



September 15, 1998

Ms. Blanca Bayo
Director of Records and Reporting
Florida Public Service Commission
Capital Circle Office Center
2540 Shumard Oak Blvd.
Tallahassee, Florida 32399-0850

98 SEP 17 AM 10:30
MAIL ROOM

Re: Fossil Dismantlement Studies

981166-

Dear Ms. Bayo:

Florida Power & Light Company (FPL) respectfully submits an original and fifteen copies of its comprehensive fossil dismantlement studies in accordance with Florida Public Service Commission (FPSC) Order No. 24741 that established the criteria for fossil dismantlement studies, and FPSC Order No. PSC-98-0027-FOF-EI, which among other things required FPL to file new studies by October 1, 1998. In addition, these fossil dismantlement studies include estimates of material and supplies inventories that will remain when the units are retired. The inventories are unique to the plant site and will have little value other than scrap value when the sites are dismantled.

I have enclosed a diskette that contains the calculations of the fossil dismantlement reserve deficiencies that will be collected pursuant to FPSC Order No. PSC-98-0027-FOF-EI and the annual expense accruals. In addition, I have attached two summaries showing (1) the reserve deficiency by site and (2) the annual fossil dismantlement expense accruals by site assuming the reserve deficiencies are collected. FPL requests that the FPSC approve these revised fossil dismantlement expense accruals effective January 1, 1999.

The names and addresses of the people authorized to receive notices and communications with respect to this filing are:

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Florida Power & Light Company
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Matthew M. Childs, P. A.
Steel Hector & Davis LLP
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Suite 601
Tallahassee, Florida 32301

If you have any questions regarding this filing please call me at 305-552-4790.

Sincerely;

Donald L. Babka
Director of Regulatory and Tax Accounting

cc: Patricia S. Lee, FPSC
W. G. Walker, III
Matthew M. Childs, P. A.

DOCUMENT NUMBER-DATE

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FPSC-RECORDS/REPORTING

an FPL Group Company

Florida Power & Light Company
 Fossil Dismantlement
 Current and Proposed Annual Accrual

	Current Annual Accrual (1)	Proposed Annual Accrual Based on Estimated Actual Reserves	Increase (Decrease) Annual Accrual	Proposed Annual Accrual Based on Theoretical Reserves (2)	Increase (Decrease) Annual Accrual
Steam Production					
Cutler	\$ 277,892	\$ 801,152	\$ 523,260	\$ 435,401	\$ 157,509
Port Everglades	2,234,289	2,596,605	362,316	1,899,924	(334,365)
Palatka	-	-	-	-	-
Ft Myers	1,748,233	3,620,267	1,872,034	1,227,520	(520,713)
Cape Canaveral	952,728	710,270	(242,458)	745,579	(207,149)
Riviera	905,038	2,196,684	1,291,646	981,976	76,938
Manatee	1,487,314	2,078,269	590,955	1,911,393	424,079
Sanford	1,905,504	2,594,244	688,740	1,634,065	(271,439)
Turkey Point	1,428,657	2,148,447	719,790	1,454,075	25,418
Martin 1&2	2,328,245	2,527,412	199,167	2,324,163	(4,082)
SJRPP	598,872	757,271	158,399	900,214	301,342
Scherer	<u>985,485</u>	<u>1,339,780</u>	<u>354,295</u>	<u>1,247,672</u>	<u>262,187</u>
Total Steam Production	<u>\$14,852,257</u>	<u>\$ 21,370,402</u>	<u>\$6,518,145</u>	<u>\$ 14,761,981</u>	<u>\$ (90,276)</u>
Other Production					
Ft Lauderdale	\$ 919,652	\$ 1,171,747	\$ 252,095	\$ 1,127,544	\$ 207,892
Putnam	420,865	752,968	332,103	522,435	101,570
Martin 3&4	636,869	725,670	88,801	733,088	96,219
Port Everglades GTs	13,448	49,053	35,605	34,028	20,580
Ft. Lauderdale GTs	16,415	26,902	10,487	22,863	6,448
Ft. Myers GTs	<u>102,600</u>	<u>187,017</u>	<u>84,417</u>	<u>159,242</u>	<u>56,642</u>
Total Other Production	<u>\$ 2,109,849</u>	<u>\$ 2,913,357</u>	<u>\$ 803,508</u>	<u>\$ 2,599,200</u>	<u>\$ 489,351</u>
Total	<u>\$16,962,106</u>	<u>\$ 24,283,759</u>	<u>\$7,321,653</u>	<u>\$ 17,361,181</u>	<u>\$ 399,075</u>

(1) Order No. PSC-95-1532-FOF-EI

(2) FPL is requesting that these revised annual expense accruals be effective January 1, 1999.

Florida Power & Light Company
 Fossil Dismantlement Theoretical Reserves
 and estimated Reserves at December 31, 1998

	Theoretical Reserves	Estimated Reserves	(Excess) Deficiency
Steam Production			
Cutler	\$ 7,696,377	\$ 5,808,799	\$ 1,887,578
Port Everglades	29,011,920	24,454,523	4,557,397
Palatka	-	5,765,660	(5,765,660)
Ft Myers	19,637,953	12,459,712	7,178,241
Cape Canaveral	10,550,543	10,830,889	(280,346)
Riviera	16,116,358	10,226,413	5,889,945
Manatee	24,395,247	21,427,179	2,968,068
Sanford	24,330,578	16,708,770	7,621,808
Turkey Point	20,372,473	12,656,277	7,716,196
Martin 1&2	28,784,913	24,108,930	4,675,983
Riviera Unit 2	1,936,013	-	1,936,013
Sanford 1 & 2	503,486	-	503,486
SJRPP	7,767,997	15,572,153	(7,804,156)
Scherer	<u>9,191,728</u>	<u>6,306,906</u>	<u>2,884,822</u>
Total Steam Production	<u>\$ 200,295,585</u>	<u>\$ 166,326,211</u>	<u>\$ 33,969,374</u>
Other Production			
Ft Lauderdale	\$ 4,951,751	\$ 3,672,910	\$ 1,278,841
Putnam	6,630,947	3,975,193	2,655,754
Martin 3&4	2,561,464	2,798,907	(237,443)
Port Everglades GTs	432,060	275,618	156,442
Ft. Lauderdale GTs	289,139	247,122	42,017
Ft. Myers GTs	<u>2,037,495</u>	<u>1,751,654</u>	<u>285,841</u>
Total Other Production	<u>\$ 16,902,855</u>	<u>\$ 12,721,404</u>	<u>\$ 4,181,451</u>
Total	<u>\$ 217,198,440</u>	<u>\$ 179,047,615</u>	<u>\$ 38,150,825</u>

Florida Power & Light Company

Fossil Dismantlement Studies

Cape Canaveral
Cutler
Fort Lauderdale
Fort Myers
Manatee
Martin
Port Everglades

Putnam
Riviera
Sanford
Scherer Unit 4
St. Johns River
Turkey Point

CAPE CANAVERAL PLANT

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Cape Canaveral Plant

The Cape Canaveral Plant is located on an 81.6-acre site in Brevard County on the west bank of the Indian River. This site is approximately 8 miles north of the city of Cocoa, Florida. There are two generating units, a switchyard, and related facilities for a commercial generating station. The original Bechtel Corporation plant design for Units No. 1 and 2 was for oil-fired operation with provisions for future conversion to natural gas or coal. The units have a once through cooling system using the Indian River for both intake and discharge. The two units have a combined nameplate rating of 804 megawatts. Units No. 1 and 2 went into commercial operation during 1965 and 1969, respectively.

The units are normally fueled by natural gas, but alternatively can be operated by #6 heavy oil. Fuel oil is provided primarily through pipeline, but can also be fed from barges or ships via the Indian River. Florida Gas Transmission is connected to the Metering Station on the site providing fuel gas. Emission control is effected through mechanical collectors and through use of low sulfur fuel.

Florida Power & Light Company last requested and received approval for dismantlement accruals for the Cape Canaveral Units in docket No. 941343-EI, Order No. PSC-95-1532-FOF-EI, issued on December 12, 1995. The accruals became effective as of January 1, 1995.

SUMMARY OF DISMANTLEMENT COSTS

FERC Account	Description	Removal Cost (A)	Disposal Cost (B)	Salvage Value (C)	Total (D)=(A + B - C)
<u>Cape Canaveral Common</u>					
<u>Production Plant</u>					
311	Structures and Improvements	274,908	972,523	142,608	1,104,824
312	Boiler Plant Equipment	0	0	0	0
314	Turbogenerator Units	0	0	0	0
315	Accessory Electrical Equipment	4,715	0	3,006	1,709
316	Miscellaneous Equipment	0	0	0	0
	Subtotal	279,623	972,523	145,614	1,106,533
<u>Transmission Plant</u>					
353	Substation Equipment	328,271	86,738	191,929	223,081
<u>Other Site Costs:</u>					
	Site Mangement Expenses	572,832			572,832
	Intake & Discharge Backfill	56,042			56,042
	Grading & Seeding	1,653,412			1,653,412
	Subtotal	2,282,286	0	0	2,282,286
	Total Common excluding M&S	2,890,180	1,059,261	337,542	3,611,899
	Contingency - 16%	462,429	169,482		631,911
	Total Cape Canaveral Common	3,352,609	1,228,743	337,542	4,243,810
	Unusable M&S Inventory	541,589	0	81,238	460,351
	Total Common Including Unusable M&S	3,894,198	1,228,743	418,781	4,704,160
<u>Cape Canaveral Unit 1</u>					
311	Structures and Improvements	752,408	343,781	132,699	963,490
312	Boiler Plant Equipment	1,516,283	246,750	409,121	1,353,913
314	Turbogenerator Units	515,971	99,698	181,920	433,749
315	Accessory Electrical Equipment	203,768	58,497	180,346	81,919
316	Miscellaneous Equipment	33,342	0	9,043	24,299
	Subtotal	3,021,772	748,726	913,128	2,857,370
	Contingency - 16%	483,484	119,796		603,280
	Total Cape Canaveral Unit 1	3,505,256	868,522	913,128	3,460,650
<u>Cape Canaveral Unit 2</u>					
311	Structures and Improvements	603,970	337,019	90,421	850,568
312	Boiler Plant Equipment	1,366,258	232,035	367,699	1,230,595
314	Turbogenerator Units	527,954	98,084	180,955	445,084
315	Accessory Electrical Equipment	201,906	54,126	185,899	70,133
316	Miscellaneous Equipment	1,881	0	323	1,558
	Subtotal	2,701,969	721,264	825,296	2,597,937
	Contingency - 16%	432,315	115,402		547,717
	Total Cape Canaveral Unit 2	3,134,284	836,666	825,296	3,145,654
	Total Dismantlement Costs	10,533,738	2,933,931	2,157,204	11,310,465

**CAPE CANAVERAL
DISMANTLEMENT COST FOR INFLATION PROJECTION**

Description	Labor (A)	Material & Equipment (B)	Burial (C)	Salvage (D)	Total (A) + (B) + (C) - (D)
Cape Canaveral Common	2,011,565	1,882,633	1,228,743	418,781	4,704,160
Cape Canaveral Unit 1	2,103,154	1,402,102	868,522	913,128	3,460,650
Cape Canaveral Unit 2	1,880,570	1,253,714	836,666	825,296	3,145,654
Total	5,995,289	4,538,449	2,933,931	2,157,204	11,310,465

Labor is 60% of Removal Cost from Summary of Dismantlement Costs.
 Material & Equipment is 40% of Removal Cost from Summary of Dismantlement Costs.
 Burial is 100% of Disposal Cost from Summary of Dismantlement Costs.
 Salvage is 100% of Salvage from Summary of Dismantlement Costs.

CAPE CANAVERAL DISMANTLEMENT ASSUMPTIONS

FPL will provide management personnel for the dismantlement effort.

FPL will prepare the request for proposal package and solicit bids for the decommissioning effort.

FPL will provide site security during the dismantlement.

FPL will hire a demolition contractor to perform the actual dismantling work. This contractor will have the salvage rights to all plant equipment and structural material.

The land will be made available for future use.

All dismantling work will be done in accordance with OSHA regulations.

The fuel oil storage tanks will be cleaned and their contents disposed of according to the requirements of current regulations.

The following items will be removed:

- a. All structures, equipment, and concrete pads, pedestals, foundations, etc.;
- b. All underground gas, oil, sewer and water piping and electrical conduits (underground concrete piping to be collapsed);
- c. All hazardous and contaminated materials, e.g., acid filled lead batteries, oil tank residue.

Discussions with FPL's Power Generation Services Department (PGS) indicate that the return of the site to a green field condition entails removal of all structures above the wood pilings and steel-encased concrete pilings. The removal of the pilings would be unfeasible and, therefore, will remain in place.

The turbine pedestals and chimney will be control-blasted.

Scrap will be unprepared, i.e., cut only to the extent required to load the pieces on scrap dealers' trailers. Trucking costs for removal are paid by the scrap dealer and are reflected in the salvage value paid.

The estimate does not reflect land value or its resale.

The productivity factors employed are assumed valid for purposes of this study.

A contingency of 16% has been applied to the total removal and disposal costs. The contingency percentage covers costs associated with delays occurring after dismantlement begins due to such causes as equipment failure and weather delays.

The costs of such overhead items as project management, site security, etc., have been estimated by FPL's PGS Department. These costs are listed on the cost summary pages for each site's dismantlement study.

All materials and equipment are assumed to be either fully salvageable or to be disposed of completely. The availability of powerful cutting shears makes possible the cutting of even the heaviest steel to a size that permits salvage as scrap. Any unusable materials and supplies inventory will be sold as scrap. Estimated balances of such inventory (with an assumption of a 15% salvage value) have been included on the cost summary pages of this dismantlement study.

A 30% swell factor is used to compute the disposal cost per cubic yard of concrete. One cubic yard of concrete becomes 1.3 cubic yards of concrete rubble after demolition.

The switchyard and ancillary equipment (FERC account 353) will remain in place with the exception of the main power transformers, oil circuit breakers, superstructures, and foundations associated with the tie-in of plant generated power in the switchyard.

The turbine pedestals and chimneys will be control-blasted.

Transformer and circuit breaker insulating oils are assumed not to contain PCB's. Therefore, the transformers and oil circuit breakers will be salvageable.

It is assumed that dismantlement activity at Cutler will begin five years after end of service. The end of service dates used for this assumption conform to the economic recovery period ending dates used in the Cutler depreciation study filed as of year end 1997.

Though some asbestos abatement activity has occurred at Cutler, significant amounts of asbestos remain and can be expected to require abatement at final dismantlement. FPL's PGS Department has estimated the cost of asbestos removal at \$1,250 per yard and disposal at \$100 per cubic yard. This estimate is based on recent FPL experience.

DISMANTLING ACTIVITIES: OIL & GAS & OTHER PRODUCTION PLANTS

- Remove loose equipment, furniture, and spare parts.
- Drain liquids, drum-up, and dispose of drums.
- Remove hazardous materials; i.e., leads (alkaline), acids, solvents, lubricants, oils, chemicals, and gasses.
- Strip all insulation and covering, package and remove to acceptable landfill.
- Collapse circulating water lines and backfill trenches.
- Remove main steam, hot and cold piping, downcomers, valves, and supports, pumps, motors, generator auxiliary equipment, feedwater heaters, soot blowers, and condensers.
- Remove intake and discharge structures, equipment pumps, piping and valves.
- Remove systems that must be completed prior to the start of the boiler removal including lube oil pumps, all piping, instrument and electrical systems.
- Remove forced drafts and induced draft ductwork, air heaters and fans.
- Remove hoppers, burners, upper and lower headers, manways, and waterwalls.
- Remove heavy steel structures and above ground steel – precut key members, lower and cut at ground level.
- Disassemble crane, boiler feed pumps, and turbine generator.
- Separate scrap metals, and remove to scrap yard.
- Remove and dispose of miscellaneous rubble.
- Remove turbine pedestal, foundation, and heavy concrete structures and building, stack foundations, equipment foundations, substructures, support buildings and stacks. Remove to landfill.
- Cut off piles and remove pile caps. Remove concrete encased duct banks and underground piping.
- Remove septic tank and backfill.
- Remove underground storage tanks.
- Test and remove contaminated soil/bases – all areas.
- Install environmental monitoring equipment such as wells.
- Remove or improve remaining site facilities such as buildings, fences, parking areas in accordance with local code and regulations.
- Install/modify existing site storm water runoff system.

DISMANTLING ACTIVITIES: OIL & GAS AND OTHER PRODUCTION PLANTS
(Continued)

- Remove switchyard electrical equipment, structures, and foundations. Modify services to remaining occupied structures as required.
- Remove gas supply metering site, valve stations, underground distribution system.
- Backfill, site grading, seeding, mulching.
- Remove solid and liquid wastes from waste treatment processing areas – landfilled material, precipitated material in ponds and tanks, contaminated resins and reactants.
- Remove marine facilities such as fuel unloading docks, equipment, bridges, and dams.
- Cut and remove fuel oil tanks, piping, valves, and supports.
- Remove top soil/gravel, backfill, and remove barrier wall foundation.

DEVELOPMENT OF COST FACTORS

Cost factors have been developed to compute the net salvage value of the demolition of the Cape Canaveral Plant. The net salvage value of the demolition is the net of: the removal and disposal cost and the salvage value of equipment and steel not disposed of. These factors provide a unit cost or value for removal, disposal and salvage of a given unit of measure of component materials of which a power plant is constructed. The assumption is that the cost or value per unit of a given component can be multiplied by the quantity of that component in the plant to calculate a total cost or value for removal, disposal, or salvage of that component.

REMOVAL COST FACTORS

The removal cost factors developed for this study have two elements: a burdened labor rate and productivity factor. The burdened labor rate multiplied by the productivity factor yields the removal cost factor. The labor rates used in this study were developed by FPL's Power Generation Services Department (PGS). The crew rate per man-hour is for a crew consisting of six journeymen laborers, one laborer foreman and one heavy equipment operator - a typical crew for demolition work. The rate includes the cost per man-hour of a Trojan 3500Z front end loader with a four yard bucket, and an American 9310, two hundred twenty-five ton crane with a two hundred foot boom. The productivity factors employed, e.g., the number of man-hours required to remove a given unit of measure of concrete, were developed by an engineering consulting firm. These factors are assumed valid for purposes of this study.

Labor Rate

Labor rates are based on Means Union wages for 1998. The rates are adjusted to reflect non-union crews and factored to the geographical area of the site. Wage rates are based on a 40 hour week.

Labor	\$24.69	X	6	=	\$148.13
Foreman	\$31.72	X	1	=	\$31.72
Heavy Equipment Operator	\$29.57	X	1	=	\$29.57
Total Cost per hour of 8 man crew					<u>\$209.42</u>
Cost per man hour			\$209.42 / 8	=	<u>\$26.18</u>

Equipment Rate

The equipment rate is based on the following equipment:

Excavator					14,968.30
Front End Loader					5,092.50
Cutting Equipment					<u>200.00</u>
Total per month					<u>20,260.80</u>
20,260.80	/	176	hours per month =		115.12
Cost per man hour			\$115.12 / 8	=	\$14.39
Plus: amount for small tools					0.80
Total Cost per man hour					<u>\$15.19</u>

Equipment & Labor Summary

Labor	\$26.18
Equipment	15.19
Total	<u>\$41.37</u>
Rounded	<u>\$41.00</u>
For Concrete demolition add \$4.00 per hour additional equipment charge.	<u>\$45.00</u>

The Removal Cost Factor is the product of the productivity factor for removal of a particular component multiplied by the total burdened hourly labor rate. The removal cost factors all materials to be removed from FPL's sites are as follows:

<u>Components</u>	<u>Hourly Rate</u>	<u>Productivity Factor</u>	<u>Removal Factor</u>
Extra Heavy Steel (1)	\$41.00	2.50 MH / Ton	\$102.50 / Ton
Heavy Steel (2)	\$41.00	3.30 MH / Ton	\$135.30 / Ton
General Steel	\$41.00	4.40 MH / Ton	\$180.40 / Ton
Light Steel	\$41.00	7.10 MH / Ton	\$291.10 / Ton
Concrete	\$45.00	0.48 MH / CY	\$21.60 / CY
Reinforced Concrete	\$45.00	1.20 MH / CY	\$54.00 / CY
Copper-Elect. Cable & Generator Leads & Copper - Generator	\$41.00	12.00 MH / Ton	\$492.00 / Ton
Copper - Transformer			\$400.00 / Ton
			\$300.00 / Ton
General Insulation	\$41.00	1.00 MH / CY	\$41.00 / CY
Inground Pipe-Metal(3)	\$41.00	6.00 MH / Ton	\$246.00 / Ton
Concrete Pipe (collapsed)	\$45.00	4.60 MH / Ton	\$207.00 / Ton

(1) Includes turbine generator.

(2) Includes parts of the steam generator, pipe larger than 8 inches.

(3) Includes cost to backfill the trenches.

DISPOSAL COST FACTORS

Three cost factors were developed to compute the cost of disposal of non-hazardous wastes at the Brevard County Landfill. Concrete and calcium silicated insulation are non-hazardous wastes. The tipping fee of \$24/ton and the dumpster charge of \$130 per haul for a 20 cubic cubic yard dumpster (\$160 per haul for a 40 cubic yard dumpster) were provided by USA Waste Inc. (formerly Western Waste).

Cost factors were also developed to compute the cost of removal and disposal of oil tanks, including the cost of related soil remediation. Such costs are computed for each tank in FPL's system and are located appropriately in the detailed spreadsheets.

Concrete

One cubic yard of concrete in place weighs 3,950 pounds. One cubic yard becomes 1.3 cubic yards after demolition. Each load will contain 15.38 cubic yards (20 cu. yds./1.3) of in place concrete. 15.38 cubic yards weighs 61,000 pounds or 30.50 tons.

Truck Cost	\$130.00 / haul	X	1 haul	=	130.00
Tipping Fees	\$24.00 / ton	X	30.5 tons	=	732.00
Total Cost per round Trip					<u>862.00</u>
Cost per Cubic Yard	\$862.00 / 15.38 cubic yards =				\$56.05
Plus 10% contractor profit					5.60
Total Cost per Cubic Yard					<u>\$61.65</u>
Rounded Cost per Cubic Yard					<u>\$62.00</u>

Insulation - Calcium Silicate (Non-Hazardous)

A trailer with a 40 cubic yard capacity is used for insulation because of its lighter weight. For purposes of this computation the dumpster is assumed to be 90% full (although the tipping fee is based on the assumption of 100% full truck - i.e., the weight to volume conversion uses 40 cubic yards - the full volume of the dumpster). A cubic yard of calcium silicate insulation weighs 121.5 pounds or .060750 tons. 40 cubic yards times .060750 tons/cubic yard = 2.43 tons.

Truck Cost	\$160.00 / haul	X	1 haul	=	\$160.00
Tipping Fees	\$24.00 / ton	X	2.43 tons	=	58.32
Total Cost per round Trip					<u>218.32</u>
Cost per Cubic Yard	\$218.32 / 36 cubic yards =				\$6.06
Plus 10% contractor profit					0.61
Total Cost per Cubic Yard					<u>\$6.67</u>
Rounded Cost per Cubic Yard					<u>\$7.00</u>

SALVAGE VALUE FACTORS

The salvage value factors, presented in dollars per ton, were provided by FPL's Investment Recovery Department. The list covers all salvageable materials recovered from FPL sites.

Iron & Steel	\$50 / ton
Stainless Steel	\$300 / ton
Aluminum (Sheet Metal)	\$540 / ton
Wire & Cable:	
- Insulated Copper	\$760 / ton
- Insulated Aluminum	\$600 / ton
Copper	\$710 / ton
Nickel Alloys	
- 70/30 Cupro-Nickel	\$1,490 / ton
- 80/20 Cupro-Nickel	\$1,250 / ton
- Monel	\$2,340 / ton
Admiralty Brass	\$540 / ton
Aluminum Brass	\$140 / ton
Titanium	\$1,320 / ton

OTHER SITE COSTS

Site Management Expenses

Site management expenses refer to FPL's management costs and contractors' expenses associated with the dismantlement project. The cost factors provided by FPL's Power Generation Services Department are: \$13,901 per month for owners' expenses, both office and site, and \$17,923 per month for site indirect costs (contractors' expenses). These expenses are assumed to be incurred over the 18 month dismantlement period assumed for the Cape Canaveral plant. FPL's management costs include administration, engineering, permit costs and various other costs. Contractors' expenses include field management, supervision, security and other costs.

Site Management Expenses per month	\$31,824
Number of months	18
Total Site Management Expenses	<u>\$572,832</u>

Intake & Discharge Backfill

Power Generation Services developed this cost factor on the basis of a typical such structure for FPL's production plants. The assumption is that a volume of 1,600 cubic yards for the intake and 1,120 cubic yards for the discharge will need to be filled. The cost for the intake is \$28,021 the cost for the discharge is \$22,237. Cape Canaveral has 2 Intakes and no Discharges, producing back-fill costs as follows:

	<u>Cost/Structure</u>	<u>Quantity</u>	<u>Totals</u>
Intake	\$28,021	2	\$56,042
Discharge	\$22,237	0	\$0
			<u>\$56,042</u>

Grading and Seeding

This cost refers to the restoration of the dismantled area to a green field area. The land is filled with sand, spread with topsoil and then seeded. The cost factor provided by PGS is \$40,229 per acre. The acreage was determined for each site by reviewing engineering drawings to determine the areas requiring this effort. Assumptions underlying this cost factor include 2,000 cubic yards per acre to be backfilled and 968 cubic yards per acre of topsoil to be spread and seeded.

Cape Canaveral Acreage to be graded and seeded	41.10
Cost Factor	<u>\$40,229</u>
Total Grading and Seeding Expense	<u><u>\$1,653,412</u></u>

CAPE CANAVERAL DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure Per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost Per Item	Disposal Cost per Unit of Measure	Total Disposal Cost Per Item	Salvage Value per Unit of Measure	Realizable Salvage Value per Item
CAPE CANAVERAL COMMON										
FERC Account 311										
Dock	CY	1	180.00	180.00	21.60	3,888	62.00	11,160	0.00	0
Hose Handling Structure	TN	1	1.37	1.37	291.10	399	0.00	0	50.00	69
Fuel Oil Storage Tank (268,000 bbl)	TN	3	802.00	2,406.00	n/a	112,500	0.00	0	50.00	120,300
Cleaning Fuel Oil Storage Tanks					n/a	0	n/a	509,889	0.00	0
Remove Sand Base - Fuel Oil Storage Tanks					n/a	0	n/a	254,226	0.00	0
Light Oil Tank					n/a	5,000	0.00	0	0.00	0
Cleaning Light Oil Tank					n/a	n/a	n/a	4,480	n/a	0
Soil Remediation - Light Oil Tank					n/a	n/a	n/a	2,262	n/a	0
Demolition of Concrete Foundation					n/a	5,513	n/a	0	n/a	0
Water Treatment Area Slab	CY	1	267.00	267.00	54.00	14,418	62.00	16,554	0.00	0
Water Treatment Equipment	TN	1	54.00	54.00	180.40	9,742	0.00	0	50.00	2,700
Railroad	TN	1	193.72	193.72	135.30	26,210	0.00	0	50.00	9,686
Concrete Pavement	CY	1	2,800.00	2,800.00	21.60	60,480	62.00	173,600	0.00	0
Septic Tank	CY	1	5.68	5.68	54.00	307	62.00	352	0.00	0
Sewer System	TN	1	8.15	8.15	291.10	2,372	0.00	0	50.00	408
Service Water Tank - Elevated (100,000 g)	TN	1	135.09	135.09	180.40	24,370	0.00	0	50.00	6,755
Service Water Tank (100,000 g)	TN	1	16.22	16.22	180.40	2,926	0.00	0	50.00	811
Elevator	TN	1	37.60	37.60	180.40	6,783	0.00	0	50.00	1,880
Total Account 311						274,908		972,523		142,608
FERC Account 315										
Startup Transformer	TN	1	9.00	9.00	291.10	2,620	0.00	0	50.00	450
Transformer Copper	TN	1	3.60	3.60	300.00	1,080	0.00	0	710.00	2,556
Storage Batteries & Equipment	TN	1	7.50	7.50	135.30	1,015	0.00	0	0.00	0
Total Account 315						4,715		0		3,006
FERC Account 353										
Lightning & Surge Protection Equipment	TN	6	0.25	1.50	180.40	271	0.00	0	50.00	75
Total Account 353						271		0		75
TOTAL CAPE CANAVERAL COMMON						279,894		972,523		145,689
CAPE CANAVERAL UNIT 1										
FERC Account 311										
Improvements to Site										
Manholes and Catch Basins	CY	1	10.15	10.15	21.60	219	62.00	629	0.00	0
Subtotal						219		629		0
Circulating and Service Water System										
Piping	TN	1	476.70	476.70	180.40	85,997	0.00	0	50.00	23,835
Intake Cooling Water Pumps	TN	2	100.80	201.60	180.40	36,369	0.00	0	50.00	10,080
Intake Structure - Concrete	CY	1	1,046.00	1,046.00	54.00	56,484	62.00	64,852	0.00	0
Intake & Discharge Structure - Conduit	TN	1	854.00	854.00	180.40	154,062	0.00	0	50.00	42,700
Wingwalls and Skimmer Walls	CY	1	28.00	28.00	54.00	1,512	62.00	1,736	0.00	0
Superstructure	TN	1	37.00	37.00	135.30	5,006	0.00	0	50.00	1,850
Discharge Structure - Concrete	CY	1	320.00	320.00	54.00	17,280	62.00	19,840	0.00	0
Grills, Screens and Hoists	TN	2	14.10	28.20	180.40	5,087	0.00	0	50.00	1,410
Subtotal						361,796		86,428		79,875
Station Structures										
Concrete Pedestal Mat	CY	1	1,152.00	1,152.00	54.00	62,208	62.00	71,424	0.00	0
Structural Steel	TN	1	322.00	322.00	135.30	43,567	0.00	0	50.00	16,100
Miscellaneous Steel	TN	1	147.80	147.80	180.40	26,663	0.00	0	50.00	7,390
Floors - Concrete	CY	1	1,408.00	1,408.00	54.00	76,032	62.00	87,296	0.00	0
Platforms and Stairs	TN	1	35.00	35.00	180.40	6,314	0.00	0	50.00	1,750

CAPE CANAVERAL DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure Per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost Per Item	Disposal Cost per Unit of Measure	Total Disposal Cost Per Item	Salvage Value per Unit of Measure	Realizable Salvage Value per Item
Concrete Roof Slabs	CY	1	133.00	133.00	54.00	7,182	62.00	8,246	0.00	0
Cranes and Hoists	TN	1	123.00	123.00	180.40	22,189	0.00	0	50.00	6,150
Concrete Footings, Piers and Grade Beams	CY	1	1,061.00	1,061.00	54.00	57,294	62.00	65,782	0.00	0
Subtotal						301,449		232,748		31,390
Fuel & Ash Structures										
Ash Water Pumps	TN	2	0.31	0.62	54.00	33	0.00	0	50.00	31
Ash Disposal Lines	CY	1	10.70	10.70	21.60	231	62.00	663	0.00	0
Concrete	CY	1	103.00	103.00	54.00	5,562	62.00	6,386	0.00	0
Fuel Oil Transfer Pumps	TN	2	1.23	2.46	180.40	444	0.00	0	50.00	123
Fuel Oil Storage Tank Heater	TN	3	10.35	31.05	180.40	5,601	0.00	0	50.00	1,553
Fuel Oil Piping	TN	1	394.54	394.54	180.40	71,175	0.00	0	50.00	19,727
Fuel Oil Piping Supports	CY	1	273.00	273.00	21.60	5,897	62.00	16,926	0.00	0
Subtotal						88,944		23,975		21,434
Total Account 311						752,408		343,781		132,699
FERC Account 312										
Boiler Plant Equipment										
Fuel Oil Equipment										
Fuel Oil Metering Tank (12,000 bbl)	TN	1	50.60	50.60	n/a	12,500	0.00	0	50.00	2,530
Cleaning Fuel Oil Metering Tank					n/a	0	n/a	13,000	n/a	0
Fuel Oil Metering Tank Foundation					n/a	6,143	n/a	0	n/a	0
Fuel Oil Metering Tank - Soil Remediation					n/a	0	n/a	2,520	n/a	0
Burner Pumps	TN	7	1.50	10.50	180.40	1,894	0.00	0	50.00	525
Concrete Foundations and Firewalls	CY	1	929.00	929.00	54.00	50,166	62.00	57,598	0.00	0
Forced Draft Fans and Motors	TN	2	38.50	77.00	135.30	10,418	0.00	0	50.00	3,850
Forced Draft Fan Air Ducts	TN	1	82.00	82.00	180.40	14,793	0.00	0	50.00	4,100
Insulation for FD Fan Air Ducts	CY	1	450.00	450.00	41.00	18,450	7.00	3,150	0.00	0
Fuel Oil Pumps	TN	5	8.05	40.25	180.40	7,261	0.00	0	50.00	2,013
Fuel Oil Heaters	TN	30	13.20	396.00	180.40	71,438	0.00	0	50.00	19,800
Subtotal						193,064		76,268		32,818
Boiler Equipment										
Boiler Frame and Platforms	TN	1	1,465.00	1,465.00	135.30	198,215	0.00	0	50.00	73,250
Concrete	CY	1	19.00	19.00	54.00	1,026	62.00	1,178	0.00	0
Boiler - including:	TN	1	3,554.00	3,554.00	135.30	480,856	0.00	0	50.00	177,700
Drum										
Waterwall, Downcomers & Tubes										
Piping, Valves & Silencers										
Radiant & Convection Superheaters										
Reheater										
Economizer										
Sootblowers										
Insulation	CY	1	1,760.00	1,760.00	41.00	72,160	7.00	12,320	0.00	0
Insulation - Asbestos	CY	0	0.00	0.00	1,250.00	0	100.00	0	0.00	0
Air Preheater	TN	2	270.00	540.00	135.30	73,062	0.00	0	50.00	27,000
Subtotal						825,319		13,498		277,950
Boiler Plant Auxiliaries										
L.P. Feedwater Heater #1	TN	1	21.10	21.10	180.40	3,806	0.00	0	50.00	1,055
L.P. Feedwater Heater #2	TN	1	15.30	15.30	180.40	2,760	0.00	0	50.00	765
L.P. Feedwater Heater #3	TN	1	11.85	11.85	180.40	2,138	0.00	0	50.00	593
L.P. Feedwater Heater #4	TN	1	15.10	15.10	180.40	2,724	0.00	0	50.00	755
L.P. Feedwater Heater #5	TN	1	17.85	17.85	180.40	3,220	0.00	0	50.00	893
H.P. Feedwater Heater #6	TN	1	50.95	50.95	135.30	6,894	0.00	0	50.00	2,548
H.P. Feedwater Heater #7	TN	1	67.45	67.45	135.30	9,126	0.00	0	50.00	3,373

CAPE CANAVERAL DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure Per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost Per Item	Disposal Cost per Unit of Measure	Total Disposal Cost Per Item	Salvage Value per Unit of Measure	Realizable Salvage Value per Item
Boiler Feed Pumps (including motors)	TN	2	27.00	54.00	180.40	9,742	0.00	0	50.00	2,700
Condensate Storage Tank (150,000 gl)	TN	1	41.25	41.25	180.40	7,442	0.00	0	50.00	2,063
Condensate Storage Tank Foundation	CY	1	105.00	105.00	54.00	5,670	62.00	6,510	0.00	0
Condensate Recovery Tank (2,900 gl)	TN	1	2.00	2.00	180.40	361	0.00	0	50.00	100
Condensate Recovery Flash Tank (515 gl)	TN	1	0.50	0.50	180.40	90	0.00	0	50.00	25
Condensate Recovery Pump	TN	1	0.09	0.09	180.40	16	0.00	0	50.00	5
Boiler Fill Pump	TN	1	0.18	0.18	180.40	32	0.00	0	50.00	9
Heater Drain Pump	TN	1	0.65	0.65	180.40	117	0.00	0	50.00	33
Blow Down Tank (1,700 gl)	TN	1	1.00	1.00	180.40	180	0.00	0	50.00	50
Subtotal						54,318		6,510		14,964
Boiler Plant Piping										
Main Steam Piping	TN	1	115.07	115.07	180.40	20,759	0.00	0	50.00	5,754
Hot Reheat Piping	TN	1	78.43	78.43	180.40	14,149	0.00	0	50.00	3,922
Cold Reheat Piping	TN	1	87.48	87.48	180.40	15,781	0.00	0	50.00	4,374
Extraction Steam Piping	TN	1	36.83	36.83	180.40	6,644	0.00	0	50.00	1,842
Boiler Feed Piping	TN	1	118.56	118.56	180.40	21,388	0.00	0	50.00	5,928
Air Evacuation Piping	TN	1	21.86	21.86	180.40	3,944	0.00	0	50.00	1,093
Saturated Auxiliary Steam Piping	TN	1	131.21	131.21	180.40	23,670	0.00	0	50.00	6,561
Service & Cooling Water Piping	TN	1	69.12	69.12	180.40	12,469	0.00	0	50.00	3,456
Instrument, Sampling & Control Piping	TN	1	317.45	317.45	180.40	57,268	0.00	0	50.00	15,873
Condensate Piping	TN	1	186.79	186.79	180.40	33,697	0.00	0	50.00	9,340
Subtotal						209,769		0		58,140
Induced Draft Equipment										
Stack Breeching	TN	1	110.00	110.00	135.30	14,883	0.00	0	50.00	5,500
Stack	CY	1	1,625.00	1,625.00	54.00	87,750	62.00	100,750	0.00	0
Dust Collectors	TN	1	174.00	174.00	135.30	23,542	0.00	0	50.00	8,700
Concrete Stack Foundation	CY	1	802.00	802.00	54.00	43,308	62.00	49,724	0.00	0
Subtotal						169,483		150,474		14,200
Miscellaneous Steel & Equipment	TN	1	220.99	220.99	291.10	64,330	0.00	0	50.00	11,050
Total Account 312						1,516,283		246,750		409,121
FERC Account 314										
Turbo-Generator Units										
Pedestal Concrete	CY	1	1,529.00	1,529.00	54.00	82,566	62.00	94,798	0.00	0
Inserts & Anchor Bolts	TN	1	8.62	8.62	180.40	1,555	0.00	0	50.00	431
Turbo-Generator Unit	TN	1	648.00	648.00	87.50	56,700	0.00	0	50.00	32,400
Turbine Piping	TN	1	260.00	260.00	180.40	46,904	0.00	0	50.00	13,000
Turbine Insulation	CY	1	700.00	700.00	41.00	28,700	7.00	4,900	0.00	0
Turbine Generator Copper	TN	1	58.50	58.50	400.00	23,400	0.00	0	710.00	41,535
Reinforcing Steel	TN	1	135.50	135.50	291.10	39,444	0.00	0	50.00	6,775
Subtotal						279,269		99,698		94,141
Condensers and Auxiliaries										
Condenser Shell	TN	1	867.50	867.50	135.30	117,373	0.00	0	50.00	43,375
Condenser - Aluminum-Brass Tubes	TN	1	224.50	224.50	291.10	65,352	0.00	0	140.00	31,430
Circulating Water Pumps and Motors	TN	2	70.54	141.08	180.40	25,451	0.00	0	50.00	7,054
Condensate Pumps and Motors	TN	2	15.08	30.16	180.40	5,441	0.00	0	50.00	1,508
Lube Oil Tank (1,900 gl)	TN	1	23.50	23.50	180.40	4,239	0.00	0	50.00	1,175
Subtotal						217,856		0		84,542
Miscellaneous Steel & Equipment	TN	1	64.74	64.74	291.10	18,846	0.00	0	50.00	3,237
Total Account 314						515,971		99,698		181,920

CAPE CANAVERAL DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure Per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost Per Item	Disposal Cost per Unit of Measure	Total Disposal Cost Per Item	Salvage Value per Unit of Measure	Realizable Salvage Value per Item
FERC Account 315										
Accessory Electrical Equipment										
Foundations & Structures										
Equipment Foundations - Concrete	CY	1	148.50	148.50	54.00	8,019	62.00	9,207	0.00	0
Manholes and Handholes	CY	1	92.00	92.00	21.60	1,987	62.00	5,704	0.00	0
Subtotal						10,006		14,911		0
Power and Conversion Equipment										
Auxiliary Power Transformer	TN	1	59.40	59.40	291.10	17,291	0.00	0	50.00	2,970
Station Service Transformer	TN	4	4.00	16.00	291.10	4,658	0.00	0	50.00	800
Transformer Copper	TN	1	32.08	32.08	300.00	9,624	0.00	0	710.00	22,777
Instrument Transformers	TN	8	0.60	4.80	291.10	1,397	0.00	0	50.00	240
Subtotal						32,970		0		26,787
Conduit, Insulators and Conductors										
Cable Trays	TN	1	7.88	7.88	291.10	2,294	0.00	0	50.00	394
Conduit	TN	1	68.44	68.44	180.40	12,347	0.00	0	50.00	3,422
Concrete	CY	1	703.00	703.00	54.00	37,962	62.00	43,586	0.00	0
Power Wiring	TN	1	192.03	192.03	492.00	94,479	0.00	0	760.00	145,943
Subtotal						147,081		43,586		149,759
Switching, Control and Protection Equipment										
Switchgear - 4,160v Metalclad	TN	1	40.00	40.00	180.40	7,216	0.00	0	50.00	2,000
Switchgear - 480v Metalclad	TN	2	18.00	36.00	180.40	6,494	0.00	0	50.00	1,800
Subtotal						13,710		0		3,800
Account 315 Total						203,768		58,497		180,346
FERC Account 316										
Miscellaneous Power Plant Equipment										
Compressed Air System	TN	1	6.46	6.46	291.10	1,881	0.00	0	50.00	323
Service Air Piping	TN	1	174.40	174.40	180.40	31,462	0.00	0	50.00	8,720
Total Account 316						33,342		0		9,043
FERC Account 353										
Substation Equipment										
Concrete	CY	1	985.00	985.00	54.00	53,190	62.00	61,070	0.00	0
Main Power Transformer	TN	1	130.00	130.00	291.10	37,843	0.00	0	50.00	6,500
Main Power Transformer Copper	TN	1	52.00	52.00	300.00	15,600	0.00	0	710.00	36,920
Oil Circuit Breakers	TN	8	21.13	169.04	180.40	30,495	0.00	0	50.00	8,452
Control Wiring	TN	1	23.93	23.93	492.00	11,774	0.00	0	760.00	18,187
Main Power Transformer - Foundation	CY	1	64.00	64.00	54.00	3,456	62.00	3,968	0.00	0
Oil Circuit Breakers - Foundation	CY	1	37.00	37.00	54.00	1,998	62.00	2,294	0.00	0
Steel Structures and Supports	TN	1	263.00	263.00	135.30	35,584	0.00	0	50.00	13,150
Cable Trays	TN	1	2.75	2.75	291.10	801	0.00	0	50.00	138
Bus and Copper Tubing	TN	1	12.39	12.39	492.00	6,096	0.00	0	710.00	8,797
Air Break and Disconnect Switches	TN	20	2.35	47.00	180.40	8,479	0.00	0	50.00	2,350
Total Account 353						205,314		67,332		94,493
TOTAL CAPE CANAVERAL UNIT 1						3,227,087		816,058		1,007,621
CAPE CANAVERAL UNIT 2										
FERC Account 311										
Improvements to Site										
Manholes and Catch Basins	CY	1	15.39	15.39	21.60	332	62.00	954	0.00	0
Subtotal						332		954		0

CAPE CANAVERAL DISMANTLEMENT STUDY

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<u>Circulating and Service Water System</u>										
Piping	TN	1	429.10	429.10	180.40	77,410	0.00	0	50.00	21,455
Intake Cooling Water Pumps	TN	2	2.00	4.00	180.40	722	0.00	0	50.00	200
Intake Structure - Concrete	CY	1	1,102.00	1,102.00	54.00	59,508	62.00	68,324	0.00	0
Intake & Discharge Structure - Conduit	TN	1	726.00	726.00	180.40	130,970	0.00	0	50.00	36,300
Superstructure	TN	1	35.16	35.16	135.30	4,757	0.00	0	50.00	1,758
Discharge Structure - Concrete	CY	1	327.00	327.00	54.00	17,658	62.00	20,274	0.00	0
Grills, Screens and Hoists	TN	2	14.68	29	180.40	5,297	0.00	0	50.00	1,468
Subtotal						296,321		88,598		61,181
<u>Station Structures</u>										
Concrete Pedestal Mat	CY	1	1,091.00	1,091.00	54.00	58,914	62.00	67,642	0.00	0
Structural Steel	TN	1	254.00	254.00	135.30	34,366	0.00	0	50.00	12,700
Miscellaneous Steel	TN	1	60.00	60.00	180.40	10,824	0.00	0	50.00	3,000
Floors - Concrete	CY	1	1,691.00	1,691.00	54.00	91,314	62.00	104,842	0.00	0
Platforms and Stairs	TN	1	35.00	35.00	180.40	6,314	0.00	0	50.00	1,750
Cranes and Hoists	TN	1	123.00	123.00	180.40	22,189	0.00	0	50.00	6,150
Concrete Footings, Piers and Grade Beams	CY	1	1,112.00	1,112.00	54.00	60,048	62.00	68,944	0.00	0
Subtotal						283,969		241,428		23,600
<u>Fuel & Ash Structures</u>										
Ash Water Pumps	TN	2	0.31	0.62	54.00	33	0.00	0	50.00	31
Ash Disposal Lines	CY	1	17.40	17.40	21.60	376	62.00	1,079	0.00	0
Concrete	CY	1	30.00	30.00	54.00	1,620	62.00	1,860	0.00	0
Fuel Oil Transfer Pumps	TN	1	1.23	1.23	180.40	222	0.00	0	50.00	62
Fuel Oil Storage Tank Heater	TN	2	10.35	20.70	180.40	3,734	0.00	0	50.00	1,035
Fuel Oil Piping	TN	1	90.25	90.25	180.40	16,281	0.00	0	50.00	4,513
Fuel Oil Piping Supports	CY	1	50.00	50.00	21.60	1,080	62.00	3,100	0.00	0
Subtotal						23,347		6,039		5,640
Total Account 311						603,970		337,019		90,421
<u>FERC Account 312</u>										
<u>Boiler Plant Equipment</u>										
<u>Fuel Oil Equipment</u>										
Light Oil Tank (600 bbl)	TN	1	12.28	12.28	n/a	5,000	n/a	12,255	50.00	614
Fuel Oil Metering Tank (12,000 bbl)	TN	1	50.60	50.60	n/a	12,500	n/a	0	50.00	2,530
Cleaning Fuel Oil Metering Tank					n/a	0	n/a	13,000	0.00	0
Fuel Oil Metering Tank Foundation					n/a	6,143	n/a	0	0.00	0
Fuel Oil Metering Tank - Soil Remediation					n/a	0	n/a	2,520	0.00	0
Burner Pumps	TN	6	1.50	9.00	180.40	1,624	0.00	0	50.00	450
Concrete Foundations and Firewalls	CY	1	555.00	555.00	54.00	29,970	62.00	34,410	0.00	0
Forced Draft Fans and Motors	TN	2	38.50	77.00	135.30	10,418	0.00	0	50.00	3,850
Forced Draft Fan Air Ducts	TN	1	101.00	101.00	180.40	18,220	0.00	0	50.00	5,050
Insulation for FD Fan Air Ducts	CY	1	450.00	450.00	41.00	18,450	7.00	3,150	0.00	0
Fuel Oil Pumps	TN	5	8.05	40.25	180.40	7,261	0.00	0	50.00	2,013
Fuel Oil Heaters	TN	25	11.00	275.00	180.40	49,610	0.00	0	50.00	13,750
Subtotal						159,196		65,335		28,257
<u>Boiler Equipment</u>										
Boiler Frame and Platforms	TN	1	1,471.00	1,471.00	135.30	199,026	0.00	0	50.00	73,550
Boiler - including: Drum Waterwall, Downcomers & Tubes Piping, Valves & Silencers Radiant & Convection Superheaters	TN	1	3,148.00	3,148.00	135.30	425,924	0.00	0	50.00	157,400

CAPE CANAVERAL DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure Per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost Per Item	Disposal Cost per Unit of Measure	Total Disposal Cost Per Item	Salvage Value per Unit of Measure	Realizable Salvage Value per Item
Reheater										
Economizer										
Sootblowers										
Insulation	CY	1	1,760.00	1,760.00	41.00	72,160	7.00	12,320	0.00	0
Insulation - Asbestos	CY	0	0.00	0.00	1,250.00	0	100.00	0	0.00	0
Air Preheater	TN	2	270.00	540.00	135.30	73,062	0.00	0	50.00	27,000
Subtotal						770,173		12,320		257,950
Boiler Plant Auxiliaries										
L.P. Feedwater Heater #1	TN	1	21.10	21.10	180.40	3,806	0.00	0	50.00	1,055
L.P. Feedwater Heater #2	TN	1	15.30	15.30	180.40	2,760	0.00	0	50.00	765
L.P. Feedwater Heater #3	TN	1	11.85	11.85	180.40	2,138	0.00	0	50.00	593
L.P. Feedwater Heater #4	TN	1	15.10	15.10	180.40	2,724	0.00	0	50.00	755
L.P. Feedwater Heater #5	TN	1	17.85	17.85	180.40	3,220	0.00	0	50.00	893
H.P. Feedwater Heater #6	TN	1	50.95	50.95	135.30	6,894	0.00	0	50.00	2,548
H.P. Feedwater Heater #7	TN	1	67.45	67.45	135.30	9,126	0.00	0	50.00	3,373
Boiler Feed Pumps (including motors)	TN	2	27.00	54.00	180.40	9,742	0.00	0	50.00	2,700
Condensate Storage Tank (150,000 gl)	TN	1	41.25	41.25	180.40	7,442	0.00	0	50.00	2,063
Condensate Storage Tank Foundation	CY	1	105.00	105.00	54.00	5,670	62.00	6,510	0.00	0
Condensate Recovery Tank (3,900 gl)	TN	1	3.00	3.00	180.40	541	0.00	0	50.00	150
Condensate Recovery Flash Tank	TN	1	0.50	0.50	180.40	90	0.00	0	50.00	25
Condensate Recovery Pump	TN	1	0.09	0.09	180.40	16	0.00	0	50.00	5
Boiler Fill Pump	TN	1	0.18	0.18	180.40	32	0.00	0	50.00	9
Heater Drain Pump	TN	1	0.65	0.65	180.40	117	0.00	0	50.00	33
Blow Down Tank (550 gl)	TN	1	0.50	0.50	180.40	90	0.00	0	50.00	25
Subtotal						54,409		6,510		14,989
Boiler Plant Piping										
Main Steam Piping	TN	1	58.55	58.55	180.40	10,562	0.00	0	50.00	2,928
Hot Reheat Piping	TN	1	75.67	75.67	180.40	13,651	0.00	0	50.00	3,784
Cold Reheat Piping	TN	1	95.69	95.69	180.40	17,262	0.00	0	50.00	4,785
Extraction Steam Piping	TN	1	39.27	39.27	180.40	7,084	0.00	0	50.00	1,964
Boiler Feed Piping	TN	1	20.52	20.52	180.40	3,702	0.00	0	50.00	1,026
Air Evacuation Piping	TN	1	47.88	47.88	180.40	8,638	0.00	0	50.00	2,394
Saturated Auxiliary Steam Piping	TN	1	123.53	123.53	180.40	22,285	0.00	0	50.00	6,177
Service & Cooling Water Piping	TN	1	65.18	65.18	180.40	11,758	0.00	0	50.00	3,259
Instrument, Sampling & Control Piping	TN	1	136.08	136.08	180.40	24,549	0.00	0	50.00	6,804
Condensate Piping	TN	1	73.45	73.45	180.40	13,250	0.00	0	50.00	3,673
Subtotal						132,742		0		36,791
Induced Draft Equipment										
Stack Breeching	TN	1	160.00	160.00	135.30	21,648	0.00	0	50.00	8,000
Stack	CY	1	1,625.00	1,625.00	54.00	87,750	62.00	100,750	0.00	0
Dust Collectors	TN	2	87.00	174.00	135.30	23,542	0.00	0	50.00	8,700
Concrete Stack Foundation	CY	1	760.00	760.00	54.00	41,040	62.00	47,120	0.00	0
Subtotal						173,980		147,870		16,700
Miscellaneous Steel & Equipment	TN	1	260.25	260.25	291.10	75,759	0.00	0	50.00	13,013
Total Account 312						1,368,258		232,035		367,699
FERC Account 314										
Turbo-Generator Units										
Pedestal Concrete	CY	1	1,582.00	1,582.00	54.00	85,428	62.00	98,084	0.00	0
Inserts & Anchor Bolts	TN	1	10.58	10.58	180.40	1,909	0.00	0	50.00	529
Turbo-Generator Unit	TN	1	648.00	648.00	102.50	66,420	0.00	0	50.00	32,400
Turbine Piping	TN	1	260.00	260.00	180.40	46,904	0.00	0	50.00	13,000

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Turbine Insulation	CY	1	700.00	700.00	41.00	28,700	n/a	0	0.00	0
Turbine Generator Copper	TN	1	58.50	58.50	400.00	23,400	0.00	0	710.00	41,535
Reinforcing Steel	TN	1	142.00	142.00	291.10	41,336	0.00	0	50.00	7,100
Subtotal						294,097		98,084		94,564
Condensers and Auxiliaries										
Condenser Shell	TN	1	867.50	867.50	135.30	117,373	0.00	0	50.00	43,375
Condenser - Aluminum-Brass Tubes	TN	1	214.50	214.50	291.10	62,441	0.00	0	140.00	30,030
Circulating Water Pumps and Motors	TN	2	70.54	141.08	180.40	25,451	0.00	0	50.00	7,054
Condensate Pumps and Motors	TN	2	15.08	30.16	180.40	5,441	0.00	0	50.00	1,508
Lube Oil Tank (1,900 gal)	TN	1	23.50	23.50	180.40	4,239	0.00	0	50.00	1,175
Subtotal						214,945		0		83,142
Miscellaneous Steel & Equipment	TN	1	64.97	64.97	291.10	18,913	0.00	0	50.00	3,249
Total Account 314						527,954		98,084		180,955
FERC Account 315										
Accessory Electrical Equipment										
Foundations & Structures										
Equipment Foundations - Concrete	CY	1	62.00	62.00	54.00	3,348	62.00	3,844	0.00	0
Manholes and Handholes	CY	1	101.00	101.00	21.60	2,182	62.00	6,262	0.00	0
Subtotal						5,530		10,106		0
Power and Conversion Equipment										
Auxiliary Power Transformer	TN	1	59.40	59.40	291.10	17,291	0.00	0	50.00	2,970
Station Service Transformer	TN	4	4.00	16.00	291.10	4,658	0.00	0	50.00	800
Transformer Copper	TN	1	32.08	32.08	300.00	9,624	0.00	0	710.00	22,777
Lighting Transformers	TN	8	0.60	4.80	291.10	1,397	0.00	0	50.00	240
Subtotal						32,970		0		26,787
Conduit, Insulators and Conductors										
Cable Trays	TN	1	5.42	5.42	291.10	1,578	0.00	0	50.00	271
Conduit	TN	1	63.56	63.56	180.40	11,466	0.00	0	50.00	3,178
Concrete	CY	1	710.00	710.00	54.00	38,340	62.00	44,020	0.00	0
Power Wiring	TN	1	199.82	199.82	492.00	98,311	0.00	0	760.00	151,863
Subtotal						149,695		44,020		155,312
Switching, Control and Protection Equipment										
Switchgear - 4,160v Metalclad	TN	1	40.00	40.00	180.40	7,216	0.00	0	50.00	2,000
Switchgear - 480v Metalclad	TN	2	18.00	36.00	180.40	6,494	0.00	0	50.00	1,800
Subtotal						13,710		0		3,800
Account 315 Total						201,906		54,126		185,899
FERC Account 316										
Miscellaneous Power Plant Equipment										
Compressed Air System	TN	1	6.46	6.46	291.10	1,881	0.00	0	50.00	323
Total Account 316						1,881		0		323
FERC Account 353										
Substation Equipment										
Concrete	CY	1	239.00	239.00	54.00	12,906	62.00	14,818	0.00	0
Main Power Transformer	TN	1	130.00	130.00	291.10	37,843	0.00	0	50.00	6,500
Transformer Copper	TN	1	85.81	85.81	300.00	25,742	0.00	0	710.00	60,924
Oil Circuit Breakers	TN	4	21.13	84.52	180.40	15,247	0.00	0	50.00	4,226
Control Wiring	TN	1	24.46	24.46	492.00	12,034	0.00	0	760.00	18,590

CAPE CANAVERAL DISMANTLEMENT STUDY

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Main Power Transformer - Foundation	CY	1	61.00	61.00	54.00	3,294	62.00	3,782	0.00	0
Oil Circuit Breakers - Foundation	CY	1	13.00	13.00	54.00	702	62.00	806	0.00	0
Steel Structures and Supports	TN	1	68.00	68.00	135.30	9,200	0.00	0	50.00	3,400
Underground Conduit	TN	1	0.89	0.89	246.00	219	0.00	0	50.00	45
Cable Trays	TN	1	0.50	0.50	291.10	146	0.00	0	50.00	25
Bus and Copper Tubing	TN	1	3.78	3.78	492.00	1,860	0.00	0	710.00	2,684
Air Break and Disconnect Switches	TN	8	2.35	18.80	180.40	3,392	0.00	0	50.00	940
Exposed Conduit	TN	1	0.56	0.56	180.40	101	0.00	0	50.00	28
Total Account 353						<u>122,666</u>		<u>19,406</u>		<u>97,361</u>
TOTAL CAPE CANAVERAL UNIT 2						<u>2,824,655</u>		<u>740,670</u>		<u>922,657</u>
TOTAL CAPE CANAVERAL COMMON, UNITS 1 & 2						<u>6,331,535</u>		<u>2,529,251</u>		<u>2,075,965</u>

CUTLER PLANT

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Cutler Plant

The Cutler Plant is located on an 80-acre site in Dade County, 14 miles southwest of Miami, Florida. At one time there were six generating units at the Cutler site, however all but two, Units No. 5 and 6, have been dismantled. The two units have a combined maximum generator name plate rating of 237 megawatts. The units are fueled by natural gas and are used to meet seasonal demand by operating primarily between 9:00 AM and 9:00 PM or as needed. A pipeline connected to the Florida Gas Transmission System transports the fuel. Units No. 5 and 6 went into commercial operation during 1954 and 1955 respectively.

Florida Power & Light Company last requested and received approval for dismantlement accruals for the Cutler Units in docket No. 941343-EI, Order No. PSC-95-1532-FOF-EI, issued on December 12, 1995. The current accruals became effective as of January 1, 1995.

**CUTLER
SUMMARY OF DISMANTLEMENT COSTS**

FERC Account	Description	Removal Cost (A)	Disposal Cost (B)	Salvage Value (C)	Total (D)=(A + B - C)
	<u>Cutler Common</u>				
311	Structures and Improvements	250,813	620,801	31,947	839,666
312	Boiler Plant Equipment	4,375	0	1,350	3,025
314	Turbogenerator Units	100,674	103,600	8,800	195,474
315	Accessory Electrical Equipment	53,453	0	10,343	43,110
316	Miscellaneous Equipment	1,845	0	450	1,395
	Subtotal	411,159	724,401	52,890	1,082,670
	<u>Transmission Plant</u>				
353	Substation Equipment	263,172	11,707	429,675	(154,797)
	<u>Other Site Costs:</u>				
	Site Mangement Expenses	381,888			381,888
	Intake & Discharge Backfill	78,279			78,279
	Grading & Seeding	704,008			704,008
	Subtotal	1,164,175	0	0	1,164,175
	Total Cutler Common	1,838,505	736,108	482,565	2,092,048
	Contingency - 16%	294,161	117,777		411,938
	Total Cutler Common	2,132,666	853,885	482,565	2,503,986
	Unusable M&S Inventory	372,692		55,904	316,788
		2,505,358	853,885	538,469	2,820,774
	<u>Cutler Unit 5</u>				
311	Structures and Improvements	153,834	252,828	14,448	392,214
312	Boiler Plant Equipment	748,499	206,612	125,247	829,865
314	Turbogenerator Units	167,280	78,085	62,881	182,485
315	Accessory Electrical Equipment	73,999	13,764	36,669	51,095
316	Miscellaneous Equipment	758	0	210	548
	Subtotal	1,144,370	551,290	239,454	1,456,206
	Contingency - 16%	183,099	88,206		271,306
	Total Cutler Unit 5	1,327,470	639,497	239,454	1,727,512
	<u>Cutler Unit 6</u>				
311	Structures and Improvements	260,893	375,630	32,523	604,000
312	Boiler Plant Equipment	1,041,175	254,085	189,819	1,105,442
314	Turbogenerator Units	348,906	106,894	65,915	389,886
315	Accessory Electrical Equipment	108,854	97,917	65,946	140,825
316	Miscellaneous Equipment	776	0	215	561
	Subtotal	1,760,605	834,526	354,418	2,240,713
	Contingency - 16%	281,697	133,524		415,221
	Total Cutler Unit 6	2,042,301	968,050	354,418	2,655,934
	Total Dismantlement Costs	5,875,129	2,461,432	1,132,341	7,204,220

**CUTLER
DISMANTLEMENT COST FOR INFLATION PROJECTION**

Description	Labor (A)	Material & Equipment (B)	Burial (C)	Salvage (D)	Total (A) + (B) + (C) - (D)
Cutler Common	1,279,600	1,225,758	853,885	538,469	2,820,774
Cutler Unit 5	796,482	530,988	639,497	239,454	1,727,512
Cutler Unit 6	1,225,381	816,921	968,050	354,418	2,655,934
Total	3,301,462	2,573,667	2,461,432	1,132,341	7,204,220

Labor is 60% of Removal Cost from Summary of Dismantlement Costs.
 Material & Equipment is 40% of Removal Cost from Summary of Dismantlement Costs.
 Burial is 100% of Disposal Cost from Summary of Dismantlement Costs.
 Salvage is 100% of Salvage from Summary of Dismantlement Costs.

CUTLER DISMANTLEMENT ASSUMPTIONS

FPL will provide management personnel for the dismantlement effort.

FPL will prepare the request for proposal package and solicit bids for the decommissioning effort.

FPL will provide site security during the dismantlement.

FPL will hire a demolition contractor to perform the actual dismantling work. This contractor will have the salvage rights to all plant equipment and structural material.

The land will be made available for future use.

All dismantling work will be done in accordance with OSHA regulations.

The fuel oil storage tanks will be cleaned and their contents disposed of according to the requirements of current regulations.

The following items will be removed:

- a. All structures, equipment, and concrete pads, pedestals, foundations, etc.;
- b. All underground gas, oil, sewer and water piping and electrical conduits (underground concrete piping to be collapsed);
- c. All hazardous and contaminated materials, e.g., acid filled lead batteries, oil tank residue.

Discussions with FPL's Power Generation Services Department (PGS) indicate that the return of the site to a green field condition entails removal of all structures above the wood pilings and steel-encased concrete pilings. The removal of the pilings would be unfeasible and, therefore, will remain in place.

The turbine pedestals and chimney will be control-blasted.

Scrap will be unprepared, i.e., cut only to the extent required to load the pieces on scrap dealers' trailers. Trucking costs for removal are paid by the scrap dealer and are reflected in the salvage value paid.

The estimate does not reflect land value or its resale.

The productivity factors employed are assumed valid for purposes of this study.

A contingency of 16% has been applied to the total removal and disposal costs. This contingency percentage covers costs associated with delays occurring after dismantlement begins due to such causes as equipment failure and weather delays.

The costs of such overhead items as project management, site security, etc., have been estimated by FPL's PGS Department. These costs are listed on the cost summary pages for each site's dismantlement study.

All materials and equipment are assumed to be either fully salvageable or to be disposed of completely. The availability of powerful cutting shears makes possible the cutting of even the heaviest steel to a size that permits salvage as scrap. Any unusable materials and supplies inventory will be sold as scrap. Estimated balances of such inventory (with an assumption of a 15% salvage value) have been included on the cost summary pages for each site's dismantlement study.

A 30% swell factor is used to compute the disposal cost per cubic yard of concrete. One cubic yard of concrete becomes 1.3 cubic yards of concrete rubble after demolition.

The switchyard and ancillary equipment (FERC account 353) will remain in place with the exception of the main power transformers, oil circuit breakers, superstructures, and foundations associated with the tie-in of plant generated power in the switchyard.

The turbine pedestals and chimneys will be control-blasted.

Transformer and circuit breaker insulating oils are assumed not to contain PCB's. Therefore, the transformers and oil circuit breakers will be salvageable.

It is assumed that dismantlement activity at Cutler will begin five years after end of service. The end of service dates used for this assumption conform to the economic recovery period ending dates used in the Cutler depreciation study filed as of year end 1997.

Though some asbestos abatement activity has occurred at Cutler, significant amounts of asbestos remain and can be expected to require abatement at final dismantlement. FPL's PGS Department has estimated the cost of asbestos removal at \$1,250 per yard and disposal at \$100 per cubic yard. This estimate is based on recent FPL experience.

DISMANTLING ACTIVITIES: OIL & GAS & OTHER PRODUCTION PLANTS

- Remove loose equipment, furniture, and spare parts.
- Drain liquids, drum-up, and dispose of drums.
- Remove hazardous materials; i.e., leads (alkaline), acids, solvents, lubricants, oils, chemicals, and gasses.
- Strip all insulation and covering, package and remove to acceptable landfill.
- Collapse circulating water lines and backfill trenches.
- Remove main steam, hot and cold piping, downcomers, valves, and supports, pumps, motors, generator auxiliary equipment, feedwater heaters, soot blowers, and condensers.
- Remove intake and discharge structures, equipment pumps, piping and valves.
- Remove systems that must be completed prior to the start of the boiler removal including lube oil pumps, all piping, instrument and electrical systems.
- Remove forced drafts and induced draft ductwork, air heaters and fans.
- Remove hoppers, burners, upper and lower headers, manways, and waterwalls.
- Remove heavy steel structures and above ground steel – precut key members, lower and cut at ground level.
- Disassemble crane, boiler feed pumps, and turbine generator.
- Separate scrap metals, and remove to scrap yard.
- Remove and dispose of miscellaneous rubble.
- Remove turbine pedestal, foundation, and heavy concrete structures and building, stack foundations, equipment foundations, substructures, support buildings and stacks. Remove to landfill.
- Cut off piles and remove pile caps. Remove concrete encased duct banks and underground piping.
- Remove septic tank and backfill.
- Remove underground storage tanks.
- Test and remove contaminated soil/bases – all areas.
- Install environmental monitoring equipment such as wells.
- Remove or improve remaining site facilities such as buildings, fences, parking areas in accordance with local code and regulations.
- Install/modify existing site storm water runoff system.

DISMANTLING ACTIVITIES: OIL & GAS AND OTHER PRODUCTION PLANTS

(Continued)

- Remove switchyard electrical equipment, structures, and foundations. Modify services to remaining occupied structures as required.
- Remove gas supply metering site, valve stations, underground distribution system.
- Backfill, site grading, seeding, mulching.
- Remove solid and liquid wastes from waste treatment processing areas – landfilled material, precipitated material in ponds and tanks, contaminated resins and reactants.
- Remove marine facilities such as fuel unloading docks, equipment, bridges, and dams.
- Cut and remove fuel oil tanks, piping, valves, and supports.
- Remove top soil/gravel, backfill, and remove barrier wall foundation.

CUTLER DISMANTLEMENT STUDY

DEVELOPMENT OF COST FACTORS

Cost factors have been developed to compute the net salvage value of the demolition of the Cutler Plant. The net salvage value of the demolition is the net of: the removal and disposal cost and the salvage value of equipment and steel not disposed of. These factors provide a unit cost or value for removal, disposal and salvage of a given unit of measure of the component materials of which a power plant is constructed. The assumption is that the cost or value per unit of a given component can be multiplied by the quantity of that component in the plant to calculate a total cost or value for removal, disposal, or salvage of that component.

REMOVAL COST FACTORS

The removal cost factors developed for this study have two elements: a burdened labor rate and productivity factor. The burdened labor rate multiplied by the productivity factor yields the removal cost factor. The labor rates used in this study were developed by FPL's Power Generation Services Department (PGS). The crew rate per man-hour is for a crew consisting of six journeymen laborers, one laborer foreman and one heavy equipment operator - a typical crew for demolition work. The rate includes the cost per man-hour of a Trojan 3500Z front end loader with a four yard bucket, and an American 9310, two hundred twenty-five ton crane with a two hundred foot boom. The productivity factors employed, e.g., the number of man-hours required to remove a given unit of measure of concrete, were developed by an engineering consulting firm. These factors are assumed valid for purposes of this study.

Labor Rate

Labor rates are based on Means Union wages in 1998. The rates are adjusted to reflect non-union crews and factored to the geographical area of the site. Wage rates are based on a 40 hour week.

Labor	\$24.43	X	6	=	\$146.59
Foreman	\$31.39	X	1	=	\$31.39
Heavy Equipment Operator	\$29.26	X	1	=	\$29.26
Total Cost per hour of 8 man crew					<u>\$207.24</u>
Cost per man hour			\$207.24 / 8	=	<u>\$25.90</u>

Equipment Rate

The equipment rate is based on the following equipment:

Excavator					14,968.30
Front End Loader					5,092.50
Cutting Equipment					200.00
Total per month					<u>\$20,260.80</u>
20,260.80	/	176	hours per month =		115.12
Cost per man hour			\$115.12 / 8	=	\$14.39
Plus: amount for small tools					0.80
Total Cost per man hour					<u>\$15.19</u>

CUTLER DISMANTLEMENT STUDY

Equipment & Labor Summary

Labor	\$25.90
Equipment	15.19
Total	<u>\$41.09</u>
Rounded	<u>\$41.00</u>
For Concrete demolition add \$4.00 per hour additional equipment charge.	<u>\$45.00</u>

The Removal Cost Factor is the product of the productivity factor for removal of a particular component multiplied by the total burdened hourly labor rate.

<u>Components</u>	<u>Hourly Rate</u>	<u>Productivity Factor</u>	<u>Removal Factor</u>
Extra Heavy Steel (1)	\$41.00	2.50 MH / Ton	\$102.50 / Ton
Heavy Steel (2)	\$41.00	3.30 MH / Ton	\$135.30 / Ton
General Steel	\$41.00	4.40 MH / Ton	\$180.40 / Ton
Light Steel	\$41.00	7.10 MH / Ton	\$291.10 / Ton
Concrete	\$45.00	0.48 MH / CY	\$21.60 / CY
Reinforced Concrete	\$45.00	1.20 MH / CY	\$54.00 / CY
Copper-Elect. Cable & Generator Leads &	\$41.00	12.00 MH / Ton	\$492.00 / Ton
Copper - Generator			\$400.00 / Ton
Copper - Transformer			\$300.00 / Ton
General Insulation	\$41.00	1.00 MH / CY	\$41.00 / CY
Inground Pipe-Metal(3)	\$41.00	6.00 MH / Ton	\$246.00 / Ton
Concrete Pipe (collapsed)	\$45.00	4.60 MH / Ton	\$207.00 / Ton
Asbestos			\$1,250.00 / CY

- (1) Includes turbine generator.
- (2) Includes parts of the steam generator, pipe larger than 8 inches.
- (3) Includes cost to backfill the trenches.

DISPOSAL COST FACTORS

Three cost factors were developed to compute the cost of disposal of non-hazardous wastes at the South Dade Disposal Facility, using dumpsters provided by Waste Mangement, Inc.. Concrete and non-asbestos insulation are non-hazardous wastes. The tipping fee is \$59/ton and the dumpster charge is \$270 per haul for a 20 cubic yard dumpster and \$348.75 for a 30 cubic yard dumpster.

Cost factors were also developed to compute the cost of removal and disposal of oil tanks, including the cost of related soil remediation. Such costs are computed for each tank in FPL's system, and are located in the detailed spreadsheet.

CUTLER DISMANTLEMENT STUDY

Concrete

One cubic yard of concrete in place weighs 3,950 pounds. One cubic yard becomes 1.3 cubic yards after demolition. Each load will contain 15.38 cubic yards (20 cu. yds./1.3) of in place concrete. 15.38 cubic yards weighs 61,000 pounds or 30.50 tons.

Truck Cost (incl. driver)	\$270.00 / pull	X	1 pull	=	\$270.00
Tipping Fees	\$59.00 / ton	X	30.5 tons	=	1,799.50
Total Cost per round Trip					<u>\$2,069.50</u>

Cost per Cubic Yard	\$2,069.50 / 15.38 cubic yards =	\$134.56
Plus 10% contractor profit		13.46
Total Cost per Cubic Yard		<u>\$148.01</u>

Rounded Cost per Cubic Yard	<u>\$148.00</u>
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Insulation - Calcium Silicate (Non-Hazardous)

A trailer with a 30 cubic yard capacity is used for insulation because of its lighter weight. For purposes of this computation the dumpster is assumed to be 90% full (although the tipping fee is based on the assumption of 100% full truck - i.e., the weight to volume conversion uses 30 cubic yards - the full volume of the dumpster). A cubic yard of calcium silicate insulation weighs 121.5 pounds or .060750 tons. 30 cubic yards times .060750 tons/cubic yard = 1.82 tons.

Truck Cost (incl. driver)	\$348.75 / pull	X	1 pull	=	\$348.75
Tipping Fees	\$59.00 / ton	X	1.82 tons	=	107.38
Total Cost per round Trip					<u>456.13</u>

Cost per Cubic Yard	\$456.13 / 27 cubic yards =	\$16.89
Plus 10% contractor profit		1.69
Total Cost per Cubic Yard		<u>\$18.58</u>

Rounded Cost per Cubic Yard	<u>\$19.00</u>
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<u>Insulation - Asbestos</u>	<u>\$100.00</u>
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CUTLER DISMANTLEMENT STUDY

SALVAGE VALUE FACTORS

The salvage value factors, presented in dollars per ton, were provided by FPL's Investment Recovery Department. The list covers all salvageable materials recovered from FPL sites.

Iron & Steel	\$50 / ton
Stainless Steel	\$300 / ton
Aluminum (Sheet Metal)	\$540 / ton
Wire & Cable:	
- Insulated Copper	\$760 / ton
- Insulated Aluminum	\$600 / ton
Copper	\$710 / ton
Nickel Alloys	
- 70/30 Cupro-Nickel	\$1,490 / ton
- 80/20 Cupro-Nickel	\$1,250 / ton
- Monel	\$2,340 / ton
Admiralty Brass	\$540 / ton
Aluminum Brass	\$140 / ton
Titanium	\$1,320 / ton

OTHER SITE COSTS

Site Management Expenses

Site management expenses refer to FPL's management costs and contractors' expenses associated with the dismantlement project. The cost factors provided by FPL's Power Generation Services Department (PGS) are: FPL expenses of \$13,901 per month, both office and site, and contractor's expenses \$17,923 per month. These expenses are assumed to be incurred over the 12 month dismantlement period used for the Cutler plant. FPL's management costs include administration, engineering, permit costs and various other costs. Contractors' expenses include field management, supervision, security, etc..

Site Management Expenses per month	\$31,824
Number of months	12.00
Total Site Management Expenses	<u>\$381,888</u>

Intake & Discharge Backfill

FPL's PGS Department developed this cost factor on the basis of a typical such structure for FPL's production plants. The assumption is that a volume of 1,600 cubic yards for the intake and 1,120 cubic yards for the discharge will need to be filled. The cost for the intake is \$28,021 the cost for the discharge is \$22,237. Cutler has one of each. The total back-fill cost is computed as follows:

	<u>Cost/Structure</u>	<u>Quantity</u>	<u>Totals</u>
Intake	\$28,021	2	\$56,042 *
Discharge	\$22,237	1	\$22,237
			<u>\$78,279</u>

* Cutler has a larger than average Intake. Thus for costing purposes, it is treated as having 2.

Grading and Seeding

This cost refers to the restoration of the dismantled area to a green field area. The land is filled with sand, spread with topsoil and then seeded. The cost factor provided by PGS is \$40,229 per acre. The acreage was determined for each site by reviewing engineering drawings to determine the areas requiring this effort. Assumptions underlying this cost factor include 2,000 cubic yards per acre to be backfilled and 968 cubic yards per acre of topsoil to be spread and seeded.

Cutler Acreage to be graded and seeded	17.50
Cost Factor	<u>\$40,229</u>
Total Grading and Seeding Expense	<u><u>\$704,008</u></u>

CUTLER DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Cutler Common Plant										
FERC Account 311										
Improvements to Site										
Shelter	CY	1	17.00	17.00	21.60	367	148.00	2,516	0.00	0
Roads & Walkways	CY	1	1,585.00	1,585.00	21.60	34,236	148.00	234,580	0.00	0
Yard Lighting	TN	1	3.00	3.00	291.10	873	0.00	0	50.00	150
Dock	CY	1	85.00	85.00	21.60	1,836	148.00	12,580	0.00	0
						37,313		249,676		150
Service Water Supply System										
Concrete	CY	1	50.00	50.00	54.00	2,700	148.00	7,400	0.00	0
Raw Water Tank	TN	1	17.00	17.00	180.40	3,067	0.00	0	50.00	850
Piping	TN	1	15.00	15.00	135.30	2,030	0.00	0	50.00	750
Reinforced Concrete	CY	1	105.00	105.00	54.00	5,670	148.00	15,540	0.00	0
Raw Water Pumps	TN	1	5.00	5.00	154.00	770	0.00	0	50.00	250
Salt Water Pumps	TN	1	6.00	6.00	154.00	924	0.00	0	50.00	300
						15,160		22,940		2,150
Intake Structure										
Concrete	CY	1	395.00	395.00	54.00	21,330	148.00	58,460	0.00	0
Grills, Screens, Hoists	TN	1	14.00	14.00	180.40	2,526	0.00	0	50.00	700
						23,856		58,460		700
Conduits - Intake & Discharge										
Concrete Discharge Tunnel	CY	1	299.00	299.00	54.00	16,146	148.00	44,252	0.00	0
Reinforced - Concrete Discharge Tunnel	CY	1	1,420.00	1,420.00	54.00	76,680	148.00	210,160	0.00	0
						92,826		254,412		0
Station Structures										
Structural Steel	TN	1	208.00	208.00	135.30	28,142	0.00	0	50.00	10,400
Turbine Enclosure	TN	1	15.00	15.00	180.40	2,706	0.00	0	50.00	750
Cable Vault Trays	TN	1	7.00	7.00	180.40	1,263	0.00	0	50.00	350
Laboratory Walls	CY	1	27.00	27.00	21.60	583	148.00	3,996	0.00	0
Concrete	CY	1	82.00	82.00	21.60	1,771	148.00	12,136	0.00	0
Grating & Steel Plate Floor	TN	1	11.00	11.00	180.40	1,984	0.00	0	50.00	550
Station Cranes & Hoists	TN	1	74.00	74.00	154.00	11,396	0.00	0	50.00	3,700
						47,846		16,132		15,750
Building Equipment										
Building Elevator	TN	1	9.00	9.00	180.40	1,624	0.00	0	50.00	450
Structural Steel - Elevator	TN	1	27.10	27.10	135.30	3,667	0.00	0	300.00	8,130
Reinforced Concrete - Elevator	CY	1	4.60	4.60	54.00	248	148.00	681	0.00	0
HVAC	TN	1	6.00	6.00	180.40	1,082	0.00	0	50.00	300
Plumbing	TN	1	7.00	7.00	180.40	1,263	0.00	0	50.00	350
Lighting & Building Wiring	TN	1	19.00	19.00	420.00	7,980	0.00	0	50.00	950
Fire Protection Equipment	TN	1	4.00	4.00	180.40	722	0.00	0	50.00	200
Other Cranes & Hoists	TN	1	1.34	1.34	154.00	206	0.00	0	50.00	67
						16,792		681		10,447
Service Building										
Concrete	CY	1	125.00	125.00	54.00	6,750	148.00	18,500	0.00	0
Structural Steel	TN	1	37.00	37.00	135.30	5,006	0.00	0	50.00	1,850
HVAC	TN	1	9.00	9.00	291.10	2,620	0.00	0	50.00	450
Plumbing	TN	1	5.00	5.00	135.30	677	0.00	0	50.00	250

CUTLER DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Lighting & Building Wiring	TN	1	4.00	4.00	492.00	1,968	0.00	0	50.00	200
						17,021		18,500		2,750
Total Account 311						250,813		620,801		31,947
FERC Account 312										
Boiler Plant Equipment										
Fuel Oil & Gas Equipment										
Strainers, Heaters & Accessories	TN	1	16.00	16.00	180.40	2,886	0.00	0	50.00	800
Boiler Plant Auxiliaries										
Boiler Piping	TN	1	11.00	11.00	135.30	1,488	0.00	0	50.00	550
Total Account 312						4,375		0		1,350
FERC Account 314										
Turbogenerator Equipment										
Condensers & Auxiliaries										
Circulating Water Pumps & Valves	TN	4	39.00	156.00	180.40	28,142	0.00	0	50.00	7,800
Miscellaneous Turbine Equipment	TN	1	11.00	11.00	180.40	1,984	0.00	0	50.00	550
Circulating Water Pipe	CY	1	105.00	105.00	207.00	30,127	0.00	0	0.00	0
						60,254		0		8,350
Reinforced Concrete - Units 3 & 4 Turbine Pedestals	CY	1	700.00	700.00	54.00	37,800	148.00	103,600	0.00	0
Turbine Room Instruments	TN	1	9.00	9.00	291.10	2,620	0.00	0	50.00	450
						40,420		103,600		450
Total Account 314						100,674		103,600		8,800
FERC Account 315										
Accessory Electrical Equipment										
Aux Power Transformer	TN	1	12.00	12.00	180.40	2,165	0.00	0	50.00	600
Station Service Transformer	TN	1	2.50	2.50	180.40	451	0.00	0	50.00	125
Transformer Copper	TN	1	5.80	5.80	300.00	1,740	0.00	0	710.00	4,118
Power Wiring	TN	1	50.00	50.00	492.00	24,600	0.00	0	50.00	2,500
Control Cable & Supporting Cable Trays	TN	1	35.00	35.00	492.00	17,220	0.00	0	50.00	1,750
Control Boards, Switchgear & Load Centers	TN	1	25.00	25.00	291.10	7,278	0.00	0	50.00	1,250
Total Account 315						53,453		0		10,343
FERC Account 316										
Miscellaneous Power Plant Equipment										
Air Compressor System	TN	1	7.00	7.00	180.40	1,263	0.00	0	50.00	350
Communications Equipment	TN	1	1.00	1.00	291.10	291	0.00	0	50.00	50
General Plant Equipment	TN	1	1.00	1.00	291.10	291	0.00	0	50.00	50
Total Account 316						1,845		0		450
Total Cutler Common						411,159		724,401		52,890

CUTLER DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
CUTLER UNIT 5										
FERC Account 311										
Improvements to Site										
Reinforced Concrete	CY	1	69.60	69.60	54.00	3,758	148.00	10,301	0.00	0
Subtotal						3,758		10,301		0
Condensing and Service Water System										
Water Treatment Equipment	TN	1	22.00	22.00	180.40	3,969	0.00	0	50.00	1,100
Reinforced Concrete - Piping	CY	1	4.00	4.00	54.00	216	148.00	592	0.00	0
Reinf Concr - Fresh Water Well System	CY	1	1.30	1.30	54.00	70	148.00	192	0.00	0
Salt Water Well Pump System	TN	2	1.28	2.56	180.40	462	0.00	0	50.00	128
Reinf Concr - Salt Water Well Pump System	CY	1	6.30	6.30	54.00	340	148.00	932	0.00	0
Reinforced Concrete - Intake Structure	CY	1	354.30	354.30	54.00	19,132	148.00	52,436	0.00	0
Structural Steel	TN	1	11.81	11.81	135.30	1,598	0.00	0	50.00	591
Traveling, Fine and Coarse Screens	TN	1	30.02	30.02	180.40	5,416	0.00	0	50.00	1,501
Screen Wash Pump	TN	1	1.04	1.04	291.10	303	0.00	0	50.00	52
Piping (Cast Iron - 42")	TN	1	100.60	100.60	246.00	24,748	0.00	0	0.00	0
Piping (Transite - 6")	TN	1	22.75	22.75	246.00	5,597	0.00	0	0.00	0
Concrete	CY	1	12.00	12.00	21.60	259	148.00	1,776	0.00	0
Reinforced Concrete	CY	1	162.00	162.00	54.00	8,748	148.00	23,976	0.00	0
Subtotal						70,857		79,905		3,372
Station Structures										
Concrete	CY	1	366.00	366.00	21.60	7,906	148.00	54,168	0.00	0
Reinforced Concrete - Walls & Floors	CY	1	545.10	545.10	54.00	29,435	148.00	80,675	0.00	0
Structural Steel	TN	1	143.50	143.50	135.30	19,416	0.00	0	50.00	7,175
Grating, Steel Plate & Doors	TN	1	10.30	10.30	291.10	2,998	0.00	0	50.00	515
Steel Platforms, Stairs, Ladders, Handrailing	TN	1	21.10	21.10	291.10	6,142	0.00	0	50.00	1,055
Concrete - Floors & Roofs	CY	1	101.60	101.60	21.60	2,195	148.00	15,037	0.00	0
Reinforced Concrete - Floors, Drains & Sumps	CY	1	23.50	23.50	54.00	1,269	148.00	3,478	0.00	0
Other Cranes & Hoists	TN	1	1.13	1.13	135.30	153	0.00	0	50.00	57
Elevator	TN	1	9.00	9.00	154.00	1,386	0.00	0	50.00	450
Structural Steel - Elevator	TN	1	36.50	36.50	135.30	4,938	0.00	0	50.00	1,825
Reinforced Concrete - Elevator	CY	1	3.60	3.60	54.00	194	148.00	533	0.00	0
Subtotal						76,032		153,890		11,077
Fuel and Ash Structure										
Reinf Concr Supports for Existing Pipe Lines	CY	1	59.00	59.00	54.00	3,186	148.00	8,732	0.00	0
Subtotal						3,186		8,732		0
Total Account 311						153,834		252,828		14,448
FERC Account 312										
Boiler Plant Equipment										
Fuel Oil Burner Pumps	TN	2	0.80	1.60	180.40	289	0.00	0	50.00	80
Fuel Oil Booster Pump (w/motor)	TN	1	2.20	2.20	180.40	397	0.00	0	50.00	110
Reinforced Concrete for Fuel Burner Pumps	CY	1	6.00	6.00	54.00	324	148.00	888	0.00	0
Forced Draft Fans	TN	2	5.25	10.50	154.00	1,617	0.00	0	50.00	525
Motors for Forced Draft Fans	TN	2	1.75	3.50	180.40	631	0.00	0	50.00	175
Forced Draft Foundation - Reinforced Concrete	CY	1	40.00	40.00	54.00	2,160	148.00	5,920	0.00	0
Ducts	TN	1	120.00	120.00	180.40	21,648	0.00	0	50.00	6,000

CUTLER DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Duct Insulation	CY	1	180.00	180.00	41.00	7,380	19.00	3,420	0.00	0
Reinf Concrete for F.O., Stm. Cond. Piping	CY	1	21.70	21.70	54.00	1,172	148.00	3,212	0.00	0
Subtotal						35,618		13,440		6,890
Boiler Equipment										
Reinforced Concrete - Boiler Foundation Piers	CY	1	16.00	16.00	54.00	864	148.00	2,368	0.00	0
Concrete Deck Slabs	CY	1	28.00	28.00	54.00	1,512	148.00	4,144	0.00	0
Structural Steel	TN	1	479.80	479.80	135.30	64,917	0.00	0	50.00	23,990
Platform Grating and Handrail	TN	1	68.50	68.50	291.10	19,940	0.00	0	50.00	3,425
Gas Piping	TN	1	37.00	37.00	180.40	6,675	0.00	0	50.00	1,850
Steam Generation Unit - including:										
Drum	TN	1	69.75	69.75	135.30	9,437	0.00	0	50.00	3,488
Water walls	TN	1	190.34	190.34	135.30	25,753	0.00	0	50.00	9,517
Downcomers	TN	1	38.50	38.50	135.30	5,209	0.00	0	50.00	1,925
Airheater	TN	1	134.70	134.70	135.30	18,225	0.00	0	50.00	6,735
Superheater	TN	1	135.38	135.38	135.30	18,317	0.00	0	50.00	6,769
Economizer	TN	1	111.38	111.38	135.30	15,070	0.00	0	50.00	5,569
Boiler setting - Insulation	CY	1	60.37	60.37	1,250.00	75,463	100.00	6,037	0.00	0
Boiler setting - brick	CY	1	148.13	148.13	1,250.00	185,163	100.00	14,813	0.00	0
Copper pipe and tubing	TN	1	52.00	52.00	291.10	15,137	0.00	0	710.00	36,920
Combustion and Feedwater Control Equipment	TN	1	5.75	5.75	291.10	1,674	0.00	0	50.00	288
Subtotal						463,355		27,362		100,475
Boiler Plant Auxiliaries										
Feed Water Heaters										
11th Stage High Pressure Heater #2	TN	1	5.40	5.40	135.30	731	0.00	0	50.00	270
17th Stage High Pressure Heater #1	TN	1	4.83	4.83	135.30	653	0.00	0	50.00	242
22nd Stage Intermediate Pressure Heater	TN	1	4.07	4.07	135.30	551	0.00	0	50.00	204
25th Stage Low Pressure Heater #2	TN	1	4.98	4.98	180.40	898	0.00	0	50.00	249
28th Stage Low Pressure Heater #1	TN	1	7.42	7.42	180.40	1,339	0.00	0	50.00	371
Condensate Make-Up Heater	TN	1	1.02	1.02	180.40	184	0.00	0	50.00	51
Boiler Feed Pumps (including motors)	TN	3	7.65	22.95	135.30	3,105	0.00	0	50.00	1,148
Reinforced Concrete for Pumps	CY	1	38.50	38.50	54.00	2,079	148.00	5,698	0.00	0
Intermediate Pressure Heater Drain Pumps	TN	2	1.27	2.54	180.40	458	0.00	0	50.00	127
I.P. Heater Drain Pumps - Reinforced Concrete	CY	1	4.70	4.70	54.00	254	148.00	696	0.00	0
Feedwater Regulator Valves	TN	1	4.10	4.10	135.30	555	0.00	0	50.00	205
Reverse Current Valves	TN	1	1.29	1.29	135.30	175	0.00	0	50.00	65
Subtotal						10,981		6,394		2,930
Boiler Plant Piping										
General Piping (includes system valves)										
2.5" & Under - Pipe, Valves & Fittings	TN	1	1.34	1.34	291.10	390	0.00	0	50.00	67
2.5" & Under - Insulation	CY	1	10.70	10.70	1,250.00	13,375	100.00	1,070	0.00	0
2.51" - 8" - Pipe, Valves & Fittings	TN	1	63.86	63.86	180.40	11,520	0.00	0	50.00	3,193
2.51" - 8" - Insulation	CY	1	93.26	93.26	1,250.00	116,575	100.00	9,326	0.00	0
Over 8" - Pipe, Valves & Fittings	TN	1	82.04	82.04	135.30	11,100	0.00	0	50.00	4,102
Over 8" - Insulation	CY	1	66.99	66.99	41.00	2,747	19.00	1,273	0.00	0
Extraction Steam Valves	TN	1	1.00	1.00	135.30	135	0.00	0	50.00	50
Main Steam Stop Valves	TN	2	5.00	10.00	135.30	1,353	0.00	0	50.00	500
Check Valves - 6"	TN	3	0.43	1.29	180.40	233	0.00	0	50.00	65

CUTLER DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Steel Valves - 2" & smaller	TN	1	2.50	2.50	291.10	728	0.00	0	50.00	125
Reverse Current Valves 6", 8", 12"	TN	1	1.29	1.29	180.40	233	0.00	0	50.00	65
Subtotal						158,389		11,669		8,166
<u>Induced Draft Equipment</u>										
Stack Breaching	CY	1	200.30	200.30	54.00	10,816	148.00	29,644	0.00	0
Foundation - Reinforced Concrete I.D. Fans	CY	1	50.00	50.00	54.00	2,700	148.00	7,400	0.00	0
Induced Draft Fans	TN	2	8.75	17.50	135.30	2,368	0.00	0	50.00	875
Motors for Induced Draft Fans	TN	2	3.94	7.88	180.40	1,421	0.00	0	50.00	394
Dust Separators	TN	2	31.00	62.00	135.30	8,389	0.00	0	50.00	3,100
Dust Separators - Reinforced Concrete	CY	1	5.30	5.30	54.00	286	148.00	784	0.00	0
Soot Disposal Discharge Reinforced Concrete	CY	1	5.70	5.70	54.00	308	148.00	844	0.00	0
150' Stack With Tile Lining	CY	1	187.50	187.50	54.00	10,125	148.00	27,750	0.00	0
Reinforced Concrete for Stack	CY	1	199.50	199.50	54.00	10,773	148.00	29,526	0.00	0
Concrete Stack Foundation - Concrete	CY	1	350.00	350.00	54.00	18,900	148.00	51,800	0.00	0
Subtotal						66,085		147,748		4,369
Miscellaneous Equipment & Steel	TN	1	48.34	48.34	291.10	14,072	0.00	0	50.00	2,417
Total Account 312						748,499		206,612		125,247
<u>FERC Account 314</u>										
<u>Turbogenerator Unit</u>										
<u>Concrete Pedestal</u>										
Reinforced Concrete	CY	1	388.80	388.80	54.00	20,995	148.00	57,542	0.00	0
Subtotal						20,995		57,542		0
<u>Turbogenerator Equipment</u>										
Turbine Generator	TN	1	362.50	362.50	102.50	37,156	0.00	0	50.00	18,125
Turbine Generator Copper	TN	1	22.48	22.48	400.00	8,990	0.00	0	710.00	15,957
Turbine Generator Access Foundations	CY	1	29.00	29.00	54.00	1,566	148.00	4,292	0.00	0
Turbine Plant Piping	TN	1	158.10	158.10	180.40	28,521	0.00	0	50.00	7,905
Turbine Insulation	CY	1	275.00	275.00	41.00	11,275	19.00	5,225	0.00	0
Turbine Insulation - Asbestos	CY	1	103.00	103.00	1,250.00	128,750	100.00	10,300	0.00	0
Subtotal						87,508		9,517		41,987
<u>Condensers and Auxiliaries</u>										
Condenser - 60000 sq ft, twin shell w/1600 cu ft hotwell storage. Incls 10096 almn-brs tubes.										
Condenser Shell	TN	1	197.50	197.50	135.30	26,722	0.00	0	50.00	9,875
Condenser Tubes - Aluminum-Brass	TN	1	64.25	64.25	291.10	18,703	0.00	0	140.00	8,995
Condenser Foundation - Reinforced Concrete	CY	1	62.00	62.00	54.00	3,348	148.00	9,176	0.00	0
Subtotal						48,773		9,176		18,870
<u>Auxiliary Equipment</u>										
Condensate Pumps (includes 200 hp motors)	TN	3	4.25	12.75	180.40	2,300	0.00	0	50.00	638
Reinforced Concrete For Condensate Pumps	CY	1	8.90	8.90	54.00	481	148.00	1,317	0.00	0
Subtotal						2,781		1,317		638

CUTLER DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
<u>Cooling Water Equipment</u>										
Cooling Water Pumps - Aurora 2000 gpm	TN	2	0.60	1.20	180.40	216	0.00	0	50.00	60
Cooling Water Pumps - Reinforced Concrete	CY	1	3.10	3.10	54.00	167	148.00	459	0.00	0
Cooling Water Heat Exchangers - 1 mil #/hr	TN	1	6.15	6.15	180.40	1,109	0.00	0	50.00	308
Reinf Concr for Cooling Water Heat Exchangers	CY	1	0.50	0.50	54.00	27	148.00	74	0.00	0
Sealing Water Sys - Cng Wtr & Gind SI Tnks	TN	1	2.05	2.05	180.40	370	0.00	0	50.00	103
Subtotal						1,890		533		470
Miscellaneous Equipment	TN	1	18.32	18.32	291.10	5,333	0.00	0	50.00	916
Total Account 314						167,280		78,085		62,881
FERC Account 315										
<u>Accessory Electrical Equipment</u>										
<u>Foundations and Structures</u>										
<u>Generator Leads & Supports</u>										
Reinforced Concrete	CY	1	33.10	33.10	54.00	1,787	148.00	4,899	0.00	0
Structural Steel	TN	1	7.70	7.70	135.30	1,042	0.00	0	50.00	385
Generator Leads Enclosures	TN	1	4.84	4.84	180.40	873	0.00	0	50.00	242
Subtotal						3,702		4,899		627
<u>Power Conversion Equipment</u>										
2400 V Metal Clad Switchgear	TN	2	22.25	44.50	291.10	12,954	0.00	0	50.00	2,225
480 V Metal Clad Switchgear	TN	2	18.25	36.50	291.10	10,625	0.00	0	50.00	1,825
Main Exciter	TN	1	8.38	8.38	291.10	2,439	0.00	0	50.00	419
Starting Transformer - 5000 kva	TN	1	12.00	12.00	291.10	3,493	0.00	0	50.00	600
Transformer Copper	TN	1	4.80	4.80	300.00	1,440	0.00	0	710.00	3,408
Reinforced Concrete for Starting Transformer	CY	1	19.90	19.90	54.00	1,075	148.00	2,945	0.00	0
Conduit	TN	1	40.00	40.00	291.10	11,644	0.00	0	50.00	2,000
Concrete	CY	1	447.80	447.80	21.60	9,672	148.00	5,920	0.00	0
Generator Leads (all copper tubing)	TN	1	12.50	12.50	492.00	6,150	0.00	0	710.00	8,875
Power Wiring	TN	1	20.89	20.89	492.00	10,278	0.00	0	760.00	15,876
Control Cable & Supporting Cable Trays	TN	1	1.07	1.07	492.00	526	0.00	0	760.00	813
Subtotal						70,297		8,865		36,042
Total Account 315						73,999		13,764		36,669
FERC Account 316										
<u>Miscellaneous Power Plant Equipment</u>										
Air Compressor System	TN	2	2.10	4.20	180.40	758	0.00	0	50.00	210
Total Account 316						758		0		210
FERC Account 353										
<u>Substation Equipment</u>										
Main Power Transformers	TN	1	84.50	84.50	291.10	24,598	0.00	0	50.00	4,225
Transformer Copper	TN	1	190.00	190.00	300.00	57,000	0.00	0	710.00	134,900
Main Power Transformers - Reinf. Concrete	CY	1	22.80	22.80	54.00	1,231	148.00	3,374	0.00	0
Total Account 353						82,829		3,374		139,125
TOTAL CUTLER UNIT 5						1,227,200		554,665		378,579

CUTLER DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
CUTLER UNIT 6										
FERC Account 311										
Improvements to Site										
Reinforced Concrete	CY	1	43.70	43.70	54.00	2,360	148.00	6,468	0.00	0
Asphalt Paving	CY	1	202.54	202.54	21.60	4,375	148.00	29,976	0.00	0
Subtotal						6,735		36,444		0
Condensing and Service Water System										
Piping	TN	1	3.80	3.80	246.00	935	0.00	0	50.00	190
Reinforced Concrete - Piping	CY	1	17.20	17.20	54.00	929	148.00	2,546	0.00	0
Salt Water Well Pump System	TN	1	1.62	1.62	180.40	292	0.00	0	50.00	81
Reinforced Concrete - Intake Structure	CY	1	373.00	373.00	54.00	20,142	148.00	55,204	0.00	0
Structural Steel	TN	1	64.90	64.90	135.30	8,781	0.00	0	50.00	3,245
Traveling, Fine and Coarse Screens	TN	1	19.74	19.74	180.40	3,561	0.00	0	50.00	987
Piping (Cast Iron - 48")	TN	1	292.40	292.40	246.00	71,930	0.00	0	50.00	14,620
Piping (Concrete - 48")	TN	1	106.86	106.86	207.00	22,120	0.00	0	0.00	0
Concrete	CY	1	233.30	233.30	21.60	5,039	148.00	34,528	0.00	0
Reinforced Concrete	CY	1	32.50	32.50	54.00	1,755	148.00	4,810	0.00	0
Subtotal						135,485		97,088		19,123
Station Structures										
Walls & Floors - Unreinforced Concrete	CY	1	351.50	351.50	21.60	7,592	148.00	52,022	0.00	0
Reinforced Concrete - Walls & Floors	CY	1	1,277.40	1,277.40	54.00	68,980	148.00	189,055	0.00	0
Structural Steel	TN	1	158.90	158.90	135.30	21,499	0.00	0	50.00	7,945
Grating and Steel Plate	TN	1	10.30	10.30	291.10	2,998	0.00	0	50.00	515
Steel Platforms, Stairs, Ladders, Handrailing	TN	1	24.80	24.80	291.10	7,219	0.00	0	50.00	1,240
Reinforced Concrete - Floors, Drains & Sumps	CY	1	6.90	6.90	54.00	373	148.00	1,021	0.00	0
Station Crane	TN	1	74.00	74.00	135.30	10,012	0.00	0	50.00	3,700
Subtotal						118,674		242,098		13,400
Total Account 311						260,893		375,630		32,523
FERC Account 312										
Boiler Plant Equipment										
Fuel Oil Transfer Pump - 420 gpm (w/50 hp mtr)	TN	2	0.85	1.70	180.40	307	0.00	0	50.00	85
Unloading Pump - 1225 gpm (w/125 hp motor)	TN	1	3.50	3.50	180.40	631	0.00	0	50.00	175
Stripping Pump - 200 gpm	TN	1	1.06	1.06	180.40	191	0.00	0	50.00	53
Reinforced Concrete for Pumps	CY	1	4.30	4.30	54.00	232	148.00	636	0.00	0
6", 10", 12" basket fuel oil strainers	TN	1	2.55	2.55	180.40	460	0.00	0	50.00	128
Reinforced Concrete for Heaters & Strainers	CY	1	11.40	11.40	54.00	616	148.00	1,687	0.00	0
Fuel Burner Pumps	TN	4	0.75	3.00	180.40	541	0.00	0	50.00	150
Reinforced Concrete for Fuel Burner Pumps	CY	1	29.70	29.70	54.00	1,604	148.00	4,396	0.00	0
Forced Draft Fans	TN	2	7.94	15.88	135.30	2,149	0.00	0	50.00	794
Motors for Forced Draft Fans	TN	2	2.64	5.28	180.40	953	0.00	0	50.00	264
Forced Draft Foundation - Reinforced Concrete	CY	1	52.10	52.10	54.00	2,813	148.00	7,711	0.00	0
Ducts	TN	1	160.00	160.00	180.40	28,864	0.00	0	50.00	8,000
Duct Insulation	CY	1	240.00	240.00	41.00	9,840	19.00	4,560	0.00	0
Reinf Concrete for F.O., Strm, Cond. Piping	CY	1	19.80	19.80	54.00	1,069	148.00	2,930	0.00	0

CUTLER DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Subtotal						50,270		21,920		9,649
<u>Boiler Equipment</u>										
Concrete Reinforced Boiler Foundation Piers	CY	1	21.30	21.30	54.00	1,150	148.00	3,152	0.00	0
Concrete Deck Slabs	CY	1	40.70	40.70	54.00	2,198	148.00	6,024	0.00	0
Structural Steel	TN	1	768.80	768.80	135.30	104,019	0.00	0	50.00	38,440
Platform Grating and Handrail	TN	1	90.60	90.60	291.10	26,374	0.00	0	50.00	4,530
Gas Piping	TN	1	41.00	41.00	180.40	7,398	0.00	0	50.00	2,050
<u>Steam Generation Unit - including:</u>								0		
Drum	TN	1	91.18	91.18	135.30	12,337	0.00	0	50.00	4,559
Water walls	TN	1	241.73	241.73	135.30	32,706	0.00	0	50.00	12,087
Downcomers	TN	1	70.33	70.33	135.30	9,516	0.00	0	50.00	3,517
Airheater	TN	2	74.00	148.00	135.30	20,024	0.00	0	50.00	7,400
Superheater	TN	1	142.96	142.96	135.30	19,342	0.00	0	50.00	7,148
Reheater	TN	1	150.11	150.11	135.30	20,310	0.00	0	50.00	7,506
Economizer	TN	1	171.93	171.93	135.30	23,262	0.00	0	50.00	8,597
Boiler setting - Insulation	CY	1	77.00	77.00	1,250.00	96,250	100.00	7,700	0.00	0
Boiler setting - brick	CY	1	188.00	188.00	1,250.00	235,000	100.00	18,800	0.00	0
Copper pipe and tubing	TN	1	67.40	67.40	420.00	28,308	0.00	0	710.00	47,854
Model RIC Air Compressors	TN	1	3.65	3.65	291.10	1,063	0.00	0	50.00	183
Combust. Cntrl Eqpmnt - Reinforced Concrete	CY	1	21.30	21.30	54.00	1,150	148.00	3,152	0.00	0
Subtotal						640,405		38,828		143,869
<u>Boiler Plant Auxiliaries</u>										
<u>Feed Water Heaters</u>										
7th Extraction Point Crossover Heater	TN	1	31.50	31.50	135.30	4,262	0.00	0	50.00	1,575
11th Extraction Point - High Pressure Heater	TN	1	30.00	30.00	135.30	4,059	0.00	0	50.00	1,500
15th Extraction Point - Intermed. Pres. Htr.	TN	1	11.00	11.00	135.30	1,488	0.00	0	50.00	550
17th Extraction Point - Low Pressure Heater	TN	1	11.50	11.50	180.40	2,075	0.00	0	50.00	575
19th Extraction Point - Low Pressure Heater	TN	1	11.25	11.25	180.40	2,030	0.00	0	50.00	563
20th Extraction Point - Low Pressure Heater	TN	1	19.75	19.75	180.40	3,563	0.00	0	50.00	988
Deaerating Preheater	TN	1	3.25	3.25	135.30	440	0.00	0	50.00	163
Boiler Feed Pumps (including motors)	TN	3	19.25	57.75	135.30	7,814	0.00	0	50.00	2,888
Boiler Feed Pump Ventilation - Fans	TN	1	3.49	3.49	135.30	472	0.00	0	50.00	175
Boiler Feed Pumps Reinforced Concrete	CY	1	62.60	62.60	54.00	3,380	148.00	9,265	0.00	0
Intermediate Pressure Heater Drain Pumps	TN	2	1.59	3.18	180.40	574	0.00	0	50.00	159
I.P. Heater Drain Pumps - Reinforced Concrete	CY	1	2.20	2.20	54.00	119	148.00	326	0.00	0
Condensate Storage Tank - Reinforced Concrete	CY	1	5.90	5.90	54.00	319	148.00	873	0.00	0
Condensate Storage Tank - 60000 gal cap	TN	1	16.50	16.50	180.40	2,977	0.00	0	50.00	825
Condensate Collecting Tank	TN	1	2.50	2.50	180.40	451	0.00	0	50.00	125
Combustion and Feedwater Controls	TN	1	1.78	1.78	291.10	518	0.00	0	50.00	89
Feedwater Regulator Valves	TN	1	5.75	5.75	135.30	778	0.00	0	50.00	288
Reverse Current Valves	TN	1	1.28	1.28	135.30	173	0.00	0	50.00	64
Condensate Return Cooler w/158.5 sq ft surf.	TN	1	1.60	1.60	180.40	289	0.00	0	50.00	80
Blowoff Tank - 6' dia, 7'7" high	TN	1	6.30	6.30	135.30	852	0.00	0	50.00	315
Blowoff Tank - Reinforced Concrete	CY	1	4.90	4.90	54.00	265	148.00	725	0.00	0
Subtotal						36,896		11,189		10,919
<u>Boiler Plant Piping</u>										
General Piping (includes system valves)										

CUTLER DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
2.5" & Under - Pipe, Valves & Fittings	TN	1	1.79	1.79	291.10	521	0.00	0	50.00	90
2.5" & Under - Insulation	CY	1	16.00	16.00	1,250.00	20,000	100.00	1,600	0.00	0
2.51" - 8" - Pipe, Valves & Fittings	TN	1	89.64	89.64	180.40	16,171	0.00	0	50.00	4,482
2.51" - 8" - Insulation	CY	1	124.00	124.00	1,250.00	155,000	100.00	12,400	0.00	0
Over 8" - Pipe, Valves & Fittings	TN	1	109.38	109.38	135.30	14,799	0.00	0	50.00	5,469
Over 8" - Insulation	CY	1	89.04	89.04	41.00	3,651	19.00	1,692	0.00	0
Extraction Steam Valves	TN	1	1.05	1.05	135.30	142	0.00	0	50.00	53
Main Steam Stop Valves	TN	2	6.50	13.00	135.30	1,759	0.00	0	50.00	650
Combined Reheat Stop Valves	TN	2	9.00	18.00	135.30	2,435	0.00	0	50.00	900
Subtotal						214,478		15,692		11,643
<u>Induced Draft Equipment</u>										
Stack Breeching	CY	1	173.50	173.50	54.00	9,369	148.00	25,678	0.00	0
Foundation - Reinforced Concrete I.D. Fans	CY	1	63.10	63.10	54.00	3,407	148.00	9,339	0.00	0
Induced Draft Fans	TN	2	11.85	23.70	135.30	3,207	0.00	0	50.00	1,185
Motors for Induced Draft Fans	TN	2	5.65	11.30	180.40	2,039	0.00	0	50.00	565
Dust Separators	TN	2	77.00	154.00	135.30	20,836	0.00	0	50.00	7,700
Dust Separators - Reinforced Concrete	CY	1	4.80	4.80	54.00	259	148.00	710	0.00	0
Soot Disposal Discharge Reinforced Concrete	CY	1	14.20	14.20	54.00	767	148.00	2,102	0.00	0
150' Stack with Inner Radial Brick Lining	CY	1	187.50	187.50	54.00	10,125	148.00	27,750	0.00	0
Concrete Stack Fndtn - Reinforced Concrete	CY	1	290.80	290.80	54.00	15,703	148.00	43,038	0.00	0
Concrete Stack Fndtn - Concrete	CY	1	390.80	390.80	21.60	8,441	148.00	57,838	0.00	0
Subtotal						74,153		166,456		9,450
Miscellaneous Equipment & Steel	TN	1	85.79	85.79	291.10	24,973	0.00	0	50.00	4,290
Total Account 312						1,041,175		254,085		189,819
<u>FERC Account 314</u>										
<u>Turbogenerator Unit</u>										
<u>Concrete Pedestal</u>										
Reinforced Concrete	CY	1	568.50	568.50	54.00	30,699	148.00	84,138	0.00	0
Subtotal						30,699		84,138		0
<u>Turbogenerator Equipment</u>										
Turbine Generator	TN	1	475.00	475.00	102.50	48,688	0.00	0	50.00	23,750
Turbine Generator Copper	TN	1	10.45	10.45	400.00	4,180	0.00	0	710.00	7,420
Turbine Generator Access Foundations	CY	1	14.60	14.60	54.00	788	148.00	2,161	0.00	0
Turbine Plant Piping	TN	1	207.20	207.20	180.40	37,379	0.00	0	50.00	10,360
Turbine Insulation	CY	1	370.00	370.00	41.00	15,170	19.00	7,030	0.00	0
Turbine Insulation	CY	1	125.00	125.00	1,250.00	156,250	100.00	12,500	0.00	0
Subtotal						262,455		21,691		41,530
<u>Condensers and Auxiliaries</u>										
Condenser - 65000 sq ft, single shell w/1600 cu ft hotwell storage. Incls 9524 almn-brs tubes.										
Condenser Shell	TN	1	238.00	238.00	135.30	32,201	0.00	0	50.00	11,900
Condenser Tubes	TN	1	69.95	69.95	154.00	10,772	0.00	0	140.00	9,793
Condenser Foundation - Reinforced Concrete	CY	1	5.90	5.90	54.00	319	148.00	873	0.00	0

CUTLER DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Subtotal						43,292		873		21,693
Auxiliary Equipment										
Condensate Pumps - w/300 hp motors	TN	3	5.75	17.25	180.40	3,112	0.00	0	50.00	863
Steam Jet Air Ejectors	TN	1	2.50	2.50	180.40	451	0.00	0	50.00	125
Silencers for Blowoff Tank	TN	1	2.58	2.58	180.40	465	0.00	0	50.00	129
Subtotal						4,028		0		1,117
Cooling Water Equipment										
Cooling Water Pumps - Aurora 2000 gpm w/60 hp	TN	2	0.60	1.20	180.40	216	0.00	0	50.00	60
Cooling Water Pumps - Reinforced Concrete	CY	1	0.40	0.40	54.00	22	148.00	59	0.00	0
Cooling Water Heat Exchangers - 1 mil #/hr	TN	1	6.15	6.15	180.40	1,109	0.00	0	50.00	308
Reinf Concr for Cooling Water Heat Exchangs.	CY	1	0.90	0.90	54.00	49	148.00	133	0.00	0
Subtotal						1,396		192		368
Miscellaneous Equipment & Steel	TN	1	24.17	24.17	291.10	7,036	0.00	0	50.00	1,209
Total Account 314						348,906		106,894		65,915
FERC Account 315										
Accessory Electrical Equipment										
Foundations and Structures										
Generator Leads & Supports										
Reinforced Concrete	CY	1	47.60	47.60	54.00	2,570	148.00	7,045	0.00	0
Structural Steel	TN	1	20.97	20.97	135.30	2,837	0.00	0	50.00	1,049
Generator Leads Enclosures	TN	1	19.35	19.35	180.40	3,491	0.00	0	50.00	968
Manholes & Handholes - Reinforced Concrete	CY	1	46.40	46.40	54.00	2,506	148.00	6,867	0.00	0
Auxiliary Power Trnsfmr - Reinforced Concr.	CY	1	5.50	5.50	54.00	297	148.00	814	0.00	0
Station Service Trnsfmr - Reinforced Concr.	CY	1	13.00	13.00	54.00	702	148.00	1,924	0.00	0
Metal Clad 2400 v Switchgear - Reinf. Concr.	CY	1	31.00	31.00	54.00	1,674	148.00	4,588	0.00	0
Subtotal						14,077		21,238		2,016
Power Conversion Equipment										
2400 V Metal Clad Switchgear	TN	2	18.00	36.00	291.10	10,480	0.00	0	50.00	1,800
480 V Metal Clad Switchgear	TN	2	15.00	30.00	291.10	8,733	0.00	0	50.00	1,500
Main Exciter	TN	1	15.08	15.08	291.10	4,390	0.00	0	50.00	754
Starting Transformer	TN	1	9.00	9.00	291.10	2,620	0.00	0	50.00	450
Transformer Copper	TN	1	3.60	3.60	300.00	1,080	0.00	0	710.00	2,556
Conduit	TN	1	56.50	56.50	291.10	16,447	0.00	0	50.00	2,825
Concrete	CY	1	518.10	518.10	21.60	11,191	148.00	76,679	0.00	0
Station Insulators	TN	1	8.10	8.10	291.10	2,358	0.00	0	50.00	405
Generator Leads - Copper	TN	1	16.00	16.00	492.00	7,872	0.00	0	710.00	11,360
Buss Fittings	TN	1	3.90	3.90	291.10	1,135	0.00	0	50.00	195
Power Wiring	TN	1	26.74	26.74	492.00	13,156	0.00	0	760.00	20,322
Control Wiring	TN	1	25.79	25.79	492.00	12,689	0.00	0	760.00	19,600
Other Cable	TN	1	2.30	2.30	492.00	1,132	0.00	0	760.00	1,748
Rigid Steel Conduit	TN	1	8.29	8.29	180.40	1,496	0.00	0	50.00	415
Subtotal						94,777		76,679		63,930
Total Account 315						108,854		97,917		65,946

CUTLER DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
FERC Account 316										
Miscellaneous Power Plant Equipment										
Air Compressor System	TN	2	2.15	4.30	180.40	776	0.00	0	50.00	215
Total Account 316						<u>776</u>		<u>0</u>		<u>215</u>
FERC Account 353										
Substation Equipment										
Main Power Transformers - 80000 kva	TN	2	95.00	190.00	291.10	55,309	0.00	0	50.00	9,500
Main Power Transformers - Reinf. Concrete	CY	1	39.20	39.20	54.00	2,117	148.00	5,802	0.00	0
Transformer Copper	TN	1	395.00	395.00	300.00	118,500	0.00	0	710.00	280,450
Oil Circuit Breakers	TN	3	4.00	12.00	291.10	3,493	0.00	0	50.00	600
Oil Circuit Breakers - Reinforced Concrete	CY	1	17.10	17.10	54.00	923	148.00	2,531	0.00	0
Total Account 353						<u>180,342</u>		<u>8,332</u>		<u>290,550</u>
TOTAL CUTLER UNIT 6						<u>1,940,947</u>		<u>842,858</u>		<u>644,968</u>
TOTAL CUTLER COMMON & UNITS 5 & 6						<u>3,579,306</u>		<u>2,121,924</u>		<u>1,076,437</u>

FORT LAUDERDALE PLANT

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Fort Lauderdale Plant

The Fort Lauderdale Plant is located in Broward County near Dania, Florida. Units No. 4 and 5 have been repowered by changing the main steam source from a conventional boiler to a combined cycle unit that employs a pair of industrial jet engines with mechanically connected electric generators and a heat recovery unit to produce steam to drive the existing electrical generator. By utilizing the otherwise wasted heat from the combustion turbines, the repowered units are significantly more efficient. The existing steam turbines, electric generators, and associated condenser cooling system continue in service as part of the repowered units. The existing condensing cooling water system draws brackish cooling water from the Dania Cut-Off Canal through intake structures. The water is cooled in a man-made canal/pond system and is discharged to the South Fork New River.

The repowered units burn natural gas or light oil. The site is served by the existing natural gas and light oil pipelines, as well as by a new gas pipeline lateral. The two units have a combined maximum generator nameplate rating of 1,042 megawatts. The commercial operation dates were May 24, 1993 and June 9, 1993 for Units No. 4 and 5 respectively.

There are also twenty-four gas turbine modules located at the plant in two groups of twelve units each. These gas turbine modules are used as peaking units only and are fueled by natural gas or #2 light oil as an alternative fuel. The combined maximum generator nameplate rating for the gas turbines are 822 megawatts.

Florida Power & Light Company last requested and received approval for dismantlement accruals for the Fort Lauderdale plant in Docket No. 941343-EI, Order No. PSC-95-1532-FOF-EI, issued on December 12, 1995. The current accruals became effective as of January 1, 1995.

**FT. LAUDERDALE
SUMMARY OF DISMANTLEMENT COSTS**

FERC Account	Description	Removal Cost (A)	Disposal Cost (B)	Salvage Value (C)	Total (D)=(A + B - C)
<u>Ft. Lauderdale Common</u>					
<u>Production Plant</u>					
341	Structures and Improvements	2,025,580	1,648,490	323,750	3,350,320
342	Fuel Holders, Producers, and Accessories	13,421	4,760	3,850	14,331
343	Prime Movers	214,524	45,312	68,300	191,536
344	Generators	0	0	0	0
345	Accessory Electric Equipment	116,503	10,430	85,000	41,933
346	Miscellaneous Power Plant Equipment				
	Subtotal	2,370,027	1,708,992	480,900	3,598,119
<u>Other Site Costs:</u>					
	Site Management Expenses	763,776			763,776
	Intake & Discharge Backfill	78,279			78,279
	Grading & Seeding	1,838,465			1,838,465
	Subtotal	2,680,520	0	0	2,680,520
	Total	5,050,547	1,708,992	480,900	6,278,639
	Contingency - 16%	808,088	273,439		1,081,526
	Total Ft. Lauderdale Common	5,858,635	1,982,431	480,900	7,360,166
	Unusable M&S Inventory	3,484,113		522,617	2,961,496
	Total Ft. Lauderdale Common including Unusable M&S Inventory	9,342,748	1,982,431	1,003,517	10,321,662
<u>Ft. Lauderdale Unit 4</u>					
341	Structures and Improvements	1,041,916	367,920	179,100	1,230,736
342	Fuel Holders, Producers, and Accessories	153,410	22,575	29,630	146,355
343	Prime Movers	1,033,051	103,470	352,050	784,471
344	Generators	384,546	119,722	93,305	410,963
345	Accessory Electric Equipment	375,635	62,890	197,331	241,194
346	Miscellaneous Power Plant Equipment	22,131	8,995	2,400	28,726
353	Substation Equipment	190,909	13,909	69,147	135,671
	Subtotal	3,201,598	699,481	922,963	2,978,116
	Contingency - 16%	512,256	111,917		624,173
	Total Ft. Lauderdale Unit 4	3,713,853	811,398	922,963	3,602,289
<u>Ft. Lauderdale Unit 5</u>					
341	Structures and Improvements	206,539	96,985	15,950	287,574
342	Fuel Holders, Producers, and Accessories	101,387	12,765	19,480	94,672
343	Prime Movers	858,466	58,065	329,150	587,381
344	Generators	381,851	118,287	201,640	298,498
345	Accessory Electric Equipment	317,735	50,815	178,628	189,922
346	Miscellaneous Power Plant Equipment	15,046	5,075	2,000	18,121
353	Substation Equipment	194,293	13,909	77,155	131,046
	Subtotal	2,075,318	355,901	824,003	1,607,215
	Contingency - 16%	332,051	56,944		388,995
	Total Ft. Lauderdale Unit 5	2,407,369	412,845	824,003	1,996,210
<u>Ft. Lauderdale Gas Turbines</u>					
341	Structures and Improvements	3,240	5,250	0	8,490
342	Fuel Holders, Producers, and Accessories	0	0	0	0
343	Prime Movers	339,874	0	94,200	245,674
344	Generators	3,301	0	1,610	1,691
345	Accessory Electric Equipment	2,255	0	625	1,630
346	Miscellaneous Power Plant Equipment				0
	Subtotal	348,669	5,250	96,435	257,484
	Contingency - 16%	55,787	840		56,627
	Total Ft. Lauderdale Gas Turbines	404,456	6,090	96,435	314,111
	Total Dismantlement Costs	15,868,426	3,212,764	2,846,918	16,234,272

**FT. LAUDERDALE
DISMANTLEMENT COST FOR INFLATION PROJECTION**

Description	Labor (A)	Material & Equipment (B)	Burial (C)	Salvage (D)	Total (A) + (B) + (C) - (D)
Ft. Lauderdale Common	3,515,181	5,827,567	1,982,431	1,003,517	10,321,662
Ft. Lauderdale Unit 4	2,228,312	1,485,541	811,398	922,963	3,602,289
Ft. Lauderdale Unit 5	1,444,421	962,947	412,845	824,003	1,996,210
Ft. Lauderdale Gas Turbines	242,674	161,782	6,090	96,435	314,111
Total	7,430,588	8,437,839	3,212,764	2,846,918	16,234,272

Labor is 60% of Removal Cost from Summary of Dismantlement Costs.
 Material & Equipment is 40% of Removal Cost from Summary of Dismantlement Costs.
 Burial is 100% of Disposal Cost from Summary of Dismantlement Costs.
 Salvage is 100% of Salvage from Summary of Dismantlement Costs.

FT. LAUDERDALE DISMANTLEMENT ASSUMPTIONS

FPL will provide management personnel for the dismantlement effort.

FPL will prepare the request for proposal package and solicit bids for the decommissioning effort.

FPL will provide site security during the dismantlement.

FPL will hire a demolition contractor to perform the actual dismantling work. This contractor will have the salvage rights to all plant equipment and structural material.

The land will be made available for future use.

All dismantling work will be done in accordance with OSHA regulations.

The fuel oil storage tanks will be cleaned and their contents disposed of according to the requirements of current regulations.

The following items will be removed:

- a. All structures, equipment, and concrete pads, pedestals, foundations, etc.;
- b. All underground gas, oil, sewer and water piping and electrical conduits (underground concrete piping to be collapsed);
- c. All hazardous and contaminated materials, e.g., acid filled lead batteries, oil tank residue.

Discussions with FPL's Power Generation Services Department (PGS) indicate that the return of the site to a green field condition entails removal of all structures above the wood pilings and steel-encased concrete pilings. The removal of the pilings would be unfeasible and, therefore, will remain in place.

The turbine pedestals and chimney will be control-blasted.

Scrap will be unprepared, i.e., cut only to the extent required to load the pieces on scrap dealers' trailers. Trucking costs for removal are paid by the scrap dealer and are reflected in the salvage value paid.

The estimate does not reflect land value or its resale.

The productivity factors employed are assumed valid for purposes of this study.

A contingency of 16% has been applied to the total removal and disposal costs. This contingency percentage covers costs associated with delays occurring after dismantlement begins due to such causes as equipment failure and weather delays.

The costs of such overhead items as project management, site security, etc., have been estimated by FPL's PGS Department. These costs are listed on the cost summary pages for each site's dismantlement study.

All materials and equipment are assumed to be either fully salvageable or to be disposed of completely. The availability of powerful cutting shears makes possible the cutting of even the heaviest steel to a size that permits salvage as scrap. Any unusable materials and supplies inventory will be sold as scrap. Estimated balances of such inventory (with an assumption of a 15% salvage value) have been included on the cost summary pages for each site's dismantlement study.

A 30% swell factor is used to compute the disposal cost per cubic yard of concrete. One cubic yard of concrete becomes 1.3 cubic yards of concrete rubble after demolition.

The switchyard and ancillary equipment (FERC account 353) will remain in place with the exception of the main power transformers, oil circuit breakers, superstructures, and foundations associated with the tie-in of plant generated power in the switchyard.

The turbine pedestals and chimneys will be control-blasted.

Transformer and circuit breaker insulating oils are assumed not to contain PCB's. Therefore, the transformers and oil circuit breakers will be salvageable.

It is assumed that dismantlement activity at Ft. Lauderdale will begin five years after end of service. The end of service dates used for this assumption conform to the economic recovery period ending dates used in the Ft. Lauderdale depreciation study filed as of year end 1997.

Ft. Lauderdale is an asbestos free site.

DISMANTLING ACTIVITIES: OIL & GAS & OTHER PRODUCTION PLANTS

- Remove loose equipment, furniture, and spare parts.
- Drain liquids, drum-up, and dispose of drums.
- Remove hazardous materials; i.e., leads (alkaline), acids, solvents, lubricants, oils, chemicals, and gasses.
- Strip all insulation and covering, package and remove to acceptable landfill.
- Collapse circulating water lines and backfill trenches.
- Remove main steam, hot and cold piping, downcomers, valves, and supports, pumps, motors, generator auxiliary equipment, feedwater heaters, soot blowers, and condensers.
- Remove intake and discharge structures, equipment pumps, piping and valves.
- Remove systems that must be completed prior to the start of the boiler removal including lube oil pumps, all piping, instrument and electrical systems.
- Remove forced drafts and induced draft ductwork, air heaters and fans.
- Remove hoppers, burners, upper and lower headers, manways, and waterwalls.
- Remove heavy steel structures and above ground steel – precut key members, lower and cut at ground level.
- Disassemble crane, boiler feed pumps, and turbine generator.
- Separate scrap metals, and remove to scrap yard.
- Remove and dispose of miscellaneous rubble.
- Remove turbine pedestal, foundation, and heavy concrete structures and building, stack foundations, equipment foundations, substructures, support buildings and stacks. Remove to landfill.
- Cut off piles and remove pile caps. Remove concrete encased duct banks and underground piping.
- Remove septic tank and backfill.
- Remove underground storage tanks.
- Test and remove contaminated soil/bases – all areas.
- Install environmental monitoring equipment such as wells.
- Remove or improve remaining site facilities such as buildings, fences, parking areas in accordance with local code and regulations.
- Install/modify existing site storm water runoff system.

DISMANTLING ACTIVITIES: OIL & GAS AND OTHER PRODUCTION PLANTS

(Continued)

- Remove switchyard electrical equipment, structures, and foundations. Modify services to remaining occupied structures as required.
- Remove gas supply metering site, valve stations, underground distribution system.
- Backfill, site grading, seeding, mulching.
- Remove solid and liquid wastes from waste treatment processing areas – landfilled material, precipitated material in ponds and tanks, contaminated resins and reactants.
- Remove marine facilities such as fuel unloading docks, equipment, bridges, and dams.
- Cut and remove fuel oil tanks, piping, valves, and supports.
- Remove top soil/gravel, backfill, and remove barrier wall foundation.

DEVELOPMENT OF COST FACTORS

Cost factors have been developed to compute the net salvage value of the demolition of the Lauderdale Units 4 & 5. The net salvage value of the demolition is the net of: the removal and disposal cost and the salvage value of equipment and steel not disposed of. These factors provide a unit cost or value for removal, disposal and salvage of a given unit of measure of the component materials of which a power plant is constructed. The assumption is that the cost or value per unit of a given component can be multiplied by the quantity of that component the plant to calculate a total cost or value for removal, disposal, or salvage of that component.

REMOVAL COST FACTORS

The removal cost factors developed for this study have two elements: a burdened labor rate and productivity factor. The burdened labor rate multiplied by the productivity factor yields the removal cost factor. The labor rates used in this study were developed by FPL's Power Generation Services Department (PGS). The crew rate per man-hour is for a crew consisting of six journeymen laborers, one laborer foreman and one heavy equipment operator - a typical crew for demolition work. The rate includes the cost per man-hour of a Trojan 3500Z front end loader with a four yard bucket, and an American 9310, two hundred twenty-five ton crane with a two hundred foot boom. The productivity factors employed, e.g., the number of man-hours required to remove a given unit of measure of concrete, were developed by an engineering consulting firm. These factors are assumed valid for purposes of this study.

Labor Rate

Labor rates are based on Means Union wages for 1998. The rates are adjusted to reflect non-union crews and factored to the geographical location of the site. Wage rates are based on a 40 hour work week.

Labor	\$24.72	X	6	=	\$148.32
Foreman	\$31.76	X	1	=	\$31.76
Heavy Equipment Operator	\$29.61	X	1	=	\$29.61
Total Cost per hour of 8 man crew					<u>\$209.69</u>
Cost per man hour			\$209.69 / 8 =		<u>\$26.21</u>

Equipment Rate

The equipment rate is based on the following equipment:

Excavator					14,968.30
Front End Loader					5,092.50
Cutting Equipment					200.00
Total per month					<u>\$20,260.80</u>
	20,260.80	/	176	hours per month =	115.12
Cost per man hour			\$115.12 / 8 =		\$14.39
Plus: amount for small tools					0.80
Total Cost per man hour					<u>\$15.19</u>

LAUDERDALE DISMANTLEMENT STUDY

Equipment & Labor Summary

Labor	\$26.21
Equipment	15.19
Total	<u>\$41.40</u>
Rounded	<u>\$41.00</u>
For Concrete demolition add \$4.00 per hour additional equipment charge.	<u>\$45.00</u>

The Removal Cost Factor is the product of the productivity factor for removal of a particular component multiplied by the total burdened hourly labor rate. The removal cost factors for all materials to be removed from FPL's sites are as follows:

<u>Components</u>	<u>Hourly Rate</u>	<u>Productivity Factor</u>	<u>Removal Factor</u>
Extra Heavy Steel (1)	\$41.00	2.50 MH / Ton	\$102.50 / Ton
Heavy Steel (2)	\$41.00	3.30 MH / Ton	\$135.30 / Ton
General Steel	\$41.00	4.40 MH / Ton	\$180.40 / Ton
Light Steel	\$41.00	7.10 MH / Ton	\$291.10 / Ton
Concrete	\$45.00	0.48 MH / CY	\$21.60 / CY
Reinforced Concrete	\$45.00	1.20 MH / CY	\$54.00 / CY
Copper-Elect. Cable & Generator Leads &	\$41.00	12.00 MH / Ton	\$492.00 / Ton
Copper - Generator			\$400.00 / Ton
Copper - Transformer			\$300.00 / Ton
General Insulation	\$41.00	1.00 MH / CY	\$41.00 / CY
Inground Pipe-Metal(3)	\$41.00	6.00 MH / Ton	\$246.00 / Ton
Concrete Pipe (collapsed)	\$45.00	4.60 MH / Ton	\$207.00 / Ton
Asbestos Insulation			\$1,250.00 / CY

(1) Includes turbine generator.

(2) Includes parts of the steam generator, pipe larger than 8 inches.

(3) Includes cost to backfill the trenches.

DISPOSAL COST FACTORS

Three cost factors were developed to compute the cost of disposal of non-hazardous wastes at the Central Landfill located at 7101 S.W. 205 Avenue in Ft. Lauderdale, Florida. Concrete and calcium silicated insulation are non-hazardous wastes. The tipping fees (\$9.65/cy for concrete, \$7.95/cy for non-asbestos insulation) and the dumpster charge of \$292.50/haul (including driver) was obtained from the Central Landfill.

Cost factors were also developed to compute the cost of removal and disposal of oil tanks, including the cost of related soil remediation. Such costs are computed for each tank in FPL's system, and are located appropriately in the detailed spreadsheet.

Concrete

One cubic yard of concrete in place weighs 3,950 pounds. Once cubic yard becomes 1.3 cubic yards after demolition. Each load will contain 15.38 cubic yards (20 cu. yds./1.3) of in place concrete. 15.38 cubic yards weighs 61,000 pounds or 30.50 tons.

Dumpster Charge per haul						292.50
Tipping Fee	\$9.65	/CY	X	20	CY	= 193.00
subtotal						<u>485.50</u>
Cost per Cubic Yard	\$485.50	/ 15.38 cubic yards =				\$31.57
Plus 10% contractor profit						3.16
Total Cost per Cubic Yard						<u>\$34.72</u>
Rounded Cost per Cubic Yard						<u>\$35.00</u>

Concrete pipe that is collapsed and abandoned in place has a disposal cost of: \$179.40

Insulation - Calcium Silicate (Non-Hazardous)

A trailer with a 40 cubic yard capacity is used for insulation because of its lighter weight. For purposes of this computation the dumpster is assumed to be 90% full (although the tipping fee is based on the assumption of 100% full truck - i.e., 40 cubic yards - the full volume of the dumpster).

Dumpster Charge per haul						\$292.50
Tipping Fees	\$7.95	/ CY	X	40	CY	= 318.00
Total Cost per round Trip						<u>\$610.50</u>
Cost per Cubic Yard	\$610.50	/ 36 cubic yards =				\$16.96
Plus 10% contractor profit						1.70
Total Cost per Cubic Yard						<u>\$18.65</u>
Rounded Cost per Cubic Yard						<u>\$19.00</u>
Asbestos Insulation						<u>\$100.00</u>

SALVAGE VALUE FACTORS

The salvage value factors, presented in dollars per ton, were provided by FPL's Investment Recovery Department. The list covers all salvageable materials recovered from FPL sites.

Iron & Steel	\$50 / ton
Stainless Steel	\$300 / ton
Aluminum (Sheet Metal)	\$540 / ton
Wire & Cable:	
- Insulated Copper	\$760 / ton
- Insulated Aluminum	\$600 / ton
Copper	\$710 / ton
Nickel Alloys	
- 70/30 Cupro-Nickel	\$1,490 / ton
- 80/20 Cupro-Nickel	\$1,250 / ton
- Monel	\$2,340 / ton
Admiralty Brass	\$540 / ton
Aluminum Brass	\$140 / ton
Titanium	\$1,320 / ton

OTHER SITE COSTS

Site Management Expenses

Site management expenses refer to FPL's management costs and contractors' expenses associated with the dismantlement project. The cost factors provided by FPL's Power Generation Services Department (PGS) are: FPL expenses of \$13,901 per month both office and site, and contractor's expenses of \$17,923 per month. These expenses are assumed to be incurred over the 24 month dismantlement period for the Lauderdale Plant. FPL's management costs include administration, engineering, permit costs and various other costs. Contractors' expenses include field management, supervision, security and other costs.

Site Management Expenses per month	\$31,824
Number of months	24.00
Total Site Management Expenses	<u><u>\$763,776</u></u>

Intake & Discharge Backfill

FPL's PGS Department developed this cost factor on the basis of a typical such structure for FPL's production plants. The assumption is that a volume of 1,600 cubic yards for the intake and 1,120 cubic yards for the discharge will need to be filled. For Lauderdale Units 4 & 5, the costs are as follows:

2	Intake Structures at :	\$28,021	equals:	\$56,042
1	Discharge Structures at:	\$22,237	equals:	\$22,237
Total Cost to Backfill Intake & Discharge Structures equals:				<u>\$78,279</u>

Grading and Seeding

This cost refers to the restoration of the dismantled area to a green field. The land is filled with sand, spread with topsoil and then seeded. The cost factor provided by PGS is \$40,229 per acre. The acreage was determined for each site by reviewing engineering drawings to determine the areas requiring this effort. Assumptions underlying this cost factor include 2,000 cubic yards per acre to be backfilled and 968 cubic yards per acre of topsoil to be spread and seeded.

Lauderdale Acreage to be graded and seeded	45.70
Cost Factor	<u>\$40,229</u>
Total Grading and Seeding Expense	<u>\$1,838,465</u>

Fort Lauderdale

Removal, Disposal & Salvage Cost Worksheet	U/M Unit of Measure	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost Per Item	Disposal Cost per Unit of Measure	Disposal Cost Per Item	Salvage Value per Unit of Measure	Realizable Salvage Value per Item
Common Facilities								
Account 341: Structures & Improvements								
Concrete - Discharge Structure	CY	204	54.00	11,016	35.00	7,140	0.00	0
Pavement	CY	3,500	21.60	75,600	35.00	122,500	0.00	0
Concrete Drain Pipe & Supports	CY	53	21.60	1,140	35.00	1,847	0.00	0
Water Treatment Equipment	TN	29	180.40	5,232	0.00	0	50.00	1,450
Piping	TN	8	180.40	1,443	0.00	0	50.00	400
Pumping Equipment	TN	122	180.40	22,009	0.00	0	50.00	6,100
Concrete Mats	CY	1,784	21.60	38,534	35.00	62,440	0.00	0
Concrete Basement Floors	CY	2,861	21.60	61,798	35.00	100,135	0.00	0
Structural Steel	TN	365	180.40	65,846	0.00	0	50.00	18,250
Platforms, Hndrls & Gratings	TN	60	180.40	10,824	0.00	0	50.00	3,000
Concrete Floors and Roof	CY	221	21.60	4,774	35.00	7,735	0.00	0
Cranes and Hoists	TN	151	180.40	27,240	0.00	0	50.00	7,550
Elevator	TN	9	180.40	1,624	0.00	0	50.00	450
Plumbing and Building Drainage	TN	15	180.40	2,706	0.00	0	50.00	750
Oil Storage Tank	TN	460	n/a	75,000	0.00	0	50.00	23,000
Oil Storage Tank Cleaning	n/a	n/a	n/a	0	n/a	256,513	n/a	0
Soil Remediation	n/a	n/a	n/a	0	n/a	383,670	n/a	0
Concrete Foundations	CY	184	54.00	9,936	35.00	6,440	0.00	0
Fire Walls	CY	11,991	21.60	259,006	35.00	419,685	0.00	0
Piping & Supports	TN	129	180.40	23,272	0.00	0	50.00	6,450
Pumps	TN	3	180.40	541	0.00	0	50.00	150
Heaters	TN	22	180.40	3,969	0.00	0	50.00	1,100
Administration Building	TN	4,358	180.40	786,183	0.00	0	50.00	217,900
Misc Eq Foundations	CY	1,817	54.00	98,118	35.00	63,595	0.00	0
Thrust Blocks	CY	9	21.60	194	35.00	315	0.00	0
Pipe 4" or > Fire Protection	TN	3	135.30	406	0.00	0	50.00	150
Valve, manual	TN	2	135.30	271	0.00	0	50.00	100
Large Pipe Supports	TN	1	135.30	135	0.00	0	50.00	50
2.5" & > - 6" - 8" Carbon Steel Pipe	TN	5	180.40	902	0.00	0	50.00	250
2.5" & > - 10" - 14" Carbon Steel Pipe	TN	25	180.40	4,510	0.00	0	50.00	1,250
Reinforced Concrete	CY	682	54.00	36,828	35.00	23,870	0.00	0
Reinforced Concrete - Other	CY	71	54.00	3,834	35.00	2,485	0.00	0
Miscellaneous Foundations - Concrete	CY	23	21.60	497	35.00	805	0.00	0
Fiberglass Above Ground Piping	CY	35	21.60	756	35.00	1,225	0.00	0
10" - 14" Fiberglass Piping - Above Ground	CY	3	21.60	65	35.00	105	0.00	0
Special Piping - Fiberglass -Above Ground	CY	11	21.60	238	35.00	385	0.00	0
WT & WWT - Makeup Demin & Aux	TN	1	180.40	180	0.00	0	50.00	50
WT & WWT - DeGas Equipment	TN	2	180.40	361	0.00	0	50.00	100
WT & WWT - Reverse Osmosis Equipment	TN	12	180.40	2,165	0.00	0	50.00	600
WT & WWT - Reverse Osmosis Equipment	TN	1	180.40	180	0.00	0	50.00	50
WT & WWT - Makeup Demin & Aux	TN	2	180.40	361	0.00	0	50.00	100
Reinforced Concrete - Pits, Sumps & Ramps	CY	52	54.00	2,808	35.00	1,820	0.00	0
Reinforced Concrete - Slab on Grade	CY	2,379	54.00	128,466	35.00	83,265	0.00	0
Reinforced Concrete - Walls	CY	138	54.00	7,452	35.00	4,830	0.00	0
Misc. Steel - Grating	TN	8	291.10	2,329	0.00	0	50.00	400
Handrail, Checkplate	TN	6	291.10	1,747	0.00	0	50.00	300
WT & WWT - Makeup Demin & Aux	TN	2	180.40	361	0.00	0	50.00	100
Reinforced Concrete - Pits, Sumps& Ramps	CY	384	54.00	20,736	35.00	13,440	0.00	0
Reinforced Concrete - Slab on Grade	CY	167	54.00	9,018	35.00	5,845	0.00	0
Reinforced Concrete - Foundations	CY	375	54.00	20,250	35.00	13,125	0.00	0
Reinforced Concrete - Piers, Pads, Curbs, etc.	CY	17	54.00	918	35.00	595	0.00	0
Handrail, Checkplate	TN	20	180.40	3,608	0.00	0	50.00	1,000
Large Pipe Supports	TN	9	135.30	1,218	0.00	0	50.00	450
WT & WWT - Interconnecting SB Pipe	TN	3	180.40	541	0.00	0	50.00	150
Special Piping - Fiberglass -Above Ground	CY	80	21.60	1,728	35.00	2,800	0.00	0
Hangers & Supports - Large Bore	TN	8	180.40	1,443	0.00	0	50.00	400
Large Pipe Supports	TN	15	180.40	2,706	0.00	0	50.00	750
WT & WWT - Interconnecting LB Pipe S	TN	79	180.40	14,252	0.00	0	50.00	3,950
Special Piping - Fiberglass -Above Ground	CY	10	21.60	216	35.00	350	0.00	0
Special Piping - Fiberglass -Above Ground	CY	8	21.60	173	35.00	280	0.00	0
Special Piping - Fiberglass -Above Ground	CY	22	21.60	475	35.00	770	0.00	0
Special Piping - Fiberglass -Above Ground	CY	11	21.60	238	35.00	385	0.00	0

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Special Piping - Fiberglass -Above Ground	CY	338	21.60	7,301	35.00	11,830	0.00	0
WT & WWT - Oily Water Separator Syst	TN	4	180.40	722	0.00	0	50.00	200
WT & WWT - WWT System	TN	7	180.40	1,263	0.00	0	50.00	350
WT & WWT - Oily Water Separator Syst	TN	1	180.40	180	0.00	0	50.00	50
WT & WWT - WWT System	TN	6	180.40	1,082	0.00	0	50.00	300
WWT TANKS	TN	44	180.40	7,938	0.00	0	50.00	2,200
WT & WWT - Oily Water Separator Syst	TN	3	180.40	541	0.00	0	50.00	150
Large Pipe Supports	TN	6	135.30	812	0.00	0	50.00	300
2" & Under Carbon Steel Above Ground	TN	6	180.40	1,082	0.00	0	50.00	300
Small Piping - Carbon Steel	TN	6	180.40	1,082	0.00	0	50.00	300
ELT 2.5" & > - 2.5" - 4" Carbon Steel Pipe	TN	19	180.40	3,428	0.00	0	50.00	950
Large Pipe Supports	TN	3	180.40	541	0.00	0	50.00	150
6" - 8" Carbon Steel Pipe Above Ground	TN	5	180.40	902	0.00	0	50.00	250
2.5" & > - 6"-8" Carbon Steel Pipe	TN	52	180.40	9,381	0.00	0	50.00	2,600
10" - 14" Carbon Steel Pipe Above Ground	TN	28	135.30	3,788	0.00	0	50.00	1,400
2.5" & > - 10"-14" Carbon Steel Pipe	TN	16	135.30	2,165	0.00	0	50.00	800
Pump/Tank/Heat - Service Water Pumps	TN	3	135.30	406	0.00	0	50.00	150
Reinforced Concrete - Utility Rack Foundations	CY	343	54.00	18,522	35.00	12,005	0.00	0
Reinforced Concrete - Utility Rack Foundations	CY	308	54.00	16,632	35.00	10,780	0.00	0
Reinforced Concrete - Foundations	CY	189	54.00	10,206	35.00	6,615	0.00	0
Reinforced Concrete - Walls	CY	186	54.00	10,044	35.00	6,510	0.00	0
Reinforced Concrete - Other	CY	107	54.00	5,778	35.00	3,745	0.00	0
Reinforced Concrete - Other	CY	6	54.00	324	35.00	210	0.00	0
Utility Rack- Structural Steel	TN	87	135.30	11,771	0.00	0	50.00	4,350
Utility Rack- Structural Steel	TN	28	135.30	3,788	0.00	0	50.00	1,400
Reinforced Concrete - Slab on Grade	CY	80	54.00	4,320	35.00	2,800	0.00	0
Reinforced Concrete - Other	CY	16	54.00	864	35.00	560	0.00	0
Architectural Features - Block Work	CY	17	21.60	367	35.00	595	0.00	0
Architectural Features - Stucco	CY	2	21.60	43	35.00	70	0.00	0
Precast Concrete - Roof Panels	CY	9	21.60	194	35.00	315	0.00	0
Reinforced Concrete - Other	CY	15	54.00	810	35.00	525	0.00	0
Structural Steel - RO Training Building	TN	25	135.30	3,383	0.00	0	50.00	1,250
Architectural Features - Roof Decking	CY	27	21.60	583	35.00	945	0.00	0
Architectural Features - Block Work	CY	27	21.60	583	35.00	945	0.00	0
Architectural Features - Stucco	CY	3	21.60	65	35.00	105	0.00	0
Precast Concrete - Roof Panels	CY	16	21.60	346	35.00	560	0.00	0
WT & WWT - Chemical Feed Equipment	TN	3	180.40	541	0.00	0	50.00	150
Water Treatment SBP	TN	4	180.40	722	0.00	0	50.00	200
WT & WWT - Interconnecting SB Pipe	TN	3	180.40	541	0.00	0	50.00	150
Water Treatment LBP	TN	3	180.40	541	0.00	0	50.00	150
WT & WWT - Interconnecting LB Pipe S	TN	178	180.40	32,111	0.00	0	50.00	8,900
Reinforced Concrete - Slab on Grade	CY	28	54.00	1,512	35.00	980	0.00	0
Account 341 Totals				2,025,580		1,648,490		323,750
Account 342: Fuel Holders, Producers, and Accessories								
Trenwa	CY	134	21.60	2,894	35.00	4,690	0.00	0
2.5" & > - 10"-14" CS Pipe	TN	13	135.30	1,759	0.00	0	50.00	650
2.5" & > - 20"-30" CS Pipe	TN	9	135.30	1,218	0.00	0	50.00	450
Pipe < 4" - Light Oil	TN	9	135.30	1,218	0.00	0	50.00	450
Pipe 4" Or > - Light Oil	TN	10	135.30	1,353	0.00	0	50.00	500
Valve, Manual Light Oil 4">	TN	1	135.30	135	0.00	0	50.00	50
Pipe Support 4" Or Larger	TN	2	135.30	271	0.00	0	50.00	100
Reinforced Concrete -Jet Fuel Line 8"	CY	2	54.00	108	35.00	70	0.00	0
Pipe 4" Or > -Jet Fuel 8"	TN	31	135.30	4,194	0.00	0	50.00	1,550
Valve, Manual - Jet Fuel 8"	TN	2	135.30	271	0.00	0	50.00	100
Account 342 Totals				13,421		4,760		3,850
Account 343: Prime Movers								
Firewalls	CY	245	21.60	5,292	35.00	8,575	0.00	0
Cooling Water Heat Exchangers	TN	11	180.40	1,984	0.00	0	50.00	550
L.P. Heater Drain Pump	TN	5	180.40	902	0.00	0	50.00	250
Well Cooling Water Pump	TN	3	180.40	541	0.00	0	50.00	150
Boiler Fill and Wash Pump	TN	1	180.40	180	0.00	0	50.00	50

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Boiler Feed Pumps	TN	68	180.40	12,267	0.00	0	50.00	3,400
Concrete	CY	130	21.60	2,808	35.00	4,550	0.00	0
Condensate Storage Tank & Equip	TN	38	180.40	6,855	0.00	0	50.00	1,900
Condensate Storage Tank Fnd	CY	12	21.60	259	35.00	420	0.00	0
Piping	TN	402	210.00	84,420	0.00	0	50.00	20,100
Insulation	CY	458	41.00	18,778	19.00	8,702	0.00	0
Misc Steel & Equipment	TN	236	180.40	42,574	0.00	0	50.00	11,800
Pipe < 4" Condens Wash	TN	3	135.30	406	0.00	0	50.00	150
Instrumentation - Instrument Tubing	TN	1	291.10	291	0.00	0	50.00	50
Concrete - Other	CY	659	21.60	14,234	35.00	23,065	0.00	0
Large Pipe Supports	TN	7	135.30	947	0.00	0	50.00	350
2" & < Pipe SS Above Ground	TN	2	180.40	361	0.00	0	300.00	600
2.5" - 4" SS Pipe Above Ground	TN	4	180.40	722	0.00	0	300.00	1,200
2.5" & > - 2.5" - 4" SS Pipe	TN	9	180.40	1,624	0.00	0	300.00	2,700
Hangers & Supports - LB	TN	4	135.30	541	0.00	0	50.00	200
Large Pipe Supports	TN	15	135.30	2,030	0.00	0	50.00	750
6" - 8" SS Pipe Above Ground	TN	4	135.30	541	0.00	0	300.00	1,200
2.5" & > - 6" - 8" SS Pipe	TN	68	135.30	9,200	0.00	0	300.00	20,400
WT & WWT - Chemical Feed Equipment	TN	6	135.30	812	0.00	0	50.00	300
Water Treatment Tanks	TN	33	135.30	4,465	0.00	0	50.00	1,650
WT & WWT - Chemical Feed Equipment	TN	5	135.30	677	0.00	0	50.00	250
Pump/Tank/Heat - Field Fabricated Tanks	TN	1	135.30	135	0.00	0	50.00	50
Pump/Tank/Heat - Condensate Pumps	TN	5	135.30	677	0.00	0	50.00	250
Account 343 Totals				214,524		45,312		68,300
Account 345: Accessory Electric Equipment								
Concrete - Ductbank	CY	43	21.60	929	35.00	1,505	0.00	0
Steel/Ductbank	TN	3	135.30	406	0.00	0	50.00	150
Conduit 2" OR >/Firemain	TN	1	291.10	291	0.00	0	50.00	50
Cable Tray	TN	11	291.10	3,202	0.00	0	50.00	550
Duct Bank	TN	3	291.10	873	0.00	0	50.00	150
MCC Switchgear Section	TN	50	180.40	9,020	0.00	0	50.00	2,500
Wire < 4/0 (PWR)/Firemain	TN	1	492.00	492	0.00	0	50.00	50
Concrete	CY	12	21.60	259	35.00	420	0.00	0
Wire < 4/0 (PWR)	TN	3	492.00	1,476	0.00	0	760.00	2,280
Conduit 2" Or > - Cond & Raceway	TN	21	291.10	6,113	0.00	0	50.00	1,050
Sched Conduit - RGS Cond W/Supports 2.5" >	TN	14	291.10	4,075	0.00	0	50.00	700
Sched Conduit - RGS Cond W/Supports 2.5" >	TN	25	291.10	7,278	0.00	0	50.00	1,250
Hangers & Supports - 2" Or >	TN	1	135.30	135	0.00	0	50.00	50
Conduit < 2"-Conduit & Raceway	TN	8	291.10	2,329	0.00	0	50.00	400
Sched Conduit - RGS Cond W/Supports < 2"	TN	18	291.10	5,240	0.00	0	50.00	900
Sched Conduit - RGS Cond W/Supports < 2"	TN	16	291.10	4,658	0.00	0	50.00	800
Sched Conduit - Pull Boxes	TN	1	291.10	291	0.00	0	50.00	50
Light & Comm Co - Other	TN	1	291.10	291	0.00	0	50.00	50
Cable Tray/Fittings W/Supports	TN	18	291.10	5,240	0.00	0	50.00	900
Concrete-Duct Bank	CY	175	21.60	3,780	35.00	6,125	0.00	0
Reinforced Concrete - Ductbank	CY	57	54.00	3,078	35.00	1,995	0.00	0
Pre-Cast Manhole	CY	11	21.60	238	35.00	385	0.00	0
Sched Wire & Cable - 4KV & > 1/C All Sizes	TN	20	492.00	9,840	0.00	0	760.00	15,200
Sched Wire & Cable - 4KV & > 1/C All Sizes	TN	11	492.00	5,412	0.00	0	760.00	8,360
Sched Wire & Cable - Instrum. Cable - All Sizes	TN	3	492.00	1,476	0.00	0	760.00	2,280
Load Center, Bus - Switchgear	TN	5	180.40	902	0.00	0	50.00	250
Load Center, Bus - Switchgear	TN	3	180.40	541	0.00	0	50.00	150
MCC & Low Volt - MCC Switchgear Section	TN	4	180.40	722	0.00	0	50.00	200
MCC & Low Volt - MCC Switchgear Section	TN	2	180.40	361	0.00	0	50.00	100
Sched. Wire & Cable - 600/Volt 1/C #6 & > PC	TN	15	492.00	7,380	0.00	0	760.00	11,400
Sched. Wire & Cable - 600/Volt 1/C #6 & > PC	TN	3	492.00	1,476	0.00	0	760.00	2,280
Sched. Wire & Cable - 600/Volt M/C #8 & > PC	TN	1	492.00	492	0.00	0	760.00	760
Sched. Wire & Cable - 600/Volt M/C #8 & > PC	TN	25	492.00	12,300	0.00	0	760.00	19,000
Sched Wire & Cable - 600/Volt M/C #6 & < CC	TN	8	492.00	3,936	0.00	0	760.00	6,080
Wire 4/0OR>(PWR)-600V(PWR)	TN	2	492.00	984	0.00	0	760.00	1,520
MCC Switchgear Section	TN	50	180.40	9,020	0.00	0	50.00	2,500
Wire < 4/0 (PWR)-600V PWR	TN	4	492.00	1,968	0.00	0	760.00	3,040

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Account 345 Totals				116,503		10,430		85,000
Total Common Facilities				2,370,027		1,708,992		480,900
Unit 4								
Account 341: Structures & Improvements								
Intake Structure - Concrete	CY	1238	54.00	66,852	35.00	43,330	0.00	0
Grills, Screens & Hoists	TN	22	291.10	6,404	0.00	0	50.00	1,100
Intake Conduit	CY	628	54.00	33,912	35.00	21,980	0.00	0
4" CI Pipe - Site	TN	35	135.30	4,736	0.00	0	50.00	1,750
6"-8" CI Pipe - Site	TN	20	135.30	2,706	0.00	0	50.00	1,000
10"-14" RC Pipe	TN	3	54.00	162	35.00	105	0.00	0
20"-24" RC Pipe - Site	TN	9	54.00	486	35.00	315	0.00	0
2.5"-3" Fiberglass Pipe	CY	3	21.60	65	35.00	105	0.00	0
4" Fiberglass Pipe	CY	7	21.60	151	35.00	245	0.00	0
6"-8" Fiberglass Pipe	CY	16	21.60	346	35.00	560	0.00	0
10"-14" Fiberglass Pipe	CY	11	21.60	238	35.00	385	0.00	0
Reinforced Concrete - Holding Tanks	CY	177	54.00	9,558	35.00	6,195	0.00	0
Culvert/Basin - Reinforced Concrete	CY	109	54.00	5,886	35.00	3,815	0.00	0
Misc. Steel - Grating	TN	6	291.10	1,747	0.00	0	50.00	300
Precast Concrete - Manholes	CY	17	21.60	367	35.00	595	0.00	0
2.5"-3" CI Pipe	TN	2	135.30	271	0.00	0	50.00	100
Light Pole Foundation - Reinforced Concrete	CY	125	54.00	6,750	35.00	4,375	0.00	0
Fire Water Tank (A)	TN	115	180.40	20,746	0.00	0	50.00	5,750
Vehicle Protection Posts	CY	7	21.60	151	35.00	245	0.00	0
Thrusts Blocks - Reinforced Concrete	CY	309	54.00	16,686	35.00	10,815	0.00	0
6"-8" DI Pipe Fire	TN	1	135.30	135	0.00	0	50.00	50
10"-14" DI Pipe, Fire	TN	1	135.30	135	0.00	0	50.00	50
6"-8" HD Poly Fire Line	TN	39	135.30	5,277	0.00	0	50.00	1,950
10"-14" HD Poly Fire Line	TN	97	135.30	13,124	0.00	0	50.00	4,850
Valve, 6", 8", 12" Fire	TN	246	135.30	33,284	0.00	0	50.00	12,300
10" - 14" Carbon Steel Pipe Above Ground	TN	8	180.40	1,443	0.00	0	50.00	400
Hydrant - 6" - EA Fire Protectio.	TN	6	180.40	1,082	0.00	0	50.00	300
PB Slab On Grade - Reinforced Concrete	CY	1,231	54.00	66,474	35.00	43,085	0.00	0
PB Misc SQG Pads - Reinforced Conc	CY	10	54.00	540	35.00	350	0.00	0
4" CI Pipe	TN	8	135.30	1,082	0.00	0	50.00	400
6"-8" CI Pipe	TN	4	135.30	541	0.00	0	50.00	200
4" Fiberglass Pipe Underground	CY	7	21.60	151	35.00	245	0.00	0
6"-8" PVC Pipe	CY	24	21.60	518	35.00	840	0.00	0
Rip Rap, Fabric, Sandbags	CY	385	21.60	8,316	35.00	13,475	0.00	0
Reinforced Concrete - Slab on Grade	CY	756	54.00	40,824	35.00	26,460	0.00	0
Reinforced Concrete - Other	CY	172	54.00	9,288	35.00	6,020	0.00	0
Reinforced Concrete - Elevated Slabs	CY	604	54.00	32,616	35.00	21,140	0.00	0
Reinforced Concrete - Walls	CY	73	54.00	3,942	35.00	2,555	0.00	0
CTB - Structural Steel	TN	1,342	135.30	181,573	0.00	0	50.00	67,100
CTB - Miscellaneous Steel	TN	76	291.10	22,124	0.00	0	50.00	3,800
Structural Steel - Bldg Girts/Wall Framing	TN	174	135.30	23,542	0.00	0	50.00	8,700
Architectural Features - Block Work	CY	102	21.60	2,203	35.00	3,570	0.00	0
CTB - Roll Up Doors	TN	1	180.40	180	0.00	0	50.00	50
Metal Decking - Elevated Slabs	TN	27	180.40	4,871	0.00	0	50.00	1,350
Architectural Features - Roof Decking	CY	461	21.60	9,958	35.00	16,135	0.00	0
Floor Drainage Trench	CY	13	21.60	281	35.00	455	0.00	0
Reinforced Concrete - Foundations	CY	54	54.00	2,916	35.00	1,890	0.00	0
Misc. Steel - Duct Supports	TN	74	135.30	10,012	0.00	0	50.00	3,700
Misc. Cranes & Hoists	TN	40	135.30	5,412	0.00	0	50.00	2,000
Reinforced Concrete - Pile Caps & Tie Beams	CY	879	54.00	47,466	35.00	30,765	0.00	0
Reinforced Concrete - Piers, Pads, Curbs, etc.	CY	68	54.00	3,672	35.00	2,380	0.00	0
Intake Structure Hoist	TN	5	135.30	677	0.00	0	50.00	250
Reinforced Concrete - Other	CY	2	54.00	108	35.00	70	0.00	0
Handrail/Check Plate	TN	2	291.10	582	0.00	0	50.00	100
20" - 30" Fiberglass Pipe Above Ground	CY	176	21.60	3,802	35.00	6,160	0.00	0
Intake/Open Cooling Pump	TN	24	135.30	3,247	0.00	0	50.00	1,200
10" - 14" Fiberglass Pipe Above Ground	CY	2	21.60	43	35.00	70	0.00	0

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WT Pits Pumps	TN	6	180.40	1,082	0.00	0	50.00	300
Reinforced Concrete - Pits, Sumps & Ramps	CY	78	54.00	4,212	35.00	2,730	0.00	0
Reinforced Concrete - Pits, Sumps & Ramps	CY	114	54.00	6,156	35.00	3,990	0.00	0
36" Fiberglass Pipe	CY	15	21.60	324	35.00	525	0.00	0
OW Pit Pumps	TN	4	180.40	722	0.00	0	50.00	200
2" PVC Pipe	CY	3	21.60	65	35.00	105	0.00	0
2.5"-3" PVC Pipe	CY	2	21.60	43	35.00	70	0.00	0
4" PVC Pipe Potable Water	CY	2	21.60	43	35.00	70	0.00	0
6"-8" Potable Water - PVC	CY	33	21.60	713	35.00	1,155	0.00	0
Valve, Manual, Potable	TN	2	180.40	361	0.00	0	50.00	100
Service Water Tank	TN	115	180.40	20,746	0.00	0	50.00	5,750
Reinforced Concrete - Utility Rack Foundations	CY	657	54.00	35,478	35.00	22,995	0.00	0
Reinforced Concrete - Other	CY	21	54.00	1,134	35.00	735	0.00	0
Reinforced Concrete - Other	CY	16	54.00	864	35.00	560	0.00	0
Precast Concrete - Other	CY	3	21.60	65	35.00	105	0.00	0
Precast Concrete - Other	CY	3	21.60	65	35.00	105	0.00	0
Utility Rack- Structural Steel	TN	463	135.30	62,644	0.00	0	50.00	23,150
Utility Rack Miscellaneous Steel	TN	26	291.10	7,569	0.00	0	50.00	1,300
Utility Rack - Grating	TN	29	291.10	8,442	0.00	0	50.00	1,450
Reinforced Concrete - Other	CY	6	54.00	324	35.00	210	0.00	0
EP Misc & Structural Steel	TN	26	135.30	3,518	0.00	0	50.00	1,300
Misc. Steel - Boiler Cavity	TN	31	291.10	9,024	0.00	0	50.00	1,550
Architectural Features - Block Work	CY	9	21.60	194	35.00	315	0.00	0
Reinforced Concrete - Piers, Pads, Curbs, etc.	CY	12	54.00	648	35.00	420	0.00	0
Reinforced Concrete - Elevated Slabs	CY	315	54.00	17,010	35.00	11,025	0.00	0
Reinforced Concrete - Slab On Grade	CY	493	54.00	26,622	35.00	17,255	0.00	0
Reinforced Concrete - Walls	CY	90	54.00	4,860	35.00	3,150	0.00	0
Structural Steel - Control Building	TN	433	135.30	58,585	0.00	0	50.00	21,650
CB - Miscellaneous Steel	TN	25	291.10	7,278	0.00	0	50.00	1,250
Structural Steel - Bldg Girts/Wall Framing	TN	30	291.10	8,733	0.00	0	50.00	1,500
Architectural Features - Block Work	CY	387	21.60	8,359	35.00	13,545	0.00	0
CB - Interior Finishes	CY	120	21.60	2,592	35.00	4,200	0.00	0
Metal Decking - Elevated Slabs	TN	17	180.40	3,067	0.00	0	50.00	850
Architectural Features - Roof Decking	CY	119	21.60	2,570	35.00	4,165	0.00	0
Reinforced Concrete - Pile Caps & Tie Beams	CY	336	54.00	18,144	35.00	11,760	0.00	0
Account 341 Totals				1,041,916		367,920		179,100
Account 342: Fuel Holders, Producers, and Accessories								
Firewalls	CY	122.5	21.60	2,646	35.00	4,288	0.00	0
Cooling Water Heat Exchangers	TN	5.3	180.40	956	0.00	0	50.00	265
L.P. Heater Drain Pump	TN	2.3	180.40	415	0.00	0	50.00	115
Well Cooling Water Pump	TN	1.45	180.40	262	0.00	0	50.00	73
Boiler Fill and Wash Pump	TN	1	180.40	180	0.00	0	50.00	50
Boiler Feed Pumps	TN	33.75	180.40	6,089	0.00	0	50.00	1,688
Concrete	CY	65	54.00	3,510	35.00	2,275	0.00	0
Condensate Storage Tank & Equipment	TN	19	180.40	3,428	0.00	0	50.00	950
Condensate Storage Tank foundation	CY	5.9	54.00	319	35.00	207	0.00	0
Piping	TN	200.8	180.40	36,224	0.00	0	50.00	10,040
Pipe Insulation	CY	229	41.00	9,389	19.00	4,351	0.00	0
Miscellaneous Steel & Equipment	TN	118	291.10	34,350	0.00	0	50.00	5,900
Trenwa	TN	106	180.40	19,122	0.00	0	50.00	5,300
20" - 24" CS Pipe	TN	43	180.40	7,757	0.00	0	50.00	2,150
20"-24" CS Pipe, Gas	TN	17	180.40	3,067	0.00	0	50.00	850
10" - 14" CS Pipe Above Ground	TN	9	180.40	1,624	0.00	0	50.00	450
Reinforced Concrete - Pits, Sumps & Ramps	CY	74	54.00	3,996	35.00	2,590	0.00	0
F.O. System - Reinforced Concrete	CY	28	54.00	1,512	35.00	980	0.00	0
Fuel Oil Line Encasement	CY	100	41.00	4,100	19.00	1,900	0.00	0
10" - 14" CS Pipe Above Ground	TN	12	135.30	1,624	0.00	0	50.00	600
4" CS Pipe, Gas	TN	3	135.30	406	0.00	0	50.00	150
6"-8" CS Pipe, Gas	TN	13	135.30	1,759	0.00	0	50.00	650
Reinforced Concrete - Foundations	CY	132	54.00	7,128	35.00	4,620	0.00	0
Fuel Treatment/Additive Tank	TN	8	180.40	1,443	0.00	0	50.00	400
Reinforced Concrete - Foundations	CY	39	54.00	2,106	35.00	1,365	0.00	0
Account 342 Totals				153,410		22,575		29,630

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Account 343: Prime Movers								
Reinforced Concrete - Pile Caps & Tie Beams	CY	845	54.00	45,630	35.00	29,575	0.00	0
Reinforced Concrete - Piers, Pads, Curbs, etc.	CY	181	54.00	9,774	35.00	6,335	0.00	0
Reinforced Concrete - Pits, Sumps & Ramps	CY	105	54.00	5,670	35.00	3,675	0.00	0
HRSG 4A - Base Plates	TN	20	180.40	3,608	0.00	0	50.00	1,000
HRSG 4B - Base Plates	TN	25	180.40	4,510	0.00	0	50.00	1,250
HRSG 4A - Top Casing & Roof Steel	TN	8	180.40	1,443	0.00	0	50.00	400
HRSG 4B - Top Casing & Roof Steel	TN	8	180.40	1,443	0.00	0	50.00	400
HRSG 4 Diffusers	TN	7	180.40	1,263	0.00	0	50.00	350
HRSG 4A - Inlet BD & SCR DT	TN	121	291.10	35,223	0.00	0	50.00	6,050
HRSG 4A - Inlet BD & SCR DT	TN	121	291.10	35,223	0.00	0	50.00	6,050
HRSG 4A - Miscellaneous Platforms & Stairs	TN	3	291.10	873	0.00	0	50.00	150
HRSG 4B - Miscellaneous Platforms & Stairs	TN	3	291.10	873	0.00	0	50.00	150
HRSG 4 Small Bore Pipe	TN	25	210.00	5,250	0.00	0	50.00	1,250
HRSG 4A - SM Pipe, Supports, Valves	TN	8	180.40	1,443	0.00	0	50.00	400
HRSG 4B - SM Pipe, Supports, Valves	TN	8	180.40	1,443	0.00	0	50.00	400
HRSG 4A - Silencers & Supports	TN	8	135.30	1,082	0.00	0	50.00	400
HRSG 4B - Silencers & Supports	TN	8	135.30	1,082	0.00	0	50.00	400
HRSG 4 Large Bore Pipe	TN	50	135.30	6,765	0.00	0	50.00	2,500
HRSG 4A - Large, Supports, Valves	TN	13	135.30	1,759	0.00	0	50.00	650
Interconnecting Large Pipe, Supports, Valves 4A	TN	8	135.30	1,082	0.00	0	50.00	400
Interconnecting Large Pipe, Supports, Valves 4A	TN	8	135.30	1,082	0.00	0	50.00	400
HRSG 4B - Large Pipe, Supports, Valves	TN	8	135.30	1,082	0.00	0	50.00	400
HRSG 4B - Large Pipe, Supports, Valves	TN	50	135.30	6,765	0.00	0	50.00	2,500
HRSG 4A - Modules	TN	1,632	102.50	167,280	0.00	0	50.00	81,600
HRSG 4B - Modules	TN	1,632	102.50	167,280	0.00	0	50.00	81,600
HRSG 4A - Instrumentation	TN	8	135.30	1,082	0.00	0	50.00	400
HRSG 4B - Instrumentation	TN	8	135.30	1,082	0.00	0	50.00	400
HRSG 4A - HP Drum, Tubes, Downcomers	TN	127	135.30	17,183	0.00	0	50.00	6,350
HRSG 4B - HP Drum, Tubes, Downcomers	TN	127	135.30	17,183	0.00	0	50.00	6,350
HRSG 4A - IP Drum, Tubes, Downcomers	TN	16	135.30	2,165	0.00	0	50.00	800
HRSG 4B - IP Drum, Tubes, Downcomers	TN	16	135.30	2,165	0.00	0	50.00	800
HRSG 4A - LP Drum, Tubes, Downcomers	TN	7	135.30	947	0.00	0	50.00	350
HRSG 4B - LP Drum, Tubes, Downcomers	TN	7	135.30	947	0.00	0	50.00	350
Hangers & Supports <= 4"	TN	3	180.40	541	0.00	0	50.00	150
2.5" - 4" CS Pipe Above Ground	TN	18	135.30	2,435	0.00	0	50.00	900
Hangers & Supports - LB	TN	42	135.30	5,683	0.00	0	50.00	2,100
6" - 8" CS Pipe Above Ground	TN	73	135.30	9,877	0.00	0	50.00	3,650
10" - 14" CS Pipe Above Ground	TN	127	135.30	17,183	0.00	0	50.00	6,350
6" - 8" CM Pipe Above Ground	TN	6	135.30	812	0.00	0	50.00	300
HRSG Feed Pumps	TN	6	180.40	1,082	0.00	0	50.00	300
Reinforced Concrete - Foundations	CY	22	54.00	1,188	35.00	770	0.00	0
Instrument Tubing & Sensing	TN	4	291.10	1,164	0.00	0	50.00	200
CT 4A	TN	506	87.50	44,275	0.00	0	50.00	25,300
CT 4B	TN	506	87.50	44,275	0.00	0	50.00	25,300
Diffuser Enclosure - HRSG 4A	TN	4	291.10	1,164	0.00	0	50.00	200
Diffuser Enclosure - HRSG 4B	TN	4	291.10	1,164	0.00	0	50.00	200
CT 4A - Interconnect Pipe	TN	8	180.40	1,443	0.00	0	50.00	400
CT 4B - Interconnect Pipe	TN	8	180.40	1,443	0.00	0	50.00	400
20" - 30" CS Pipe Above Ground	TN	1	135.30	135	0.00	0	50.00	50
Instrument Main Steam Piping	TN	3	135.30	406	0.00	0	50.00	150
2" & Under CM Pipe Above Ground	TN	14	135.30	1,894	0.00	0	50.00	700
2.5" - 4" CM Pipe Above Ground	TN	2	135.30	271	0.00	0	50.00	100
10" - 14" CS Pipe Above Ground	TN	18	135.30	2,435	0.00	0	50.00	900
10" - 14" CM Pipe Above Ground	TN	30	135.30	4,059	0.00	0	50.00	1,500
16" - 18" CM Pipe Above Ground	TN	151	135.30	20,430	0.00	0	50.00	7,550
HRSG Blowdown Tank	TN	7	135.30	947	0.00	0	50.00	350
Reinforced Concrete - Pits, Sumps & Ramps	CY	131	54.00	7,074	35.00	4,585	0.00	0
20" - 30" CS Pipe Above Ground	TN	76	135.30	10,283	0.00	0	50.00	3,800
20" - 30" CM Pipe Above Ground	TN	169	135.30	22,866	0.00	0	50.00	8,450
U4 Steam Turbine Equipment	TN	20	135.30	2,706	0.00	0	50.00	1,000
U4 Steam Turbine Piping	TN	13	135.30	1,759	0.00	0	50.00	650
Reinforced Concrete - Foundations	CY	30	54.00	1,620	35.00	1,050	0.00	0

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Condensate Tanks	TN	53	180.40	9,561	0.00	0	50.00	2,650
Insulation	CY	400	41.00	16,400	17.00	6,800	0.00	0
Reinforced Concrete - Foundations	CY	15	54.00	810	35.00	525	0.00	0
Architectural Features - Roof Decking	CY	7	54.00	378	35.00	245	0.00	0
Condenser Vacuum Pump	TN	4	180.40	722	0.00	0	50.00	200
Reinforced Concrete - Foundations	CY	40	54.00	2,160	35.00	1,400	0.00	0
Concrete - Stack Foundations	CY	345	54.00	18,630	35.00	12,075	0.00	0
Lube Oil Pit - Reinforced Concrete	CY	100	54.00	5,400	35.00	3,500	0.00	0
CT Lube Oil Pit - Grating	TN	1	291.10	291	0.00	0	50.00	50
L.O. Storage & Transfer - Grating	TN	3	291.10	873	0.00	0	50.00	150
2" & Under Stainless Steel Pipe Above Ground	TN	10	291.10	2,911	0.00	0	300.00	3,000
2.5" - 4" SS Pipe Above Ground	TN	3	291.10	873	0.00	0	300.00	900
CT 4A - Mechanical/Electrical Pkgs	TN	55	180.40	9,922	0.00	0	50.00	2,750
CT 4B - Mechanical/Electrical Pkgs	TN	55	180.40	9,922	0.00	0	50.00	2,750
6" - 8" SS Pipe Above Ground	TN	15	291.10	4,367	0.00	0	300.00	4,500
10" - 14" SS Pipe Above Ground	TN	3	291.10	873	0.00	0	300.00	900
CTB Bridge Crane	TN	88	135.30	11,906	0.00	0	50.00	4,400
Reinforced Concrete - Inlet Air Duct Foundations	CY	698	54.00	37,692	35.00	24,430	0.00	0
CT 4A - Ductwork	TN	33	180.40	5,953	0.00	0	50.00	1,650
CT 4B - Ductwork	TN	33	180.40	5,953	0.00	0	50.00	1,650
HRSG 4A - Duct	TN	5	180.40	902	0.00	0	50.00	250
HRSG 4A - Stack	TN	264	180.40	47,626	0.00	0	50.00	13,200
HRSG Unit 4 Stacks	CY	200	54.00	10,800	35.00	7,000	0.00	0
HRSG 4B - Stack	TN	264	180.40	47,626	0.00	0	50.00	13,200
HRSG 4B - Duct	TN	5	180.40	902	0.00	0	50.00	250
Reinforced Concrete - Foundations	CY	25	54.00	1,350	35.00	875	0.00	0
Reinforced Concrete - Other	CY	18	54.00	972	35.00	630	0.00	0
Cooling Water Heat Exchanger Shell	TN	22	180.40	3,969	0.00	0	50.00	1,100
16" - 18" CS Pipe Above Ground	TN	58	180.40	10,463	0.00	0	50.00	2,900
Closed Cooling H2O Pumps	TN	3	180.40	541	0.00	0	50.00	150
Account 343 Totals				1,033,051		103,470		352,050
Account 344: Generators								
Pedestal Concrete	CY	614	54.00	33,156	35.00	21,490	0.00	0
Exciter	TN	15	135.30	2,030	0.00	0	50.00	750
Turbo-Generator Unit	TN	508	102.50	52,070	0.00	0	50.00	25,400
Turbine Piping	TN	207	135.30	28,007	0.00	0	50.00	10,350
Turbine Insulation	CY	495	41.00	20,295	19.00	9,405	0.00	0
Turbine Copper	TN	46	400.00	18,400	0.00	0	710.00	32,660
Condenser Shell	TN	285	135.30	38,561	0.00	0	50.00	14,250
Condenser Tubes	TN	85.5	400.00	34,200	0.00	0	50.00	4,275
Circulating Water Pumps	TN	59	135.30	7,983	0.00	0	50.00	2,950
Condensate Pumps and Ejectors	TN	16	180.40	2,886	0.00	0	50.00	800
Concrete Foundations	CY	5.9	54.00	319	35.00	207	0.00	0
Miscellaneous Steel & Equipment	TN	32.4	291.10	9,432	0.00	0	50.00	1,620
Reinforced Concrete - Pedestal Basemat	CY	1,077	54.00	58,158	35.00	37,695	0.00	0
Reinforced Concrete - Pedestal Columns	CY	338	54.00	18,252	35.00	11,830	0.00	0
Reinforced Concrete - Pedestal Top Deck	CY	1,104	54.00	59,616	35.00	38,640	0.00	0
Hydrogen Supply Tank	TN	5	180.40	902	0.00	0	50.00	250
Control Board	CY	13	21.60	281	35.00	455	0.00	0
Account 344 Totals				384,546		119,722		93,305
Account 345: Accessory Electric Equipment								
Equipment Foundations	CY	46.5	54.00	2,511	35.00	1,628	0.00	0
Structures & Supports	CY	20.97	54.00	1,132	35.00	734	0.00	0
Concrete	CY	46.4	54.00	2,506	35.00	1,624	0.00	0
Service Transformer - High & Low Voltage	TN	8	180.40	1,443	0.00	0	50.00	400
Startup Transformer	TN	9	180.40	1,624	0.00	0	50.00	450
Storage Batteries & Equipment	TN	45	180.40	8,118	0.00	0	50.00	2,250
Concrete Conduit & Ducts	CY	840	54.00	45,360	35.00	29,400	0.00	0
Cable Trays	TN	4.2	291.10	1,223	0.00	0	50.00	210
Power & Control Wiring	TN	52.5	492.00	25,830	0.00	0	760.00	39,900
Generator Leads	TN	16	492.00	7,872	0.00	0	540.00	8,640
Instrument Transformers	TN	1.8	180.40	325	0.00	0	50.00	90

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2400v Switchgear	TN	18	180.40	3,247	0.00	0	50.00	900
480v Switchgear	TN	15	180.40	2,706	0.00	0	50.00	750
Transformer Copper	TN	21	300.00	6,216	0.00	0	710.00	14,711
Reinforced Concrete - Walls	CY	21	54.00	1,134	35.00	735	0.00	0
Reinforced Concrete - Foundations	CY	88	54.00	4,752	35.00	3,080	0.00	0
Reinforced Concrete - Piers, Pads, Curbs, etc.	CY	28	54.00	1,512	35.00	980	0.00	0
Isophase Bus & AS - Excitation Transformer	TN	8	180.40	1,443	0.00	0	50.00	400
DC&AC Equipment - Charger/Panel	TN	3	180.40	541	0.00	0	50.00	150
Reinforced Concrete - Foundations	CY	60	54.00	3,240	35.00	2,100	0.00	0
Reinforced Concrete - Piers, Pads, Curbs, etc.	CY	13	54.00	702	35.00	455	0.00	0
Reinforced Concrete - Walls	CY	35	54.00	1,890	35.00	1,225	0.00	0
Isophase Bus & AS -Auxiliary Power Transformer	TN	10	180.40	1,804	0.00	0	50.00	500
Reinforced Concrete - Foundations	CY	65	54.00	3,510	35.00	2,275	0.00	0
Reinforced Concrete - Walls	CY	26	54.00	1,404	35.00	910	0.00	0
Reinforced Concrete - Piers, Pads, Curbs, etc.	CY	10	54.00	540	35.00	350	0.00	0
Isophase Bus & AS - Start-up Transformer	TN	8	180.40	1,443	0.00	0	50.00	400
DC&AC Equipment - Charger/Panel	TN	2	180.40	361	0.00	0	50.00	100
DC&AC Equipment - Charger/Panel	TN	1	180.40	180	0.00	0	50.00	50
Ground Cable	TN	7	492.00	3,444	0.00	0	50.00	350
Ground Cable	TN	10	492.00	4,920	0.00	0	50.00	500
Cathodic Protection	TN	1	291.10	291	0.00	0	50.00	50
Conduit 2.5" or > RGS	TN	93	291.10	27,072	0.00	0	50.00	4,650
Conduit 2" Or < RGS	TN	173	291.10	50,360	0.00	0	50.00	8,650
Pull Boxes (all)	TN	4	180.40	722	0.00	0	50.00	200
Unscheduled Conduit	TN	18	291.10	5,240	0.00	0	50.00	900
Cable Tray	TN	174	291.10	50,651	0.00	0	50.00	8,700
Pre-Cast Electric Manhole	CY	136	21.60	2,938	35.00	4,760	0.00	0
Other Wire & Cable - Grounding	TN	6	492.00	2,952	0.00	0	760.00	4,560
Conduit 2"Or> Duct Bank (PVC)	TN	1	291.10	291	0.00	0	50.00	50
Isophase Bus & AS - Isophase Bus,18KV 4A	TN	1	291.10	291	0.00	0	50.00	50
Isophase Bus Duct	TN	2	291.10	582	0.00	0	50.00	100
Isophase Bus 18KV 4B	TN	1	291.10	291	0.00	0	50.00	50
Isophase Bus & AS - Non-Seg & D.C. Bus	TN	1	291.10	291	0.00	0	50.00	50
Isophase Bus & AS - PT & Surge Cubicle	TN	2	291.10	582	0.00	0	50.00	100
Isophase Bus & AS - Generator Bus Grdg T/F	TN	5	291.10	1,456	0.00	0	50.00	250
Reinforced Concrete - Foundations	CY	55	54.00	2,970	35.00	1,925	0.00	0
Reinforced Concrete - Piers, Pads, Curbs, etc.	CY	9	54.00	486	35.00	315	0.00	0
Relay Racks w/Wire, Tube	TN	3	180.40	541	0.00	0	710.00	2,130
4KV & > Cable (PWR)	TN	61	492.00	30,012	0.00	0	760.00	46,360
Instrument Cable	TN	13	492.00	6,396	0.00	0	760.00	9,880
Unscheduled Cable	TN	5	492.00	2,460	0.00	0	600.00	3,000
Load Center, Bus, Switchgear	TN	28	291.10	8,151	0.00	0	50.00	1,400
MCC & LowVolt - MCC Switchgear Section	TN	10	291.10	2,911	0.00	0	50.00	500
#6 & > Cable (PWR)	TN	15	492.00	7,380	0.00	0	760.00	11,400
#8 & < Cable (PWR)	TN	4	492.00	1,968	0.00	0	760.00	3,040
Control Cable	TN	25	492.00	12,300	0.00	0	760.00	19,000
Reinforced Concrete - Foundations	CY	129	54.00	6,966	35.00	4,515	0.00	0
Concrete	CY	100	21.60	2,160	35.00	3,500	0.00	0
Cooling System	CY	68	21.60	1,469	35.00	2,380	0.00	0
Wire 4/0 Or > (PWR)	TN	1	492.00	492	0.00	0	760.00	760
Wire 4/0 OR > (PWR)	TN	0	492.00	0	0.00	0	760.00	0
Transformer	TN	15	135.30	2,030	0.00	0	50.00	750
Account 345 Totals				375,835		62,890		197,331
Account 346: Miscellaneous Power Plant Equipment								
2" & < CS Pipe Above Ground	TN	39	180.40	7,036	0.00	0	50.00	1,950
Reinforced Concrete - Foundations	CY	257	54.00	13,878	35.00	8,995	0.00	0
Instrument Air Tank	TN	3	135.30	406	0.00	0	50.00	150
Instrument Air Compressor	TN	5	135.30	677	0.00	0	50.00	250
Instrument Air Dryer	TN	1	135.30	135	0.00	0	50.00	50
Account 346 Totals				22,131		8,995		2,400
Account 353: Substation Equipment								
Steel Structures & Supports	TN	12.5	135.30	1,691	0.00	0	50.00	625

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Concrete Structures	CY	92.75	21.60	2,003	35.00	3,246	0.00	0
Manholes and Handholes	CY	7.4	21.60	160	35.00	259	0.00	0
Main Transformers - Foundation	CY	150	54.00	8,100	35.00	5,250	0.00	0
Oil Breakers - Foundation	CY	18.75	54.00	1,013	35.00	656	0.00	0
Main Power Transformer	TN	125.5	180.40	22,640	0.00	0	50.00	6,275
Transformer Copper	TN	50	300.00	15,060	0.00	0	710.00	35,642
Conduit & Duct	TN	1.6	291.10	466	0.00	0	50.00	80
Concrete	CY	128.5	21.60	2,776	35.00	4,498	0.00	0
Insulators	TN	25.8	291.10	7,510	0.00	0	50.00	1,290
Bus & Copper Tubing	TN	0.225	300.00	68	0.00	0	710.00	160
Oil Circuit Breakers	TN	351.875	291.10	102,431	0.00	0	50.00	17,594
Air Brake & Disconnect Switches	TN	105.42	180.40	19,018	0.00	0	50.00	5,271
Lightning & Surge Protection	TN	16	180.40	2,886	0.00	0	50.00	800
Instrument Transformers	TN	28.2	180.40	5,087	0.00	0	50.00	1,410
Account 353 Totals				190,909		13,909		69,147
Total Unit 4				3,201,598		699,481		922,963
Unit 5								
Account 341: Structures & Improvements								
Intake Structure	CY	1238	54.00	66,852	35.00	43,330	0.00	0
Grills, Screens & Hoists	TN	22	291.10	6,404	0.00	0	50.00	1,100
Intake Conduit	CY	627	54.00	33,858	35.00	21,945	0.00	0
Reinforced Concrete - Other	CY	58	54.00	3,132	35.00	2,030	0.00	0
Reinforced Concrete - Foundations	CY	57	54.00	3,078	35.00	1,995	0.00	0
Concrete - Piers, Pads, Curbs, etc.	CY	31	21.60	670	35.00	1,085	0.00	0
Intake Structure Hoist	TN	5	180.40	902	0.00	0	50.00	250
20" - 30" Fiberglass Pipe Above Ground	CY	157	21.60	3,391	35.00	5,495	0.00	0
Intake/Open Cooling Pump	TN	24	135.30	3,247	0.00	0	50.00	1,200
Reinforced Concrete - Pits, Sumps & Ramps	CY	64	54.00	3,456	35.00	2,240	0.00	0
Reinforced Concrete - Utility Rack Foundations	CY	532	54.00	28,728	35.00	18,620	0.00	0
Reinforced Concrete - Other	CY	7	54.00	378	35.00	245	0.00	0
Utility Rack - Structural Steel	TN	231	180.40	41,672	0.00	0	50.00	11,550
Utility Rack - Miscellaneous Steel	TN	13	291.10	3,784	0.00	0	50.00	650
Utility Racks Grating	TN	24	291.10	6,986	0.00	0	50.00	1,200
Account 341 Totals				206,539		96,985		15,950
Account 342: Fuel Holders, Producers, and Accessories								
Firewalls	CY	122.5	21.60	2,646	35.00	4,288	0.00	0
Cooling Water Heat Exchangers	TN	5.3	180.40	956	0.00	0	50.00	265
L. P. Heater Drain Pump	TN	2.3	180.40	415	0.00	0	50.00	115
Well Cooling Water Pump	TN	1.45	180.40	262	0.00	0	50.00	73
Boiler Fill and Wash Pump	TN	1	180.40	180	0.00	0	50.00	50
Boiler Feed Pumps	TN	33.75	180.40	6,089	0.00	0	50.00	1,688
Concrete	CY	65	54.00	3,510	35.00	2,275	0.00	0
Condensate Storage Tank & Equipment	TN	19	180.40	3,428	0.00	0	50.00	950
Condensate Storage Tank foundation	CY	5.9	54.00	319	35.00	207	0.00	0
Piping	TN	200.8	180.40	36,224	0.00	0	50.00	10,040
Pipe Insulation	CY	229	41.00	9,389	19.00	4,351	0.00	0
Miscellaneous Steel & Equipment	TN	118	291.10	34,350	0.00	0	50.00	5,900
10" - 14" CS Pipe - Above Ground	TN	5	135.30	677	0.00	0	50.00	250
Fuel Oil/Gas Pump	TN	3	135.30	406	0.00	0	50.00	150
Reinforced Concrete - Foundations	CY	47	54.00	2,538	35.00	1,645	0.00	0
Account 342 Totals				101,387		12,765		19,480
Account 343: Prime Movers								
Concrete - Piers, Pads, Curbs, etc.	CY	182	21.60	3,931	35.00	6,370	0.00	0
Reinforced Concrete - Pits, Sumps & Ramps	CY	101	54.00	5,454	35.00	3,535	0.00	0
HRSG 5A - Base Plates	TN	20	102.50	2,050	0.00	0	50.00	1,000
HRSG 5B - Base Plates	TN	20	102.50	2,050	0.00	0	50.00	1,000
HRSG 5A - Top Casing & Roof Steel	TN	8	180.40	1,443	0.00	0	50.00	400
HRSG 5B - Top Casing & Roof Steel	TN	8	180.40	1,443	0.00	0	50.00	400
HRSG 5 Diffusers	TN	7	180.40	1,263	0.00	0	50.00	350

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HRSG 5A - Inlet Board & SCR DT	TN	121	135.30	16,371	0.00	0	50.00	6,050
HRSG 5B - Inlet Board & SCR DT	TN	121	135.30	16,371	0.00	0	50.00	6,050
HRSG 5A - Miscellaneous Platforms & Stairs	TN	3	291.10	873	0.00	0	50.00	150
HRSG 5B - Miscellaneous Platforms & Stairs	TN	3	291.10	873	0.00	0	50.00	150
HRSG 5 Small Bore Pipe	TN	25	180.40	4,510	0.00	0	50.00	1,250
HRSG 5A - Small Bore Pipe, Supports, Valves	TN	8	180.40	1,443	0.00	0	50.00	400
HRSG 5B - Small Bore Pipe, Supports, Valves	TN	8	180.40	1,443	0.00	0	50.00	400
HRSG 5A - Silencers & Supports	TN	8	180.40	1,443	0.00	0	50.00	400
HRSG 5A - Silencers & Supports	TN	8	180.40	1,443	0.00	0	50.00	400
HRSG 5A - Modules	TN	1,632	102.50	167,280	0.00	0	50.00	81,600
HRSG 5B - Modules	TN	1,632	102.50	167,280	0.00	0	50.00	81,600
HRSG 5 Large Bore Pipe	TN	50	135.30	6,765	0.00	0	50.00	2,500
HRSG 5A - Large Bore Pipe, Supports, Valves	TN	8	135.30	1,082	0.00	0	50.00	400
HRSG 5B - Large Bore Pipe, Supports, Valves	TN	8	135.30	1,082	0.00	0	50.00	400
HRSG 5A - Instrumentation	TN	8	135.30	1,082	0.00	0	50.00	400
HRSG 5B - Instrumentation	TN	8	135.30	1,082	0.00	0	50.00	400
HRSG 5A - HP Drum, Tubes, Downcomers	TN	127	135.30	17,183	0.00	0	50.00	6,350
HRSG 5B - HP Drum, Tubes, Downcomers	TN	127	135.30	17,183	0.00	0	50.00	6,350
HRSG 5A - IP Drum, Tubes, Downcomers	TN	16	135.30	2,165	0.00	0	50.00	800
HRSG 5B - IP Drum, Tubes, Downcomers	TN	16	135.30	2,165	0.00	0	50.00	800
HRSG 5A - LP Drum, Tubes, Downcomers	TN	7	135.30	947	0.00	0	50.00	350
HRSG 5B - LP Drum, Tubes, Downcomers	TN	7	135.30	947	0.00	0	50.00	350
Hangers & Supports <= 4"	TN	3	135.30	406	0.00	0	50.00	150
2.5" - 4" CS Pipe Above Ground	TN	15	291.10	4,367	0.00	0	50.00	750
Hangers & Supports - Large Bore	TN	25	135.30	3,383	0.00	0	50.00	1,250
6" - 8" CS Pipe Above Ground	TN	42	180.40	7,577	0.00	0	50.00	2,100
6" - 8" CS Pipe Above Ground	TN	3	180.40	541	0.00	0	50.00	150
10" - 14" CS Pipe Above Ground	TN	63	135.30	8,524	0.00	0	50.00	3,150
10" - 14" CS Pipe Above Ground	TN	4	135.30	541	0.00	0	50.00	200
6" - 8" CM Pipe Above Ground	TN	6	180.40	1,082	0.00	0	50.00	300
HRSG Feed Pumps	TN	6	135.30	812	0.00	0	50.00	300
Reinforced Concrete - Foundations	CY	20	54.00	1,080	35.00	700	0.00	0
Instrument Tubing & Sensing	TN	4	291.10	1,164	0.00	0	50.00	200
CT 5A	TN	506	102.50	51,865	0.00	0	50.00	25,300
CT 5B	TN	506	102.50	51,865	0.00	0	50.00	25,300
Diffuser Enclosure - HRSG 5A	TN	4	291.10	1,164	0.00	0	50.00	200
Diffuser Enclosure - HRSG 5B	TN	4	291.10	1,164	0.00	0	50.00	200
CT 5A - Interconnect Pipe	TN	8	180.40	1,443	0.00	0	50.00	400
CT 5B - Interconnect Pipe	TN	8	180.40	1,443	0.00	0	50.00	400
16" - 18" CS Pipe Above Ground	TN	3	135.30	406	0.00	0	50.00	150
20" - 30" CS Pipe Above Ground	TN	2	135.30	271	0.00	0	50.00	100
Instrument Main Steam Piping	TN	3	135.30	406	0.00	0	50.00	150
2" & Under CM Pipe Above Ground	TN	11	180.40	1,984	0.00	0	50.00	550
2.5" - 4" CM Pipe Above Ground	TN	2	180.40	361	0.00	0	50.00	100
Hangers & Supports - Large Bore	TN	1	180.40	180	0.00	0	50.00	50
10" - 14" CS Pipe Above Ground	TN	15	135.30	2,030	0.00	0	50.00	750
10" - 14" CM Pipe Above Ground	TN	28	135.30	3,788	0.00	0	50.00	1,400
16" - 18" CM Pipe Above Ground	TN	113	135.30	15,289	0.00	0	50.00	5,650
HRGS Blowdown Tank	TN	7	135.30	947	0.00	0	50.00	350
Reinforced Concrete - Pits, Sumps & Ramps	CY	130	54.00	7,020	35.00	4,550	0.00	0
20" - 30" CS Pipe Above Ground	TN	41	135.30	5,547	0.00	0	50.00	2,050
20" - 30" CM Pipe Above Ground	TN	128	135.30	17,318	0.00	0	50.00	6,400
US Steam Turbine Equipment	TN	15	135.30	2,030	0.00	0	50.00	750
US Steam Turbine Piping	TN	21	135.30	2,841	0.00	0	50.00	1,050
Reinforced Concrete - Foundations	CY	30	54.00	1,620	35.00	1,050	0.00	0
Condenser Vacuum Pump	TN	4	180.40	722	0.00	0	50.00	200
Reinforced Concrete - Foundations	CY	40	54.00	2,160	35.00	1,400	0.00	0
Reinforced Concrete - Stack Foundations	CY	359	54.00	19,386	35.00	12,565	0.00	0
2" & Under Stainless Steel Pipe Above Ground	TN	7	180.40	1,263	0.00	0	300.00	2,100
2.5" - 4" Stainless Steel Pipe Above Ground	TN	4	180.40	722	0.00	0	300.00	1,200
CT 5A - Mechanical/Electrical Packages	TN	55	180.40	9,922	0.00	0	50.00	2,750
CT 5B - Mech/Elect Pkgs	TN	55	180.40	9,922	0.00	0	50.00	2,750
6" - 8" SS Pipe Above Ground	TN	15	135.30	2,030	0.00	0	300.00	4,500
10" - 14" SS Pipe Above Ground	TN	3	135.30	406	0.00	0	300.00	900

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Reinforced Concrete - Inlet Air Duct Founds.	CY	463	54.00	25,002	35.00	16,205	0.00	0
CT 5A - Ductwork	TN	33	180.40	5,953	0.00	0	50.00	1,650
CT 5B - Ductwork	TN	33	180.40	5,953	0.00	0	50.00	1,650
HRSG 5 Stacks	CY	200	54.00	10,800	35.00	7,000	0.00	0
HRSG 5A - Duct	TN	5	180.40	902	0.00	0	50.00	250
HRSG 5A - Stack	TN	264	180.40	47,626	0.00	0	50.00	13,200
HRSG 5B - Duct	TN	5	180.40	902	0.00	0	50.00	250
HRSG 5B - Stack	TN	264	180.40	47,626	0.00	0	50.00	13,200
Reinforced Concrete - Foundations	CY	134	54.00	7,236	35.00	4,690	0.00	0
Cooling Water Heat Exchanger Shell	TN	22	135.30	2,977	0.00	0	50.00	1,100
16" - 18" CS Pipe Above Ground	TN	51	135.30	6,900	0.00	0	50.00	2,550
20" - 30" CS Pipe Above Ground	TN	4	135.30	541	0.00	0	50.00	200
Closed Cooling H2O Pumps	TN	3	135.30	406	0.00	0	50.00	150
Account 343 Totals				858,465		58,065		329,150
Account 344: Generators								
Pedestal Concrete	CY	614	54.00	33,156	35.00	21,490	0.00	0
Exciter	TN	15	135.30	2,030	0.00	0	50.00	750
Turbo-Generator Unit	TN	508	102.50	52,070	0.00	0	50.00	25,400
Turbine Piping	TN	207	135.30	28,007	0.00	0	50.00	10,350
Turbine Insulation	CY	495	41.00	20,295	19.00	9,405	0.00	0
Turbine Copper	TN	46	400.00	18,400	0.00	0	710.00	32,660
Condenser Shell	TN	285	135.30	38,561	0.00	0	50.00	14,250
Condenser Tubes	TN	85.5	400.00	34,200	0.00	0	1,320.00	112,860
Circulating Water Pumps	TN	59	135.30	7,983	0.00	0	50.00	2,950
Condensate Pumps and Ejectors	TN	16	180.40	2,886	0.00	0	50.00	800
Concrete Foundations	CY	5.9	54.00	319	35.00	207	0.00	0
Miscellaneous Steel & Equipment	TN	32.4	291.10	9,432	0.00	0	50.00	1,620
Reinforced Concrete- Pedestal Basemat	CY	1,060	54.00	57,240	35.00	37,100	0.00	0
Reinforced Concrete- Pedestal Columns	CY	335	54.00	18,090	35.00	11,725	0.00	0
Reinforced Concrete- Pedestal Top Deck	CY	1,096	54.00	59,184	35.00	38,360	0.00	0
Account 344 Totals				381,851		118,287		201,640
Account 345: Accessory Electric Equipment								
Equipment Foundations	CY	46.5	54.00	2,511	35.00	1,628	0.00	0
Structures & Supports	CY	20.97	54.00	1,132	35.00	734	0.00	0
Concrete	CY	46.4	54.00	2,506	35.00	1,624	0.00	0
Service Transformer - High & Low Voltage	TN	8	180.40	1,443	0.00	0	50.00	400
Startup Transformer	TN	9	180.40	1,624	0.00	0	50.00	450
Transformer Copper	TN	7	300.00	2,040	0.00	0	710.00	4,828
Storage Batteries & Equipment	TN	45	180.40	8,118	0.00	0	50.00	2,250
Concrete Conduit & Ducts	CY	840	54.00	45,360	35.00	29,400	0.00	0
Cable Trays	TN	4.2	291.10	1,223	0.00	0	50.00	210
Power & Control Wiring	TN	52.5	492.00	25,830	0.00	0	760.00	39,900
Generator Leads	TN	16	492.00	7,872	0.00	0	710.00	11,360
Instrument Transformers	TN	1.8	180.40	325	0.00	0	50.00	90
2400v Switchgear	TN	18	180.40	3,247	0.00	0	50.00	900
480v Switchgear	TN	15	180.40	2,706	0.00	0	50.00	750
Concrete	CY	6	21.60	130	35.00	210	0.00	0
Valve Manual	TN	1	180.40	180	0.00	0	50.00	50
Conduit 2" OR >	TN	2	291.10	582	0.00	0	50.00	100
Conduit < 2"	TN	2	291.10	582	0.00	0	50.00	100
Concrete - Ductbank	CY	10	21.60	216	35.00	350	0.00	0
Wire 4/0 Or > (PWR)	TN	2	180.40	361	0.00	0	50.00	100
Transformer	TN	15	135.30	2,030	0.00	0	50.00	750
Reinforced Concrete - Walls	CY	24	54.00	1,296	35.00	840	0.00	0
Reinforced Concrete - Foundations	CY	70	54.00	3,780	35.00	2,450	0.00	0
Reinforced Concrete - Piers, Pads, Curbs, etc.	CY	13	54.00	702	35.00	455	0.00	0
Isophase Bus & AS - Excitation Transformer	TN	8	180.40	1,443	0.00	0	50.00	400
DC&AC Equipment - Charger/Panel	TN	2	291.10	582	0.00	0	50.00	100
Reinforced Concrete - Foundations	CY	60	54.00	3,240	35.00	2,100	0.00	0
Reinforced Concrete - Piers, Pads, Curbs, etc.	CY	24	54.00	1,296	35.00	840	0.00	0
Reinforced Concrete - Walls	CY	26	54.00	1,404	35.00	910	0.00	0
Isophase Bus & AS - Auxiliary Power Transf.	TN	10	180.40	1,804	0.00	0	50.00	500

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Reinforced Concrete - Foundations	CY	62	54.00	3,348	35.00	2,170	0.00	0
Reinforced Concrete - Walls	CY	20	54.00	1,080	35.00	700	0.00	0
Reinforced Concrete - Piers, Pads, Curbs, etc.	CY	6	21.60	130	35.00	210	0.00	0
Isophase Bus & AS - Start-up Transformer	TN	8	180.40	1,443	0.00	0	50.00	400
DC&AC Equipment - Charger/Panel	TN	2	180.40	361	0.00	0	50.00	100
DC&AC Equipment - Charger/Panel	TN	1	180.40	180	0.00	0	50.00	50
DC&AC Equipment - Charger/Panel	TN	1	180.40	180	0.00	0	50.00	50
Ground Cable	TN	4	492.00	1,968	0.00	0	760.00	3,040
Conduit 2.5"Ø > RGS Above Ground	TN	57	291.10	16,593	0.00	0	50.00	2,850
Conduit 2" Or < RGS Above Ground	TN	141	291.10	41,045	0.00	0	50.00	7,050
Unscheduled Conduit	TN	12	291.10	3,493	0.00	0	50.00	600
Cable Tray	TN	156	291.10	45,412	0.00	0	50.00	7,800
Isophase Bus & As - Pt & Surge Cubicle	TN	2	180.40	361	0.00	0	50.00	100
Isophase Bus & As - Gener. Bus Grnd. Xlrmr	TN	5	180.40	902	0.00	0	50.00	250
Reinforced Concrete - Foundations	CY	48	54.00	2,592	35.00	1,680	0.00	0
Reinforced Concrete - Piers, Pads, Curbs, etc.	CY	15	54.00	810	35.00	525	0.00	0
Relay Racks W/Wire, Tube	TN	3	180.40	541	0.00	0	50.00	150
4KV & Greater Cable (PWR)	TN	59	492.00	29,028	0.00	0	760.00	44,840
Electrical Instrument	TN	2	291.10	582	0.00	0	50.00	100
Instrument Cable	TN	11	492.00	5,412	0.00	0	760.00	8,360
Unscheduled Cable	TN	4	492.00	1,968	0.00	0	760.00	3,040
Load Center, Bus - Switchgear	TN	25	180.40	4,510	0.00	0	50.00	1,250
MCC & Low Volt - MCC Switchgear Section	TN	8	180.40	1,443	0.00	0	50.00	400
#6 & Greater Cable (PWR)	TN	19	492.00	9,348	0.00	0	760.00	14,440
#8 & Smaller Cable (PWR)	TN	4	492.00	1,968	0.00	0	760.00	3,040
Control Cable	TN	23	492.00	11,316	0.00	0	760.00	17,480
Reinforced Concrete - Foundations	CY	114	54.00	6,156	35.00	3,990	0.00	0
Account 345 Totals				317,735		50,815		178,628
Account 346: Miscellaneous Power Plant Equipment								
2" & < CS Pipe Above Ground	TN	34	180.40	6,134	0.00	0	50.00	1,700
Reinforced Concrete - Foundations	CY	145	54.00	7,830	35.00	5,075	0.00	0
Instrument Air Compressor	TN	5	180.40	902	0.00	0	50.00	250
Instrument Air Dryer	TN	1	180.40	180	0.00	0	50.00	50
Account 346 Totals				15,046		5,075		2,000
Account 353: Substation Equipment								
Steel Structures & Supports	TN	12.5	135.30	1,691	0.00	0	50.00	625
Concrete Structures	CY	92.75	21.60	2,003	35.00	3,246	0.00	0
Manholes and Handholes	CY	7.4	21.60	160	35.00	259	0.00	0
Main Transformers - Foundation	CY	150	54.00	8,100	35.00	5,250	0.00	0
Transformer Copper	TN	61	300.00	18,444	0.00	0	710.00	43,651
Oil Breakers - Foundation	CY	18.75	54.00	1,013	35.00	656	0.00	0
Main Power Transformer	TN	125.5	180.40	22,640	0.00	0	50.00	6,275
Conduit & Duct	TN	1.6	291.10	466	0.00	0	50.00	80
Concrete	CY	128.5	21.60	2,776	35.00	4,498	0.00	0
Insulators	TN	25.8	291.10	7,510	0.00	0	50.00	1,290
Bus & Copper Tubing	TN	0.225	300.00	68	0.00	0	710.00	160
Oil Circuit Breakers	TN	351.875	291.10	102,431	0.00	0	50.00	17,594
Air Brake & Disconnect Switches	TN	105.42	180.40	19,018	0.00	0	50.00	5,271
Lightning & Surge Protection	TN	16	180.40	2,886	0.00	0	50.00	800
Instrument Transformers	TN	28.2	180.40	5,087	0.00	0	50.00	1,410
Account 353 Totals				194,293		13,909		77,155
Total Unit 5				2,075,318		355,901		824,003
Total Lauderdale Common, Units 4 & 5				7,646,943		2,764,374		2,227,866
Lauderdale Gas Turbines								
Account 341: Structures & Improvements								
Concrete and Foundations	CY	150	21.60	3,240	35.00	5,250	0.00	0

Fort Lauderdale

Removal, Disposal & Salvage Cost Worksheet	U/M Unit of Measure	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost Per Item	Disposal Cost per Unit of Measure	Disposal Cost Per Item	Salvage Value per Unit of Measure	Realizable Salvage Value per Item
Account 342: Fuel Holders, Producers, & Accessories								
Fuel Oil Storage Tank	TN	0	180.40	0	0.00	0	50.00	0
Account 343: Prime Movers								
Gas Expander With Sole Plates	TN	893	180.40	161,097	0.00	0	50.00	44,650
Gas Generator Engines With Bases	TN	144	180.40	25,978	0.00	0	50.00	7,200
Turn Gear & Outer Exhaust Case	TN	103	180.40	18,581	0.00	0	50.00	5,150
Upper Half - Outer Exhaust Case	TN	30	180.40	5,412	0.00	0	50.00	1,500
Upper Half - Inner Exhaust Case	TN	264	180.40	47,626	0.00	0	50.00	13,200
Other Items	TN	450	180.40	81,180	0.00	0	50.00	22,500
Account 343 Totals				339,874		0		94,200
Account 344: Generators								
Generator	TN	29	102.50	2,973	0.00	0	50.00	1,450
Rotor and 2 Coupling Hubs	TN	3.2	102.50	328	0.00	0	50.00	160
Account 344 Totals				3,301		0		1,610
Account 345: Accessory Electric Equipment								
Transformers	TN	13	180.40	2,255	0.00	0	50.00	625
Transformer Copper	TN	5	300.00	1,500	0.00	0	710.00	3,550
				3,755		0		4,175
Total Lauderdale Gas Turbines				348,669		5,250		96,435
Total Common, Units 4 & 5 and GTs				7,995,612		2,769,624		2,324,301

FORT MYERS PLANT

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Fort Myers Plant

The Fort Myers Plant is located on a 460 acre site on the Caloosahatchee River, approximately two miles east of Tice, Florida in Lee County. At this site there are two oil fired units, Units No. 1 and 2, and twelve gas turbine unites.

The original Ebasco Services design for Unit No. 1, and Bechtel Corporation design for Unit No.2 were for oil-fired operation, with Unit 1 having provisions for future conversion to natural gas or coal operation. Both units currently operate on #6 heavy oil or coal operation. Both units currently operate on #6 heavy oil with no alternate fuel type. The two units have a combined nameplate rating of 558 megawatts. Units No. 1 and 2 went into commercial operation in 1958 and 1969 respectively.

Each of the twelve gas turbine units consists of an essentially complete General Electric MS-7000 can combustor type gas turbine engine, fixed-coupled to an electric generator. The twelve units have a combined nameplate rating of 744 megawatts. The gas turbine units went into commercial operation in 1974.

The Fort Myers site is supplied with fuel oil from Florida Power & Light Company's Boca Grande Fuel Oil Terminal. The fuel terminal is located on the Gulf of Mexico at the mouth of the Caloosahatchee River. This is approximately 75 miles from the Fort Myers Power Plant site.

Florida Power & Light Company last requested and received approval for dismantlement accruals for the Fort Myers plant in docket No. 941343-EI, Order No. PSC-95-1532-FOF-EI, issued on December 12, 1995. The current accruals became effective as of January 1, 1995.

FT. MYERS
SUMMARY OF DISMANTLEMENT COSTS

FERC Account	Description	Removal Cost (A)	Disposal Cost (B)	Salvage Value (C)	Total (D)=(A + B - C)
<u>Ft. Myers Common</u>					
<u>Production Plant</u>					
311	Structures and Improvements	299,265	792,642	23,125	1,068,782
312	Boiler Plant Equipment	105,270	620,461	97,396	628,335
314	Turbogenerator Units	0	0	0	0
315	Accessory Electrical Equipment	1,398	0	259	1,139
316	Miscellaneous Equipment	0	0	0	0
	Subtotal	405,932	1,413,103	120,780	1,698,255
<u>Other Site Costs:</u>					
	Site Mangement Expenses	572,832			572,832
	Intake & Discharge Backfill	100,516			100,516
	Grading & Seeding	2,377,534			2,377,534
	Subtotal	3,050,882	0	0	3,050,882
	Total	3,456,814	1,413,103	120,780	4,749,137
	Contingency - 16%	553,090	226,096		779,187
	Total Ft. Myers Common excluding Unusable M&S	\$4,009,904	\$1,639,199	\$120,780	\$5,528,324
	Unusable M&S Inventory	684,776	0	102,716	582,060
	Total Ft. Myers Common including Unusable M&S	4,694,680	1,639,199	223,496	6,110,384
<u>Ft. Myers Unit 1</u>					
311	Structures and Improvements	273,274	304,243	48,285	529,232
312	Boiler Plant Equipment	3,053,627	583,548	168,163	3,469,013
314	Turbogenerator Units	520,676	111,914	113,080	519,510
315	Accessory Electrical Equipment	138,038	55,981	158,390	35,628
316	Miscellaneous Equipment	1,892	979	400	2,471
353	Substation Equipment	66,754	22,918	67,191	22,480
	Subtotal	4,054,261	1,079,582	555,509	4,578,334
	Contingency - 16%	648,682	172,733		821,415
	Total Ft. Myers Unit 1	\$4,702,942	\$1,252,315	\$555,509	\$5,399,749
<u>Ft. Myers Unit 2</u>					
311	Structures and Improvements	524,473	787,234	70,286	1,241,422
312	Boiler Plant Equipment	5,031,568	451,318	429,105	5,053,781
314	Turbogenerator Units	1,330,169	244,823	186,454	1,388,538
315	Accessory Electrical Equipment	224,943	97,627	232,302	90,268
316	Miscellaneous Equipment	3,381	1,246	800	3,827
353	Substation Equipment	132,188	23,318	121,133	34,373
	Subtotal	7,246,722	1,605,566	1,040,079	7,812,208
	Contingency - 16%	1,159,475	256,890		1,416,366
	Total Ft. Myers Unit 2	\$8,406,197	\$1,862,456	\$1,040,079	\$9,228,574
<u>Ft. Myers Gas Turbines</u>					
341	Structures and Improvements	27,273	19,896	4,220	42,949
342	Fuel Holders, Producers and Accessories	88,102	527,870	61,694	554,278
343	Prime Movers	1,075,335	209,741	254,130	1,030,946
344	Generators	354,010	0	113,440	240,570
345	Accessory Electric Equipment	56,954	0	26,219	30,736
	Subtotal	1,601,675	757,507	459,703	1,899,480
	Contingency - 16%	256,268	121,201		377,469
	Total Ft. Myers Gas Turbines	\$1,857,944	\$878,708	\$459,703	\$2,276,949
	Total Dismantlement Costs	\$19,661,764	\$5,632,679	\$2,278,787	\$23,015,656

**FT. MYERS
DISMANTLEMENT COST FOR INFLATION PROJECTION**

Description	Labor (A)	Material & Equipment (B)	Burial (C)	Salvage (D)	Total (A) + (B) + (C) - (D)
Ft. Myers Common	2,405,943	2,288,738	\$1,639,199	\$223,496	\$6,110,384
Ft. Myers Unit 1	2,821,765	1,881,177	1,252,315	555,509	5,399,749
Ft. Myers Unit 2	5,043,718	3,362,479	1,862,456	1,040,079	9,228,574
Ft. Myers Gas Turbines	1,114,766	743,177	878,708	459,703	2,276,949
Total	\$11,386,193	\$8,275,571	\$5,632,679	\$2,278,787	\$23,015,656

Labor is 60% of Removal Cost from Summary of Dismantlement Costs.
 Material & Equipment is 40% of Removal Cost from Summary of Dismantlement Costs.
 Burial is 100% of Disposal Cost from Summary of Dismantlement Costs.
 Salvage is 100% of Salvage from Summary of Dismantlement Costs.

FT. MYERS DISMANTLEMENT ASSUMPTIONS

FPL will provide management personnel for the dismantlement effort.

FPL will prepare the request for proposal package and solicit bids for the decommissioning effort.

FPL will provide site security during the dismantlement.

FPL will hire a demolition contractor to perform the actual dismantling work. This contractor will have the salvage rights to all plant equipment and structural material.

The land will be made available for future use.

All dismantling work will be done in accordance with OSHA regulations.

The fuel oil storage tanks will be cleaned and their contents disposed of according to the requirements of current regulations.

The following items will be removed:

- a. All structures, equipment, and concrete pads, pedestals, foundations, etc.;
- b. All underground gas, oil, sewer and water piping and electrical conduits (underground concrete piping to be collapsed);
- c. All hazardous and contaminated materials, e.g., acid filled lead batteries, oil tank residue.

Discussions with FPL's Power Generation Services Department (PGS) indicate that the return of the site to a green field condition entails removal of all structures above the wood pilings and steel-encased concrete pilings. The removal of the pilings would be unfeasible and, therefore, will remain in place.

The turbine pedestals and chimney will be control-blasted.

Scrap will be unprepared, i.e., cut only to the extent required to load the pieces on scrap dealers' trailers. Trucking costs for removal are paid by the scrap dealer and are reflected in the salvage value paid.

The estimate does not reflect land value or its resale.

The productivity factors employed are assumed valid for purposes of this study.

A contingency of 16% has been applied to the total removal and disposal costs. This contingency percentage covers costs associated with delays occurring after dismantlement begins due to such causes as equipment failure and weather delays.

The costs of such overhead items as project management, site security, etc., have been estimated by FPL's PGS Department. These costs are listed on the cost summary pages for each site's dismantlement study.

All materials and equipment are assumed to be either fully salvageable or to be disposed of completely. The availability of powerful cutting shears makes possible the cutting of even the heaviest steel to a size that permits salvage as scrap. Any unusable materials and supplies inventory will be sold as scrap. Estimated balances of such inventory (with an assumption of a 15% salvage value) have been included on the cost summary pages for each site's dismantlement study.

A 30% swell factor is used to compute the disposal cost per cubic yard of concrete. One cubic yard of concrete becomes 1.3 cubic yards of concrete rubble after demolition.

The switchyard and ancillary equipment (FERC account 353) will remain in place with the exception of the main power transformers, oil circuit breakers, superstructures, and foundations associated with the tie-in of plant generated power in the switchyard.

The turbine pedestals and chimneys will be control-blasted.

Transformer and circuit breaker insulating oils are assumed not to contain PCB's. Therefore, the transformers and oil circuit breakers will be salvageable.

It is assumed that dismantlement activity at Ft. Myers will begin five years after end of service. The end of service dates used for this assumption conform to the economic recovery period ending dates used in the Ft. Myers depreciation study filed as of year end 1997.

Though some asbestos abatement activity has occurred at Ft. Myers, significant amounts of asbestos remain and can be expected to require abatement at final dismantlement. FPL's PGS Department has estimated the cost of asbestos removal at \$1,250 per cubic yard and disposal at \$100 per cubic yard. This estimate is based on recent FPL experience.

DISMANTLING ACTIVITIES: OIL & GAS & OTHER PRODUCTION PLANTS

- Remove loose equipment, furniture, and spare parts.
- Drain liquids, drum-up, and dispose of drums.
- Remove hazardous materials; i.e., leads (alkaline), acids, solvents, lubricants, oils, chemicals, and gasses.
- Strip all insulation and covering, package and remove to acceptable landfill.
- Collapse circulating water lines and backfill trenches.
- Remove main steam, hot and cold piping, downcomers, valves, and supports, pumps, motors, generator auxiliary equipment, feedwater heaters, soot blowers, and condensers.
- Remove intake and discharge structures, equipment pumps, piping and valves.
- Remove systems that must be completed prior to the start of the boiler removal including lube oil pumps, all piping, instrument and electrical systems.
- Remove forced drafts and induced draft ductwork, air heaters and fans.
- Remove hoppers, burners, upper and lower headers, manways, and waterwalls.
- Remove heavy steel structures and above ground steel – precut key members, lower and cut at ground level.
- Disassemble crane, boiler feed pumps, and turbine generator.
- Separate scrap metals, and remove to scrap yard.
- Remove and dispose of miscellaneous rubble.
- Remove turbine pedestal, foundation, and heavy concrete structures and building, stack foundations, equipment foundations, substructures, support buildings and stacks. Remove to landfill.
- Cut off piles and remove pile caps. Remove concrete encased duct banks and underground piping.
- Remove septic tank and backfill.
- Remove underground storage tanks.
- Test and remove contaminated soil/bases – all areas.
- Install environmental monitoring equipment such as wells.
- Remove or improve remaining site facilities such as buildings, fences, parking areas in accordance with local code and regulations.
- Install/modify existing site storm water runoff system.

DISMANTLING ACTIVITIES: OIL & GAS AND OTHER PRODUCTION PLANTS

(Continued)

- Remove switchyard electrical equipment, structures, and foundations. Modify services to remaining occupied structures as required.
- Remove gas supply metering site, valve stations, underground distribution system.
- Backfill, site grading, seeding, mulching.
- Remove solid and liquid wastes from waste treatment processing areas – landfilled material, precipitated material in ponds and tanks, contaminated resins and reactants.
- Remove marine facilities such as fuel unloading docks, equipment, bridges, and dams.
- Cut and remove fuel oil tanks, piping, valves, and supports.
- Remove top soil/gravel, backfill, and remove barrier wall foundation.

DEVELOPMENT OF COST FACTORS

Cost factors have been developed to compute the net salvage value of the demolition of the Ft. Myers Plant. The net salvage value of the demolition is the net of: the removal and disposal cost and the salvage value of equipment and steel not disposed of. These factors provide a unit cost or value for removal, disposal and salvage of a given unit of measure of the component materials of which a power plant is constructed. The assumption is that the cost or value per unit of a given component can be multiplied by the quantity of that component in the plant to calculate a total cost or value for removal, disposal, or salvage of that component.

REMOVAL COST FACTORS

The removal cost factors developed for this study have two elements: a burdened labor rate and productivity factor. The burdened labor rate multiplied by the productivity factor yields the removal cost factor. The labor rates used in this study were developed by FPL's Power Generation Services Department (PGS). The crew rate per man-hour is for a crew consisting of six journey men laborers, one laborer foreman and one heavy equipment operator - a typical crew for demolition work. The rate includes the cost per man-hour of a Trojan 3500Z front end loader with a four yard bucket, and an American 9310, two hundred twenty-five ton crane with a two hundred foot boom. The productivity factor employed, e.g. the number of man-hours required to remove a given unit of measure of concrete, were originally developed by an engineering consulting firm. These factors have been reviewed and, where appropriate, have been modified by FPL's PGS Department.

Labor Rate

Labor rates are based on Means Union wages for 1998. The rates are adjusted to reflect non-union crews and factored to the geographical location of the site. Wage rates are based on a 40 hour work week.

Labor	\$21.12	X	6	=	\$126.72
Foreman	\$27.14	X	1	=	\$27.14
Heavy Equipment Operator	\$25.29	X	1	=	\$25.29
Total Cost per hour of 8 man crew					<u>\$179.15</u>
Cost per man hour			\$179.15 / 8	=	<u>\$22.39</u>

Equipment Rate

The equipment rate is based on the following equipment:

Excavator					14,925.30
Front End Loader					5,095.73
Cutting Equipment					200.00
Total per month					<u>\$20,221.03</u>
	20,221.03	/	176	hours per month =	114.89
Cost per man hour			\$114.89 / 8	=	\$14.36
Plus: amount for small tools					0.80
Total Cost per man hour					<u>\$15.16</u>

FT. MYERS DISMANTLEMENT STUDY

Equipment & Labor Summary

Labor	\$22.39
Equipment	15.16
Total	<u>\$37.56</u>
Rounded	<u>\$38.00</u>
For Concrete demolition add \$4.00 per hour additional equipment charge.	<u>\$42.00</u>

The Removal Cost Factor is the product of the productivity factor for removal of a particular component multiplied by the total burdened hourly labor rate. The removal cost factors for all materials to be removed from FPL's sites are as follows:

<u>Components</u>	<u>Hourly Rate</u>	<u>Productivity Factor</u>	<u>Removal Factor</u>
Extra Heavy Steel (1)	\$38.00	2.50 MH / Ton	\$95.00 / Ton
Heavy Steel (2)	\$38.00	3.30 MH / Ton	\$125.40 / Ton
General Steel	\$38.00	4.40 MH / Ton	\$167.20 / Ton
Light Steel	\$38.00	7.10 MH / Ton	\$269.80 / Ton
Concrete (also used for fiberglass pip	\$42.00	0.48 MH / CY	\$20.16 / CY
Reinforced Concrete	\$42.00	1.20 MH / CY	\$50.40 / CY
Copper-Elect. Cable & Generator Leads & Copper - Generator	\$38.00	12.00 MH / Ton	\$456.00 / Ton
Copper - Transformer			\$400.00 / Ton
			\$300.00 / Ton
General Insulation	\$38.00	1.00 MH / CY	\$38.00 / CY
Inground Pipe-Metal(3)	\$38.00	6.00 MH / Ton	\$228.00 / Ton
Concrete Pipe (collapsed)	\$42.00	4.60 MH / Ton	\$193.20 / Ton
Asbestos Insulation			\$1,250.00 / CY

(1) Includes turbine generator.

(2) Includes parts of the steam generator, pipe larger than 8 inches.

(3) Includes cost to backfill the trenches.

DISPOSAL COST FACTORS

Three cost factors were developed to compute the cost of disposal of non-hazardous wastes at the Gulf Disposal Landfill. Concrete and calcium silicated insulation are non-hazardous wastes. The tipping fee of \$36/ton was obtained from the Landfill. The dumpster charge of \$151 per haul, was provided by Waste Management Services, Inc.

Cost factors were also developed to compute the cost of removal and disposal of oil tanks, including the cost of related soil remediation. Such costs are computed for each tank in FPL's system, and are located appropriately in the detailed spreadsheet.

FT. MYERS DISMANTLEMENT STUDY

Concrete

One cubic yard of concrete in place weighs 3,950 pounds. One cubic yard becomes 1.3 cubic yards after demolition. Each load will contain 15.38 cubic yards (20 cu. yds./1.3) of in place concrete. 15.38 cubic yards weighs 61,000 pounds or 30.50 tons.

Truck Cost (incl. driver)	\$151.00 / haul	X	1 haul	=	\$151.00
Tipping Fees	\$36.00 / ton	X	30.5 tons	=	1,098.00
Total Cost per round Trip					<u>1,249.00</u>

Cost per Cubic Yard	\$1,249.00 / 15.38 cubic yards =	\$81.21
Plus 10% contractor profit		8.12
Total Cost per Cubic Yard		<u>\$89.33</u>

Rounded Cost per Cubic Yard	<u>\$89.00</u>
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Insulation - Calcium Silicate (Non-Hazardous)

A trailer with a 30 cubic yard capacity is used for insulation because of its lighter weight. For purposes of this computation the dumpster is assumed to be 90% full (although the tipping fee is based on the assumption of 100% full truck - i.e., the weight to volume conversion uses 30 cubic yards - the full volume of the dumpster). A cubic yard of calcium silicate insulation weighs 121.5 pounds or .060750 tons. 30 cubic yards times .060750 tons/cubic yard = 1.82 tons.

Truck Cost (incl. driver)	\$199.00 / haul	X	1 haul	=	\$199.00
Tipping Fees	\$36.00 / ton	X	1.82 tons	=	65.52
Total Cost per round Trip					<u>264.52</u>

Cost per Cubic Yard	\$264.52 / 27 cubic yards =	\$9.80
Plus 10% contractor profit		0.98
Total Cost per Cubic Yard		<u>\$10.78</u>

Rounded Cost per Cubic Yard	<u>\$11.00</u>
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Insulation - Asbestos

	<u>100.00</u>
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SALVAGE VALUE FACTORS

The salvage value factors , presented in dollars per ton, were provided by FPL's Investment Recovery Department. The list covers all salvageable materials recovered from FPL sites.

Iron & Steel	\$50 / ton
Stainless Steel	\$300 / ton
Aluminum (Sheet Metal)	\$540 / ton
Wire & Cable:	
- Insulated Copper	\$760 / ton
- Insulated Aluminum	\$600 / ton
Copper	\$710 / ton
Nickel Alloys	
- 70/30 Cupro-Nickel	\$1,490 / ton
- 80/20 Cupro-Nickel	\$1,250 / ton
Admiralty Brass	\$540 / ton
Aluminum Brass	\$140 / ton
Titanium	\$1,320 / ton

OTHER SITE COSTS

Site Management Expenses

Site management expenses refer to FPL's management costs and contractors' expenses associated with the dismantlement project. The cost factors provided by FPL's Power Generation Services Department (PGS) are: FPL expenses of \$13,901 per month, both office and site, and contractor's expenses of \$17,923 per month. These expenses are assumed to be incurred over the 18 month dismantlement period assumed for the Ft. Myers Plant. FPL's management costs include administration, engineering, permit costs and various other costs. Contractors' expenses include field management supervision, security and other costs.

Site Management Expenses per month	\$31,824
Number of months	18
Total Site Management Expenses	<u>\$572,832</u>

Intake & Discharge Backfill

FPL's PGS Department developed this cost factor on the basis of an average sized structure for FPL's production plants. It is assumed that a volume of 1,600 cubic yards for the intake and 1,120 cubic yards for the discharge will need to be filled. The cost for the intake is \$28,021 and the cost for the discharge is \$22,237 making a total cost of \$50,258. There are two intake and discharge structures at Ft. Myers for a total cost of: \$100,516 , as follows:

	<u>Cost /Unit</u>	<u>Quantity</u>	<u>Total</u>
Intake	\$28,021	2	\$56,042
Discharge	\$22,237	2	\$44,474
Ft. Myers Total			<u>\$100,516</u>

FT. MYERS DISMANTLEMENT STUDY

Grading and Seeding

This cost refers to the restoration of the dismantled area to a green field area. The land is filled with sand, spread with topsoil and then seeded. The cost factor provided by PGS is \$40,229 per acre. The acreage was determined for each site by reviewing engineering drawings to determine the areas requiring this effort. Assumptions underlying this cost factor include 2,000 cubic yards per acre to be backfilled and 968 cubic yards per acre of topsoil to be spread and seeded.

Ft. Myers Acreage to be graded and seeded	59.10
Cost Factor	<u>\$40,229</u>
Total Grading and Seeding Expense	<u><u>\$2,377,534</u></u>

FT. MYERS

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Compo- nents	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
FT. MYERS COMMON										
FERC Account 311										
Improvements to Site										
Access Roads and Parking Areas	CY	1	7,187	7,187	20.16	144,880	89.00	639,599	0.00	0
Concrete Walkways	CY	1	252	252	20.16	5,080	89.00	22,428	0.00	0
Station Sign - Concrete	CY	1	11	11	20.16	222	89.00	979	0.00	0
Station Sign - Concrete Foundation	CY	1	7	7	50.40	358	89.00	633	0.00	0
Yard Lighting	TN	1	3	3	269.80	809	0.00	0	50.00	150
Subtotal						151,350		663,638		150
Domestic Water Distribution System and Water Treatment										
Service Water Booster Pump	TN	1	2	2	269.80	405	0.00	0	50.00	75
Yard Fire Protection - System Complete	TN	1	49	49	228.00	11,172	0.00	0	50.00	2,450
Lawn Sprinkler System - Incl. Pumps w/ Motors, Complt.	TN	1	2	2	269.80	405	0.00	0	50.00	75
Intake Chlorination System - Piping	TN	1	1	1	167.20	194	0.00	0	50.00	58
Intake Chlorination System - Chlorinators	TN	1	2	2	167.20	334	0.00	0	50.00	100
Sulfuric Acid Storage tank	TN	1	5	5	167.20	836	0.00	0	50.00	250
Caustic Acid Storage Tank	TN	1	5	5	167.20	836	0.00	0	50.00	250
C-anion Mixing Tanks	TN	3	5	15	167.20	2,508	0.00	0	50.00	750
Cation Mixing Tanks	TN	2	5	10	167.20	1,672	0.00	0	50.00	500
Acid Mixing Pumps and Piping system	TN	1	10	10	269.80	2,698	0.00	0	50.00	500
Fire Protection - Raw Water Fire Pump	TN	1	2	2	269.80	405	0.00	0	50.00	75
Fire Protection - F/Pump concrete slab	CY	1	5	5	50.40	252	89.00	445	0.00	0
Subtotal						21,716		445		5,083
Fuel Oil System/Area										
Unloading Dock - Reinforced Concrete	CY	1	156	156	50.40	7,862	89.00	13,884	0.00	0
Unloading Dock - Support Steel	TN	1	2	2	167.20	251	0.00	0	50.00	75
Fuel Oil Piping - Heavy Oil	TN	1	103	103	167.20	17,188	0.00	0	50.00	5,140
Heavy Oil Strainers/filters	TN	4	4	16	167.20	2,675	0.00	0	50.00	800
Fuel Oil Unloading Pumps and motors	TN	2	4	7	167.20	1,170	0.00	0	50.00	350
Subtotal						29,147		13,884		6,365
Fuel Oil Terminal - Boca Grande Unloading Facility										
Unloading Dock - Reinforced Concrete	CY	1	156	156	50.40	7,862	89.00	13,884	0.00	0
Unloading Dock - Support Steel	TN	1	4	4	167.20	669	0.00	0	50.00	200
Fuel Oil Piping, Pumps, and motors	TN	1	174	174	167.20	29,074	0.00	0	50.00	8,695
Subtotal						37,606		13,884		8,895
Station Structures										
Service Building - Substructure - Reinforced Concrete	CY	1	200	200	50.40	10,080	89.00	17,800	0.00	0
Service Building - Concrete Block Walls 8,000 Blocks	CY	1	131	131	20.16	2,644	89.00	11,672	0.00	0
Service Building - Superstructure - Concrete	CY	1	308	308	50.40	15,498	89.00	27,368	0.00	0
Service Building - Superstructure - Steel Roof	TN	1	15	15	269.80	3,953	0.00	0	50.00	733
Paint & Lube Oil Storage Building - R/Concrete Fndatn	CY	1	55	55	50.40	2,772	89.00	4,895	0.00	0
Paint & Lube Oil Storage Bldng - (1650 conc blocks)	CY	1	27	27	20.16	545	89.00	2,407	0.00	0
Station Warehouse - Reinforced Concrete Foundation	CY	1	62	62	50.40	3,114	89.00	5,498	0.00	0
Station Warehouse - Steel Bldg - 32' x 84' Butler Bldg	TN	1	20	20	269.80	5,261	0.00	0	50.00	975
Lime Storage Building - Reinforced Concrete Foundation	CY	1	53	53	50.40	2,646	89.00	4,673	0.00	0
Lime Storage Building - Concrete Block Walls	CY	1	53	53	20.16	1,068	89.00	4,717	0.00	0
Chlorination Building - Reinforced Concrete Foundation	CY	1	27	27	50.40	1,361	89.00	2,403	0.00	0
Chlorination Building - Concrete Block Walls	CY	1	29	29	20.16	585	89.00	2,581	0.00	0
Spare Parts Warehouse - Structural Steel	TN	1	15	15	167.20	2,424	0.00	0	50.00	725
Spare Parts Warehouse - Foundation - Concrete	CY	1	29	29	50.40	1,462	89.00	2,581	0.00	0

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Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Lime Storage Building - Concrete Roof	CY	1	49	49	20.16	988	89.00	4,361	0.00	0
Lab Building - Concrete Block Walls	CY	1	53	53	20.16	1,068	89.00	4,717	0.00	0
Lab Building - Concrete Foundation	CY	1	53	53	50.40	2,646	89.00	4,673	0.00	0
Subtotal						58,115		100,346		2,433
Fort Myers Boathouse Facility										
Structure - Steel	TN	1	4	4	269.80	1,079	0.00	0	50.00	200
Foundation and Seawall - concrete	CY	1	5	5	50.40	252	89.00	445	0.00	0
Subtotal						1,331		445		200
Total Account 311						299,265		792,642		23,125
FERC Account 312										
Boiler Plant Equipment										
Fort Myers Plant Site - Light Oil Tank										
Fuel - Light Oil Storage Tank(142 BBLS)	TN	1	8	8	n/a	5,000	0.00	0	50.00	396
Fuel - Light Oil Storage Tank(142 BBLS) - Cleaning					n/a	0	n/a	4,480	0.00	0
Fuel - Light Oil Tank Foundation	CY	1	4	4	n/a	0	n/a	5,513	0.00	0
Soil Remediation					n/a	0	n/a	2,262	0.00	0
Fuel - Light Oil Burner Pumps	TN	1	1	1	269.80	270	0.00	0	50.00	50
Subtotal						5,270		12,255		446
Fuel Oil Terminal - Boca Grande Terminal										
Fuel Oil Tank No. 1 (179,000 BBLS)	TN	1	537	537	n/a	25,000	0.00	0	50.00	26,850
Fuel Oil Tank No. 2 (178,000 BBLS)	TN	1	534	534	n/a	25,000	0.00	0	50.00	26,700
Fuel Oil Tank No. 3 (139,000 BBLS)	TN	1	434	434	n/a	25,000	0.00	0	50.00	21,700
Fuel Oil Tank No. 4 (139,000 BBLS)	TN	1	434	434	n/a	25,000	0.00	0	50.00	21,700
Soil Remediation	EA	1	n/a	0	n/a	0	n/a	193,984	n/a	0
Tank Cleaning - all tanks(635,000 BBLS)	TN	1	635,000	635,000	n/a	0	n/a	414,222	0.00	0
Subtotal						100,000		608,206		96,950
Total Account 312						105,270		620,461		97,396
FERC Account 315										
Accessory Electrical Equipment										
Lighting Transformers	TN	1	5	5	269.80	1,398	0.00	0	50.00	259
Total Account 315						1,398		0		259
TOTAL FT. MYERS COMMON						405,932		1,413,103		120,780
FT. MYERS UNIT 1										
FERC Account 311										
Site Sewer System										
Storm Sewers and Drains - Reinforced Concrete	CY	1	36	36	50.40	1,814	89.00	3,204	0.00	0
Storm Sewers and Drains - Piping										
48" R/Concrete Pipe	CY	1	8	8	50.40	428	89.00	756	0.00	0
18" R/Concrete Pipe	CY	1	13	13	50.40	633	89.00	1,118	0.00	0
15" R/Concrete Pipe	CY	1	28	28	50.40	1,435	89.00	2,534	0.00	0
12" R/Concrete Pipe	CY	1	4	4	20.16	90	89.00	398	0.00	0
Sanitary Sewer - Septic Tank Concrete	CY	1	23	23	20.16	464	89.00	2,047	0.00	0
Sanitary Sewer & Floor Drains - System complete	TN	1	31	31	269.80	8,364	0.00	0	50.00	1,550
Subtotal						13,228		10,056		1,550

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Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Fuel Oil System/Area										
Fuel Oil Storage Tank Cleaning- 100,000 BBLS, total	BBLS	1	100,000	100,000	n/a	0	n/a	77,777	0.00	0
Fuel Oil Storage Tanks - 100,000 BBLS total	TN	1	334	334	n/a	25,000	0.00	0	50.00	16,700
Soil Remediation	EA	1	n/a	0	n/a	0	n/a	38,780	n/a	0
Fuel Oil Suction Heaters	TN	2	11	22	167.20	3,595	0.00	0	50.00	1,075
Fuel Oil - Pump Transf Pit & Trenches - R/I Concrete	CY	1	60	60	50.40	2,999	89.00	5,296	0.00	0
Fuel Oil - Transfer Pit Sump Pumps	TN	2	5	10	167.20	1,639	0.00	0	50.00	490
Fuel Oil Pipe - Reinforced Concrete Supports	CY	1	18	18	50.40	907	89.00	1,602	0.00	0
Subtotal						34,139		123,455		18,265
Service Water and Raw Water Systems										
Water Treatment - Concrete	CY	1	169	169	50.40	8,518	89.00	15,041	0.00	0
Water Treatment - Cast Iron Piping	TN	1	15	15	228.00	3,495	0.00	0	50.00	767
Raw Water Pump and motor	TN	1	5	5	269.80	1,349	0.00	0	50.00	250
Raw Water Storage Tank - 50,000 Gallons	TN	1	17	17	167.20	2,924	0.00	0	50.00	875
Raw Water Storage Tank - Foundation	CY	1	55	55	50.40	2,772	89.00	4,895	0.00	0
Elevated Water Storage Tank - 100,000 Gallons	TN	1	35	35	125.40	4,386	0.00	0	50.00	1,749
Elevated Water Storage Tank - Foundation-Concrete	CY	1	155	155	50.40	7,812	89.00	13,795	0.00	0
Subtotal						31,257		33,731		3,640
Intake System										
Intake Structure - Reinforced Concrete	CY	1	692	692	50.40	34,852	89.00	61,544	0.00	0
Intake Structure - Structural Steel	TN	1	21	21	125.40	2,633	0.00	0	50.00	1,050
Intake Structure - Wingwall Cap & Crane Rail Pads	CY	1	31	31	50.40	1,568	89.00	2,769	0.00	0
Intake Structure - Traveling Water Screens	TN	2	11	23	167.20	3,812	0.00	0	50.00	1,140
Intake Structure - Screen Wash Pumps W/ Motors	TN	2	3	6	167.20	1,003	0.00	0	50.00	300
Intake Structure - Concrete Stop Logs	CY	1	12	12	50.40	580	89.00	1,024	0.00	0
Intake Cooling Water Pumps and motors	TN	2	3	6	167.20	1,003	0.00	0	50.00	300
Intake Lube Water Well Pumps - Concrete Foundation	CY	1	13	13	50.40	655	89.00	1,157	0.00	0
Intake Structure - Bridge Crane and Hoists	TN	1	2	2	167.20	334	0.00	0	50.00	100
Intake Conduit - 54" Reinforced Concrete Pipe	CY	1	47	47	193.20	9,150	0.00	0	0.00	0
Intake Transition Blocks - Concrete	CY	1	91	91	50.40	4,561	89.00	8,055	0.00	0
Intake Screen Refuse Line - Cast Iron Pipe	TN	1	1	1	228.00	228	0.00	0	50.00	50
Intake Screen Refuse Line - Concrete Pipe	CY	1	13	13	50.40	661	89.00	1,168	0.00	0
Subtotal						61,041		75,715		2,940
Discharge System										
Discharge Conduit - 54" Reinforced Concrete Pipe	CY	1	175	175	193.20	33,746	0.00	0	0.00	0
Discharge Transition and Thrust Blocks	CY	1	102	102	50.40	5,141	89.00	9,078	0.00	0
Discharge Structure - Reinforced Concrete	CY	1	187	187	50.40	9,400	89.00	16,599	0.00	0
Discharge Structure - Concrete Stop Logs	CY	1	12	12	50.40	580	89.00	1,024	0.00	0
Subtotal						48,866		26,700		0
Station Structures										
Substructure Reinforced Concrete - Miscellaneous	CY	1	192	192	50.40	9,652	89.00	17,044	0.00	0
Structural Steel-Main Steel-incl. crane and elevator	TN	1	292	292	125.40	36,662	0.00	0	50.00	14,618
Steel - Hand Railing and Miscellaneous	TN	1	54	54	167.20	9,029	0.00	0	50.00	2,700
Battery and Control Room - Conc Blocks(895)	CY	1	15	15	20.16	296	89.00	1,306	0.00	0
Station Floors - Reinforced Concrete	CY	1	175	175	50.40	8,820	89.00	15,575	0.00	0
Station Roof - Hol-O-Rib Steel Framing	TN	1	4	4	269.80	987	0.00	0	50.00	183
Station Crane - Colby 50/15 Ton Gantry Crane	TN	1	25	25	125.40	3,135	0.00	0	50.00	1,250
Station Elevator - Westinghouse 1200 lb capacity	TN	1	9	9	167.20	1,505	0.00	0	50.00	450
Hydrogen Storage Shelter - Concrete	CY	1	7	7	20.16	150	89.00	662	0.00	0
Miscellaneous Grating and Steel Plates	TN	1	54	54	269.80	14,507	0.00	0	50.00	2,689

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Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Compo- nents	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Subtotal						84,743		34,586		21,890
Total Account 311						273,274		304,243		48,285
FERC Account 312										
Boiler Plant Equipment										
Fuel Oil & Gas Equipment										
Fuel - Swing Oil Tank(6,000 BBI)	TN	1	27	27	n/a	12,500	0.00	0	50.00	1,333
Fuel - Service Tank(6,000 BBI)	TN	1	27	27	n/a	12,500	0.00	0	50.00	1,333
Soil Remediation - Swing Oil & Service Tanks	EA	1	n/a	n/a	n/a	0	n/a	16,140	n/a	0
Fuel Tanks - Foundations for both - concrete	CY	1	n/a	n/a	n/a	0	n/a	39,344	n/a	0
Cleaning Swing Oil And Service Tanks	EA	1	n/a	n/a	n/a	0	n/a	14,400	n/a	0
Fuel Oil Pumps	TN	5	1	5	167.20	836	0.00	0	50.00	250
Fuel Oil Heaters	TN	12	1	12	167.20	2,006	0.00	0	50.00	600
Fuel Oil Burner Pumps - Regular	TN	3	2	5	167.20	752	0.00	0	50.00	225
Fuel Oil Burners	TN	16	1	10	167.20	1,605	0.00	0	50.00	480
Fuel Oil MeteringTanks - 12,000 BBLS - Removal & Cleaning	BBLS	1	12,000	12,000	n/a	12,500	n/a	13,000	0.00	0
Demolition of Foundation	EA	n/a	n/a	n/a	n/a	n/a	n/a	25,883	0.00	0
Soil Remediation	EA	n/a	n/a	n/a	n/a	n/a	n/a	10,619	0.00	0
Fuel Oil Piping Insulation	CY	1	135	135	38.00	5,130	11.00	22,364	0.00	0
Fuel Oil Piping Insulation	CY	1	757	757	1,250.00	946,250	100.00	75,700	0.00	0
Subtotal						994,080		217,450		4,221
Boiler Equipment										
Boiler Frame	TN	1	830	830	125.40	104,082	0.00	0	50.00	41,500
Platforms, Grating & Handrails	TN	1	185	185	167.20	30,932	0.00	0	50.00	9,250
Boiler Foundation - Reinforced Concrete	CY	1	788	788	50.40	39,690	89.00	70,088	0.00	0
Boiler Drum	TN	1	114	114	125.40	14,258	0.00	0	50.00	5,685
Boiler Other - Including:	TN									
Furnace Walls	TN	1	354	354	125.40	44,373	0.00	0	50.00	17,693
Reheater and RH attemperator	TN	1	129	129	125.40	16,202	0.00	0	50.00	6,460
Superheater and SH Attemperator	TN	1	372	372	125.40	46,693	0.00	0	50.00	18,618
Economozier	TN	1	67	67	125.40	8,352	0.00	0	50.00	3,330
Sootblowers	TN	1	11	11	167.20	1,797	0.00	0	50.00	538
Mountings	TN	1	18	18	167.20	3,010	0.00	0	50.00	900
Exterior Casing	TN	1	85	85	167.20	14,212	0.00	0	50.00	4,250
Burners	TN	1	26	26	167.20	4,347	0.00	0	50.00	1,300
Silencers and Discharge Piping	TN	1	22	22	167.20	3,734	0.00	0	50.00	1,117
Insulation	CY	1	60	60	38.00	2,280	11.00	22,364	0.00	0
Insulation	CY	1	450	450	1,250.00	562,500	100.00	45,000	0.00	0
Downcomers	TN	1	28	28	125.40	3,511	0.00	0	50.00	1,400
Attemperators and SH Control	TN	1	2	2	125.40	188	0.00	0	50.00	75
Refractory	TN	1	115	115	1,250.00	143,750	100.00	11,500	0.00	0
Air Preheater	TN	2	113	227	125.40	28,441	0.00	0	50.00	11,340
Miscellaneous Steel and Equipment	TN	1	63	63	167.20	10,510	0.00	0	50.00	3,143
Subtotal						1,082,861		148,952		126,597
Boiler Plant Auxillaries										
H.P. Feedwater Heater #1	TN	1	24	24	125.40	2,947	0.00	0	50.00	1,175
H.P. Feedwater Heater #2	TN	1	21	21	125.40	2,684	0.00	0	50.00	1,070
I.P. Feedwater Heater #3	TN	1	8	8	125.40	991	0.00	0	50.00	395
L.P. Feedwater Heater #4	TN	1	10	10	125.40	1,292	0.00	0	50.00	515
L.P. Feedwater Heater #5	TN	1	10	10	125.40	1,292	0.00	0	50.00	515
L.P. Feedwater Heater #6	TN	1	15	15	125.40	1,900	0.00	0	50.00	758

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Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Compo- nents	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Boiler Feed Pumps (including motors)	TN	3	8	23	167.20	3,762	0.00	0	50.00	1,125
Condensate Storage Tank - 60,000 Gal	TN	1	20	20	167.20	3,289	0.00	0	50.00	984
Condensate Storage Tank Foundation	CY	1	12	12	50.40	625	89.00	1,104	0.00	0
Condensate Recovery Tank - 2,600 Gal	TN	1	2	2	167.20	251	0.00	0	50.00	75
Condensate Recovery Tank Foundation	CY	1	4	4	50.40	178	89.00	315	0.00	0
Condensate Collecting Cooler	TN	1	1	1	167.20	167	0.00	0	50.00	50
Blowdown/flash tank	TN	1	3	3	167.20	418	0.00	0	50.00	125
Condensate Pump motor	TN	3	3	10	167.20	1,605	0.00	0	50.00	480
Condensate Pump	TN	3	2	5	167.20	752	0.00	0	50.00	225
Instrument Air Compressors	TN	2	4	7	167.20	1,170	0.00	0	50.00	350
Miscellaneous Steel and Equipment	TN	1	7	7	167.20	1,092	0.00	0	50.00	327
Subtotal						24,414		1,419		8,168
Boiler Plant Piping										
Main Steam Piping	TN	1	21	21	125.40	2,640	0.00	0	50.00	1,053
Hot Reheat Piping	TN	1	34	34	125.40	4,316	0.00	0	50.00	1,721
Cold Reheat Piping	TN	1	29	29	125.40	3,647	0.00	0	50.00	1,454
Condensate and Air Evaporation	TN	1	47	47	167.20	7,910	0.00	0	50.00	2,366
Extraction Steam Piping	TN	1	8	8	167.20	1,384	0.00	0	50.00	414
Boiler Feed Piping	TN	1	11	11	125.40	1,327	0.00	0	50.00	529
Boiler Feed/Plant Piping Insulation	CY	1	50	50	38.00	1,900	11.00	550	0.00	0
Boiler Feed/Plant Piping Insulation	CY	1	320	320	1,250.00	400,000	100.00	32,000	0.00	0
Silencers	TN	1	1	1	269.80	324	0.00	0	50.00	60
Saturated Auxiliary Steam - Piping	TN	1	35	35	167.20	5,842	0.00	0	50.00	1,747
Service & Cooling Water Piping	TN	1	58	58	269.80	15,638	0.00	0	50.00	2,898
Instrument, Sampling & Control Piping	TN	1	37	37	269.80	10,107	0.00	0	50.00	1,873
Miscellaneous Steel and Equipment	TN	1	14	14	167.20	2,359	0.00	0	50.00	706
Subtotal						457,393		32,550		14,820
Feedwater Treatment and Cooling Water Equipment										
Cooling Water Pumps	TN	2	2	4	167.20	669	0.00	0	50.00	200
Cooling Water Heat Exchangers	TN	2	2	3	269.80	809	0.00	0	50.00	150
Cooling Water Piping - 30" conc(intk to disch, 1000 lf)	CY	1	272	272	50.40	13,712	89.00	24,214	0.00	0
Subtotal						15,191		24,214		350
Boiler Chemical Cleaning System										
Lime Slurry Mixing Tank - 1,200 Gal	TN	1	3	3	269.80	809	0.00	0	50.00	150
Caustic Mixing Tank - 1,200 Gal	TN	1	2	2	269.80	607	0.00	0	50.00	113
Caustic Solution Tank - 3,000 Gal	TN	1	2	2	269.80	607	0.00	0	50.00	113
Subtotal						2,024		0		375
Forced and Induced Draft Equipment										
FD Fans Foundations - Reinforced Concrete	CY	1	29	29	50.40	1,462	89.00	2,581	0.00	0
FD Fans w/ motors	TN	2	31	62	125.40	7,782	0.00	0	50.00	3,103
FD Air Ducts	TN	1	69	69	167.20	11,579	0.00	0	50.00	3,463
ID Fans Foundations - Reinforced concrete	CY	1	33	33	50.40	1,663	89.00	2,937	0.00	0
ID Fans w/ motors	TN	2	31	62	125.40	7,782	0.00	0	50.00	3,103
Gas ducts	TN	1	69	69	167.20	11,579	0.00	0	50.00	3,463
Stack Foundation - Reinforced Concrete	CY	1	616	616	50.40	31,046	89.00	54,824	0.00	0
Stack - Lining/Shaft	CY	1	520	520	50.40	26,195	89.00	46,258	0.00	0
Miscellaneous Steel and Equipment	TN	1	10	10	167.20	1,677	0.00	0	50.00	502
Insulation	CY	1	50	50	38.00	1,900	11.00	22,364	0.00	0
Insulation	CY	1	300	300	1,250.00	375,000	100.00	30,000	0.00	0
Subtotal						477,665		158,964		13,633

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Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Total Account 312						3,053,627		583,548		168,163
FERC Account 314										
Turbo-Generator Units										
Pedestal - Reinforced Concrete	CY	1	993	993	50.40	50,047	89.00	88,377	0.00	0
Turbo-Generator Unit	TN	1	534	534	95.00	50,702	0.00	0	50.00	26,685
Turbine Piping	TN	1	207	207	125.40	25,983	0.00	0	50.00	10,360
Turbine Copper	TN	1	48	48	400.00	19,200	0.00	0	710.00	34,080
Turbine Enclosure	TN	1	15	15	125.40	1,850	0.00	0	50.00	738
Miscellaneous Steel and Equipment	TN	1	15	15	167.20	2,526	0.00	0	50.00	756
Turbine Insulation	CY	1	210	210	1,250.00	262,500	100.00	21,000	0.00	0
Subtotal						412,808		109,377		72,618
Condensers and Auxiliaries										
Condenser Shell	TN	1	285	285	125.40	35,739	0.00	0	50.00	14,250
Condenser - Aluminum-Brass Tubes	TN	1	86	86	269.80	23,068	0.00	0	140.00	11,970
Condenser Foundation - Reinforced Concrete	CY	1	18	18	50.40	907	89.00	1,602	0.00	0
Circulating Water Pumps - 58,000 gpm(incl. motors)	TN	2	30	59	167.20	9,865	0.00	0	50.00	2,950
Circulating Water Piping - Cast Iron, incl. valves	TN	1	95	95	167.20	15,812	0.00	0	50.00	4,729
Condensate Pumps - 12" suction, 8" dischrg(incl. mtrs)	TN	3	16	48	167.20	8,011	0.00	0	50.00	2,396
Condensate Pump - Foundation - RI Concrete	CY	1	11	11	50.40	529	89.00	935	0.00	0
Turbine Oil Resvoir	TN	1	47	47	167.20	7,858	0.00	0	50.00	2,350
Lube Oil Storage Tank (Bowser)	TN	1	24	24	167.20	3,929	0.00	0	50.00	1,175
Miscellaneous Steel and Equipment	TN	1	13	13	167.20	2,150	0.00	0	50.00	643
Subtotal						107,869		2,537		40,462
Total Account 314						520,676		111,914		113,080
FERC Account 315										
Accessory Electrical Equipment										
Foundations & Structures										
Main Generator Leads & Enclosures(Copper)	TN	1	10	10	456.00	4,560	0.00	0	710.00	7,100
Manholes and Hanholes - Concrete	CY	1	118	118	20.16	2,369	89.00	10,458	0.00	0
Transformer(start-up) Foundations - Concrete	CY	1	16	16	50.40	806	89.00	1,424	0.00	0
Switchgear Foundations - Concrete	CY	1	43	43	50.40	2,142	89.00	3,783	0.00	0
Load Control Centers Foundations - Concrete	CY	1	53	53	50.40	2,646	89.00	4,673	0.00	0
Aux Power Transformer - 7,500 kva	TN	1	17	17	269.80	4,581	0.00	0	50.00	849
Startup Transformer	TN	1	20	20	269.80	5,474	0.00	0	50.00	1,015
Station Service Transformer	TN	4	3	12	269.80	3,130	0.00	0	50.00	580
Transformer Copper	TN	1	16	16	300.00	4,821	0.00	0	710.00	11,410
Transformer - Unloading Dock	TN	1	2	2	269.80	459	0.00	0	50.00	85
Storage Battery	TN	1	3	3	269.80	809	0.00	0	50.00	150
Underground Ducts - Concrete	CY	1	401	401	50.40	20,185	89.00	35,645	0.00	0
Conduit - rigid alum. - 3" to 5"	TN	1	43	43	269.80	11,520	0.00	0	540.00	23,058
Exposed Conduits and CableTrays	TN	1	87	87	269.80	23,429	0.00	0	540.00	46,894
Buswork and Copper Tubing	TN	1	1	1	269.80	270	0.00	0	710.00	710
Load and Motor Control Centers	TN	1	5	5	269.80	1,214	0.00	0	50.00	225
Power/Control Wiring - 135,300 ft.	TN	1	85	85	456.00	38,559	0.00	0	760.00	64,266
Main Control Board for B-T-G	TN	1	3	3	269.80	809	0.00	0	50.00	150
Switchgear - 2,400v Metalclad	TN	1	20	20	269.80	5,396	0.00	0	50.00	1,000
Switchgear - 480v Metalclad	TN	1	18	18	269.80	4,856	0.00	0	50.00	900
Total Account 315						138,038		55,981		158,390

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Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
FERC Account 316										
Miscellaneous Power Plant Equipment										
Service Air Compressor	TN	1	8	8	167.20	1,338	0.00	0	50.00	400
Air Compressor - Concrete Foundation	CY	1	11	11	50.40	554	89.00	979	0.00	0
Total Account 316						1,892		979		400
FERC Account 353										
Substation Equipment										
Miscellaneous Steel	TN	1	3	3	269.80	809	0.00	0	50.00	150
Miscellaneous Concrete	CY	1	30	30	50.40	1,512	89.00	2,670	0.00	0
Main Power Transformers - 180,000kva	TN	1	142	142	167.20	23,791	0.00	0	50.00	7,115
Transformer Copper	TN	1	57	57	300.00	17,076	0.00	0	710.00	40,413
Oil Circuit Breaker - 138 kva, 1200 amp	TN	3	9	26	269.80	6,880	0.00	0	50.00	1,275
Main Power Transformers - Foundation(incl all)	CY	1	40	40	50.40	2,016	89.00	3,560	0.00	0
Oil Circuit Breakers - Foundation	CY	1	16	16	50.40	781	89.00	1,380	0.00	0
Conduits - Concrete	CY	1	172	172	20.16	3,468	89.00	15,308	0.00	0
Conduit - rigid alum - 2" to 3"	TN	1	4	4	269.80	1,044	0.00	0	540.00	2,090
Buswork and Copper Tubing	TN	1	2	2	269.80	540	0.00	0	710.00	1,420
Power/Control Wiring - 31,000 ft.	TN	1	19	19	456.00	8,837	0.00	0	760.00	14,729
Total Account 353						66,754		22,918		67,191
TOTAL FT. MYERS UNIT 1						4,054,261		1,079,582		555,509
FORT MYERS UNIT 2										
FERC Account 311										
Site Sewer System										
Storm Sewers and Drains - Concrete(8" - 48")	CY	1	55	55	50.40	2,752	89.00	4,859	0.00	0
Floor Drains, Sump Pumps & Oily Sep. - 6" CI Pipe	TN	1	73	73	228.00	16,701	0.00	0	50.00	3,663
Oil Separator	CY	1	38	38	50.40	1,915	89.00	3,382	0.00	0
Subtotal						21,368		8,241		3,663
Fuel Oil System/Area										
Fuel Oil Storage Tank - 180,000 BBLs	TN	1	534	534	n/a	25,000	0.00	0	50.00	26,700
Fuel Oil Storage Tank - Cleaning	EA	1	n/a	n/a	n/a	0	n/a	138,270	0.00	0
Soil Remediation	EA	1	n/a	n/a	n/a	0	n/a	68,936	0.00	0
Fuel Oil - Concrete Pipe Trenches	CY	1	68	68	50.40	3,427	89.00	6,052	0.00	0
Fuel Oil - Transfer Pit Sump Pumps	TN	2	1	2	167.20	411	0.00	0	50.00	123
Fuel Oil Pipe - Reinforced Concrete Supports ovr/canal	CY	1	180	180	50.40	9,072	89.00	16,020	0.00	0
Ash Disposal Basin	CY	1	18	18	50.40	907	89.00	1,602	0.00	0
Fuel Oil Piping - Steel (6" - 18")	TN	1	84	84	167.20	14,115	0.00	0	50.00	4,221
Subtotal						52,933		230,880		31,044
Service Water and Raw Water Systems										
Water Treatment - Area Slab - Concrete	CY	1	167	167	50.40	8,417	89.00	14,863	0.00	0
Water Treatment - Chlorination System	TN	1	2	2	167.20	334	0.00	0	50.00	100
Fire Protection Piping - CI 2.5" to 8"	TN	1	5	5	228.00	1,149	0.00	0	50.00	252
Raw Water Storage Tank - 100,000 gal.	TN	1	27	27	167.20	4,585	0.00	0	50.00	1,371
Service Water - Cast Iron Piping - 4" to 6"	TN	1	34	34	228.00	7,670	0.00	0	50.00	1,682
Subtotal						22,155		14,863		3,405
Intake System										
Intake Structure - Reinforced Concrete	CY	1	1,273	1,273	50.40	64,159	89.00	113,297	0.00	0
Intake Structure - Structural Steel(incl. crane)	TN	1	46	46	125.40	5,768	0.00	0	50.00	2,300
Intake Structure - Wingwall Cap & Crane Rail Pads	CY	1	106	106	50.40	5,342	89.00	9,434	0.00	0

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Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Intake Structure - Traveling Water Screens	TN	2	16	32	167.20	5,290	0.00	0	50.00	1,582
Intake Structure - Screen Wash Pumps	TN	2	4	8	167.20	1,338	0.00	0	50.00	400
Intake Structure - Concrete Stop Logs	CY	1	12	12	50.40	580	89.00	1,024	0.00	0
Intake Cooling Water Pump Motors	TN	2	2	4	167.20	669	0.00	0	50.00	200
Intake Cooling Water Pumps	TN	2	1	2	167.20	334	0.00	0	50.00	100
Intake Structure - Hoists/Crane	TN	1	4	4	167.20	585	0.00	0	50.00	175
Intake Conduit - Reinforced Concrete Pipe,78"	CY	1	45	45	193.20	8,682	0.00	0	0.00	0
Intake Transition Blocks - Concrete	CY	1	346	346	50.40	17,438	89.00	30,794	0.00	0
Intake Screen Refuse Line - Concrete Pipe	CY	1	507	507	50.40	25,536	89.00	45,094	0.00	0
Intake Screen Refuse Line - Cast Iron Pipe	TN	1	2	2	228.00	534	0.00	0	50.00	117
Subtotal						136,256		199,642		4,874
Discharge System										
Discharge Conduit - 78" Reinforced Concrete Pipe	CY	1	213	213	193.20	41,240	0.00	0	0.00	0
Discharge Transition and Thrust Blocks	CY	1	401	401	50.40	20,210	89.00	35,689	0.00	0
Discharge Structure - Reinforced Concrete	CY	1	427	427	50.40	21,521	89.00	38,003	0.00	0
Discharge Structure - Concrete Stop Logs	CY	1	12	12	50.40	580	89.00	1,024	0.00	0
Subtotal						83,551		74,716		0
Station Structures										
Substructure concrete footings, piers, beams	TN	1	253	253	50.40	12,751	89.00	22,517	0.00	0
Substructure Reinforced Concrete - Miscellaneous	CY	1	1,946	1,946	50.40	98,078	89.00	173,194	0.00	0
Structural Steel - Main Steel	TN	1	297	297	125.40	37,244	0.00	0	50.00	14,850
Steel - Hand Railing and Miscellaneous	TN	1	162	162	167.20	27,086	0.00	0	50.00	8,100
Station Floors & Roof - Reinforced Concrete	CY	1	187	187	50.40	9,425	89.00	16,643	0.00	0
Station Crane - Colby 50/15 Ton Gantry Crane	TN	1	35	35	125.40	4,389	0.00	0	50.00	1,750
Station Elevator - Westinghouse 1200 lb capacity	TN	1	9	9	167.20	1,505	0.00	0	50.00	450
Boiler Feed Pump Room - Concrete Block and Roof	CY	1	127	127	20.16	2,551	89.00	11,263	0.00	0
Forced Draft Room - Concrete	CY	1	354	354	20.16	7,144	89.00	31,540	0.00	0
Diesel Generator Building - Concrete	CY	1	25	25	20.16	504	89.00	2,225	0.00	0
Emergency Diesel Generators	TN	2	8	16	167.20	2,675	0.00	0	50.00	800
Hydrogen Storage Shelter - Concrete	CY	1	17	17	20.16	342	89.00	1,510	0.00	0
Air Intake Labyrinths - Steel	TN	1	27	27	167.20	4,514	0.00	0	50.00	1,350
Subtotal						208,210		258,892		27,300
Total Account 311						524,473		787,234		70,286
FERC Account 312										
Boiler Plant Equipment										
Fuel Oil & Gas Equipment										
Fuel - Metering Oil Tank(12,000 BBL)	TN	1	51	51	n/a	12,500	0.00	0	50.00	2,566
Fuel Tank - Foundation and firewall	CY	1	256	256	n/a	0	n/a	25,883	0.00	0
Soil Remediation	EA	1	n/a	n/a	n/a	n/a	n/a	10,619	n/a	0
Tank Cleaning Cost	EA	1	n/a	n/a	n/a	n/a	n/a	13,000	n/a	0
Fuel Oil Unloading Pump Motor	TN	1	3	3	167.20	518	0.00	0	50.00	155
Fuel Oil Transfer Pumps	TN	1	5	5	167.20	819	0.00	0	50.00	245
Fuel Oil Heaters and strainers	TN	1	22	22	167.20	3,595	0.00	0	50.00	1,075
Fuel Oil Burner Pumps - Regular	TN	3	1	4	167.20	727	0.00	0	50.00	218
Fuel Oil Burner Pumps Motors - Regular	TN	3	1	4	167.20	727	0.00	0	50.00	218
Fuel Oil Booster Pump	TN	2	1	2	167.20	410	0.00	0	50.00	123
Fuel Oil Booster Pump Motor	TN	2	2	4	167.20	602	0.00	0	50.00	180
Fuel Oil Burners & Igniters	TN	18	2	36	167.20	6,019	0.00	0	50.00	1,800
Fuel Oil Piping - 2" to 4" carbon steel	TN	1	27	27	167.20	4,501	0.00	0	50.00	1,346
Fuel Oil Piping - Supports - Concrete	CY	1	41	41	50.40	2,066	89.00	3,649	0.00	0

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Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Fuel Oil Piping Insulation	CY	1	892	892	1,250.00	1,114,375	100.00	89,150	0.00	0
Subtotal						1,146,860		142,301		7,925
Boiler Equipment										
Boiler Frame	TN	1	1,281	1,281	125.40	160,637	0.00	0	50.00	64,050
Platforms, Grating & Handrails	TN	1	222	222	167.20	37,118	0.00	0	50.00	11,100
Boiler Drum	TN	1	290	290	125.40	36,366	0.00	0	50.00	14,500
Boiler Other - Including:										
Air Preheater and lances	TN	2	242	484	125.40	60,694	0.00	0	50.00	24,200
Sootblowers	TN	30	2	62	167.20	10,366	0.00	0	50.00	3,100
Hangers and Supports and links	TN	1	210	210	167.20	35,112	0.00	0	50.00	10,500
Headers	TN	1	275	275	125.40	34,485	0.00	0	50.00	13,750
Downcomers	TN	1	337	337	125.40	42,260	0.00	0	50.00	16,850
Trimpipe	TN	1	38	38	167.20	6,354	0.00	0	50.00	1,900
Seal Air Piping	TN	1	16	16	167.20	2,675	0.00	0	50.00	800
Furnace Tubes	TN	1	668	668	125.40	83,767	0.00	0	50.00	33,400
Superheater	TN	1	720	720	125.40	90,288	0.00	0	50.00	36,000
Reheater	TN	1	271	271	125.40	33,983	0.00	0	50.00	13,550
Economizer	TN	1	390	390	125.40	48,906	0.00	0	50.00	19,500
Furnace Guides(Buckstays)	TN	1	245	245	167.20	40,964	0.00	0	50.00	12,250
Penthouse	TN	1	45	45	125.40	5,643	0.00	0	50.00	2,250
Inner Casing & seals	TN	1	30	30	167.20	5,016	0.00	0	50.00	1,500
Outer Casing and doors	TN	1	209	209	167.20	34,945	0.00	0	50.00	10,450
Conduit - rigid alum - 2" 14,800 l.f.	TN	1	10	10	269.80	2,574	0.00	0	540.00	5,152
Miscellaneous Steel and Equipment	TN	1	110	110	167.20	18,394	0.00	0	50.00	5,501
Insulation	CY	1	970	970	1,250.00	1,212,988	100.00	97,039	0.00	0
Subtotal						2,003,535		97,039		300,302
Boiler Plant Auxiliaries										
L.P. Feedwater Heater #1	TN	1	21	21	125.40	2,583	0.00	0	50.00	1,030
L.P. Feedwater Heater #2	TN	1	12	12	125.40	1,549	0.00	0	50.00	618
L.P. Feedwater Heater #3	TN	1	12	12	125.40	1,524	0.00	0	50.00	608
L.P. Feedwater Heater #4	TN	1	15	15	125.40	1,937	0.00	0	50.00	773
L.P. Feedwater Heater #5	TN	1	17	17	125.40	2,126	0.00	0	50.00	848
H.P. Feedwater Heater #6	TN	1	44	44	125.40	5,574	0.00	0	50.00	2,223
H.P. Feedwater Heater #7	TN	1	53	53	125.40	6,640	0.00	0	50.00	2,648
Boiler Feed Pumps	TN	4	27	108	167.20	18,058	0.00	0	50.00	5,400
Boiler Feed Pump Motors	TN	4	11	42	167.20	7,022	0.00	0	50.00	2,100
Condensate Storage Tank - 150,000 Gal	TN	1	54	54	167.20	9,037	0.00	0	50.00	2,703
Condensate Storage Tank Foundation	CY	1	130	130	50.40	6,552	89.00	11,570	0.00	0
Condensate Recovery Tank	TN	2	1	3	167.20	485	0.00	0	50.00	145
Condensate Recovery Tank Foundation	CY	2	4	7	50.40	358	89.00	632	0.00	0
Condensate Recovery Cooler	TN	1	1	1	167.20	167	0.00	0	50.00	50
Condensate Transfer Pump Motors	TN	2	4	8	167.20	1,346	0.00	0	50.00	403
Heater Drain Pump Motors	TN	1	2	2	167.20	293	0.00	0	50.00	88
Blowdown Tank	TN	1	1	1	167.20	209	0.00	0	50.00	63
Miscellaneous Steel and Equipment	TN	1	20	20	167.20	3,279	0.00	0	50.00	981
Subtotal						68,738		12,202		20,676
Boiler Plant Piping										
Main Steam Piping	TN	1	70	70	125.40	8,798	0.00	0	50.00	3,508
Hot Reheat Piping	TN	1	115	115	125.40	14,387	0.00	0	50.00	5,737
Cold Reheat Piping	TN	1	97	97	125.40	12,155	0.00	0	50.00	4,847
Condensate and Air Evaporation	TN	1	158	158	167.20	26,366	0.00	0	50.00	7,885

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Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Compo- nents	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Extraction Steam Piping	TN	1	28	28	167.20	4,615	0.00	0	50.00	1,380
Boiler Feed Piping	TN	1	35	35	125.40	4,424	0.00	0	50.00	1,764
Boiler Feed/Plant Piping Insulation	CY	1	485	485	1,250.00	608,500	100.00	48,520	0.00	0
Silencers	TN	3	2	5	167.20	752	0.00	0	50.00	225
Saturated Auxiliary Steam - Piping	TN	1	116	116	167.20	19,470	0.00	0	50.00	5,823
Service & Cooling Water Piping	TN	1	193	193	269.80	52,128	0.00	0	50.00	9,661
Instrument, Sampling & Control Piping	TN	1	125	125	269.80	33,685	0.00	0	50.00	6,243
Closed Cooling Water System - Piping	TN	1	66	66	167.20	11,085	0.00	0	50.00	3,315
Service Air Compressor Complete	TN	2	7	14	167.20	2,341	0.00	0	50.00	700
Instrument Air Compressor Complete	TN	2	3	6	167.20	1,003	0.00	0	50.00	300
Service Air Tank	TN	1	12	12	167.20	2,006	0.00	0	50.00	600
Instrument Air Tank	TN	1	15	15	167.20	2,508	0.00	0	50.00	750
Sealing Air Piping	TN	1	33	33	269.80	8,860	0.00	0	50.00	1,642
Miscellaneous Steel and Equipment	TN	1	55	55	167.20	9,114	0.00	0	50.00	2,726
Miscellaneous Piping	TN	1	16	16	269.80	4,209	0.00	0	50.00	780
Subtotal						824,407		48,520		57,883
Feedwater Treatment and Cooling Water Equipment										
Deminerizer										
Retention Tank - 20,000 Gal Cap	TN	1	6	6	167.20	1,003	0.00	0	50.00	300
Demin. Gas Chlorinator	TN	1	2	2	167.20	251	0.00	0	50.00	75
Cooling Water Pumps	TN	2	4	8	167.20	1,338	0.00	0	50.00	400
Cooling Water Heat Exchangers	TN	2	12	24	269.80	6,475	0.00	0	50.00	1,200
Subtotal						9,067		0		1,975
Boiler Chemical Cleaning System										
Lime Slurry Mixing Tank - 4,000 Gal	TN	1	1	1	269.80	389	0.00	0	50.00	72
Caustic Solution Tank - 4,000 Gal	TN	1	1	1	269.80	389	0.00	0	50.00	72
Subtotal						777		0		144
Forced and Induced Draft Equipment										
FD Fans Foundations - Reinforced Concrete	CY	1	206	206	50.40	10,382	89.00	18,334	0.00	0
FD Fans w/ motors and couplings	TN	2	15	30	125.40	3,762	0.00	0	50.00	1,500
FD Air Ducts(incl. windboxes)	TN	1	146	146	167.20	24,411	0.00	0	50.00	7,300
Insulation	CY	1	628	628	1,250.00	784,875	100.00	62,790	0.00	0
Gas ducts	TN	2	192	383	167.20	64,038	0.00	0	50.00	19,150
Stack Foundation - Reinforced Concrete	CY	1	788	788	50.40	39,715	89.00	70,132	0.00	0
Stack - Breeching	TN	1	60	60	167.20	10,032	0.00	0	0.00	0
Dust - Collectors	TN	1	174	174	167.20	29,093	0.00	0	50.00	8,700
Dust - Piping	TN	1	21	21	167.20	3,469	0.00	0	50.00	1,038
Carbon Reinjection Piping	TN	1	1	1	167.20	191	0.00	0	50.00	57
Miscellaneous Steel and Equipment	TN	1	41	41	167.20	6,879	0.00	0	50.00	2,057
Steam Coil Air Heater	TN	1	8	8	167.20	1,338	0.00	0	50.00	400
Subtotal						978,184		151,256		40,202
Total Account 312						5,031,568		451,318		429,105
FERC Account 314										
Turbo-Generator Units										
Pedestal - Reinforced Concrete	CY	1	1,783	1,783	50.40	89,863	89.00	158,687	0.00	0
Turbine - Rotor	TN	1	118	118	95.00	11,197	0.00	0	50.00	5,893
Turbine - Stator	TN	1	201	201	95.00	19,139	0.00	0	50.00	10,073
Stator Cooling Liquid Unit	TN	1	10	10	125.40	1,254	0.00	0	50.00	500
Terminal Box and Bushings	TN	1	10	10	125.40	1,251	0.00	0	50.00	499

FT. MYERS

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Compo- nents	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Outer Shield - Upper Turbine end	TN	1	4	4	95.00	372	0.00	0	50.00	196
Outer Shield - Lower End	TN	1	6	6	95.00	549	0.00	0	50.00	289
Hydrogen Seal unit	TN	1	3	3	95.00	277	0.00	0	50.00	146
H.P. Upper Shell	TN	1	57	57	95.00	5,390	0.00	0	50.00	2,837
H.P. Lower Shell	TN	1	73	73	95.00	6,977	0.00	0	50.00	3,672
Exh. Hood - Upper	TN	1	32	32	95.00	3,051	0.00	0	50.00	1,606
Exh. Hood - Lower	TN	1	88	88	95.00	8,338	0.00	0	50.00	4,389
Inner Casing - Upper	TN	1	52	52	95.00	4,979	0.00	0	50.00	2,621
Inner Casing - Lower	TN	1	38	38	95.00	3,589	0.00	0	50.00	1,889
Inner Shell - HP Upper	TN	1	14	14	95.00	1,340	0.00	0	50.00	705
Inner Shell - HP Lower	TN	1	16	16	95.00	1,519	0.00	0	50.00	800
Inner Shell #2 - Upper	TN	1	6	6	95.00	592	0.00	0	50.00	312
Inner Shell #2 - Lower	TN	1	6	6	95.00	592	0.00	0	50.00	312
Turbine Stop Valves	TN	2	38	75	125.40	9,446	0.00	0	50.00	3,767
Turbine Combination/Reheat Valves	TN	2	26	52	125.40	6,543	0.00	0	50.00	2,609
Turbine Piping	TN	1	260	260	125.40	32,604	0.00	0	50.00	13,000
Turbine Insulation	CY	1	700	700	1,250.00	875,000	100.00	70,000	0.00	0
Turbine Enclosure	TN	1	37	37	125.40	4,608	0.00	0	50.00	1,838
Turbine Copper	TN	1	60	60	400.00	24,000	0.00	0	710.00	42,600
Miscellaneous Steel and Equipment	TN	1	23	23	167.20	3,876	0.00	0	50.00	1,159
Turbine Generator Mat - concrete	CY	1	60	60	50.40	3,024	89.00	5,340	0.00	0
Subtotal						1,119,372		234,027		101,709
Condensers and Auxiliaries										
Condenser Shell	TN	1	868	868	125.40	108,785	0.00	0	50.00	43,375
Condenser - Aluminum-Brass Tubes	TN	1	215	215	269.80	57,872	0.00	0	140.00	30,030
Condenser Foundation - Reinforced Concrete	CY	1	110	110	50.40	5,544	89.00	9,790	0.00	0
Circulating Water Pumps - 58,000 gpm	TN	2	49	97	167.20	16,269	0.00	0	50.00	4,865
Circulating Water Pump Motors	TN	2	16	32	167.20	5,267	0.00	0	50.00	1,575
Condensate Pumps - 12" suction, 8" dischrg(incl mtrs)	TN	2	15	30	167.20	5,043	0.00	0	50.00	1,508
Condensate Pump - Foundation - RI Concrete	CY	1	11	11	50.40	570	89.00	1,006	0.00	0
Turbine Oil Conditioner	TN	1	2	2	167.20	354	0.00	0	50.00	106
Turbine Lube Oil Coolers	TN	1	4	4	167.20	709	0.00	0	50.00	212
Hydrogen Coolers	TN	4	2	9	167.20	1,448	0.00	0	50.00	433
Bearing Cooling Water Pump Motor	TN	2	1	3	167.20	451	0.00	0	50.00	135
Lube Oil Storage Tank	TN	1	24	24	167.20	3,929	0.00	0	50.00	1,175
Miscellaneous Steel and Equipment	TN	1	26	26	167.20	4,282	0.00	0	50.00	1,281
H2 and Co2 Piping	TN	1	1	1	269.80	275	0.00	0	50.00	51
Subtotal						210,797		10,796		84,746
Total Account 314						1,330,169		244,823		186,454
FERC Account 315										
Accessory Electrical Equipment										
Foundations & Structures										
Main Generator Leads & Enclosures(aluminum)	TN	1	15	15	456.00	6,840	0.00	0	50.00	750
Manholes and Hanholes - Concrete	CY	1	201	201	20.16	4,052	89.00	17,889	0.00	0
Transformer Foundations - Concrete	CY	1	50	50	50.40	2,520	89.00	4,450	0.00	0
Switchgear Foundations - Concrete	CY	1	30	30	50.40	1,512	89.00	2,670	0.00	0
Load Control Centers Foundations - Concrete	CY	1	30	30	50.40	1,512	89.00	2,670	0.00	0
Aux Power Transformer - 7,500 kva	TN	1	37	37	269.80	9,853	0.00	0	50.00	1,826
Startup Transformer	TN	1	42	42	269.80	11,434	0.00	0	50.00	2,119
Station Service Transformer	TN	2	3	6	269.80	1,565	0.00	0	50.00	290
Transformer Copper	TN	1	33	33	300.00	9,816	0.00	0	710.00	23,231

FT. MYERS

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Storage Battery	TN	1	3	3	269.80	809	0.00	0	50.00	150
Underground Ducts - Concrete	CY	1	782	782	50.40	39,413	89.00	69,598	0.00	0
Conduit - rigid alum	TN	1	21	21	269.80	5,782	0.00	0	540.00	11,572
Underground Conduit	CY	1	4	4	20.16	79	89.00	350	0.00	0
Exposed Conduits and Trays	TN	1	5	5	269.80	1,473	0.00	0	540.00	2,948
Buswork and Copper tubing	TN	1	2	2	269.80	405	0.00	0	710.00	1,065
Motor Control Centers	TN	1	3	3	269.80	809	0.00	0	50.00	150
Power/Control Wiring - 390,000 ft.	TN	1	244	244	456.00	111,150	0.00	0	760.00	185,250
Main Control Board for B-T-G	TN	1	3	3	269.80	809	0.00	0	50.00	150
Switchgear - 4,160v Metalclad	TN	1	20	20	269.80	5,396	0.00	0	50.00	1,000
Switchgear - 480v Metalclad	TN	2	18	36	269.80	9,713	0.00	0	50.00	1,800
Total Account 315						224,943		97,627		232,302
FERC Account 316										
Miscellaneous Power Plant Equipment										
Service Air Compressor	TN	2	8	16	167.20	2,675	0.00	0	50.00	800
Air Compressor - Concrete Foundation	CY	2	7	14	50.40	706	89.00	1,246	0.00	0
Total Account 316						3,381		1,246		800
FERC Account 353										
Substation Equipment										
Miscellaneous Steel	TN	1	2	2	269.80	540	0.00	0	50.00	100
Main Power Transformers - 460,000kva	TN	1	209	209	167.20	34,928	0.00	0	50.00	10,445
Transformer Copper	TN	1	84	84	300.00	25,068	0.00	0	710.00	59,328
Oil Circuit Breaker - 138 kva, 2000 amps	TN	5	9	43	269.80	11,467	0.00	0	50.00	2,125
Main Power Transformers - Foundation	CY	1	114	114	50.40	5,746	89.00	10,146	0.00	0
Oil Circuit Breakers - Foundation	CY	1	47	47	50.40	2,369	89.00	4,183	0.00	0
Auto Transformer - 200,000 KVA	TN	1	146	146	167.20	24,411	0.00	0	50.00	7,300
Conduits - Concrete	CY	1	61	61	20.16	1,230	89.00	5,429	0.00	0
Conduit - Rigid Alum	TN	1	1	1	269.80	270	0.00	0	540.00	540
CableTrays	TN	1	3	3	269.80	817	0.00	0	540.00	1,636
Buswork and Copper Tubing - 2", 4,460 l.f.	TN	1	3	3	269.80	809	0.00	0	710.00	2,130
Control & Power Wiring (79,000 In.ft.)	TN	1	49	49	456.00	22,517	0.00	0	760.00	37,529
Auto Transformer Foundation - concrete	CY	1	40	40	50.40	2,016	89.00	3,560	0.00	0
Total Account 353						132,188		23,318		121,133
TOTAL FT. MYERS UNIT 2						7,246,722		1,605,566		1,040,079
FT. MYERS GAS TURBINES										
FERC Account 341										
Structures and Improvements										
Yard Lighting	TN	1	3	3	269.80	742	0.00	0	50.00	138
Maintenance Facility - Overhead Crane - Steel	TN	1	13	13	167.20	2,090	0.00	0	50.00	625
Maintenance Facility - Structural Steel	TN	1	45	45	167.20	7,524	0.00	0	50.00	2,250
Maintenance Facility - Concrete foundation	CY	1	23	23	50.40	1,174	89.00	2,074	0.00	0
Yard Drainage Pumps	TN	3	2	5	167.20	752	0.00	0	50.00	225
Yard Drainage Piping	TN	1	10	10	228.00	2,200	0.00	0	50.00	483
Service Building - structural Steel	TN	1	10	10	269.80	2,698	0.00	0	50.00	500
Service Building - Concrete Foundation	CY	1	188	188	50.40	9,450	89.00	16,688	0.00	0
Oily Separator - concrete	CY	1	13	13	50.40	643	89.00	1,135	0.00	0
Total Account 341						27,273		19,896		4,220
FERC Account 342										
Fuel Holders, Producers and Accessories										

FT. MYERS

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Compo- nents	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Fuel Storage Tanks - 2 @ 180,000 BBLs	TN	2	540	1,080	n/a	50,000	0.00	0	50.00	54,000
Fuel Storage Tanks Cleaning					n/a	0	n/a	100,000	0.00	0
Fuel Storage Tanks - Soil Remediation					n/a	0	n/a	413,630	0.00	0
Fuel Transfer Pumps - at dock and dock piping	TN	1	4	4	167.20	669	0.00	0	50.00	200
Light Oil Piping - Dock to Tanks	TN	1	108	108	167.20	18,038	0.00	0	50.00	5,394
Fuel Pumping Stations - Concr. Foundation(ea. GT)	CY	12	13	160	50.40	8,064	89.00	14,240	0.00	0
Fuel Pumping Stations - Piping & Pumps(ea. GT)	TN	12	4	42	269.80	11,332	0.00	0	50.00	2,100
Total Account 342						88,102		527,870		61,694
FERC Account 343										
Prime Movers										
Inlet Duct Arrangement	TN	12	60	720	167.20	120,384	0.00	0	50.00	36,000
Control Compartment	TN	12	24	288	167.20	48,154	0.00	0	50.00	14,400
Accessory Compartment	TN	12	42	498	167.20	83,266	0.00	0	50.00	24,900
Radiator Fan Assembly	TN	12	3	40	167.20	6,621	0.00	0	50.00	1,980
Coupling and Guards accessory	TN	12	0	3	167.20	421	0.00	0	50.00	126
Gas Turbine Compartment	TN	12	139	1,669	167.20	278,990	0.00	0	50.00	83,430
Air Turbine Duct Compartment	TN	12	0	4	167.20	742	0.00	0	50.00	222
Aircoustat - Turbine Compartment	TN	12	0	3	167.20	542	0.00	0	50.00	162
Frame, Side inlet	TN	12	3	30	167.20	5,016	0.00	0	50.00	1,500
Enclosure - turbine	TN	12	1	9	167.20	1,505	0.00	0	50.00	450
Exhaust /system Arrangement	TN	12	87	1,038	167.20	173,554	0.00	0	50.00	51,900
Bus duct	TN	12	2	19	167.20	3,210	0.00	0	50.00	960
Protected Aisle	TN	12	4	42	167.20	7,022	0.00	0	50.00	2,100
Unit Structural Steel - each GT	TN	12	60	720	167.20	120,384	0.00	0	50.00	36,000
Unit Concrete foundation - each GT	CY	12	162	1,941	50.40	97,845	89.00	172,781	0.00	0
Insulation - Fiberglass	CY	12	280	3,360	38.00	127,680	11.00	36,960	0.00	0
Total Account 343						1,075,335		209,741		254,130
FERC Account 344										
Generators										
Generator - Electric	TN	12	148	1,773	167.20	296,446	0.00	0	50.00	88,650
Generator - Copper	TN	1	29	29	400.00	11,600	0.00	0	710.00	20,590
Excitation	TN	12	7	84	167.20	14,045	0.00	0	50.00	4,200
Insulation - Fiberglass	CY	12	70	840	38.00	31,920	n/a	0	0.00	0
Total Account 344						354,010		0		113,440
FERC Account 345										
Accessory Electric Equipment										
Structural Supports	TN	1	9	9	167.20	1,505	0.00	0	50.00	450
Transformers - Lighting	TN	1	1	1	269.80	270	0.00	0	50.00	50
Main Transformers - one per two GTs	TN	6	30	180	167.20	30,096	0.00	0	50.00	9,000
Cranking Motor Transformers - one per two GTs	TN	6	4	23	167.20	3,892	0.00	0	50.00	1,164
Aux Transformers - one per two GTs	TN	6	2	14	167.20	2,287	0.00	0	50.00	684
Transformer Copper	TN	1	15	15	300.00	4,458	0.00	0	710.00	10,551
Switchgears	TN	12	7	86	167.20	14,446	0.00	0	50.00	4,320
Total Account 345						56,954		0		26,219
TOTAL FT. MYERS GAS TURBINES						1,601,675		757,507		459,703
TOTAL FT. MYERS COMMON, UNITS 1 & 2 & GAS TURBINES						13,308,590		4,855,758		2,176,070

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MANATEE PLANT

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Manatee Plant

The Manatee Plant is located in Manatee County, approximately six miles east of Parrish, Florida. Approximately 4,000 acres of the 6,784-acre site is utilized as a cooling water reservoir for the units. The site has two identical generating units, designed for oil-fired generation. The oil is transported by underground pipeline from Port Manatee. The two units have a combined maximum generator nameplate rating of 1,727 megawatts. Units No. 1 and 2 went into commercial operation during 1976 and 1977 respectively.

The steam generator for each unit is a Foster Wheeler Corporation outdoor, twin-drum, radiant, reheat, natural circulation type with a water-cooled furnace. Each unit has essentially one complete Westinghouse Electric condensing steam turbine coupled to a hydrogen-cooled electric generator.

Florida Power & Light Company last requested and received approval for dismantlement accruals for the Manatee plant in Docket No. 941343-EI, Order No. PSC-95-1532-FOF-EI, issued on December 12, 1995. The current accruals became effective as of January 1, 1995.

**MANATEE
SUMMARY OF DISMANTLEMENT COSTS**

FERC Account	Description	Removal Cost (A)	Disposal Cost (B)	Salvage Value (C)	Total (D)=(A + B - C)
<u>Manatee Common</u>					
<u>Production Plant</u>					
311	Structures and Improvements	1,974,639	1,843,712	245,549	3,572,803
312	Boiler Plant Equipment	50,449	0	14,759	35,690
314	Turbogenerator Units	0	0	0	0
315	Accessory Electrical Equipment	136,630	83,753	36,439	183,944
316	Miscellaneous Equipment	736	0	204	532
	Subtotal	2,162,454	1,927,465	296,951	3,792,969
<u>Transmission Plant</u>					
353	Substation Equipment	413,045	76,953	128,587	361,410
<u>Other Site Costs:</u>					
	Site Mangement Expenses	763,776			763,776
	Intake & Discharge Backfill	78,279			78,279
	Grading & Seeding	1,955,129			1,955,129
	Subtotal	2,797,184	0	0	2,797,184
<u>Manatee Fuel Oil Storage Facility</u>					
311	Structures and Improvements	2,065,516	1,644,651	473,752	3,236,415
312	Boiler Plant Equipment	0	0	0	0
314	Turbogenerator Units	0	0	0	0
315	Accessory Electrical Equipment	130,324	915	71,691	59,548
316	Miscellaneous Equipment	0	0	0	0
	Subtotal	2,195,839	1,645,566	545,443	3,295,962
	Total Common excluding Unusable M&S Inventory	7,568,523	3,649,984	970,981	10,247,526
	Contingency - 16%	1,210,964	583,997		1,794,961
	Total Manatee Common including Contingency	8,779,487	4,233,981	970,981	12,042,487
	Unusable M&S Inventory	370,555		55,583	314,972
	Total Manatee Common including Unusable M&S Inventory	9,150,041	4,233,981	1,026,564	12,357,458
<u>Manatee Units 1 & 2</u>					
311	Structures and Improvements	4,067,905	1,546,289	133,006	5,481,188
312	Boiler Plant Equipment	6,915,278	2,070,696	1,771,055	7,214,918
314	Turbogenerator Units	974,655	330,259	400,804	904,111
315	Accessory Electrical Equipment	1,438,008	720,044	629,956	1,528,096
316	Miscellaneous Equipment	79,510	0	13,754	65,756
	Subtotal	13,475,357	4,667,288	2,948,575	15,194,070
	Contingency - 16%	2,156,057	746,766		2,902,823
	Total Manatee Units 1 & 2	15,631,414	5,414,054	2,948,575	18,096,893
	Total Dismantlement Costs	24,781,455	9,648,036	3,975,139	30,454,351

**MANATEE
DISMANTLEMENT COST FOR INFLATION PROJECTION**

Description	Labor (A)	Material & Equipment (B)	Burial (C)	Salvage (D)	Total (A) + (B) + (C) - (D)
Manatee Common	5,267,692	3,882,349	4,233,981	1,026,564	12,357,458
Manatee Units 1 & 2	9,378,848	6,252,565	5,414,054	2,948,575	18,096,893
Total	14,646,540	10,134,915	9,648,036	3,975,139	30,454,351

Labor is 60% of Removal Cost from Summary of Dismantlement Costs.
 Material & Equipment is 40% of Removal Cost from Summary of Dismantlement Costs.
 Burial is 100% of Disposal Cost from Summary of Dismantlement Costs.
 Salvage is 100% of Salvage from Summary of Dismantlement Costs.

MANATEE DISMANTLEMENT ASSUMPTIONS

FPL will provide management personnel for the dismantlement effort.

FPL will prepare the request for proposal package and solicit bids for the decommissioning effort.

FPL will provide site security during the dismantlement.

FPL will hire a demolition contractor to perform the actual dismantling work. This contractor will have the salvage rights to all plant equipment and structural material.

The land will be made available for future use.

All dismantling work will be done in accordance with OSHA regulations.

The fuel oil storage tanks will be cleaned and their contents disposed of according to the requirements of current regulations.

The following items will be removed:

- a. All structures, equipment, and concrete pads, pedestals, foundations, etc.;
- b. All underground gas, oil, sewer and water piping and electrical conduits (underground concrete piping to be collapsed);
- c. All hazardous and contaminated materials, e.g., acid filled lead batteries, oil tank residue.

Discussions with FPL's Power Generation Services Department (PGS) indicate that the return of the site to a green field condition entails removal of all structures above the wood pilings and steel-encased concrete pilings. The removal of the pilings would be unfeasible and, therefore, will remain in place.

The turbine pedestals and chimney will be control-blasted.

Scrap will be unprepared, i.e., cut only to the extent required to load the pieces on scrap dealers' trailers. Trucking costs for removal are paid by the scrap dealer and are reflected in the salvage value paid.

The estimate does not reflect land value or its resale.

The productivity factors employed are assumed valid for purposes of this study.

A contingency of 16% has been applied to the total removal and disposal costs. This contingency percentage covers costs associated with delays occurring after dismantlement begins due to such causes as equipment failure and weather delays.

The costs of such overhead items as project management, site security, etc., have been estimated by FPL's PGS Department. These costs are listed on the cost summary pages for each site's dismantlement study.

All materials and equipment are assumed to be either fully salvageable or to be disposed of completely. The availability of powerful cutting shears makes possible the cutting of even the heaviest steel to a size that permits salvage as scrap. Any unusable materials and supplies inventory will be sold as scrap. Estimated balances of such inventory (with an assumption of a 15% salvage value) have been included on the cost summary pages for each site's dismantlement study.

A 30% swell factor is used to compute the disposal cost per cubic yard of concrete. One cubic yard of concrete becomes 1.3 cubic yards of concrete rubble after demolition.

The switchyard and ancillary equipment (FERC account 353) will remain in place with the exception of the main power transformers, oil circuit breakers, superstructures, and foundations associated with the tie-in of plant generated power in the switchyard.

The turbine pedestals and chimneys will be control-blasted.

Transformer and circuit breaker insulating oils are assumed not to contain PCB's. Therefore, the transformers and oil circuit breakers will be salvageable.

It is assumed that dismantlement activity at Manatee will begin five years after end of service. The end of service dates used for this assumption conform to the economic recovery period ending dates used in the Manatee depreciation study filed as of year end 1997.

Manatee is an asbestos free site.

It is assumed that the cooling reservoir at the Manatee site will not be back-filled. The State of Florida has expressed an interest in using the reservoir for water management purposes. Also, some communities have indicated interest in its potential use as a source of water.

The fourteen mile steel pipeline from the fuel oil storage facility to the power plant will be unearthed, cut up and taken as scrap. The one and one-half mile pipeline from Port Manatee to the fuel oil storage facility, though steel, is encased in five inches of concrete and assumed unfeasible for salvage. It will be unearthed, cut up and disposed of at the Manatee County Landfill.

DISMANTLING ACTIVITIES: OIL & GAS & OTHER PRODUCTION PLANTS

- Remove loose equipment, furniture, and spare parts.
- Drain liquids, drum-up, and dispose of drums.
- Remove hazardous materials; i.e., leads (alkaline), acids, solvents, lubricants, oils, chemicals, and gasses.
- Strip all insulation and covering, package and remove to acceptable landfill.
- Collapse circulating water lines and backfill trenches.
- Remove main steam, hot and cold piping, downcomers, valves, and supports, pumps, motors, generator auxiliary equipment, feedwater heaters, soot blowers, and condensers.
- Remove intake and discharge structures, equipment pumps, piping and valves.
- Remove systems that must be completed prior to the start of the boiler removal including lube oil pumps, all piping, instrument and electrical systems.
- Remove forced drafts and induced draft ductwork, air heaters and fans.
- Remove hoppers, burners, upper and lower headers, manways, and waterwalls.
- Remove heavy steel structures and above ground steel – precut key members, lower and cut at ground level.
- Disassemble crane, boiler feed pumps, and turbine generator.
- Separate scrap metals, and remove to scrap yard.
- Remove and dispose of miscellaneous rubble.
- Remove turbine pedestal, foundation, and heavy concrete structures and building, stack foundations, equipment foundations, substructures, support buildings and stacks. Remove to landfill.
- Cut off piles and remove pile caps. Remove concrete encased duct banks and underground piping.
- Remove septic tank and backfill.
- Remove underground storage tanks.
- Test and remove contaminated soil/bases -- all areas.
- Install environmental monitoring equipment such as wells.
- Remove or improve remaining site facilities such as buildings, fences, parking areas in accordance with local code and regulations.
- Install/modify existing site storm water runoff system.

DISMANTLING ACTIVITIES: OIL & GAS AND OTHER PRODUCTION PLANTS

(Continued)

- Remove switchyard electrical equipment, structures, and foundations. Modify services to remaining occupied structures as required.
- Remove gas supply metering site, valve stations, underground distribution system.
- Backfill, site grading, seeding, mulching.
- Remove solid and liquid wastes from waste treatment processing areas – landfilled material, precipitated material in ponds and tanks, contaminated resins and reactants.
- Remove marine facilities such as fuel unloading docks, equipment, bridges, and dams.
- Cut and remove fuel oil tanks, piping, valves, and supports.
- Remove top soil/gravel, backfill, and remove barrier wall foundation.

DEVELOPMENT OF COST FACTORS

Cost factors have been developed to compute the net salvage value of the demolition of the Manatee Plant. The net salvage value of the demolition is the net of: the removal and disposal cost and the salvage value of equipment and steel not disposed of. These factors provide a unit cost or value for removal, disposal and salvage of a given unit of measure of the component materials of which a power plant is constructed. The assumption is that the cost or value per unit of a given component can be multiplied by the quantity of that component in the plant to calculate a total cost or value for removal, disposal, or salvage of that component.

REMOVAL COST FACTORS

The removal cost factors developed for this study have two elements: a burdened labor rate and productivity factor. The burdened labor rate multiplied by the productivity factor yields the removal cost factor. The labor rates used in this study were developed by FPL's Power Generation Services Department (PGS). The crew rate per man-hour is for a crew consisting of six journeymen laborers, one laborer foreman and one heavy equipment operator - a typical crew for demolition work. The rate includes the cost per man-hour of a Trojan 3500Z front end loader with a four yard bucket, and an American 9310, two hundred twenty-five ton crane with a two hundred foot boom. The productivity factors employed, e.g., the number of man-hours required to remove a given unit of measure of concrete, were developed by an engineering consulting firm. These factors are assumed valid for purposes of this study.

Labor Rate

Labor rates are based on Means Union wages for 1998. The rates are adjusted to reflect non-union crews and factored to the geographical location of the site. Wage rates are based on a 40 hour week.

Labor	\$24.47	X	6	=	\$146.82
Foreman	\$31.43	X	1	=	\$31.43
Heavy Equipment Operator	\$29.30	X	1	=	\$29.30
Total Cost per hour of 8 man crew					<u>\$207.55</u>

Cost per man hour $207.55 / 8 = \underline{\underline{\$25.94}}$

Equipment Rate

The equipment rate is based on the following equipment:

Excavator	14,925.30
Front End Loader	5,095.73
Cutting Equipment	200.00
Total per month	<u>\$20,221.03</u>

$20,221.03 / 176 \text{ hours per month} = 114.89$

Cost per man hour	$114.89 / 8 =$	\$14.36
Plus: amount for small tools		0.80
Total Cost per man hour		<u><u>\$15.16</u></u>

MANATEE DISMANTLEMENT STUDY

Equipment & Labor Summary

Labor	\$25.94
Equipment	15.16
Total	<u>\$41.11</u>
Rounded	<u>\$41.00</u>
For Concrete demolition add \$4.00 per hour additional equipment charge.	<u>\$45.00</u>

The Removal Cost Factor is the product of the productivity factor for removal of a particular component multiplied by the total burdened hourly labor rate. The removal cost factors for all materials to be removed from FPL's sites are as follows:

<u>Components</u>	<u>Hourly Rate</u>	<u>Productivity Factor</u>	<u>Removal Factor</u>
Extra Heavy Steel (1)	\$41.00	2.50 MH / Ton	\$102.50 / Ton
Heavy Steel (2)	\$41.00	3.30 MH / Ton	\$135.30 / Ton
General Steel	\$41.00	4.40 MH / Ton	\$180.40 / Ton
Light Steel	\$41.00	7.10 MH / Ton	\$291.10 / Ton
Concrete	\$45.00	0.48 MH / CY	\$21.60 / CY
Reinforced Concrete	\$45.00	1.20 MH / CY	\$54.00 / CY
Copper-Elect. Cable & Generator Leads & Copper - Generator	\$41.00	12.00 MH / Ton	\$492.00 / Ton
Copper - Transformer			\$400.00 / Ton
Copper - Transformer			\$300.00 / Ton
General Insulation	\$41.00	1.00 MH / CY	\$41.00 / CY
Inground Pipe-Metal(3)	\$41.00	6.00 MH / Ton	\$246.00 / Ton
Concrete Pipe (collapsed)	\$45.00	4.60 MH / Ton	\$207.00 / Ton

(1) Includes turbine generator.

(2) Includes parts of the steam generator, pipe larger than 8 inches.

(3) Includes cost to backfill the trenches.

DISPOSAL COST FACTORS

Three cost factors were developed to compute the cost of disposal of non-hazardous wastes at the Manatee County Landfill. Concrete and calcium silicated insulation are all non-hazardous wastes. The tipping fee of \$23/ton was obtained from the Manatee County Landfill. The dumpster charges are: \$147 per haul for a 20 cy dumpster, \$220 per haul for a 30 cy dumpster, was provided by Waste Management Services.

Cost factors were also developed to compute the cost of removal and disposal of oil tanks, including the cost of related soil remediation. Such costs are computed for each tank in FPL's system, and are located appropriately in the detailed spreadsheet.

MANATEE DISMANTLEMENT STUDY

Concrete

One cubic yard of concrete in place weighs 3,950 pounds. One cubic yard becomes 1.3 cubic yards after demolition. Each load will contain 15.38 cubic yards (20 cu. yds./1.3) of in place concrete. 15.38 cubic yards weighs 61,000 pounds or 30.50 tons.

Truck Cost	\$147.00 / haul	1 haul	=	147.00
Tipping Fees	\$23.00 / ton X	30.5 tons	=	701.50
Total Cost per round Trip				<u>848.50</u>

Cost per Cubic Yard	\$848.50 / 15.38 cubic yards =			\$55.17
Plus 10% contractor profit				5.52
Total Cost per Cubic Yard				<u>\$60.69</u>

Rounded Cost per Cubic Yard				<u>\$61.00</u>
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Insulation - Calcium Silicate (Non-Hazardous)

A trailer with a 30 cubic yard capacity is used for insulation because of its lighter weight. For purposes of this computation the dumpster is assumed to be 90% full (although the tipping fee is based on the assumption of 100% full truck - i.e., the weight to volume conversion uses 30 cubic yards - the full volume of the dumpster). A cubic yard of calcium silicate insulation weighs 121.5 pounds or .060750 tons. 30 cubic yards times .060750 tons/cubic yard = 1.82 tons.

Truck Cost	\$220.00 / haul	1 haul	=	220.00
Tipping Fees	\$23.00 / ton	1.82 tons	=	41.86
Total Cost per round Trip				<u>261.86</u>

Cost per Cubic Yard	\$261.86 / 27 cubic yards =			\$9.70
Plus 10% contractor profit				0.97
Total Cost per Cubic Yard				<u>\$10.67</u>

Rounded Cost per Cubic Yard				<u>\$11.00</u>
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MANATEE DISMANTLEMENT STUDY

SALVAGE VALUE FACTORS

The salvage value factors, presented in dollars per ton, were provided by FPL's Investment Recovery Department. The list covers all salvageable materials recovered from FPL sites.

Iron & Steel	\$50 / ton
Stainless Steel	\$300 / ton
Aluminum (Sheet Metal)	\$540 / ton
Wire & Cable:	
- Insulated Copper	\$760 / ton
- Insulated Aluminum	\$600 / ton
Copper	\$710 / ton
Nickel Alloys	
- 70/30 Cupro-Nickel	\$1,490 / ton
- 80/20 Cupro-Nickel	\$1,250 / ton
- Monel	\$2,340 / ton
Admiralty Brass	\$540 / ton
Aluminum Brass	\$140 / ton
Titanium	\$1,320 / ton

OTHER SITE COSTS

Site Management Expenses

Site management expenses refer to FPL's management costs and contractors' expenses associated with the dismantlement project. The cost factors provided by FPL's Power Generation Services Department (PGS) are: \$13,901 per month for FPL's expenses, both office and site, and \$17,923 per month for site indirect costs (contractors' expenses). These expenses are assumed to be incurred over the 24 months dismantlement period used for the Manatee plant. FPL's management costs include administration, engineering, permit costs and various other costs. Contractor's expenses include field management, security, etc..

Site Management Expenses per month	\$31,824
Number of months	24.00
Total Site Mangement Expenses	<u>\$763,776</u>

Intake & Discharge Backfill

FPL's PGS Department developed this cost factor on the basis of a typical such structure for FPL's production plants. The assumption is that a volume of 1,600 cubic yards for the intake and 1,120 cubic yards for the discharge will need to be filled. The cost for the intake is \$28,021, the cost to back-fill the discharge is \$22,237. Total back-fill cost is computed as follows:

	<u>Cost/Structure</u>	<u>Quantity</u>	<u>Totals</u>
Intake	\$28,021	2	\$56,042 *
Discharge	\$22,237	1	\$22,237
			<u>\$78,279</u>

* Manatee's Intake Structure is larger than average so for costing purposes, it is treated as 2.

MANATEE DISMANTLEMENT STUDY

Grading and Seeding

This cost refers to the restoration of the dismantled area to a green field area. The land is filled with sand, spread with topsoil and then seeded. The cost factor provided by PGS is \$40,229 per acre. The acreage was determined for each site by reviewing engineering drawings to determine the areas requiring this effort. Assumptions underlying this cost factor include 2,000 cubic yards per acre to be backfilled and 968 cubic yards per acre of topsoil to be spread and seeded.

Manatee Acreage to be graded and seeded	48.60
Cost Factor	<u>\$40,229</u>
Total Grading and Seeding Expense	<u><u>\$1,955,129</u></u>

MANATEE DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost Per Item	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
MANATEE COMMON										
FERC Account 311										
Improvements to Site										
Structures										
Roads (asphalt)	CY	1	2,490.00	2,490.00	21.60	53,784	61.00	151,890	0.00	0
Walks, Yard Paving, Parking (asphalt/concrete)	CY	1	1,323.00	1,323.00	21.60	28,577	61.00	80,703	0.00	0
Yard Lighting - Copper Wiring	TN	1	3.42	3.42	492.00	1,683	0.00	0	760.00	2,600
Yard Lighting - Conduit (aluminum)	TN	1	24.06	24.06	246.00	5,920	0.00	0	600.00	14,438
Railroad Rails - Steel	TN	1	549.83	549.83	291.10	160,056	0.00	0	50.00	27,492
Railroad Cross-ties	TN	1	824.78	824.78	21.60	17,815	61.00	50,312	0.00	0
Subtotal						267,835		282,905		44,530
Domestic Water Supply										
Piping, Vlvs Under 4" - Steel	TN	1	41.88	41.88	291.10	12,192	0.00	0	50.00	2,094
Subtotal						12,192		0		2,094
Storm & Sanitary Sewer System										
Oil Separator Tank - 4000 gal (fiberglass)	TN	2	4.20	8.39	291.10	2,442	0.00	0	50.00	420
Oil Separator Pump/ Motor	TN	2	1.00	2.00	291.10	582	0.00	0	50.00	100
Water Collecting Pond - Reinforced Concrete	CY	1	594.00	594.00	54.00	32,076	61.00	36,234	0.00	0
Sewage Treatment - Misc. Steel & Piping	TN	1	2.50	2.50	180.40	451	0.00	0	50.00	125
Sewage Treatment - Disposal Tanks (total)	TN	1	6.85	6.85	180.40	1,236	0.00	0	50.00	343
Septic Tank - 750 gal (concrete)	TN	1	1.32	1.32	207.00	273	0.00	0	0.00	0
Catch Basins & Manholes - Reinforced Concrete	CY	1	692.00	692.00	54.00	37,368	61.00	42,212	0.00	0
Subtotal						74,429		78,446		987
Yard Fire Protection System										
Motor-driven Fire Pump/ Motor	TN	1	3.55	3.55	180.40	640	0.00	0	50.00	178
Fire Pump/ Motor Foundation - Reinf Conc	CY	1	31.00	31.00	54.00	1,674	61.00	1,891	0.00	0
Engine-driven Fire Pump/ Motor	TN	1	1.21	1.21	180.40	218	0.00	0	50.00	61
Subtotal						2,533		1,891		238
Circulating and Service Water System										
Intake Structure										
Structures/ Foundations - Reinforced Concrete	CY	1	9,258.00	9,258.00	54.00	499,932	61.00	564,738	0.00	0
Structural Steel	TN	1	19.00	19.00	135.30	2,571	0.00	0	50.00	950
Handrailing, Grating, Checkerplate - Steel	TN	1	1.75	1.75	180.40	316	0.00	0	50.00	88
Cofferdam - Steel	TN	1	156.67	156.67	180.40	28,263	0.00	0	50.00	7,834
40-Ton Gantry Crane	TN	1	91.00	91.00	135.30	12,312	0.00	0	50.00	4,550
40-Ton Gantry Crane Track Rail - Steel	TN	1	4.65	4.65	291.10	1,354	0.00	0	50.00	233
Stop Logs - Reinforced Concrete	CY	1	47.11	47.11	54.00	2,544	61.00	2,874	0.00	0
Conduit - Aluminum	TN	1	1.49	1.49	291.10	435	0.00	0	600.00	896
Subtotal						547,726		567,612		14,549
Service Water System										
Foundation/ Slab - Reinforced Concrete	CY	1	879.00	879.00	54.00	47,466	61.00	53,619	0.00	0
Structural Steel	TN	1	33.00	33.00	135.30	4,465	0.00	0	50.00	1,850
Well Water Pump w/ motor	TN	3	2.27	6.81	180.40	1,229	0.00	0	50.00	341
Deminerlizer w/ 7.5 hp motor	TN	2	1.18	2.36	180.40	426	0.00	0	50.00	118
Deminerlizer w/ 15 hp motor	TN	2	1.68	3.36	180.40	606	0.00	0	50.00	168
Conveyer System w/ 2 hp motor	TN	1	2.50	2.50	180.40	451	0.00	0	50.00	125
Coagulator Tank w/ motor	TN	1	19.90	19.90	135.30	2,692	0.00	0	50.00	995

MANATEE DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost Per Item	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Lime Tank & Mixer - Steel	TN	1	1.22	1.22	180.40	220	0.00	0	50.00	61
Alum Tank & Mixer - Steel	TN	1	1.62	1.62	180.40	292	0.00	0	50.00	81
Clearwell Tank - Steel	TN	1	25.00	25.00	135.30	3,383	0.00	0	50.00	1,250
Acid Feed Tank - Steel	TN	1	7.50	7.50	180.40	1,353	0.00	0	50.00	375
Sand Filter Tank - Steel	TN	4	12.60	50.40	135.30	6,819	0.00	0	50.00	2,520
Carbon Filter Tank - Steel	TN	1	1.79	1.79	180.40	322	0.00	0	50.00	89
Conduit - Aluminum	TN	1	1.75	1.75	291.10	508	0.00	0	600.00	1,048
Subtotal						70,232		53,619		8,821
Raw Water Make-up System										
Raw Water Storage Tank - 500,000 gal	TN	1	55.00	55.00	135.30	7,442	0.00	0	50.00	2,750
Foundation - Reinforced Concrete	CY	1	203.00	203.00	54.00	10,962	61.00	12,383	0.00	0
Piping, Vlvs 4" to 8" - Steel	TN	1	3.67	3.67	291.10	1,067	0.00	0	50.00	183
Piping, Vlvs - Fiberglass	TN	1	33.94	33.94	246.00	8,350	0.00	0	0.00	0
Subtotal						27,821		12,383		2,933
Open Cooling Water System										
36" Piping/ Misc. Vlvs - Iron	TN	1	4.82	4.82	246.00	1,185	0.00	0	50.00	241
Subtotal						1,185		0		241
Other Service Water System										
Service Water Pump w/ 125 hp motor	TN	2	1.12	2.25	180.40	405	0.00	0	50.00	112
Treated Water Storage Tank - 500,000 gal	TN	1	55.00	55.00	135.30	7,442	0.00	0	50.00	2,750
Potable Water Storage Tank - 14,000 gal	TN	1	5.50	5.50	180.40	992	0.00	0	50.00	275
Water Treatment Area Foundations - Reinf Conc	CY	1	859.00	859.00	54.00	46,386	61.00	52,399	0.00	0
Piping, Vlvs Under 4" - Steel	TN	1	62.26	62.26	291.10	18,123	0.00	0	50.00	3,113
Piping, Vlvs 4" to 8" - Steel	TN	1	58.14	58.14	180.40	10,489	0.00	0	50.00	2,907
Subtotal						83,837		52,399		9,157
Neutralization Basin										
Acid Retention Basin - Reinforced Concrete	CY	1	584.00	584.00	54.00	31,536	61.00	35,624	0.00	0
Recovered Service Water Pump w/ motor	TN	2	2.25	4.50	180.40	812	0.00	0	50.00	225
Recovered Service Water Basin - Reinf Conc	CY	1	151.00	151.00	54.00	8,154	61.00	9,211	0.00	0
Waste Water Treatment Control Panel	TN	1	1.55	1.55	291.10	451	0.00	0	50.00	78
Piping, Vlvs - Fiberglass	TN	1	16.26	16.26	291.10	4,732	0.00	0	0.00	0
Subtotal						45,685		44,835		303
Discharge Structure										
Circ Water Discharge Sluice Gate - Iron	TN	2	5.50	11.00	180.40	1,984	0.00	0	50.00	550
Structure - Reinforced Concrete	CY	1	2,057.00	2,057.00	54.00	111,078	61.00	125,477	0.00	0
Subtotal						113,062		125,477		550
Station Structures										
Calibration Shop - Concrete Block 2,000 sf	CY	1	31.02	31.02	21.60	670	61.00	1,892	0.00	0
Acid Lift Station Pump w/ 100 hp motor	TN	2	4.80	9.60	180.40	1,731	0.00	0	50.00	480
Acid Lift Station Pump w/ 100 hp motor	TN	2	4.59	9.18	180.40	1,655	0.00	0	50.00	459
90-Ton Gantry Crane w/ 30-Ton Auxiliary Hoist	TN	1	178.90	178.90	135.30	24,205	0.00	0	50.00	8,945
90-Ton Gantry Crane Track Rail - Steel	TN	1	20.00	20.00	291.10	5,822	0.00	0	50.00	1,000
Control Bldg Foundation - Reinforced Concrete	CY	1	398.00	398.00	54.00	21,492	61.00	24,278	0.00	0
Control Bldg - Aluminum Siding 20,364 sf	TN	1	15.27	15.27	291.10	4,445	0.00	0	540.00	8,246
Control Bldg - Concrete Block 6,820 sf	CY	1	105.77	105.77	21.60	2,285	61.00	6,452	0.00	0
Control Bldg - Aluminum Sheet Metal 8,100 sf	TN	1	12.15	12.15	291.10	3,537	0.00	0	540.00	6,561

MANATEE DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost Per Item	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Control Bldg - Built-up Roofing 2,850 sf	TN	1	8.55	8.55	21.60	185	61.00	522	0.00	0
Control Bldg Phone Eqpmnt Room - Struc Steel	TN	1	7.60	7.60	135.30	1,028	0.00	0	50.00	380
Personnel Elevator - 2,000 lb capacity	TN	1	6.36	6.36	180.40	1,148	0.00	0	50.00	318
Freight Elevator - 10,000 lb capacity	TN	1	9.00	9.00	180.40	1,624	0.00	0	50.00	450
Freight Elevator - Structural Steel	TN	1	19.65	19.65	135.30	2,659	0.00	0	50.00	983
Subtotal						72,485		33,144		27,821
Fuel and Ash Structures										
Ash Disposal Basin - Reinforced Concrete	CY	1	2,852.00	2,852.00	54.00	154,008	61.00	173,972	0.00	0
Ash Disposal Basin - PH Analyzer	TN	1	2.00	2.00	291.10	582	0.00	0	50.00	100
Ash Disposal Basin Guard Rails 750 lf	TN	1	1.88	1.88	180.40	339	0.00	0	50.00	94
Fuel Oil Transfer Pump w/ 100 hp motor	TN	3	3.20	9.60	180.40	1,732	0.00	0	50.00	480
F/O Transfer Pump Basket Strainer - Iron	TN	3	1.16	3.47	180.40	626	0.00	0	50.00	174
Fuel Oil Transfer Heater - Steel	TN	4	9.23	36.92	180.40	6,660	0.00	0	50.00	1,846
Day/ Light Oil Tank Fndtns/ Dike - Reinf Conc	CY	1	1,559.00	1,559.00	54.00	84,186	61.00	95,099	0.00	0
Day/ Light Oil Tank Fire Wall - Reinf Conc	CY	1	477.00	477.00	54.00	25,758	61.00	29,097	0.00	0
Piping, Vlvs Under 4" - Steel	TN	1	19.96	19.96	291.10	5,809	0.00	0	50.00	998
Piping, Vlvs 4" to 8" - Steel	TN	1	4.84	4.84	180.40	874	0.00	0	50.00	242
Piping, Vlvs Over 8" - Steel	TN	1	217.10	217.10	135.30	29,373	0.00	0	50.00	10,855
Piping Supports - Reinforced Concrete	CY	1	966.00	966.00	54.00	52,164	61.00	58,926	0.00	0
Pipe Sleeves & Anchor Plates - Steel	TN	1	10.00	10.00	291.10	2,911	0.00	0	50.00	500
Piping 4" to 8" - Iron	TN	1	6.75	6.75	246.00	1,661	0.00	0	50.00	338
Piping Over 8" - Iron	TN	1	1.45	1.45	246.00	357	0.00	0	50.00	73
Insulation	CY	1	3.96	3.96	41.00	162	11.00	44	0.00	0
Subtotal						367,203		357,138		15,699
Service Building										
Spread Footings - Reinforced Concrete	CY	1	135.00	135.00	54.00	7,290	61.00	8,235	0.00	0
Structural Steel	TN	1	30.00	30.00	135.30	4,059	0.00	0	50.00	1,500
Walls - Concrete Block 31,877 sf	CY	1	494.39	494.39	21.60	10,679	61.00	30,158	0.00	0
Columns & Tie Beams - Reinforced Concrete	CY	1	333.00	333.00	54.00	17,982	61.00	20,313	0.00	0
Slabs & Landings - Reinforced Concrete	CY	1	338.00	338.00	54.00	18,252	61.00	20,618	0.00	0
Interior Partitions - Conc Block 8,875 sf	CY	1	137.64	137.64	21.60	2,973	61.00	8,396	0.00	0
Pre-cast Floor Slabs - Concrete	CY	1	370.26	370.26	21.60	7,998	61.00	22,586	0.00	0
Pre-cast Roof Slabs - Concrete	CY	1	422.82	422.82	21.60	9,133	61.00	25,792	0.00	0
Built-up Roofing	TN	1	72.37	72.37	21.60	1,563	61.00	4,415	0.00	0
Air Conditioning Unit - 240,000 BTU	TN	1	2.25	2.25	180.40	406	0.00	0	50.00	113
Air Conditioning Unit - 167,000 BTU	TN	1	2.20	2.20	180.40	397	0.00	0	50.00	110
Air Conditioning Unit - 142,000 BTU	TN	1	1.00	1.00	291.10	291	0.00	0	50.00	50
5-Ton Machine Shop Bridge Crane	TN	1	2.37	2.37	180.40	428	0.00	0	50.00	119
Conduit - Aluminum	TN	1	1.78	1.78	291.10	519	0.00	0	600.00	1,069
Piping, Vlvs Under 4" - Steel	TN	1	12.92	12.92	291.10	3,761	0.00	0	50.00	846
Piping, Vlvs 4" to 8" - Steel	TN	1	2.50	2.50	180.40	450	0.00	0	50.00	125
Piping 4" to 8" - Iron	TN	1	9.80	9.80	246.00	2,410	0.00	0	50.00	490
Subtotal						88,590		140,512		4,221
Other Buildings										
Foundations - Reinforced Concrete	CY	1	353.00	353.00	54.00	19,062	61.00	21,533	0.00	0
Walls - Concrete Block 8,162 sf	CY	1	126.59	126.59	21.60	2,734	61.00	7,722	0.00	0
Pre-cast Roofs - Concrete	CY	1	60.48	60.48	21.60	1,306	61.00	3,689	0.00	0
Built-up Roofing	TN	1	11.30	11.30	21.60	244	61.00	689	0.00	0
Roof Supports - Steel (Intake Chlorotr Bldg)	TN	1	1.86	1.86	180.40	335	0.00	0	50.00	93

MANATEE DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost Per Item	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Subtotal						23,682		33,633		93
Warehouses										
Foundations - Reinforced Concrete	CY	1	979.00	979.00	54.00	52,866	61.00	59,719	0.00	0
Structural Steel	TN	1	574.00	574.00	135.30	77,662	0.00	0	50.00	28,700
Siding/ Roofing - Aluminum	TN	1	154.69	154.69	291.10	45,030	0.00	0	540.00	83,533
Fencing - Aluminum	TN	1	2.00	2.00	291.10	582	0.00	0	540.00	1,080
Subtotal						176,141		59,719		113,313
Total Account 311						1,974,639		1,843,712		245,549
FERC Account 312										
Boiler Plant Service Equipment										
Feed Water System										
Strong Acid Cation Exchanger - Steel	TN	2	35.25	70.50	135.30	9,539	0.00	0	50.00	3,525
Weak Base Anion Exchanger - Steel	TN	2	19.50	39.00	135.30	5,277	0.00	0	50.00	1,950
Strong Base Anion Exchanger - Steel	TN	3	10.90	32.70	135.30	4,424	0.00	0	50.00	1,635
Mixed Bed Ion Exchanger - Steel	TN	2	11.68	23.35	135.30	3,159	0.00	0	50.00	1,168
Air Compressor - 308 cfm w/ 40 hp motor	TN	1	1.00	1.00	291.10	291	0.00	0	50.00	50
Acid Storage Tank - Steel	TN	1	48.50	48.50	135.30	6,562	0.00	0	50.00	2,425
Caustic Storage Tank -Steel	TN	1	7.50	7.50	180.40	1,353	0.00	0	50.00	375
Brine Measuring Tank - Steel	TN	1	3.66	3.66	180.40	660	0.00	0	50.00	183
Brine Recirculation Control Panel - Steel	TN	1	5.16	5.16	291.10	1,503	0.00	0	50.00	258
Subtotal						32,768		0		11,569
Boiler Wash System										
Caustic Wash Service Tank/ Agitator - Steel	TN	1	3.52	3.52	180.40	634	0.00	0	50.00	176
Caustic Wash Mixing Tank/ Agitator - Steel	TN	1	2.65	2.65	180.40	478	0.00	0	50.00	133
Lime Slurry Mixing Tank/ Agitator - Steel	TN	1	1.93	1.93	180.40	348	0.00	0	50.00	96
Piping, Vlvs Under 4" - Steel	TN	1	55.72	55.72	291.10	16,221	0.00	0	50.00	2,786
Subtotal						17,681		0		3,191
Total Account 312						50,449		0		14,759
FERC Account 315										
Accessory Electrical Equipment										
Power Conversion Equipment										
Start-up Transformer (6.9kva)	TN	1	59.30	59.30	291.10	17,262	0.00	0	50.00	2,965
Start-up Switchgear (6.9kva)	TN	1	13.80	13.80	291.10	4,017	0.00	0	50.00	690
6,900V Non-segregated Phase Bus	TN	1	6.78	6.78	291.10	1,974	0.00	0	50.00	339
Start-up Transformer Foundation - Reinf Conc	CY	1	184.00	184.00	54.00	9,936	61.00	11,224	0.00	0
Station Svc Trnsfrmr - 2,500 kva (oil-cooled)	TN	1	7.80	7.80	291.10	2,271	0.00	0	50.00	390
Manholes & Handholes - Reinforced Concrete	CY	1	499.00	499.00	54.00	26,946	61.00	30,439	0.00	0
480V Motor Control Center	TN	1	3.50	3.50	291.10	1,019	0.00	0	50.00	175
2400V Switchgear	TN	1	7.57	7.57	291.10	2,202	0.00	0	50.00	378
Neutral Grounding Transformer - Steel	TN	2	4.00	8.00	291.10	2,329	0.00	0	50.00	400
Transformer Copper	TN	1	28.44	28.44	300.00	8,532	0.00	0	710.00	20,192
Emergency Diesel Generator & Accessories	TN	1	12.12	12.12	180.40	2,187	0.00	0	50.00	606
480V Emergency Diesel Load Center/ Switchgear	TN	1	3.70	3.70	291.10	1,077	0.00	0	50.00	185
Underground Conduit, Ducts - Reinf Concrete	CY	1	690.00	690.00	54.00	37,260	61.00	42,090	0.00	0
Conduit (underground) - Steel	TN	1	47.70	47.70	246.00	11,734	0.00	0	50.00	2,385
Conduit (exposed) - Steel	TN	1	11.12	11.12	291.10	3,238	0.00	0	50.00	556

MANATEE DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost Per Item	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Copper Wiring - Insulated	TN	1	9.44	9.44	492.00	4,646	0.00	0	760.00	7,177
Total Account 315						136,630		83,753		36,439
FERC Account 316										
Miscellaneous Power Plant Equipment										
Station Air Compressor (880 CFM) w/ motor	TN	1	4.08	4.08	180.40	736	0.00	0	50.00	204
Total Account 316						736		0		204
TOTAL MANATEE COMMON						2,162,454		1,927,465		296,951
MANATEE UNITS 1 & 2										
FERC Account 311										
Improvements to Site										
Yard Piping Bridge										
Structural Steel	TN	1	164.00	164.00	135.30	22,189	0.00	0	50.00	8,200
Subtotal						22,189		0		8,200
Storm & Sanitary Sewer System										
Piping, Vlvs 4" to 8" - Steel	TN	1	13.56	13.56	180.40	2,447	0.00	0	50.00	678
Piping, Vlvs 4" to 8" - Iron	TN	1	95.71	95.71	246.00	23,545	0.00	0	50.00	4,786
Piping, Vlvs Over 8" - Iron	TN	1	71.64	71.64	246.00	17,623	0.00	0	50.00	3,582
Fiberglass Piping, Vlvs	TN	1	12.18	12.18	246.00	2,996	0.00	0	50.00	609
Piping Over 8" - Reinforced Concrete	TN	1	300.08	300.08	207.00	62,116	0.00	0	0.00	0
Subtotal						108,728		0		9,655
Yard Fire Protection System										
Piping, Vlvs 4" & Under - Steel	TN	1	5.02	5.02	291.10	1,460	0.00	0	50.00	251
Piping, Vlvs 4" to 8" - Steel	TN	1	6.00	6.00	180.40	1,083	0.00	0	50.00	300
Piping 4" to 8" - Iron	TN	1	2.16	2.16	246.00	531	0.00	0	50.00	108
Piping Over 8" - Iron	TN	1	132.39	132.39	246.00	32,569	0.00	0	50.00	6,620
Subtotal						35,643		0		7,279
Circulating and Service Water System										
Open Cooling Water System										
Intake Cooling Water Pump w/ motor	TN	2	6.90	27.60	180.40	4,979	0.00	0	50.00	1,380
Pump Basket Strainer (30") - Steel	TN	2	3.99	15.95	180.40	2,877	0.00	0	50.00	798
36" Piping - Reinforced Concrete	TN	1	1,034.91	2,069.82	207.00	428,452	0.00	0	0.00	0
Piping, Vlvs Under 4" - Steel	TN	1	58.27	116.54	291.10	33,926	0.00	0	50.00	5,827
Piping, Vlvs 4" to 8" - Steel	TN	1	35.23	70.45	180.40	12,709	0.00	0	50.00	3,523
Subtotal						482,944		0		11,527
Intake Structure Equipment & Piping										
Traveling Water Screen - Steel	TN	4	18.03	144.25	135.30	19,517	0.00	0	50.00	7,213
Screen Wash Pump w/ motor	TN	4	2.13	17.00	180.40	3,067	0.00	0	50.00	850
Trash Rake - Aluminum	TN	4	2.00	16.00	291.10	4,658	0.00	0	540.00	8,640
5-ton Electric Hoist	TN	1	1.50	3.00	180.40	541	0.00	0	50.00	150
Intake Piping (66") - Reinforced Concrete	TN	1	5,474.10	5,474.10	207.00	1,133,139	0.00	0	0.00	0
Subtotal						1,160,922		0		16,853
Discharge Piping										
Discharge Piping (66") - Reinforced Concrete	TN	1	615.26	615.26	207.00	127,358	0.00	0	0.00	0
Discharge Piping (114") - Reinforced Concrete	TN	1	2,764.80	2,764.80	207.00	572,314	0.00	0	0.00	0

MANATEE DISMANTLEMENT STUDY

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Subtotal						699,672		0		0
Station Structures										
Spread Footings - Reinforced Concrete	CY	1	11,966.00	11,966.00	54.00	646,164	61.00	729,926	0.00	0
Footings, Piers & Grade Beams - Reinf Conc	CY	1	6,393.00	6,393.00	54.00	345,222	61.00	389,973	0.00	0
Ground Floor Slabs - Reinforced Concrete	CY	1	4,387.00	4,387.00	54.00	236,898	61.00	267,607	0.00	0
Turbine Generator Building - Structural Steel	TN	1	892.00	892.00	135.30	120,688	0.00	0	50.00	44,600
T-G Bldg - Stairways & Handrailing 4,377 lf	TN	1	60.16	60.16	180.40	10,853	0.00	0	50.00	3,008
Elevated Slabs - Reinforced Concrete	CY	1	1,733.00	1,733.00	54.00	93,582	61.00	105,713	0.00	0
Grating & Floor Plating - Steel 7,146 sf	TN	1	39.03	78.06	180.40	14,082	0.00	0	50.00	3,903
Lift Station Structure/ Fndation - Reinf Conc	CY	1	870.00	870.00	54.00	46,980	61.00	53,070	0.00	0
Lift Station Pump w/ 40 hp motor	TN	2	1.30	5.20	180.40	938	0.00	0	50.00	260
Lift Station Pump w/ 125 hp motor	TN	2	2.42	9.68	180.40	1,746	0.00	0	50.00	484
Conduit - Aluminum	TN	1	31.84	31.84	291.10	9,269	0.00	0	600.00	19,105
Insulated Copper Wiring	TN	1	2.90	2.90	492.00	1,428	0.00	0	760.00	2,205
Piping, Vlvs Under 4" - Steel	TN	1	2.98	2.98	291.10	866	0.00	0	50.00	149
Piping, Vlvs 4" to 8" - Steel	TN	1	30.87	30.87	180.40	5,569	0.00	0	50.00	1,543
Piping, Vlvs Over 8" - Steel	TN	1	3.90	3.90	135.30	527	0.00	0	50.00	195
Piping, Vlvs Under 4" - Iron	TN	1	1.34	1.34	246.00	330	0.00	0	50.00	67
Piping, Vlvs 4" to 8" - Iron	TN	1	44.50	44.50	246.00	10,947	0.00	0	50.00	2,225
Piping, Vlvs Over 8" - Iron	TN	1	34.98	34.98	246.00	8,604	0.00	0	50.00	1,749
15" Piping - Reinforced Concrete	TN	1	15.05	15.05	207.00	3,115	0.00	0	0.00	0
Subtotal						1,557,808		1,546,289		79,493
Total Account 311						4,067,905		1,546,289		133,006
FERC Account 312										
Boiler Plant Service Equipment										
Fuel Oil Day Tanks - Steel 24,000 bbl	TN	1	105.00	210.00	0.00	25,000	0.00	0	50.00	10,500
Light Oil Tank - Steel 2,000 bbl	TN	1	16.00	16.00	0.00	5,000	0.00	0	540.00	8,640
Foundation - tanks					n/a	104,755	n/a	0	0.00	0
Fuel Oil Tank Cleaning					n/a	0	n/a	28,298	0.00	0
Sand base removal					n/a	0	n/a	42,978	0.00	0
Fuel Oil Burner Pump Heater - Steel	TN	1	7.08	14.16	180.40	2,554	0.00	0	50.00	708
Burner Fuel Oil Heater - Steel	TN	6	3.92	46.98	180.40	8,475	0.00	0	50.00	2,349
Fuel Oil Burner Pump/ Motor	TN	3	2.42	14.52	180.40	2,619	0.00	0	50.00	726
Basket Strainer (18") - Steel	TN	2	1.16	4.63	180.40	835	0.00	0	50.00	232
Fuel Oil Burner Booster Pump w/ motor	TN	2	4.74	18.96	180.40	3,420	0.00	0	50.00	948
Forced Draft Fan	TN	4	20.30	162.40	135.30	21,973	0.00	0	50.00	8,120
Forced Draft Fan Motor	TN	4	13.26	106.04	135.30	14,347	0.00	0	50.00	5,302
Forced Draft Fan Hydraulic Coupling	TN	4	7.75	62.00	180.40	11,185	0.00	0	50.00	3,100
Gas Induction Fan	TN	2	36.50	146.00	135.30	19,754	0.00	0	50.00	7,300
Gas Induction Fan Motor	TN	2	12.70	50.80	135.30	6,873	0.00	0	50.00	2,540
Gas Induction Fan Hydraulic Coupling	TN	2	9.25	37.00	180.40	6,675	0.00	0	50.00	1,850
F/D Fan & G/I Fan Foundations - Reinf Conc	CY	1	2,500.00	2,500.00	54.00	135,000	61.00	152,500	0.00	0
Breeching Foundations - Reinforced Concrete	CY	1	130.00	260.00	54.00	14,040	61.00	15,860	0.00	0
Steel Support - Fan Removal	TN	1	136.00	272.00	135.30	36,802	0.00	0	50.00	13,600
Ductwork - Steel (53,761 sf x 1/4")	TN	1	274.18	548.37	180.40	98,925	0.00	0	50.00	27,418
Forced Draft Fan Hoist - 7 1/2 Ton	TN	2	1.35	5.40	180.40	974	0.00	0	50.00	270
Gas Induction Fan Hoist - 7 1/2 Ton	TN	2	1.19	4.76	180.40	859	0.00	0	50.00	238
Insulated Copper Wire	TN	1	4.17	8.34	492.00	4,103	0.00	0	760.00	6,338
Conduit - Aluminum	TN	1	19.90	39.81	291.10	11,588	0.00	0	600.00	23,885

MANATEE DISMANTLEMENT STUDY

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Piping, Vlvs Under 4" - Steel	TN	1	122.18	122.18	291.10	35,568	0.00	0	50.00	6,109
Piping, Vlvs 4" to 8" - Steel	TN	1	80.37	80.37	180.40	14,498	0.00	0	50.00	4,018
Piping, Vlvs Over 8" - Steel	TN	1	118.31	118.31	135.30	16,008	0.00	0	50.00	5,916
Piping, Vlvs 4" to 8" - Iron	TN	1	39.50	39.50	246.00	9,716	0.00	0	50.00	1,975
Piping, Vlvs Over 8" - Iron	TN	1	66.35	66.35	246.00	16,321	0.00	0	50.00	3,317
Piping, Vlvs - Fiberglass	TN	1	1.75	1.75	246.00	431	0.00	0	0.00	0
15" Piping - Reinforced Concrete	TN	1	8.31	8.31	207.00	1,720	0.00	0	0.00	0
Piping Foundations - Reinforced Concrete	CY	1	214.00	214.00	54.00	11,556	61.00	13,054	0.00	0
Piping Insulation	CY	1	59.09	59.09	41.00	2,423	11.00	650	0.00	0
Subtotal						643,998		253,340		145,400
Boiler Plant Equipment										
Structural Steel	TN	1	2,915.00	5,830.00	135.30	788,799	0.00	0	50.00	291,500
Checkerplate - Steel 49,094 sf	TN	1	220.92	441.84	180.40	79,708	0.00	0	50.00	22,092
Handrailing - Steel 12,216 lf	TN	1	30.54	61.08	180.40	11,019	0.00	0	50.00	3,054
Steam Generation Unit - including:										
Steam Drum, Internals, Supports	TN	2	272.50	1,090.00	135.30	147,477	0.00	0	50.00	54,500
Burner Area & Windboxes	TN	1	81.50	163.00	135.30	22,054	0.00	0	50.00	8,150
Penthouse Area	TN	1	816.50	1,633.00	135.30	220,945	0.00	0	50.00	81,650
Heat Recovery Area	TN	1	293.00	586.00	135.30	79,286	0.00	0	50.00	29,300
Hopper Area	TN	1	13.50	27.00	135.30	3,653	0.00	0	50.00	1,350
Water Walls/ Headers	TN	1	1,753.00	3,506.00	135.30	474,362	0.00	0	50.00	175,300
Downcomers	TN	1	675.00	1,350.00	135.30	182,655	0.00	0	50.00	67,500
Air Preheater	TN	2	667.50	2,670.00	135.30	361,251	0.00	0	50.00	133,500
Steam Coil Air Heater	TN	1	15.24	30.48	135.30	4,124	0.00	0	50.00	1,524
Superheater	TN	1	1,001.00	2,002.00	135.30	270,871	0.00	0	50.00	100,100
Reheater	TN	1	942.50	1,885.00	135.30	255,041	0.00	0	50.00	94,250
Economizer	TN	1	731.50	1,463.00	135.30	197,944	0.00	0	50.00	73,150
Flues/ Ductwork	TN	1	689.50	1,379.00	180.40	248,772	0.00	0	50.00	68,950
Boiler Setting - Insulation	CY	1	2,090.40	4,180.80	41.00	171,413	11.00	45,989	0.00	0
Soot Blower	TN	32	1.95	124.80	180.40	22,514	0.00	0	50.00	6,240
Soot Blower Support Steel	TN	1	20.00	40.00	180.40	7,216	0.00	0	50.00	2,000
Safety/ Relief Valves (total)	TN	1	14.00	28.00	180.40	5,051	0.00	0	50.00	1,400
Safety/ Relief Valve Silencers	TN	1	35.00	70.00	180.40	12,628	0.00	0	50.00	3,500
Instrument Air Compressor w/ 100 hp motor	TN	2	6.30	25.20	180.40	4,546	0.00	0	50.00	1,260
Instrument Air Dryer	TN	1	2.00	4.00	180.40	722	0.00	0	50.00	200
Compressor Foundations - Reinforced Concrete	CY	1	15.00	15.00	54.00	810	61.00	915	0.00	0
Boiler Combustion Controls	TN	1	3.50	7.00	291.10	2,038	0.00	0	50.00	350
Steam and Water Sampling System	TN	1	1.50	3.00	291.10	873	0.00	0	50.00	150
Air Preheater Cleaning & Washing System	TN	2	1.34	5.35	291.10	1,556	0.00	0	50.00	267
Piping, Vlvs Under 4" - Steel	TN	1	65.95	65.95	291.10	19,197	0.00	0	50.00	3,297
Piping, Vlvs 4" to 8" - Steel	TN	1	30.45	30.45	180.40	5,493	0.00	0	50.00	1,523
Piping, Vlvs Over 8" - Steel	TN	1	15.50	15.50	135.30	2,097	0.00	0	50.00	775
Piping Insulation	CY	1	8.34	8.34	41.00	342	11.00	92	0.00	0
Subtotal						3,604,455		46,996		1,226,832
Boiler Plant Auxiliaries										
Feedwater System										
#1 Low Pressure Feedwater Heater - Steel	TN	2	30.85	123.40	135.30	16,696	0.00	0	50.00	6,170
#2 Low Pressure Feedwater Heater - Steel	TN	2	21.95	87.80	135.30	11,879	0.00	0	50.00	4,390
#3 Low Pressure Feedwater Heater - Steel	TN	1	41.80	83.60	135.30	11,311	0.00	0	50.00	4,180
#4 Low Pressure Feedwater Heater - Steel	TN	1	42.80	85.60	135.30	11,582	0.00	0	50.00	4,280

MANATEE DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost Per Item	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
#5 Low Pressure Feedwater Heater - Steel	TN	1	53.65	107.30	135.30	14,518	0.00	0	50.00	5,365
#6 High Pressure Feedwater Heater - Steel	TN	2	48.15	192.60	135.30	26,059	0.00	0	50.00	9,630
#7 High Pressure Feedwater Heater - Steel	TN	2	53.50	214.00	135.30	28,954	0.00	0	50.00	10,700
Condensate Recovery Drain Cooler - Steel	TN	1	1.00	2.00	291.10	582	0.00	0	50.00	100
Condensate Recovery Vent Condenser - Steel	TN	1	1.25	2.50	180.40	451	0.00	0	50.00	125
Boiler Feed Pump	TN	2	14.48	57.90	135.30	7,834	0.00	0	50.00	2,895
Boiler Feed Pump Motor	TN	2	13.03	52.10	135.30	7,049	0.00	0	50.00	2,605
Boiler Feed Pump Lube Oil Reservoir - Steel	TN	2	2.70	10.80	180.40	1,948	0.00	0	50.00	540
Boiler Feed Pump Lube Oil Batch Tank - Steel	TN	1	1.93	3.86	180.40	696	0.00	0	50.00	193
Boiler Feed Pump Lube Oil Conditioning Tank	TN	1	1.00	2.00	291.10	582	0.00	0	50.00	100
Heater Drain Pump/ Motor	TN	2	5.95	23.80	180.40	4,294	0.00	0	50.00	1,190
Heater Drain Pump Strainer - Steel	TN	2	1.00	4.00	291.10	1,164	0.00	0	50.00	200
Heater Drain Pmp/ Mtr Foundation - Reinf Conc	CY	1	10.00	20.00	54.00	1,080	61.00	1,220	0.00	0
Condensate Storage Tank - 400,000 gal	TN	1	48.00	96.00	135.30	12,989	0.00	0	50.00	4,800
Condensate Strg Tank Foundation - Reinf Conc	CY	1	420.00	420.00	54.00	22,680	61.00	25,620	0.00	0
Condensate Recovery Tank - Steel	TN	1	9.35	18.69	180.40	3,372	0.00	0	50.00	935
Condensate Rcvry Tank Foundation - Reinf Conc	CY	1	32.00	32.00	54.00	1,728	61.00	1,952	0.00	0
Condensate Recovery Flash Tank - Steel	TN	1	1.41	2.82	180.40	509	0.00	0	50.00	141
Blowdown Tank - Steel	TN	1	6.33	12.65	180.40	2,282	0.00	0	50.00	633
Blowdown Tank Silencer - Steel	TN	1	1.42	2.84	180.40	512	0.00	0	50.00	142
Blowdown Tank Foundation - Reinf Concrete	CY	1	10.00	20.00	54.00	1,080	61.00	1,220	0.00	0
Boiler Blowdown Heat Exchanger - Steel	TN	1	1.95	3.90	180.40	704	0.00	0	50.00	195
System Piping, Vlvs Under 4" - Steel	TN	1	102.10	102.10	291.10	29,721	0.00	0	50.00	5,105
System Piping, Vlvs 4" to 8" - Steel	TN	1	88.04	88.04	180.40	15,883	0.00	0	50.00	4,402
System Piping, Vlvs Over 8" - Steel	TN	1	52.95	52.95	135.30	7,164	0.00	0	50.00	2,647
System Insulation	CY	1	70.12	70.12	41.00	2,875	11.00	771	0.00	0
Subtotal						248,179		30,783		71,663
<u>Closed Cooling Water System Equipment</u>										
Cooling Water Pump w/ 300 hp motor	TN	2	3.42	13.68	180.40	2,468	0.00	0	50.00	684
Cooling Water Pump Strainer (20") - Iron	TN	2	1.33	5.33	180.40	962	0.00	0	50.00	267
Cooling Water Heat Exchanger - Steel	TN	2	24.00	96.00	135.30	12,989	0.00	0	50.00	4,800
Pmp/mtr, Heat Exchanger Fndtions - Reinf Conc	CY	1	91.00	91.00	54.00	4,914	61.00	5,551	0.00	0
Cooling Water Surge Tank - Steel	TN	1	2.01	4.01	180.40	724	0.00	0	50.00	201
Subtotal						22,056		5,551		5,951
<u>Boiler Plant Piping - All Systems</u>										
Piping, Vlvs Under 4" - Steel	TN	1	658.89	658.89	291.10	191,803	0.00	0	50.00	32,945
Piping, Vlvs 4" to 8" - Steel	TN	1	448.78	448.78	180.40	80,959	0.00	0	50.00	22,439
Piping, Vlvs Over 8" - Steel	TN	1	2,120.18	2,120.18	135.30	286,860	0.00	0	50.00	106,009
Copper Tubing	TN	1	19.25	19.25	291.10	5,603	0.00	0	710.00	13,665
Steel Tubing	TN	1	1.57	1.57	291.10	456	0.00	0	50.00	78
Piping Insulation	CY	1	253.64	253.64	41.00	10,399	11.00	2,790	0.00	0
Subtotal						576,080		2,790		175,135
<u>Induced Draft Equipment</u>										
Induced Draft Fan	TN	4	52.85	422.80	135.30	57,205	0.00	0	50.00	21,140
Induced Draft Fan Motor - 4,500 hp	TN	4	16.50	132.00	135.30	17,860	0.00	0	50.00	6,600
Induced Draft Fan Hydraulic Coupling	TN	4	15.00	120.00	135.30	16,236	0.00	0	50.00	6,000
ID Fans/ Motors Foundation - Reinf Concrete	CY	1	2,304.00	2,304.00	54.00	124,416	61.00	140,544	0.00	0
I/D Fan Hoist - 20 Ton	TN	1	2.10	4.20	180.40	758	0.00	0	50.00	210
Dust Collector, Vibrating System, Outlet Duct	TN	1	512.50	1,025.00	180.40	184,910	0.00	0	50.00	51,250

MANATEE DISMANTLEMENT STUDY

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Stack Breaching Foundation - Reinf Concrete	CY	1	641.00	641.00	54.00	34,614	61.00	39,101	0.00	0
Ductwork - Steel (70,395 sf x 1/4")	TN	1	359.02	718.03	180.40	129,533	0.00	0	50.00	35,902
Ash Pits - Reinforced Concrete	CY	1	68.00	68.00	54.00	3,672	61.00	4,148	0.00	0
Ash Water Pump w/ 40 hp motor	TN	2	1.18	4.70	180.40	848	0.00	0	50.00	235
Stack Foundation - Reinforced Concrete	CY	1	10,141.00	10,141.00	54.00	547,614	61.00	618,601	0.00	0
Stack - Reinforced Concrete	CY	1	3,851.00	7,702.00	54.00	415,908	61.00	469,822	0.00	0
Stack Lining - Concrete Brick	CY	1	3,760.80	7,521.60	21.60	162,467	61.00	458,818	0.00	0
Piping, Vlvs Under 4" - Steel	TN	1	2.63	2.63	291.10	764	0.00	0	50.00	131
Piping, Vlvs 4" to 8" - Steel	TN	1	2.93	2.93	180.40	529	0.00	0	50.00	147
Piping, Vlvs Over 8" - Steel	TN	1	128.26	128.26	135.30	17,354	0.00	0	50.00	6,413
Insulation	CY	1	18.37	18.37	41.00	753	11.00	202	0.00	0
Subtotal						1,715,440		1,731,236		128,028
Miscellaneous Equipment & Steel	TN	1	360.94	360.94	291.10	105,070	0.00	0	50.00	18,047
Total Account 312						6,915,278		2,070,696		1,771,055
FERC Account 314										
Turbogenerator Unit										
Foundations										
Turbine Pedestal - Reinforced Concrete	CY	1	5,147.00	5,147.00	54.00	277,938	61.00	313,967	0.00	0
Subtotal						277,938		313,967		0
Turbogenerator Equipment										
Turbine Generator	TN	1	683.85	1,367.69	102.50	140,188	0.00	0	50.00	68,385
Main Lube Oil Pump w/ motor	TN	1	3.00	6.00	180.40	1,082	0.00	0	50.00	300
Aux Lube Oil Pump w/ motor	TN	1	2.00	4.00	180.40	722	0.00	0	50.00	200
Turbine Copper	TN	1	62.00	124.00	400.00	49,600	0.00	0	710.00	88,040
Lube Oil Conditioning Tank - Steel	TN	1	3.27	6.54	180.40	1,180	0.00	0	50.00	327
Lube Oil Batch Tank - 15,000 gal	TN	1	12.20	24.40	135.30	3,301	0.00	0	50.00	1,220
Piping, Vlvs Under 4" - Steel	TN	1	26.78	26.78	291.10	7,796	0.00	0	50.00	1,339
Piping, Vlvs 4" to 8" - Steel	TN	1	11.61	11.61	180.40	2,094	0.00	0	50.00	580
Subtotal						205,963		0		160,391
Condenser and Auxiliaries										
Condenser Shell - Steel	TN	1	424.24	848.48	135.30	114,799	0.00	0	50.00	42,424
Condenser Tubes - Aluminum-Brass	TN	1	433.94	867.87	291.10	252,637	0.00	0	140.00	121,502
Condenser Tubes - Cupro Nickel	TN	1	15.14	30.28	291.10	8,813	0.00	0	1,490.00	45,111
Condenser Foundation - Reinforced Concrete	CY	1	132.00	264.00	54.00	14,256	61.00	16,104	0.00	0
Condensate Pump w/ 2,250 hp motor	TN	2	14.71	58.84	135.30	7,961	0.00	0	50.00	2,942
Condensate Pump Strainer/ Baskets (30") -Iron	TN	2	1.85	7.40	180.40	1,335	0.00	0	50.00	370
Circ Water Priming Vacuum Pump/Motors/Tank	TN	1	2.85	5.70	180.40	1,028	0.00	0	50.00	285
Hogging Ejector, Other Ejecs, Assoc Eqpmnt	TN	1	9.00	18.00	180.40	3,247	0.00	0	50.00	900
Piping, Vlvs Under 4" - Steel	TN	1	19.58	19.58	291.10	5,699	0.00	0	50.00	979
Piping, Vlvs 4" to 8" - Steel	TN	1	10.80	10.80	180.40	1,948	0.00	0	50.00	540
Piping, Vlvs Over 8" - Steel	TN	1	16.12	16.12	135.30	2,181	0.00	0	50.00	806
System Insulation	CY	1	17.13	17.13	41.00	702	11.00	188	0.00	0
Subtotal						414,608		16,292		215,859
Circulating Water System										
Pump - 100,000 gpm	TN	4	41.50	332.00	135.30	44,920	0.00	0	50.00	16,600
Pump Motor - 1,000 hp	TN	4	12.10	96.80	135.30	13,097	0.00	0	50.00	4,840

MANATEE DISMANTLEMENT STUDY

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Subtotal						58,017		0		21,440
Miscellaneous Equipment & Steel	TN	1	62.28	62.28	291.10	18,130	0.00	0	50.00	3,114
Total Account 314						974,655		330,259		400,804
FERC Account 315										
Accessory Electrical Equipment										
Generator Leads & Supports										
Foundations - Reinforced Concrete	CY	1	902.00	1,804.00	54.00	97,416	61.00	110,044	0.00	0
Generator Leads Enclosures/ Supports - Steel	TN	1	32.00	64.00	180.40	11,546	0.00	0	50.00	3,200
Subtotal						108,962		110,044		3,200
Power Conversion Equipment										
6900V Metal-clad Switchgear	TN	2	96.10	384.40	291.10	111,899	0.00	0	50.00	19,220
6900V Non-segregated Phase Bus	TN	1	19.32	38.65	291.10	11,250	0.00	0	710.00	27,439
6900V Non-segregated Phase Bus - Struc Steel	TN	1	3.75	7.50	135.30	1,015	0.00	0	50.00	375
480V Metal-clad Switchgear	TN	1	41.10	82.20	291.10	23,928	0.00	0	50.00	4,110
480V Load Control Center - 1,000 kva	TN	2	2.60	10.40	291.10	3,027	0.00	0	50.00	520
480V Load Control Center - 1,500 kva	TN	4	3.25	26.00	291.10	7,569	0.00	0	50.00	1,300
480V Motor Control Center (9 @ >1 ton each)	TN	1	29.10	58.20	291.10	16,942	0.00	0	50.00	2,910
Auxiliary Power Transformer	TN	1	49.05	98.10	291.10	28,557	0.00	0	50.00	4,905
Station Service Transformer	TN	1	7.80	15.60	291.10	4,541	0.00	0	50.00	780
Transformer Copper	TN	1	25.64	25.64	300.00	7,692	0.00	0	710.00	18,204
Xfrmr/Swgr Foundations/ Curbs - Reinf Conc	CY	1	837.00	837.00	54.00	45,198	61.00	51,057	0.00	0
Manholes & Handholes - Reinforced Concrete	CY	1	1,584.00	1,584.00	54.00	85,536	61.00	96,624	0.00	0
Generator Isolated Phase Bus	TN	1	37.92	75.84	291.10	22,076	0.00	0	710.00	53,844
Generator Isolated Phase Bus - Struc Steel	TN	1	9.00	18.00	135.30	2,435	0.00	0	50.00	900
Neutral Grounding Transformer	TN	3	4.00	24.00	291.10	6,986	0.00	0	50.00	1,200
Transformer Neutral Grounding System Eqpt	TN	3	1.25	7.50	291.10	2,183	0.00	0	50.00	375
Current Transformer	TN	6	1.00	12.00	291.10	3,493	0.00	0	50.00	600
125VDC Load Control Center	TN	1	3.50	7.00	291.10	2,038	0.00	0	50.00	350
25 kva Cyberec Static Inverter	TN	2	1.00	4.00	291.10	1,164	0.00	0	50.00	200
25 kva Uninterruptible Power Supply (UPS)	TN	1	1.00	2.00	291.10	582	0.00	0	50.00	100
Battery Unit - 125VDC, 60-Cell	TN	1	10.50	21.00	291.10	6,113	0.00	0	0.00	0
Battery Charger	TN	3	1.05	6.30	291.10	1,834	0.00	0	50.00	315
Main Boiler-Turbine Generator Control Board	TN	1	25.58	51.16	291.10	14,893	0.00	0	50.00	2,558
Main Boiler-Turbine Generator Control Panel	TN	1	8.80	17.60	291.10	5,123	0.00	0	50.00	880
Bus Current Transformer	TN	3	1.00	6.00	291.10	1,747	0.00	0	50.00	300
Potential Transformer	TN	1	2.25	4.50	291.10	1,310	0.00	0	50.00	225
Voltage & Field Breaker Regulator	TN	1	6.00	12.00	291.10	3,493	0.00	0	50.00	600
Conduit (underground) - PVC	TN	1	246.15	246.15	246.00	60,554	0.00	0	0.00	0
Conduit (exposed) - Steel	TN	1	374.94	374.94	291.10	109,145	0.00	0	50.00	18,747
Conduit Supports - Reinforced Concrete	CY	1	7,579.00	7,579.00	54.00	409,266	61.00	462,319	0.00	0
Cable Tray - Steel	TN	1	96.76	96.76	291.10	28,167	0.00	0	50.00	4,838
Power and Control Wiring - Insulated Copper	TN	1	581.18	581.18	492.00	285,941	0.00	0	760.00	441,698
Grounding Wire - Bare Copper	TN	1	27.13	27.13	492.00	13,348	0.00	0	710.00	19,263
Subtotal						1,329,047		610,000		626,756
Total Account 315						1,438,008		720,044		629,956
FERC Account 316										

MANATEE DISMANTLEMENT STUDY

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Miscellaneous Power Plant Equipment										
Compressed Air Piping, Vivs Under 4" - Steel	TN	1	128.62	128.62	291.10	37,440	0.00	0	50.00	6,431
Compressed Air Piping, Vivs 4" to 8" - Steel	TN	1	5.09	5.09	180.40	919	0.00	0	50.00	255
Nitrogen Purge Piping, Vivs Under 4" - Steel	TN	1	141.36	141.36	291.10	41,151	0.00	0	50.00	7,068
Total Account 316						79,510		0		13,754
FERC Account 353										
Substation Equipment										
Switchyard Foundation - Reinforced Concrete	CY	1	20.00	40.00	54.00	2,160	61.00	2,440	0.00	0
Main Power Transformer	TN	2	250.20	1,000.80	291.10	291,333	0.00	0	50.00	50,040
Transformer Copper	TN	1	100.08	100.08	300.00	30,024	0.00	0	710.00	71,057
Main Pwr Transformer Foundation - Reinf Conc	CY	1	1,165.50	1,165.50	54.00	62,937	61.00	71,096	0.00	0
Main Power Transformer Firewall - Reinf Conc	CY	1	28.01	56.02	54.00	3,025	61.00	3,417	0.00	0
Transformer Bus Support/ Pull-off Structure	TN	1	25.80	51.60	135.30	6,981	0.00	0	50.00	2,580
242 kva Oil Circuit Breaker	TN	1	25.11	50.21	291.10	14,616	0.00	0	50.00	2,511
Bare Aluminum Wiring	TN	1	2.00	4.00	492.00	1,968	0.00	0	600.00	2,400
Total Account 353						413,045		76,953		128,587
TOTAL MANATEE UNITS 1 & 2						13,888,401		4,744,241		3,077,162
MANATEE FUEL OIL STORAGE FACILITY										
FERC Account 311										
Improvements to Site										
Port Manatee Unloading Facility										
30" Buried Piping to Storage Facility	TN	1	3,133.82	3,133.82	246.00	770,920	0.00	0	0.00	0
Pre-cast Pipe Clamps/ Supports - Concrete	CY	1	1,694.55	1,694.55	21.60	36,602	61.00	103,368	0.00	0
Valve Pits - Reinforced Concrete	CY	1	94.43	94.43	54.00	5,099	61.00	5,760	0.00	0
Subtotal						812,621		109,128		0
Manatee Fuel Oil Storage Facility										
Asphalt Paving	CY	1	609.54	609.54	21.60	13,166	61.00	37,182	0.00	0
Septic Tank System - Concrete	TN	1	2.00	2.00	207.00	414	0.00	0	0.00	0
Surge Basin - Reinforced Concrete	CY	1	59.82	59.82	54.00	3,230	61.00	3,649	0.00	0
Collection Sumps - Steel (total)	TN	1	12.31	12.31	180.40	2,221	0.00	0	50.00	616
Collection Sumps Foundations - Reinf Concrete	CY	1	30.46	30.46	54.00	1,645	61.00	1,858	0.00	0
Fuel Oil Purge Tank Foundation - Reinf Conc	CY	1	802.77	802.77	54.00	43,350	61.00	48,969	0.00	0
Sump Tanks - Steel (total)	TN	1	4.70	4.70	180.40	848	0.00	0	50.00	235
Yard Platforms, Walkways & Ladders - Steel	TN	1	26.00	26.00	180.40	4,690	0.00	0	50.00	1,300
Firemain Piping (4" & 12") & Hydrants - Steel	TN	1	28.00	28.00	246.00	6,888	0.00	0	50.00	1,400
Oily Waste Separator, Pump, Motor - Steel	TN	1	6.80	6.80	180.40	1,227	0.00	0	50.00	340
Diesel-driven Firepump/ Motor	TN	1	1.20	1.20	180.40	216	0.00	0	50.00	60
Motor-driven Firepump/ Motor	TN	1	1.00	1.00	291.10	291	0.00	0	50.00	50
500,000 bbl F/O Storage Tank & Mixers - Steel	TN	4	1,404.75	5,619.00	n/a	150,000	0.00	0	50.00	280,950
Fuel Oil Tank Foundation	EA	1	n/a	n/a	n/a	0	n/a	37,914	0.00	0
Fuel Oil Purge Tank - 37,000 bbl	TN	1	142.50	142.50	n/a	25,000	0.00	0	50.00	7,125
Fuel Oil Purge Tank - 37,000 bbl - Cleaning	EA	1	n/a	n/a	n/a	0	n/a	63,000	0.00	0
Fuel Oil Purge Tank - 37,000 bbl - Soil remediation	EA	1	n/a	n/a	n/a	0	n/a	14,371	0.00	0
Diesel Fuel Tank - Steel	TN	1	24.50	24.50	n/a	5,000	n/a	0	50.00	1,225
Diesel Fuel Tank Foundation - Reinf Concrete	CY	1	177.77	177.77	n/a	19,672	n/a	0	0.00	0
Diesel Fuel Tank - Cleaning Cost and Soil Remediation	1	1	n/a	n/a	n/a	0	n/a	4,816	0.00	0
500,000 bbl F/O Storage Tank Insulation	CY	4	680.00	2,720.00	41.00	111,520	11.00	29,920	0.00	0
500,000 bbl Tank Ladder & Platform - Steel	TN	4	2.85	11.40	180.40	2,057	0.00	0	50.00	570

MANATEE DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost Per Item	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Fuel Oil Tank Cleaning	EA	4	n/a	n/a	n/a	0	n/a	880,000	0.00	0
500,000 bbl Tank - Soil Remediation	EA	4	2,446.38	9,785.52	n/a	0	0.00	372,752	0.00	0
Fuel Oil Heating Boiler - Steel	TN	2	18.39	36.77	135.30	4,975	0.00	0	50.00	1,839
Fuel Oil Heat Exchanger - Steel	TN	2	5.45	10.90	180.40	1,966	0.00	0	50.00	545
Fuel Mainline Pump w/ 300 hp motor	TN	3	2.44	7.33	180.40	1,322	0.00	0	50.00	366
Fuel Mainline Pump Strainer - Iron	TN	3	1.02	3.06	180.40	552	0.00	0	50.00	153
Mainline Pmp/ Mtr/ Strnr Fndtion - Reinf Conc	CY	1	80.07	80.07	54.00	4,324	61.00	4,884	0.00	0
Fuel Oil Booster Pump w/ Motor	TN	2	1.21	2.42	180.40	437	0.00	0	50.00	121
Fuel Oil Booster Pump Strainer - Iron	TN	2	2.17	4.35	180.40	784	0.00	0	50.00	217
Pipeline Strainer (24") - Iron	TN	1	1.90	1.90	180.40	343	0.00	0	50.00	95
Pipeline Strainer (20") - Iron	TN	1	1.65	1.65	180.40	298	0.00	0	50.00	83
16" Piping, Vlvs to Martin Plant - Steel	TN	1	3,117.58	3,117.58	246.00	766,925	0.00	0	50.00	155,879
16" Pipeline Clamps - Steel	TN	1	8.76	8.76	291.10	2,550	0.00	0	50.00	438
Yard Piping, Vlvs Over 8" - Steel	TN	1	356.11	356.11	135.30	48,182	0.00	0	50.00	17,806
Yard Piping Supports - Steel	TN	1	10.00	10.00	135.30	1,353	0.00	0	50.00	500
Yard Piping Supports - Reinforced Concrete	CY	1	60.00	60.00	54.00	3,240	61.00	3,660	0.00	0
Meter Prover and Assoc Equipment - Steel	TN	1	13.00	13.00	180.40	2,345	0.00	0	50.00	650
Metering Installation - Steel	TN	1	21.30	21.30	180.40	3,843	0.00	0	50.00	1,065
Fuel Oil Purge Pump w/ motor	TN	1	1.00	1.00	291.10	291	0.00	0	50.00	50
Firepump Building - Concrete Block	CY	1	34.54	34.54	21.60	746	61.00	2,107	0.00	0
Firepump Building - Concrete Roofing	CY	1	25.77	25.77	21.60	557	61.00	1,572	0.00	0
Control Building - Concrete Block	CY	1	150.08	150.08	21.60	3,242	61.00	9,155	0.00	0
Control Building - Concrete Roofing	CY	1	140.00	140.00	21.60	3,024	61.00	8,540	0.00	0
Control Building - HVAC	TN	1	1.50	1.50	180.40	271	0.00	0	50.00	75
Building Foundations - Reinforced Concrete	CY	1	183.18	183.18	54.00	9,892	61.00	11,174	0.00	0
Subtotal						1,252,894		1,535,523		473,752
Total Account 311						2,065,516		1,644,651		473,752
FERC Account 315										
Accessory Electrical Equipment										
Manatee Fuel Oil Storage Facility										
Aux Power Transformer - 3750 kva	TN	1	11.00	11.00	291.10	3,202	0.00	0	50.00	550
Transformer - 500 kva	TN	1	1.40	1.40	291.10	406	0.00	0	50.00	70
480V Motor Control Cntr/ 2400V Swgr Structure	TN	1	20.00	20.00	291.10	5,822	0.00	0	50.00	1,000
Mtr Cntrl Cntr/ Switchgear Fndtn - Reinf Conc	CY	1	15.00	15.00	54.00	810	61.00	915	0.00	0
Emergency Diesel Generator & Assoc Equipment	TN	1	2.65	2.65	180.40	478	0.00	0	50.00	133
Neutral Grounding Transformer	TN	1	3.00	3.00	291.10	873	0.00	0	50.00	150
Transformer Copper	TN	1	6.16	6.16	300.00	1,847	0.00	0	710.00	4,372
Conduit - Steel	TN	1	264.00	264.00	291.10	76,850	0.00	0	50.00	13,200
Cable Trays - Steel	TN	1	9.24	9.24	291.10	2,690	0.00	0	50.00	462
Insulated Copper Wiring	TN	1	16.47	16.47	492.00	8,103	0.00	0	760.00	12,517
Bare Copper Wiring	TN	1	54.70	54.70	492.00	26,912	0.00	0	710.00	38,837
Supervisory Control Consoles (total)	TN	1	8.00	8.00	291.10	2,329	0.00	0	50.00	400
Total Account 315						130,324		915		71,691
TOTAL MANATEE FUEL OIL STORAGE FACILITY										
						2,195,839		1,645,566		545,443
TOTAL MANATEE COMMON, UNITS 1 & 2 AND FUEL OIL STORAGE FACILITY										
						18,246,695		8,317,272		3,919,556

MARTIN PLANT

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Martin Plant

The Martin Plant is located on an 11,267.4-acre site in Martin County east of Lake Okeechobee and approximately 30 miles northwest of the city of West Palm Beach. The site consists of four generating units, a cooling water reservoir, switchyard, and all related facilities for a commercial generating station.

The plant uses the Martin Reservoir, a 6,800-acre (outside area) cooling water reservoir, for both intake and discharge. The cooling pond operates as a closed cycle system; however, water withdrawals can be accomplished, if necessary, through a pump station from the St. Lucie Canal. The reservoir was designed for an ultimate site generating capacity of 4,000 megawatts. The two units have a combined maximum generator nameplate rating of 1,727 megawatts. Units No. 1 and 2 went into commercial operation during 1980 and 1981 respectively.

Each outdoor-type unit consists of a Westinghouse Electric Corporation tandem-compound, double flow reheat turbine and a Foster Wheeler Corporation outdoor reheat steam generator, utilizing a regenerative reheat cycle with all necessary auxiliaries and subsystems. Although the original design, by Mid-Valley, Inc., for both units was for oil-fired generation (#6 heavy oil), the units were converted in 1986 to also allow the burning of natural gas and oil/gas mixtures. Fuel, oil or gas, is provided through pipeline from the West Palm Beach Oil Terminal. Control of emissions is through mechanical collectors, flue gas recirculation, and controlled sulfur content of the fuel.

Martin Combined Cycle Units No. 3 & 4 began commercial operation in 1994 – Unit 3 in February and Unit 4 in April. These units also use the Martin Reservoir for both intake and discharge. The new units required addition of a new switchyard and an expansion of an existing switchyard at the site.

The combined cycle units consist of two advanced combustion turbines (CT's) fired on natural gas, with distillate oil as a backup fuel, plus two heat recovery steam generators (HRSG's) and a related steam turbine.

Bechtel Power Corporation designed the combined cycle units for General Electric. The combustion turbines and the steam turbine generators were purchased from General Electric, while the HRSG's and the stacks were fabricated and installed by the Henry Vogt Machine Company.

The West Palm Beach Oil Facility consists of the Port of Palm Beach Unloading Facility, the Riviera Plant Pumping Station, the pipeline from the Port of Palm Beach to the West Palm Beach Fuel Oil Terminal, the West Palm Fuel Oil Storage Facility, and the pipeline from West Palm Beach Storage Facility to the Martin Power Plant Fuel Storage Facility.

Florida Power & Light Company last requested and received approval for dismantlement accruals for the Martin plant in docket No. 941343-EI, Order No. PSC-95-1532-FOF-EI,

issued on December 12, 1995. The current accruals became effective as of January 1, 1995.

MARTIN
SUMMARY OF DISMANTLEMENT COSTS

FERC Account	Description	Removal Cost (A)	Disposal Cost (B)	Salvage Value (C)	Total (D)=(A + B - C)
<u>Martin Common</u>					
<u>Production Plant</u>					
311	Structures and Improvements	1,657,238	2,363,541	150,979	3,869,800
312	Boiler Plant Equipment	47,988	0	14,759	33,229
314	Turbogenerator Units	0	0	0	0
315	Accessory Electrical Equipment	194,617	12,635	20,706	186,546
316	Miscellaneous Equipment	701	0	204	496
	Subtotal	1,900,544	2,376,176	186,649	4,090,072
<u>Transmission Plant</u>					
353	Substation Equipment	492,982	314,547	61,611	745,918
<u>Other Site Costs:</u>					
	Site Mangement Expenses	763,776			763,776
	Intake & Discharge Backfill	100,516			100,516
	Grading & Seeding	4,075,198			4,075,198
	Subtotal	4,939,490	0	0	4,939,490
<u>Martin Fuel Oil Storage Facility</u>					
311	Structures and Improvements	4,091,171	2,665,201	670,728	6,085,644
312	Boiler Plant Equipment	0	0	0	0
314	Turbogenerator Units	0	0	0	0
315	Accessory Electrical Equipment	85,670	3,230	63,280	25,620
316	Miscellaneous Equipment	0	0	0	0
	Subtotal	4,176,841	2,668,431	734,008	6,111,264
	Total	11,509,856	5,359,154	982,267	15,886,743
	Contingency - 16%	1,841,577	857,465		2,699,042
	Total Martin Common Excl Unusable M&S	13,351,433	6,216,618	982,267	18,585,785
	Unusable M&S Inventory	877,126	0	131,569	745,557
	Total Martin Common incl Unusable M&S	14,228,560	6,216,618	1,113,836	19,331,342
<u>Martin Units 1 & 2</u>					
311	Structures and Improvements	3,897,334	2,409,010	117,852	6,188,493
312	Boiler Plant Equipment	6,378,685	2,881,123	1,793,715	7,466,093
314	Turbogenerator Units	936,668	616,376	312,764	1,240,279
315	Accessory Electrical Equipment	1,171,494	748,790	612,802	1,307,482
316	Miscellaneous Equipment	75,631	0	13,754	61,878
	Subtotal	12,459,812	6,655,299	2,850,886	16,264,224
	Contingency - 16%	1,993,570	1,064,848		3,058,418
	Total Martin Units 1 & 2	14,453,382	7,720,147	2,850,886	19,322,642
<u>Martin Unit 3</u>					
341	Structures and Improvements	1,112,572	1,190,697	171,656	2,131,613
342	Fuel Holders, Producers and Accessories	284,767	384,580	22,093	647,254
343	Prime Movers	1,239,976	536,189	614,249	1,161,916
344	Generators	126,793	126,730	38,730	214,793
345	Accessory Electric Equipment	377,803	295,777	144,232	529,349
346	Miscellaneous Power Plant Equipment	11,436	0	3,059	8,377
353	Substation Equipment	226,908	98,895	68,162	257,641
	Subtotal	3,380,254	2,632,869	1,062,181	4,950,941
	Contingency - 16%	540,841	421,259		962,100
	Total Martin Unit 3	3,921,095	3,054,128	1,062,181	5,913,041
<u>Martin Unit 4</u>					
341	Structures and Improvements	690,902	649,614	298,315	1,042,200
342	Fuel Holders, Producers and Accessories	19,475	0	6,195	13,280
343	Prime Movers	1,288,065	537,684	582,219	1,243,530
344	Generators	127,669	128,630	38,730	217,569
345	Accessory Electric Equipment	294,305	289,656	40,034	543,926
346	Miscellaneous Power Plant Equipment	8,767	0	2,597	6,170
353	Substation Equipment	231,994	115,995	72,438	275,551
	Subtotal	2,661,178	1,721,579	1,040,528	3,342,228
	Contingency - 16%	425,788	275,453		701,241
	Total Martin Unit 4	3,086,966	1,997,031	1,040,528	4,043,469
	Total Dismantlement Costs	35,690,002	18,987,924	6,067,432	48,610,494

**MARTIN
DISMANTLEMENT COST FOR INFLATION PROJECTION**

Description	Labor (A)	Material & Equipment (B)	Burial (C)	Salvage (D)	Total (A) + (B) + (C) - (D)
Martin Common	8,010,860	6,217,699	6,216,618	1,113,836	19,331,342
Martin Units 1 & 2	8,672,029	5,781,353	7,720,147	2,850,886	19,322,642
Martin Unit 3	2,352,657	1,568,438	3,054,128	1,062,181	5,913,041
Martin Unit 4	1,852,180	1,234,787	1,997,031	1,040,528	4,043,469
Total	20,887,726	14,802,276	18,987,924	6,067,432	48,610,494

Labor is 60% of Removal Cost from Summary of Dismantlement Costs.
 Material & Equipment is 40% of Removal Cost from Summary of Dismantlement Costs
 Burial is 100% of Disposal Cost from Summary of Dismantlement Costs
 Salvage is 100% of Salvage from Summary of Dismantlement Costs.

MARTIN DISMANTLEMENT ASSUMPTIONS

FPL will provide management personnel for the dismantlement effort.

FPL will prepare the request for proposal package and solicit bids for the decommissioning effort.

FPL will provide site security during the dismantlement.

FPL will hire a demolition contractor to perform the actual dismantling work. This contractor will have the salvage rights to all plant equipment and structural material.

The land will be made available for future use.

All dismantling work will be done in accordance with OSHA regulations.

The fuel oil storage tanks will be cleaned and their contents disposed of according to the requirements of current regulations.

The following items will be removed:

- a. All structures, equipment, and concrete pads, pedestals, foundations, etc.;
- b. All underground gas, oil, sewer and water piping and electrical conduits (underground concrete piping to be collapsed);
- c. All hazardous and contaminated materials, e.g., acid filled lead batteries, oil tank residue.

Discussions with FPL's Power Generation Services Department (PGS) indicate that the return of the site to a green field condition entails removal of all structures above the wood pilings and steel-encased concrete pilings. The removal of the pilings would be unfeasible and, therefore, will remain in place.

The turbine pedestals and chimney will be control-blasted.

Scrap will be unprepared, i.e., cut only to the extent required to load the pieces on scrap dealers' trailers. Trucking costs for removal are paid by the scrap dealer and are reflected in the salvage value paid.

The estimate does not reflect land value or its resale.

The productivity factors employed are assumed valid for purposes of this study.

A contingency of 16% has been applied to the total removal and disposal costs. This contingency percentage covers costs associated with delays occurring after dismantlement begins due to such causes as equipment failure and weather delays.

The costs of such overhead items as project management, site security, etc., have been estimated by FPL's PGS Department. These costs are listed on the cost summary pages for each site's dismantlement study.

All materials and equipment are assumed to be either fully salvageable or to be disposed of completely. The availability of powerful cutting shears makes possible the cutting of even the heaviest steel to a size that permits salvage as scrap.

A 30% swell factor is used to compute the disposal cost per cubic yard of concrete. One cubic yard of concrete becomes 1.3 cubic yards of concrete rubble after demolition.

The switchyard and ancillary equipment (FERC account 353) will remain in place with the exception of the main power transformers, oil circuit breakers, superstructures, and foundations associated with the tie-in of plant generated power in the switchyard.

The turbine pedestals and chimneys will be control-blasted.

Transformer and circuit breaker insulating oils are assumed not to contain PCB's. Therefore, the transformers and oil circuit breakers will be salvageable.

It is assumed that dismantlement activity at Martin plant will begin five years after end of service. The end of service dates used for this assumption conform to the economic recovery period ending dates used in the Martin plant depreciation study filed as of year end 1997.

Martin is an asbestos free site.

It is assumed that the cooling reservoir at the Martin site will not be back-filled. The State of Florida has expressed an interest in using the reservoir for water management purposes. Also, some communities have indicated interest in its potential use as a source of water.

The ten inch collapsible unloading arms and ten inch stationary unloading arms at Slip #2 at Riviera Power Plant serve to off-load fuel from vessels for both Riviera and Martin Plants. The four unloading arms have been included in the Martin dismantlement study because Martin should be in service long after Riviera.

The 35.8 mile steel pipeline from the Fuel Oil Storage Facility to the power plant will be unearthed, cut up and taken as scrap. The three and one-quarter mile pipeline from the Riviera Unloading Facility to the Fuel Oil Storage Facility, though steel, is encased in five inches of concrete and assumed unsalvageable. It will be unearthed, cut up and disposed of.

DISMANTLING ACTIVITIES: OIL & GAS & OTHER PRODUCTION PLANTS

- Remove loose equipment, furniture, and spare parts.
- Drain liquids, drum-up, and dispose of drums.
- Remove hazardous materials; i.e., leads (alkaline), acids, solvents, lubricants, oils, chemicals, and gasses.
- Strip all insulation and covering, package and remove to acceptable landfill.
- Collapse circulating water lines and backfill trenches.
- Remove main steam, hot and cold piping, downcomers, valves, and supports, pumps, motors, generator auxiliary equipment, feedwater heaters, soot blowers, and condensers.
- Remove intake and discharge structures, equipment pumps, piping and valves.
- Remove systems that must be completed prior to the start of the boiler removal including lube oil pumps, all piping, instrument and electrical systems.
- Remove forced drafts and induced draft ductwork, air heaters and fans.
- Remove hoppers, burners, upper and lower headers, manways, and waterwalls.
- Remove heavy steel structures and above ground steel – precut key members, lower and cut at ground level.
- Disassemble crane, boiler feed pumps, and turbine generator.
- Separate scrap metals, and remove to scrap yard.
- Remove and dispose of miscellaneous rubble.
- Remove turbine pedestal, foundation, and heavy concrete structures and building, stack foundations, equipment foundations, substructures, support buildings and stacks. Remove to landfill.
- Cut off piles and remove pile caps. Remove concrete encased duct banks and underground piping.
- Remove septic tank and backfill.
- Remove underground storage tanks.
- Test and remove contaminated soil/bases – all areas.
- Install environmental monitoring equipment such as wells.
- Remove or improve remaining site facilities such as buildings, fences, parking areas in accordance with local code and regulations.
- Install/modify existing site storm water runoff system.

DISMANTLING ACTIVITIES: OIL & GAS AND OTHER PRODUCTION PLANTS
(Continued)

- Remove switchyard electrical equipment, structures, and foundations. Modify services to remaining occupied structures as required.
- Remove gas supply metering site, valve stations, underground distribution system.
- Backfill, site grading, seeding, mulching.
- Remove solid and liquid wastes from waste treatment processing areas – landfilled material, precipitated material in ponds and tanks, contaminated resins and reactants.
- Remove marine facilities such as fuel unloading docks, equipment, bridges, and dams.
- Cut and remove fuel oil tanks, piping, valves, and supports.
- Remove top soil/gravel, backfill, and remove barrier wall foundation.

DEVELOPMENT OF COST FACTORS

Cost factors have been developed to compute the net salvage value of the demolition of the Martin Plant. The net salvage value of the demolition is the net of: the removal and disposal cost and the salvage value of equipment and steel not disposed of. These factors provide a unit cost or value for removal, disposal and salvage of a given unit of measure of the component materials of which a power plant is constructed. The assumption is that the cost or value per unit of a given component can be multiplied by the quantity of that component in the plant to calculate a total cost or value for removal, disposal, or salvage of that component.

REMOVAL COST FACTORS

The removal cost factors developed for this study have two elements: a burdened labor rate and productivity factor. The burdened labor rate multiplied by the productivity factor yields the removal cost factor. The labor rates used in this study were developed by FPL's Power Generation Services Department (PGS). The rate per man-hour of a crew consists of six journeymen laborers, one laborer foreman and one heavy equipment operator - a typical crew for demolition work. The rate includes the cost per man-hour of a Trojan 3500Z front end loader with a four yard bucket, and an American 9310, two hundred twenty-five ton crane with a two hundred foot boom. The productivity factor employed, i.e., the number of man-hours required to remove a given unit of measure of concrete, were developed by an engineering consulting firm. These factors are assumed valid for purposes of this study.

Labor Rate

Labor rates are based on Means Union wages for 1998. The rates are adjusted to reflect non-union crews and factored to the geographical location of the site. Wage rates are based on a 40 hour week.

Labor	\$22.79	X	6	=	\$136.75
Foreman	\$29.28	X	1	=	\$29.28
Heavy Equipment Operator	\$27.30	X	1	=	\$27.30
Total Cost per hour of 8 man crew					<u>\$193.33</u>
Cost per man hour			\$193.33 / 8 =		<u>\$24.17</u>

Equipment Rate

The equipment rate is based on the following equipment:

Excavator					14,925.30
Front End Loader					5,095.73
Cutting Equipment					200.00
Total per month					<u>20,221.03</u>
20,221.03	/	176	hours per month =		114.89
Cost per man hour			\$114.89 / 8 =		\$14.36
Plus: amount for small tools					0.80
Total Cost per man hour					<u>\$15.16</u>

MARTIN DISMANTLEMENT STUDY

Equipment & Labor Summary

Labor	\$24.17
Equipment	15.16
Total	<u>\$39.33</u>
Rounded	<u>\$39.00</u>
For Concrete demolition add \$4.00 per hour additional equipment charge.	<u>\$43.00</u>

The Removal Cost Factor is the product of the productivity factor for removal of a particular component multiplied by the total burdened hourly labor rate. The removal cost factors for all materials to be removed from FPL's sites are as follows:

<u>Components</u>	<u>Hourly Rate</u>	<u>Productivity Factor</u>	<u>Removal Factor</u>
Extra Heavy Steel (1)	\$39.00	2.50 MH / Ton	\$97.50 / Ton
Heavy Steel (2)	\$39.00	3.30 MH / Ton	\$128.70 / Ton
General Steel	\$39.00	4.40 MH / Ton	\$171.60 / Ton
Light Steel	\$39.00	7.10 MH / Ton	\$276.90 / Ton
Concrete	\$43.00	0.48 MH / CY	\$20.64 / CY
Reinforced Concrete	\$43.00	1.20 MH / CY	\$51.60 / CY
Copper-Elect. Cable & Generator Leads &	\$39.00	12.00 MH / Ton	\$468.00 / Ton
Copper - Generator			\$400.00 / Ton
Copper - Transformer			\$300.00 / Ton
General Insulation	\$39.00	1.00 MH / CY	\$39.00 / CY
Inground Pipe-Metal(3)	\$39.00	6.00 MH / Ton	\$234.00 / Ton
Concrete Pipe (collapsed)	\$43.00	4.60 MH / Ton	\$197.80 / Ton

(1) Includes turbine generator.

(2) Includes parts of the steam generator, pipe larger than 8 inches.

(3) Includes cost to backfill the trenches.

DISPOSAL COST FACTORS

Three cost factors were developed to compute the cost of disposal of non-hazardous wastes at the Martin County Landfill. Concrete and calcium silicated insulation are non-hazardous wastes. The tipping fee of \$38.60/ton was obtained from the Landfill. The charge for dumpsters, \$157 per haul (including driver), was provided by Waste Management Services, Inc.

Cost factors were also developed to compute the cost of removal and disposal of oil tanks, including the cost of related soil remediation. Such costs are computed for each tank in FPL's system, and are located appropriately in the detailed spreadsheet.

Note: For Inground Piping that is abandoned in place, the disposal factor is:

\$0

Concrete

One cubic yard of concrete in place weighs 3,950 pounds. One cubic yard becomes 1.3 cubic yards after demolition. Each load will contain 15.38 cubic yards (20 cu. yds./1.3) of in place concrete. 15.38 cubic yards weighs 61,000 pounds or 30.50 tons.

Truck Cost	\$157.00 / haul	X	1 haul	=	157.00
Tipping Fees	\$38.60 / ton	X	30.5 tons	=	1,177.30
Total Cost per round Trip					<u>1,334.30</u>

Cost per Cubic Yard	\$1,334.30 / 15.38 cubic yards =	\$86.76
Plus 10% contractor profit		8.68
Total Cost per Cubic Yard		<u>\$95.43</u>

Rounded Cost per Cubic Yard	<u>\$95.00</u>
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Insulation - Calcium Silicate (Non-Hazardous)

A trailer with a 20 cubic yard capacity is used for insulation as well as for concrete. For purposes of this computation the dumpster is assumed to be 90% full (although the tipping fee is based on the assumption of 100% full truck - i.e., the weight to volume conversion uses 20 cubic yards - the full volume of the dumpster). A cubic yard of calcium silicate insulation weighs 121.5 pounds or .060750 tons. 20 cubic yards times .060750 tons/cubic yard = 1.21 tons.

Truck Cost	\$157.00 / haul	X	1 haul	=	157.00
Tipping Fees	\$38.60 / ton	X	1.21 tons	=	46.71
Total Cost per round Trip					<u>203.71</u>

Cost per Cubic Yard	\$203.71 / 18 cubic yards =	\$11.32
Plus 10% contractor profit		1.13
Total Cost per Cubic Yard		<u>\$12.45</u>

Rounded Cost per Cubic Yard	<u>\$12.00</u>
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SALVAGE VALUE FACTORS

The salvage value factors, presented in dollars per ton, were provided by FPL's Investment Recovery Department. The list covers all salvageable materials recovered from FPL sites.

Iron & Steel	\$50 / ton
Stainless Steel	\$300 / ton
Aluminum (Sheet Metal)	\$540 / ton
Wire & Cable:	
- Insulated Copper	\$760 / ton
- Insulated Aluminum	\$600 / ton
Copper	\$710 / ton
Nickel Alloys	
- 70/30 Cupro-Nickel	\$1,490 / ton
- 80/20 Cupro-Nickel	\$1,250 / ton
- Monel	\$2,340 / ton
Admiralty Brass	\$540 / ton
Aluminum Brass	\$140 / ton
Titanium	\$1,320 / ton
Concrete	\$0 /CY

OTHER SITE COSTS

Site Management Expenses

Site management expenses refer to FPL's management costs and contractors' expenses associated with the dismantlement project. The cost factors provided by FPL's Power Generation Services Department (PGS) are: \$13,901 per month for FPL's expenses, both office and site, and \$17,923 per month for site indirect costs (contractors' expenses). These expenses are to be incurred over a 24 month dismantlement period for Martin plant. FPL's management costs include those for administration, engineering, permit costs and various other costs. Contractors' expenses include field management, supervision, security and other costs.

Site Management Expenses per month	\$31,824
Number of months	24.00
Total Site Mangement Expenses	<u>\$763,776</u>

Intake & Discharge Backfill

FPL's PGS Department developed this cost factor on the basis of a typical such structure for FPL's production plants. The assumption is that a volume of 1,600 cubic yards for the intake and 1,120 cubic yards for the discharge will need to be filled. The cost to back-fill the intake is \$28,021 the cost for the discharge is \$22,237. Total back-fill cost is computed as follows:

	<u>Cost/Structure</u>	<u>Quantity</u>	<u>Totals</u>
Intake	\$28,021	2	\$56,042 *
Discharge	\$22,237	2	\$44,474
			<u>\$100,516</u>

* Martin has a larger than average Intake, so for costing purposes it is multiplied by 2.

MARTIN DISMANTLEMENT STUDY

Grading and Seeding

This cost refers to the restoration of the dismantled area to a green field area. The land is filled with sand, spread with topsoil and then seeded. The cost factor provided by PGS is \$40,229 per acre. The acreage was determined for each site by reviewing engineering drawings to determine the areas requiring this effort. Assumptions underlying this cost factor include 2,000 cubic yards per acre to be backfilled and 968 cubic yards per acre of topsoil to be spread and seeded.

Martin Acreage to be graded and seeded	101.30
Cost Factor	<u>\$40,229</u>
Total Grading and Seeding Expense	<u><u>\$4,075,198</u></u>

MARTIN DISMANTLEMENT STUDY - UNITS 1, 2 & COMMON

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
MARTIN COMMON										
FERC Account 311										
Improvements to Site										
Structures										
Walks, Yard Paving, Parking (asphalt/concrete)	CY	1	1,432.80	1,432.80	20.64	29,573	95.00	136,116	0.00	0
Yard Lighting - Copper Wiring (72,985 lf)	TN	1	2.81	2.81	468.00	1,315	0.00	0	760.00	2,136
Yard Lighting - PVC Conduit (20,269 lf)	TN	1	5.57	5.57	234.00	1,304	95.00	530	0.00	0
Railroad Rails - Steel (17,060 lf)	TN	1	565.00	565.00	276.90	156,449	0.00	0	50.00	28,250
Railroad Cross-ties	TN	1	853.00	853.00	20.64	17,606	95.00	81,035	0.00	0
Light Poles (35') - Concrete (126 total)	CY	1	15.95	15.95	20.64	329	95.00	1,515	0.00	0
Subtotal						206,576		219,196		30,386
Domestic Water Supply										
Piping, Vlvs Under 4" - Steel	TN	1	41.88	41.88	276.90	11,598	0.00	0	50.00	2,094
Subtotal						11,598		0		2,094
Storm & Sanitary Sewer System										
Oil Separator Tank - 4,000 gal (fiberglass)	TN	2	4.20	8.39	276.90	2,323	0.00	0	0.00	0
Oil Separator Pump/ Motor	TN	2	1.00	2.00	276.90	554	0.00	0	50.00	100
Water Collecting Pond - Reinforced Concrete	CY	1	594.00	594.00	51.60	30,650	95.00	56,430	0.00	0
Sewage Treatment - Steel Tanks & Piping	TN	1	30.97	30.97	171.60	5,314	0.00	0	50.00	1,549
Sewage Treatment Foundation - Reinf Concrete	CY	1	23.00	23.00	51.60	1,187	0.00	0	0.00	0
Septic Tank - 750 gal (concrete)	TN	1	1.32	1.32	197.80	261	0.00	0	0.00	0
Catch Basins & Manholes - Reinforced Concrete	CY	1	692.00	692.00	51.60	35,707	95.00	65,740	0.00	0
Subtotal						75,997		122,170		1,649
Yard Fire Protection System										
Motor-driven Fire Pump/ Motor	TN	1	3.55	3.55	171.60	609	0.00	0	50.00	178
Fire Pump/ Motor Foundation - Reinf Conc	CY	1	19.00	19.00	51.60	980	95.00	1,805	0.00	0
Engine-driven Fire Pump/ Motor	TN	1	1.21	1.21	171.60	208	0.00	0	50.00	61
Subtotal						1,797		1,805		238
Circulating and Service Water System										
Intake Structure										
Structures/ Foundations - Reinforced Concrete	CY	1	4,799.00	4,799.00	51.60	247,628	95.00	455,905	0.00	0
Structural Steel	TN	1	19.00	19.00	128.70	2,445	0.00	0	50.00	950
Handrailing, Grating, Checkerplate - Steel	TN	1	1.75	1.75	171.60	300	0.00	0	50.00	88
Cofferdam - Steel	TN	1	156.67	156.67	171.60	26,885	0.00	0	50.00	7,834
40-Ton Gantry Crane	TN	1	91.00	91.00	128.70	11,712	0.00	0	50.00	4,550
40-Ton Gantry Crane Track Rail - Steel	TN	1	4.65	4.65	276.90	1,288	0.00	0	50.00	233
Stop Logs - Reinforced Concrete	CY	1	47.11	47.11	51.60	2,431	95.00	4,475	0.00	0
Conduit - Aluminum	TN	1	1.49	1.49	276.90	413	0.00	0	600.00	896
Subtotal						293,102		460,380		14,549
Service Water System										
Water Treatment Area Foundations - Reinf Conc	CY	1	1,414.00	1,414.00	51.60	72,962	95.00	134,330	0.00	0
Structural Steel	TN	1	31.00	31.00	128.70	3,990	0.00	0	50.00	1,550
Well Water Pump w/ motor	TN	3	2.27	6.81	171.60	1,169	0.00	0	50.00	341
Demineralizer w/ 7.5 hp motor	TN	2	1.18	2.36	171.60	405	0.00	0	50.00	118
Demineralizer w/ 15 hp motor	TN	2	1.68	3.36	171.60	576	0.00	0	50.00	168

MARTIN DISMANTLEMENT STUDY - UNITS 1, 2 & COMMON

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Conveyer System w/ 2 hp motor	TN	1	2.50	2.50	171.60	429	0.00	0	50.00	125
Coagulator Tank w/ motor	TN	1	19.90	19.90	128.70	2,561	0.00	0	50.00	995
Lime Tank & Mixer - Steel	TN	1	1.22	1.22	171.60	209	0.00	0	50.00	61
Alum Tank & Mixer - Steel	TN	1	1.62	1.62	171.60	278	0.00	0	50.00	81
Clearwell Tank - Steel	TN	1	25.00	25.00	128.70	3,218	0.00	0	50.00	1,250
Acid Feed Tank - Steel	TN	1	7.50	7.50	171.60	1,287	0.00	0	50.00	375
Sand Filter Tank - Steel	TN	4	12.60	50.40	128.70	6,486	0.00	0	50.00	2,520
Carbon Filter Tank - Steel	TN	1	1.79	1.79	171.60	306	0.00	0	50.00	89
Conduit - Aluminum	TN	1	1.75	1.75	276.90	484	0.00	0	600.00	1,048
Subtotal						94,360		134,330		8,721
Raw Water Make-up System										
Raw Water Storage Tank - 500,000 gal	TN	1	55.00	55.00	128.70	7,079	0.00	0	50.00	2,750
Piping, Vlvs 4" to 8" - Steel	TN	1	3.67	3.67	276.90	1,015	0.00	0	50.00	183
Piping, Vlvs	TN	1	33.94	33.94	234.00	7,943	0.00	0	50.00	1,697
Subtotal						16,037		0		4,631
Open Cooling Water System										
36" Piping/ Misc. Vlvs - Iron	TN	1	4.82	4.82	234.00	1,127	0.00	0	50.00	241
Subtotal						1,127		0		241
Other Service Water System										
Service Water Pump w/ 125 hp motor	TN	2	1.32	2.64	171.60	453	0.00	0	50.00	132
Treated Water Storage Tank - 500,000 gal	TN	1	55.00	55.00	128.70	7,079	0.00	0	50.00	2,750
Potable Water Storage Tank - 14,000 gal	TN	1	5.50	5.50	171.60	944	0.00	0	50.00	275
Piping, Vlvs Under 4" - Steel	TN	1	62.26	62.26	276.90	17,239	0.00	0	50.00	3,113
Piping, Vlvs 4" to 8" - Steel	TN	1	58.14	58.14	171.60	9,977	0.00	0	50.00	2,907
Subtotal						35,692		0		9,177
Neutralization Basin										
Acid Retention Basin - Reinforced Concrete	CY	1	584.00	584.00	51.60	30,134	95.00	55,480	0.00	0
Recovered Service Water Pump w/ motor	TN	2	2.25	4.50	171.60	772	0.00	0	50.00	225
Recovered Service Water Basin - Reinf Conc	CY	1	151.00	151.00	51.60	7,792	95.00	14,345	0.00	0
Waste Water Treatment Control Panel	TN	1	1.55	1.55	276.90	429	0.00	0	50.00	78
Piping, Vlvs - Fiberglass	CY	1	16.26	16.26	20.64	336	95.00	1,544	0.00	0
Subtotal						39,463		71,369		303
Discharge Structure										
Circ Water Discharge Sluice Gate - Iron	TN	2	5.50	11.00	171.60	1,888	0.00	0	50.00	550
Structure - Reinforced Concrete	CY	1	739.00	739.00	51.60	38,132	95.00	70,205	0.00	0
Subtotal						40,020		70,205		550
Station Structures										
Calibration Shop - Concrete Block 2,000 sf	CY	1	31.02	31.02	20.64	640	95.00	2,947	0.00	0
Acid Lift Station Pump w/ 100 hp motor	TN	2	4.80	9.60	171.60	1,647	0.00	0	50.00	480
Acid Lift Station Pump w/ 100 hp motor	TN	2	4.59	9.18	171.60	1,574	0.00	0	50.00	459
90-Ton Gantry Crane w/ 30-Ton Auxiliary Hoist	TN	1	178.90	178.90	128.70	23,024	0.00	0	50.00	8,945
90-Ton Gantry Crane Track Rail - Steel	TN	1	20.00	20.00	276.90	5,538	0.00	0	50.00	1,000
Control Bldg Foundation - Reinforced Concrete	CY	1	398.00	398.00	51.60	20,537	95.00	37,810	0.00	0
Control Bldg - Aluminum Siding 20,364 sf	TN	1	15.27	15.27	276.90	4,228	0.00	0	540.00	8,246

MARTIN DISMANTLEMENT STUDY - UNITS 1, 2 & COMMON

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Control Bldg - Concrete Block 6,820 sf	CY	1	105.77	105.77	20.64	2,183	95.00	10,048	0.00	0
Control Bldg - Aluminum Sheet Metal 8,100 sf	TN	1	12.15	12.15	276.90	3,364	0.00	0	540.00	6,561
Control Bldg - Built-up Roofing 2,850 sf	CY	1	8.55	8.55	20.64	176	95.00	812	0.00	0
Control Bldg Phone Eqpmnt Room - Struc Steel	TN	1	7.60	7.60	128.70	978	0.00	0	50.00	380
Personnel Elevator - 2,000 lb capacity	TN	1	6.36	6.36	171.60	1,092	0.00	0	50.00	318
Freight Elevator - 10,000 lb capacity	TN	1	9.00	9.00	171.60	1,544	0.00	0	50.00	450
Freight Elevator - Structural Steel	TN	1	19.65	19.65	128.70	2,529	0.00	0	50.00	983
Subtotal						69,056		51,617		27,821
Fuel and Ash Structures										
Ash Disposal Basin - Reinforced Concrete	CY	1	2,852.00	2,852.00	51.60	147,163	95.00	270,940	0.00	0
Ash Disposal Basin - pH Analyzer	TN	1	2.00	2.00	276.90	554	0.00	0	50.00	100
Ash Disposal Basin Guard Rails 750 lf	TN	1	1.88	1.88	171.60	323	0.00	0	50.00	94
Fuel Oil Transfer Pump w/ 100 hp motor	TN	3	3.20	9.60	171.60	1,647	0.00	0	50.00	480
F/O Transfer Pump Basket Strainer - Iron	TN	3	1.16	3.47	171.60	596	0.00	0	50.00	174
F/O Transfer Pump/Mtr Foundation - Reinf Conc	CY	1	185.00	185.00	51.60	9,546	95.00	17,575	0.00	0
Fuel Oil Transfer Heater - Steel	TN	4	9.23	36.92	171.60	6,335	0.00	0	50.00	1,846
Day/ Light Oil Tank / Dike - Reinf Conc	CY	1	635.00	635.00	51.60	32,766	95.00	60,325	0.00	0
Day/ Light Oil Tank Fire Wall - Reinf Conc	CY	1	477.00	477.00	51.60	24,613	95.00	45,315	0.00	0
Piping, Vlvs Under 4" - Steel	TN	1	19.96	19.96	276.90	5,526	0.00	0	50.00	998
Piping, Vlvs 4" to 8" - Steel	TN	1	4.84	4.84	171.60	831	0.00	0	50.00	242
Piping, Vlvs Over 8" - Steel	TN	1	217.10	217.10	128.70	27,941	0.00	0	50.00	10,855
Piping Supports - Reinforced Concrete	CY	1	966.00	966.00	51.60	49,846	95.00	91,770	0.00	0
Pipe Sleeves & Anchor Plates - Steel	TN	1	10.00	10.00	276.90	2,769	0.00	0	50.00	500
Piping 4" to 8" - Iron	TN	1	6.75	6.75	234.00	1,580	0.00	0	50.00	338
Piping Over 8" - Iron	TN	1	1.45	1.45	234.00	339	0.00	0	50.00	73
Insulation	CY	1	3.96	3.96	39.00	154	12.00	48	0.00	0
Subtotal						312,529		485,973		15,699
Service Building										
Superstructure - Reinforced Concrete	CY	1	440.00	440.00	51.60	22,704	95.00	41,800	0.00	0
Foundation - Reinforced Concrete	CY	1	840.00	840.00	51.60	43,344	95.00	79,800	0.00	0
Structural Steel	TN	1	30.00	30.00	128.70	3,861	0.00	0	50.00	1,500
Walls - Concrete Block 31,877 sf	CY	1	494.39	494.39	20.64	10,204	95.00	46,967	0.00	0
Interior Partitions - Conc Block 8,875 sf	CY	1	137.64	137.64	20.64	2,841	95.00	13,076	0.00	0
Pre-cast Floor Slabs - Concrete	CY	1	370.26	370.26	20.64	7,642	95.00	35,175	0.00	0
Pre-cast Roof Slabs - Concrete	CY	1	422.82	422.82	20.64	8,727	95.00	40,168	0.00	0
Built-up Roofing	TN	1	72.37	72.37	20.64	1,494	95.00	6,875	0.00	0
Air Conditioning Unit - 240,000 BTU	TN	1	2.25	2.25	171.60	386	0.00	0	50.00	113
Air Conditioning Unit - 167,000 BTU	TN	1	2.20	2.20	171.60	378	0.00	0	50.00	110
Air Conditioning Unit - 142,000 BTU	TN	1	1.00	1.00	276.90	277	0.00	0	50.00	50
5-Ton Machine Shop Bridge Crane	TN	1	2.37	2.37	171.60	407	0.00	0	50.00	119
Conduit - Aluminum	TN	1	1.78	1.78	276.90	493	0.00	0	600.00	1,069
Piping, Vlvs Under 4" - Steel	TN	1	12.92	12.92	276.90	3,578	0.00	0	50.00	646
Piping, Vlvs 4" to 8" - Steel	TN	1	2.50	2.50	171.60	428	0.00	0	50.00	125
Piping 4" to 8" - Iron	TN	1	9.80	9.80	234.00	2,292	0.00	0	50.00	490
Subtotal						109,056		263,861		4,221
Other Buildings										
Foundations - Reinforced Concrete	CY	1	353.00	353.00	51.60	18,215	95.00	33,535	0.00	0

MARTIN DISMANTLEMENT STUDY - UNITS 1, 2 & COMMON

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value	
Walls - Concrete Block	8,162 sf	CY	1	126.59	126.59	20.64	2,613	95.00	12,028	0.00	0
Pre-cast Roofs - Concrete		CY	1	60.48	60.48	20.64	1,248	95.00	5,746	0.00	0
Built-up Roofing		CY	1	11.30	11.30	20.64	233	95.00	1,074	0.00	0
Roof Supports - Steel (Intake Chlorotr Bldg)		TN	1	1.86	1.86	171.60	319	0.00	0	50.00	93
Subtotal							22,628		52,380		93
Warehouses											
Foundations - Reinforced Concrete		CY	1	4,529.00	4,529.00	51.60	233,696	95.00	430,255	0.00	0
Structural Steel		TN	1	469.50	469.50	128.70	60,425	0.00	0	50.00	23,475
Siding/ Roofing - Steel		TN	1	121.07	121.07	276.90	33,524	0.00	0	50.00	6,054
Fencing - Aluminum		TN	1	2.00	2.00	276.90	554	0.00	0	540.00	1,080
Subtotal							328,199		430,255		30,609
Total Account 311						1,657,238		2,363,541		150,979	
FERC Account 312											
Boiler Plant Service Equipment											
Feed Water System											
Strong Acid Cation Exchanger - Steel		TN	2	35.25	70.50	128.70	9,073	0.00	0	50.00	3,525
Weak Base Anion Exchanger - Steel		TN	2	19.50	39.00	128.70	5,019	0.00	0	50.00	1,950
Strong Base Anion Exchanger - Steel		TN	3	10.90	32.70	128.70	4,208	0.00	0	50.00	1,635
Mixed Bed Ion Exchanger - Steel		TN	2	11.68	23.35	128.70	3,005	0.00	0	50.00	1,168
Air Compressor - 308 cfm w/ 40 hp motor		TN	1	1.00	1.00	276.90	277	0.00	0	50.00	50
Acid Storage Tank - Steel		TN	1	48.50	48.50	128.70	6,242	0.00	0	50.00	2,425
Caustic Storage Tank - Steel		TN	1	7.50	7.50	171.60	1,287	0.00	0	50.00	375
Brine Measuring Tank - Steel		TN	1	3.66	3.66	171.60	628	0.00	0	50.00	183
Brine Recirculation Control Panel - Steel		TN	1	5.16	5.16	276.90	1,430	0.00	0	50.00	258
Subtotal							31,170		0		11,569
Boiler Wash System											
Caustic Wash Service Tank/ Agitator - Steel		TN	1	3.52	3.52	171.60	603	0.00	0	50.00	176
Caustic Wash Mixing Tank/ Agitator - Steel		TN	1	2.65	2.65	171.60	455	0.00	0	50.00	133
Lime Slurry Mixing Tank/ Agitator - Steel		TN	1	1.93	1.93	171.60	331	0.00	0	50.00	96
Piping, Vlvs Under 4" - Steel		TN	1	55.72	55.72	276.90	15,430	0.00	0	50.00	2,786
Subtotal							16,818		0		3,191
Total Account 312						47,988		0		14,759	
FERC Account 315											
Accessory Electrical Equipment											
Power Conversion Equipment											
Start-up Transformer (6.9kva)		TN	1	59.30	59.30	276.90	16,420	0.00	0	50.00	2,965
Start-up Switchgear (6.9kva)		TN	1	13.80	13.80	276.90	3,821	0.00	0	50.00	690
6,900V Non-segregated Phase Bus		TN	1	6.78	6.78	276.90	1,877	0.00	0	710.00	4,814
Start-up Transformer Foundation - Reinf Conc		CY	1	133.00	133.00	51.60	6,863	95.00	12,635	0.00	0
Station Svc Trnsfrmr - 2,500 kva (oil-cooled)		TN	1	7.80	7.80	276.90	2,160	0.00	0	50.00	390
480V Motor Control Center		TN	1	3.50	3.50	276.90	969	0.00	0	50.00	175
2400V Switchgear		TN	1	7.57	7.57	276.90	2,095	0.00	0	50.00	378
Neutral Grounding Transformer - Steel		TN	2	4.00	8.00	276.90	2,215	0.00	0	50.00	400
Emergency Diesel Generator & Accessories		TN	1	11.83	11.83	171.60	2,030	0.00	0	50.00	591

MARTIN DISMANTLEMENT STUDY - UNITS 1, 2 & COMMON

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
480V Emergency Diesel Load Center/ Switchgear	TN	1	3.70	3.70	276.90	1,025	0.00	0	50.00	185
Underground Conduit, Ducts - Reinf Concrete	CY	1	690.00	690.00	197.80	136,482	0.00	0	0.00	0
Conduit (underground) - Steel	TN	1	47.70	47.70	234.00	11,162	0.00	0	50.00	2,385
Conduit (exposed) - Steel	TN	1	11.12	11.12	276.90	3,080	0.00	0	50.00	556
Copper Wiring - Insulated	TN	1	9.44	9.44	468.00	4,419	0.00	0	760.00	7,177
Total Account 315						<u>194,617</u>		<u>12,635</u>		<u>20,706</u>
FERC Account 316										
Miscellaneous Power Plant Equipment										
Station Air Compressor (880 CFM) w/ motor	TN	1	4.08	4.08	171.60	701	0.00	0	50.00	204
Total Account 316						<u>701</u>		<u>0</u>		<u>204</u>
TOTAL MARTIN COMMON						<u>1,900,544</u>		<u>2,376,176</u>		<u>186,649</u>
MARTIN UNITS 1 & 2										
FERC Account 311										
Improvements to Site										
Yard Piping Bridge										
Structural Steel	TN	1	164.00	164.00	128.70	21,107	0.00	0	50.00	8,200
Subtotal						<u>21,107</u>		<u>0</u>		<u>8,200</u>
Storm & Sanitary Sewer System										
Piping, Vlvs 4" to 8" - Steel	TN	1	13.56	13.56	171.60	2,328	0.00	0	50.00	678
Piping, Vlvs 4" to 8" - Iron	TN	1	95.71	95.71	234.00	22,396	0.00	0	50.00	4,786
Piping, Vlvs Over 8" - Iron	TN	1	71.64	71.64	234.00	16,764	0.00	0	50.00	3,582
Fiberglass Piping, Vlvs	TN	1	12.18	12.18	234.00	2,850	0.00	0	50.00	609
Piping Over 8" - Reinforced Concrete	TN	1	300.08	300.08	197.80	59,356	0.00	0	0.00	0
Subtotal						<u>103,693</u>		<u>0</u>		<u>9,655</u>
Yard Fire Protection System										
Piping, Vlvs 4" & Under - Steel	TN	1	5.02	5.02	276.90	1,389	0.00	0	50.00	251
Piping, Vlvs 4" to 8" - Steel	TN	1	6.00	6.00	171.60	1,030	0.00	0	50.00	300
Piping 4" to 8" - Iron	TN	1	2.16	2.16	234.00	505	0.00	0	50.00	108
Piping Over 8" - Iron	TN	1	132.39	132.39	234.00	30,980	0.00	0	50.00	6,620
Subtotal						<u>33,904</u>		<u>0</u>		<u>7,279</u>
Circulating and Service Water System										
Open Cooling Water System										
Intake Cooling Water Pump w/ motor	TN	2	6.90	27.60	171.60	4,736	0.00	0	50.00	1,380
Pump Basket Strainer (30") - Steel	TN	2	3.99	15.95	171.60	2,737	0.00	0	50.00	798
36" Piping - Reinforced Concrete	TN	1	1,034.91	2,069.82	197.80	409,410	0.00	0	0.00	0
Piping, Vlvs Under 4" - Steel	TN	1	58.27	116.54	276.90	32,271	0.00	0	50.00	5,827
Piping, Vlvs 4" to 8" - Steel	TN	1	35.23	70.45	171.60	12,089	0.00	0	50.00	3,523
Subtotal						<u>461,243</u>		<u>0</u>		<u>11,527</u>
Intake Structure Equipment & Piping										
Traveling Water Screen - Steel	TN	4	18.03	144.25	128.70	18,565	0.00	0	50.00	7,213
Screen Wash Pump w/ motor	TN	4	2.13	17.00	171.60	2,917	0.00	0	50.00	850
Trash Rake - Aluminum	TN	4	2.00	16.00	171.60	2,746	0.00	0	540.00	8,640
5-ton Electric Hoist	TN	1	1.50	3.00	171.60	515	0.00	0	50.00	150

MARTIN DISMANTLEMENT STUDY - UNITS 1, 2 & COMMON

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Intake Piping (66") - Reinforced Concrete	CY	1	5,474.10	5,474.10	197.80	1,082,777	0.00	0	0.00	0
Subtotal						1,107,520		0		16,853
Discharge Piping										
Discharge Piping (66") - Reinforced Concrete	CY	1	615.26	615.26	197.80	121,698	0.00	0	0.00	0
Discharge Piping (114") - Reinforced Concrete	CY	1	2,764.80	2,764.80	197.80	546,877	0.00	0	0.00	0
Subtotal						668,575		0		0
Station Structures										
Spread Footings - Reinforced Concrete	CY	1	13,286.00	13,286.00	51.60	685,558	95.00	1,262,170	0.00	0
Footings, Piers & Grade Beams - Reinf Conc	CY	1	3,909.00	3,909.00	51.60	201,704	95.00	371,355	0.00	0
Ground Floor Slabs - Reinforced Concrete	CY	1	5,207.00	5,207.00	51.60	268,681	95.00	494,665	0.00	0
Turbine Generator Building - Structural Steel	TN	1	892.00	892.00	128.70	114,800	0.00	0	50.00	44,600
T-G Bldg - Stairways & Handrailing 4,377 lf	TN	1	60.16	60.16	171.60	10,324	0.00	0	50.00	3,008
Elevated Slabs - Reinforced Concrete	CY	1	1,043.00	2,086.00	51.60	107,638	95.00	198,170	0.00	0
Grating & Floor Plating - Steel 7,146 sf	TN	1	39.03	78.06	171.60	13,395	0.00	0	50.00	3,903
Lift Station Structure/ Fndation - Reinf Conc	CY	1	870.00	870.00	51.60	44,892	95.00	82,650	0.00	0
Lift Station Pump w/ 40 hp motor	TN	2	1.30	5.20	171.60	892	0.00	0	50.00	260
Lift Station Pump w/ 125 hp motor	TN	2	2.42	9.68	171.60	1,661	0.00	0	50.00	484
Conduit - Steel	TN	1	79.01	79.01	276.90	21,878	0.00	0	50.00	3,950
Insulated Copper Wiring	TN	1	2.90	2.90	468.00	1,358	0.00	0	760.00	2,205
Piping, Vlvs Under 4" - Steel	TN	1	2.98	2.98	276.90	824	0.00	0	50.00	149
Piping, Vlvs 4" to 8" - Steel	TN	1	30.87	30.87	171.60	5,297	0.00	0	50.00	1,543
Piping, Vlvs Over 8" - Steel	TN	1	3.90	3.90	128.70	501	0.00	0	50.00	195
Piping, Vlvs Under 4" - Iron	TN	1	1.34	1.34	234.00	313	0.00	0	50.00	67
Piping, Vlvs 4" to 8" - Iron	TN	1	44.50	44.50	234.00	10,413	0.00	0	50.00	2,225
Piping, Vlvs Over 8" - Iron	TN	1	34.98	34.98	234.00	8,185	0.00	0	50.00	1,749
15" Piping - Reinforced Concrete	CY	1	15.05	15.05	197.80	2,977	0.00	0	0.00	0
Subtotal						1,501,292		2,409,010		64,339
Total Account 311						3,897,334		2,409,010		117,852
FERC Account 312										
Boiler Plant Service Equipment										
Fuel Oil Day Tank - Steel 24,000 bbl	TN	2	105.00	420.00	n/a	25,000	n/a	0	50.00	21,000
Fuel Oil Day Tank - Cleaning	EA	2			n/a	0	n/a	23,818	0.00	0
Fuel Oil Day Tank - Steel - Foundation	EA	2			n/a	0	n/a	99,242	0.00	0
Fuel Oil Day Tank - Soil Remediation	EA	2			n/a	0	n/a	40,716	0.00	0
Fuel Oil Burner Pump Heater - Steel	TN	1	7.08	14.16	171.60	2,430	0.00	0	50.00	708
Light Oil Tank - Steel 2,000 bbl	TN	1	16.00	32.00	n/a	5,000	0.00	0	50.00	1,600
Light Oil Tank - Steel - Cleaning Cost					n/a	0	n/a	4,480	50.00	0
Light Oil Tank - Steel - Foundation					n/a	0	n/a	5,513	50.00	0
Light Oil Tank - Steel - Soil Remediation					n/a	0	n/a	2,262	50.00	0
Burner Fuel Oil Heater - Steel	TN	6	3.92	46.98	171.60	8,062	0.00	0	50.00	2,349
Fuel Oil Burner Pump/ Motor	TN	3	2.42	14.52	171.60	2,492	0.00	0	50.00	726
Basket Strainer (18") - Steel	TN	2	1.16	4.63	171.60	795	0.00	0	50.00	232
Fuel Oil Burner Booster Pump w/ motor	TN	2	4.74	18.96	171.60	3,254	0.00	0	50.00	948
Forced Draft Fan	TN	4	20.30	162.40	128.70	20,901	0.00	0	50.00	8,120
Forced Draft Fan Motor	TN	4	13.26	106.04	128.70	13,647	0.00	0	50.00	5,302
Forced Draft Fan Hydraulic Coupling	TN	4	7.75	62.00	171.60	10,639	0.00	0	50.00	3,100

MARTIN DISMANTLEMENT STUDY - UNITS 1, 2 & COMMON

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Gas Induction Fan	TN	2	36.50	146.00	128.70	18,790	0.00	0	50.00	7,300
Gas Induction Fan Motor	TN	2	12.70	50.80	128.70	6,538	0.00	0	50.00	2,540
Gas Induction Fan Hydraulic Coupling	TN	2	9.25	37.00	171.60	6,349	0.00	0	50.00	1,850
F/D Fan & G/I Fan Foundations - Reinf Conc	CY	1	2,665.00	2,665.00	51.60	137,514	95.00	253,175	0.00	0
Breeching Foundations - Reinforced Concrete	CY	1	130.00	260.00	51.60	13,416	95.00	24,700	0.00	0
Steel Support - Fan Removal	TN	1	136.00	272.00	128.70	35,006	0.00	0	50.00	13,600
Ductwork - Steel (53,761 sf x 1/4")	TN	1	274.18	548.37	171.60	94,100	0.00	0	50.00	27,418
Forced Draft Fan Hoist - 7 1/2 Ton	TN	2	1.35	5.40	171.60	927	0.00	0	50.00	270
Gas Induction Fan Hoist - 7 1/2 Ton	TN	2	1.19	4.76	171.60	817	0.00	0	50.00	238
Insulated Copper Wire	TN	1	4.17	8.34	468.00	3,903	0.00	0	760.00	6,338
Conduit - Aluminum	TN	1	19.90	39.81	276.90	11,023	0.00	0	600.00	23,885
Piping, Vlvs Under 4" - Steel	TN	1	122.18	122.18	276.90	33,833	0.00	0	50.00	6,109
Piping, Vlvs 4" to 8" - Steel	TN	1	80.37	80.37	171.60	13,791	0.00	0	50.00	4,018
Piping, Vlvs Over 8" - Steel	TN	1	118.31	118.31	128.70	15,227	0.00	0	50.00	5,916
Piping, Vlvs 4" to 8" - Iron	TN	1	39.50	39.50	234.00	9,242	0.00	0	50.00	1,975
Piping, Vlvs Over 8" - Iron	TN	1	66.35	66.35	234.00	15,525	0.00	0	50.00	3,317
Piping, Vlvs - Fiberglass	CY	1	1.75	1.75	20.64	36	12.00	21	0.00	0
15" Piping - Reinforced Concrete	CY	1	8.31	8.31	197.80	1,644	0.00	0	0.00	0
Piping Foundations - Reinforced Concrete	CY	1	214.00	214.00	51.60	11,042	95.00	20,330	0.00	0
Piping Insulation	CY	1	59.09	59.09	39.00	2,305	12.00	709	0.00	0
Subtotal						523,246		474,966		148,860
Boiler Plant Equipment										
Structural Steel	TN	1	6,214.00	6,214.00	128.70	799,742	0.00	0	50.00	310,700
Checkerplate - Steel 49,094 sf	TN	1	220.92	441.84	171.60	75,820	0.00	0	50.00	22,092
Handrailing - Steel 12,216 lf	TN	1	30.54	61.08	171.60	10,481	0.00	0	50.00	3,054
Steam Generation Unit - including:										
Steam Drum, Internals, Supports	TN	2	272.50	1,090.00	128.70	140,283	0.00	0	50.00	54,500
Burner Area & Windboxes	TN	1	81.50	163.00	128.70	20,978	0.00	0	50.00	8,150
Penthouse Area	TN	1	816.50	1,633.00	128.70	210,167	0.00	0	50.00	81,650
Heat Recovery Area	TN	1	293.00	586.00	128.70	75,418	0.00	0	50.00	29,300
Hopper Area	TN	1	13.50	27.00	128.70	3,475	0.00	0	50.00	1,350
Water Walls/ Headers	TN	1	1,753.00	3,506.00	128.70	451,222	0.00	0	50.00	175,300
Downcomers	TN	1	675.00	1,350.00	128.70	173,745	0.00	0	50.00	67,500
Air Preheater	TN	2	667.50	2,670.00	128.70	343,629	0.00	0	50.00	133,500
Steam Coil Air Heater	TN	1	15.24	30.48	128.70	3,923	0.00	0	50.00	1,524
Superheater	TN	1	1,001.00	2,002.00	128.70	257,657	0.00	0	50.00	100,100
Reheater	TN	1	942.50	1,885.00	128.70	242,600	0.00	0	50.00	94,250
Economizer	TN	1	731.50	1,463.00	128.70	188,288	0.00	0	50.00	73,150
Flues/ Ductwork	TN	1	689.50	1,379.00	171.60	236,636	0.00	0	50.00	68,950
Boiler Setting - Insulation	CY	1	2,090.40	4,180.80	51.60	215,729	12.00	50,170	0.00	0
Soot Blower	TN	32	1.95	124.80	171.60	21,416	0.00	0	50.00	6,240
Soot Blower Support Steel	TN	1	20.00	40.00	171.60	6,864	0.00	0	50.00	2,000
Safety/ Relief Valves (total)	TN	1	14.00	28.00	171.60	4,805	0.00	0	50.00	1,400
Safety/ Relief Valve Silencers	TN	1	35.00	70.00	171.60	12,012	0.00	0	50.00	3,500
Instrument Air Compressor w/ 100 hp motor	TN	2	6.30	25.20	171.60	4,324	0.00	0	50.00	1,260
Instrument Air Dryer	TN	1	2.00	4.00	171.60	686	0.00	0	50.00	200
Compressor Foundations - Reinforced Concrete	CY	1	15.00	15.00	51.60	774	95.00	1,425	0.00	0
Boiler Combustion Controls	TN	1	3.50	7.00	276.90	1,938	0.00	0	50.00	350

MARTIN DISMANTLEMENT STUDY - UNITS 1, 2 & COMMON

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Steam and Water Sampling System	TN	1	1.50	3.00	276.90	831	0.00	0	50.00	150
Air Preheater Cleaning & Washing System	TN	2	1.34	5.35	276.90	1,480	0.00	0	50.00	267
Piping, Vlvs Under 4" - Steel	TN	1	65.95	65.95	276.90	18,261	0.00	0	50.00	3,297
Piping, Vlvs 4" to 8" - Steel	TN	1	30.45	30.45	171.60	5,225	0.00	0	50.00	1,523
Piping, Vlvs Over 8" - Steel	TN	1	15.50	15.50	128.70	1,995	0.00	0	50.00	775
Piping Insulation	CY	1	8.34	8.34	39.00	325	12.00	100	0.00	0
Subtotal						3,530,731		51,695		1,246,032
Boiler Plant Auxiliaries										
Feedwater System										
#1 Low Pressure Feedwater Heater - Steel	TN	2	30.85	123.40	128.70	15,882	0.00	0	50.00	6,170
#2 Low Pressure Feedwater Heater - Steel	TN	2	21.95	87.80	128.70	11,300	0.00	0	50.00	4,390
#3 Low Pressure Feedwater Heater - Steel	TN	1	41.80	83.60	128.70	10,759	0.00	0	50.00	4,180
#4 Low Pressure Feedwater Heater - Steel	TN	1	42.80	85.60	128.70	11,017	0.00	0	50.00	4,280
#5 Low Pressure Feedwater Heater - Steel	TN	1	53.65	107.30	128.70	13,810	0.00	0	50.00	5,365
#6 High Pressure Feedwater Heater - Steel	TN	2	48.15	192.60	128.70	24,788	0.00	0	50.00	9,630
#7 High Pressure Feedwater Heater - Steel	TN	2	53.50	214.00	128.70	27,542	0.00	0	50.00	10,700
Condensate Recovery Drain Cooler - Steel	TN	1	1.00	2.00	276.90	554	0.00	0	50.00	100
Condensate Recovery Vent Condenser - Steel	TN	1	1.25	2.50	171.60	429	0.00	0	50.00	125
Boiler Feed Pump	TN	2	14.48	57.90	128.70	7,452	0.00	0	50.00	2,895
Boiler Feed Pump Motor	TN	2	13.03	52.10	128.70	6,705	0.00	0	50.00	2,605
Boiler Feed Pump Lube Oil Reservoir - Steel	TN	2	2.70	10.80	171.60	1,853	0.00	0	50.00	540
Boiler Feed Pump Lube Oil Batch Tank - Steel	TN	1	1.93	3.86	171.60	662	0.00	0	50.00	193
Boiler Feed Pump Lube Oil Conditioning Tank	TN	1	1.00	2.00	276.90	554	0.00	0	50.00	100
Heater Drain Pump/ Motor	TN	2	5.95	23.80	171.60	4,084	0.00	0	50.00	1,190
Heater Drain Pump Strainer - Steel	TN	2	1.00	4.00	276.90	1,108	0.00	0	50.00	200
Heater Drain Pmp/ Mtr Foundation - Reinf Conc	CY	1	10.00	20.00	51.60	1,032	95.00	1,900	0.00	0
Condensate Storage Tank - 400,000 gal	TN	1	48.00	96.00	128.70	12,355	0.00	0	50.00	4,800
Condensate Strg Tank Foundation - Reinf Conc	CY	1	274.00	274.00	51.60	14,138	95.00	26,030	0.00	0
Condensate Recovery Tank - Steel	TN	1	9.35	18.69	171.60	3,208	0.00	0	50.00	935
Condensate Rcvry Tank Foundation - Reinf Conc	CY	1	32.00	32.00	51.60	1,651	95.00	3,040	0.00	0
Condensate Recovery Flash Tank - Steel	TN	1	1.41	2.82	171.60	484	0.00	0	50.00	141
Blowdown Tank - Steel	TN	1	6.33	12.65	171.60	2,171	0.00	0	50.00	633
Blowdown Tank Silencer - Steel	TN	1	1.42	2.84	171.60	487	0.00	0	50.00	142
Blowdown Tank Foundation - Reinf Concrete	CY	1	10.00	20.00	51.60	1,032	95.00	1,900	0.00	0
Boiler Blowdown Heat Exchanger - Steel	TN	1	1.95	3.90	171.60	669	0.00	0	50.00	195
System Piping, Vlvs Under 4" - Steel	TN	1	102.10	102.10	276.90	28,272	0.00	0	50.00	5,105
System Piping, Vlvs 4" to 8" - Steel	TN	1	88.04	88.04	171.60	15,108	0.00	0	50.00	4,402
System Piping, Vlvs Over 8" - Steel	TN	1	52.95	52.95	128.70	6,814	0.00	0	50.00	2,647
System Insulation	CY	1	70.12	70.12	39.00	2,735	12.00	841	0.00	0
Subtotal						228,654		33,711		71,663
Closed Cooling Water System Equipment										
Cooling Water Pump w/ 300 hp motor	TN	2	3.42	13.68	171.60	2,347	0.00	0	50.00	684
Cooling Water Pump Strainer (20") - Iron	TN	2	1.33	5.33	171.60	915	0.00	0	50.00	267
Cooling Water Heat Exchanger - Steel	TN	2	24.00	96.00	128.70	12,355	0.00	0	50.00	4,800
Pmp/mtr, Heat Exchanger Fndtions - Reinf Conc	CY	1	91.00	91.00	51.60	4,696	95.00	8,645	0.00	0
Cooling Water Surge Tank - Steel	TN	1	2.01	4.01	171.60	688	0.00	0	50.00	201
Subtotal						21,001		8,645		5,951

MARTIN DISMANTLEMENT STUDY - UNITS 1, 2 & COMMON

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Boiler Plant Piping - All Systems										
Piping, V/ivs Under 4" - Steel	TN	1	658.89	658.89	276.90	182,447	0.00	0	50.00	32,945
Piping, V/ivs 4" to 8" - Steel	TN	1	448.78	448.78	171.60	77,010	0.00	0	50.00	22,439
Piping, V/ivs Over 8" - Steel	TN	1	2,120.18	2,120.18	128.70	272,867	0.00	0	50.00	106,009
Copper Tubing	TN	1	19.25	19.25	276.90	5,329	0.00	0	710.00	13,665
Steel Tubing	TN	1	1.57	1.57	276.90	434	0.00	0	50.00	78
Piping Insulation	CY	1	253.64	253.64	39.00	9,892	12.00	3,044	0.00	0
Subtotal						547,978		3,044		175,135
Induced Draft Equipment										
Induced Draft Fan	TN	4	52.85	422.80	128.70	54,414	0.00	0	50.00	21,140
Induced Draft Fan Motor - 4,500 hp	TN	4	16.50	132.00	128.70	16,988	0.00	0	50.00	6,600
Induced Draft Fan Hydraulic Coupling	TN	4	15.00	120.00	128.70	15,444	0.00	0	50.00	6,000
ID Fans/ Motors Foundation - Reinf Concrete	CY	1	2,211.00	2,211.00	51.60	114,088	95.00	210,045	0.00	0
I/D Fan Hoist - 20 Ton	TN	1	2.10	4.20	171.60	721	0.00	0	50.00	210
Dust Collector, Vibrating System, Outlet Duct	TN	1	512.50	1,025.00	171.60	175,890	0.00	0	50.00	51,250
Stack Breeching Foundation - Reinf Concrete	CY	1	641.00	641.00	51.60	33,076	95.00	60,895	0.00	0
Ductwork - Steel (70,395 sf x 1/4")	TN	1	359.02	718.03	171.60	123,215	0.00	0	50.00	35,902
Ash Pits - Reinforced Concrete	CY	1	68.00	68.00	51.60	3,509	95.00	6,460	0.00	0
Ash Water Pump w/ 40 hp motor	TN	2	1.18	4.70	171.60	807	0.00	0	50.00	235
Stack Foundation - Reinforced Concrete	CY	1	6,160.00	6,160.00	51.60	317,856	95.00	585,200	0.00	0
Stack - Reinforced Concrete	CY	1	3,851.00	7,702.00	51.60	397,423	95.00	731,690	0.00	0
Stack Lining - Concrete Brick	CY	1	3,760.80	7,521.60	20.64	155,246	95.00	714,552	0.00	0
Piping, V/ivs Under 4" - Steel	TN	1	2.63	2.63	276.90	727	0.00	0	50.00	131
Piping, V/ivs 4" to 8" - Steel	TN	1	2.93	2.93	171.60	503	0.00	0	50.00	147
Piping, V/ivs Over 8" - Steel	TN	1	128.26	128.26	128.70	16,507	0.00	0	50.00	6,413
Insulation	CY	1	18.37	18.37	39.00	716	12.00	220	0.00	0
Subtotal						1,427,129		2,309,062		128,028
Miscellaneous Equipment & Steel	TN	1	360.94	360.94	276.90	99,944	0.00	0	50.00	18,047
Total Account 312						6,378,685		2,881,123		1,793,715
Account 314 - Turbogenerator Unit										
Foundations										
Turbine Pedestal - Reinforced Concrete	CY	1	6,222.00	6,222.00	51.60	321,055	95.00	591,090	0.00	0
Subtotal						321,055		591,090		0
Turbogenerator Equipment										
Turbine Generator	TN	1	683.85	1,367.69	97.50	133,350	0.00	0	50.00	68,385
Main Lube Oil Pump w/ motor	TN	1	3.00	6.00	171.60	1,030	0.00	0	50.00	300
Aux Lube Oil Pump w/ motor	TN	1	2.00	4.00	171.60	686	0.00	0	50.00	200
Lube Oil Conditioning Tank - Steel	TN	1	3.27	6.54	171.60	1,122	0.00	0	50.00	327
Lube Oil Batch Tank - 15,000 gal	TN	1	12.20	24.40	128.70	3,140	0.00	0	50.00	1,220
Piping, V/ivs Under 4" - Steel	TN	1	26.78	26.78	276.90	7,415	0.00	0	50.00	1,339
Piping, V/ivs 4" to 8" - Steel	TN	1	11.61	11.61	171.60	1,992	0.00	0	50.00	580
Subtotal						148,736		0		72,351
Condenser and Auxiliaries										
Condenser Shell - Steel	TN	1	424.24	848.48	128.70	109,199	0.00	0	50.00	42,424

MARTIN DISMANTLEMENT STUDY - UNITS 1, 2 & COMMON

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Condenser Tubes - Aluminum-Brass	TN	1	433.94	867.87	276.90	240,313	0.00	0	140.00	121,502
Condenser Tubes - Cupro Nickel	TN	1	15.14	30.28	276.90	8,383	0.00	0	1490.00	45,111
Condenser Foundation - Reinforced Concrete	CY	1	132.00	264.00	51.60	13,622	95.00	25,080	0.00	0
Condensate Pump w/ 2,250 hp motor	TN	2	14.71	58.84	128.70	7,573	0.00	0	50.00	2,942
Condensate Pump Strainer/ Baskets (30") -Iron	TN	2	1.85	7.40	171.60	1,270	0.00	0	50.00	370
Circ Water Priming Vacuum Pump/Motors/Tank	TN	1	2.85	5.70	171.60	978	0.00	0	50.00	285
Hogging Ejector, Other Ejecs, Assoc Eqpmnt	TN	1	9.00	18.00	171.60	3,089	0.00	0	50.00	900
Piping, Vlvs Under 4" - Steel	TN	1	19.58	19.58	276.90	5,421	0.00	0	50.00	979
Piping, Vlvs 4" to 8" - Steel	TN	1	10.80	10.80	171.60	1,853	0.00	0	50.00	540
Piping, Vlvs Over 8" - Steel	TN	1	16.12	16.12	128.70	2,075	0.00	0	50.00	806
System Insulation	CY	1	17.13	17.13	39.00	668	12.00	206	0.00	0
Subtotal						394,445		25,286		215,859
Circulating Water System										
Pump - 100,000 gpm	TN	4	41.50	332.00	128.70	42,728	0.00	0	50.00	16,600
Pump Motor - 1,000 hp	TN	4	12.10	96.80	128.70	12,458	0.00	0	50.00	4,840
Subtotal						55,187		0		21,440
Miscellaneous Equipment & Steel	TN	1	62.28	62.28	276.90	17,245	0.00	0	50.00	3,114
Total Account 314						936,668		616,376		312,764
Account 315 - Accessory Electrical Equipment										
Generator Leads & Supports										
Generator Leads Enclosures/ Supports - Steel	TN	1	32.00	64.00	171.60	10,982	0.00	0	50.00	3,200
Subtotal						10,982		0		3,200
Power Conversion Equipment										
6,900V Metal-clad Switchgear	TN	2	96.10	384.40	276.90	106,440	0.00	0	50.00	19,220
6,900V Non-segregated Phase Bus	TN	1	19.32	38.65	276.90	10,701	0.00	0	710.00	27,439
6,900V Non-segregated Phase Bus - Struc Steel	TN	1	3.75	7.50	128.70	965	0.00	0	50.00	375
480V Metal-clad Switchgear	TN	1	41.10	82.20	276.90	22,761	0.00	0	50.00	4,110
480V Load Control Center - 1,000 kva	TN	2	2.60	10.40	276.90	2,880	0.00	0	50.00	520
480V Load Control Center - 1,500 kva	TN	4	3.25	26.00	276.90	7,199	0.00	0	50.00	1,300
480V Motor Control Center (9 @ >1 ton each)	TN	1	29.10	58.20	276.90	16,116	0.00	0	50.00	2,910
Auxiliary Power Transformer	TN	1	49.05	98.10	276.90	27,164	0.00	0	50.00	4,905
Aux Transformer Foundation - Reinf Conc	CY	1	542.00	542.00	51.60	27,967	95.00	51,490	0.00	0
Station Service Transformer	TN	1	7.80	15.60	276.90	4,320	0.00	0	50.00	780
Manholes & Handholes - Reinforced Concrete	CY	1	1,369.00	1,369.00	51.60	70,640	95.00	130,055	0.00	0
Generator Isolated Phase Bus	TN	1	37.92	75.84	276.90	20,999	0.00	0	710.00	53,844
Generator Isolated Phase Bus - Struc Steel	TN	1	9.00	18.00	128.70	2,317	0.00	0	50.00	900
Neutral Grounding Transformer	TN	3	4.00	24.00	276.90	6,646	0.00	0	50.00	1,200
Transformer Neutral Grounding System Eqpt	TN	3	1.25	7.50	276.90	2,077	0.00	0	50.00	375
Current Transformer	TN	6	1.00	12.00	276.90	3,323	0.00	0	50.00	600
125VDC Load Control Center	TN	1	3.50	7.00	276.90	1,938	0.00	0	50.00	350
25 kva Cyberez Static Inverter	TN	2	1.00	4.00	276.90	1,108	0.00	0	50.00	200
25 kva Uninterruptible Power Supply (UPS)	TN	1	1.00	2.00	276.90	554	0.00	0	50.00	100
** Battery Unit - 125VDC, 60-Cell	TN	1	10.50	21.00	276.90	5,815	0.00	0	50.00	1,050
Battery Charger	TN	3	1.05	6.30	276.90	1,744	0.00	0	50.00	315
Main Boiler-Turbine Generator Control Board	TN	1	25.58	51.16	276.90	14,166	0.00	0	50.00	2,558

MARTIN DISMANTLEMENT STUDY - UNITS 1, 2 & COMMON

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Main Boiler-Turbine Generator Control Panel	TN	1	8.80	17.60	276.90	4,873	0.00	0	50.00	880
Bus Current Transformer	TN	3	1.00	6.00	276.90	1,661	0.00	0	50.00	300
Potential Transformer	TN	1	2.25	4.50	276.90	1,246	0.00	0	50.00	225
Voltage & Field Breaker Regulator	TN	1	6.00	12.00	276.90	3,323	0.00	0	50.00	600
Conduit (underground) - PVC	TN	1	246.15	246.15	276.90	68,160	0.00	0	0.00	0
Conduit (exposed) - Steel	TN	1	374.94	374.94	276.90	103,821	0.00	0	50.00	18,747
Conduit Ductbanks - Reinforced Concrete	CY	1	5,971.00	5,971.00	51.60	308,104	95.00	567,245	0.00	0
Cable Tray - Steel	TN	1	96.76	96.76	276.90	26,793	0.00	0	50.00	4,838
Power and Control Wiring - Insulated Copper	TN	1	581.18	581.18	468.00	271,993	0.00	0	760.00	441,698
Grounding Wire - Bare Copper	TN	1	27.13	27.13	468.00	12,697	0.00	0	710.00	19,263
Subtotal						1,160,511		748,790		609,602
Total Account 315						1,171,494		748,790		612,802
FERC Account 316										
Miscellaneous Power Plant Equipment										
Compressed Air Piping, Vlvs Under 4" - Steel	TN	1	128.62	128.62	276.90	35,614	0.00	0	50.00	6,431
Compressed Air Piping, Vlvs 4" to 8" - Steel	TN	1	5.09	5.09	171.60	874	0.00	0	50.00	255
Nitrogen Purge Piping, Vlvs Under 4" - Steel	TN	1	141.36	141.36	276.90	39,144	0.00	0	50.00	7,068
Total Account 316						75,631		0		13,754
FERC Account 353										
Substation Equipment										
Switchyard Foundation - Reinforced Concrete	CY	1	153.00	306.00	51.60	15,790	95.00	29,070	0.00	0
Main Power Transformer	TN	2	250.20	1,000.80	276.90	277,122	0.00	0	50.00	50,040
Main Pwr Transformer Foundation - Reinf Conc	CY	1	2,949.00	2,949.00	51.60	152,168	95.00	280,155	0.00	0
Main Power Transformer Firewall - Reinf Conc	CY	1	28.01	56.02	51.60	2,891	95.00	5,322	0.00	0
Transformer Bus Support/ Pull-off Structure	TN	1	25.80	51.60	128.70	6,641	0.00	0	50.00	2,580
242 kva Oil Circuit Breaker	TN	1	25.11	50.21	276.90	13,903	0.00	0	50.00	2,511
Gas Circuit Breaker/ Current Transformer	TN	1	40.80	81.60	276.90	22,595	0.00	0	50.00	4,080
Aluminum Wiring	TN	1	2.00	4.00	468.00	1,872	0.00	0	600.00	2,400
Total Account 353						492,982		314,547		61,611
TOTAL MARTIN UNITS 1 & 2						12,952,793		6,969,846		2,912,497
MARTIN FUEL OIL STORAGE FACILITY										
FERC Account 311										
Improvements to Site										
Riviera Unloading Facility										
F/O Transfer Pump w/ 300 hp mtr (Sier-Bath)	TN	2	4.30	8.60	171.60	1,476	0.00	0	50.00	430
F/O Booster Pump w/ 500 hp mtr (Inger-Rand)	TN	2	5.43	10.85	171.60	1,862	0.00	0	50.00	543
Pump/ Motor Foundations - Reinforced Concrete	CY	1	90.00	90.00	51.60	4,644	95.00	8,550	0.00	0
30" F/O Piping to WPB Facility - Steel	TN	1	8,147.74	8,147.74	234.00	1,906,571	95.00	774,035	0.00	0
Pre-cast Pipeline Weights - Reinf Concrete	CY	1	121.50	121.50	51.60	6,269	95.00	11,543	0.00	0
F/O Transfer Piping at Facility - Steel	TN	1	16.24	16.24	128.70	2,090	0.00	0	50.00	812
10" Collapsible Unloading Arm	TN	2	3.05	6.10	171.60	1,047	0.00	0	50.00	305
10" Stationary Unloading Arm	TN	2	8.50	17.00	171.60	2,917	0.00	0	50.00	850
Electrical Switchgear Building - Conc Block	CY	1	55.00	55.00	20.64	1,135	95.00	5,225	0.00	0
Elec Swgr Bldg Foundation - Reinf Concrete	CY	1	92.00	92.00	51.60	4,747	95.00	8,740	0.00	0
Subtotal						1,932,758		808,093		2,939

MARTIN DISMANTLEMENT STUDY - UNITS 1, 2 & COMMON

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
West Palm Beach Storage Facility										
Asphalt Paving	CY	1	237.60	237.60	20.64	4,904	95.00	22,572	0.00	0
Light Poles - Concrete (28 in total)	CY	1	3.54	3.54	20.64	73	95.00	337	0.00	0
Surge Basin - Reinforced Concrete	CY	1	300.00	300.00	51.60	15,480	95.00	28,500	0.00	0
Septic Tank System	CY	1	2.00	2.00	197.80	396	0.00	0	0.00	0
Yard Platforms, Ladders, Ppng Support - Steel	TN	1	36.00	36.00	171.60	6,178	0.00	0	50.00	1,800
Yard Structural Supports, Fndtns - Reinf Conc	CY	1	400.00	400.00	51.60	20,640	95.00	38,000	0.00	0
Potable Water Piping, Vlvs Under 4" - Steel	TN	1	9.48	9.48	234.00	2,217	0.00	0	50.00	474
Firemain Piping - Reinforced Concrete	CY	1	26.11	26.11	197.80	5,165	0.00	0	0.00	0
Firemain Piping, Hydrants Over 8" - Iron	TN	1	93.95	93.95	234.00	21,983	0.00	0	50.00	4,697
Oily Waste Separator, Pump/mtr (above ground)	TN	1	3.25	3.25	171.60	558	0.00	0	50.00	163
Diesel-driven Firepump w/ Engine	TN	1	2.72	2.72	171.60	468	0.00	0	50.00	136
Motor-driven Firepump w/ Motor	TN	1	1.57	1.57	171.60	270	0.00	0	50.00	79
500,000 bbl F/O Storage Tank/ Mixers - Steel	TN	4	1,403.18	5,612.70	n/a	150,000	0.00	0	50.00	280,635
500,000 bbl Tank Ladder & Platform Walkway	TN	4	2.85	11.40	171.60	1,956	0.00	0	50.00	570
500,000 bbl F/O Storage Tank - Insulation	CY	4	680.00	2,720.00	39.00	106,080	12.00	32,640	0.00	0
500,000 bbl F/O Storage Tanks - Foundation	EA	1			n/a	0	n/a	37,914	0.00	0
500,000 bbl Tank - Soil Remediation	EA	4			n/a	0	n/a	372,752	0.00	0
500,000 bbl Tank - Cleaning	EA	1			n/a	0	n/a	880,000	0.00	0
Fuel Oil Heating Boiler - Steel	TN	2	17.40	34.80	128.70	4,479	0.00	0	50.00	1,740
Fuel Oil Heat Exchanger - Steel	TN	4	3.44	13.76	171.60	2,361	0.00	0	50.00	688
Boiler Feedwater Tank - Steel (10'D x 15' Ht)	TN	1	3.80	3.80	171.60	652	0.00	0	50.00	190
Fuel Oil Transfer Pump w/ motor (Sier-Bath)	TN	4	6.93	27.72	171.60	4,757	0.00	0	50.00	1,386
Transfer Pump/ Motor Foundation - Reinf Conc	CY	1	2,070.00	2,070.00	51.60	106,812	95.00	196,650	0.00	0
Pipeline Strainer (24") - Iron	TN	2	1.90	3.80	171.60	652	0.00	0	50.00	190
Pipeline Strainer (20") - Iron	TN	1	1.65	1.65	171.60	283	0.00	0	50.00	83
F/O Transfer Yard Ppng, Vlvs Under 4" - Steel	TN	1	15.41	15.41	276.90	4,267	0.00	0	50.00	771
F/O Transfer Yard Ppng, Vlvs 4" to 8" - Steel	TN	1	32.87	32.87	171.60	5,640	0.00	0	50.00	1,643
F/O Transfer Yard Ppng, Vlvs Over 8" - Steel	TN	1	213.86	213.86	128.70	27,524	0.00	0	50.00	10,693
Steam Trace Piping, Vlvs Under 4" - Steel	TN	1	64.06	64.06	276.90	17,739	0.00	0	50.00	3,203
18" Undrgrnd Pipeline to Martin Plant - Steel	TN	1	6,671.60	6,671.60	234.00	1,561,155	0.00	0	50.00	333,580
Meter Prover and Associated Equipment - Steel	TN	1	17.05	17.05	128.70	2,194	0.00	0	50.00	853
Metering Installation & Assoc Eqmmt - Steel	TN	1	19.00	19.00	128.70	2,445	0.00	0	50.00	950
Fuel Oil Purge Tank - 110,000 bbl	TN	1	381.00	381.00	n/a	25,000	0.00	0	50.00	19,050
Fuel Oil Purge Tank - 110,000 bbl - Cleaning	EA	1					n/a	84,687	50.00	0
Fuel Oil Purge Tank - 110,000 bbl -Soil Remediation	EA	1					n/a	42,224	50.00	0
Fuel Oil Purge Tank Ladder & Platform Walkway	TN	1	1.00	1.00	276.90	277	0.00	0	50.00	50
Purge Oil Pump w/ Motor	TN	1	1.90	1.90	171.60	326	0.00	0	50.00	95
Fuel Oil Purge Piping, Vlvs Over 8" - Steel	TN	1	41.94	41.94	128.70	5,398	0.00	0	50.00	2,097
Fuel Oil Purge Tank Foundation - Reinf Conc	CY	1	5,600.00	5,600.00	n/a	0	0.00	0	0.00	0
Light Oil Tank - 5,000 bbl	TN	1	24.50	24.50	n/a	5,000	0.00	0	50.00	1,225
Light Oil Tank - 5,000 bbl - Cleaning	EA	1			n/a	0	n/a	4,480	0.00	0
Light Oil Tank - 5,000 bbl Soil Remediation	EA	1			n/a	0	n/a	2,352	0.00	0
Light Oil Piping, Vlvs Under 4" - Steel	TN	1	7.11	7.11	276.90	1,968	0.00	0	50.00	355
Light Oil Piping, Vlvs 4" to 8" - Steel	TN	1	3.88	3.88	171.60	665	0.00	0	50.00	194
Terminal Buildings - Concrete Block	CY	1	469.00	469.00	20.64	9,680	95.00	44,555	0.00	0
Terminal Buildings Roofing - Concrete	CY	1	182.00	182.00	20.64	3,756	95.00	17,290	0.00	0
Terminal Bldgs Foundations - Reinf Concrete	CY	1	549.00	549.00	51.60	28,328	95.00	52,155	0.00	0
Worthington Air Compressor w/ Motor	TN	1	2.00	2.00	171.60	343	0.00	0	50.00	100

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MARTIN DISMANTLEMENT STUDY - UNITS 1, 2 & COMMON

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Radio Antenna - Steel	TN	1	2.00	2.00	171.60	343	0.00	0	50.00	100
Subtotal						2,158,413		1,857,108		687,789
Total Account 311						4,091,171		2,665,201		670,728
FERC Account 315										
Accessory Electrical Equipment										
Riviera Unloading Facility										
Auxiliary Power Transformer - 1500 kva	TN	1	4.65	4.65	276.90	1,288	0.00	0	50.00	233
Neutral Grounding Resistor	TN	1	2.50	2.50	276.90	692	0.00	0	50.00	125
Transformer/ Resistor Foundation - Reinf Conc	CY	1	16.00	16.00	51.60	826	95.00	1,520	0.00	0
2,400V Metal-clad Switchgear	TN	1	6.99	6.99	276.90	1,935	0.00	0	50.00	349
480V Load Center/ Motor Control Center	TN	1	8.00	8.00	276.90	2,215	0.00	0	50.00	400
Control Building - Panels/ Consoles	TN	1	2.50	2.50	276.90	692	0.00	0	50.00	125
Subtotal						7,648		1,520		1,232
West Palm Beach Storage Facility										
Auxiliary Power Transformer - 5,000 kva	TN	1	8.96	8.96	276.90	2,482	0.00	0	50.00	448
Aux Power Trnsfrmr Foundation - Reinf Conc	CY	1	18.00	18.00	51.60	929	95.00	1,710	0.00	0
Transformer - 750 kva	TN	1	2.10	2.10	276.90	581	0.00	0	50.00	105
Transformer - 112.5 kva	TN	1	1.28	1.28	276.90	354	0.00	0	50.00	64
2,400V Metal-clad Switchgear	TN	1	8.46	8.46	276.90	2,343	0.00	0	50.00	423
480V Load Center	TN	1	3.00	3.00	276.90	831	0.00	0	50.00	150
480V Motor Control Center	TN	4	2.50	10.00	276.90	2,769	0.00	0	50.00	500
Neutral Grounding Transformer	TN	2	1.25	2.50	276.90	692	0.00	0	50.00	125
Emergency Diesel Gen & Accessories - 100 kw	TN	1	3.20	3.20	171.60	549	0.00	0	50.00	160
** Battery Set	TN	1	1.43	1.43	171.60	245	0.00	0	50.00	71
Battery Charger	TN	1	1.20	1.20	171.60	206	0.00	0	50.00	60
Electrical Conduit (underground) - PVC	TN	1	30.54	30.54	197.80	6,040	0.00	0	0.00	0
Electrical Conduit (above ground) - Steel	TN	1	83.33	83.33	276.90	23,073	0.00	0	50.00	4,166
Cable Tray - Steel	TN	1	1.36	1.36	276.90	377	0.00	0	50.00	68
Insulated Copper Wiring	TN	1	64.34	64.34	468.00	30,109	0.00	0	760.00	48,895
Bare Copper Wiring	TN	1	9.03	9.03	468.00	4,227	0.00	0	710.00	6,412
Supervisory Control Consoles (total)	TN	1	8.00	8.00	276.90	2,215	0.00	0	50.00	400
Subtotal						78,022		1,710		62,048
Total Account 315						85,670		3,230		63,280
TOTAL MARTIN FUEL OIL STORAGE FACILITY						4,176,841		2,668,431		734,008
TOTAL MARTIN COMMON, UNITS 1 & 2 AND FUEL OIL STORAGE FACILITY						19,030,178		12,014,453		3,833,154

Martin Units 3 & 4 Dismantlement Study

Removal, Disposal & Salvage Cost Worksheet	Total Units of Measure	Unit of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Unit Salvage Value	Total Salvage Value
Unit 3								
Account 341 Structures and Improvements								
Yard Lighting								
Yard Lighting	5.50	TN	276.90	1,523	0.00	0	50.00	275
Plant Lighting	2.00	TN	276.90	554	0.00	0	50.00	100
Discharge - Paving	60.00	CY	20.64	1,238	95.00	5,700	0.00	0
Intake- Paving	190.00	CY	20.64	3,922	95.00	18,050	0.00	0
Misc Curbs, Gutters, Sidewalks	150.00	CY	20.64	3,096	95.00	14,250	0.00	0
				<u>10,333</u>		<u>38,000</u>		<u>375</u>
Fire Protection System								
Fire Protection Pumps	4.00	TN	171.60	686	0.00	0	50.00	200
Fire Protection System (Piping & Hydrants)	213.00	CY	171.60	36,551	0.00	0	50.00	10,650
Fire Protection System 2 1/2" & > Pipe	74.25	TN	171.60	12,741	0.00	0	50.00	3,713
Fire Protection System 2" & < Pipe	2.74	TN	171.60	470	0.00	0	50.00	137
Sanitary Sewer Piping	18.22	CY	20.64	376	95.00	1,731	0.00	0
Fencing	175.00	TN	276.90	48,458	0.00	0	50.00	8,750
Fencing	2.50	TN	276.90	692	0.00	0	50.00	125
				<u>99,974</u>		<u>1,731</u>		<u>23,574</u>
Buildings								
Water Chemistry Building	500.00	CY	20.64	10,320	95.00	47,500	0.00	0
Hazardous Waste Drum Storage Building	120.00	CY	20.64	2,477	95.00	11,400	0.00	0
Paint & Lube Oil Storage Building	120.00	CY	20.64	2,477	95.00	11,400	0.00	0
Service Building - Masonry	500.00	CY	20.64	10,320	95.00	47,500	0.00	0
Service Building - Structural & Miscellaneous Steel	10.00	TN	276.90	2,769	0.00	0	50.00	500
Service Building - Finishes	20.00	CY	20.64	413	95.00	1,900	0.00	0
Service Building - Doors, Hardware, Glazing	15.00	CY	20.64	310	95.00	1,425	0.00	0
Service Building - Specialties	25.00	CY	20.64	516	95.00	2,375	0.00	0
Service Building - Plumbing	80.00	CY	20.64	1,651	95.00	7,600	0.00	0
Service Building -Electrical	40.00	TN	276.90	11,076	0.00	0	50.00	2,000
Service Building - HVAC	100.00	TN	276.90	27,690	0.00	0	50.00	5,000
Service Building - Elevator & Hoist	7.50	TN	276.90	2,077	0.00	0	50.00	375
				<u>72,095</u>		<u>131,100</u>		<u>7,875</u>
Power Block								
Service Building -Concrete	2,403.00	CY	20.64	49,598	95.00	228,285	0.00	0
Power Block - Structural Steel	1,044.00	TN	128.70	134,363	0.00	0	50.00	52,200
Base Plates Unit 3A	20.00	TN	128.70	2,574	0.00	0	50.00	1,000
Base Plates Unit 3B	20.00	TN	128.70	2,574	0.00	0	50.00	1,000
Power Block - Handrail, Toeblock, Misc.	5.00	TN	276.90	1,385	0.00	0	50.00	250
Power Block - Decking	301.59	TN	276.90	83,510	0.00	0	50.00	15,080
Power Block - Ladders, Stairs & Platforms	58.00	TN	276.90	16,060	0.00	0	50.00	2,900
HRSG Structural/Ductwork - Unit 3A	210.05	TN	171.60	36,045	0.00	0	50.00	10,503
HRSG Structural/Ductwork - Unit 3B	205.05	TN	171.60	35,187	0.00	0	50.00	10,253
Lighting Panels	0.03	TN	276.90	7	0.00	0	50.00	1
Power Block Grade Slab Concrete	2,070.00	CY	51.60	106,812	95.00	196,650	0.00	0
Power Block Structure Foundation Concrete	2,457.00	CY	51.60	126,781	95.00	233,415	0.00	0
Power Block Elevated Slabs	659.00	CY	51.60	34,004	95.00	62,605	0.00	0
Water Treatment Control Building	177.78	CY	51.60	9,173	95.00	16,889	0.00	0

Martin Units 3 & 4 Dismantlement Study

Removal, Disposal & Salvage Cost Worksheet	Total Units of Measure	Unit of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Unit Salvage Value	Total Salvage Value
HRSG Analyzer Buildings (2 ea)	200.00	CY	51.60	10,320	95.00	19,000	0.00	0
HRSG DCS Buildings (2 ea)	152.89	CY	51.60	7,889	95.00	14,524	0.00	0
Discharge - Sluice Gates	100.00	CY	51.60	5,160	95.00	9,500	0.00	0
				<u>661,442</u>		<u>760,658</u>		<u>93,188</u>
Open Cooling Water System								
OCW System 2" &< - Pipe	0.43	TN	171.60	74	0.00	0	50.00	21
OCW System 2 1/2" &> - Pipe	42.63	TN	171.60	7,314	0.00	0	50.00	2,131
OCW Duplex Basket Strainers	0.15	TN	171.60	26	0.00	0	50.00	8
Open Cooling Water Pumps	11.80	TN	128.70	1,519	0.00	0	50.00	590
Open Cooling Water Booster Pumps	9.80	TN	128.70	1,262	0.00	0	50.00	490
				<u>10,194</u>		<u>0</u>		<u>3,240</u>
Pond Water System								
Pond Water System 2" &< Pipe	0.10	TN	171.60	17	0.00	0	50.00	5
Pond Water System 2 1/2" &> Pipe	6.18	TN	171.60	1,060	0.00	0	50.00	309
Pond Water Booster Pumps	3.27	TN	171.60	561	0.00	0	50.00	163
				<u>1,638</u>		<u>0</u>		<u>477</u>
Water Treatment System								
Water Treatment System	5.50	TN	171.60	944	0.00	0	50.00	275
Service Water System 2" &< Pipe	1.61	TN	171.60	276	0.00	0	50.00	81
Service Water System 2 1/2" &> Pipe	5.80	TN	171.60	995	0.00	0	50.00	290
Service Water Pumps	0.57	TN	171.60	97	0.00	0	50.00	28
Treated Water Storage Tanks	1.20	TN	171.60	205	0.00	0	50.00	60
Treated Water Storage Tank Foundation	21.00	CY	51.60	1,084	95.00	1,995	0.00	0
Rainwater Runoff Storage Tank Foundation	12.00	CY	51.60	619	95.00	1,140	0.00	0
HRSG Blowdown Tank Sump	200.00	CY	51.60	10,320	95.00	19,000	0.00	0
Wastewater System 2" &< Pipe	1.69	TN	171.60	289	0.00	0	50.00	84
Power Block Drainage Pipe	63.56	CY	51.60	3,279	95.00	6,038	0.00	0
Wastewater System 2 1/2" &> Pipe	101.84	TN	128.70	13,106	0.00	0	50.00	5,092
Sump Pumps	8.75	TN	128.70	1,126	0.00	0	50.00	438
Sump Pumps & Miscellaneous	4.00	TN	128.70	515	0.00	0	50.00	200
Rainfall Runoff Collection Tank	5.00	TN	171.60	858	0.00	0	50.00	250
Wastewater Treatment System	0.50	TN	171.60	86	0.00	0	50.00	25
				<u>33,800</u>		<u>26,173</u>		<u>6,822</u>
Potable Water System								
Potable Water System	2.50	TN	171.60	429	0.00	0	50.00	125
Potable Water System 2" &< Pipe	5.01	TN	171.60	861	0.00	0	50.00	251
Potable Water System	19.41	TN	171.60	3,330	0.00	0	50.00	970
Potable Water System 2 1/2" &> Pipe	9.88	TN	171.60	1,696	0.00	0	50.00	494
Pipe Rack Drilled Piers - Concrete	810.00	CY	51.60	41,796	95.00	76,950	0.00	0
Pipe Racks & Bridges	481.00	TN	171.60	82,540	0.00	0	50.00	24,050
				<u>130,631</u>		<u>76,950</u>		<u>23,890</u>
Control/Security								
Access Control / Security	5.00	CY	51.60	258	95.00	475	0.00	0
Auxiliary Boiler Building	63.89	CY	51.60	3,297	95.00	6,069	0.00	0
Control Building - Masonry	73.83	CY	20.64	1,524	95.00	7,014	0.00	0

Martin Units 3 & 4 Dismantlement Study

Removal, Disposal & Salvage Cost Worksheet	Total Units of Measure	Unit of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Unit Salvage Value	Total Salvage Value
Control Building Structural Steel	119.00	TN	128.70	15,318	0.00	0	50.00	5,950
Control Building Finishes	14.00	CY	20.64	289	95.00	1,330	0.00	0
Control Building Millwork	26.79	CY	20.64	553	95.00	2,545	0.00	0
Control Building Doors, Hardware, Glazing	10.00	CY	20.64	206	95.00	950	0.00	0
Control Building Thermal Protection	185.70	CY	20.64	3,833	95.00	17,642	0.00	0
Control Building Specialties	20.00	CY	20.64	413	95.00	1,900	0.00	0
Control Building Plumbing	1.00	TN	171.60	172	0.00	0	50.00	50
Control Building Electrical	12.47	TN	171.60	2,140	0.00	0	50.00	624
Control Building HVAC	61.85	TN	171.60	10,613	0.00	0	50.00	3,093
Control Building Concrete	810.00	CY	51.60	41,796	95.00	76,950	0.00	0
Control Building Elevator & Hoist	10.00	TN	171.60	1,716	0.00	0	50.00	500
Switchgear Building	200.00	CY	51.60	10,320	95.00	19,000	0.00	0
				92,445		133,875		10,218
Account 341 Totals:				1,112,572		1,190,697		171,656
Account 342: Fuel Holders, Producers and Accessories								
Fuel Oil Equipment								
Fuel Oil Equipment Foundation	180.00	CY	51.60	9,288	95.00	17,100	0.00	0
Fuel Oil Storage Tank Foundation	3,868.00	CY	51.60	199,589	95.00	367,460	0.00	0
Diesel Oil Day Tanks	12.50	TN	171.60	2,145	0.00	0	50.00	625
Fuel Oil Storage Tanks	165.00	TN	171.60	28,314	0.00	0	50.00	8,250
				239,336		364,560		8,675
Natural Gas System								
Natural Gas System 2" & < - Pipe	0.17	TN	171.60	29	0.00	0	50.00	8
Gas Piping	90.75	TN	171.60	15,573	0.00	0	50.00	4,538
Natural Gas System 2 1/2" & > - Pipe	15.07	TN	171.60	2,586	0.00	0	50.00	754
Liquid Fuel System 2 1/2" & > - Pipe	58.38	TN	171.60	10,018	0.00	0	50.00	2,919
				28,206		0		8,218
Auxiliary Boiler System								
Auxiliary Boiler & Associated Skids	75.00	TN	171.60	12,870	0.00	0	50.00	3,750
Auxiliary Boiler Equipment Insulation	1.68	CY	39.00	65	12.00	20	0.00	0
Fuel Oil Unloading Equipment	25.00	TN	171.60	4,290	0.00	0	50.00	1,250
				17,225		20		5,000
Account 342 Totals:				284,767		364,580		22,093
Account 343: Prime Movers								
HRSG Foundation Mat Concrete	1,212.00	CY	51.60	62,539	95.00	115,140	0.00	0
HRSG Mechanical Equipment - Unit 3A	158.80	TN	128.70	20,438	0.00	0	50.00	7,940
HRSG Mechanical Equipment - Unit 3B	162.30	TN	128.70	20,888	0.00	0	50.00	8,115
Mech Finishes - Casings	66.45	TN	128.70	8,552	0.00	0	50.00	3,323
Modules - Unit 3A	2,350.65	TN	97.50	229,188	0.00	0	50.00	117,533
Modules - Unit 3B	2,420.70	TN	97.50	236,018	0.00	0	50.00	121,035
HRSG Blowdown System 2 1/2" & > - Pipe	12.08	TN	128.70	1,554	0.00	0	50.00	604
Electrical & Controls - Unit 3A	27.50	TN	171.60	4,719	0.00	0	50.00	1,375
Electrical & Controls - Unit 3A	27.50	TN	171.60	4,719	0.00	0	50.00	1,375
				568,616		115,140		261,299

Martin Units 3 & 4 Dismantlement Study

Removal, Disposal & Salvage Cost Worksheet	Total Units of Measure	Unit of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Unit Salvage Value	Total Salvage Value
Feedwater System								
Feedwater System - 2" & < Pipe	2.47	TN	128.70	318	0.00	0	50.00	124
Feedwater System - 2 1/2" & > Pipe	51.31	TN	128.70	6,604	0.00	0	50.00	2,566
HRSG HP Feedwater Pumps	8.25	TN	128.70	1,062	0.00	0	1,490.00	12,295
HRSG LP Feedwater Pumps	8.25	TN	128.70	1,062	0.00	0	1,490.00	12,295
HRSG Feedwater Pump Foundations	615.00	CY	51.60	31,734	95.00	58,425	0.00	0
Deaerator Make-up Pumps	2.79	TN	171.60	478	0.00	0	50.00	139
H P Feedwater Pumps - Insulation	12.62	CY	39.00	492	12.00	151	0.00	0
L P Feedwater Pumps - Insulation	2.22	CY	39.00	87	12.00	27	0.00	0
L/P Feedwater Piping - Insulation	76.38	CY	39.00	2,979	12.00	917	0.00	0
				<u>44,816</u>		<u>59,520</u>		<u>27,419</u>
Combustion Turbine								
Combustion Turbine Fdn Mat Concrete	1,682.00	CY	51.60	86,791	95.00	159,790	0.00	0
Condensate Pump Casings	0.50	TN	171.60	86	0.00	0	50.00	25
Fire Pumps Foundation Concrete	29.00	CY	51.60	1,496	95.00	2,755	0.00	0
Misc. Mechanical Equipment Fdn Concrete	241.00	CY	51.60	12,436	95.00	22,895	0.00	0
C.T. Skid Mounted Equip Fdn Conc Pads	77.00	CY	51.60	3,973	95.00	7,315	0.00	0
C.T. 3A Combustion Turbine	188.50	TN	97.50	18,379	0.00	0	50.00	9,425
C.T. 3B Combustion Turbine	188.50	TN	97.50	18,379	0.00	0	50.00	9,425
C.T. 3A Insulation	28.89	CY	39.00	1,127	12.00	347	0.00	0
C.T. 3A Insulation	28.89	CY	39.00	1,127	12.00	347	0.00	0
C.T. Interconnect Pipe 2 1/2" & > - Pipe	112.00	TN	171.60	19,219	0.00	0	50.00	5,600
C.T. Interconnect Pipe 2" & < - Pipe	9.39	TN	171.60	1,611	0.00	0	50.00	470
				<u>164,524</u>		<u>193,448</u>		<u>24,943</u>
Main Steam System								
Main Steam System 2 1/2" & > - PIPE	994.73	TN	128.70	128,021	0.00	0	50.00	49,736
L/B Main Steam Piping - Insulation	171.11	CY	39.00	6,673	12.00	2,053	0.00	0
Aux Boiler System 2" & < - Pipe	1.32	TN	171.60	226	0.00	0	50.00	66
Aux Boiler System 2 1/2" & > - Pipe	10.20	TN	171.60	1,750	0.00	0	50.00	510
L/B Auxiliary Boiler Piping - Insulation	8.75	CY	39.00	341	12.00	105	0.00	0
L/B B.O.P. Piping - Insulation	5.38	CY	39.00	210	12.00	65	0.00	0
				<u>137,222</u>		<u>2,223</u>		<u>50,312</u>
Blowdown System								
HRSG Blowdown System 2" & < - Pipe	1.02	TN	171.60	175	0.00	0	50.00	51
HRSG Blowdown Tanks	4.74	TN	128.70	610	0.00	0	50.00	237
Main Steam Drain Tanks	2.88	TN	128.70	370	0.00	0	50.00	144
HRSG Blowdown Tanks - Insulation	3.58	CY	39.00	140	12.00	43	0.00	0
Steam Drain Tanks - Insulation	6.71	CY	39.00	262	12.00	81	0.00	0
Small Bore Pipe - Insulation	108.00	CY	39.00	4,212	12.00	1,296	0.00	0
Mechanical Finishes - Insulation	100.00	CY	39.00	3,900	12.00	1,200	0.00	0
				<u>9,669</u>		<u>2,619</u>		<u>432</u>
Steam Turbine								
Steam Turbines - Insulation	6.00	CY	39.00	234	12.00	72	0.00	0
Main Steam System 2" & < - Pipe	8.12	TN	171.60	1,393	0.00	0	50.00	406
Steam Turbine Base Plates	25.00	TN	97.50	2,438	0.00	0	50.00	1,250

Martin Units 3 & 4 Dismantlement Study

Removal, Disposal & Salvage Cost Worksheet	Total Units of Measure	Unit of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Unit Salvage Value	Total Salvage Value
Steam Turbine & Accessories	175.00	TN	97.50	17,063	0.00	0	50.00	8,750
Hydraulic Power Unit	1.50	TN	128.70	193	0.00	0	50.00	75
Instrument Tubing	4.36	TN	171.60	748	0.00	0	50.00	218
Instrument Tubing - Insulation	7.19	CY	39.00	280	12.00	86	0.00	0
Instrumentation - Insulation	0.24	CY	39.00	9	12.00	3	0.00	0
				22,357		161		10,699
Condensate System								
Condensate System 2" & < Pipe	1.64	TN	171.60	281	0.00	0	50.00	82
Condensate System 2 1/2" & > Pipe	80.47	TN	171.60	13,808	0.00	0	50.00	4,023
L/B Cond. & B.D. Piping - Insulation	37.78	CY	39.00	1,474	12.00	453	0.00	0
Condenser Vacuum Pump Skid & Equipment	1.25	TN	128.70	161	0.00	0	50.00	63
Condensate Storage Tank Foundation	15.00	CY	51.60	774	95.00	1,425	0.00	0
Condensate Make-up Pumps	0.75	TN	128.70	97	0.00	0	50.00	38
HRSG Chemical FD System 2" & < - Pipe	0.98	TN	171.60	167	0.00	0	50.00	49
Circulating Water Chemical Feed Equipment	0.13	TN	171.60	21	0.00	0	50.00	6
HRSG Chemical Feed Skids	7.50	TN	171.60	1,287	0.00	0	50.00	375
Lube Oil Storage Tanks	3.26	TN	171.60	559	0.00	0	50.00	163
Miscellaneous Process Tanks	5.30	TN	171.60	909	0.00	0	50.00	265
Condensate Transfer System 2" & < - Pipe	2.15	TN	171.60	368	0.00	0	50.00	107
Condensate Transfer System 2 1/2" & > - Pipe	64.68	TN	128.70	8,324	0.00	0	50.00	3,234
Condensate Pumps	2.39	TN	128.70	308	0.00	0	50.00	120
Condensate Transfer Pumps	2.39	TN	128.70	308	0.00	0	50.00	120
Condensate Storage Tanks	1.20	TN	171.60	205	0.00	0	50.00	60
Bulk Gas System 2" & < - Pipe	5.13	TN	171.60	880	0.00	0	50.00	257
Bulk Gas Storage Area Facilities	6.67	CY	20.64	138	95.00	633	0.00	0
Water Analysis System	0.50	TN	171.60	86	0.00	0	50.00	25
Condensers	264.40	TN	128.70	34,028	0.00	0	710.00	187,724
Gland Steam Condensers	2.50	TN	128.70	322	0.00	0	50.00	125
Condensate Air Rem System 2" & < - Pipe	1.57	TN	171.60	270	0.00	0	50.00	79
				64,774		2,912		196,912
Circulating Water System								
Condensate Air Rem System 2 1/2" & > - Pipe	3.35	TN	128.70	431	0.00	0	50.00	167
Circulating Water System 2" & < - Pipe	0.26	TN	171.60	45	0.00	0	50.00	13
Circulating Water System 2 1/2" & > - Pipe	1.52	TN	128.70	195	0.00	0	50.00	76
L/B Circulating Water Piping - Insulation	0.31	CY	39.00	12	12.00	4	0.00	0
Circulating Water Pumps	47.98	TN	128.70	6,174	0.00	0	50.00	2,399
C W Chemical Treatment System 2" & < - Pipe	0.45	TN	171.60	77	0.00	0	50.00	23
				6,934		4		2,677
Screen Wash System								
Screen Wash Bubbler System Equipment	0.50	TN	171.60	86	0.00	0	50.00	25
Screen Wash System 2" & < - Pipe	0.05	TN	171.60	8	0.00	0	50.00	2
Screen Wash System 2 1/2" & > - Pipe	0.83	TN	128.70	107	0.00	0	50.00	42
Screen Wash Pumps	0.77	TN	128.70	99	0.00	0	50.00	39
				299		0		107
HRSG Stacks								
HRSG Stack Foundation Concrete	1,550.00	CY	51.60	79,980	95.00	147,250	0.00	0

Martin Units 3 & 4 Dismantlement Study

Removal, Disposal & Salvage Cost Worksheet	Total Units of Measure	Unit of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Unit Salvage Value	Total Salvage Value
Stack - Unit 3A	131.75	TN	128.70	16,956	0.00	0	50.00	6,588
Stack - Unit 3B	131.75	TN	128.70	16,956	0.00	0	50.00	6,588
Gland Steam Cond - Insulation	1.00	CY	39.00	39	12.00	12	0.00	0
				115,931		147,262		13,175
Lube Oil System								
Lube Oil System 2" & < - Pipe	1.91	TN	171.60	328	0.00	0	50.00	96
Lube Oil System 2 1/2" & > - Pipe	2.42	TN	128.70	311	0.00	0	50.00	121
Lube Oil Transfer/Return Pumps	1.50	TN	128.70	193	0.00	0	50.00	75
S.T. Lube Oil Reservoir	5.00	TN	128.70	644	0.00	0	50.00	250
Turbo L.O. Conditioner	1.00	TN	128.70	129	0.00	0	50.00	50
				1,604		0		591
Cranes and Hoists								
Power Block Gantry Crane	105.00	TN	128.70	13,514	0.00	0	50.00	5,250
Miscellaneous Monorails & Hoists	32.50	TN	128.70	4,183	0.00	0	50.00	1,625
				17,696		0		6,875
Combustion Turbine								
C.T. Atomizing Air Skids	22.50	TN	128.70	2,896	0.00	0	50.00	1,125
C.T. Exhaust Frame Cooling Fan Skids	6.00	TN	171.60	1,030	0.00	0	50.00	300
C.T. Starting Motor Skids	27.50	TN	171.60	4,719	0.00	0	50.00	1,375
C.T. Water Wash Skids	13.00	TN	171.60	2,231	0.00	0	50.00	650
C.T. Lube Oil Skids	53.50	TN	171.60	9,181	0.00	0	50.00	2,675
C.T. Fuel Gas Skids	44.00	TN	171.60	7,550	0.00	0	50.00	2,200
C.T. Halon Skids	2.50	TN	171.60	429	0.00	0	50.00	125
Make-Up Water Storage Tank Fdn	140.00	CY	51.60	7,224	95.00	13,300	0.00	0
Demineralizer System	12.50	TN	171.60	2,145	0.00	0	50.00	625
Make-Up Water Storage Tanks	85.00	TN	171.60	14,586	0.00	0	50.00	4,250
				51,990		13,300		13,325
Closed Cooling Water System								
Closed Cooling Water Heat Exchangers	25.57	TN	171.60	4,388	0.00	0	50.00	1,279
CCW System 2" & < - Pipe	5.57	TN	171.60	955	0.00	0	50.00	278
CCW System 2 1/2" & > - Pipe	73.61	TN	128.70	9,473	0.00	0	50.00	3,680
Closed Cooling Water Pumps	4.88	TN	128.70	627	0.00	0	50.00	244
				15,444		0		5,481
Account 343 Totals:				1,239,976		536,189		614,249
Account 344: Generators								
Steam Turbine Foundation Mat Concrete	714.00	CY	51.60	36,842	95.00	67,830	0.00	0
Steam Turbine Concrete Pedestal	620.00	CY	51.60	31,992	95.00	58,900	0.00	0
C.T. 3A Generator	157.00	TN	97.50	15,308	0.00	0	50.00	7,850
C.T. 3B Generator	157.00	TN	97.50	15,308	0.00	0	50.00	7,850
C.T. Generator Exit Skids	5.00	TN	128.70	644	0.00	0	50.00	250
Generator Copper	18.00	TN	400.00	7,200	0.00	0	710.00	12,780
Generator	200.00	TN	97.50	19,500	0.00	0	50.00	10,000
Account 344 Totals:				126,793		126,730		38,730

Martin Units 3 & 4 Dismantlement Study

Removal, Disposal & Salvage Cost Worksheet	Total Units of Measure	Unit of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Unit Salvage Value	Total Salvage Value
Account 345: Accessory Electric Equipment								
Excitation System								
Generator Excitation Power Transformers	37.50	TN	128.70	4,826	0.00	0	50.00	1,875
Transformer Copper	15.00	TN	300.00	4,500	0.00	0	710.00	10,650
Instrumentation	9.25	TN	171.60	1,587	0.00	0	50.00	463
				10,914		0		12,988
Emergency Diesel Generators								
Diesel Generator Foundations	81.00	CY	51.60	4,180	95.00	7,695	0.00	0
Emergency Diesel Generator	5.02	TN	128.70	648	0.00	0	50.00	251
EDG System 2" & <- Pipe	0.05	TN	171.60	8	0.00	0	50.00	2
				4,833		7,695		253
Electrical Equipment								
Electrical Equipment Pads	412.00	CY	51.60	21,259	95.00	39,140	0.00	0
Station Battery, Charger & Panels	3.00	TN	171.60	515	0.00	0	50.00	150
Grounding & Cathodic Protection	75.00	TN	171.60	12,870	0.00	0	50.00	3,750
Grounding & Cathodic Protection	27.50	TN	171.60	4,719	0.00	0	50.00	1,375
Grounding Grid (Incl Pads, Rods)	6.25	TN	171.60	1,073	0.00	0	50.00	313
Lightning Protection	2.50	TN	171.60	429	0.00	0	50.00	125
Embedded Conduits	237.75	CY	197.80	47,027	0.00	0	0.00	0
Power & Control Conduits	135.15	TN	171.60	23,192	0.00	0	50.00	6,758
Cable Tray	183.18	TN	171.60	31,433	0.00	0	50.00	9,159
Concrete Duct Banks	2,110.00	CY	51.60	108,876	95.00	200,450	0.00	0
Electrical Manholes	69.44	CY	51.60	3,583	95.00	6,597	0.00	0
Isophase Bus	9.00	TN	171.60	1,544	0.00	0	50.00	450
Main Control Boards	13.33	TN	171.60	2,288	0.00	0	50.00	667
Miscellaneous Relay Panels	3.56	TN	171.60	610	0.00	0	50.00	178
Instrument Racks	12.20	TN	171.60	2,094	0.00	0	50.00	610
Annunciators	10.00	TN	171.60	1,716	0.00	0	50.00	500
Miscellaneous Power Transformers	27.50	TN	128.70	3,539	0.00	0	50.00	1,375
Transformer Copper	11.00	TN	300.00	3,300	0.00	0	710.00	7,810
480 V Load Centers	15.00	TN	171.60	2,574	0.00	0	50.00	750
480 V Motor Control Centers	20.00	TN	171.60	3,432	0.00	0	50.00	1,000
Power Cable - 8KV	61.88	TN	468.00	28,958	0.00	0	760.00	47,025
Power Cable - Medium Voltage	37.05	TN	468.00	17,338	0.00	0	760.00	28,156
Electrical Switchgear Foundations	441.00	CY	51.60	22,756	95.00	41,895	0.00	0
Non-Seg Bus	17.78	TN	171.60	3,051	0.00	0	50.00	889
4.16 KV Switchgear	10.00	TN	128.70	1,287	0.00	0	50.00	500
Control Cable	16.19	TN	468.00	7,576	0.00	0	760.00	12,303
Instrumentation Cable	9.24	TN	468.00	4,326	0.00	0	760.00	7,024
Distributed Control System	2.50	TN	276.90	692	0.00	0	50.00	125
				362,056		288,062		130,991
Account 345 Totals:				377,803		293,777		144,232
Account 346: Miscellaneous Power Plant Equipment								
Compressed Air System								
Compressed Air Piping	10.87	TN	276.90	3,009	0.00	0	50.00	543

Martin Units 3 & 4 Dismantlement Study

Removal, Disposal & Salvage Cost Worksheet	Total Units of Measure	Unit of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Unit Salvage Value	Total Salvage Value
Instrument Air System - 2" & < Pipe	1.74	TN	171.60	298	0.00	0	50.00	87
Service Air System 2" & < Pipe	4.41	TN	171.60	756	0.00	0	50.00	220
Instrument Air System - 2 1/2" & > Pipe	2.40	TN	128.70	309	0.00	0	50.00	120
Service Air System 2 1/2" & > Pipe	2.43	TN	128.70	312	0.00	0	50.00	121
Service Air Compressors & Rec.	4.53	TN	171.60	777	0.00	0	50.00	227
Instrument Air Compressors, Rec., & Dryers	9.06	TN	171.60	1,555	0.00	0	50.00	453
				<u>7,017</u>		<u>0</u>		<u>1,771</u>
Other Equipment								
Plant Communications & Phones	2.00	TN	171.60	343	0.00	0	50.00	100
Heat Tracing	1.25	TN	171.60	215	0.00	0	50.00	63
Fire Protection/Detection Equipment	2.50	TN	171.60	429	0.00	0	50.00	125
Miscellaneous Electrical Items	20.00	TN	171.60	3,432	0.00	0	50.00	1,000
				<u>4,419</u>		<u>0</u>		<u>1,288</u>
Account 346 Totals:				<u>11,436</u>		<u>0</u>		<u>3,059</u>
Account 353								
Substation Equipment								
Main Transformers Fdns	150.00	CY	51.60	7,740	95.00	14,250	0.00	0
Main Power Transformer	125.50	TN	171.60	21,536	0.00	0	50.00	6,275
Transformer Copper	50.20	TN	300.00	15,060	0.00	0	710.00	35,642
Conduit & Duct	2.00	TN	276.90	554	0.00	0	50.00	100
Concrete	120.00	CY	20.64	2,477	95.00	11,400	0.00	0
Insulators	25.80	TN	276.90	7,144	0.00	0	50.00	1,290
Bus & Copper Tubing	0.50	TN	300.00	150	0.00	0	710.00	355
Oil Circuit Breakers	325.00	TN	276.90	89,993	0.00	0	50.00	16,250
Air Brake & Disconnect Switches	100.00	TN	171.60	17,160	0.00	0	50.00	5,000
Lightning & Surge Protection	15.00	TN	171.60	2,574	0.00	0	50.00	750
Instrument Transformers	25.00	TN	171.60	4,290	0.00	0	50.00	1,250
Oil Breakers - Foundation	20.00	CY	51.60	1,032	95.00	1,900	0.00	0
Steel Structures & Supports	110.00	TN	128.70	14,157	0.00	0	50.00	0
Start-Up & Aux Transformers	25.00	TN	171.60	4,290	0.00	0	50.00	1,250
Start-Up & Aux Transformers Fdns.	751.00	CY	51.60	38,752	95.00	71,345	0.00	0
Account 353 Totals:				<u>226,908</u>		<u>98,695</u>		<u>68,162</u>
Unit 3 Totals				<u>3,380,234</u>		<u>2,632,669</u>		<u>1,062,181</u>
Unit 4								
Account 341: Structures and Improvements								
Lighting and Fire Protection Systems								
Yard Lighting	5.50	TN	276.90	1,523	0.00	0	50.00	275
Plant Lighting	2.00	TN	276.90	554	0.00	0	50.00	100
Fire Protection System Foundation	213.00	CY	51.60	10,991	95.00	20,235	0.00	0
Sanitary Sewer Piping Foundations	18.22	CY	51.60	940	95.00	1,731	0.00	0
				<u>14,008</u>		<u>21,966</u>		<u>375</u>
Power Block								
Power Block - Structural Steel	1,044.00	TN	128.70	134,363	0.00	0	50.00	52,200
Base Plates Unit 4A	20.00	TN	128.70	2,574	0.00	0	50.00	1,000

Martin Units 3 & 4 Dismantlement Study

Removal, Disposal & Salvage Cost Worksheet	Total		Removal	Total	Disposal	Total	Unit	Total
	Units of Measure	Unit of Measure	Cost per Unit of Measure	Removal Cost	Cost per Unit of Measure	Disposal Cost	Salvage Value	Salvage Value
Base Plates Unit 4B	20.00	TN	128.70	2,574	0.00	0	50.00	1,000
Power Block - Handrail, Toeblock, Misc.	5.00	TN	276.90	1,385	0.00	0	50.00	250
Power Block - Decking	301.59	TN	276.90	83,510	0.00	0	50.00	15,080
Power Block - Ladders, Stairs & Platforms	58.00	TN	276.90	16,060	0.00	0	50.00	2,900
HRSG Structural/Ductwork - Unit 3A	210.05	TN	171.60	36,045	0.00	0	50.00	10,503
HRSG Structural/Ductwork - Unit 3B	205.05	TN	171.60	35,187	0.00	0	50.00	10,253
Lighting Panels	0.03	TN	276.90	7	0.00	0	50.00	1
Power Block Grade Slab Concrete	2,102.00	CY	51.60	108,463	95.00	199,690	0.00	0
Power Block Structure Foundation Concrete	2,432.00	CY	51.60	125,491	95.00	231,040	0.00	0
Power Block Elevated Slabs	581.00	CY	51.60	29,980	95.00	55,195	0.00	0
HRSG Analyzer Buildings (2 ea)	200.00	CY	51.60	10,320	95.00	19,000	0.00	0
HRSG DCS Buildings (2 ea)	152.89	CY	51.60	7,889	95.00	14,524	0.00	0
				<u>593,847</u>		<u>519,449</u>		<u>93,186</u>
Open Cooling Water System								
OCW System 2" & < - Pipe	0.42	TN	171.60	71	0.00	0	50.00	21
OCW System 2 1/2" & > - Pipe	42.57	TN	128.70	5,479	0.00	0	50.00	2,129
OCW Duplex Basket Strainers	0.15	TN	171.60	26	0.00	0	50.00	8
Open Cooling Water Pumps	11.80	TN	128.70	1,519	0.00	0	50.00	590
Open Cooling Water Booster Pumps	9.80	TN	128.70	1,262	0.00	0	50.00	490
				<u>8,356</u>		<u>0</u>		<u>3,237</u>
Pond Water System								
Pond Water System 2" & < - Pipe	0.25	TN	171.60	42	0.00	0	50.00	12
Pond Water System 2 1/2" & > - Pipe	4.11	TN	128.70	529	0.00	0	50.00	206
Pond Water Booster Pumps	3.27	TN	128.70	421	0.00	0	50.00	163
				<u>992</u>		<u>0</u>		<u>381</u>
Water Treatment System								
Service Water System 2" & < - Pipe	2.17	TN	128.70	372	0.00	0	50.00	108
Service Water System 2 1/2" & > - Pipe	2.30	TN	128.70	119	0.00	0	50.00	115
Service Water Pumps	0.57	TN	171.60	97	0.00	0	50.00	28
HRSG Blowdown Tank Sump	200.00	CY	51.60	10,320	95.00	19,000	0.00	0
Wastewater System 2" & < - Pipe	1.85	TN	171.60	317	0.00	0	50.00	92
Power Block Drainage Pipe Foundations	63.56	CY	20.64	1,312	95.00	6,038	0.00	0
Wastewater System 2 1/2" & > - Pipe	117.95	TN	128.70	15,180	0.00	0	50.00	5,897
Sump Pumps	8.75	TN	128.70	1,126	0.00	0	50.00	438
Sump Pumps & Miscellaneous	2.00	TN	128.70	257	0.00	0	50.00	100
Potable Water System	18.37	CY	20.64	379	95.00	1,745	0.00	0
Pipe Rack Drilled Piers - Concrete	657.00	CY	51.60	33,901	95.00	62,415	0.00	0
Switchgear Building	200.00	CY	51.60	10,320	95.00	19,000	0.00	0
				<u>73,700</u>		<u>108,198</u>		<u>201,136</u>
Account 341 Totals:				690,902		649,614		298,315
Account 342: Fuel Holders, Producers and Accessories								
Gas System								
Natural Gas System 2" & < - Pipe	0.05	TN	171.60	8	0.00	0	50.00	2
Gas Piping	82.23	TN	171.60	14,110	0.00	0	50.00	4,111
Natural Gas System 2 1/2" & > - Pipe	17.00	TN	128.70	2,187	0.00	0	50.00	850

Martin Units 3 & 4 Dismantlement Study

Removal, Disposal & Salvage Cost Worksheet	Total Units of Measure	Unit of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Unit Salvage Value	Total Salvage Value
Liquid Fuel System 2 1/2" & > - Pipe	24.63	TN	128.70	3,170	0.00	0	50.00	1,232
Account 342 Totals:				19,475		0		6,195
Account 343: Prime Movers								
HRSR Foundation	1,212.00	CY	51.60	62,539	95.00	115,140	0.00	0
HRSR Mechanical - Unit 4A	158.80	TN	97.50	15,483	0.00	0	50.00	7,940
HRSR Mechanical - Unit 4B	162.30	TN	97.50	15,824	0.00	0	50.00	8,115
Mechanical Finishes - Casings	86.45	TN	128.70	8,552	0.00	0	50.00	3,323
Modules - Unit 4A	2,350.65	TN	97.50	229,188	0.00	0	50.00	117,533
Modules - Unit 4B	2,420.70	TN	97.50	236,018	0.00	0	50.00	121,035
HRSR Blowdown System 2 1/2" & > - Pipe	16.66	TN	128.70	2,144	0.00	0	50.00	833
Electrical & Controls - Unit 4A	27.50	TN	171.60	4,719	0.00	0	50.00	1,375
Electrical & Controls - Unit 4B	27.50	TN	171.60	4,719	0.00	0	50.00	1,375
				579,187		115,140		261,528
Feedwater System								
Feedwater System 2" & < - Pipe	2.40	TN	171.60	412	0.00	0	50.00	120
Feedwater System 2 1/2" & > - Pipe	52.19	TN	128.70	6,716	0.00	0	50.00	2,609
HRSR HP Feedwater Pumps	8.25	TN	128.70	1,062	0.00	0	50.00	413
HRSR LP Feedwater Pumps	8.25	TN	128.70	1,062	0.00	0	50.00	413
HRSR Feed Pump Foundations Concrete	620.00	CY	51.60	31,992	95.00	58,900	0.00	0
Deaerator Make-Up Pumps	2.79	TN	128.70	359	0.00	0	50.00	139
H P Feed Pumps - Insulation	12.62	CY	39.00	492	12.00	151	0.00	0
L P Feed Pumps - Insulation	2.22	CY	39.00	87	12.00	27	0.00	0
L/B Feedwater Piping - Insulation	99.05	CY	39.00	3,863	12.00	1,189	0.00	0
				46,044		60,267		3,694
Combustion Turbine								
Combustion Turbine Fdn Concrete	1,682.00	CY	51.60	86,791	95.00	159,790	0.00	0
Condensate Pump Casings	0.50	TN	171.60	86	0.00	0	50.00	25
Miscellaneous Mechanical Equipment Fdns < 25cy	117.00	CY	51.60	6,037	95.00	11,115	0.00	0
C.T. Skid Mounted Equipment Fdn Concrete Pads	106.00	CY	51.60	5,470	95.00	10,070	0.00	0
C.T. 4A Combustion Turbine	188.50	TN	97.50	18,379	0.00	0	50.00	9,425
C.T. 4B Combustion Turbine	188.50	TN	97.50	18,379	0.00	0	50.00	9,425
C.T. 4A Insulation	28.89	CY	39.00	1,127	12.00	347	0.00	0
C.T. 4B Insulation	28.89	CY	39.00	1,127	12.00	347	0.00	0
C.T. Interconnect Pipe 2 1/2" & > - Pipe	108.22	TN	128.70	13,928	0.00	0	50.00	5,411
C.T. Interconnect Pipe 2" & < - Pipe	9.89	TN	171.60	1,697	0.00	0	50.00	494
				153,019		161,668		24,760
Main Steam System								
Main Steam System 2 1/2" & > Pipe	1,036.13	TN	128.70	133,349	0.00	0	50.00	51,806
L/B Main Steam Piping - Insulation	171.03	CY	39.00	6,670	12.00	2,052	0.00	0
Aux Boiler System 2" & < - Pipe	0.79	TN	171.60	135	0.00	0	50.00	39
Aux Boiler System 2 1/2" & > - Pipe	3.00	TN	128.70	386	0.00	0	50.00	150
L/B Auxiliary Boiler Piping - Insulation	7.67	CY	39.00	299	12.00	92	0.00	0
L/B B.O.P. Piping - Insulation	3.80	CY	39.00	148	12.00	46	0.00	0
				140,968		2,190		51,996

Martin Units 3 & 4 Dismantlement Study

Removal, Disposal & Salvage Cost Worksheet	Total Units of Measure	Unit of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Unit Salvage Value	Total Salvage Value
Blowdown System								
HRSG Blowdown System 2" & Under - Pipe	0.69	TN	171.60	119	0.00	0	50.00	35
HRSG Blowdown Tanks	4.74	TN	128.70	610	0.00	0	50.00	237
Main Steam Drain Tanks	2.88	TN	128.70	370	0.00	0	50.00	144
HRSG Blowdown Tanks - Insulation	3.58	CY	39.00	140	12.00	43	0.00	0
Steam Drain Tanks - Insulation	6.71	CY	39.00	262	12.00	81	0.00	0
Mechanical Finishes - Insulation	100.00	CY	39.00	3,900	12.00	1,200	0.00	0
				<u>5,400</u>		<u>1,323</u>		<u>415</u>
Steam Turbine								
Steam Turbines - Insulation	6.00	CY	39.00	234	12.00	72	0.00	0
Main Steam System 2" & < - Pipe	7.63	TN	171.60	1,309	0.00	0	50.00	381
Steam Turbine Base Plates	25.00	TN	97.50	2,438	0.00	0	50.00	1,250
Steam Turbine & Accessories	175.00	TN	128.70	22,523	0.00	0	50.00	8,750
Hydraulic Power Unit	1.50	TN	128.70	193	0.00	0	50.00	75
Instrument Tubing	3.61	TN	171.60	619	0.00	0	50.00	180
				<u>27,315</u>		<u>72</u>		<u>10,637</u>
Condensate System								
Condensate System 2" & < - Pipe	2.07	TN	171.60	354	0.00	0	50.00	103
Condensate System 2 1/2" & > - Pipe	80.80	TN	128.70	10,398	0.00	0	50.00	4,040
L/B Condensate Piping - Insulation	33.60	CY	39.00	1,310	12.00	403	0.00	0
Condenser Vacuum Pump Skid & Equip	1.25	TN	128.70	161	0.00	0	50.00	63
Condensate Storage Tank Fdn	14.00	CY	51.60	722	95.00	1,330	0.00	0
Condensate Make-Up Pumps	0.75	TN	128.70	97	0.00	0	50.00	38
HRSG Chemical Fd. System 2" & < - Pipe	1.02	TN	171.60	175	0.00	0	50.00	51
HRSG Chemical Feed Skids	7.50	TN	128.70	965	0.00	0	50.00	375
Lube Oil Storage Tanks	3.26	TN	128.70	420	0.00	0	50.00	163
Miscellaneous Process Tanks	5.30	TN	128.70	682	0.00	0	50.00	265
Condensate Transfer System 2" & < - Pipe	2.15	TN	171.60	369	0.00	0	50.00	108
Condensate Transfer System 2 1/2" & > - Pipe	48.66	TN	128.70	6,263	0.00	0	50.00	2,433
Condensate Pumps	2.39	TN	128.70	308	0.00	0	50.00	120
Condensate Transfer Pumps	2.39	TN	128.70	308	0.00	0	50.00	120
Condensate Storage Tanks	1.20	TN	128.70	154	0.00	0	50.00	60
Bulk Gas System 2" & < - Pipe	5.79	TN	171.60	994	0.00	0	50.00	290
Condensers	264.40	TN	128.70	34,028	0.00	0	710.00	187,724
Gland Steam Condensers	2.50	TN	128.70	322	0.00	0	50.00	125
Condensate Air Rem System 2" & < - Pipe	1.26	TN	171.60	216	0.00	0	50.00	63
Condensate Air Rem System 2 1/2" & > - Pipe	3.53	TN	128.70	454	0.00	0	50.00	176
				<u>58,699</u>		<u>1,733</u>		<u>196,314</u>
Circulating Water System								
Circulating Water System 2" & < - Pipe	0.75	TN	171.60	128	0.00	0	50.00	37
Circulating Water System 2 1/2" & > - Pipe	1.59	TN	128.70	205	0.00	0	50.00	80
L/B Circulating Water Piping - Insulation	0.31	CY	39.00	12	12.00	4	0.00	0
Circulating Water Pumps	47.98	TN	171.60	8,233	0.00	0	50.00	2,399
C W Chem Tr System 2" & < - Pipe	0.45	TN	171.60	77	0.00	0	50.00	23
24" Diameter ICW Pipe	26.67	CY	197.80	5,275	0.00	0	0.00	0
84" Diameter ICW Pipe	388.89	CY	197.80	76,922	0.00	0	0.00	0

Martin Units 3 & 4 Dismantlement Study

Removal, Disposal & Salvage Cost Worksheet	Total Units of Measure	Unit of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Unit Salvage Value	Total Salvage Value
Concrete - Cofferdam Area	295.00	CY	51.60	15,222	95.00	28,025	0.00	0
66" Diameter Inground CW Pipe	12.22	CY	197.80	2,418	0.00	0	0.00	0
				108,491		28,029		2,538
Screen Wash System								
Intake Bar Rack & Cleaning Rake	2.50	TN	171.60	429	0.00	0	50.00	125
Intake Traveling Screens	16.00	TN	171.60	2,746	0.00	0	50.00	800
Screen Wash Bubbler System Equipment	0.50	TN	171.60	86	0.00	0	50.00	25
Screen Wash System 2" & < - Pipe	0.04	TN	171.60	7	0.00	0	50.00	2
Screen Wash System 2 1/2" & > - Pipe	0.83	TN	128.70	107	0.00	0	50.00	42
Screen Wash Pumps	0.77	TN	128.70	99	0.00	0	50.00	39
				3,474		0		1,032
HRSO Stack								
HRSO Stack Foundation Concrete	1,550.00	CY	51.60	79,980	95.00	147,250	0.00	0
Stack - Unit 4A	131.75	TN	128.70	16,956	0.00	0	50.00	6,588
Stack - Unit 4B	131.75	TN	128.70	16,956	0.00	0	50.00	6,588
Gland Steam Condenser - Insulation	1.00	CY	39.00	39	12.00	12	0.00	0
				113,931		147,262		13,176
Lube Oil System								
Lube Oil System - 2" & < Pipe	1.64	TN	171.60	281	0.00	0	50.00	82
Lube Oil System - 2 1/2" & > Pipe	2.58	TN	128.70	332	0.00	0	50.00	129
Lube Oil Transfer/Return Pumps	1.50	TN	128.70	193	0.00	0	50.00	75
S.T. Lube Oil Reservoir	5.00	TN	128.70	644	0.00	0	50.00	250
Turbo Lube Oil Conditioner	1.00	TN	128.70	129	0.00	0	50.00	50
				1,378		0		586
Cranes and Hoists								
Miscellaneous Monorails & Hoists	32.50	TN	171.60	5,577	0.00	0	50.00	1,625
Combustion Turbine								
C.T. Atomizing Air Skids	22.50	TN	171.60	3,861	0.00	0	50.00	1,125
C.T. Exhaust Frame Cooling Fan Skids	6.00	TN	171.60	1,030	0.00	0	50.00	300
C.T. Starting Motor Skids	27.50	TN	171.60	4,719	0.00	0	50.00	1,375
C.T. Water Wash Skids	13.00	TN	171.60	2,231	0.00	0	50.00	650
C.T. Lube Oil Skids	53.50	TN	171.60	9,181	0.00	0	50.00	2,675
C.T. Fuel Gas Skids	44.00	TN	171.60	7,550	0.00	0	50.00	2,200
C.T. Halon Skids	2.50	TN	171.60	429	0.00	0	50.00	125
				29,000		0		8,450
Closed Cooling Water System								
Closed Cooling Water Heat Exchanger	25.57	TN	171.60	4,388	0.00	0	50.00	1,279
CCW System 2" & < - Pipe	5.52	TN	171.60	947	0.00	0	50.00	276
CCW System 2 1/2" & > - Pipe	73.02	TN	128.70	9,398	0.00	0	50.00	3,651
Closed Cooling Water Pumps	4.88	TN	128.70	627	0.00	0	50.00	244
				15,360		0		5,449
Account 343 Totals				1,288,065		537,684		582,219

Martin Units 3 & 4 Dismantlement Study

Removal, Disposal & Salvage Cost Worksheet	Total Units of Measure	Unit of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Unit Salvage Value	Total Salvage Value
Account 344: Generators								
Steam Turbine Foundation Mat Concrete	734.00	CY	51.60	37,874	95.00	69,730	0.00	0
Steam Turbine Pedestal Concrete	620.00	CY	51.60	31,992	95.00	58,900	0.00	0
C.T. 4A Generator	157.00	TN	97.50	15,308	0.00	0	50.00	7,850
C.T. 4B Generator	157.00	TN	97.50	15,308	0.00	0	50.00	7,850
C.T. Generator Exit Skids	5.00	TN	97.50	488	0.00	0	50.00	250
Generator Copper	18.00	TN	400.00	7,200	0.00	0	710.00	12,780
Generator	200.00	TN	97.50	19,500	0.00	0	50.00	10,000
Account 344 Totals				127,669		128,630		38,730
Account 345: Accessory Electric Equipment								
Excitation Equipment								
Generator Excitation Power Transformers	37.50	TN	128.70	6,435	0.00	0	50.00	1,875
Transformer Copper	15.00	TN	300.00	4,500	0.00	0	710.00	10,650
Instrumentation	8.61	TN	171.60	444	0.00	0	50.00	431
				11,379		0		12,956
Electrical Equipment								
Electrical Equipment Pads Concrete	75.00	CY	51.60	3,870	95.00	7,125	0.00	0
Uninterruptible Power Supply	0.50	TN	171.60	86	0.00	0	50.00	25
Station Battery Charger & Panels	3.00	TN	171.60	515	0.00	0	50.00	150
Grounding & Cathodic Protection	27.50	TN	171.60	4,719	0.00	0	50.00	1,375
Grounding Grid (Incl. Pads Rods)	5.53	TN	171.60	950	0.00	0	50.00	277
Lightning Protection	2.50	TN	171.60	429	0.00	0	50.00	125
Embedded Conduits Foundations	230.34	CY	51.60	11,886	95.00	21,882	0.00	0
Power & Control Conduits	109.66	TN	171.60	18,818	0.00	0	50.00	5,483
Cable Tray	152.16	TN	171.60	26,111	0.00	0	50.00	7,608
Concrete Duct Banks	2,261.00	CY	51.60	116,668	95.00	214,795	0.00	0
Electrical Manholes	41.67	CY	20.64	860	95.00	3,958	0.00	0
Isophase Bus	9.00	TN	171.60	1,544	0.00	0	50.00	450
Main Control Boards	13.33	TN	171.60	2,288	0.00	0	50.00	667
Miscellaneous Relay Panels	3.56	TN	171.60	610	0.00	0	50.00	178
Instrument Racks	10.80	TN	171.60	1,853	0.00	0	50.00	540
Annunciators	5.00	TN	171.60	858	0.00	0	50.00	250
Miscellaneous Power Transformers	27.50	TN	171.60	4,719	0.00	0	50.00	1,375
208/120V AC Distribution Panels	0.89	TN	171.60	153	0.00	0	50.00	44
480 V Load Centers	7.50	TN	171.60	1,287	0.00	0	50.00	375
480 V Motor Control Centers	17.50	TN	171.60	3,003	0.00	0	50.00	875
480V AC Distribution Panels	3.30	TN	171.60	566	0.00	0	50.00	165
Power Cable - 8KV	60.65	TN	468.00	28,382	0.00	0	50.00	3,032
Power Cable - Medium Voltage	30.42	TN	468.00	14,236	0.00	0	50.00	1,521
Electrical Switchgear Foundation Concrete	441.00	CY	51.60	22,756	95.00	41,895	0.00	0
Non-Seg Bus	17.78	TN	171.60	3,051	0.00	0	50.00	889
4.16 KV Switchgear	7.50	TN	171.60	1,287	0.00	0	50.00	375
Control Cable	16.08	TN	468.00	7,527	0.00	0	50.00	804
Instrumentation Cable	7.41	TN	468.00	3,466	0.00	0	50.00	370
Distributed Control System	2.50	TN	171.60	429	0.00	0	50.00	125
				282,925		289,656		27,078

Martin Units 3 & 4 Dismantlement Study

Removal, Disposal & Salvage Cost Worksheet	Total Units of Measure	Unit of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Unit Salvage Value	Total Salvage Value
Account 345 Totals				294,300		269,656		40,034
Account 346: Miscellaneous Plant Equipment								
Compressed Air Piping	10.74	TN	171.60	1,844	0.00	0	50.00	537
Instrument Air System 2" & < Pipe	0.15	TN	171.60	25	0.00	0	50.00	7
Service Air System 2" & < Pipe	2.85	TN	171.60	489	0.00	0	50.00	143
Instrument Air System 2 1/2" & > Pipe	1.57	TN	128.70	201	0.00	0	50.00	78
Service Air System 2 1/2" & > Pipe	1.83	TN	128.70	235	0.00	0	50.00	91
Instrument Air Compressors, Rec. & Dryers	9.06	TN	171.60	1,555	0.00	0	50.00	453
Plant Communications & Phones	2.00	TN	171.60	343	0.00	0	50.00	100
Heat Tracing	1.25	TN	171.60	215	0.00	0	50.00	63
Fire Protection/Detection Equipment	2.50	TN	171.60	429	0.00	0	50.00	125
Miscellaneous Electrical Items	20.00	TN	171.60	3,432	0.00	0	50.00	1,000
Account 346 Totals				6,767		0		2,397
Account 353								
Substation Equipment								
Main Transformers Foundations - Incl. Fire Walls	330.00	CY	51.60	17,028	95.00	31,350	0.00	0
Main Power Transformer	125.50	TN	171.60	21,536	0.00	0	50.00	6,275
Transformer Copper	50.20	TN	300.00	15,060	0.00	0	710.00	35,642
Conduit & Duct	2.00	TN	276.90	554	0.00	0	50.00	100
Concrete	120.00	CY	20.64	2,477	95.00	11,400	0.00	0
Insulators	25.80	TN	276.90	7,144	0.00	0	50.00	1,290
Bus & Copper Tubing	0.50	TN	300.00	150	0.00	0	710.00	355
Oil Circuit Breakers	325.00	TN	276.90	89,993	0.00	0	50.00	16,250
Air Brake & Disconnect Switches	100.00	TN	171.60	17,160	0.00	0	50.00	5,000
Lightning & Surge Protection	15.00	TN	171.60	2,574	0.00	0	50.00	750
Instrument Transformers	25.00	TN	171.60	4,290	0.00	0	50.00	1,250
Oil Breakers - Foundation	20.00	CY	51.60	1,032	95.00	1,900	0.00	0
Steel Structures & Supports	110.00	TN	128.70	14,157	0.00	0	50.00	5,500
Start-Up & Aux Transformers Fdns.	751.00	CY	51.60	38,752	95.00	71,345	0.00	0
Liquid Fuel System 2" & < - Pipe	0.52	TN	171.60	89	0.00	0	50.00	26
Account 353 Totals:				231,994		115,995		72,436
Unit 4 Totals				2,661,176		1,721,579		1,040,526
Unit 3 & 4 Totals				6,041,432		4,354,447		2,102,710

PORT EVERGLADES PLANT

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Port Everglades Plant

The Port Everglades Plant is located on a 93-acre site in Broward County at the Port Everglades seaport, which is near the cities of Hollywood and Ft. Lauderdale, Florida. The plant site includes four generating units, twelve gas turbine modules and ten fuel oil storage tanks. Units No. 1 and 2 are identical, consisting of two complete Westinghouse Electric Corporation condensing turbines driving hydrogen cooled generators. The turbine generators are supplied with steam by two complete Combustion Engineering Incorporated, steam generating units which are the integral furnace, single steam drum, waterwall, radiant, reheat type. The two units have a combined maximum generator nameplate rating of 451 megawatts. Units No. 1 and 2 went into commercial operation during 1960 and 1961, respectively.

Units No. 3 and 4 are also identical and consist of two General Electric Company condensing steam turbines driving liquid and gas cooled generators. Each turbine generator is served by a complete Foster Wheeler Corporation gas fired, natural circulation, reheat type unit, containing an economizer, waterwall heating surface, a combination radiant convection superheater, a convection reheater and an air preheater. The two units have a combined maximum generator nameplate rating of 804 megawatts. Units No. 3 and 4 went into commercial operation during 1964 and 1965 respectively.

The twelve gas turbine modules are used as peaking units. Each module consists of two Pratt and Whitney gas generators coupled to a Worthington power turbine, which drives an Electric Machinery Company generator. The combined maximum generator nameplate rating for the gas turbines is 411 megawatts.

Florida Power & Light Company last requested and received approval for dismantlement accruals for the Port Everglades plant in docket No. 941343-EI, Order No. PSC-95-1532-FOF-EI, issued on December 12, 1995. The current accruals became effective as of January 1, 1995.

**PORT EVERGLADES
SUMMARY OF DISMANTLEMENT COSTS**

FERC Account	Description	Removal Cost (A)	Disposal Cost (B)	Salvage Value (C)	Total (D)=(A + B - C)
<u>Port Everglades Common</u>					
311	Structures and Improvements	1,099,317	1,150,518	140,310	2,109,525
312	Boiler Plant Equipment	3,247	0	900	2,347
314	Turbogenerator Units	29,962	5,742	5,700	30,004
315	Accessory Electrical Equipment	109,858	8,910	50,827	67,942
316	Miscellaneous Equipment	7,759	0	1,675	6,084
	Subtotal	1,250,143	1,165,170	199,412	2,215,901
<u>Transmission Plant</u>					
353	Substation Equipment	661,880	38,412	287,818	412,474
<u>Other Site Costs:</u>					
	Site Mangement Expenses	763,776			763,776
	Intake & Discharge Backfill	144,990			144,990
	Grading & Seeding	2,124,091			2,124,091
	Subtotal	3,032,857	0	0	3,032,857
	Total	4,944,880	1,203,582	487,229	5,661,233
	Contingency - 16%	791,181	192,573		983,754
	Total Port Everglades Common	5,736,061	1,396,155	487,229	6,644,987
	Unusable M&S Inventory	565,020		84,753	480,267
		6,301,081	1,396,155	571,982	7,125,254
<u>Port Everglades Units 1 & 2</u>					
311	Structures and Improvements	1,062,225	178,068	10,572	1,229,721
312	Boiler Plant Equipment	2,851,748	663,588	602,637	2,912,698
314	Turbogenerator Units	3,223,353	288,772	177,902	3,334,223
315	Accessory Electrical Equipment	403,583	22,671	431,064	(4,810)
316	Miscellaneous Equipment	0	0	0	0
	Subtotal	7,540,909	1,153,099	1,222,175	7,471,832
	Contingency - 16%	1,206,545	184,496		1,391,041
	Total Port Everglades Units 1 & 2	8,747,454	1,337,594	1,222,175	8,862,873
<u>Port Everglades Units 3 & 4</u>					
311	Structures and Improvements	1,072,484	604,665	48,294	1,628,855
312	Boiler Plant Equipment	6,272,849	971,470	719,054	6,525,265
314	Turbogenerator Units	2,952,258	250,418	874,019	2,328,657
315	Accessory Electrical Equipment	226,208	25,278	139,767	111,720
316	Miscellaneous Equipment	0	0	0	0
	Subtotal	10,523,799	1,851,831	1,781,134	10,594,496
	Contingency - 16%	1,683,808	296,293		1,980,101
	Total Port Everglades Units 3 & 4	12,207,607	2,148,124	1,781,134	12,574,597
<u>Port Everglades Gas Turbines</u>					
341	Structures and Improvements	5,400	3,300	0	8,700
342	Fuel Holders, Producers and Accessories	120,000	89,390	17,000	192,390
343	Prime Movers	127,453	0	47,100	80,353
344	Generators	140,614	0	58,710	81,904
345	Accessory Electric Equipment	73,100	0	60,326	12,774
	Subtotal	466,567	92,690	183,136	376,121
	Contingency - 16%	74,651	14,830		89,481
	Total Port Everglades Gas Turbines	541,218	107,520	183,136	465,602
	Total Dismantlement Costs	27,797,360	4,989,394	3,758,427	29,028,327

**PORT EVERGLADES
DISMANTLEMENT COST FOR INFLATION PROJECTION**

Description	Labor (A)	Material & Equipment (B)	Burial (C)	Salvage (D)	Total (A) + (B) + (C) - (D)
Port Everglades Common	3,441,636	2,859,445	1,396,155	571,982	7,125,254
Port Everglades Units 1 & 2	5,248,473	3,498,982	1,337,594	1,222,175	8,862,873
Port Everglades Units 3 & 4	7,324,564	4,883,043	2,148,124	1,781,134	12,574,597
Port Everglade Gas Turbines	324,731	216,487	107,520	183,136	465,602
Total	16,339,404	11,457,956	4,989,394	3,758,427	29,028,327

Labor is 60% of Removal Cost from Summary of Dismantlement Costs.
 Material & Equipment is 40% of Removal Cost from Summary of Dismantlement Costs.
 Burial is 100% of Disposal Cost from Summary of Dismantlement Costs.
 Salvage is 100% of Salvage from Summary of Dismantlement Costs.

PORT EVERGLADES DISMANTLEMENT ASSUMPTIONS

FPL will provide management personnel for the dismantlement effort.

FPL will prepare the request for proposal package and solicit bids for the decommissioning effort.

FPL will provide site security during the dismantlement.

FPL will hire a demolition contractor to perform the actual dismantling work. This contractor will have the salvage rights to all plant equipment and structural material.

The land will be made available for future use.

All dismantling work will be done in accordance with OSHA regulations.

The fuel oil storage tanks will be cleaned and their contents disposed of according to the requirements of current regulations.

The following items will be removed:

- a. All structures, equipment, and concrete pads, pedestals, foundations, etc.;
- b. All underground gas, oil, sewer and water piping and electrical conduits (underground concrete piping to be collapsed);
- c. All hazardous and contaminated materials, e.g., acid filled lead batteries, oil tank residue.

Discussions with FPL's Power Generation Services Department (PGS) indicate that the return of the site to a green field condition entails removal of all structures above the wood pilings and steel-encased concrete pilings. The removal of the pilings would be unfeasible and, therefore, will remain in place.

The turbine pedestals and chimney will be control-blasted.

Scrap will be unprepared, i.e., cut only to the extent required to load the pieces on scrap dealers' trailers. Trucking costs for removal are paid by the scrap dealer and are reflected in the salvage value paid.

The estimate does not reflect land value or its resale.

The productivity factors employed are assumed valid for purposes of this study.

A contingency of 16% has been applied to the total removal and disposal costs. This contingency percentage covers costs associated with delays occurring after dismantlement begins due to such causes as equipment failure and weather delays.

The costs of such overhead items as project management, site security, etc., have been estimated by FPL's PGS Department. These costs are listed on the cost summary pages for each site's dismantlement study.

All materials and equipment are assumed to be either fully salvageable or to be disposed of completely. The availability of powerful cutting shears makes possible the cutting of even the heaviest steel to a size that permits salvage as scrap. Any unusable materials and supplies inventory will be sold as scrap. Estimated balances of such inventory (with an assumption of a 15% salvage value) have been included on the cost summary pages for each site's dismantlement study.

A 30% swell factor is used to compute the disposal cost per cubic yard of concrete. One cubic yard of concrete becomes 1.3 cubic yards of concrete rubble after demolition.

The switchyard and ancillary equipment (FERC account 353) will remain in place with the exception of the main power transformers, oil circuit breakers, superstructures, and foundations associated with the tie-in of plant generated power in the switchyard.

The turbine pedestals and chimneys will be control-blasted.

Transformer and circuit breaker insulating oils are assumed not to contain PCB's. Therefore, the transformers and oil circuit breakers will be salvageable.

It is assumed that dismantlement activity at Port Everglades plant will begin five years after end of service. The end of service dates used for this assumption conform to the economic recovery period ending dates used in the Port Everglades plant depreciation study filed as of year end 1997.

Asbestos abatement activity is currently driven by maintenance considerations and it is not appropriate to assume that significant quantities will be abated by the units' end of service dates. Though some abatement has occurred, substantial amounts of asbestos remain and can be expected to require abatement at final dismantlement. FPL's PGS Department has estimated the cost of asbestos removal at \$1,250 per cubic yard and disposal at \$100 per cubic yard. These rates are supported by recent FPL experience.

DISMANTLING ACTIVITIES: OIL & GAS & OTHER PRODUCTION PLANTS

- Remove loose equipment, furniture, and spare parts.
- Drain liquids, drum-up, and dispose of drums.
- Remove hazardous materials; i.e., leads (alkaline), acids, solvents, lubricants, oils, chemicals, and gasses.
- Strip all insulation and covering, package and remove to acceptable landfill.
- Collapse circulating water lines and backfill trenches.
- Remove main steam, hot and cold piping, downcomers, valves, and supports, pumps, motors, generator auxiliary equipment, feedwater heaters, soot blowers, and condensers.
- Remove intake and discharge structures, equipment pumps, piping and valves.
- Remove systems that must be completed prior to the start of the boiler removal including lube oil pumps, all piping, instrument and electrical systems.
- Remove forced drafts and induced draft ductwork, air heaters and fans.
- Remove hoppers, burners, upper and lower headers, manways, and waterwalls.
- Remove heavy steel structures and above ground steel – pre-cut key members, lower and cut at ground level.
- Disassemble crane, boiler feed pumps, and turbine generator.
- Separate scrap metals, and remove to scrap yard.
- Remove and dispose of miscellaneous rubble.
- Remove turbine pedestal, foundation, and heavy concrete structures and building, stack foundations, equipment foundations, substructures, support buildings and stacks. Remove to landfill.
- Cut off piles and remove pile caps. Remove concrete encased duct banks and underground piping.
- Remove septic tank and backfill.
- Remove underground storage tanks.
- Test and remove contaminated soil/bases – all areas.
- Install environmental monitoring equipment such as wells.
- Remove or improve remaining site facilities such as buildings, fences, parking areas in accordance with local code and regulations.
- Install/modify existing site storm water runoff system.

DISMANTLING ACTIVITIES: OIL & GAS AND OTHER PRODUCTION PLANTS

(Continued)

- Remove switchyard electrical equipment, structures, and foundations. Modify services to remaining occupied structures as required.
- Remove gas supply metering site, valve stations, underground distribution system.
- Backfill, site grading, seeding, mulching.
- Remove solid and liquid wastes from waste treatment processing areas – landfilled material, precipitated material in ponds and tanks, contaminated resins and reactants.
- Remove marine facilities such as fuel unloading docks, equipment, bridges, and dams.
- Cut and remove fuel oil tanks, piping, valves, and supports.
- Remove top soil/gravel, backfill, and remove barrier wall foundation.

DEVELOPMENT OF COST FACTORS

Cost factors have been developed to compute the net salvage value of the demolition of the Port Everglades Plant. The net salvage value of the demolition is the net of: the removal and disposal cost and the salvage value of equipment and steel not disposed of. These factors provide a unit cost or value for removal, disposal and salvage of a given unit of measure of the component materials of which a power plant is constructed. The assumption is that the cost or value per unit of a given component can be multiplied by the quantity of that component the plant to calculate a total cost or value for removal, disposal, or salvage of that component.

REMOVAL COST FACTORS

The removal cost factors developed for this study have two elements: a burdened labor rate and productivity factor. The burdened labor rate multiplied by the productivity factor yields the removal cost factor. The labor rates used in this study were developed by FPL's Power Generation Services Department (PGS). The crew rate per man-hour is for a crew consisting of six journeymen laborers, one laborer foreman and one heavy equipment operator - a typical crew for demolition work. The rate includes the cost per man-hour of a Trojan 3500Z front end loader with a four yard bucket, and an American 9310, two hundred twenty-five ton crane with a two hundred foot boom. The productivity factor employed, i.e., the number of man-hours required to remove a given unit of measure of concrete, were developed by an engineering consulting firm. These factors are assumed valid for purposes of this study.

Labor Rate

Labor rates are based on Means Union wages for 1998. Rates are adjusted to reflect non-union crews and factored to the geographical location of the site. Wage rates are based on a 40 hour week.

Labor	\$24.72	X	6	=	\$148.32
Foreman	\$31.76	X	1	=	\$31.76
Heavy Equipment Operator	\$29.61	X	1	=	\$29.61
Total Cost per hour of 8 man crew					<u>\$209.69</u>
Cost per man hour			\$209.69 / 8	=	<u>\$26.21</u>

Equipment Rate

The equipment rate is based on the following equipment:

Excavator					14,925.30
Front End Loader					5,095.73
Cutting Equipment					<u>200.00</u>
Total per month					<u>\$20,221.03</u>
	20,221.03	/	176	hours per month =	114.89
Cost per man hour			\$114.89 / 8	=	\$14.36
Plus: amount for small tools					<u>0.80</u>
Total Cost per man hour					<u>\$15.16</u>

PORT EVERGLADES DISMANTLEMENT STUDY

Equipment & Labor Summary

Labor	\$26.21
Equipment	15.16
Total	<u>\$41.37</u>
 Rounded	 <u>\$41.00</u>
 For Concrete demolition add \$4.00 per hour additional equipment charge.	 <u>\$45.00</u>

The Removal Cost Factor is the product of the productivity factor for removal of a particular component multiplied by the total burdened hourly labor rate. The removal cost factors for all materials to be removed from FPL's sites are as follows:

<u>Components</u>	<u>Hourly Rate</u>	<u>Productivity Factor</u>	<u>Removal Factor</u>
Extra Heavy Steel (1)	\$41.00	2.50 MH / Ton	\$102.50 / Ton
Heavy Steel (2)	\$41.00	3.30 MH / Ton	\$135.30 / Ton
General Steel	\$41.00	4.40 MH / Ton	\$180.40 / Ton
Light Steel	\$41.00	7.10 MH / Ton	\$291.10 / Ton
Concrete	\$45.00	0.48 MH / CY	\$21.60 / CY
Reinforced Concrete	\$45.00	1.20 MH / CY	\$54.00 / CY
Copper-Elect. Cable & Generator Leads & Copper - Generator	\$41.00	12.00 MH / Ton	\$492.00 / Ton
Copper - Transformer			\$400.00 / Ton
			\$300.00 / Ton
General Insulation	\$41.00	1.00 MH / CY	\$41.00 / CY
Inground Pipe-Metal(3)	\$41.00	6.00 MH / Ton	\$246.00 / Ton
Concrete Pipe (collapsed)	\$45.00	4.60 MH / Ton	\$207.00 / Ton
Asbestos Insulation			\$1,250.00 / CY

(1) Includes turbine generator.

(2) Includes parts of the steam generator, pipe larger than 8 inches.

(3) Includes cost to backfill the trenches.

DISPOSAL COST FACTORS

Three cost factors were developed to compute the cost of disposal of non-hazardous wastes at the Central Landfill located at 7101 S.W. 205 Avenue in Ft. Lauderdale, Florida. Concrete and calcium silicated insulation are all non-hazardous wastes. The tipping fees are \$9.65/cy for concrete and \$7.95/cy for cal-sil insulation. The dumpster charges, including driver, are \$275 for the 20 cubic yard dumpster and \$497 for the 40 cubic yard dumpster.

Cost factors were also developed to compute the cost of removal and disposal of oil tanks, including the cost of related soil remediation. Such costs are computed for each tank in FPL's system, and are located appropriately in the detailed spreadsheet.

PORT EVERGLADES DISMANTLEMENT STUDY

Concrete

One cubic yard of concrete in place weighs 3,950 pounds. One cubic yard becomes 1.3 cubic yards after demolition. Each load will contain 15.38 cubic yards (20 cu. yds./1.3) of in place concrete. 15.38 cubic yards weighs 61,000 pounds or 30.50 tons.

Dumpster Charge Including Tipping Fee				\$275.00	
Tipping Fees	\$9.65	/ CY	X	20 CY	193.00
Total Cost per round Trip				<u>\$468.00</u>	

Cost per Cubic Yard	\$468.00	/ 15.38 cubic yards =	\$30.43
Plus 10% contractor profit			3.04
Total Cost per Cubic Yard			<u>\$33.47</u>

Rounded Cost per Cubic Yard			<u>\$33.00</u>
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Insulation - Calcium Silicate (Non-Hazardous)

A trailer with a 40 cubic yard capacity is used for insulation because of its lighter weight. For purposes of this computation the dumpster is assumed to be 90% full (although the tipping fee is based on the assumption of 100% full truck - 40 cubic yards - the full volume of the dumpster).

Dumpster Charge				497.00	
Tipping Fees	\$7.95	/ CY	X	40 CY	318.00
Total Cost per round Trip				<u>815.00</u>	

Cost per Cubic Yard	\$815.00	/ 36 cubic yards =	\$22.64
Plus 10% contractor profit			2.26
Total Cost per Cubic Yard			<u>\$24.90</u>

Rounded Cost per Cubic Yard			<u>\$25.00</u>
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Insulation - Asbestos				<u>\$100.00</u>
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PORT EVERGLADES DISMANTLEMENT STUDY

SALVAGE VALUE FACTORS

The salvage value factors were provided by FPL's Investment Recovery Department. The costs listed below are in \$ per ton.

Iron & Steel	\$50 / ton
Stainless Steel	\$300 / ton
Aluminum (Sheet Metal)	\$540 / ton
Wire & Cable:	
- Insulated Copper	\$760 / ton
- Insulated Aluminum	\$600 / ton
Copper	\$710 / ton
Nickel Alloys	
- 70/30 Cupro-Nickel	\$1,490 / ton
- 80/20 Cupro-Nickel	\$1,250 / ton
- Monel	\$2,340 / ton
Admiralty Brass	\$540 / ton
Aluminum Brass	\$140 / ton
Titanium	\$1,320 / ton

OTHER SITE COSTS

Site Management Expenses

Site management expenses refer to FPL's management costs and contractors' expenses associated with the dismantlement project. The cost factors provided by FPL's Power Generation Services Department (PGS) are: FPL expenses of \$13,901 per month, both office and site, and contractor's expenses of \$17,923 per month. These expenses are assumed to be incurred over the 24 month dismantlement period assumed for the Port Everglades Plant. FPL's management costs include administration, engineering, permit costs and various other costs. Contractors' expenses include field management, security, and other costs.

Site Management Expenses per month	\$31,824
Number of months	24.00
Total Site Management Expenses	<u>\$763,776</u>

Intake & Discharge Backfill

FPL's PGS Department developed this cost factor on the basis of a typical such structure for FPL's production plants. The assumption is that a volume of 1,600 cubic yards for the intake and 1,120 cubic yards for the discharge will need to be filled. For Port Everglades, the costs are as follows:

2	Intake Structures at :	\$28,021	equals	\$56,042
4	Discharge Structures at:	\$22,237	equals	\$88,948
Total Cost to Backfill Intake & Discharge Structures equals				<u>\$144,990</u>

PORT EVERGLADES DISMANTLEMENT STUDY

Grading and Seeding

This cost refers to the restoration of the dismantled area to a green field area. The land is filled with sand, spread with topsoil and then seeded. The cost factor provided by PGS is \$40,229 per acre. The acreage was determined for each site by reviewing engineering drawings to determine the areas requiring this effort. Assumptions underlying this cost factor include 2,000 cubic yards per acre to be backfilled and 968 cubic yards per acre of topsoil to be spread and seeded.

Port Everglades Acreage to be graded and seeded	52.80
Cost Factor	<u>\$40,229</u>
Total Grading and Seeding Expense	<u><u>\$2,124,091</u></u>

PORT EVERGLADES DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Realizable Total Salvage Value
Port Everglades Common										
FERC Account 311										
Improvements to Site										
Roads, Walks	CY	1	3.0	3.00	21.60	65	33.00	99	0.00	0
Yard Lighting	TN	1	9.5	9.50	291.10	2,765	0.00	0	50.00	475
						2,830		99		475
Condensing & Service Water System										
Service Water Tanks	TN	1	3.0	3.00	180.40	541	0.00	0	50.00	150
Intake & Discharge										
Concrete	CY	1	1,344.0	1,344.00	54.00	72,576	33.00	44,352	0.00	0
Concrete Piping - 48"	CY	1	28.0	28.00	207.00	5,796	0.00	0	0.00	0
						78,372		44,352		0
Station Structures										
Substructure Concrete Mats	CY	1	6,524.0	6,524.00	54.00	352,296	33.00	215,292	0.00	0
C.I. Drain Line	TN	1	781.3	781.30	135.30	105,710	0.00	0	50.00	39,065
Structural Steel	TN	1	754.8	754.80	135.30	102,124	0.00	0	50.00	37,740
Roofing & Floor Slabs	CY	1	403.0	403.00	21.60	8,705	33.00	13,299	0.00	0
Cranes, Derricks & Hoists	CY	1	157.5	157.50	180.40	28,413	0.00	0	50.00	7,875
Miscellaneous & Building Iron	TN	1	135.6	135.60	180.40	24,462	0.00	0	50.00	6,780
						621,710		228,591		91,460
Oil Storage Facilities										
Tanks & Accessories	TN	1	8.0	8.00	180.40	1,443	0.00	0	50.00	400
Oil Transfer Pumps & Motors	TN	1	8.7	8.70	180.40	1,569	0.00	0	50.00	435
Piping	TN	1	48.3	48.30	180.40	8,713	0.00	0	50.00	2,415
Reinforced Concrete	CY	1	1,270.0	1,270.00	54.00	68,580	33.00	41,910	0.00	0
						80,306		41,910		3,250
Building Equipment										
Building Elevator	TN	1	11.0	11.00	180.40	1,984	0.00	0	50.00	550
HVAC	TN	1	17.5	17.50	180.40	3,157	0.00	0	50.00	875
Plumbing	TN	1	14.0	14.00	180.40	2,526	0.00	0	50.00	700
Lighting & Building Wiring	TN	1	9.0	9.00	492.00	4,428	0.00	0	50.00	450
Fire Protection Equipment	TN	1	5.0	5.00	291.10	1,456	0.00	0	50.00	250
						13,551		0		2,825
Tank Farm										
#6 Fuel Oil Tanks	TN	N/A	288.0	288.00	0.00	200,000	n/a	0	50.00	14,400
Cleaning of all tanks	BL	N/A	0.0	0.00	n/a	0	n/a	551,149	0.00	0
Soil Remediation	CY	N/A	0.0	0.00	n/a	0	n/a	259,007	0.00	0
Total						200,000		810,156		14,400
Service Building										
Concrete	CY	1	45.0	45.00	21.60	972	33.00	1,485	0.00	0
Structural Steel	TN	1	27.0	27.00	135.30	3,653	0.00	0	50.00	1,350
Roofing	CY	1	20.0	20.00	21.60	432	33.00	660	0.00	0
Plumbing	TN	1	18.0	18.00	180.40	3,247	0.00	0	50.00	900
						8,304		2,145		2,250
Administration Building										

PORT EVERGLADES DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Realizable Total Salvage Value
Concrete	CY	1	480.0	480.00	21.60	10,368	33.00	15,840	0.00	0
Structural Steel	TN	1	300.0	300.00	135.30	40,590	0.00	0	50.00	15,000
Roofing	CY	1	225.0	225.00	21.60	4,860	33.00	7,425	0.00	0
Plumbing	TN	1	210.0	210.00	180.40	37,884	0.00	0	50.00	10,500
						93,702		23,265		25,500
Total FERC Account 311						1,099,317		1,150,518		140,310
FERC Account 312										
Boiler Plant Equipment										
Boiler Room Instruments	TN	1	8.0	8.00	180.40	1,443	0.00	0	50.00	400
Boiler Blow-Off & Outfall Drains	TN	1	10.0	10.00	180.40	1,804	0.00	0	50.00	500
Total FERC Account 312						3,247		0		900
FERC Account 314										
Turbogenerator Unit										
Condenser Auxiliary Equipment - Condensate Pumps	TN	3	18.0	54.00	180.40	9,742	0.00	0	50.00	2,700
Motors - 900 hp, 4,000V	TN	3	16.0	48.00	180.40	8,659	0.00	0	50.00	2,400
Concrete	CY	1	174.0	174.00	54.00	9,396	33.00	5,742	0.00	0
Turbine Room Instruments	TN	1	12.0	12.00	180.40	2,165	0.00	0	50.00	600
Total FERC Account 314						29,962		5,742		5,700
FERC Account 315										
Accessory Electrical Equipment										
Auxiliary Power Transformer	TN	2	59.4	118.80	291.10	34,583	0.00	0	50.00	5,940
Transformer Copper	TN	1	54.0	53.96	300.00	16,188	0.00	0	710.00	38,312
Transformers - Foundation	CY	1	270.0	270.00	54.00	14,580	33.00	8,910	0.00	0
Start-Up Transformer	TN	1	75.5	75.50	291.10	21,978	0.00	0	50.00	3,775
Control Cable Supporting Cable Trays	TN	1	31.0	31.00	492.00	15,252	0.00	0	50.00	1,550
Control Boards & Load Centers	TN	1	25.0	25.00	291.10	7,278	0.00	0	50.00	1,250
Total FERC Account 315						109,858		8,910		50,827
FERC Account 316										
Miscellaneous Power Plant Equipment										
Compressed Air System	TN	1	18.0	18.00	180.40	3,247	0.00	0	50.00	900
Intrasite Communications & Signal Equipment	TN	1	3.5	3.50	291.10	1,019	0.00	0	50.00	175
Service Air Piping	TN	1	12.0	12.00	291.10	3,493	0.00	0	50.00	600
Total FERC Account 316						7,759		0		1,675
Total Port Everglades Common						1,250,143		1,165,170		199,412
Port Everglades Units 1 & 2										
FERC Account 311										
Improvements to Site										

PORT EVERGLADES DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Realizable Total Salvage Value
Circ. & Serv. Water Sys. - Piping	TN	1	6.0	11.99	180.40	2,162	0.00	0	50.00	599
Pumping Equipment 3000 gpm	TN	3	1.8	10.80	180.40	1,948	0.00	0	50.00	540
Service Water Tanks	TN	2	2.5	10.00	180.40	1,804	0.00	0	50.00	500
Elevated Water Tank - 100,000 gal	TN	1	8.0	16.00	180.40	2,886	0.00	0	50.00	800
Reinforced Concrete	CY	1	1224.0	2,448.00	54.00	132,192	33.00	80,784	0.00	0
Traveling and Coarse Steel Screens	TN	2	21.0	83.80	180.40	15,118	0.00	0	50.00	4,190
Intake Gantry Crane - 20 Ton	TN	1	56.5	56.50	135.30	7,644	0.00	0	50.00	2,825
Screen Wash Pumps	TN	2	2.0	8.00	180.40	1,443	0.00	0	50.00	400
Chlorinator & Expansion Tank	TN	1	1.0	2.00	180.40	361	0.00	0	50.00	100
Reinforced Concrete Transition Blocks	TN	1	1388.0	2,776.00	54.00	149,904	33.00	91,608	0.00	0
Concrete Pipe	TN	1	430.0	860.00	207.00	178,020	0.00	0	0.00	0
Cast Iron Pipe	TN	1	2.4	4.75	246.00	1,169	0.00	0	50.00	238
Corrugated Metal Pipe	TN	1	3.8	7.60	246.00	1,870	0.00	0	50.00	380
Reinforced Concrete	CY	1	86.0	172.00	54.00	9,288	33.00	5,676	0.00	0
Concrete Culvert Pipe - 12" I.D.	TN	1	1344.0	2,688.00	207.00	556,416	0.00	0	0.00	0
Total Account 311						1,062,225		178,068		10,572
FERC Account 312										
Boiler Plant Equipment										
Fuel Oil Day Tanks- 12,000 bbl	TN	1	50.60	101.20	0.00	25,000	n/a	0	50.00	5,060
Fuel Oil Day Tanks- Cleaning	EA	2	n/a	n/a	n/a	n/a	n/a	26,000	0.00	0
Fuel Oil Day Tanks- Soil Remediation	EA	2	n/a	n/a	n/a	n/a	n/a	21,238	0.00	0
Fuel Oil Day Tanks - Reinforced Concrete	EA	2	n/a	n/a	n/a	n/a	n/a	51,766	0.00	0
Fuel Tank - 238,000 bbl	TN	1	793.33	793.33	n/a	37,500	n/a	0	50.00	39,667
Fuel Tank - Cleaning	EA	1	n/a	n/a	n/a	0	0.00	169,963	0.00	0
Fuel Tank - Soil Remediation	EA	1	n/a	n/a	n/a	0	0.00	84,742	0.00	0
Surge & Calibration Tanks - 3,000 bbl	TN	2	5.00	20.00	135.30	2,706	0.00	0	50.00	1,000
Light-Up Oil Tank - 600 bbl	TN	1	1.00	2.00	135.30	271	0.00	0	50.00	100
Fuel Oil Heaters	TN	3	10.08	60.48	180.40	10,911	0.00	0	50.00	3,024
Fuel Oil Burner Pumps (including motor)	TN	3	1.70	10.17	180.40	1,835	0.00	0	50.00	509
Burner Booster Fuel Oil Burner Pump	TN	1	2.90	5.79	180.40	1,045	0.00	0	50.00	290
Burner Windbox	TN	1	60.00	120.00	180.40	21,648	0.00	0	50.00	6,000
Subtotal						100,914		353,709		55,649
Boiler Equipment										
Boiler Frame & Platforms	TN	1	1,316.00	2,632.00	135.30	356,110	0.00	0	50.00	131,600
Walkways & Platforms	TN	1	170.00	340.00	291.10	98,974	0.00	0	50.00	17,000
Steel Decking, Grating & Handrail	TN	1	155.00	310.00	291.10	90,241	0.00	0	50.00	15,500
Boiler - including:	TN	1	1,736.00	3,472.00	135.30	469,762	0.00	0	50.00	173,600
Furnace Tubing										
Superheater Tubing										
Reheater Tubing										
Economizer Tubing										
Desuperheaters										
Brickwork & Refractories										
Forced Draft Fans										
Soot Blowers										
Buckstays										
Insulation	CY	1	165	330.00	1,250.00	412,500	100.00	33,000	0.00	0

PORT EVERGLADES DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Realizable Total Salvage Value
Circulating Water Pumps	TN	2	35.70	142.80	180.40	25,761	0.00	0	50.00	7,140
Circulating Water Pump Motors	TN	2	12.40	49.60	180.40	8,948	0.00	0	50.00	2,480
Instrument Air Compressors	TN	2	2.00	8.00	180.40	1,443	0.00	0	50.00	400
Air Piping	TN	1	4.43	8.86	180.40	1,598	0.00	0	50.00	443
Extraction Feedwater Heater #1	TN	1	14.45	28.90	135.30	3,910	0.00	0	50.00	1,445
Extraction Feedwater Heater #2	TN	1	10.05	20.10	135.30	2,720	0.00	0	50.00	1,005
Extraction Feedwater Heater #3	TN	1	9.75	19.50	180.40	3,518	0.00	0	50.00	975
Extraction Feedwater Heater #4	TN	1	8.30	16.60	180.40	2,995	0.00	0	50.00	830
Extraction Feedwater Heater #5	TN	1	51.00	102.00	180.40	18,401	0.00	0	50.00	5,100
Extraction Feedwater Heater #6	TN	1	24.05	48.10	180.40	8,677	0.00	0	50.00	2,405
Extraction Feedwater Heater #7	TN	1	28.95	57.90	180.40	10,445	0.00	0	50.00	2,895
Deaerator	TN	1	20.00	40.00	135.30	5,412	0.00	0	50.00	2,000
Boiler Feed Pumps	TN	3	10.00	60.00	135.30	8,118	0.00	0	50.00	3,000
Boiler Feed Pump Motors	TN	6	15.00	180.00	180.40	32,472	0.00	0	50.00	9,000
Pedestal - Reinforced Concrete	CY	1	93.50	187.00	54.00	10,098	33.00	6,171	0.00	0
Condensate Storage Tank	TN	1	30.00	60.00	180.40	10,824	0.00	0	50.00	3,000
Condensate Storage Tank - Foundation	CY	1	32.00	64.00	54.00	3,456	33.00	2,112	0.00	0
Boiler Blowoff Tank	TN	1	1.08	2.16	135.30	292	0.00	0	50.00	108
Miscellaneous Tanks	TN	1	4.00	8.00	180.40	1,443	0.00	0	50.00	400
FW Sys - Steel Pressure Filters	TN	2	14.15	28.30	180.40	5,105	0.00	0	50.00	1,415
FW Sys - Cation Exchangers	TN	2	7.50	15.00	180.40	2,706	0.00	0	50.00	750
FW Sys - Steel Acid Tank	TN	1	7.25	7.25	180.40	1,308	0.00	0	50.00	363
Condensate Recovery Collection Tank	TN	1	2.59	5.18	180.40	934	0.00	0	50.00	259
Subtotal						1,598,170		41,283		383,112
Closed System Cooling Water Equipment										
Cooling Water Pumps	TN	2	2.13	8.50	180.40	1,533	0.00	0	50.00	425
Cooling Water Heat Exchangers	TN	3	11.00	66.00	180.40	11,906	0.00	0	50.00	3,300
C W Ht Exch - Foundation	CY	1	22.00	44.00	54.00	2,376	33.00	1,452	0.00	0
Cooling Water Surge Tank	TN	1	1.43	2.85	180.40	514	0.00	0	50.00	143
Subtotal						16,330		1,452		3,868
Boiler Plant Piping										
Main Steam Piping - 18"	TN	1	81.37	162.73	135.30	22,018	0.00	0	50.00	8,137
Hot Reheat Piping - 26"	TN	1	87.83	175.65	135.30	23,766	0.00	0	50.00	8,783
Cold Reheat Piping - 20"	TN	1	45.95	91.90	135.30	12,434	0.00	0	50.00	4,595
Extraction Steam Piping	TN	1	93.31	186.63	135.30	25,251	0.00	0	50.00	9,331
Auxiliary Steam Piping	TN	1	5.32	10.63	135.30	1,439	0.00	0	50.00	532
Condensate Piping	TN	1	22.47	44.94	135.30	6,080	0.00	0	50.00	2,247
Boiler Feed Piping	TN	1	11.01	22.01	135.30	2,978	0.00	0	50.00	1,101
Subtotal						93,966		0		34,725
Water Piping										
Demineralized Water Piping	TN	1	3.34	6.69	180.40	1,207	0.00	0	50.00	334
Other Water Piping	TN	1	46.06	92.11	180.40	16,617	0.00	0	50.00	4,606
Miscellaneous Piping	TN	1	80.15	160.30	180.40	28,917	0.00	0	50.00	8,015
Subtotal						46,742		0		12,955
Instrument Piping & Tubing										
Instrument Piping	TN	1	6.71	13.42	180.40	2,421	0.00	0	50.00	671

PORT EVERGLADES DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Realizable Total Salvage Value
Instrument Tubing	TN	1	34.49	68.98	180.40	12,443	0.00	0	50.00	3,449
Instrument Multitube	TN	1	3.74	7.48	180.40	1,350	0.00	0	50.00	374
Piping Insulation	CY	1	71.90	143.80	1,250.00	179,753	100.00	14,380	0.00	0
Subtotal						195,966		14,380		4,494
Induced Draft Equipment										
Gas Ducts	TN	1	600.00	1,200.00	135.30	162,360	0.00	0	50.00	60,000
Stack Breaching	TN	1	37.18	74.36	54.00	4,015	33.00	2,454	0.00	0
Foundations- Reinforced Concrete	CY	1	74.75	149.50	54.00	8,073	33.00	4,934	0.00	0
Insulation - Ducts	CY	1	900.00	1,800.00	54.00	97,200	25.00	45,000	0.00	0
Induced Draft Fans - Foundations	CY	1	178.50	357.00	54.00	19,278	33.00	11,781	0.00	0
Induced Draft Fans	TN	2	37.50	150.00	135.30	20,295	0.00	0	50.00	7,500
Induced Draft Fan - Motors	TN	2	17.85	71.40	180.40	12,881	0.00	0	50.00	3,570
Concrete Stack	CY	1	1,946.00	3,892.00	54.00	210,168	33.00	128,436	0.00	0
Stack - Reinforced Concr. Foundation	CY	1	775.00	1,550.00	54.00	83,700	33.00	51,150	0.00	0
Dust Collectors	TN	2	75.58	302.30	135.30	40,901	0.00	0	50.00	15,115
Dust Collectors - Foundation	CY	1	136.50	273.00	54.00	14,742	33.00	9,009	0.00	0
Subtotal						673,613		252,763		86,185
Miscellaneous Steel & Equipment	TN	1	433.00	433.00	291.10	126,046	0.00	0	50.00	21,650
Total Account 312						2,851,748		663,588		602,637
FERC Account 314										
Turbogenerator Unit										
Pedestal - Reinforced Concrete	CY	1	1,042.00	2,084.00	54.00	112,536	33.00	68,772	0.00	0
Turbogenerator - Unit	TN	1	370.00	740.00	102.50	75,850	0.00	0	50.00	37,000
Turbine Copper	TN	1	33.00	66.00	400.00	26,400	0.00	0	710.00	46,860
Turbine Plant Piping	TN	1	161.00	322.00	180.40	58,089	0.00	0	50.00	16,100
Turbine Plant Piping - Insulation	CY	1	1,100.00	2,200.00	1,250.00	2,750,000	100.00	220,000	0.00	0
Subtotal						3,022,875		288,772		99,960
Condenser & Auxiliaries										
Condenser	TN	1	337.50	675.00	135.30	91,328	0.00	0	50.00	33,750
Condenser Tubes	TN	1	117.50	235.00	291.10	68,409	0.00	0	140.00	32,900
Circulating Water Pumps	TN	2	9.75	39.00	180.40	7,036	0.00	0	50.00	1,950
Butterfly Valves	TN	2	4.30	17.19	180.40	3,101	0.00	0	50.00	860
Condensate Pumps	TN	2	6.50	26.00	180.40	4,690	0.00	0	50.00	1,300
Condensate Pump Motors	TN	2	4.60	18.40	180.40	3,319	0.00	0	50.00	920
Vent Condenser	TN	1	1.20	2.40	180.40	433	0.00	0	50.00	120
Main Vacuum Pump	TN	1	9.50	19.00	180.40	3,428	0.00	0	50.00	950
Main Vacuum Pump - Motor	TN	1	1.20	2.40	180.40	433	0.00	0	50.00	120
Auxiliary Vacuum Pump	TN	1	5.75	11.50	180.40	2,075	0.00	0	50.00	575
Auxiliary Vacuum Pump - Motor	TN	1	1.00	2.00	180.40	361	0.00	0	50.00	100
Subtotal						184,612		0		73,545
Turbine Room Auxiliaries										
Turbine Lube Oil Dump Tank	TN	1	1.78	3.55	180.40	640	0.00	0	50.00	178
Turbine Lube Cooler	TN	1	8.80	17.60	180.40	3,175	0.00	0	50.00	880
Hydrogen Cooler	TN	1	2.45	4.90	180.40	884	0.00	0	50.00	245

PORT EVERGLADES DISMANTLEMENT STUDY

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Generator Exciter Air Cooler	TN	1	2.20	4.40	180.40	794	0.00	0	50.00	220
Subtotal						5,493		0		1,523
Miscellaneous Steel & Equipment	TN	1	57.50	57.50	180.40	10,373	0.00	0	50.00	2,875
Total Account 314						3,223,353		288,772		177,902
FERC Account 315										
Accessory Electrical Equipment										
Generator Leads and Enclosures	TN	1	9.00	18.00	180.40	3,247	0.00	0	50.00	900
Reinforced Concrete	CY	1	109.00	109.00	54.00	5,886	33.00	3,597	0.00	0
Foundations - Reinforced Concrete	CY	1	18.00	18.00	54.00	972	33.00	594	0.00	0
Auxiliary Power Transformer	TN	1	28.98	57.95	291.10	16,869	0.00	0	50.00	2,898
Circ. Pump Power Supply Transformers	TN	4	1.55	12.40	291.10	3,610	0.00	0	50.00	620
Start-Up Transformer	TN	1	36.75	36.75	291.10	10,698	0.00	0	50.00	1,838
Transformer Copper	TN	1	26.29	26.29	300.00	7,887	0.00	0	710.00	18,666
One-Section ITE Circuit Breaker	TN	1	5.00	10.00	291.10	2,911	0.00	0	50.00	500
Metal Clad Switchgear - 4160 v	TN	1	32.00	64.00	291.10	18,630	0.00	0	50.00	3,200
Metal Clad Switchgear - 480 v	TN	1	17.00	17.00	180.40	3,067	0.00	0	50.00	850
Concrete	CY	1	580.00	580.00	54.00	30,240	33.00	18,480	0.00	0
Conduit	TN	1	97.14	194.27	180.40	35,047	0.00	0	50.00	9,714
Exposed Conduit & Trays	TN	1	19.68	39.35	180.40	7,099	0.00	0	50.00	1,968
Cable Trays	TN	1	16.90	33.80	180.40	6,098	0.00	0	50.00	1,690
Subtotal						152,261		22,671		42,842
Power & Control Wiring										
No. 1 and Smaller	TN	1	12.47	24.93	492.00	12,268	0.00	0	760.00	18,950
1/0 to 4/0	TN	1	8.62	17.23	492.00	8,478	0.00	0	760.00	13,096
Multiconductor - Various Sizes	TN	1	185.24	370.48	492.00	182,275	0.00	0	760.00	281,563
5kv, 4/0 & Smaller	TN	1	5.49	10.98	492.00	5,404	0.00	0	760.00	8,348
5kv, 200 MCM to 500 MCM	TN	1	11.01	22.03	492.00	10,838	0.00	0	760.00	16,742
5kv, 1500 MCM	TN	1	25.20	50.40	492.00	24,797	0.00	0	760.00	38,304
Thermocouple Wire	TN	1	5.59	11.18	492.00	5,498	0.00	0	760.00	8,493
W & C Connections - 600v, #8 & Smaller	TN	1	1.79	3.59	492.00	1,764	0.00	0	760.00	2,725
Subtotal						251,323		0		388,222
Total Account 315						403,583		22,671		431,064
FERC Account 353										
Substation Equipment										
Reinforced Concrete	CY	1	306.00	612.00	54.00	33,048	33.00	20,196	0.00	0
Structural Steel	TN	1	49.50	99.00	135.30	13,395	0.00	0	50.00	4,950
Main Power Transformer Foundation - Reinf Concr	CY	1	53.00	106.00	54.00	5,724	33.00	3,498	0.00	0
Oil Circuit Breaker Foundation - Reinf	CY	1	86.00	172.00	54.00	9,288	33.00	5,676	0.00	0
Main Power Transformer - 9850 nmpft gals.	TN	1	186.95	373.90	291.10	108,842	0.00	0	50.00	18,695
Transformer Copper	TN	1	74.78	74.78	300.00	22,434	0.00	0	710.00	53,094
Oil Circuit Breakers	TN	3	8.00	48.00	291.10	13,973	0.00	0	50.00	2,400
Total Account 353						206,704		29,370		79,139

PORT EVERGLADES DISMANTLEMENT STUDY

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TOTAL PORT EVERGLADES UNIT 1 & 2						7,747,613		1,182,469		1,301,314
PORT EVERGLADES UNITS 3 & 4										
FERC Account 311										
<u>Improvements to Site</u>										
Concrete Pavement	CY	1	79	158.00	21.60	3,413	33.00	5,214	0.00	0
<u>Sewer System:</u>										
48" Concrete Pipe - 6"	TN	1	1.61	1.61	21.60	35	33.00	53	0.00	0
48" Concrete Pipe - 8"	TN	1	3.20	3.20	21.60	69	33.00	106	0.00	0
48" Concrete Pipe - 10"	TN	1	7.20	7.20	21.60	156	33.00	238	0.00	0
48" Concrete Pipe - 12"	TN	1	7.40	7.40	21.60	160	33.00	244	0.00	0
48" Concrete Pipe - 15"	TN	1	6.80	6.80	21.60	147	33.00	224	0.00	0
48" Concrete Pipe - 18"	TN	1	5.80	5.80	21.60	125	33.00	191	0.00	0
Subtotal						4,104		6,270		0
<u>Condensing and Service Water System</u>										
Water Treatment Area Slab	CY	1	261.00	522.00	54.00	28,188	33.00	17,226	0.00	0
Piping - Cast Iron - 18"	TN	1	26.98	53.96	246.00	13,273	0.00	0	50.00	2,698
Intake Cooling Water Pumps	TN	2	2.00	8.00	180.40	1,443	0.00	0	50.00	400
Intake Structure - Concrete	CY	1	849.00	1,698.00	54.00	91,692	33.00	56,034	0.00	0
Wingwall Cap & Crane Rail Pads	CY	1	106.00	212.00	54.00	11,448	33.00	6,996	0.00	0
Traveling Water Screens	TN	2	14.11	56.43	180.40	10,180	0.00	0	50.00	2,821
1 1/2 Ton Electric Hoist	TN	1	3.50	7.00	180.40	1,263	0.00	0	50.00	350
Screen Refuse Line - Concrete Pipe	TN	1	506.67	1,013.33	21.60	21,888	33.00	33,440	0.00	0
Intake Culvert - 144" concrete pipe	TN	1	322.67	645.33	21.60	13,939	33.00	21,296	0.00	0
Inlet & Outlet Concrete Structures	CY	1	404.00	808.00	54.00	43,632	33.00	26,664	0.00	0
Intake Conduit - 76" Rein Conc Pipe	TN	1	547.33	1,094.67	54.00	59,112	33.00	36,124	0.00	0
Concrete	CY	1	692.00	1,384.00	54.00	74,736	33.00	45,672	0.00	0
Discharge Conduit - 60" Concr Pipe	TN	1	249.58	499.17	54.00	26,955	33.00	16,473	0.00	0
Concrete	CY	1	360.00	720.00	54.00	38,880	33.00	23,760	0.00	0
Seal Well Concrete Structure	CY	1	390.00	780.00	54.00	42,120	33.00	25,740	0.00	0
Concrete Pedestal Mat	CY	1	3,712.00	7,424.00	54.00	400,896	33.00	244,992	0.00	0
Structural Steel	TN	1	305.00	610.00	135.30	82,533	0.00	0	50.00	30,500
Miscellaneous Steel	TN	1	23.00	46.00	180.40	8,298	0.00	0	50.00	2,300
Floors - Concrete	CY	1	167.00	334.00	54.00	18,036	33.00	11,022	0.00	0
Galvanized Steel Floor	TN	1	52.20	104.40	180.40	18,834	0.00	0	50.00	5,220
Forced Draft Fan Enclosure - Concr	CY	1	147.00	294.00	54.00	15,876	33.00	9,702	0.00	0
Elevator	TN	1	37.60	75.20	180.40	13,566	0.00	0	50.00	3,760
Subtotal						1,036,788		575,141		48,049
<u>Fuel & Ash Structures</u>										
Concrete	CY	1	29.00	58.00	54.00	3,132	33.00	1,914	0.00	0
Ash Pit Sumps - Concrete	CY	1	18.00	36.00	54.00	1,944	33.00	1,188	0.00	0
Ash Disposal Lines - 10"	CY	1	113.33	226.67	21.60	4,896	33.00	7,480	0.00	0
Concrete	CY	1	152.00	304.00	54.00	16,416	33.00	10,032	0.00	0

PORT EVERGLADES DISMANTLEMENT STUDY

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Fuel Oil Transfer Pumps	TN	2	1.23	4.90	180.40	884	0.00	0	50.00	245
Fuel Oil Tmsfr Hse Extn - Concrete	CY	1	80.00	80.00	54.00	4,320	33.00	2,640	0.00	0
Subtotal						31,592		23,254		245
Total Account 311						1,072,484		604,665		48,294
FERC Account 312										
Boiler Plant Equipment										
Fuel Oil & Gas Equipment										
Metering Tank - Fdn & Conc Firewalls	CY	1	302.00	604.00	0.00	51,766	n/a	0	0.00	0
Fuel Oil Metering Tank - 12000 bbl	TN	1	50.60	101.20	0.00	25,000	n/a	0	50.00	5,060
Fuel Oil Metering Tank - Cleaning	EA	1	n/a	n/a	n/a	0	n/a	26,000	0.00	0
Fuel Oil Metering Tank - Soil Remediation	EA	1	n/a	n/a	n/a	0	n/a	21,238	0.00	0
Fuel Oil Metering Tank - Foundation	EA	1	n/a	n/a	n/a	0	n/a	51,766	0.00	0
Fuel Tank - Reinforced Concrete	EA	1	87.00	87.00	54.00	4,698	33.00	2,871	0.00	0
Fuel Tank - 238,000 bbl	TN	1	793.33	793.33	n/a	37,500	n/a	0	50.00	39,667
Fuel Tank - Cleaning	EA	1	n/a	n/a	n/a	0	n/a	169,963	0.00	0
Fuel Tank - Soil Remediation	EA	1	n/a	n/a	n/a	0	n/a	84,742	0.00	0
Burner Pumps	TN	3	1.50	9.00	180.40	1,624	0.00	0	50.00	450
Concrete	CY	1	77.00	154.00	54.00	8,316	33.00	5,082	0.00	0
Forced Draft Foundation	CY	1	193.00	386.00	54.00	20,844	33.00	12,738	0.00	0
Forced Draft Fans - 384,000 cfm	TN	2	30.50	122.00	135.30	16,507	0.00	0	50.00	6,100
3,500 HP Motors - 4000v, 1200 rpm	TN	2	8.00	32.00	135.30	4,330	0.00	0	50.00	1,600
Forced Draft Fan Air Ducts	TN	2	307.20	1,228.80	180.40	221,676	0.00	0	50.00	61,440
Insulation	CY	1	480.00	960.00	41.00	39,360	25.00	24,000	0.00	0
Insulation	CY	1	350.00	700.00	1,250.00	875,000	100.00	70,000	0.00	0
Subtotal						1,306,619		468,400		114,317
Boiler Equipment										
Boiler Frame	TN	1	1,232.00	2,464.00	135.30	333,379	0.00	0	50.00	123,200
Platforms, Grating & Handrails	TN	1	237.00	474.00	291.10	137,981	0.00	0	50.00	23,700
Boiler - including:	TN	1	3,042.00	6,084.00	135.30	823,165	0.00	0	50.00	304,200
Drum										
Waterwall, Cowncomers & Tubes										
Piping, Valves & Silencers										
Radiant Superheater										
Convection Superheater										
Reheater										
Economizer										
Sootblowers										
Insulation	CY	1	340.00	680.00	41.00	27,880	25.00	17,000	0.00	0
Insulation	CY	1	240.00	480.00	1,250.00	600,000	100.00	48,000	0.00	0
Air Preheater	TN	2	250.00	1,000.00	135.30	135,300	0.00	0	50.00	50,000
Subtotal						2,057,706		65,000		501,100
Boiler Plant Auxiliaries										
H.P. Feedwater Heater #1	TN	1	67.45	134.90	135.30	18,252	0.00	0	50.00	6,745
H.P. Feedwater Heater #2	TN	1	50.95	101.90	135.30	13,787	0.00	0	50.00	5,095
L.P. Feedwater Heater #3	TN	1	17.85	35.70	180.40	6,440	0.00	0	50.00	1,785
L.P. Feedwater Heater #4	TN	1	15.10	30.20	180.40	5,448	0.00	0	50.00	1,510

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L.P. Feedwater Heater #5	TN	1	11.85	23.70	180.40	4,275	0.00	0	50.00	1,185
L.P. Feedwater Heater #6	TN	1	15.85	31.70	180.40	5,719	0.00	0	50.00	1,585
L.P. Feedwater Heater #7	TN	1	21.85	43.70	180.40	7,883	0.00	0	50.00	2,185
Boiler Feed Pumps (including motors)	TN	2	27.00	108.00	135.30	14,612	0.00	0	50.00	5,400
Concrete	CY	1	119.00	238.00	54.00	12,852	33.00	7,854	0.00	0
Condensate Storage Tank - 150,000 gl	TN	1	41.25	82.50	180.40	14,883	0.00	0	50.00	4,125
Condensate Storage Tank Foundation	CY	1	105.00	210.00	54.00	11,340	33.00	6,930	0.00	0
Subtotal						115,492		14,784		29,615
Boiler Plant Piping										
Main Steam Piping - 20.5 inch OD	TN	1	75.50	151.01	135.30	20,431	0.00	0	50.00	7,550
Main Steam Piping - 16 inch OD	TN	1	6.71	13.41	135.30	1,815	0.00	0	50.00	671
Hot Reheat Piping - 30 inch OD	TN	1	44.17	88.34	135.30	11,953	0.00	0	50.00	4,417
Hot Reheat Piping - 22 inch OD	TN	1	13.14	26.29	135.30	3,557	0.00	0	50.00	1,314
Cold Reheat Piping - 32 inch OD	TN	1	20.31	40.62	135.30	5,496	0.00	0	50.00	2,031
Cold Reheat Piping - 24 inch OD	TN	1	7.71	15.42	135.30	2,087	0.00	0	50.00	771
Boiler Plant Piping Insulation	CY	1	400.00	800.00	41.00	32,800	25.00	20,000	0.00	0
Boiler Plant Piping Insulation	CY	1	325.00	650.00	1,250.00	812,500	100.00	65,000	0.00	0
Extraction Steam Piping	TN	1	32.00	64.00	135.30	8,659	0.00	0	50.00	3,200
Boiler Feed Piping	TN	1	46.00	92.00	135.30	12,448	0.00	0	50.00	4,600
Boiler Feed Piping Insulation	CY	1	320.00	640.00	41.00	26,240	25.00	16,000	0.00	0
Silencers	TN	3	4.10	24.60	180.40	4,438	0.00	0	50.00	1,230
Saturated Auxiliary Steam - Piping	TN	1	21.72	43.43	180.40	7,835	0.00	0	50.00	2,172
Service & Cooling Water Piping	TN	1	94.85	189.70	180.40	34,222	0.00	0	50.00	9,485
Instrument, Sampling & Control Piping	TN	1	33.20	66.40	180.40	11,978	0.00	0	50.00	3,320
Pipe Insulation	CY	1	395.00	790.00	41.00	32,390	25.00	19,750	0.00	0
Pipe Insulation	CY	1	265.00	530.00	1,250.00	662,500	100.00	53,000	0.00	0
Subtotal						1,691,347		173,750		40,761
Induced Draft Equipment										
Insulation	CY	1	240.00	480.00	1,250.00	600,000	100.00	48,000	0.00	0
Insulation	CY	1	340.00	680.00	41.00	27,880	25.00	17,000	0.00	0
Stacks	CY	1	1,970.00	3,940.00	54.00	212,760	33.00	130,020	0.00	0
Dust Collectors 4,700 cu. ft.	TN	2	35.00	140.00	135.30	18,942	0.00	0	50.00	7,000
Concrete Stack Foundation	CY	1	826.00	1,652.00	54.00	89,208	33.00	54,516	0.00	0
Subtotal						948,790		249,536		7,000
Miscellaneous Steel & Equipment	TN	1	525.23	525.23	291.10	152,894	0.00	0	50.00	26,262
Total Account 312						6,272,849		971,470		719,054
FERC Account 314										
Turbo-Generator Units										
Conditioner	TN	1	1.83	3.65	180.40	659	0.00	0	50.00	183
Pedestal Concrete	CY	1	1,586.00	3,172.00	54.00	171,288	33.00	104,676	0.00	0
Inserts & Anchor Bolts	TN	1	1.73	3.47	180.40	625	0.00	0	50.00	173
Turbo-Generator Unit	TN	1	648.00	1,296.00	102.50	132,840	0.00	0	50.00	64,800
Turbine Piping	TN	1	260.00	520.00	492.00	255,840	0.00	0	50.00	26,000
Turbine Copper	TN	1	58.00	116.00	400.00	46,400	0.00	0	710.00	82,360
Turbine Insulation	CY	1	700.00	1,400.00	1,250.00	1,750,000	100.00	140,000	0.00	0

PORT EVERGLADES DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Realizable Total Salvage Value
Subtotal						2,357,652		244,676		173,516
Condensers and Auxiliaries										
Condenser Shell	TN	1	867.50	1,735.00	135.30	234,746	0.00	0	50.00	86,750
Condenser Tubes - Titanium	TN	1	214.50	429.00	291.10	124,882	0.00	0	1,320.00	566,280
Circulating Water Pumps - 137,500 gpm	TN	2	52.50	210.00	180.40	37,884	0.00	0	50.00	10,500
Motors 1,250 HP, 4000v, 257 rpm	TN	2	18.04	72.14	180.40	13,014	0.00	0	50.00	3,607
Butterfly Valves	TN	2	8.00	32.00	180.40	5,773	0.00	0	50.00	1,600
Cond Pumps - 24" suction, 12" dischrg	TN	3	9.23	55.35	180.40	9,985	0.00	0	50.00	2,768
Motors - 900 HP, 4,000 v, 1,200 rpm	TN	3	5.85	35.10	180.40	6,332	0.00	0	50.00	1,755
Concrete	CY	1	87.00	174.00	54.00	9,396	33.00	5,742	0.00	0
Tank - 6,500 gallon	TN	1	27.18	54.36	180.40	9,807	0.00	0	50.00	2,718
Subtotal						451,818		5,742		675,978
Miscellaneous Steel & Equipment	TN	1	490.51	490.51	291.10	142,787	0.00	0	50.00	24,526
Total Account 314						2,952,258		250,418		874,019
FERC Account 315										
Accessory Electrical Equipment										
Foundations & Structures										
Concrete	CY	1	8.00	16.00	54.00	864	33.00	528	0.00	0
Steel Structures & Supports	TN	1	3.40	6.80	135.30	920	0.00	0	50.00	340
Equipment Foundations - Concrete	CY	1	29.00	58.00	54.00	3,132	33.00	1,914	0.00	0
Switchgear Foundations - Concrete	TN	1	77.00	154.00	54.00	8,316	33.00	5,082	0.00	0
Aux Power Transformer - 24,000 kva 4080gl	TN	1	59.40	118.80	291.10	34,583	0.00	0	50.00	5,940
Transformer Copper	TN	1	53.96	53.96	300.00	16,188	0.00	0	710.00	38,312
Concrete	CY	1	269.00	538.00	54.00	29,052	33.00	17,754	0.00	0
Conduit	TN	1	40.00	80.00	291.10	23,288	0.00	0	50.00	4,000
Conductors - Generator Leads	TN	1	20.00	40.00	492.00	19,680	0.00	0	710.00	28,400
Power Wiring - 5,000 v & 600 v	TN	1	35.00	70.00	492.00	34,440	0.00	0	760.00	53,200
Switchgear - 4,160v Metalclad	TN	1	40.00	80.00	291.10	23,288	0.00	0	50.00	4,000
Switchgear - 480v Metalclad	TN	1	18.00	36.00	291.10	10,480	0.00	0	50.00	1,800
Startup Transformer	TN	1	75.50	75.50	291.10	21,978	0.00	0	50.00	3,775
Total Account 315						226,208		25,278		139,767
FERC Account 353										
Substation Equipment										
Autotransformer	TN	1	270.00	540.00	291.10	157,194	0.00	0	50.00	27,000
Main Power Transformers	TN	1	351.23	702.45	291.10	204,483	0.00	0	50.00	35,123
Transformer Copper	TN	1	140.49	140.49	300.00	42,147	0.00	0	710.00	99,748
Oil Circuit Breaker -3 pole, 600v	TN	1	12.09	24.17	291.10	7,036	0.00	0	50.00	1,209
Control Wiring	TN	1	30.00	60.00	492.00	29,520	0.00	0	760.00	45,600
Main Power Transformers - Foundation	CY	1	87.00	174.00	54.00	9,396	33.00	5,742	0.00	0
Oil Circuit Breakers - Foundation	CY	1	50.00	100.00	54.00	5,400	33.00	3,300	0.00	0
Total Account 353						455,176		9,042		208,679
TOTAL PORT EVERGLADES UNITS 3 & 4						10,978,975		1,660,873		1,989,813
GAS TURBINES										

PORT EVERGLADES DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Realizable Total Salvage Value
FERC Account 341										
Structures & Improvements										
Concrete and Foundations	CY	1	100.00	100.00	54.00	5,400	33.00	3,300	0.00	0
Total Account 341						5,400		3,300		0
FERC Account 342										
Fuel Holders										
Fuel Oil Storage Tanks PPE 903 & PPE 904	TN	2	170.00	340.00	0.00	50,000	0.00	0	50.00	17,000
Cleaning of Fuel Oil Storage Tank	BL	n/a	n/a	n/a	0.00	70,000	n/a	70,000	0.00	0
Sand Base Beneath Fuel Oil Storage Tank	CY	n/a	n/a	n/a	0.00	0	n/a	19,390	0.00	0
Total Account 342						120,000		89,390		17,000
FERC Account 343										
Prime Movers										
Gas Expander With Sole Plates	TN	1	37.20	446.40	135.30	60,398	0.00	0	50.00	22,320
Gas Generator Engines With Bases	TN	1	6.00	72.00	135.30	9,742	0.00	0	50.00	3,600
Turning Gear & Outer Exhaust Case	TN	1	4.30	51.60	135.30	6,981	0.00	0	50.00	2,580
Upper Half - Outer Exhaust Case	TN	1	1.25	15.00	135.30	2,030	0.00	0	50.00	750
Upper Half - Inner Exhaust Case	TN	1	11.00	132.00	135.30	17,860	0.00	0	50.00	6,600
Other Items	TN	1	18.75	225.00	135.30	30,443	0.00	0	50.00	11,250
Total Account 343						127,453		0		47,100
FERC Account 344										
Generators										
Generator - Electric with Soleplates	TN	1	77.00	924.00	135.30	125,017	0.00	0	50.00	46,200
Turbine Copper	TN	1	6.00	12.00	400.00	4,800	0.00	0	710.00	8,520
Rotor and 2 Coupling Hubs	TN	1	6.65	79.80	135.30	10,797	0.00	0	50.00	3,990
Total Account 344						140,614		0		58,710
FERC Account 345										
Accessor Electrical Equipment										
Transformer Copper	TN	1	55.60	55.60	300.00	16,680	0.00	0	710.00	39,476
Transformers	TN	1	139.00	417.00	135.30	56,420	0.00	0	50.00	20,850
Total Account 345						73,100		0		60,326
TOTAL PORT EVERGLADES GAS TURBINES						466,567		92,690		183,136
TOTAL PORT EVERGLADES UNITS 1 THRU 4, TANK FARM, AND GAS TURBINES						20,443,298		4,301,201		3,673,674

PUTNAM PLANT

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Putnam Plant

The Putnam Plant is located on a 59-acre site in Putnam County approximately three miles southeast of Palatka, Florida. Putnam Units No. 1 and 2 are virtually identical in design. Units No. 1 and 2 are combined cycle units that operate on natural gas with #2 light oil as alternative fuel. Both units are also capable of operating on #6 heavy oil. The two units have a combined maximum generator nameplate rating of 580 megawatts. Units No. 1 and 2 went into commercial operation during 1978 and 1977 respectively.

Units No.1 and 2 each consist of essentially two complete Westinghouse Electric Corporation gas turbine generators, each coupled to one electrical generator on the intake side of the respective gas turbine, and one Heat Recovery Steam Generator (HRSG) on the exhaust side of the respective gas turbine. Each gas turbine drives an electrical generator while the exhaust heat from the gas turbine boils water in the HRSG. The superheated steam produced from both HRSGs enters a common steam line and drives one additional steam turbine, which is coupled to an electric generator. The exhaust steam is condensed and the water piped back to the HRSGs for re-use.

Florida Power & Light Company last requested and received approval for dismantlement accruals for the Putnam plant in docket No. 941343-EI, Order No. PSC-95-1532-FOF-EI, issued on December 12, 1995. The current accruals became effective as of January 1, 1995.

PUTNAM
SUMMARY OF DISMANTLEMENT COSTS

FERC Account	Description	Removal Cost (A)	Disposal Cost (B)	Salvage Value (C)	Total (D)=(A + B - C)
<u>Putnam Common</u>					
<u>Production Plant</u>					
341	Structures and Improvements	481,330	1,372,829	43,779	1,810,381
342	Fuel Holders	307,552	491,093	136,529	662,117
343	Prime Movers	79,514	17,597	19,731	77,380
344	Generator Units	0	0	0	0
345	Accessory Electrical Equipment	481,191	89,819	221,640	349,371
346	Miscellaneous Equipment	5,749	0	1,675	4,074
	Subtotal:	1,355,336	1,971,339	423,353	2,903,322
<u>Transmission Plant</u>					
353	Substation Equipment	72,814	0	13,148	59,666
<u>Other Site Costs:</u>					
	Site Mangement Expenses	381,888			381,888
	Intake & Discharge Backfill	28,021			28,021
	Grading & Seeding	1,452,267			1,452,267
	Subtotal:	1,862,176	0	0	1,862,176
	Total	3,290,326	1,971,339	436,501	4,825,164
	Contingency - 16%	526,452	315,414		841,866
	Total Putnam Common	3,816,778	2,286,753	436,501	5,667,030
	Unusable M&S Inventory	769,442		115,416	654,026
		4,586,220	2,286,753	551,917	6,321,056
<u>Putnam Units 1 & 2</u>					
341	Structures and Improvements	276,735	537,689	27,784	786,640
342	Fuel Holders	0	0	0	0
343	Prime Movers	449,151	48,895	201,800	296,247
344	Generator Units	332,632	0	178,062	154,569
345	Accessory Electrical Equipment	0	0	0	0
346	Miscellaneous Equipment	0	0	0	0
	Subtotal	1,058,518	586,584	407,646	1,237,456
	Contingency - 16%	169,363	93,853		263,216
	Total Putnam Units 1 & 2	1,227,881	680,438	407,646	1,500,673
	Total Dismantlement Costs	5,814,101	2,967,190	959,563	7,821,728

**PUTNAM
DISMANTLEMENT COST FOR INFLATION PROJECTION**

Description	Labor (A)	Material & Equipment (B)	Burial (C)	Salvage (D)	Total (A) + (B) + (C) - (D)
Putnam Common	2,290,067	2,296,154	2,286,753	551,917	6,321,056
Putnam Units 1 & 2	736,728	491,152	680,438	407,646	1,500,673
Total	3,026,795	2,787,306	2,967,190	959,563	7,821,728

Labor is 60% of Removal Cost from Summary of Dismantlement Costs.
 Material & Equipment is 40% of Removal Cost from Summary of Dismantlement Costs.
 Burial is 100% of Disposal Cost from Summary of Dismantlement Costs.
 Salvage is 100% of Salvage from Summary of Dismantlement Costs.

PUTNAM DISMANTLEMENT ASSUMPTIONS

FPL will provide management personnel for the dismantlement effort.

FPL will prepare the request for proposal package and solicit bids for the decommissioning effort.

FPL will provide site security during the dismantlement.

FPL will hire a demolition contractor to perform the actual dismantling work. This contractor will have the salvage rights to all plant equipment and structural material.

The land will be made available for future use.

All dismantling work will be done in accordance with OSHA regulations.

The fuel oil storage tanks will be cleaned and their contents disposed of according to the requirements of current regulations.

The following items will be removed:

- a. All structures, equipment, and concrete pads, pedestals, foundations, etc.;
- b. All underground gas, oil, sewer and water piping and electrical conduits (underground concrete piping to be collapsed);
- c. All hazardous and contaminated materials, e.g., acid filled lead batteries, oil tank residue.

Discussions with FPL's Power Generation Services Department (PGS) indicate that the return of the site to a green field condition entails removal of all structures above the wood pilings and steel-encased concrete pilings. The removal of the pilings would be unfeasible and, therefore, will remain in place.

The turbine pedestals and chimney will be control-blasted.

Scrap will be unprepared, i.e., cut only to the extent required to load the pieces on scrap dealers' trailers. Trucking costs for removal are paid by the scrap dealer and are reflected in the salvage value paid.

The estimate does not reflect land value or its resale.

The productivity factors employed are assumed valid for purposes of this study.

A contingency of 16% has been applied to the total removal and disposal costs. This contingency percentage covers costs associated with delays occurring after dismantlement begins, due to such causes as equipment failure and weather delays.

The costs of such overhead items as project management, site security, etc., have been estimated by FPL's PGS Department. These costs are listed on the cost summary pages for each site's dismantlement study.

All materials and equipment are assumed to be either fully salvageable or to be disposed of completely. The availability of powerful cutting shears makes possible the cutting of even the heaviest steel to a size that permits salvage as scrap. Any unusable materials and supplies inventory will be sold as scrap. Estimated balances of such inventory (with an assumption of a 15% salvage value) have been included on the cost summary pages for each site's dismantlement study.

A 30% swell factor is used to compute the disposal cost per cubic yard of concrete. One cubic yard of concrete becomes 1.3 cubic yards of concrete rubble after demolition.

The switchyard and ancillary equipment (FERC account 353) will remain in place with the exception of the main power transformers, oil circuit breakers, superstructures, and foundations associated with the tie-in of plant generated power in the switchyard.

The turbine pedestals and chimneys will be control-blasted.

Transformer and circuit breaker insulating oils are assumed not to contain PCB's. Therefore, the transformers and oil circuit breakers will be salvageable.

It is assumed that dismantlement activity at Putnam plant will begin five years after end of service. The end of service dates used for this assumption conform to the economic recovery period ending dates used in the Putnam plant depreciation study filed as of year end 1997.

Putnam plant is an asbestos free site.

DISMANTLING ACTIVITIES: OIL & GAS & OTHER PRODUCTION PLANTS

- Remove loose equipment, furniture, and spare parts.
- Drain liquids, drum-up, and dispose of drums.
- Remove hazardous materials; i.e., leads (alkaline), acids, solvents, lubricants, oils, chemicals, and gasses.
- Strip all insulation and covering, package and remove to acceptable landfill.
- Collapse circulating water lines and backfill trenches.
- Remove main steam, hot and cold piping, downcomers, valves, and supports, pumps, motors, generator auxiliary equipment, feedwater heaters, soot blowers, and condensers.
- Remove intake and discharge structures, equipment pumps, piping and valves.
- Remove systems that must be completed prior to the start of the boiler removal including lube oil pumps, all piping, instrument and electrical systems.
- Remove forced drafts and induced draft ductwork, air heaters and fans.
- Remove hoppers, burners, upper and lower headers, manways, and waterwalls.
- Remove heavy steel structures and above ground steel – precut key members, lower and cut at ground level.
- Disassemble crane, boiler feed pumps, and turbine generator.
- Separate scrap metals, and remove to scrap yard.
- Remove and dispose of miscellaneous rubble.
- Remove turbine pedestal, foundation, and heavy concrete structures and building, stack foundations, equipment foundations, substructures, support buildings and stacks. Remove to landfill.
- Cut off piles and remove pile caps. Remove concrete encased duct banks and underground piping.
- Remove septic tank and backfill.
- Remove underground storage tanks.
- Test and remove contaminated soil/bases – all areas.
- Install environmental monitoring equipment such as wells.
- Remove or improve remaining site facilities such as buildings, fences, parking areas in accordance with local code and regulations.
- Install/modify existing site storm water runoff system.

DISMANTLING ACTIVITIES: OIL & GAS AND OTHER PRODUCTION PLANTS

(Continued)

- Remove switchyard electrical equipment, structures, and foundations. Modify services to remaining occupied structures as required.
- Remove gas supply metering site, valve stations, underground distribution system.
- Backfill, site grading, seeding, mulching.
- Remove solid and liquid wastes from waste treatment processing areas – landfilled material, precipitated material in ponds and tanks, contaminated resins and reactants.
- Remove marine facilities such as fuel unloading docks, equipment, bridges, and dams.
- Cut and remove fuel oil tanks, piping, valves, and supports.
- Remove top soil/gravel, backfill, and remove barrier wall foundation.

PUTNAM DISMANTLEMENT STUDY

DEVELOPMENT OF COST FACTORS

Cost factors have been developed to compute the net salvage value of the demolition of the Putnam Plant. The net salvage value of the demolition is the net of: the removal and disposal cost and the salvage value of equipment and steel not disposed of. These factors provide a unit cost or value for removal, disposal and salvage of a given unit of measure of the component materials of which a power plant is constructed. The assumption is that the cost or value per unit of a given component can be multiplied by the quantity of that component in the plant to calculate a total cost or value for removal, disposal, or salvage of that component.

REMOVAL COST FACTORS

The removal cost factors developed for this study have two elements: a burdened labor rate and productivity factor. The burdened labor rate multiplied by the productivity factor yields the removal cost factor. The labor rates used in this study were developed by FPL's Power Generation Services Department (PGS). The crew rate per man-hour is for a crew consisting of six journeymen laborers, one laborer foreman and one heavy equipment operator - a typical crew for demolition work. The rate includes the cost per man-hour of a Trojan 3500Z front end loader with a four yard bucket, and an American 9310, two hundred twenty-five ton crane with a two hundred foot boom. The productivity factors employed, e.g., the number of man-hours required to remove a given unit of measure of concrete, were developed by an engineering consulting firm. These factors are assumed valid for purposes of this study.

Labor Rate

Labor rates are based on Means non-union wages for 1998. The rates are adjusted to reflect non-union wages and factored to the geographical location of the site. Wage rates are based on a 40 hour work week.

Labor	\$22.57	X	6	=	\$135.40
Foreman	\$28.99	X	1	=	\$28.99
Heavy Equipment Operator	\$27.03	X	1	=	\$27.03
Total Cost per hour of 8 man crew					<u>\$191.42</u>
Cost per man hour			\$191.42 / 8 =		<u><u>\$23.93</u></u>

Equipment Rate

The equipment rate is based on the following equipment:

Excavator					14,968.30
Front End Loader					5,092.50
Cutting Equipment					200.00
Total per month					<u>\$20,260.80</u>
20,260.80	/	176	hours per month =		115.12
Cost per man hour			\$115.12 / 8 =		\$14.39
Plus: amount for small tools					0.80
Total Cost per man hour					<u><u>\$15.19</u></u>

PUTNAM DISMANTLEMENT STUDY

Equipment & Labor Summary

Labor	\$23.93
Equipment	15.19
Total	<u>\$39.12</u>
Rounded	<u>\$39.00</u>
For Concrete demolition add \$4.00 per hour additional equipment charge.	<u>\$43.00</u>

The Removal Cost Factor is the product of the productivity factor for removal of a particular component multiplied by the total burdened hourly labor rate. The removal cost factors for all materials to be removed from FPL's sites are as follows:

<u>Components</u>	<u>Hourly Rate</u>	<u>Productivity Factor</u>	<u>Removal Factor</u>
Extra Heavy Steel (1)	\$39.00	2.50 MH / Ton	\$97.50 / Ton
Heavy Steel (2)	\$39.00	3.30 MH / Ton	\$128.70 / Ton
General Steel	\$39.00	4.40 MH / Ton	\$171.60 / Ton
Light Steel	\$39.00	7.10 MH / Ton	\$276.90 / Ton
Concrete	\$43.00	0.48 MH / CY	\$20.64 / CY
Reinforced Concrete	\$43.00	1.20 MH / CY	\$51.60 / CY
Copper-Elect. Cable & Generator Leads &	\$39.00	12.00 MH / Ton	\$468.00 / Ton
Copper - Generator			\$400.00 / Ton
Copper - Transformer			\$300.00 / Ton
General Insulation	\$39.00	1.00 MH / CY	\$39.00 / CY
Inground Pipe-Metal(3)	\$39.00	6.00 MH / Ton	\$234.00 / Ton
Concrete Pipe (collapsed)	\$43.00	4.60 MH / Ton	\$197.80 / Ton

(1) Includes turbine generator.

(2) Includes parts of the steam generator, pipe larger than 8 inches.

(3) Includes cost to backfill the trenches.

DISPOSAL COST FACTORS

Three cost factors were developed to compute the cost of disposal of non-hazardous wastes at the Putnam County Landfill located at 140 County Landfill Road in Palatka, Florida.

Concrete and calcium silicated insulation are all non-hazardous wastes. The tipping fee of \$63/ton was obtained from the Putnam County Landfill and dumpster charge of \$126/ haul (including driver) was obtained from Waste Management Inc.

Cost factors were also developed to compute the cost of removal and disposal of oil tanks, including the cost of related soil remediation. Such costs are computed for each tank in FPL's system, and are located appropriately in the detailed spreadsheet.

PUTNAM DISMANTLEMENT STUDY

Concrete

One cubic yard of concrete in place weighs 3,950 pounds. One cubic yard becomes 1.3 cubic yards after demolition. Each load will contain 15.38 cubic yards (20 cu. yds./1.3) of in place concrete. 15.38 cubic yards weighs 61,000 pounds or 30.50 tons.

Dumpster Charge	\$126.00 /haul	X	1 haul	\$126.00
Tipping Fees	\$63.00 / ton	X	30.5 tons	= 1,921.50
Total Cost per round Trip				<u>\$2,047.50</u>

Cost per Cubic Yard	\$2,047.50 / 15.38 cubic yards =	\$133.13
Plus 10% contractor profit		13.31
Total Cost per Cubic Yard		<u>\$146.44</u>

Rounded Cost per Cubic Yard	<u>\$146.00</u>
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Insulation - Calcium Silicate (Non-Hazardous)

A trailer with a 20 cubic yard capacity is used for insulation as well as for concrete. For purposes of this computation the dumpster is assumed to be 90% full (although the tipping fee is based on the assumption of 100% full truck - i.e., the weight to volume conversion uses 20 cubic yards - the full volume of the dumpster). A cubic yard of calcium silicate insulation weighs 121.5 pounds or .060750 tons. 20 cubic yards times .060750 tons/cubic yard = 1.21 tons.

Dumpster Charge	\$126.00 /haul	X	1 haul	126.00
Tipping Fees	\$63.00 / ton	X	1.21 tons	= 76.23
Total Cost per round Trip				<u>202.23</u>

Cost per Cubic Yard	\$202.23 / 18 cubic yards =	\$11.24
Plus 10% contractor profit		1.12
Total Cost per Cubic Yard		<u>\$12.36</u>

Rounded Cost per Cubic Yard	<u>\$12.00</u>
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PUTNAM DISMANTLEMENT STUDY

SALVAGE VALUE FACTORS

The salvage value factors, presented in dollars per ton, were provided by FPL's Investment Recovery Department. The list covers all salvageable materials recovered from FPL sites.

Iron & Steel	\$50 / ton
Stainless Steel	\$300 / ton
Aluminum (Sheet Metal)	\$540 / ton
Wire & Cable:	
- Insulated Copper	\$760 / ton
- Insulated Aluminum	\$600 / ton
Copper	\$710 / ton
Nickel Alloys (Feedwater Heaters):	
- 70/30 Cupro-Nickel	\$1,490 / ton
- 80/20 Cupro-Nickel	\$1,250 / ton
- Monel	\$2,340 / ton
Admiralty Brass	\$540 / ton
Aluminum Brass	\$140 / ton
Titanium	\$1,320 / ton

OTHER SITE COSTS

Site Management Expenses

Site management expenses refer to FPL's management costs and contractors' expenses associated with the dismantlement project. The cost factors provided by FPL's Power Generation Services Department (PGS) are: FPL expenses of \$13,901 per month both office and site, and contractor's expenses of \$17,923 per month. for site indirect costs. These expenses are to be incurred over the 12 month dismantlement period for the Putnam plant. FPL management costs include administration, engineering, permit costs and various other costs. Contractor's expenses include field management, supervision, security, etc..

Site Management Expenses per month	\$31,824
Number of months	12.00
Total Site Mangement Expenses	<u>\$381,888</u>

Intake & Discharge Backfill

FPL's PGS Department developed this cost factor on the basis of a typical such structure for FPL's production plants. The assumption is that a volume of 1,600 cubic yards for the intake and 1,120 cubic yards for the discharge will need to be filled. The cost for the intake is \$28,021 the cost for the discharge is \$22,237. Putnam has 1 Intake and no Discharge. Total back-fill costs are as computed as follows:

	<u>Cost/Struct</u>	<u>Quantity</u>	<u>Totals</u>
Intake	\$28,021	1	\$28,021
Discharge	\$22,237	0	\$0
			<u>\$28,021</u>

PUTNAM DISMANTLEMENT STUDY

Grading and Seeding

This cost refers to the restoration of the dismantled area to a green field area. The land is filled with sand, spread with topsoil and then seeded. The cost factor provided by PGS is \$40,229 per acre. The acreage was determined for each site by reviewing engineering drawings to determine the areas requiring this effort. Assumptions underlying this cost factor include 2,000 cubic yards per acre to be backfilled and 968 cubic yards per acre of topsoil to be spread and seeded.

Putnam Acreage to be graded and seeded	36.10
Cost Factor	\$40,229
Total Grading and Seeding Expense	<u>\$1,452,267</u>

PUTNAM DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
PUTNAM COMMON										
FERC Account 341										
<u>Structures & Improvements</u>										
Concrete Pavement	CY	1	4,475.00	4,475.00	20.64	92,364	146.00	653,350	0.00	0
Fire Water Piping	TN	1	92.00	92.00	171.60	15,787	0.00	0	50.00	4,600
Fire Water Tank (100,000 gl)	TN	1	32.43	32.43	171.60	5,565	0.00	0	50.00	1,622
Fire Water Pumps	TN	1	2.00	2.00	171.60	343	0.00	0	50.00	100
Highway Crossing	CY	1	1,774.00	1,774.00	51.60	91,538	146.00	259,004	0.00	0
Barge Unloading Facility - Concrete	CY	1	725.00	725.00	51.60	37,410	146.00	105,850	0.00	0
Barge Unloading Facility - Steel	TN	1	12.70	12.70	128.70	1,634	0.00	0	50.00	635
HVAC Ventilating Fan	TN	1	1.00	1.00	171.60	172	0.00	0	50.00	50
Concrete Enclosure	CY	1	50.00	50.00	20.64	1,032	146.00	7,300	0.00	0
Subtotal						245,846		1,025,504		7,007
<u>Circulating and Service Water System</u>										
Water Pre-treatment Equipment Foundation	CY	1	17.30	17.30	51.60	893	146.00	2,526	0.00	0
Water Pre-treatment Equipment	TN	1	20.00	20.00	171.60	3,432	0.00	0	50.00	1,000
Water Storage Tank	TN	1	32.43	32.43	171.60	5,565	0.00	0	50.00	1,622
Intake Structure - Concrete	CY	1	310.00	310.00	51.60	15,996	146.00	45,260	0.00	0
Traveling Water Screens	TN	1	14.00	14.00	171.60	2,402	0.00	0	50.00	700
Screen Wash Pumps	TN	2	2.00	4.00	171.60	686	0.00	0	50.00	200
Station Bridge Crane	TN	1	75.00	75.00	128.70	9,653	0.00	0	50.00	3,750
Station Bridge Crane - Structural Steel	TN	1	227.00	227.00	128.70	29,215	0.00	0	50.00	11,350
Cooling Tower	CY	1	1,746.84	1,746.84	51.60	90,137	146.00	255,039	0.00	0
Structural Steel	TN	1	12.00	12.00	128.70	1,544	0.00	0	50.00	600
Chlorination System	TN	2	6.00	12.00	171.60	2,059	0.00	0	50.00	600
Potable Water Piping	TN	1	17.86	17.86	171.60	3,065	0.00	0	50.00	893
Potable Water Equipment	TN	1	9.25	9.25	171.60	1,587	0.00	0	50.00	463
Deminerlizer Pumps	TN	4	1.00	4.00	171.60	686	0.00	0	50.00	200
Waste Water Piping	TN	1	120.87	120.87	171.60	20,741	0.00	0	50.00	6,044
Waste Water Piping Supports	TN	1	9.70	9.70	171.60	1,665	0.00	0	50.00	485
Waste Water Foundations	CY	1	255.00	255.00	51.60	13,158	146.00	37,230	0.00	0
Waste Water Pumps	TN	20	0.25	5.00	171.60	858	0.00	0	50.00	250
Oily Water Separator Tanks (2,500 gl & 125,000 g	TN	1	43.43	43.43	171.60	7,453	0.00	0	50.00	2,172
Subtotal						210,795		340,054		30,327
<u>Fuel Oil Processing</u>										
Concrete Foundations	CY	1	49.80	49.80	51.60	2,570	146.00	7,271	0.00	0
Steel Supports	TN	1	128.90	128.90	171.60	22,119	0.00	0	50.00	6,445
Subtotal						24,689		7,271		6,445
Total Account 341						481,330		1,372,829		43,779
FERC Account 342										
<u>Fuel Holders</u>										
<u>Fuel Oil Equipment</u>										
Fuel Oil Storage Tank - 125,000 bbl	TN	4	421.48	1,685.92	n/a	100,000	n/a	0	50.00	84,296

PUTNAM DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Fuel Oil Storage Tank - 25,000 bbl	TN	1	103.77	103.77	n/a	25,000	n/a	0	50.00	5,189
Fuel Oil Storage Tank - 100,000 bbl	TN	1	337.18	337.18	n/a	25,000	n/a	0	50.00	16,859
Cleaning Fuel Oil Storage Tanks					n/a	0	n/a	130,000	0.00	0
Remove Sand Base - Fuel Oil Storage Tanks					n/a	0	n/a	280,245	0.00	0
Concrete	CY	1	519.90	519.90	51.60	26,827	146.00	75,905	0.00	0
Jib Crane	TN	1	3.00	3.00	128.70	386	0.00	0	50.00	150
Fuel Oil Piping	TN	1	148.90	148.90	171.60	25,551	0.00	0	50.00	7,445
Insulation for Fuel Oil Piping (15,447 lf)	CY	1	411.92	411.92	39.00	16,065	12.00	4,943	0.00	0
Fuel Oil Pump	TN	1	1.25	1.25	171.60	215	0.00	0	50.00	63
Fuel Transfer Pumps	TN	2	1.25	2.50	171.60	429	0.00	0	50.00	125
Fuel Treatment Equipment	TN	1	137.50	137.50	171.60	23,595	0.00	0	50.00	6,875
Fire Foam Protection System Piping	TN	1	31.77	31.77	171.60	5,452	0.00	0	50.00	1,589
Pipe Supports	TN	1	27.70	27.70	171.60	4,753	0.00	0	50.00	1,385
Heat Exchangers	TN	4	0.77	3.08	171.60	529	0.00	0	50.00	154
Vanadium Tank (90,000 gl)	TN	1	29.10	29.10	171.60	4,994	0.00	0	50.00	1,455
Subtotal						258,795		491,093		125,584
Boiler Equipment										
Auxiliary Steam Boiler Equipment	TN	1	80.00	80.00	128.70	10,296	0.00	0	50.00	4,000
Subtotal						10,296		0		4,000
Miscellaneous Steel & Equipment	TN	1	138.90	138.90	276.90	38,461	0.00	0	50.00	6,945
Total Account 342						307,552		491,093		136,529
FERC Account 343										
Prime Movers										
Cooling Water Pumps	TN	2	2.00	4.00	171.60	686	0.00	0	50.00	200
Feedwater Treatment Equipment Foundation	CY	1	112.00	112.00	51.60	5,779	146.00	16,352	0.00	0
Brine System	TN	1	2.00	2.00	171.60	343	0.00	0	50.00	100
Chemical Feed System	TN	1	5.00	5.00	171.60	858	0.00	0	50.00	250
Raw Water Pumps	TN	3	4.00	12.00	171.60	2,059	0.00	0	50.00	600
Piping	TN	1	331.38	331.38	171.60	56,865	0.00	0	50.00	16,569
Pipe Supports	TN	1	20.50	20.50	171.60	3,518	0.00	0	50.00	1,025
Pipe Insulation (6,088 lf)	CY	1	103.72	103.72	39.00	4,045	12.00	1,245	0.00	0
Fan Blower	TN	1	1.00	1.00	171.60	172	0.00	0	50.00	50
Subtotal						74,325		17,597		18,794
Miscellaneous Steel & Equipment	TN	1	18.74	18.74	276.90	5,189	0.00	0	50.00	937
Total Account 343						79,514		17,597		19,731
FERC Account 345										
Accessory Electrical Equipment										
Foundations & Structures										
Manholes	CY	1	272.20	272.20	51.60	14,046	146.00	39,741	0.00	0
Steel Structures & Supports	TN	1	36.90	36.90	128.70	4,749	0.00	0	50.00	1,845

PUTNAM DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Equipment Foundations - Concrete	CY	1	240.00	240.00	51.60	12,384	146.00	35,040	0.00	0
Subtotal						31,179		74,781		1,845
Power and Conversion Equipment										
Main Power Transformer	TN	4	116.50	932.00	276.90	258,071	0.00	0	50.00	46,600
Auxiliary Power Transformer	TN	2	19.00	76.00	276.90	21,044	0.00	0	50.00	3,800
Heat Recovery Steam Generator Transformer	TN	4	4.00	32.00	276.90	8,861	0.00	0	50.00	1,600
Motor Control Center Transformers	TN	16	2.00	64.00	276.90	17,722	0.00	0	50.00	3,200
Transformer Copper	TN	10	2.00	41.60	300.00	12,480	0.00	0	710.00	29,536
Storage Battery Systems	TN	3	3.75	11.25	276.90	3,115	0.00	0	50.00	563
Emergency Diesel Generator	TN	1	8.00	8.00	276.90	2,215	0.00	0	50.00	400
Subtotal						323,508		0		85,699
Conduit, Insulators and Conductors										
Underground Conduit	TN	1	15.40	15.40	276.90	4,264	0.00	0	50.00	770
Concrete	CY	1	103.00	103.00	51.60	5,315	146.00	15,038	0.00	0
Control Wiring	TN	1	110.41	110.41	468.00	51,672	0.00	0	760.00	83,912
Power Wiring	TN	1	45.75	45.75	468.00	21,411	0.00	0	760.00	34,770
Exposed Conduit	TN	1	38.10	38.10	276.90	10,550	0.00	0	50.00	1,905
Cable Trays	TN	1	18.17	18.17	276.90	5,031	0.00	0	50.00	909
Lighting Cable	TN	1	2.96	2.96	468.00	1,385	0.00	0	760.00	2,250
Miscellaneous Cable	TN	1	7.00	7.00	468.00	3,276	0.00	0	760.00	5,320
Subtotal						102,904		15,038		129,835
Switching, Control and Protection Equipment										
Switchgear - 4,160v Metalclad	TN	1	40.00	40.00	276.90	11,076	0.00	0	50.00	2,000
Disconnect Switches	TN	11	2.35	25.85	276.90	7,158	0.00	0	50.00	1,293
Lightning and Surge Protection	TN	6	0.25	1.50	276.90	415	0.00	0	50.00	75
Station Grounding System	TN	1	10.68	10.68	276.90	2,957	0.00	0	50.00	534
Potential Transformers	TN	12	0.60	7.20	276.90	1,994	0.00	0	50.00	360
Subtotal						23,600		0		4,262
Total Account 345						481,191		89,819		221,640
FERC Account 346										
Miscellaneous Power Plant Equipment										
Compressed Air System	TN	1	33.50	33.50	171.60	5,749	0.00	0	50.00	1,675
Total Account 346						5,749		0		1,675
FERC Account 353										
Substation Equipment										
240kv Breakers	TN	12	21.13	253.56	276.90	70,211	0.00	0	50.00	12,678
Disconnect Switches	TN	2	2.35	4.70	276.90	1,301	0.00	0	50.00	235
Disconnect Switches - Motor Operated	TN	2	2.35	4.70	276.90	1,301	0.00	0	50.00	235
Total Account 353						72,814		0		13,148

PUTNAM DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
TOTAL PUTNAM COMMON						1,428,150		1,971,339		436,501
PUTNAM UNITS 1 & 2										
FERC Account 341										
Other Buildings										
Concrete	CY	1	442.80	442.80	51.60	22,848	146.00	64,649	0.00	0
Structural Steel	TN	1	6.10	6.10	128.70	785	0.00	0	50.00	305
Steam Turbine Enclosure	TN	1	33.00	66.00	171.60	11,326	0.00	0	50.00	3,300
Steam Turbine Enclosure - Mechanical Skid	TN	1	13.17	26.34	128.70	3,390	0.00	0	50.00	1,317
Steam Turbine Enclosure - General Auxiliary Skid	TN	1	11.54	23.08	128.70	2,970	0.00	0	50.00	1,154
Gas Turbine Enclosure	TN	2	39.00	156.00	171.60	26,770	0.00	0	50.00	7,800
Gas Turbine Enclosure - Mechanical Skid	TN	2	11.03	44.12	128.70	5,678	0.00	0	50.00	2,206
Gas Turbine Enclosure - General Auxiliary Skid	TN	2	11.54	46.16	128.70	5,941	0.00	0	50.00	2,308
Heat Recovery Steam Generator Enclosure	TN	2	33.00	132.00	171.60	22,651	0.00	0	50.00	6,600
HRSB Enclosure - Auxiliary Skid	TN	2	13.97	55.88	128.70	7,192	0.00	0	50.00	2,794
Enclosure Foundations	CY	1	3,240.00	3,240.00	51.60	167,184	146.00	473,040	0.00	0
Subtotal						276,735		537,689		27,784
Total Account 341						276,735		537,689		27,784
FERC Account 343										
Prime Movers										
Gas Turbine	TN	2	131.00	524.00	97.50	51,090	0.00	0	50.00	26,200
Gas Turbine - Starting Package	TN	2	16.00	64.00	128.70	8,237	0.00	0	50.00	3,200
Heat Recovery Steam Generator	TN	2	735.00	2,940.00	97.50	286,650	0.00	0	50.00	147,000
Heat Recovery Steam Generator - Aux. Package	TN	2	40.25	161.00	128.70	20,721	0.00	0	50.00	8,050
High Pressure Steam Drum	TN	2	24.00	96.00	128.70	12,355	0.00	0	50.00	4,800
Boiler Blowdown Tank	TN	2	1.10	4.40	171.60	755	0.00	0	50.00	220
Boiler Feed Pumps (including motors)	TN	2	7.53	30.12	171.60	5,169	0.00	0	50.00	1,506
Concrete	CY	1	100.90	100.90	51.60	5,206	146.00	14,731	0.00	0
Condensate Storage Tank - 150,000 gal	TN	1	41.25	82.50	171.60	14,157	0.00	0	50.00	4,125
Condensate Storage Tank Foundation	CY	1	105.00	210.00	51.60	10,836	146.00	30,660	0.00	0
Condensate Pumps and Motors	TN	2	3.49	13.96	171.60	2,396	0.00	0	50.00	698
Condensate Pump Foundations	CY	2	6.00	24.00	51.60	1,238	146.00	3,504	0.00	0
Stacks	TN	4	3.43	27.44	171.60	4,709	0.00	0	50.00	1,372
Subtotal						423,518		48,895		197,171
Miscellaneous Steel & Equipment	TN	1	92.57	92.57	276.90	25,633	0.00	0	50.00	4,629
Total Account 343						449,151		48,895		201,800
FERC Account 344										
Generator Units										
Steam Turbine Generator Unit	TN	1	302.00	604.00	97.50	58,890	0.00	0	50.00	30,200
Steam Turbine Generator Unit - Mech. Aux. Packa	TN	1	45.25	90.50	128.70	11,647	0.00	0	50.00	4,525
Turbine Copper	TN	1	35.00	70.00	400.00	28,000	0.00	0	710.00	49,700

PUTNAM DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Gas Turbine Generator	TN	2	155.50	622.00	97.50	60,845	0.00	0	50.00	31,100
Gas Turbine Generator - Mech. Aux. Package	TN	2	50.07	200.28	128.70	25,776	0.00	0	50.00	10,014
Heat Exchangers	TN	2	6.00	24.00	171.60	4,118	0.00	0	50.00	1,200
Stack	TN	4	9.80	78.40	171.60	13,453	0.00	0	50.00	3,920
Piping	TN	1	8.42	8.42	171.60	1,445	0.00	0	50.00	421
Pipe Racks and Supports	TN	1	72.30	72.30	171.60	12,407	0.00	0	50.00	3,615
Subtotal						216,382		0		134,695
Condensers and Auxiliaries										
Condenser Enclosure	TN	1	26.78	53.56	171.60	9,191	0.00	0	50.00	2,678
Main Condenser	TN	1	122.73	245.46	128.70	31,591	0.00	0	50.00	12,273
Condenser - Aluminum-Brass Tubes	TN	1	71.27	142.54	276.90	39,469	0.00	0	140.00	19,956
Auxiliary Circulating Water Pumps	TN	3	3.36	10.08	171.60	1,730	0.00	0	50.00	504
Circulating Water Pumps	TN	2	14.45	57.80	171.60	9,918	0.00	0	50.00	2,890
Condensate Pumps	TN	1	3.13	6.26	171.60	1,074	0.00	0	50.00	313
Piping (4,157 lf)	TN	1	21.57	21.57	171.60	3,701	0.00	0	50.00	1,079
Air Ejectors	TN	2	1.23	4.92	171.60	844	0.00	0	50.00	246
Hogging and Priming Ejectors	TN	1	1.23	2.46	171.60	422	0.00	0	50.00	123
Subtotal						97,941		0		40,061
Miscellaneous Steel & Equipment	TN	1	66.12	66.12	276.90	18,309	0.00	0	50.00	3,306
Total Account 344						332,632		0		178,062
TOTAL PUTNAM UNITS 1 & 2						1,058,518		586,584		407,646
TOTAL PUTNAM COMMON, UNITS 1 & 2						2,486,668		2,557,923		844,146

RIVIERA PLANT

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Riviera Plant

The Riviera Plant is located on a 21.7-acre oceanfront site at Riviera Beach, which is approximately 10 miles north of the city of West Palm Beach, Florida. The site consists of two generating units, a switchyard, and all related facilities for a commercial generating station. The original Ebasco Service design for Units No. 3 & 4 was for natural gas or oil-fired operation. The plant has a once-through cooling system using the Atlantic Ocean for both intake and discharge. The two units have a combined maximum generator nameplate rating of 621 megawatts. Units No. 3 and 4 went into commercial operation during 1962 and 1963 respectively.

Units No. 3 and 4 essentially consist of one complete General Electric Company condensing steam turbine coupled to a hydrogen-cooled electric generator. Each unit has a Foster Wheeler Corporation outdoor, front-fired, natural circulation, waterwall, radiant-convection, reheat type steam generator. Although normally fueled by natural gas, the units can alternatively be operated by #6 heavy oil. Fuel, oil or gas, is provided primarily through separate pipelines from the Port of Palm Beach, but can also be fed from barges or ships via the ocean. Control of emissions is through mechanical collectors and through controlled sulfur content of the fuel.

Florida Power & Light Company last requested and received approval for dismantlement accruals for the Riviera plant in docket No. 941343-EI, Order No. PSC-95-1532-FOF-EI, issued on December 12, 1995. The current accruals became effective as of January 1, 1995.

RIVIERA
SUMMARY OF DISMANTLEMENT COSTS

FERC Account	Description	Removal Cost (A)	Disposal Cost (B)	Salvage Value (C)	Total (D)=(A + B - C)
Production Plant					
Riviera Common					
311	Structures and Improvements	630,146	2,011,647	132,714	2,509,079
312	Boiler Plant Equipment	10,000	41,807	2,014	49,793
314	Turbogenerator Units	0	0	0	0
315	Accessory Electrical Equipment	10,071	0	12,442	(2,371)
316	Miscellaneous Equipment	1,047	0	305	742
	Subtotal	651,263	2,053,454	147,475	2,557,243
Transmission Plant					
353	Substation Equipment	120,628	19,603	85,790	54,441
Other Site Costs:					
	Site Management Expense	381,888			381,888
	Intake & Discharge Backfill	78,279			78,279
	Grading & Seeding	981,588			981,588
	Subtotal	1,441,755	0	0	1,441,755
	Total	2,213,646	2,073,057	233,265	4,053,438
	Contingency - 16%	354,183	331,689		685,872
	Total Riviera Common	2,567,829	2,404,746	233,265	4,739,310
	Unusable M&S Inventory	678,341		101,751	576,590
		3,246,170	2,404,746	335,016	5,315,900
Riviera Units 3 & 4					
311	Structures and Improvements	1,274,698	1,184,964	38,253	2,421,409
312	Boiler Plant Equipment	3,677,204	420,546	579,938	3,517,812
314	Turbogenerator Units	2,363,220	390,513	321,267	2,432,466
315	Accessory Electrical Equipment	211,445	97,724	212,903	96,266
316	Miscellaneous Equipment	0	0	0	0
	Subtotal	7,526,566	2,093,747	1,152,360	8,467,953
	Contingency - 16%	1,204,251	334,999		1,539,250
	Total Riviera Units 3 & 4	8,730,817	2,428,746	1,152,360	10,007,203
Total Dismantlement Costs					
		11,976,987	4,833,492	1,487,376	15,323,103
Riviera Unit 2					
311	Structures and Improvements	286,430	282,961	11,079	558,312
312	Boiler Plant Equipment	28,431	23,502	4,211	47,722
314	Turbogenerator Units	712,294	101,349	112,773	700,870
315	Accessory Electrical Equipment	65,135	29,418	57,033	37,520
316	Miscellaneous Equipment	0	0	0	0
353	Substation Equipment	31,914	15,004	7,205	39,713
	Subtotal	1,124,204	452,234	192,300	1,384,137
	Contingency - 16%	179,873	72,357		252,230
	Total Riviera Unit 2	1,304,077	524,591	192,300	1,836,367

**RIVIERA
DISMANTLEMENT COST FOR INFLATION PROJECTION**

Description	Labor (A)	Material & Equipment (B)	Burial (C)	Salvage (D)	Total (A) + (B) + (C) - (D)
Riviera Common	1,540,697	1,705,473	2,404,746	335,016	5,315,900
Riviera Units 3 & 4	5,238,490	3,492,327	2,428,746	1,152,360	10,007,203
Total	6,779,187	5,197,799	4,833,492	1,487,376	15,323,103
Riviera Unit 2	782,446	521,631	524,591	192,300	1,636,367

Labor is 60% of Removal Cost from Summary of Dismantlement Costs.
 Material & Equipment is 40% of Removal Cost from Summary of Dismantlement Costs.
 Burial is 100% of Disposal Cost from Summary of Dismantlement Costs.
 Salvage is 100% of Salvage from Summary of Dismantlement Costs.

RIVIERA DISMANTLEMENT ASSUMPTIONS

FPL will provide management personnel for the dismantlement effort.

FPL will prepare the request for proposal package and solicit bids for the decommissioning effort.

FPL will provide site security during the dismantlement.

FPL will hire a demolition contractor to perform the actual dismantling work. This contractor will have the salvage rights to all plant equipment and structural material.

The land will be made available for future use.

All dismantling work will be done in accordance with OSHA regulations.

The fuel oil storage tanks will be cleaned and their contents disposed of according to the requirements of current regulations.

The following items will be removed:

- a. All structures, equipment, and concrete pads, pedestals, foundations, etc.;
- b. All underground gas, oil, sewer and water piping and electrical conduits (underground concrete piping to be collapsed);
- c. All hazardous and contaminated materials, e.g., acid filled lead batteries, oil tank residue.

Discussions with FPL's Power Generation Services Department (PGS) indicate that the return of the site to a green field condition entails removal of all structures above the wood pilings and steel-encased concrete pilings. The removal of the pilings would be unfeasible and, therefore, will remain in place.

The turbine pedestals and chimney will be control-blasted.

Only the first 100 feet of each 2,330 foot run of 90 inch subaqueous concrete discharge piping will be collapsed and backfilled, because collapsing and backfilling the remainder would disturb the underwater environment of Lake Worth.

Scrap will be unprepared, i.e., cut only to the extent required to load the pieces on scrap dealers' trailers. Trucking costs for removal are paid by the scrap dealer and are reflected in the salvage value paid.

The estimate does not reflect land value or its resale.

The productivity factors employed are assumed valid for purposes of this study.

A contingency of 16% has been applied to the total removal and disposal costs. This contingency percentage covers costs associated with delays occurring after dismantlement begins due to such causes as equipment failure and weather delays.

The costs of such overhead items as project management, site security, etc., have been estimated by FPL's PGS Department. These costs are listed on the cost summary pages for each site's dismantlement study.

All materials and equipment are assumed to be either fully salvageable or to be disposed of completely. The availability of powerful cutting shears makes possible the cutting of even the heaviest steel to a size that permits salvage as scrap. Any unusable materials and supplies inventory will be sold as scrap. Estimated balances of such inventory (with an assumption of a 15% salvage value) have been included on the cost summary pages for each site's dismantlement study.

A 30% swell factor is used to compute the disposal cost per cubic yard of concrete. One cubic yard of concrete becomes 1.3 cubic yards of concrete rubble after demolition.

The switchyard and ancillary equipment (FERC account 353) will remain in place with the exception of the main power transformers, oil circuit breakers, superstructures, and foundations associated with the tie-in of plant generated power in the switchyard.

The turbine pedestals and chimneys will be control-blasted.

Transformer and circuit breaker insulating oils are assumed not to contain PCB's. Therefore, the transformers and oil circuit breakers will be salvageable.

It is assumed that dismantlement activity at Riviera plant will begin five years after end of service. The end of service dates used for this assumption conform to the economic recovery period ending dates used in the Riviera plant depreciation study filed as of year end 1997.

Asbestos abatement activity is currently driven by maintenance considerations and it is not appropriate to assume that significant quantities will be abated by the units' end of service dates. Though some abatement has occurred, substantial amounts of asbestos remain and can be expected to require abatement at final dismantlement. FPL's PGS Department has estimated the cost of asbestos removal at \$1,250 per cubic yard and disposal at \$100 per cubic yard. These rates are supported by recent FPL experience.

DISMANTLING ACTIVITIES: OIL & GAS & OTHER PRODUCTION PLANTS

- Remove loose equipment, furniture, and spare parts.
- Drain liquids, drum-up, and dispose of drums.
- Remove hazardous materials; i.e., leads (alkaline), acids, solvents, lubricants, oils, chemicals, and gasses.
- Strip all insulation and covering, package and remove to acceptable landfill.
- Collapse circulating water lines and backfill trenches.
- Remove main steam, hot and cold piping, downcomers, valves, and supports, pumps, motors, generator auxiliary equipment, feedwater heaters, soot blowers, and condensers.
- Remove intake and discharge structures, equipment pumps, piping and valves.
- Remove systems that must be completed prior to the start of the boiler removal including lube oil pumps, all piping, instrument and electrical systems.
- Remove forced drafts and induced draft ductwork, air heaters and fans.
- Remove hoppers, burners, upper and lower headers, manways, and waterwalls.
- Remove heavy steel structures and above ground steel – precut key members, lower and cut at ground level.
- Disassemble crane, boiler feed pumps, and turbine generator.
- Separate scrap metals, and remove to scrap yard.
- Remove and dispose of miscellaneous rubble.
- Remove turbine pedestal, foundation, and heavy concrete structures and building, stack foundations, equipment foundations, substructures, support buildings and stacks. Remove to landfill.
- Cut off piles and remove pile caps. Remove concrete encased duct banks and underground piping.
- Remove septic tank and backfill.
- Remove underground storage tanks.
- Test and remove contaminated soil/bases – all areas.
- Install environmental monitoring equipment such as wells.
- Remove or improve remaining site facilities such as buildings, fences, parking areas in accordance with local code and regulations.
- Install/modify existing site storm water runoff system.

DISMANTLING ACTIVITIES: OIL & GAS AND OTHER PRODUCTION PLANTS

(Continued)

- Remove switchyard electrical equipment, structures, and foundations. Modify services to remaining occupied structures as required.
- Remove gas supply metering site, valve stations, underground distribution system.
- Backfill, site grading, seeding, mulching.
- Remove solid and liquid wastes from waste treatment processing areas – landfilled material, precipitated material in ponds and tanks, contaminated resins and reactants.
- Remove marine facilities such as fuel unloading docks, equipment, bridges, and dams.
- Cut and remove fuel oil tanks, piping, valves, and supports.
- Remove top soil/gravel, backfill, and remove barrier wall foundation.

DEVELOPMENT OF COST FACTORS

Cost factors have been developed to compute the net salvage value of the demolition of the Riviera Plant. The net salvage value of the demolition is the net of: the removal and disposal cost and the salvage value of equipment and steel not disposed of. These factors provide a unit cost or value for removal, disposal and salvage of a given unit of measure of the component materials of which a power plant is constructed. The assumption is that the cost or value per unit of a given component can be multiplied by the quantity of that component in the plant to calculate a total cost or value for removal, disposal, or salvage of that component.

REMOVAL COST FACTORS

The removal cost factors developed for this study have two elements: a burdened labor rate and productivity factor. The burdened labor rate multiplied by the productivity factor yields the removal cost factor. The labor rates used in this study were developed by FPL's Power Generation Services Department. The crew rate per man-hour is for a crew consisting of six journeymen laborers, one laborer foreman and one heavy equipment operator - a typical crew for demolition work. The rate includes the cost per man-hour of a Trojan 3500Z front end loader with a four yard bucket, and an American 9310, two hundred twenty-five ton crane with a two hundred foot boom. The productivity factor employed, i.e., the number of man-hours required to remove a given unit of measure of concrete, were developed by an engineering consulting firm. These factors are assumed valid for purposes of this study.

Labor Rate

Labor rates are based on Means Union wages for 1998. The rates are adjusted to reflect non-union crews and factored to the geographical location of the site. Wage rates are based on a 40 hour work week.

Labor	\$22.79	X	6	=	\$136.75
Foreman	\$29.28	X	1	=	29.28
Heavy Equipment Operator	\$27.30	X	1	=	27.30
Total Cost per hour of 8 man crew					<u>\$193.33</u>

Cost per man hour \$193.33 / 8 = \$24.17

Equipment Rate

The equipment rate is based on the following equipment:

Excavator	14,968.30
Front End Loader	5,092.50
Cutting Equipment	200.00
Total per month	<u>\$20,260.80</u>

20,260.80 / 176 hours per month = 115.12

Cost per man hour	\$115.12 / 8 =	\$14.39
Plus: amount for small tools		0.80
Total Cost per man hour		<u><u>\$15.19</u></u>

RIVIERA DISMANTLEMENT STUDY

Equipment & Labor Summary

Labor	\$24.17
Equipment	15.19
Total	<u>\$39.36</u>
Rounded	<u>\$39.00</u>
For Concrete demolition add \$4.00 per hour additional equipment charge.	<u>\$43.00</u>

The Removal Cost Factor is the product of the productivity factor for removal of a particular component multiplied by the total burdened hourly labor rate. The removal cost factors for all materials to be removed from FPL's sites are as follows:

Components	Hourly Rate	Productivity Factor	Removal Factor
Extra Heavy Steel (1)	\$39.00	2.50 MH / Ton	\$97.50 / Ton
Heavy Steel (2)	\$39.00	3.30 MH / Ton	\$128.70 / Ton
General Steel	\$39.00	4.40 MH / Ton	\$171.60 / Ton
Light Steel	\$39.00	7.10 MH / Ton	\$276.90 / Ton
Concrete	\$43.00	0.48 MH / CY	\$20.64 / CY
Reinforced Concrete	\$43.00	1.20 MH / CY	\$51.60 / CY
Copper-Elect. Cable & Generator Leads &	\$39.00	12.00 MH / Ton	\$468.00 / Ton
Copper - Generator			\$400.00 / Ton
Copper - Transformer			\$300.00 / Ton
General Insulation	\$39.00	1.00 MH / CY	\$39.00 / CY
Inground Pipe-Metal(3)	\$39.00	6.00 MH / Ton	\$234.00 / Ton
Concrete Pipe (collapsed)	\$43.00	4.60 MH / Ton	\$197.80 / Ton
Asbestos Insulation			\$1,250.00 / CY

(1) Includes turbine generator.

(2) Includes parts of the steam generator, pipe larger than 8 inches.

(3) Includes cost to backfill the trenches.

DISPOSAL COST FACTORS

Three cost factors were developed to compute the cost of disposal of non-hazardous wastes at the Palm Beach County Landfill located at 6554 North Jog Road in West Palm Beach, Florida. Concrete and calcium silicated insulation are all non-hazardous wastes. The tipping fee of \$37/ton and the dumpster charge of \$108.15/haul was obtained from the Palm Beach County Landfill.

Cost factors were also developed to compute the cost of removal and disposal of oil tanks, including the cost of related soil remediation. Such costs are computed for each tank in FPL's system, and are located appropriately in the detailed spreadsheet.

RIVIERA DISMANTLEMENT STUDY

Concrete

One cubic yard of concrete in place weighs 3,950 pounds. One cubic yard becomes 1.3 cubic yards after demolition. Each load will contain 15.38 cubic yards (20 cu. yds./1.3) of in place concrete. 15.38 cubic yards weighs 61,000 pounds or 30.50 tons.

Dumpster Charge	\$108.15 /haul	X	1 haul	=	108.15
Tipping Fees	\$37.00 / ton	X	30.5 tons	=	1,128.50
Total Cost per round Trip					<u>1,236.65</u>

Cost per Cubic Yard	\$1,236.65 / 15.38 cubic yards =				\$80.41
Plus 10% contractor profit					<u>8.04</u>
Total Cost per Cubic Yard					<u><u>\$88.45</u></u>

Rounded Cost per Cubic Yard					<u><u>\$88.00</u></u>
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Insulation - Calcium Silicate (Non-Hazardous)

A trailer with a 40 cubic yard capacity is used for insulation because of its lighter weight. For purposes of this computation the dumpster is assumed to be 90% full (although the tipping fee is based on the assumption of 100% full truck - i.e., the weight to volume conversion uses 40 cubic yards - the full volume of the dumpster). A cubic yard of calcium silicate insulation weighs 121.5 pounds or .060750 tons. 40 cubic yards times .060750 tons/cubic yard = 2.43 tons. (The dumpster charge for the 40 CY dumpster is the same as for the 20 CY dumpster.)

Dumpster Charge	\$108.15 /haul	X	1 haul	=	108.15
Tipping Fees	\$37.00 / ton	X	2.43 tons	=	89.91
Total Cost per round Trip					<u>\$198.06</u>

Cost per Cubic Yard	\$198.06 / 36 cubic yards =				\$5.50
Plus 10% contractor profit					<u>0.55</u>
Total Cost per Cubic Yard					<u><u>\$6.05</u></u>

Rounded Cost per Cubic Yard					<u><u>\$6.00</u></u>
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Insulation -Asbestos					<u><u>\$100.00</u></u>
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SALVAGE VALUE FACTORS

The salvage value factors, presented in dollars per ton, were provided by FPL's Investment Recovery Department. The list covers all salvageable materials recovered from FPL sites.

Iron & Steel	\$50 / ton
Stainless Steel	\$300 / ton
Aluminum (Sheet Metal)	\$540 / ton
Wire & Cable:	
- Insulated Copper	\$760 / ton
- Insulated Aluminum	\$600 / ton
Copper	\$710 / ton
Nickel Alloys	
- 70/30 Cupro-Nickel	\$1,490 / ton
- 80/20 Cupro-Nickel	\$1,250 / ton
- Monel	\$2,340 / ton
Admiralty Brass	\$540 / ton
Aluminum Brass	\$140 / ton
Titanium	\$1,320 / ton

OTHER SITE COSTS

Site Management Expenses

Site management expenses refer to FPL's management costs and contractors' expenses associated with the dismantlement project. The cost factors provided by FPL's Power Generation Services Department (PGS) are: FPL expenses of \$13,901 per month both office and site, and contractor's expenses of \$17,923 per month. These expenses are to be incurred over 12 month dismantlement period assumed for the Riviera Plant. FPL's management costs include administration, engineering, permit costs and various other costs. Contractor's expenses include field management, supervision, security, etc..

Site Management Expenses per month	\$31,824
Number of months	12.00
Total Site Management Expenses	<u>\$381,888</u>

Intake & Discharge Backfill

FPL's PGS Department developed this cost factor on the basis of a typical such structure for FPL's production plants. The assumption is that a volume of 1,600 cubic yards for the intake and 1,120 cubic yards for the discharge will need to be filled. The cost for the intake is \$28,021 the cost for the discharge is \$22,237. Riviera has 2 Intakes and 1 Discharge, requiring a total back-fill cost as follows:

	<u>Cost/Unit</u>	<u>Quantity</u>	<u>Totals</u>
Intakes	\$28,021	2	\$56,042
Discharges:	\$22,237	1	\$22,237
Total Cost:			<u>\$78,279</u>

RIVIERA DISMANTLEMENT STUDY

Grading and Seeding

This cost refers to the restoration of the dismantled area to a green field area. The land is filled with sand, spread with topsoil and then seeded. The cost factor provided by PGS is \$40,229 per acre. The acreage was determined for each site by reviewing engineering drawings to determine the areas requiring this effort. Assumptions underlying this cost factor include 2,000 cubic yards per acre to be backfilled and 968 cubic yards per acre of topsoil to be spread and seeded.

Riviera Acreage to be graded and seeded	24.4
Cost Factor	<u>\$40,229</u>
Total Grading and Seeding Expense	<u><u>\$981,588</u></u>

RIVIERA DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost Per Item	Disposal Cost per Unit of Measure	Disposal Portion per Item	Salvage Value per Unit of Measure	Realizable Salvage Value per Item
RIVIERA COMMON										
FERC Account 311										
Improvements to Site										
Concrete - Roads	CY	1	1,030.58	1,030.58	20.64	21,271	88.00	90,691	0.00	0
Concrete - Yard Paving	CY	1	494.67	494.67	20.64	10,210	88.00	43,531	0.00	0
Potable & Sanit Water Lines-Cast Iron	TN	1	18.93	18.93	234.00	4,430	0.00	0	50.00	947
Fire Protection System	TN	1	2.88	2.88	276.90	797	0.00	0	50.00	144
Sewer System - Cast Iron	TN	1	1.69	1.69	234.00	395	0.00	0	50.00	85
Sewer System - Concrete	TN	1	191.72	191.72	197.80	37,922	0.00	0	0.00	0
Manholes & Catch Basins	CY	1	38.31	38.31	51.60	1,977	88.00	3,371	0.00	0
Subtotal						77,003		137,593		1,175
Condensing and Service Water System										
Water Treatment Equipment	TN	1	45.00	45.00	171.60	7,722	0.00	0	50.00	2,250
Water Treatment Area Slab	CY	1	271.00	271.00	51.60	13,984	88.00	23,848	0.00	0
Elevated Water Tank - 75,000 gal	TN	1	128.61	128.61	171.60	22,069	0.00	0	50.00	6,431
Service Water Supply Sys - Cast Iron	TN	1	85.08	85.08	234.00	19,909	0.00	0	50.00	4,254
Disch Piping-90" Concrete Pipe(200 ft)	TN	1	274.00	274.00	197.80	54,197	0.00	0	0.00	0
Subtotal						117,881		23,848		12,935
Station Structures										
Administration Bldg - Struct Steel	TN	1	380.00	380.00	128.70	48,906	0.00	0	50.00	19,000
Administration Building - Concrete	CY	1	3,676.00	3,676.00	51.60	189,682	88.00	323,488	0.00	0
Station Crane	TN	1	96.75	96.75	128.70	12,452	0.00	0	50.00	4,838
Elevator	TN	1	37.60	37.60	128.70	4,839	0.00	0	50.00	1,880
Subtotal						255,878		323,488		25,718
Fuel & Ash Structures										
Fuel Oil Storage Tank - 268,000 bbl	TN	1	925.00	925.00	n/a	37,500	0.00	0	50.00	46,250
Fuel Oil Storage Tank - 150,000 bbl	TN	1	424.89	424.89	n/a	25,000	0.00	0	50.00	21,245
Fuel Oil Storage Tank - 55,000 bbl	TN	2	230.00	460.00	n/a	50,000	0.00	0	50.00	23,000
Fuel Oil Storage Tank - 110,000 bbl-Fndation	CY	1	400.00	400.00	n/a	n/a	n/a	18,957	0.00	0
Cleaning Fuel Oil Storage Tanks	BL	1			n/a	n/a	n/a	392,415	0.00	0
Sand Base-Fuel Oil Storage Tanks	CY	1			n/a	n/a	n/a	1,012,870	0.00	0
Pump Slab & Foundations	CY	1	165.50	165.50	51.60	8,540	88.00	14,564	0.00	0
Fuel Oil Suction Heaters	TN	3	2.35	7.05	171.60	1,210	0.00	0	50.00	353
Chemical Storage Tanks	TN	1	7.80	7.80	171.60	1,338	0.00	0	50.00	390
Subtotal						123,588		1,438,806		91,237
Other Buildings										
Concrete	CY	1	999.00	999.00	51.60	51,548	88.00	87,912	0.00	0
Structural Steel	TN	1	33.00	33.00	128.70	4,247	0.00	0	50.00	1,650
Subtotal						55,796		87,912		1,650
Total Account 311						630,146		2,011,647		132,714
FERC Account 312										
Boiler Plant Equipment										
Fuel Oil & Gas Equipment										

RIVIERA DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost Per Item	Disposal Cost per Unit of Measure	Disposal Portion per Item	Salvage Value per Unit of Measure	Realizable Salvage Value per Item
Metering Tank Foundation	CY	1	95.00	95.00	n/a	n/a	n/a	13,341	0.00	0
Fuel Oil Metering Tank - 4,500 bbl	TN	1	28.00	28.00	n/a	5,000	n/a	0	50.00	1,400
Cleaning Fuel Oil Storage Tanks	EA	1	1.00	1.00	n/a	n/a	n/a	13,000	0.00	0
Sand Base-Fuel Oil Storage Tanks	EA	1	1.00	1.00	n/a	n/a	n/a	5,473	0.00	0
Light Oil Tank	TN	1	12.28	12.28	n/a	5,000	n/a	0	50.00	614
Light Oil Foundation	CY	1	95.00	95.00	n/a	0	n/a	5,513	0.00	0
Cleaning of Light Oil Tank	BL	1	1.00	1.00	n/a	0	n/a	4,480	0.00	0
Total Account 312						10,000		41,807		2,014
FERC Account 315										
Accessory Electrical Equipment										
Power and Conversion Equipment										
Startup Transformer	TN	1	37.25	37.25	128.70	4,794	0.00	0	50.00	1,863
Transformer Copper	TN	1	14.90	14.90	300.00	4,470	0.00	0	710.00	10,579
Storage Battery Equipment	TN	1	4.70	4.70	171.60	807	0.00	0	0.00	0
Total Account 315						10,071		0		12,442
FERC Account 316										
Miscellaneous Power Plant Equipment										
Compressed Air System	TN	1	6.10	6.10	171.60	1,047	0.00	0	50.00	305
Total Account 316						1,047		0		305
TOTAL RIVIERA COMMON						651,263		2,053,454		147,475
RIVIERA UNITS 3 & 4										
FERC Account 311										
Condensing and Service Water System										
Intake Cooling Water Pumps	TN	2	1.15	4.60	171.60	789	0.00	0	50.00	230
Intake Structure - Concrete	CY	1	918.00	1,836.00	51.60	94,738	88.00	161,568	0.00	0
Intake Structure - Steel	TN	1	18.00	36.00	128.70	4,633	0.00	0	50.00	1,800
Traveling Water Screens	TN	2	13.28	53.12	128.70	6,837	0.00	0	50.00	2,656
Trash Rake	TN	1	0.55	1.10	276.90	305	0.00	0	50.00	55
Screen Wash Pumps	TN	1	0.52	1.04	276.90	288	0.00	0	50.00	52
Intake Conduit - 60" Concrete Pipe	CY	1	394.33	788.66	197.80	155,997	0.00	0	0.00	0
Concrete	CY	1	801.00	1,602.00	51.60	82,663	88.00	140,976	0.00	0
Discharge Conduit - 90" Concrete Pipe	CY	1	1,170.66	2,341.32	197.80	463,113	0.00	0	0.00	0
Concrete	CY	1	1,494.00	2,988.00	51.60	154,181	88.00	262,944	0.00	0
Seal Well Concrete Structure	CY	1	210.00	420.00	51.60	21,672	88.00	36,960	0.00	0
Subtotal						985,215		602,448		4,793
Station Structures										
Concrete Pedestal Mat	CY	1	703.50	1,407.00	51.60	72,601	88.00	123,816	0.00	0
Structural Steel	TN	1	289.00	578.00	128.70	74,389	0.00	0	50.00	28,900
Miscellaneous Steel & Handrails	TN	1	39.50	79.00	171.60	13,556	0.00	0	50.00	3,950
Floors - Concrete	CY	1	1,175.25	2,350.50	20.64	48,514	88.00	206,844	0.00	0
Footings, Piers & Grade Beams	CY	1	1,120.00	2,240.00	20.64	46,234	88.00	197,120	0.00	0
Concrete Floodwall	CY	1	311.00	622.00	51.60	32,095	88.00	54,736	0.00	0
Misc. Cranes & Hoists	TN	1	6.10	12.20	171.60	2,094	0.00	0	50.00	610
Subtotal						289,483		582,516		33,460

RIVIERA DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost Per Item	Disposal Cost per Unit of Measure	Disposal Portion per Item	Salvage Value per Unit of Measure	Realizable Salvage Value per Item
Total Account 311						1,274,698		1,184,964		38,253
FERC Account 312										
Boiler Plant Equipment										
Fuel Oil & Gas Equipment										
Burner Pumps	TN	6	0.83	9.96	276.90	2,758	0.00	0	50.00	498
Fuel Oil Piping	TN	1	20.56	41.12	171.60	7,056	0.00	0	50.00	2,056
Forced Draft Fan Foundations	CY	1	138.75	277.50	51.60	14,319	88.00	24,420	0.00	0
Forced Draft Fans	TN	2	26.80	107.20	171.60	18,396	0.00	0	50.00	5,360
Forced Draft Fan Air Ducts	TN	1	40.00	80.00	171.60	13,728	0.00	0	50.00	4,000
Insulation for FD Fan Air Ducts	CY	1	8.00	16.00	39.00	624	6.00	96	0.00	0
Insulation for FD Fan Air Ducts	CY	1	48.27	95.00	1,250.00	118,750	100.00	9,500	0.00	0
Subtotal						175,631		34,016		11,914
Boiler Equipment										
Boiler Frame	TN	1	950.00	1,900.00	128.70	244,530	0.00	0	50.00	95,000
Platforms, Grating & Handrails	TN	1	410.50	821.00	171.60	140,884	0.00	0	50.00	41,050
Boiler - including: Drum, Waterwall, Downcomers & Tubes Piping, Valves & Silencers Radiant & Convection Superheaters Reheater, Economizer & Sootblowers Air Preheaters	TN	1	3,188.18	6,376.36	128.70	820,638	0.00	0	50.00	318,818
Boiler Insulation	CY	1	350.00	700.00	1,250.00	875,000	100.00	70,000	0.00	0
Boiler Insulation	CY	1	40.00	80.00	39.00	3,120	6.00	480	0.00	0
Instrument Air Compressors	TN	1	2.00	4.00	171.60	686	0.00	0	50.00	200
Subtotal						2,084,858		70,480		455,068
Boiler Plant Auxiliaries										
Feedwater Heater #1	TN	1	51.20	102.40	171.60	17,572	0.00	0	50.00	5,120
Feedwater Heater #2	TN	1	32.85	65.70	171.60	11,274	0.00	0	50.00	3,285
Feedwater Heater #3	TN	1	10.85	21.70	171.60	3,724	0.00	0	50.00	1,085
Feedwater Heater #4	TN	1	12.70	25.40	171.60	4,359	0.00	0	50.00	1,270
Feedwater Heater #5	TN	1	13.05	26.10	171.60	4,479	0.00	0	50.00	1,305
Feedwater Heater #6	TN	1	12.80	25.60	171.60	4,393	0.00	0	50.00	1,280
Deaerator	TN	1	73.78	147.56	128.70	18,991	0.00	0	50.00	7,378
Boiler Feed Pumps (including motors)	TN	3	36.50	219.00	128.70	28,185	0.00	0	50.00	10,950
Concrete	CY	1	84.50	169.00	20.64	3,488	88.00	14,872	0.00	0
Condensate Storage Tank - 100,000 gl	TN	1	18.50	37.00	128.70	4,762	0.00	0	50.00	1,850
Condensate Storage Tank Foundation	CY	1	44.00	88.00	51.60	4,541	88.00	7,744	0.00	0
Heater Drain Pump	TN	1	0.83	1.66	276.90	460	0.00	0	50.00	83
Condensate Recovery Tank - 2,600 gl	TN	1	5.60	11.20	171.60	1,922	0.00	0	50.00	560
Chemical Feed System	TN	1	5.00	10.00	171.60	1,716	0.00	0	50.00	500
Cooling Water Pump	TN	2	1.15	4.60	171.60	789	0.00	0	50.00	230
Cooling Water Heat Exchanger	TN	3	7.35	44.10	171.60	7,568	0.00	0	50.00	2,205
Cooling Water Surge Tank - 4,500 gl	TN	1	1.79	3.58	171.60	614	0.00	0	50.00	179
Subtotal						118,836		22,616		37,280

RIVIERA DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost Per Item	Disposal Cost per Unit of Measure	Disposal Portion per Item	Salvage Value per Unit of Measure	Realizable Salvage Value per Item
Boiler Plant Piping										
Piping, Valves and Fittings	TN	1	350.00	700.00	171.60	120,120	0.00	0	50.00	35,000
Pipe Insulation	CY	1	50.00	100.00	39.00	3,900	6.00	600	0.00	0
Pipe Insulation	CY	1	350.00	700.00	1,250.00	875,000	100.00	70,000	0.00	0
Subtotal						999,020		70,600		35,000
Induced Draft Equipment										
Stacks	CY	1	663.00	1,326.00	51.60	68,422	88.00	116,688	0.00	0
Breeching	TN	1	70.00	140.00	171.60	24,024	0.00	0	50.00	7,000
Stack Foundation	CY	1	573.50	1,147.00	51.60	59,185	88.00	100,936	0.00	0
Ducts & Dust Collectors	TN	1	135.65	271.30	171.60	46,555	0.00	0	50.00	13,565
Induced Draft Fans	TN	2	23.20	92.80	128.70	11,943	0.00	0	50.00	4,640
Fan Foundations	CY	2	14.80	59.20	51.60	3,055	88.00	5,210	0.00	0
Subtotal						213,184		222,834		25,205
Miscellaneous Steel & Equipment	TN	1	309.41	309.41	276.90	85,676	0.00	0	50.00	15,471
Total Account 312						3,677,204		420,546		579,938
FERC Account 314										
Turbo-Generator Units										
Pedestal Concrete	CY	1	1,413.50	2,827.00	51.60	145,873	88.00	248,776	0.00	0
Inserts & Anchor Bolts	TN	1	9.01	18.02	276.90	4,990	0.00	0	50.00	901
Turbo-Generator Unit	TN	1	852.00	1,704.00	97.50	166,140	0.00	0	50.00	85,200
Turbine Copper	TN	1	75.00	150.00	400.00	60,000	0.00	0	710.00	108,500
Turbine Piping	TN	1	220.00	440.00	171.60	75,504	0.00	0	50.00	22,000
Turbine Insulation	CY	1	50.00	100.00	39.00	3,900	6.00	600	0.00	0
Turbine Insulation	CY	1	650.00	1,300.00	1,250.00	1,625,000	100.00	130,000	0.00	0
Subtotal						2,081,407		379,376		214,601
Condensers and Auxiliaries										
Condenser Shell	TN	1	425.00	850.00	128.70	109,395	0.00	0	50.00	42,500
Condenser - Aluminum-Brass Tubes	TN	1	141.50	283.00	276.90	78,363	0.00	0	140.00	39,620
Circulating Water Pumps	TN	2	58.40	233.60	128.70	30,064	0.00	0	50.00	11,680
Butterfly Valves	TN	4	6.40	51.20	171.60	8,786	0.00	0	50.00	2,560
Condensate Pumps	TN	2	6.50	26.00	171.60	4,462	0.00	0	50.00	1,300
Concrete	CY	1	6.50	13.00	20.64	268	88.00	1,144	0.00	0
Lube Oil Purif Sys-6,500 gl Tank	TN	1	6.99	13.98	n/a	5,000	0.00	0	50.00	699
L.O. Tank - Cleaning		1	n/a	n/a	n/a	0	n/a	4,480	n/a	0
L.O. Tank -		1	n/a	n/a	n/a	0	n/a	5,513	n/a	0
Steam Jet Air Ejector	TN	1	2.50	5.00	171.60	858	0.00	0	50.00	250
Subtotal						237,196		11,137		98,609
Miscellaneous Steel & Equipment	TN	1	161.13	161.13	276.90	44,617	0.00	0	50.00	8,057
Total Account 314						2,363,220		390,513		321,267
FERC Account 315										
Accessory Electrical Equipment										

RIVIERA DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost Per Item	Disposal Cost per Unit of Measure	Disposal Portion per Item	Salvage Value per Unit of Measure	Realizable Salvage Value per Item
Foundations & Structures										
Steel Structures & Supports	TN	1	2.00	4.00	171.60	686	0.00	0	50.00	200
Equipment Foundations - Concrete	CY	1	94.00	188.00	51.60	9,701	88.00	16,544	0.00	0
Switchgear Foundations - Concrete	CY	1	109.00	218.00	51.60	11,249	88.00	19,184	0.00	0
Manholes and Handholes	CY	1	27.50	55.00	51.60	2,838	88.00	4,840	0.00	0
Subtotal						24,474		40,568		200
Power and Conversion Equipment										
Aux Power Transformer	TN	1	37.25	74.50	128.70	9,588	0.00	0	50.00	3,725
Transformer Copper	TN	1	16.72	16.72	300.00	5,017	0.00	0	710.00	11,874
Station Service Transformers	TN	2	4.35	17.40	171.60	2,986	0.00	0	50.00	870
Lighting Transformers	TN	8	0.21	3.36	276.90	930	0.00	0	50.00	168
Subtotal						18,522		0		16,637
Conduit, Insulators and Conductors										
Concrete - UG Duct	CY	1	324.75	649.50	51.60	33,514	88.00	57,156	0.00	0
Conductors - Generator Leads	TN	1	18.00	36.00	468.00	16,848	0.00	0	710.00	25,560
Power Wiring	TN	1	46.48	92.96	468.00	43,505	0.00	0	760.00	70,650
Control Wiring	TN	1	56.43	112.86	468.00	52,818	0.00	0	760.00	85,774
Cable Trays	TN	1	7.00	14.00	276.90	3,877	0.00	0	50.00	700
Subtotal						150,563		57,156		182,683
Switching, Control and Protective Equip										
Switchgear - 4,160v Metalclad	TN	1	40.00	80.00	128.70	10,296	0.00	0	50.00	4,000
Switchgear - 480v Metalclad	TN	1	18.00	36.00	128.70	4,633	0.00	0	50.00	1,800
Station Grounding System	TN	1	10.68	10.68	276.90	2,957	0.00	0	710.00	7,583
Subtotal						17,886		0		13,383
Total Account 315						211,445		97,724		212,903
FERC Account 353										
Substation Equipment										
Autotransformer	TN	1	60.00	120.00	128.70	15,444	0.00	0	50.00	6,000
Main Power Transformer	TN	1	191.55	383.10	128.70	49,305	0.00	0	50.00	19,155
Transformer Copper	TN	1	76.62	76.62	300.00	22,986	0.00	0	710.00	54,400
Oil Circuit Breakers	TN	5	8.75	87.50	171.60	15,015	0.00	0	50.00	4,375
Air Break and Disconnect Switches	TN	12	1.55	37.20	171.60	6,384	0.00	0	50.00	1,860
Main Power Transformer - Foundation	CY	1	43.13	86.26	51.60	4,451	88.00	7,591	0.00	0
Autotransformer - Foundation	CY	1	38.25	76.50	51.60	3,947	88.00	6,732	0.00	0
Oil Circuit Breakers - Foundation	CY	5	6.00	60.00	51.60	3,096	88.00	5,280	0.00	0
Total Account 353						120,828		19,603		85,790
TOTAL RIVIERA UNITS 3 & 4						7,647,194		2,113,349		1,238,150
TOTAL RIVIERA COMMON, UNITS 3 & 4						8,298,457		4,166,804		1,385,625

RIVIERA DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost Per Item	Disposal Cost per Unit of Measure	Disposal Portion per item	Salvage Value per Unit of Measure	Realizable Salvage Value per Item
RIVIERA UNIT 2										
FERC Account 311										
Condensing and Service Water System										
Intake Cooling Water Pumps	TN	0	2.00	0.00	171.60	0	0.00	0	50.00	0
Intake Structure - Concrete	CY	1	373.59	373.59	51.60	19,277	88.00	32,876	0.00	0
Intake Structure - Steel	TN	1	9.50	4.75	128.70	611	0.00	0	50.00	238
Traveling Water Screens	TN	0	14.00	0.00	128.70	0	0.00	0	50.00	0
Intake & Disch Conduit-60" Concrete Pipe	TN	1	485.66	485.66	197.80	96,064	0.00	0	0.00	0
Concrete	CY	1	279.40	279.40	51.60	14,417	88.00	24,587	0.00	0
Pipe - Cast Iron	TN	1	37.20	37.20	234.00	8,705	0.00	0	50.00	1,860
Pump Foundations	CY	1	25.40	25.40	51.60	1,311	88.00	2,235	0.00	0
Seal Well Concrete Structure	CY	1	53.00	53.00	51.60	2,735	88.00	4,664	0.00	0
Subtotal						143,119		64,362		2,098
Station Structures										
Concrete Mats	CY	1	2,075.90	2,075.90	51.60	107,116	88.00	182,679	0.00	0
Structural Steel	TN	1	129.00	129.00	128.70	16,602	0.00	0	50.00	6,450
Miscellaneous Steel & Handrails	TN	1	50.63	50.63	171.60	8,688	0.00	0	50.00	2,532
Floors - Concrete	CY	1	328.11	328.11	20.64	6,772	88.00	28,874	0.00	0
Concrete Floodwall	CY	1	160.13	80.07	51.60	4,131	88.00	7,046	0.00	0
Misc. Cranes & Hoists	TN	0	2.08	0.00	276.90	0	0.00	0	50.00	0
Elevator	TN	0	24.30	0.00	128.70	0	0.00	0	50.00	0
Subtotal						143,310		218,599		8,982
Total Account 311						286,430		282,961		11,079
FERC Account 312										
Boiler Plant Equipment										
Fuel Oil & Gas Equipment										
Burner Pumps	TN	0	0.80	0.00	276.90	0	0.00	0	50.00	0
Fuel Oil Piping	TN	0	10.28	0.00	171.60	0	0.00	0	50.00	0
Forced Draft Fan Foundations	CY	1	31.63	15.82	51.60	816	88.00	1,392	0.00	0
Forced Draft Fans	TN	0	7.00	0.00	171.60	0	0.00	0	50.00	0
Forced Draft Fan Air Ducts	CY	0	60.00	0.00	51.60	0	88.00	0	0.00	0
Insulation for FD Fan Air Ducts	CY	0	90.00	0.00	51.60	0	6.00	0	0.00	0
Subtotal						816		1,392		0
Boiler Equipment										
Boiler Frame	TN	0	383.00	0.00	128.70	0	0.00	0	50.00	0
Platforms, Grating & Handrails	TN	0	163.80	0.00	171.60	0	0.00	0	50.00	0
Boiler - including:	TN	0	732.05	0.00	128.70	0	0.00	0	50.00	0
Drum, Waterwall, Downcomers & Tubes										
Piping, Valves & Silencers										
Radiant & Convection Superheaters										
Reheater, Economizer & Sootblowers										
Air Preheaters										
Boiler Insulation	CY	0	60.00	0.00	1,250.00	0	100.00	0	0.00	0
Concrete Deck	CY	0	56.00	0.00	51.60	0	88.00	0	0.00	0
Subtotal						0		0		0

RIVIERA DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost Per Item	Disposal Cost per Unit of Measure	Disposal Portion per Item	Salvage Value per Unit of Measure	Realizable Salvage Value per Item
Boiler Plant Auxiliaries										
Feedwater Heater #1	TN	0	5.40	0.00	171.60	0	0.00	0	50.00	0
Feedwater Heater #2	TN	0	4.83	0.00	171.60	0	0.00	0	50.00	0
Feedwater Heater #3	TN	0	4.07	0.00	171.60	0	0.00	0	50.00	0
Feedwater Heater #4	TN	0	4.98	0.00	171.60	0	0.00	0	50.00	0
Feedwater Heater #5	TN	0	7.42	0.00	171.60	0	0.00	0	50.00	0
Condensate Make-up Heater	TN	1	1.02	1.02	171.60	175	0.00	0	50.00	51
Boiler Feed Pumps (including motors)	TN	3	7.65	22.95	171.60	3,938	0.00	0	50.00	1,148
Concrete Pump Foundations	CY	1	45.60	45.60	51.60	2,353	88.00	4,013	0.00	0
Condensate Storage Tank - 62,000 gal	TN	1	16.50	16.50	128.70	2,124	0.00	0	50.00	825
Condensate Storage Tank Foundation	CY	1	5.90	5.90	51.60	304	88.00	519	0.00	0
Heater Drain Pumps	TN	4	0.65	2.60	276.90	720	0.00	0	50.00	130
Cooling Water Heat Exchanger	TN	3	7.35	22.05	171.60	3,784	0.00	0	50.00	1,103
Cooling Water Surge Tank	TN	1	1.79	1.79	171.60	307	0.00	0	50.00	90
Condensate Recovery Tank	TN	1	6.30	6.30	171.60	1,081	0.00	0	50.00	315
Chemical Feed System	TN	1	5.00	5.00	171.60	858	0.00	0	50.00	250
Subtotal						15,644		4,532		3,911
Boiler Plant Piping										
Pipe, Valves and Fittings	TN	0	157.46	0.00	171.60	0	0.00	0	50.00	0
Pipe Insulation	CY	0	170.95	0.00	1,250.00	0	100.00	0	0.00	0
Subtotal						0		0		0
Induced Draft Equipment										
Stacks	CY	0	191.00	0.00	51.60	0	88.00	0	0.00	0
Breeching	CY	0	92.00	0.00	51.60	0	88.00	0	0.00	0
Stack Foundation	CY	1	177.90	177.90	51.60	9,180	88.00	15,655	0.00	0
Soot Collecting Equipment	CY	0	9.10	0.00	51.60	0	88.00	0	0.00	0
Gas Ducts	TN	0	120.00	0.00	171.60	0	0.00	0	50.00	0
Induced Draft Fans	TN	0	12.69	0.00	128.70	0	0.00	0	50.00	0
Fan Foundations	CY	1	43.70	21.85	51.60	1,127	88.00	1,923	0.00	0
Subtotal						10,307		17,578		0
Miscellaneous Steel & Equipment	TN	1	6.01	6.01	276.90	1,664	0.00	0	50.00	301
Total Account 312						28,431		23,502		4,211
FERC Account 314										
Turbo-Generator Units										
Pedestal Concrete	CY	1	711.00	711.00	51.60	36,688	88.00	62,568	0.00	0
Inserts & Anchor Bolts	TN	1	1.95	1.95	276.90	540	0.00	0	50.00	98
Turbo-Generator Unit	TN	1	362.50	362.50	97.50	35,344	0.00	0	50.00	18,125
Turbine Copper	TN	1	30.00	60.00	400.00	24,000	0.00	0	710.00	42,600
Turbine Piping	TN	1	158.10	158.10	171.60	27,130	0.00	0	50.00	7,905
Turbine Insulation	CY	1	377.95	377.95	1,250.00	472,438	100.00	37,795	0.00	0
Subtotal						596,139		100,363		68,728
Condensers and Auxiliaries										

RIVIERA DISMANTLEMENT STUDY

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Condenser Shell	TN	1	197.50	197.50	128.70	25,418	0.00	0	50.00	9,875
Condenser - Aluminum-Brass Tubes	TN	1	64.25	64.25	276.90	17,791	0.00	0	140.00	8,995
Circulating Water Pumps	TN	2	9.75	19.50	171.60	3,346	0.00	0	50.00	975
Butterfly Valves & Piping	TN	4	106.44	425.76	128.70	54,795	0.00	0	50.00	21,288
Condensate Pumps	TN	3	4.25	12.75	171.60	2,188	0.00	0	50.00	638
Concrete	CY	1	11.20	11.20	20.64	231	88.00	986	0.00	0
Steam Jet Air Ejector	TN	1	2.00	2.00	171.60	343	0.00	0	50.00	100
Subtotal						104,113		986		41,871
Miscellaneous Steel & Equipment	TN	1	43.49	43.49	276.90	12,042	0.00	0	50.00	2,175
Total Account 314						712,294		101,349		112,773
FERC Account 315										
Accessory Electrical Equipment										
Foundations & Structures										
Steel Structures & Supports	TN	1	4.50	4.50	171.60	772	0.00	0	50.00	225
Equipment Foundations - Concrete	CY	1	22.70	22.70	51.60	1,171	88.00	1,998	0.00	0
Switchgear Foundations - Concrete	CY	1	8.60	8.60	51.60	444	88.00	757	0.00	0
Manholes and Handholes	CY	1	23.50	23.50	20.64	485	88.00	2,068	0.00	0
Subtotal						2,872		4,822		225
Power and Conversion Equipment										
Aux Power Transformer	TN	1	55.40	55.40	128.70	7,130	0.00	0	50.00	2,770
Station Service Transformers	TN	3	4.00	12.00	171.60	2,059	0.00	0	50.00	600
Lighting Transformers	TN	1	0.60	0.60	276.90	166	0.00	0	50.00	30
Subtotal						9,355		0		3,400
Conduit, Insulators and Conductors										
Concrete - UG Duct	CY	1	279.50	279.50	51.60	14,422	88.00	24,596	0.00	0
Conductors - Generator Leads	TN	1	12.50	12.50	468.00	5,850	0.00	0	710.00	8,875
Power Wiring	TN	1	20.00	20.00	468.00	9,360	0.00	0	760.00	15,200
Control Wiring	TN	1	25.00	25.00	468.00	11,700	0.00	0	760.00	19,000
Cable Trays	TN	1	5.00	5.00	276.90	1,385	0.00	0	38.00	190
Subtotal						42,717		24,596		43,265
Switching, Control and Protective Equipment										
Switchgear - 2,400v Metalclad	TN	1	22.25	22.25	128.70	2,864	0.00	0	50.00	1,113
Switchgear - 480v Metalclad	TN	1	16.00	16.00	128.70	2,317	0.00	0	50.00	900
Air Break and Disconnect Switches	TN	1	0.90	0.90	276.90	249	0.00	0	50.00	45
Lightning and Surge Protection	TN	3	0.25	0.75	276.90	208	0.00	0	50.00	38
Instrument Transformers	TN	6	1.55	9.30	171.60	1,596	0.00	0	50.00	465
Station Grounding System	TN	1	10.68	10.68	276.90	2,957	0.00	0	710.00	7,583
Subtotal						10,190		0		10,143
Total Account 315						65,135		29,418		57,033
FERC Account 353										
Substation Equipment										

RIVIERA DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost Per Item	Disposal Cost per Unit of Measure	Disposal Portion per Item	Salvage Value per Unit of Measure	Realizable Salvage Value per Item
Main Power Transformer	TN	1	83.95	83.95	128.70	10,804	0.00	0	50.00	4,198
Oil Circuit Breakers	TN	5	8.25	41.25	171.60	7,079	0.00	0	50.00	2,063
Air Break and Disconnect Switches	TN	21	0.90	18.90	276.90	5,233	0.00	0	50.00	945
Main Power Transformer - Foundation	CY	1	56.50	56.50	51.60	2,915	88.00	4,972	0.00	0
Oil Circuit Breakers - Foundation	CY	5	22.80	114.00	51.60	5,882	88.00	10,032	0.00	0
Total Account 353						31,914		15,004		7,205
TOTAL RIVIERA UNIT 2						1,124,204		452,234		192,300

Sanford Plant

The Sanford Plant is located on a 1,700-acre site in Volusia County, approximately five miles west of Sanford, Florida. The site has three generating units, No. 3, 4 and 5. The original design of Unit 3 was for oil or gas fired operation, and currently operates on natural gas with heavy #6 oil as alternative fuel. Units 4 and 5 are equipped for oil or gas-fired operation, and both units currently operate on heavy #6 oil only. The three units have a combined maximum generator nameplate rating of 1,028 megawatts. The commercial operating dates for Units No. 3, 4 and 5 are 1959, 1972 and 1973 respectively.

The steam generator for Unit No. 3 is a Babcock & Wilcox outdoor, integral furnace, bent tube, single drum, waterwall, radiant, reheat type. Unit No. 3 has essentially one complete Westinghouse Electric Corporation condensing steam turbine coupled to a hydrogen-cooled electric generator.

The steam generators for Units No. 4 and 5 are both Foster Wheeler Corporation outdoor, single drum, radiant, reheat, natural circulation type with a water-cooled furnace complete Westinghouse Electric Corporation, condensing steam turbine coupled to a hydrogen-cooled electric generator. Approximately 1,090 acres of the site is utilized as a cooling water reservoir for Units No. 4 and 5. The reservoir is connected to the units by two canals, (intake and discharge), approximately 4,000 feet in length.

The Sanford Power Plant site is supplied with fuel oil from leased port facilities located at Jacksonville, Florida. The fuel is barged, via the St. Johns River to the plant site and unloaded into holding tanks on site. The fuel gas for Unit 3 is transported via the Florida Gas Transmission Pipeline System.

Florida Power & Light Company last requested and received approval for dismantlement accruals for the Fort Myers plant in docket No. 941343-EI, Order No. PSC-95-1532-FOF-EI, issued on December 12, 1995. The current accruals became effective as of January 1, 1995.

SUMMARY OF DISMANTLEMENT COSTS

FERC Account	Description	Removal Cost (A)	Disposal Cost (B)	Salvage Value (C)	Total (D)=(A + B - C)
Sanford Common					
<u>Production Plant</u>					
311	Structures and Improvements	710,765	530,425	95,027	1,146,164
312	Boiler Plant Equipment	0	0	0	0
314	Turbogenerator Units	0	0	0	0
315	Accessory Electrical Equipment	0	0	0	0
316	Miscellaneous Equipment	1,170	630	228	1,573
	Subtotal	711,936	531,055	95,254	1,147,737
<u>Transmission Plant</u>					
353	Substation Equipment	376,210	55,035	283,748	147,497
<u>Other Site Costs:</u>					
	Site Management Expense	572,832			572,832
	Intake & Discharge Backfill	100,516			100,516
	Grading & Seeding	1,834,442			1,834,442
	Subtotal	2,507,790	0	0	2,507,790
	Total	3,595,936	586,090	379,002	3,803,024
	Contingency - 16%	575,350	93,774		669,124
	Total Sanford Common	4,171,286	679,864	379,002	4,472,148
	Unusable M&S Inventory	915,494		137,324	778,170
		5,086,780	679,864	516,326	5,250,318
Sanford Units 1 & 2					
311	Structures and Improvements	102,455	119,069	13,642	207,882
312	Boiler Plant Equipment	34,816	32,300	1,800	65,316
314	Turbogenerator Units	35,629	60,732	0	96,361
315	Accessory Electrical Equipment	0	0	0	0
316	Miscellaneous Equipment	0	0	0	0
	Subtotal	172,901	212,101	15,442	369,560
	Contingency - 16%	27,664	33,936		61,600
	Total Sanford Units 1 & 2	200,565	246,037	15,442	431,160
Sanford Unit 3					
311	Structures and Improvements	562,558	702,351	55,878	1,209,031
312	Boiler Plant Equipment	2,132,380	357,650	216,029	2,274,002
314	Turbogenerator Units	539,261	127,088	104,825	561,523
315	Accessory Electrical Equipment	123,461	19,080	156,639	(14,098)
316	Miscellaneous Equipment	1,989	990	400	2,579
	Subtotal	3,359,649	1,207,158	533,771	4,033,036
	Contingency - 16%	537,544	193,145		730,689
	Total Sanford Unit 3	3,897,192	1,400,303	533,771	4,763,725
Sanford Units 4 & 5					
311	Structures and Improvements	1,316,020	1,455,128	153,937	2,617,211
312	Boiler Plant Equipment	7,802,576	1,281,133	879,576	8,204,133
314	Turbogenerator Units	2,553,754	674,980	293,798	2,934,936
315	Accessory Electrical Equipment	933,010	182,880	326,057	789,833
316	Miscellaneous Equipment	0	0	0	0
	Subtotal	12,605,359	3,594,122	1,653,368	14,546,112
	Contingency - 16%	2,016,857	575,059		2,591,917
	Total Sanford Units 4 & 5	14,622,217	4,169,181	1,653,368	17,138,029
	Total Dismantlement Costs	23,806,753	6,495,386	2,718,907	27,583,232

**SANFORD
DISMANTLEMENT COST FOR INFLATION PROJECTION**

Description	Labor (A)	Material & Equipment (B)	Burial (C)	Salvage (D)	Total (A) + (B) + (C) - (D)
Sanford Common	2,502,771	2,584,008	679,864	516,326	5,250,318
Sanford Unit 3	2,338,315	1,558,877	1,400,303	533,771	4,763,725
Sanford Units 4 & 5	8,773,330	5,848,887	4,169,181	1,653,368	17,138,029
Total	13,614,417	9,991,772	6,249,349	2,703,465	27,152,072
Sanford Units 1 & 2 [not incl in accrual]	120,339	80,226	246,037	15,442	431,160
Totals [incl. Units 1 & 2]	13,734,756	10,071,998	6,495,386	2,718,907	27,583,232
Labor is 60% of Removal Cost from Summary of Dismantlement Costs. Material & Equipment is 40% of Removal Cost from Summary of Dismantlement Costs. Burial is 100% of Disposal Cost from Summary of Dismantlement Costs. Salvage is 100% of Salvage from Summary of Dismantlement Costs.					

SANFORD DISMANTLEMENT ASSUMPTIONS

FPL will provide management personnel for the dismantlement effort.

FPL will prepare the request for proposal package and solicit bids for the decommissioning effort.

FPL will provide site security during the dismantlement.

FPL will hire a demolition contractor to perform the actual dismantling work. This contractor will have the salvage rights to all plant equipment and structural material.

The land will be made available for future use.

All dismantling work will be done in accordance with OSHA regulations.

The fuel oil storage tanks will be cleaned and their contents disposed of according to the requirements of current regulations.

The following items will be removed:

- a. All structures, equipment, and concrete pads, pedestals, foundations, etc.;
- b. All underground gas, oil, sewer and water piping and electrical conduits (underground concrete piping to be collapsed);
- c. All hazardous and contaminated materials, e.g., acid filled lead batteries, oil tank residue.

Discussions with FPL's Power Generation Services Department (PGS) indicate that the return of the site to a green field condition entails removal of all structures above the wood pilings and steel-encased concrete pilings. The removal of the pilings would be unfeasible and, therefore, will remain in place.

The turbine pedestals and chimney will be control-blasted.

Only the first 100 feet of each 2,330 foot run of 90 inch subaqueous concrete discharge piping will be collapsed and backfilled, because collapsing and backfilling the remainder would disturb the underwater environment of Lake Worth.

Scrap will be unprepared, i.e., cut only to the extent required to load the pieces on scrap dealers' trailers. Trucking costs for removal are paid by the scrap dealer and are reflected in the salvage value paid.

The estimate does not reflect land value or its resale.

The productivity factors employed are assumed valid for purposes of this study.

A contingency of 16% has been applied to the total removal and disposal costs. This contingency percentage covers costs associated with delays occurring after dismantlement begins, due to such causes as equipment failure and weather delays.

The costs of such overhead items as project management, site security, etc., have been estimated by FPL's PGS Department. These costs are listed on the cost summary pages for each site's dismantlement study.

All materials and equipment are assumed to be either fully salvageable or to be disposed of completely. The availability of powerful cutting shears makes possible the cutting of even the heaviest steel to a size that permits salvage as scrap. Any unusable materials and supplies inventory will be sold as scrap. Estimated balances of such inventory (with an assumption of a 15% salvage value) have been included on the cost summary pages for each site's dismantlement study.

A 30% swell factor is used to compute the disposal cost per cubic yard of concrete. One cubic yard of concrete becomes 1.3 cubic yards of concrete rubble after demolition.

The switchyard and ancillary equipment (FERC account 353) will remain in place with the exception of the main power transformers, oil circuit breakers, superstructures, and foundations associated with the tie-in of plant generated power in the switchyard.

The turbine pedestals and chimneys will be control-blasted.

Transformer and circuit breaker insulating oils are assumed not to contain PCB's. Therefore, the transformers and oil circuit breakers will be salvageable.

It is assumed that dismantlement activity at Sanford plant will begin five years after end of service. The end of service dates used for this assumption conform to the economic recovery period ending dates used in the Sanford plant depreciation study filed as of year end 1997.

It is assumed that the cooling reservoir at the Sanford site will not be back-filled. The State of Florida has expressed an interest in using them for water management purposes. Also, some communities have indicated interest in their potential use as a source of water.

Asbestos abatement activity is currently driven by maintenance considerations and it is not appropriate to assume that significant quantities will be abated by the units' end of service dates. Though some abatement has occurred, substantial amounts of asbestos remain and can be expected to require abatement at final dismantlement. FPL's PGS Department has estimated the cost of asbestos removal at \$1,250 per yard and disposal at \$100 per cubic yard. This rate is supported by recent FPL experience.

DISMANTLING ACTIVITIES: OIL & GAS & OTHER PRODUCTION PLANTS

- Remove loose equipment, furniture, and spare parts.
- Drain liquids, drum-up, and dispose of drums.
- Remove hazardous materials; i.e., leads (alkaline), acids, solvents, lubricants, oils, chemicals, and gasses.
- Strip all insulation and covering, package and remove to acceptable landfill.
- Collapse circulating water lines and backfill trenches.
- Remove main steam, hot and cold piping, downcomers, valves, and supports, pumps, motors, generator auxiliary equipment, feedwater heaters, soot blowers, and condensers.
- Remove intake and discharge structures, equipment pumps, piping and valves.
- Remove systems that must be completed prior to the start of the boiler removal including lube oil pumps, all piping, instrument and electrical systems.
- Remove forced drafts and induced draft ductwork, air heaters and fans.
- Remove hoppers, burners, upper and lower headers, manways, and waterwalls.
- Remove heavy steel structures and above ground steel – precut key members, lower and cut at ground level.
- Disassemble crane, boiler feed pumps, and turbine generator.
- Separate scrap metals, and remove to scrap yard.
- Remove and dispose of miscellaneous rubble.
- Remove turbine pedestal, foundation, and heavy concrete structures and building, stack foundations, equipment foundations, substructures, support buildings and stacks. Remove to landfill.
- Cut off piles and remove pile caps. Remove concrete encased duct banks and underground piping.
- Remove septic tank and backfill.
- Remove underground storage tanks.
- Test and remove contaminated soil/bases – all areas.
- Install environmental monitoring equipment such as wells.
- Remove or improve remaining site facilities such as buildings, fences, parking areas in accordance with local code and regulations.
- Install/modify existing site storm water runoff system.

DISMANTLING ACTIVITIES: OIL & GAS AND OTHER PRODUCTION PLANTS

(Continued)

- Remove switchyard electrical equipment, structures, and foundations. Modify services to remaining occupied structures as required.
- Remove gas supply metering site, valve stations, underground distribution system.
- Backfill, site grading, seeding, mulching.
- Remove solid and liquid wastes from waste treatment processing areas – landfilled material, precipitated material in ponds and tanks, contaminated resins and reactants.
- Remove marine facilities such as fuel unloading docks, equipment, bridges, and dams.
- Cut and remove fuel oil tanks, piping, valves, and supports.
- Remove top soil/gravel, backfill, and remove barrier wall foundation.

DEVELOPMENT OF COST FACTORS

Cost factors have been developed to compute the net salvage value of the demolition of the Sanford Plant. The net salvage value of the demolition is the net of: the removal and disposal cost and the salvage value of equipment and steel not disposed of. These factors provide a unit cost or value for removal, disposal and salvage of a given unit of measure of the component materials of which a power plant is constructed. The assumption is that the cost or value per unit of a given component can be multiplied by the quantity of that component in the plant to calculate a total cost or value for removal, disposal, or salvage of that component.

REMOVAL COST FACTORS

The removal cost factors developed for this study have two elements: a burdened labor rate and productivity factor. The burdened labor rate multiplied by the productivity factor yields the removal cost factor. The labor rates used in this study were developed by FPL's Power Generation Services Department (PGS). The crew rate per man-hour is for a crew consisting of six journeymen laborers, one laborer foreman and one heavy equipment operator - a typical crew for demolition work. The rate includes the cost per man-hour of a Trojan 3500Z front end loader with a four yard bucket, and an American 9310, two hundred twenty-five ton crane with a two hundred foot boom. The productivity factors employed, e.g., the number of man-hours required to remove a given unit of measure of concrete, were developed by an engineering consulting firm. These factors are assumed valid for purposes of this study.

Labor Rate

Labor rates are based on Means Union wages for 1998. The rates are adjusted to reflect non-union crews and factored to the geographical location of the site. Wage rates are based on a 40 hour work week.

Labor	\$23.21	X	6	=	\$139.26
Foreman	\$29.82	X	1	=	\$29.82
Heavy Equipment Operator	\$27.80	X	1	=	\$27.80
Total Cost per hour of 8 man crew					<u>\$196.88</u>

Cost per man hour \$196.88 / 8 = \$24.61

Equipment Rate

The equipment rate is based on the following equipment:

Excavator	14,968.30
Front End Loader	5,092.50
Cutting Equipment	200.00
Total per month	<u>\$20,261</u>

\$20,261 / 176 hours per month = 115.12

Cost per man hour	\$115.12 / 8 =	\$14.39
Plus: amount for small tools		0.80
Total Cost per man hour		<u>\$15.19</u>

SANFORD DISMANTLEMENT STUDY

Equipment & Labor Summary

Labor	\$24.61
Equipment	15.19
Total	<u>\$39.80</u>
 Rounded	 <u>\$40.00</u>
 For Concrete demolition add \$4.00 per hour additional equipment charge.	 <u>\$44.00</u>

The Removal Cost Factor is the product of the productivity factor for removal of a particular component multiplied by the total burdened hourly labor rate.

<u>Components</u>	<u>Hourly Rate</u>	<u>Productivity Factor</u>	<u>Removal Factor</u>
Extra Heavy Steel (1)	\$40.00	2.50 MH / Ton	\$100.00 / Ton
Heavy Steel (2)	\$40.00	3.30 MH / Ton	\$132.00 / Ton
General Steel	\$40.00	4.40 MH / Ton	\$176.00 / Ton
Light Steel	\$40.00	7.10 MH / Ton	\$284.00 / Ton
Concrete	\$44.00	0.48 MH / CY	\$21.12 / CY
Reinforced Concrete	\$44.00	1.20 MH / CY	\$52.80 / CY
Copper-Elect. Cable & Generator Leads &	\$40.00	12.00 MH / Ton	\$480.00 / Ton
Copper - Generator			\$400.00 / Ton
Copper - Transformer			\$300.00 / Ton
General Insulation	\$40.00	1.00 MH / CY	\$40.00 / CY
Inground Pipe-Metal(3)	\$40.00	6.00 MH / Ton	\$240.00 / Ton
Concrete Pipe (collapsed)	\$44.00	4.60 MH / Ton	\$202.40 / Ton
Asbestos Insulation			\$1,250.00 / CY

- (1) Includes turbine generator.
- (2) Includes parts of the steam generator, pipe larger than 8 inches.
- (3) Includes cost to backfill the trenches.

DISPOSAL COST FACTORS

Three cost factors were developed to compute the disposal costs of non-hazardous wastes at the Seminole County Landfill. Concrete and calcium silicated insulation are non-hazardous wastes. The tipping fees were obtained from the landfill. The dumpster charges (\$165 per haul for both 20 and 40 cubic yard dumpsters) were provided by Waste Management Inc., of Orlando.

Cost factors were also developed to compute the cost of disposal of hazardous waste, e.g., soil remediation around the oil tanks. The cost factor for cleaning the oil tanks is included in this group.

SANFORD DISMANTLEMENT STUDY

Concrete

One cubic yard of concrete in place weighs 3,950 pounds. One cubic yard becomes 1.3 cubic yards after demolition. Each load will contain 15.38 cubic yards (20 cu. yds./1.3) of in place concrete. 15.38 cubic yards weighs 61,000 pounds or 30.50 tons.

Truck Cost	\$165.00 /haul		1 haul	=	165.00
Tipping Fees	\$36.00 / ton	X	30.5 tons	=	1,098.00
Total Cost per round Trip					<u>1,263.00</u>

Cost per Cubic Yard	\$1,263.00 / 15.38 cubic yards =				\$82.12
Plus 10% contractor profit					8.21
Total Cost per Cubic Yard					<u>\$90.33</u>

Rounded Cost per Cubic Yard					<u>\$90.00</u>
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Insulation - Calcium Silicate (Non-Hazardous)

A trailer with a 40 cubic yard capacity is used for insulation because of its lighter weight. For purposes of this computation the dumpster is assumed to be 90% full (although the tipping fee is based on the assumption of 100% full truck - i.e., the weight to volume conversion uses 40 cubic yards - the full volume of the dumpster). A cubic yard of calcium silicate insulation weighs 121.5 pounds or .060750 tons. 40 cubic yards times .060750 tons/cubic yard = 2.43 tons. (The dumpster charge is the same for 20 and 40 CY dumpsters.)

Truck Cost	\$165.00 / haul	X	1 haul	=	165.00
Tipping Fees	\$36.00 / ton	X	2.43 tons	=	87.48
Total Cost per round Trip					<u>252.48</u>

Cost per Cubic Yard	\$252.48 / 36 cubic yards =				\$7.01
Plus 10% contractor profit					0.70
Total Cost per Cubic Yard					<u>\$7.71</u>

Rounded Cost per Cubic Yard					<u>\$8.00</u>
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Insulation - Asbestos

\$100.00

SANFORD DISMANTLEMENT STUDY

SALVAGE VALUE FACTORS

The salvage value factors, presented in dollars per ton, were provided by FPL's Investment Recovery Department. The list covers all salvageable materials recovered from FPL sites.

Iron & Steel	\$50 / ton
Stainless Steel	\$300 / ton
Aluminum (Sheet Metal)	\$540 / ton
Wire & Cable:	
- Insulated Copper	\$760 / ton
- Insulated Aluminum	\$600 / ton
Copper	\$710 / ton
Nickel Alloys	
- 70/30 Cupro-Nickel	\$1,490 / ton
- 80/20 Cupro-Nickel	\$1,250 / ton
- Monel	\$2,340 / ton
Admiralty Brass	\$540 / ton
Aluminum Brass	\$140 / ton
Titanium	\$1,320 / ton

OTHER SITE COSTS

Site Management Expenses

Site management expenses refer to FPL's management costs and contractors' expenses associated with the dismantlement project. The cost factors provided by FPL's Power Generation Services Department (PGS) are: FPL expenses of \$13,901 per month, both office and site, and contractor's expenses of \$17,923 per month for site indirect costs. These expenses are to be incurred over the 18 month dismantlement period for the Sanford Plant. FPL's management costs include administration, engineering, permit costs and various other costs. Contractors' expenses include field management, supervision, security, etc..

Site Management Expenses per month	\$31,824
Number of months	18
Total Site Management Expenses	<u>\$572,832</u>

Intake & Discharge Backfill

FPL's PGS Department developed this cost factor on the basis of a typical such structure for FPL's production plants. The assumption is that a volume of 1,600 cubic yards for the intake and 1,120 cubic yards for the discharge will need to be filled. The cost for the intake is \$28,021 the cost for the discharge is \$22,237. Sanford has 2 Intakes and 2 Discharges:

	<u>Cost/ Struct</u>	<u>Quantity</u>	<u>Totals</u>
Intake	\$28,021	2	\$56,042
Discharge	\$22,237	2	\$44,474
			<u>\$100,516</u>

SANFORD DISMANTLEMENT STUDY

Grading and Seeding

This cost refers to the restoration of the dismantled area to a green field area. The land is filled with sand, spread with topsoil and then seeded. The cost factor provided by PGS is \$40,229 per acre. The acreage was determined for each site by reviewing engineering drawings to determine the areas requiring this effort. Assumptions underlying this cost factor include 2,000 cubic yards per acre to be backfilled and 968 cubic yards per acre of topsoil to be spread and seeded.

Sanford Acreage to be graded and seeded
Cost Factor
Total Grading and Seeding Expense

45.60
\$40,229
\$1,834,442

SANFORD DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
<u>SANFORD COMMON</u>										
<u>FERC Account 311</u>										
<u>Improvements to Site</u>										
Access Roads and Parking Areas	CY	1	3,140.00	3,140.00	21.12	66,317	90.00	282,600	0.00	0
Concrete Walkways	CY	1	81.07	81.07	21.12	1,712	90.00	7,296	0.00	0
Station Sign - Concrete	CY	1	11.00	11.00	52.80	581	90.00	990	0.00	0
Station Sign - Concrete Foundation	CY	1	7.11	7.11	52.80	375	90.00	640	0.00	0
Rail System Complete - (3520 ties, 5280 LF of rail)	TN	1	352.00	352.00	284.00	99,968	0.00	0	50.00	17,600
Yard Lighting Complete	CY	1	55.00	55.00	52.80	2,904	90.00	4,950	0.00	0
Subtotal						171,857		296,476		17,600
<u>Domestic Water Distribution System and Water Treatment</u>										
Service Water Booster Pump	TN	1	3.00	3.00	284.00	852	0.00	0	50.00	150
Yard Fire Protection - System Complete	TN	1	32.66	32.66	284.00	9,275	0.00	0	50.00	1,633
Lawn Sprinkler System - Incl. Pumps w/ Motors, Complf.	TN	1	5.00	5.00	284.00	1,420	0.00	0	50.00	250
Acid Mixing Pumps and Piping system-Water Treatment	TN	1	85.00	85.00	284.00	24,140	0.00	0	50.00	4,250
Cooling Resv. Make-up Pumps	TN	2	1.00	2.00	284.00	568	0.00	0	50.00	100
Cooling Resv. Make-up Piping	TN	1	66.68	66.68	284.00	18,937	0.00	0	50.00	3,334
Well Filed Pumps	TN	1	2.00	2.00	284.00	568	0.00	0	50.00	100
Piping from Well Field to raw water Storage	TN	1	527.60	527.60	284.00	149,838	0.00	0	50.00	26,380
Storm Drain Piping complete	TN	1	245.18	245.18	202.40	49,624	n/a	0	0.00	0
Ground Water Storage Tank(150,000 gal)	TN	1	202.50	202.50	176.00	35,640	0.00	0	50.00	10,125
Elevated Water Storage Tank - 80,000 Gallons	TN	1	108.00	108.00	176.00	19,008	0.00	0	50.00	5,400
Elevated Water Storage Tank - Foundation-Concrete	CY	1	40.00	40.00	21.12	845	90.00	3,600	0.00	0
Treated Water Transfer Pump	TN	1	1.00	1.00	284.00	284	0.00	0	50.00	50
Elevated Water Storage Tank(100,000 gal)	TN	1	135.09	135.09	176.00	23,776	0.00	0	50.00	6,755
Fire Protection - Raw Water Fire Pump	TN	1	1.00	1.00	284.00	284	0.00	0	50.00	50
Fire Protection - F/Pump concrete slab	CY	1	6.50	6.50	52.80	343	90.00	585	0.00	0
Subtotal						335,403		4,185		58,577
<u>Fuel Oil System/Area</u>										
Unloading Dock - Reinforced Concrete	CY	1	580.00	580.00	52.80	30,624	90.00	52,200	0.00	0
Unloading Dock - Support Steel	TN	1	15.00	15.00	176.00	2,640	0.00	0	50.00	750
Unloading slip - canal boom motor and drive	TN	1	1.00	1.00	176.00	176	0.00	0	50.00	50
Unloading slip - canal boom motor foundation	CY	1	2.00	2.00	52.80	106	90.00	180	0.00	0
Fuel Oil Piping - at dock area	TN	1	6.00	6.00	176.00	1,056	0.00	0	50.00	300
Oil Strainers/filters - at dock area	TN	4	2.00	8.00	176.00	1,408	0.00	0	50.00	400
Fuel Oil Unloading Pumps and motors	TN	2	30.00	60.00	176.00	10,560	0.00	0	50.00	3,000
Subtotal						46,570		52,380		4,500
<u>Station Structures</u>										
Service Building - Subst - R/Concrete(145x36)(8")	CY	1	384.00	384.00	52.80	20,275	90.00	34,560	0.00	0
Service Building - wing strct - (37x25x10)	CY	1	4.24	4.24	52.80	224	90.00	382	0.00	0
Service Building - wing strct - (13x13x10)	CY	1	13.06	13.06	52.80	690	90.00	1,175	0.00	0
Service Building - Conc blk and superstructure concr	CY	1	452.11	452.11	21.12	9,549	90.00	40,690	0.00	0
Old Station Residence Buildings	CY	1	111.17	111.17	21.12	2,348	90.00	10,005	0.00	0
Paint & Lube Oil Storage Bldng - Concrete	CY	1	116.91	116.91	21.12	2,469	90.00	10,522	0.00	0
Results Building - R/Concrete Foundn	CY	1	17.50	17.50	52.80	924	90.00	1,575	0.00	0
Results Building - concrete block walls	CY	1	7.57	7.57	21.12	160	90.00	681	0.00	0

SANFORD DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Spare Parts Warehouse - Structural Steel	TN	1	67.00	67.00	284.00	19,028	0.00	0	50.00	3,350
Spare Parts Warehouse - Foundation - Concrete	CY	1	83.33	83.33	52.80	4,400	90.00	7,500	0.00	0
Chemical Storage Building - Concrete Roof	CY	1	105.83	105.83	52.80	5,588	90.00	9,525	0.00	0
Hydrogen Storage Building(18x9)	CY	1	5.69	5.69	21.12	120	90.00	512	0.00	0
Bulk Storage Bld - concrete	CY	1	360.50	360.50	52.80	19,034	90.00	32,445	0.00	0
Bulk Storage Bld - steel	TN	1	40.00	40.00	284.00	11,360	0.00	0	50.00	2,000
Records Storage Building - concrete	CY	1	15.72	15.72	21.12	332	90.00	1,415	0.00	0
Electrical Storage Building - concrete	CY	1	41.44	41.44	21.12	875	90.00	3,730	0.00	0
Insulation Storage Building - concrete	CY	1	20.80	20.80	21.12	439	90.00	1,872	0.00	0
Training Building - concrete	CY	1	114.87	114.87	21.12	2,426	90.00	10,338	0.00	0
Electrical Motor Repair Building - butler	TN	1	60.00	60.00	284.00	17,040	0.00	0	50.00	3,000
Electrical Motor Repair shop - steel(incl crane)	TN	1	30.00	30.00	284.00	8,520	0.00	0	50.00	1,500
Instrument & Control Building - butler	TN	1	42.00	42.00	284.00	11,928	0.00	0	50.00	2,100
Fabrication Building - butler	TN	1	44.00	44.00	284.00	12,496	0.00	0	50.00	2,200
Lab Building - Concrete Block Walls(51x33)	CY	1	17.69	17.69	21.12	374	90.00	1,592	0.00	0
Lab Building - Concrete Foundation(51x33x6)	CY	1	93.50	93.50	52.80	4,937	90.00	8,415	0.00	0
Subtotal						155,535		176,934		14,150
Sanford Boathouse Facility										
Structure - Steel - Boathouse	TN	1	4.00	4.00	284.00	1,136	0.00	0	50.00	200
Foundation and Seawall - concrete- boathouse	CY	1	5.00	5.00	52.80	264	90.00	450	0.00	0
Subtotal						1,400		450		200
Total Account 311						710,765		530,425		95,027
FERC Account 316										
Miscellaneous Power Plant Equipment										
Service Air Compressor	TN	1	4.55	4.55	176.00	801	0.00	0	50.00	228
Serv. Air Compressor - Concrete Foundation	CY	1	7.00	7.00	52.80	370	90.00	630	0.00	0
Total Account 316						1,170		630		228
TOTAL SANFORD COMMON						711,936		531,055		95,254
SANFORD UNITS 1 & 2										
FERC Account 311										
Fuel Oil System/Area										
Fuel Oil Storage Tank Cleaning- 55,246 BBLs	BBLs	1	55,246.00	55,246.00	0.00	0	n/a	59,795	0.00	0
Fuel Oil Storage Tank - 55,246 BBLs	TN	1	184.52	184.52	0.00	25,000	n/a	0	50.00	9,226
Fuel Oil Tank - Sand Base	CY	1	22.50	22.50	0.00	0	n/a	29,813	0.00	0
Fuel Oil Suction Heaters(in tank)	TN	2	2.00	4.00	176.00	704	0.00	0	50.00	200
Fuel Oil - Pump Transf Pit & Trenches - R/I Concrete	CY	1	30.00	30.00	52.80	1,584	90.00	2,700	0.00	0
Fuel Oil - Transfer Pit Sump Pumps	TN	2	1.00	2.00	176.00	352	0.00	0	50.00	100
Fuel Oil Pipe - Reinforced Concrete Supports	CY	1	15.00	15.00	52.80	792	90.00	1,350	0.00	0
Subtotal						28,432		93,658		9,526
Station Structures										
Station Structure - Concrete Foundation	CY	1	201.00	201.00	52.80	10,613	90.00	18,090	0.00	0
Station Structure - Structural Steel	TN	1	78.40	78.40	132.00	10,349	0.00	0	50.00	3,920
Station Structure - Concrete floors	CY	1	36.90	36.90	52.80	1,948	90.00	3,321	0.00	0

SANFORD DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Station Structure	CY	1	40.00	40.00	1,250.00	50,000	100.00	4,000	0.00	0
Station Structure - Miscellaneous	TN	1	3.92	3.92	284.00	1,113	0.00	0	50.00	196
Subtotal						74,023		25,411		4,116
Total Account 311						102,455		119,069		13,642
FERC Account 312										
Boiler Plant Equipment										
Fuel Oil & Gas Equipment										
Fuel Oil Pumps - at tanks	TN	4	7.00	28.00	176.00	4,928	0.00	0	50.00	1,400
Fuel Oil Heaters - in tanks	TN	4	2.00	8.00	176.00	1,408	0.00	0	50.00	400
Fuel Oil Piping Insulation	CY	1	8.00	8.00	1,250.00	10,000	100.00	800	0.00	0
Subtotal						16,336		800		1,800
Forced and Induced Draft Equipment										
Boiler Foundation	CY	1	350.00	350.00	52.80	18,480	90.00	31,500	0.00	0
Subtotal						18,480		31,500		0
Total Account 312						34,816		32,300		1,800
FERC Account 314										
Turbo-Generator Units										
Pedestal - Reinforced Concrete	CY	2	311.30	622.60	52.80	32,873	90.00	56,034	0.00	0
Circulating Water Pumps - Foundation	CY	2	26.10	52.20	52.80	2,756	90.00	4,698	0.00	0
Total Account 314						35,629		60,732		0
TOTAL SANFORD UNITS 1 & 2						172,901		212,101		15,442
SANFORD UNIT 3										
FERC Account 311										
Site Sewer System										
Storm Sewers and Drains - Concrete(8" - 48")	CY	1	54.31	54.31	202.40	10,992	90.00	4,888	0.00	0
Floor Drains,Sump Pumps & Oily Sep. - 6" CI Pipe	TN	1	31.00	31.00	284.00	8,804	0.00	0	50.00	1,550
Sanitary Sewer Concrete	CY	1	96.78	96.78	202.40	19,588	90.00	8,710	0.00	0
Oil Separator	CY	1	12.63	12.63	52.80	667	90.00	1,137	0.00	0
Subtotal						40,051		14,735		1,550
Fuel - Oil/Gas System/Area										
Fuel Oil Storage Tank - 104,641 BBLS	TN	1	349.50	349.50	0.00	25,000	0.00	0	50.00	17,475
Fuel Oil Tank - Cleaning(104,641 BBLS)	BBLS	1	104,641.00	104,641.00	0.00	0	n/a	77,777	0.00	0
Fuel Oil Storage Tank - Sand Base	CY	1	134.00	134.00	0.00	0	0.00	38,780	0.00	0
Fuel Oil - Pump Trnsfr Pit & Trnch - Reinforced Conc	CY	1	59.50	59.50	52.80	3,142	90.00	5,355	0.00	0
Fuel Oil - Transfer Pit Sump Pumps	TN	2	4.90	9.80	176.00	1,725	0.00	0	50.00	490
Fuel Oil Suction Heaters	TN	2	10.75	21.50	176.00	3,784	0.00	0	50.00	1,075
Fuel Oil Supports over canal	CY	1	106.25	106.25	52.80	5,610	90.00	9,563	0.00	0
Fuel Oil Piping - Steel (6" - 18")	TN	1	134.51	134.51	176.00	23,674	0.00	0	50.00	6,726
Gas Piping - main line to main valve	TN	1	27.30	27.30	176.00	4,805	0.00	0	50.00	1,365
Subtotal						67,739		131,475		27,131

SANFORD DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Service Water and Raw Water Systems										
Water Treatment - Area Slab - Concrete	CY	1	105.00	105.00	52.80	5,544	90.00	9,450	0.00	0
Fire Protection Piping - CI 2.5" to 8"	TN	1	46.25	46.25	284.00	13,135	0.00	0	50.00	2,313
Raw Water Storage Tank - 50,000 gal.	TN	1	17.49	17.49	176.00	3,078	0.00	0	50.00	875
Raw Water Pump and Motor	TN	1	5.00	5.00	284.00	1,420	0.00	0	50.00	250
Raw Water Storage Tank - Foundation	CY	1	8.00	8.00	52.80	422	90.00	720	0.00	0
Fire Protection - Concrete	CY	1	6.00	6.00	52.80	317	90.00	540	0.00	0
Service Water - Cast Iron Piping - 4" to 6"	TN	1	22.45	22.45	284.00	6,376	0.00	0	50.00	1,123
Subtotal						30,292		10,710		4,560
Intake System										
Intake Structure - Reinforced Concrete	CY	1	731.00	731.00	52.80	38,597	90.00	65,790	0.00	0
Intake Structure - Structural Steel(incl. crane)	TN	1	21.00	21.00	132.00	2,772	0.00	0	50.00	1,050
Intake Structure - Wingwall Cap & Crane Rail Pads	CY	1	31.11	31.11	52.80	1,643	90.00	2,800	0.00	0
Intake Structure - Traveling Water Screens	TN	2	11.40	22.80	176.00	4,013	0.00	0	50.00	1,140
Intake Structure - Screen Wash Pumps and motors	TN	2	3.00	6.00	176.00	1,056	0.00	0	50.00	300
Intake Structure - Concrete Stop Logs	CY	1	11.50	11.50	52.80	607	90.00	1,035	0.00	0
Intake Cooling Water Pump Motors	TN	2	3.00	6.00	176.00	1,056	0.00	0	50.00	300
Intake Structure - Hoists/Crane	TN	1	2.00	2.00	176.00	352	0.00	0	50.00	100
Intake Conduit - Reinforced Concrete Pipe,54"(350 ft)	CY	1	186.90	186.90	202.40	37,829	90.00	16,821	0.00	0
Intake Transition Blocks - Concrete	CY	1	181.65	181.65	52.80	9,591	90.00	16,349	0.00	0
Intake Screen Refuse Line - Cast Iron Pipe	TN	1	2.00	2.00	284.00	568	0.00	0	50.00	100
Subtotal						98,083		102,794		2,950
Discharge System										
Discharge Conduit - 42" Reinforced Concrete Pipe	CY	1	85.75	85.75	202.40	17,356	0.00	0	0.00	0
Discharge Transition and Thrust Blocks	CY	1	131.00	131.00	52.80	6,917	90.00	11,790	0.00	0
Discharge Structure - Reinforced Concrete	CY	1	198.65	198.65	52.80	10,489	90.00	17,879	0.00	0
Discharge Conduit - 54" f/ Unit 4 - anticipated(300ft)	CY	1	160.20	160.20	202.40	32,424	0.00	0	0.00	0
Discharge Structure - Concrete Stop Logs	CY	1	11.50	11.50	52.80	607	90.00	1,035	0.00	0
Subtotal						67,793		30,704		0
Station Structures										
Substructure concrete footings, piers, beams, Complete	CY	1	232.00	232.00	52.80	12,250	90.00	20,880	0.00	0
Substructure Reinforced Concrete - Mats	CY	1	1,325.50	1,325.50	52.80	69,986	90.00	119,295	0.00	0
Structural Steel - Main Steel	TN	1	304.30	304.30	132.00	40,168	0.00	0	50.00	15,215
Steel - Hand Railing and Miscellaneous	TN	1	19.20	19.20	176.00	3,379	0.00	0	50.00	960
Steel - Station Roof	TN	1	14.95	14.95	176.00	2,631	0.00	0	50.00	748
Station Floors & Roof - Reinforced Concrete	CY	1	991.00	991.00	52.80	52,325	90.00	89,190	0.00	0
Station Crane - Colby 50/15 Ton Gantry Crane	TN	1	25.00	25.00	132.00	3,300	0.00	0	50.00	1,250
Station Elevator - Westinghouse 1200 lb capacity	TN	1	21.00	21.00	176.00	3,696	0.00	0	50.00	1,050
Emergency Diesel Generators	TN	1	8.50	8.50	176.00	1,496	0.00	0	50.00	425
Hydrogen Storage Shelter - Concrete (18x9)CBB	CY	1	5.69	5.69	21.12	120	90.00	512	0.00	0
Service Building - Concrete Block	CY	1	76.19	76.19	21.12	1,609	90.00	6,857	0.00	0
Intake Chlorination Building - CBB (13x14)	CY	1	8.17	8.17	21.12	173	90.00	735	0.00	0
Chlorine Storage Building - CBB (15x13)	CY	1	5.89	5.89	21.12	124	90.00	530	0.00	0
Concrete Foundation - Serv, Chem, Hydro, Co2	CY	1	837.30	837.30	52.80	44,209	90.00	75,357	0.00	0
All other Concrete - sewers, dock, FO pipe Sppts, trnch	CY	1	1,095.30	1,095.30	21.12	23,133	90.00	98,577	0.00	0
Subtotal						258,599		411,934		19,648

SANFORD DISMANTLEMENT STUDY

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Total Account 311						562,558		702,351		55,878
FERC Account 312										
Boiler Plant Equipment										
Fuel Oil & Gas Equipment										
Fuel - Light Oil Tank(1,000 BBL)	TN	1	4.44	4.44	n/a	5,000	0.00	0	50.00	222
Fuel - Service Oil Tank(6,000 BBL)	TN	2	26.66	53.32	n/a	25,000	0.00	0	50.00	2,666
Fuel Tank - Foundation and firewall(13,000 BBLs)	CY	1	295.00	295.00	n/a	0	0.00	44,857	0.00	0
Fuel Oil Tank - Cleaning (13,000 BBLs)	BBLs	1	13,000.00	13,000.00	n/a	0	0.00	13,922	0.00	0
Fuel Tank - Sand Base	CY	1	45.00	45.00	n/a	0	0.00	7,262	0.00	0
Fuel Oil Transfer Heaters	TN	2	4.00	8.00	176.00	1,408	0.00	0	50.00	400
Fuel Oil Heaters and strainers	TN	16	1.00	16.00	176.00	2,816	0.00	0	50.00	800
Fuel Oil Burner Pumps/motors - Regular	TN	3	1.50	4.50	176.00	792	0.00	0	50.00	225
Fuel Oil Booster Pump	TN	1	1.50	1.50	176.00	264	0.00	0	50.00	75
Fuel Oil Booster Pump Motor(75 hp)	TN	1	1.50	1.50	176.00	264	0.00	0	50.00	75
Fuel Oil/Gas Burners & Igniters	TN	16	0.60	9.60	176.00	1,690	0.00	0	50.00	480
Gas Piping - 16", 400 ft	TN	1	16.55	16.55	176.00	2,913	0.00	0	50.00	828
Fuel Oil Piping - 16" carbon steel	TN	1	3.79	3.79	176.00	667	0.00	0	50.00	190
Fuel Oil Piping - Supports - Concrete	CY	1	10.00	10.00	52.80	528	90.00	900	0.00	0
Miscellaneous Steel and Other	TN	1	2.83	2.83	176.00	498	0.00	0	50.00	142
Fuel Oil Piping Insulation	CY	1	25.00	25.00	40.00	1,000	8.00	200	0.00	0
Fuel Oil Piping Insulation	CY	1	50.00	50.00	1,250.00	62,500	100.00	5,000	0.00	0
Subtotal						105,340		72,141		6,102
Boiler Equipment										
Boiler Frame	TN	1	830.00	830.00	132.00	109,560	0.00	0	50.00	41,500
Platforms, Grating & Handrails	TN	1	185.00	185.00	176.00	32,560	0.00	0	50.00	9,250
Boiler Foundation	CY	1	787.50	787.50	52.80	41,580	90.00	70,875	0.00	0
Boiler Drum	TN	1	113.70	113.70	132.00	15,008	0.00	0	50.00	5,685
Boiler Other - Including:										
Air Preheater and lances	TN	2	109.00	218.00	132.00	28,776	0.00	0	50.00	10,900
Sootblowers	TN	1	10.75	10.75	176.00	1,892	0.00	0	50.00	538
Hangers and Supports and links	TN	1	18.00	18.00	176.00	3,168	0.00	0	50.00	900
Downcomers	TN	1	28.00	28.00	132.00	3,696	0.00	0	50.00	1,400
Furnace Tubes/Sphtr/Wtrwalls	TN	1	804.00	804.00	132.00	106,128	0.00	0	50.00	40,200
Reheater and RH attemperator	TN	1	129.20	129.20	132.00	17,054	0.00	0	50.00	6,460
Economizer	TN	1	45.00	45.00	132.00	5,940	0.00	0	50.00	2,250
Casing/Ducts/Flues	TN	1	542.00	542.00	176.00	95,392	0.00	0	50.00	27,100
Burners	TN	1	13.00	13.00	176.00	2,288	0.00	0	50.00	650
Attemperator and SH control	TN	1	1.50	1.50	176.00	264	0.00	0	50.00	75
Miscellaneous Steel and Equipment	TN	1	114.88	114.88	176.00	20,219	0.00	0	50.00	5,744
Air Coil Heaters	TN	1	3.00	3.00	176.00	528	0.00	0	50.00	150
Silencers	TN	1	40.00	40.00	176.00	7,040	0.00	0	50.00	2,000
Insulation	CY	1	50.00	50.00	40.00	2,000	8.00	400	0.00	0
Insulation	CY	1	314.36	314.36	1,250.00	392,950	100.00	31,436	0.00	0
Subtotal						886,044		102,711		154,802
Boiler Plant Auxiliaries										

SANFORD DISMANTLEMENT STUDY

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H.P. Feedwater Heater #1	TN	1	23.50	23.50	132.00	3,102	0.00	0	50.00	1,175
H.P. Feedwater Heater #2	TN	1	21.40	21.40	132.00	2,825	0.00	0	50.00	1,070
L.P. Feedwater Heater #3	TN	1	7.90	7.90	132.00	1,043	0.00	0	50.00	395
L.P. Feedwater Heater #4	TN	1	10.30	10.30	132.00	1,360	0.00	0	50.00	515
L.P. Feedwater Heater #5	TN	1	10.30	10.30	132.00	1,360	0.00	0	50.00	515
H.P. Feedwater Heater #6	TN	1	15.15	15.15	132.00	2,000	0.00	0	50.00	758
Boiler Feed Pumps incl motors	TN	3	7.50	22.50	176.00	3,960	0.00	0	50.00	1,125
BFP - Foundation	CY	1	16.00	16.00	52.80	845	90.00	1,440	0.00	0
Condensate Storage Tank - 60,000 Gal(21x24)	TN	1	19.67	19.67	176.00	3,462	0.00	0	50.00	984
Condensate Storage Tank Foundation	CY	1	12.40	12.40	52.80	655	90.00	1,116	0.00	0
Condensate Recovery Tank (14x6x4)	TN	2	1.50	3.00	176.00	528	0.00	0	50.00	150
Condensate Recovery Tank Foundation	CY	2	3.54	7.08	52.80	374	90.00	637	0.00	0
Condensate Recovery Cooler	TN	1	1.00	1.00	176.00	176	0.00	0	50.00	50
Condensate Pump	TN	3	1.50	4.50	176.00	792	0.00	0	50.00	225
Condensate Pump motor	TN	3	3.20	9.60	176.00	1,690	0.00	0	50.00	480
Instrument Air Compressor	TN	2	3.50	7.00	176.00	1,232	0.00	0	50.00	350
Blowdown Tank	TN	1	2.50	2.50	176.00	440	0.00	0	50.00	125
Evaporator	TN	1	2.50	2.50	176.00	440	0.00	0	50.00	125
Boiler Fill/Condensate Transfer Pump(40 hp)	TN	4	1.00	4.00	176.00	704	0.00	0	50.00	200
Extraction Heater Drain Pump(100 hp)	TN	2	3.00	6.00	176.00	1,056	0.00	0	50.00	300
Miscellaneous Steel and Equipment -Boiler Aux.	TN	1	6.77	6.77	176.00	1,192	0.00	0	50.00	339
Subtotal						29,233		3,193		8,880
Boiler Plant Piping										
Main Steam Piping	TN	1	21.05	21.05	132.00	2,779	0.00	0	50.00	1,053
Hot Reheat Piping	TN	1	34.42	34.42	132.00	4,543	0.00	0	50.00	1,721
Cold Reheat Piping	TN	1	29.08	29.08	132.00	3,839	0.00	0	50.00	1,454
Condensate and Air Evaporation	TN	1	47.31	47.31	176.00	8,327	0.00	0	50.00	2,366
Extraction Steam Piping	TN	1	8.28	8.28	176.00	1,457	0.00	0	50.00	414
Boiler Feed Piping	TN	1	10.58	10.58	132.00	1,397	0.00	0	50.00	529
Boiler Feed/Plant Piping Insulation	CY	1	350.00	350.00	1,250.00	437,500	100.00	35,000	0.00	0
Boiler Feed/Plant Piping Insulation	CY	1	150.00	150.00	40.00	6,000	8.00	1,200	0.00	0
Silencers	TN	1	1.20	1.20	176.00	211	0.00	0	50.00	60
Saturated Auxiliary Steam - Piping	TN	1	34.94	34.94	176.00	6,149	0.00	0	50.00	1,747
Service & Cooling Water Piping	TN	1	57.96	57.96	284.00	16,461	0.00	0	50.00	2,898
Instrument, Sampling & Control Piping	TN	1	37.46	37.46	284.00	10,639	0.00	0	50.00	1,873
Miscellaneous Steel and Equipment	TN	1	28.52	28.52	176.00	5,020	0.00	0	50.00	1,426
Subtotal						504,320		36,200		15,540
Feedwater Treatment and Cooling Water Equipment										
Cooling Water Pumps	TN	2	2.00	4.00	176.00	704	0.00	0	50.00	200
Cooling Water Piping	TN	1	272.07	272.07	176.00	47,884	0.00	0	50.00	13,604
Cooling Water Heat Exchangers	TN	2	1.50	3.00	284.00	852	0.00	0	50.00	150
Subtotal						49,440		0		13,954
Forced and Induced Draft Equipment										
FD Fans Foundations - Reinforced Concrete	CY	1	28.30	28.30	52.80	1,494	90.00	2,547	0.00	0
FD Fans w/ motors and couplings	TN	2	43.50	87.00	132.00	11,484	0.00	0	50.00	4,350
FD Air Ducts(incl. windboxes)	TN	1	69.25	69.25	176.00	12,188	0.00	0	50.00	3,463

SANFORD DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Insulation	CY	1	50.00	50.00	40.00	2,000	8.00	400	0.00	0
Insulation	CY	1	350.00	350.00	1,250.00	437,500	100.00	35,000	0.00	0
Gas ducts	TN	1	69.25	69.25	176.00	12,188	0.00	0	50.00	3,463
Stack Foundation - Reinforced Concrete	CY	1	620.00	620.00	52.80	32,736	90.00	55,800	0.00	0
Stack - lining/shaft	CY	1	519.75	519.75	52.80	27,443	90.00	46,778	0.00	0
ID Fans Foundations - Reinforced Concrete	CY	1	32.00	32.00	52.80	1,690	90.00	2,880	0.00	0
ID Fans w/ motors and couplings	TN	2	43.50	87.00	176.00	15,312	0.00	0	50.00	4,350
Miscellaneous Steel and Equipment	TN	1	22.55	22.55	176.00	3,969	0.00	0	50.00	1,128
Subtotal						558,003		143,405		16,753
Total Account 312						2,132,380		357,650		216,029
FERC Account 314										
Turbo-Generator Units										
Pedestal - Reinforced Concrete	CY	1	983.00	983.00	52.80	51,902	90.00	88,470	0.00	0
Turbine - Exciter and other	TN	1	147.35	147.35	100.00	14,735	0.00	0	50.00	7,368
Turbine - Stator	TN	1	216.25	216.25	100.00	21,625	0.00	0	50.00	10,813
Turbine - HP - IP Cylinder Cover	TN	1	20.00	20.00	100.00	2,000	0.00	0	50.00	1,000
Turbine - LP Cylinder Cover	TN	1	20.50	20.50	100.00	2,050	0.00	0	50.00	1,025
Turbine - LP Blade Ring(upper half)	TN	1	20.00	20.00	100.00	2,000	0.00	0	50.00	1,000
Turbine - IP Rotor	TN	1	14.00	14.00	100.00	1,400	0.00	0	50.00	700
Turbine - LP Rotor	TN	1	18.00	18.00	100.00	1,800	0.00	0	50.00	900
Turbine - Generator Rotor	TN	1	30.15	30.15	100.00	3,015	0.00	0	50.00	1,508
Turbine Copper	TN	1	37.00	37.00	400.00	14,800	0.00	0	710.00	26,270
Turbine Piping	TN	1	207.20	207.20	132.00	27,350	0.00	0	50.00	10,360
Turbine Insulation	CY	1	210.00	210.00	1,250.00	262,500	100.00	21,000	0.00	0
Turbine Enclosure	TN	1	14.75	14.75	176.00	2,596	0.00	0	50.00	739
Miscellaneous Steel and Equipment	TN	1	16.90	16.90	176.00	2,974	0.00	0	50.00	845
Subtotal						410,748		109,470		62,525
Condensers and Auxiliaries										
Condenser Shell	TN	1	285.00	285.00	132.00	37,620	0.00	0	50.00	14,250
Condenser - Aluminum-Brass Tubes	TN	1	87.07	87.07	284.00	24,728	0.00	0	140.00	12,190
Condenser Foundation - Reinforced Concrete	CY	1	185.25	185.25	52.80	9,781	90.00	16,673	0.00	0
Circulating Water Pumps - 58,000 gpm(incl mtr)	TN	2	29.50	59.00	176.00	10,384	0.00	0	50.00	2,950
Circulating Water Piping	TN	1	98.73	98.73	176.00	17,376	0.00	0	50.00	4,937
Condensate Pumps - 12" suction, 8" dischrg(incl mtrs)	TN	3	15.97	47.91	176.00	8,432	0.00	0	50.00	2,396
Condensate Pump - Foundation - RI Concrete	CY	1	10.50	10.50	52.80	554	90.00	945	0.00	0
Turbine Oil Resv.(bowser)	TN	1	47.00	47.00	176.00	8,272	0.00	0	50.00	2,350
Lube Oil Storage Tank (4500 gal)	TN	1	23.50	23.50	176.00	4,136	0.00	0	50.00	1,175
Miscellaneous Steel and Equipment	TN	1	41.07	41.07	176.00	7,228	0.00	0	50.00	2,054
Subtotal						128,512		17,618		42,300
Total Account 314						539,261		127,088		104,825
FERC Account 315										
Accessory Electrical Equipment										
Foundations & Structures										
Main Generator Leads & Enclosures(aluminum)	TN	1	10.00	10.00	420.00	4,200	0.00	0	540.00	5,400

SANFORD DISMANTLEMENT STUDY

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Manholes and Handholes - Concrete	CY	1	49.00	49.00	21.12	1,035	90.00	4,410	0.00	0
Transformer Foundations - Concrete	CY	1	39.00	39.00	52.80	2,059	90.00	3,510	0.00	0
Switchgear Foundations - Concrete	CY	1	37.00	37.00	52.80	1,954	90.00	3,330	0.00	0
Load Control Centers Foundations - Concrete	CY	1	12.00	12.00	52.80	634	90.00	1,080	0.00	0
Aux Power Transformer - 7,500 kva	TN	1	17.40	17.40	284.00	4,942	0.00	0	50.00	870
Startup Transformer	TN	1	23.25	23.25	284.00	6,603	0.00	0	50.00	1,163
Transformer Copper	TN	1	16.26	16.26	300.00	4,878	0.00	0	710.00	11,545
Storage Battery	TN	1	3.00	3.00	284.00	852	0.00	0	50.00	150
Underground Ducts - Concrete	CY	1	75.00	75.00	52.80	3,960	90.00	6,750	0.00	0
Conduit - rigid alum	TN	1	42.70	42.70	284.00	12,127	0.00	0	540.00	23,058
Exposed Conduits and Trays	TN	1	86.84	86.84	284.00	24,663	0.00	0	540.00	46,894
Buswork and Copper tubing	TN	1	1.00	1.00	284.00	284	0.00	0	710.00	710
Motor Control Centers	TN	1	4.50	4.50	284.00	1,278	0.00	0	50.00	225
Power/Control Wiring	TN	1	84.56	84.56	480.00	40,589	0.00	0	760.00	64,266
Main Control Board for B-T-G	TN	1	3.00	3.00	284.00	852	0.00	0	50.00	150
Load Control Centers Transformers	TN	2	3.10	6.20	284.00	1,761	0.00	0	50.00	310
Switchgear - 4,160v Metalclad	TN	1	20.00	20.00	284.00	5,680	0.00	0	50.00	1,000
Switchgear - 480v Metalclad	TN	1	18.00	18.00	284.00	5,112	0.00	0	50.00	900
Total Account 315						123,461		19,080		156,639
FERC Account 316										
Miscellaneous Power Plant Equipment										
Service Air Compressor	TN	1	8.00	8.00	176.00	1,408	0.00	0	50.00	400
Air Compressor - Concrete Foundation	CY	1	11.00	11.00	52.80	581	90.00	990	0.00	0
Total Account 316						1,989		990		400
FERC Account 353										
Substation Equipment										
Miscellaneous Steel	TN	1	20.53	20.53	284.00	5,831	0.00	0	50.00	1,027
Main Power Transformers - 180,000kva	TN	1	137.60	137.60	176.00	24,218	0.00	0	50.00	6,880
Transformer Copper	TN	1	55.04	55.04	300.00	16,512	0.00	0	710.00	39,078
Oil Circuit Breaker - 115 kva,	TN	1	8.50	8.50	284.00	2,414	0.00	0	50.00	425
Concrete - Foundations(Main, Oil Circuit, etc)	CY	1	120.00	120.00	52.80	6,336	90.00	10,800	0.00	0
Conduits - Concrete	CY	1	172.00	172.00	21.12	3,633	90.00	15,480	0.00	0
Conduit - Rigid Alum	TN	1	3.87	3.87	284.00	1,099	0.00	0	540.00	2,090
Buswork and Copper Tubing - 2", 4,460 l.f.	TN	1	2.00	2.00	284.00	568	0.00	0	710.00	1,420
Control & Power Wiring	TN	1	19.38	19.38	480.00	9,302	0.00	0	760.00	14,729
Total Account 353						69,912		26,280		65,649
TOTAL SANFORD UN IT 3						3,429,561		1,233,438		599,419
SANFORD UNITS 4 & 5										
FERC Account 311										
Site Sewer System										
Storm Sewers and Drains - Concrete(8" - 48")	TN	1	245.18	245.18	202.40	49,624	0.00	0	0.00	0
Floor Drains,Sump Pumps & Oily Sep. - 6" CI Pipe	TN	1	22.50	22.50	284.00	6,390	0.00	0	50.00	1,125
Oil Separator - Site Sewer	CY	2	31.48	62.96	52.80	3,324	90.00	5,666	0.00	0
Subtotal						59,339		5,666		1,125

SANFORD DISMANTLEMENT STUDY

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<u>Fuel Oil System/Area</u>										
Fuel Oil Storage Tank - 266,707 BBLs	TN	2	890.80	1,781.60	0.00	75,000	0.00	0	50.00	89,080
Fuel Oil Tank - Cleaning(266,707 BBLs)					0.00	0	n/a	339,926	0.00	0
Fuel Oil Storage Tank - Sand Base					0.00	0	n/a	169,484	0.00	0
Fuel Oil - Pump Transfer Pit - Reinforced Concrete	CY	1	106.00	106.00	52.80	5,597	90.00	9,540	0.00	0
Fuel Oil - Concrete Pipe Trenches	CY	1	51.35	51.35	52.80	2,711	90.00	4,622	0.00	0
Fuel Oil - Transfer Pit Pumps	TN	2	7.50	15.00	176.00	2,640	0.00	0	50.00	750
Fuel Oil - Concrete Retaining Wall	CY	1	741.50	741.50	52.80	39,151	90.00	66,735	0.00	0
Fuel Oil Pipe - Reinforced Concrete Supports	CY	1	43.00	43.00	52.80	2,270	90.00	3,870	0.00	0
Fuel Oil Piping - Steel (6" - 18")-Unload to Tanks	TN	1	31.44	31.44	178.00	5,533	0.00	0	50.00	1,572
Subtotal						132,903		594,177		91,402
<u>Service Water and Raw Water Systems</u>										
Water Treatment - Area Slab - Concrete	CY	1	520.00	520.00	52.80	27,456	90.00	46,800	0.00	0
Water Treatment - Chlorination System	TN	1	1.00	1.00	176.00	176	0.00	0	50.00	50
Fire Protection Piping - CI 2.5" to 8"	TN	1	34.22	34.22	284.00	9,718	0.00	0	50.00	1,711
Wash Water Booster Pump	TN	1	1.00	1.00	284.00	284	0.00	0	50.00	50
Drainage Lift Station Sump Pumps	TN	1	1.30	1.30	284.00	369	0.00	0	50.00	65
Service Water - Cast Iron Piping - 4" to 6"	TN	1	78.33	78.33	284.00	22,246	0.00	0	50.00	3,917
Subtotal						60,249		46,800		5,793
<u>Intake System</u>										
Intake Structure - Reinforced Concrete	CY	1	1,901.00	1,901.00	52.80	100,373	90.00	171,090	0.00	0
Intake Structure - Structural Steel(incl. crane)	TN	1	50.28	50.28	132.00	6,637	0.00	0	50.00	2,514
Intake Structure - Traveling Water Screens	TN	4	12.19	48.76	176.00	8,582	0.00	0	50.00	2,438
Intake Structure - Screen Wash Pumps	TN	4	0.50	2.00	176.00	352	0.00	0	50.00	100
Intake Structure - Concrete Stop Logs	CY	1	11.50	11.50	52.80	607	90.00	1,035	0.00	0
Open Cooling Water Piping	TN	1	58.68	58.68	202.40	11,877	0.00	0	50.00	2,934
Intake Cooling Water Pump Motors	TN	4	1.75	7.00	176.00	1,232	0.00	0	50.00	350
Intake Cooling Water Pumps	TN	4	1.37	5.48	176.00	964	0.00	0	50.00	274
Lake Fill Pumps	TN	2	4.67	9.34	176.00	1,644	0.00	0	50.00	467
Intake Structure - Crane incl. hoists	TN	2	25.23	50.46	176.00	8,881	0.00	0	50.00	2,523
Intake Conduit - Reinforced Concrete Pipe,78"	CY	1	1,123.50	1,123.50	202.40	227,396	0.00	0	0.00	0
Intake Transition Blocks - Concrete	CY	1	433.51	433.51	52.80	22,889	90.00	39,016	0.00	0
Intake Screen Refuse Line - Concrete Pipe	CY	1	72.09	72.09	202.40	14,591	0.00	0	0.00	0
Subtotal						406,028		211,141		11,600
<u>Discharge System</u>										
Discharge Conduit - 78" Reinforced Concrete Pipe	CY	1	933.45	933.45	202.40	188,930	0.00	0	0.00	0
Discharge Transition and Thrust Blocks	CY	1	115.00	115.00	52.80	6,072	90.00	10,350	0.00	0
Discharge Structure - Reinforced Concrete	CY	1	424.00	424.00	52.80	22,387	90.00	38,160	0.00	0
Discharge Structure - Concrete Stop Logs	CY	1	11.50	11.50	52.80	607	90.00	1,035	0.00	0
Subtotal						217,997		49,545		0
<u>Station Structures</u>										
Substructure concrete footings, piers, beams	CY	1	599.00	599.00	52.80	31,627	90.00	53,910	0.00	0
Substructure Reinforced Concrete - Miscellaneous	CY	1	4,437.00	4,437.00	52.80	234,274	90.00	399,330	0.00	0
Structural Steel - Main Steel	TN	1	539.50	539.50	132.00	71,214	0.00	0	50.00	26,975
Steel - Hand Railing and Miscellaneous	TN	1	10.00	10.00	176.00	1,760	0.00	0	50.00	500

SANFORD DISMANTLEMENT STUDY

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Station Floors & Roof - Reinforced Concrete	CY	1	958.00	958.00	52.80	50,582	90.00	86,220	0.00	0
Station Crane - Whiting 70/15 Crane - Bridge & Trolley	TN	2	115.20	230.40	132.00	30,413	0.00	0	50.00	11,520
Station Elevator - Westinghouse 1200 lb capacity	TN	2	45.60	91.20	176.00	16,051	0.00	0	50.00	4,560
Diesel Generator Building - Concrete	CY	1	45.90	45.90	21.12	969	90.00	4,131	0.00	0
Emergency Diesel Generators	TN	1	9.25	9.25	176.00	1,628	0.00	0	50.00	463
Hydrogen Storage Shelter - Concrete	CY	1	46.76	46.76	21.12	988	90.00	4,208	0.00	0
Subtotal						439,506		547,799		44,018
Total Account 311						1,316,020		1,455,128		153,937
FERC Account 312										
Boiler Plant Equipment										
Fuel Oil & Gas Equipment										
Fuel - Metering Oil Tank(12,000 BBL)	TN	2	51.32	102.64	0.00	25,000	0.00	0	50.00	5,132
Fuel Tank - Foundation and firewall					0.00	0	n/a	51,766	0.00	0
Fuel Oil Tank - Cleaning (12,000 BBLS)					0.00	0	n/a	26,000	0.00	0
Fuel Oil Tank - Sand Base (12,000 BBLS)					0.00	0	n/a	21,238	0.00	0
Fuel Oil Unloading Pump/Motor/Base	TN	4	8.65	34.60	176.00	6,090	0.00	0	50.00	1,730
Fuel Oil Transfer Pumps	TN	2	2.01	4.02	176.00	708	0.00	0	50.00	201
Fuel Oil - Transfer Heaters	TN	4	7.88	31.52	176.00	5,548	0.00	0	50.00	1,576
Fuel Oil - Burner Heaters	TN	10	3.28	32.80	176.00	5,773	0.00	0	50.00	1,640
Fuel Oil Burner Pumps/motors - Regular	TN	6	2.90	17.40	176.00	3,062	0.00	0	50.00	870
Fuel Oil - Burner Pump Suction Heater	TN	2	4.79	9.58	176.00	1,686	0.00	0	50.00	479
Fuel Oil Booster Pump	TN	4	1.48	5.92	176.00	1,042	0.00	0	50.00	296
Fuel Oil Booster Pump Motor	TN	4	2.00	8.00	176.00	1,408	0.00	0	50.00	400
Fuel Oil - Light Oil Pump/Motor	TN	4	1.07	4.28	176.00	753	0.00	0	50.00	214
Fuel Oil Burners & Igniters	TN	36	2.00	72.00	176.00	12,672	0.00	0	50.00	3,600
Fuel Oil Piping - 2" to 16" steel - tank to service	TN	1	33.07	33.07	176.00	5,820	0.00	0	50.00	1,654
Fuel Oil Piping - Supports - Concrete	CY	1	43.00	43.00	52.80	2,270	90.00	3,870	0.00	0
Miscellaneous Steel and Other	TN	1	6.02	6.02	176.00	1,060	0.00	0	50.00	301
Fuel Oil Piping Insulation	CY	1	10.00	10.00	40.00	400	8.00	80	0.00	0
Fuel Oil Piping Insulation	CY	1	40.00	40.00	1,250.00	50,000	100.00	4,000	0.00	0
Subtotal						123,291		106,954		18,093
Boiler Equipment										
Boiler Frame	TN	2	1,281.00	2,562.00	132.00	338,184	0.00	0	50.00	128,100
Platforms, Grating & Handrails	TN	2	222.00	444.00	176.00	78,144	0.00	0	50.00	22,200
Boiler Foundation	CY	1	1,641.00	1,641.00	52.80	86,645	90.00	147,690	0.00	0
Boiler Drum	TN	2	290.00	580.00	132.00	76,560	0.00	0	50.00	29,000
Boiler Other - Including:										
Air Preheater and lances	TN	4	242.00	968.00	132.00	127,776	0.00	0	50.00	48,400
Sootblowers	TN	60	6.90	414.00	176.00	72,864	0.00	0	50.00	20,700
Hangers and Supports and links	TN	2	210.00	420.00	176.00	73,920	0.00	0	50.00	21,000
Headers	TN	2	275.00	550.00	132.00	72,600	0.00	0	50.00	27,500
Downcomers	TN	2	337.00	674.00	132.00	88,968	0.00	0	50.00	33,700
Trimpipe	TN	2	38.00	76.00	176.00	13,376	0.00	0	50.00	3,800
Seal Air Piping	TN	2	16.00	32.00	176.00	5,632	0.00	0	50.00	1,600
Furnace Tubes	TN	2	668.00	1,336.00	132.00	176,352	0.00	0	50.00	66,800
Superheater	TN	2	720.00	1,440.00	132.00	190,080	0.00	0	50.00	72,000

SANFORD DISMANTLEMENT STUDY

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Reheater	TN	2	271.00	542.00	132.00	71,544	0.00	0	50.00	27,100
Economizer	TN	2	390.00	780.00	132.00	102,960	0.00	0	50.00	39,000
Furnace Guides(Buckstays)	TN	2	245.00	490.00	176.00	86,240	0.00	0	50.00	24,500
Penthouse	TN	2	45.00	90.00	132.00	11,880	0.00	0	50.00	4,500
Inner Casing & seals	TN	2	30.00	60.00	176.00	10,560	0.00	0	50.00	3,000
Outer Casing and doors	TN	2	209.00	418.00	176.00	73,568	0.00	0	50.00	20,900
Conduit - rigid alum - 2" 14,800 l.f.	TN	2	9.54	19.08	284.00	5,419	0.00	0	540.00	10,303
Miscellaneous Steel and Equipment	TN	2	220.12	440.24	176.00	77,482	0.00	0	50.00	22,012
Insulation - Boiler Equipment	CY	2	70.00	140.00	40.00	5,600	8.00	1,120	0.00	0
Insulation - Boiler Equipment	CY	2	652.52	1,305.04	1,250.00	1,631,300	100.00	130,504	0.00	0
Subtotal						3,477,654		279,314		626,115
Boiler Plant Auxiliaries										
L.P. Feedwater Heater #1	TN	2	24.85	49.70	132.00	6,560	0.00	0	50.00	2,485
L.P. Feedwater Heater #2	TN	2	17.70	35.40	132.00	4,673	0.00	0	50.00	1,770
L.P. Feedwater Heater #3	TN	2	14.95	29.90	132.00	3,947	0.00	0	50.00	1,495
L.P. Feedwater Heater #4	TN	2	13.70	27.40	132.00	3,617	0.00	0	50.00	1,370
L.P. Feedwater Heater #5	TN	2	21.00	42.00	132.00	5,544	0.00	0	50.00	2,100
H.P. Feedwater Heater #6	TN	2	54.75	109.50	132.00	14,454	0.00	0	50.00	5,475
H.P. Feedwater Heater #7	TN	2	68.55	137.10	132.00	18,097	0.00	0	50.00	6,855
Boiler Feed Pumps	TN	4	31.65	126.60	176.00	22,282	0.00	0	50.00	6,330
Boiler Feed Pump Foundation	CY	1	407.00	407.00	52.80	21,490	90.00	36,630	0.00	0
Condensate Storage Tank - 150,000 Gal	TN	2	43.26	86.52	176.00	15,228	0.00	0	50.00	4,326
Condensate Storage Tank Foundation	CY	1	194.00	194.00	52.80	10,243	90.00	17,460	0.00	0
Condensate Recovery Tank	TN	2	3.67	7.34	176.00	1,292	0.00	0	50.00	367
Condensate Recovery Tank Foundation	CY	2	3.55	7.10	52.80	375	90.00	639	0.00	0
Condensate Recovery Drain Cooler	TN	2	1.00	2.00	176.00	352	0.00	0	50.00	100
Condensate Recovery Vent Condensor	TN	2	1.82	3.64	176.00	641	0.00	0	50.00	182
Heater Drain Pump/Motors	TN	2	2.45	4.90	176.00	862	0.00	0	50.00	245
Blowdown Tank	TN	2	6.65	13.30	176.00	2,341	0.00	0	50.00	665
Miscellaneous Steel and Equipment	TN	1	21.57	21.57	176.00	3,796	0.00	0	50.00	1,079
Subtotal						135,793		54,729		34,844
Boiler Plant Piping										
Main Steam Piping	TN	2	70.16	140.32	132.00	18,522	0.00	0	50.00	7,016
Hot Reheat Piping	TN	2	114.73	229.46	132.00	30,289	0.00	0	50.00	11,473
Cold Reheat Piping	TN	2	96.93	193.86	132.00	25,590	0.00	0	50.00	9,693
Condensate and Air Evaporation	TN	2	157.69	315.38	176.00	55,507	0.00	0	50.00	15,769
Extraction Steam Piping	TN	2	27.60	55.20	176.00	9,715	0.00	0	50.00	2,760
Boiler Feed Piping	TN	2	123.90	247.80	132.00	32,710	0.00	0	50.00	12,390
Boiler Feed/Plant Piping Insulation	CY	2	50.00	100.00	40.00	4,000	8.00	800	0.00	0
Boiler Feed/Plant Piping Insulation	CY	2	485.20	970.40	1,250.00	1,213,000	100.00	97,040	0.00	0
Silencers	TN	1	3.00	3.00	176.00	528	0.00	0	50.00	150
Saturated Auxiliary Steam - Piping	TN	2	116.45	232.90	176.00	40,990	0.00	0	50.00	11,645
Service & Cooling Water Piping	TN	2	193.21	386.42	284.00	109,743	0.00	0	50.00	19,321
Instrument, Sampling & Control Piping	TN	2	124.85	249.70	284.00	70,915	0.00	0	50.00	12,485
Closed Cooling Water System - Piping	TN	2	66.30	132.60	176.00	23,338	0.00	0	50.00	6,630
Instrument Air Compressor Complete	TN	4	3.00	12.00	176.00	2,112	0.00	0	50.00	600
Service Air Tank/Receiver	TN	1	1.66	1.66	176.00	292	0.00	0	50.00	83

SANFORD DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Instrument Air Tank/Receiver	TN	2	4.06	8.12	176.00	1,429	0.00	0	50.00	406
Sealing Air Piping	TN	2	32.84	65.68	284.00	18,653	0.00	0	50.00	3,284
Miscellaneous Steel and Equipment	TN	1	77.24	77.24	176.00	13,594	0.00	0	50.00	3,862
Miscellaneous Piping	TN	1	15.60	15.60	284.00	4,430	0.00	0	50.00	780
Subtotal						1,675,357		97,840		118,347
Feedwater Treatment and Cooling Water Equipment										
Retention Tank - 20,000 Gal Cap	TN	1	6.00	6.00	176.00	1,056	0.00	0	50.00	300
Demin. Gas Chlorinator	TN	1	1.50	1.50	176.00	264	0.00	0	50.00	75
Closed Cooling Water Pumps/Motors	TN	4	2.13	8.52	176.00	1,500	0.00	0	50.00	426
Cooling Water Heat Exchangers	TN	4	22.40	89.60	284.00	25,446	0.00	0	50.00	4,480
Subtotal						28,266		0		5,287
Forced and Induced Draft Equipment										
FD Fans Foundations - Reinforced Concrete	CY	1	519.00	519.00	52.80	27,403	90.00	46,710	0.00	0
FD Fans w/out motors, w/ coupling	TN	4	20.70	82.80	132.00	10,930	0.00	0	50.00	4,140
FD Fans motor	TN	4	6.25	25.00	132.00	3,300	0.00	0	50.00	1,250
FD & ID Air Ducts(incl. windboxes)	TN	2	146.00	292.00	176.00	51,392	0.00	0	50.00	14,600
ID Fans Foundations - Reinforced Concrete	CY	1	872.00	872.00	52.80	46,042	90.00	78,480	0.00	0
ID Fans w/out motors, w/ coupling	TN	4	58.60	234.40	132.00	30,941	0.00	0	50.00	11,720
ID Fans motors	TN	4	13.65	54.60	132.00	7,207	0.00	0	50.00	2,730
Insulation	CY	2	80.00	160.00	40.00	6,400	8.00	1,280	0.00	0
Insulation	CY	2	700.00	1,400.00	1,250.00	1,750,000	100.00	140,000	0.00	0
Gas ducts	TN	2	169.00	338.00	176.00	59,488	0.00	0	50.00	16,900
Stack - Fndatn/Column/Lining - Reinforced Concrete	CY	2	2,643.48	5,286.96	52.80	279,151	90.00	475,826	0.00	0
Stack - Breeching	TN	2	60.00	120.00	176.00	21,120	0.00	0	50.00	6,000
Dust - Collectors	TN	4	75.25	301.00	176.00	52,976	0.00	0	50.00	15,050
Carbon Reinjection Piping	TN	2	1.14	2.28	176.00	401	0.00	0	50.00	114
Miscellaneous Steel and Equipment - FD and OD Area	TN	2	27.93	55.86	176.00	9,831	0.00	0	50.00	2,793
Steam Coil Air Heater	TN	4	8.00	32.00	176.00	5,632	0.00	0	50.00	1,600
Subtotal						2,362,215		742,296		76,897
Total Account 312						7,802,576		1,281,133		879,576
FERC Account 314										
Turbo-Generator Units										
Pedestal - Reinforced Concrete	CY	1	4,011.00	4,011.00	52.80	211,781	90.00	360,990	0.00	0
Turbine - Stator	TN	2	327.10	654.20	100.00	65,420	0.00	0	50.00	32,710
Turbine - HP/IP Cylinder Cover	TN	2	46.10	92.20	132.00	12,170	0.00	0	50.00	4,610
Turbine - No. 1 LP Cylinder Cover	TN	2	45.90	91.80	132.00	12,118	0.00	0	50.00	4,590
Turbine - No. 1 Inner Cylinder Cover	TN	2	19.55	39.10	100.00	3,910	0.00	0	50.00	1,955
Turbine - HP/IP Rotor	TN	2	27.30	54.60	100.00	5,460	0.00	0	50.00	2,730
Turbine - No. 1 LP Rotor	TN	2	48.00	96.00	100.00	9,600	0.00	0	50.00	4,800
H.P. Upper Shell	TN	2	31.00	62.00	100.00	6,200	0.00	0	50.00	3,100
H.P. Lower Shell	TN	2	31.21	62.42	100.00	6,242	0.00	0	50.00	3,121
Generator - Rotor	TN	2	58.75	117.50	100.00	11,750	0.00	0	50.00	5,875
Turbine - LP Rotor Lifting Gear	TN	2	4.00	8.00	100.00	800	0.00	0	50.00	400
Turbine Copper	TN	1	48.00	48.00	400.00	19,200	0.00	0	710.00	34,080

SANFORD DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Turbine Piping	TN	2	260.00	520.00	132.00	68,640	0.00	0	50.00	26,000
Turbine Insulation	CY	2	100.00	200.00	40.00	8,000	8.00	1,600	0.00	0
Turbine Insulation	CY	2	630.00	1,260.00	1,250.00	1,575,000	100.00	126,000	0.00	0
Turbine Enclosure	TN	2	36.75	73.50	176.00	12,936	0.00	0	50.00	3,675
Miscellaneous Steel and Equipment- Turbine area	TN	2	19.67	39.34	176.00	6,924	0.00	0	50.00	1,967
Turbine Generator Mat - concrete	CY	1	1,961.00	1,961.00	52.80	103,541	90.00	176,490	0.00	0
Subtotal						2,139,691		665,080		129,613
Condensers and Auxiliaries										
Condenser Shell	TN	2	867.50	1,735.00	132.00	229,020	0.00	0	50.00	86,750
Condenser - Aluminum-Brass Tubes	TN	2	223.51	447.02	284.00	126,954	0.00	0	140.00	62,583
Condenser Foundation - Reinforced Concrete	CY	1	110.00	110.00	52.80	5,808	90.00	9,900	0.00	0
Circulating Water Pumps/Motors - 58,000 gpm	TN	4	38.82	155.28	176.00	27,329	0.00	0	50.00	7,764
Condensate Pumps - 12" suction, 8" dischrg(incl mtrs)	TN	4	15.70	62.80	176.00	11,053	0.00	0	50.00	3,140
Turbine Oil Conditioner	TN	4	12.25	49.00	176.00	8,624	0.00	0	50.00	2,450
Turbine Lube Oil Coolers	TN	1	4.00	4.00	176.00	704	0.00	0	50.00	200
Miscellaneous Steel and Equipment- Cond & Aux.	TN	1	22.91	22.91	176.00	4,032	0.00	0	50.00	1,146
Lube Oil Storage Tank	TN	2	1.53	3.06	176.00	539	0.00	0	50.00	153
Subtotal						414,062		9,900		164,185
Total Account 314						2,553,754		674,980		293,798
FERC Account 315										
Accessory Electrical Equipment										
Foundations & Structures										
Main Generator Leads & Enclosures(aluminum)	TN	2	15.00	30.00	480.00	14,400	0.00	0	540.00	16,200
Manholes and Handholes - Concrete	CY	1	961.00	961.00	21.12	20,296	90.00	86,490	0.00	0
Transformer Foundations - Concrete	CY	1	673.00	673.00	52.80	35,534	90.00	60,570	0.00	0
Switchgear Foundations - Concrete	CY	1	348.00	348.00	52.80	18,374	90.00	31,320	0.00	0
Load Control Centers Foundations - Concrete	CY	1	30.00	30.00	52.80	1,584	90.00	2,700	0.00	0
Aux Power Transformer - 7,500 kva	TN	2	81.55	163.10	284.00	46,320	0.00	0	50.00	8,155
Startup Transformer	TN	1	62.00	62.00	284.00	17,608	0.00	0	50.00	3,100
Station Service Transformer	TN	1	54.35	54.35	284.00	15,435	0.00	0	50.00	2,718
Transformer Copper	TN	1	79.16	79.16	300.00	23,748	0.00	0	710.00	56,204
Storage Battery	TN	2	3.00	6.00	284.00	1,704	0.00	0	50.00	300
Underground Ducts - Concrete	CY	1	2,778.00	2,778.00	202.40	562,267	0.00	0	0.00	0
Conduit - rigid aluminum - Access Electrical	TN	2	21.43	42.86	284.00	12,172	0.00	0	540.00	23,144
Underground Conduit - Access Electrical	CY	2	10.00	20.00	21.12	422	90.00	1,800	0.00	0
Exposed Conduits and Trays - Access Electrical	TN	2	5.46	10.92	284.00	3,101	0.00	0	540.00	5,897
Buswork - Aluminum	TN	2	12.41	24.82	284.00	7,049	0.00	0	540.00	13,403
Motor Control Centers - Access Electrical	TN	2	3.00	6.00	284.00	1,704	0.00	0	50.00	300
Copper Wiring - 24,000 ft.	TN	1	7.92	7.92	480.00	3,802	0.00	0	760.00	6,019
Power/Control Wiring - 390,000 ft.	TN	1	243.75	243.75	480.00	117,000	0.00	0	760.00	185,250
Main Control Board for B-T-G	TN	1	3.00	3.00	284.00	852	0.00	0	50.00	150
Load Control Centers Transformers	TN	9	3.15	28.35	284.00	8,051	0.00	0	50.00	1,418
Switchgear - 4,160v Metalclad - Access Electrical	TN	2	20.00	40.00	284.00	11,360	0.00	0	50.00	2,000
Switchgear - 480v Metalclad - Access Electrical	TN	2	18.00	36.00	284.00	10,224	0.00	0	50.00	1,800
Total Account 315						933,010		182,880		326,057

SANFORD DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
FERC Account 353										
Substation Equipment										
Miscellaneous Steel - Substation	TN	1	20.00	20.00	284.00	5,680	0.00	0	50.00	1,000
Main Power Transformers - 460,000kva	TN	2	431.00	862.00	176.00	151,712	0.00	0	50.00	43,100
Transformer Copper	TN	1	172.40	172.40	300.00	51,720	0.00	0	710.00	122,404
Oil Circuit Breaker - 138 kva, 2000 amps	TN	1	9.00	9.00	176.00	1,584	0.00	0	50.00	450
Oil Circuit Breaker - 230 kva, 2000 amps	TN	7	26.50	185.50	284.00	52,682	0.00	0	50.00	9,275
Main Power Transformers - Foundation	CY	1	270.00	270.00	52.80	14,256	90.00	24,300	0.00	0
Oil Circuit Breakers - Foundation - Substation	CY	1	35.00	35.00	52.80	1,848	90.00	3,150	0.00	0
Conduits - Concrete - in substation	CY	1	14.50	14.50	21.12	306	90.00	1,305	0.00	0
Conduit - Rigid Alum - in substation	TN	1	4.00	4.00	284.00	1,136	0.00	0	540.00	2,160
CableTrays - in substation	TN	1	3.03	3.03	284.00	861	0.00	0	50.00	152
Buswork and Copper Tubing - 2", 4,460 l.f.	TN	1	2.87	2.87	284.00	815	0.00	0	710.00	2,038
Control & Power Wiring (79,000 ln.ft.)	TN	1	49.37	49.37	480.00	23,698	0.00	0	760.00	37,521
Total Account 353						<u>306,297</u>		<u>28,755</u>		<u>218,099</u>
TOTAL SANFORD UNITS 4 & 5						<u>12,911,657</u>		<u>3,622,877</u>		<u>1,871,468</u>
TOTAL SANFORD PLANT (Incl. Units 1 & 2)						17,226,054		5,599,471		2,581,583
TOTAL SANFORD PLANT (excl. Units 1 & 2)						17,053,153		5,387,370		2,566,141

SCHERER UNIT 4 AND RELATED COMMON PLANT

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Scherer Unit 4 and Related Common Facilities

The Scherer Steam Plant is a coal fired generating station consisting of four units and all the common facilities required in generating electricity. It is located on 12,000 acres of land (the main operating area of the plant site is approximately 3,500 acres) in Monroe County near the Ocmulgee River about 17 miles north of Macon, Georgia. Although built for Georgia Power Corporation (GPC), Florida Power & Light Company (FPL) and Jacksonville Electric Authority (JEA) have completed the purchase of one generating unit, Scherer Unit 4, and related common facilities. The installment purchase of these facilities was effected in four installments over the period from 1991 to 1995. Now that the purchase is complete, FPL owns 76.36% and JEA owns 23.64% of Unit 4. FPL owns 38.18% of the common facilities related to units 3 and 4 and 19.09% of those common facilities related to all four units.

Scherer Unit 4 achieved initial operation on December 21, 1988 and was declared commercial on February 28, 1989. The unit consists of a boiler turbine generator, condenser, a 530-foot high natural draft-cooling tower, a shared smokestack (shared with unit 3), electrical switching equipment, and water and fuel facilities. Common facilities include the power house (which houses the four generating units at the site), Lake Juliette (a man-made 3,600 acre lake), a 750 acre ash disposal pond, a 300 acre ash settling pond, a 40 acre retention pond, a 90 acre coal storage yard and a 500 kv switchyard, to interconnect the 4 units at the site to Georgia Power's transmission system.

Scherer Unit 4 can produce 818 megawatts of electricity. The boiler is capable of producing 5,790,000 pounds of steam per hour at 2,400 pounds per square inch pressure at 1,000 degrees Fahrenheit. Under full load conditions the boiler burns 322 tons of coal per hour (7,728 tons per day). The coal burned at Scherer is delivered by rail from Appalachian coal mines and is unloaded by a sophisticated coal handling system which is capable of unloading an 80 car train in a half hour. The unit uses a closed loop steam cycle with a separate loop of water drawn from Lake Juliette to serve as a coolant in the condensers. The turbine generators, manufactured by General Electric have a nameplate generating capacity of 818 megawatts and at full load produces 1.2 million horsepower. Electrostatic precipitators are used to remove more than 99% of the fly ash from the flue gasses that leave the boiler after the coal burning process. An automatic opacity sensor in the 1,000-foot stack monitors emissions.

Florida Power & Light Company last requested and received approval for a change in dismantlement accruals for the Scherer Units in Docket No. 941343-EI, Order No. PSC-95-1532-FOF-EI, issued on December 12, 1995. The effective date of the current accruals is January 1, 1995.

**SCHERER
SUMMARY OF DISMANTLEMENT COSTS**

FERC Account	Description	Removal Cost (A)	Disposal Cost (B)	Salvage Value (C)	Total (D)=(A + B - C)
<u>Scherer Common (supporting Units 1 through 4)</u>					
Production Plant					
311	Structures and Improvements	642,939	783,666	33,335	1,393,270
312	Boiler Plant Equipment	2,602,486	2,775,860	219,646	5,158,700
314	Turbogenerator Units	140,465	152,760	14,570	278,655
315	Accessory Electrical Equipment	1,338	0	400	938
316	Miscellaneous Equipment	588	0	175	413
	Subtotal	3,387,816	3,712,286	268,126	6,831,976
Transmission Plant					
353	Substation Equipment	158,513	0	143,790	14,723
	Site Mangement Expenses	763,776			763,776
	Intake & Discharge Backfill	50,258			50,258
	Grading & Seeding	36,206,100			36,206,100
	Subtotal	37,178,647	0	143,790	37,034,857
	Total	40,566,463	3,712,286	411,916	43,866,833
	Contingency - 16%	6,490,634	593,966		7,084,600
	Total Scherer Common (supporting Units 1 through 4)	47,057,097	4,306,252	411,916	50,951,432
	Unusable M&S Inventory	3,320,474		498,071	2,822,403
	Total Scherer Common including Unusable M & S	50,377,571	4,306,252	909,987	53,773,835
	FPL's Ownership Percentage - 19.09%	9,617,078	822,063	173,717	10,265,425
					10,265,425
<u>Scherer Common (supporting Units 3 & 4)</u>					
311	Structures and Improvements	62,994	129,465	3,609	188,850
312	Boiler Plant Equipment	1,691,516	2,182,453	36,892	3,837,077
314	Turbogenerator Units	10,513	6,742	1,400	15,855
315	Accessory Electrical Equipment	0	0	0	0
316	Miscellaneous Equipment	0	0	0	0
	Subtotal	1,765,023	2,318,660	41,901	4,041,782
	Contingency - 16%	282,404	370,986		653,389
	Total Scherer Common (supporting Units 3 & 4)	2,047,427	2,689,646	41,901	4,695,171
	FPL's Ownership Percentage - 38.18%	781,708	1,026,907	15,998	1,792,616
<u>Scherer Unit 4</u>					
311	Structures and Improvements	586,188	149,590	153,925	581,853
312	Boiler Plant Equipment	6,141,661	258,735	2,081,584	4,318,812
314	Turbogenerator Units	1,378,168	1,667,280	192,946	2,852,502
315	Accessory Electrical Equipment	288,596	0	443,304	(154,708)
316	Miscellaneous Equipment	7,524	0	2,250	5,274
	Subtotal	8,402,137	2,075,605	2,874,009	7,603,733
	Contingency - 16%	1,344,342	332,097		1,676,439
	Total Scherer Unit 4	9,746,479	2,407,702	2,874,009	9,280,172
	FPL's Ownership Percentage - 76.36%	7,442,411	1,838,521	2,194,593	7,086,339
	Total Dismantlement Costs - FPL's Ownership	17,841,197	3,687,491	2,384,308	19,144,381

**SCHERER
DISMANTLEMENT COST FOR INFLATION PROJECTION**

Description	Labor (A)	Material & Equipment (B)	Burial (C)	Salvage (D)	Total (A) + (B) + (C) - (D)
Scherer Common (supporting Units 1 through 4)	5,136,368	4,480,710	822,063	173,717	10,265,425
Scherer Common (supporting Units 3 & 4)	469,025	312,683	1,026,907	15,998	1,792,616
Scherer Unit 4	4,465,447	2,976,965	1,838,521	2,194,593	7,086,339
Total	10,070,840	7,770,357	3,687,491	2,384,308	19,144,381

Labor is 60% of Removal Cost from Summary of Dismantlement Costs.
 Material & Equipment is 40% of Removal Cost from Summary of Dismantlement Costs.
 Burial is 100% of Disposal Cost from Summary of Dismantlement Costs.
 Salvage is 100% of Salvage from Summary of Dismantlement Costs.

SCHERER DISMANTLEMENT ASSUMPTIONS

FPL and the Jacksonville Electric Authority (JEA) are joint owners of Scherer Unit 4 and related Common Facilities. Contractually each co-owner is responsible for his share of all decommissioning costs.

FPL will provide management personnel for the dismantlement effort.

FPL will prepare the request for proposal package and solicit bids for the decommissioning effort.

FPL will provide site security during the dismantlement.

FPL will hire a demolition contractor to perform the actual dismantling work. This contractor will have the salvage rights to all plant equipment and structural material.

The land will be made available for future use.

All dismantling work will be done in accordance with OSHA regulations.

The lube oil storage tanks will be cleaned and their contents disposed of according to the requirements of current regulations.

The following items will be removed:

- a. All structures, equipment, and concrete pads, pedestals, foundations, etc.;
- b. All underground gas, oil, sewer and water piping and electrical conduits (underground concrete piping to be collapsed);
- c. All hazardous and contaminated materials, e.g., acid filled lead batteries, oil tank residue.

Discussions with FPL's Power Generation Services Department (PGS) indicate that the return of the site to a green field condition entails removal of all structures above the wood pilings and steel-encased concrete pilings. The removal of the pilings would be unfeasible and, therefore, will remain in place.

All coal except unrecoverable base in the storage area will be burned before dismantling occurs. Unrecoverable base coal will be removed to the ashpond.

The turbine pedestals and chimney will be control-blasted.

Scrap will be unprepared, i.e., cut only to the extent required to load the pieces on scrap dealers' trailers. Trucking costs for removal are paid by the scrap dealer and are reflected in the salvage value paid.

The estimate does not reflect land value or its resale.

The productivity factors employed are assumed valid for purposes of this study.

A contingency of 16% has been applied to the total removal and disposal costs. This contingency percentage covers costs associated with delays occurring after dismantlement begins, due to such causes as equipment failure and weather delays.

The costs of such overhead items as project management, site security, etc., have been estimated by FPL's PGS Department. These costs are listed on the cost summary pages for each site's dismantlement study.

All materials and equipment are assumed to be either fully salvageable or to be disposed of completely. The availability of powerful cutting shears makes possible the cutting of even the heaviest steel to a size that permits salvage as scrap. Any unusable materials and supplies inventory will be sold as scrap. Estimated balances of such inventory

(with an assumption of a 15% salvage value) have been included on the cost summary pages for each site's dismantlement study.

A 30% swell factor is used to compute the disposal cost per cubic yard of concrete. One cubic yard of concrete becomes 1.3 cubic yards of concrete rubble after demolition.

The switchyard and ancillary equipment (FERC account 353) will remain in place with the exception of the main power transformers, oil circuit breakers, superstructures, and foundations associated with the tie-in of plant generated power in the switchyard.

The turbine pedestals and chimneys will be control-blasted.

Transformer and circuit breaker insulating oils are assumed not to contain PCB's. Therefore, the transformers and oil circuit breakers will be salvageable.

It is assumed that dismantlement activity at Scherer plant will begin five years after end of service. The end of service dates used for this assumption conform to the economic recovery period ending dates used in the Scherer plant depreciation study filed as of year end 1997.

Sherer Unit 4 and all common facilities are asbestos free.

DISMANTLING ACTIVITIES: COAL FIRED PLANTS

- Remove loose equipment, furniture, and spare parts.
- Drain liquids, drum-up, and dispose of drums.
- Remove solid and liquid waste from waste treatment processing areas – landfilled material, precipitated material in ponds and tanks, contaminated resins and reactants.
- Strip all insulation and covering, package and remove to acceptable landfill.
- Collapse circulating water lines. Remove underground piping and backfill all trenches.
- Remove main steam, hot and cold piping, downcomers, valves and supports, pumps, motors, generator auxiliary equipment, feedwater heaters, soot blowers, and condensers.
- Remove makeup structure, equipment, pumps, piping and valves.
- Remove systems that must be completed prior to the start of the boiler removal, including lube oil pumps, all piping, instrument and electrical systems.
- Remove forced drafts and induced draft ductwork, air heaters and fans.
- Remove hoppers, burners, upper and lower headers, manways, and waterwalls.
- Remove heavy steel structures and above ground steel – precut key members, lower and cut at ground level
- Remove fire protection, building heating, compressors, air dryers, control equipment and electrical systems.
- Disassemble crane, boiler feed pumps, and turbine generator.
- Separate scrap metals, and remove to scrap yard.
- Remove and dispose of miscellaneous rubble.
- Remove turbine pedestals, foundations, and heavy concrete structures and buildings, stack foundations, equipment foundations, and substructures. Remove to landfill.
- Install environmental monitoring equipment, such as at wells.
- Remove switchyard electrical equipment, structures and foundations.
- Cut off piles and remove pile caps. Remove concrete encased duct banks and underground piping.
- Remove railroad tracks.
- Backfill, site grading, seeding and mulching.
- Test and remove contaminated soil/bases – all areas.

DISMANTLING ACTIVITIES: COAL FIRED PLANTS

(Continued)

- Install environmental monitoring equipment such as wells.
- Remove or improve remaining site facilities such as buildings, fences, parking areas in accordance with local code and regulations.
- Install/modify existing site storm water runoff system.
- Remove switchyard electrical equipment, structures, and foundations. Modify services to remaining occupied structures as required.
- Remove gas supply metering site, valve stations, underground distribution system.
- Backfill, site grading, seeding, mulching.
- Remove solid and liquid wastes from waste treatment processing areas – landfilled material, precipitated material in ponds and tanks, contaminated resins and reactants.
- Remove marine facilities such as fuel unloading docks, equipment, bridges, and dams.
- Cut and remove fuel oil tanks, piping, valves, and supports.
- Remove top soil/gravel, backfill, and remove barrier wall foundation.

SCHERER DISMANTLEMENT STUDY

DEVELOPMENT OF COST FACTORS

Cost factors have been developed to compute the net salvage value of the demolition of Scherer Unit 4. The net salvage value of the demolition is the net of: the removal and disposal cost and the salvage value of equipment and steel not disposed of. These factors provide a unit cost or value for removal, disposal and salvage of a given unit of measure of the component materials of which a power plant is constructed. The assumption is that the cost or value per unit of a given component can be multiplied by the quantity of that component in the plant to calculate a total cost or value for removal, disposal, or salvage of that component.

REMOVAL COST FACTORS

The removal cost factors developed for this study have two elements: a burdened labor rate and productivity factor. The burdened labor rate multiplied by the productivity factor yields the removal cost factor. The labor rates used in this study were developed by FPL's Power Generation Services Department (PGS). The crew rate per man-hour is for a crew consisting of six laborers, one laborer foreman and one heavy equipment operator - a typical crew for demolition work. The rate includes the cost per man-hour of a Trojan 3500Z front end loader with a four yard bucket, and an American 9310, two hundred twenty-five ton crane with a two hundred foot boom. The productivity factors employed, e.g., the number of man-hours required to remove a given unit of measure of concrete, were developed by an engineering consulting firm. These factors are assumed valid for purposes of this study.

Labor Rate

Labor rates are based on Means Union wages for 1998. The rates are adjusted to reflect non-union crews and factored to the geographical location of the site. Wage rates are based on a 40 hour work week.

Labor	\$21.80	X	6	=	\$130.77
Foreman	\$28.00	X	1	=	\$28.00
Heavy Equipment Operator	\$26.10	X	1	=	\$26.10
Total Cost per hour of 8 man crew					<u>\$184.88</u>

Cost per man hour \$184.88 / 8 = \$23.11

Equipment Rate

The equipment rate is based on the following equipment:

Excavator	14,968.30
Front End Loader	5,092.50
Cutting Equipment	200.00
Total per month	<u>\$20,261</u>

20,260.80 / 176 hours per month = 115.12

Cost per man hour	\$115.12 / 8 =	\$14.39
Plus: amount for small tools		0.80
Total Cost per man hour		<u><u>\$15.19</u></u>

SCHERER DISMANTLEMENT STUDY

Equipment & Labor Summary

Labor	\$23.11
Equipment	15.19
Total	<u>\$38.30</u>
Rounded	<u>\$38.00</u>
For Concrete demolition add \$4.00 per hour additional equipment charge.	<u>\$42.00</u>

The Removal Cost Factor is the product of the productivity factor for removal of a particular component multiplied by the total burdened hourly labor rate. The removal cost factors for all materials to be removed from FPL's sites are as follows:

<u>Components</u>	<u>Hourly Rate</u>	<u>Productivity Factor</u>	<u>Removal Factor</u>
Extra Heavy Steel (1)	\$38.00	2.50 MH / Ton	\$95.00 / Ton
Heavy Steel (2)	\$38.00	3.30 MH / Ton	\$125.40 / Ton
General Steel	\$38.00	4.40 MH / Ton	\$167.20 / Ton
Light Steel	\$38.00	7.10 MH / Ton	\$269.80 / Ton
Concrete	\$42.00	0.48 MH / CY	\$20.16 / CY
Reinforced Concrete	\$42.00	1.20 MH / CY	\$50.40 / CY
Copper-Elect. Cable & Generator Leads & Copper - Generator	\$38.00	12.00 MH / Ton	\$456.00 / Ton
Copper - Transformer			\$400.00 / Ton
			\$300.00 / Ton
General Insulation	\$38.00	1.00 MH / CY	\$38.00 / CY
Inground Pipe-Metal(3)	\$38.00	6.00 MH / Ton	\$228.00 / Ton
Concrete Pipe (collapsed)	\$42.00	4.60 MH / Ton	\$193.20 / Ton

(1) Includes turbine generator.

(2) Includes parts of the steam generator, pipe larger than 8 inches.

(3) Includes cost to backfill the trenches.

DISPOSAL COST FACTORS

Three cost factors were developed to compute the cost of disposal of non-hazardous wastes at the Diamond Waste Landfill. Concrete and calcium silicated insulation are non-hazardous wastes. The tipping fee of \$26.50/ton, and the haul rate, \$125 per haul (including driver) were provided by Waste management, Inc. of Macon, Georgia.

Cost factors were also developed to compute the cost of removal and disposal of oil tanks, including the cost of related soil remediation. Such costs are computed for each tank in FPL's system, and are located appropriately in the detailed spreadsheet.

SCHERER DISMANTLEMENT STUDY

Concrete

One cubic yard of concrete in place weighs 3,950 pounds. One cubic yard becomes 1.3 cubic yards after demolition. Each load will contain 15.38 cubic yards (20 cu. yds./1.3) of in place concrete. 15.38 cubic yards weighs 61,000 pounds or 30.50 tons.

Truck Cost	\$125.00 / haul	X	1 haul	=	\$125.00
Tipping Fees	\$26.50 / ton	X	30.5 tons	=	808.25
Total Cost per round Trip					<u>\$933.25</u>

Cost per Cubic Yard	\$933.25 / 15.38 cubic yards =	\$60.68
Plus 10% contractor profit		6.07
Total Cost per Cubic Yard		<u>\$66.75</u>

Rounded Cost per Cubic Yard		<u>\$67.00</u>
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Insulation - Calcium Silicate (Non-Hazardous)

A trailer with a 40 cubic yard capacity is used for insulation because of its lighter weight. For purposes of this computation the dumpster is assumed to be 90% full (although the tipping fee is based on the assumption of 100% full truck - i.e., the weight to volume conversion uses 40 cubic yards - the full volume of the dumpster). A cubic yard of calcium silicate insulation weighs 121.5 pounds or .060750 tons. 40 cubic yards times .060750 tons/cubic yard = 2.43 tons. (The dumpster charge is the same regardless of whether capacity is 20, 30 or 40 CY.)

Dumpster Charge	\$125.00 / haul	X	1 haul	=	\$125.00
Tipping Fees	\$26.50 / ton	X	2.43 tons	=	64.40
Total Cost per round Trip					<u>\$189.40</u>

Cost per Cubic Yard	\$189.40 / 36 cubic yards =	\$5.26
Plus 10% contractor profit		0.53
Total Cost per Cubic Yard		<u>\$5.79</u>

Rounded Cost per Cubic Yard		<u>\$6.00</u>
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SCHERER DISMANTLEMENT STUDY

SALVAGE VALUE FACTORS

The salvage value factors, presented in dollars per ton, were provided by FPL's Investment Recovery Department. The list covers all salvageable materials recovered from FPL sites.

Iron & Steel	\$50 / ton
Stainless Steel	\$300 / ton
Aluminum (Sheet Metal)	\$540 / ton
Wire & Cable:	
- Insulated Copper	\$760 / ton
- Insulated Aluminum	\$600 / ton
Copper	\$710 / ton
Nickel Alloys	
- 70/30 Cupro-Nickel	\$1,490 / ton
- 80/20 Cupro-Nickel	\$1,250 / ton
- Monel	\$2,340 / ton
Admiralty Brass	\$540 / ton
Aluminum Brass	\$140 / ton
Titanium	\$1,320 / ton

OTHER SITE COSTS

Site Management Expenses

Site management expenses refer to FPL's management costs and contractors' expenses associated with the dismantlement project. The cost factors provided by FPL's Power Generation Services Department (PGS) are: FPL expenses of \$13,901 per month, both office and site, and contractor's expenses of \$17,923 per month. These expenses are to be incurred over the 24 month dismantlement period for the Scherer Plant. FPL's management costs include administration, engineering, permit costs and various other costs. Contractor's expenses include field management, supervision, security, etc..

Site Management Expenses per month	\$31,824
Number of months	24
Total Site Mangement Expenses	<u>\$763,776</u>

Intake & Discharge Backfill

FPL's PGS Department developed this cost factor on the basis of a typical such structure for FPL's production plants. The assumption is that a volume of 1,600 cubic yards for the intake and 1,120 cubic yards for the discharge will need to be filled. The cost for the intake is \$28,021 the cost for the discharge is \$22,237 making a total cost of:

\$50,258

SCHERER DISMANTLEMENT STUDY

Grading and Seeding

This cost refers to the restoration of the dismantled area to a green field area. The land is filled with sand, spread with topsoil and then seeded. The cost factor provided by PGS is \$40,229 per acre. The acreage was determined for each site by reviewing engineering drawings to determine the areas requiring this effort. Assumptions underlying this cost factor include 2,000 cubic yards per acre to be backfilled and 968 cubic yards per acre of topsoil to be spread and seeded.

Scherer Acreage to be graded and seeded
Cost Factor
Total Grading and Seeding Expense

900
\$40,229
\$36,206,100

SCHERER DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
SCHERER SITE COMMON										
(SUPPORTING UNITS 1 THROUGH 4)										
FERC Account 311										
Structures & Improvements										
Ponds										
Concrete - Spillway	CY	1	696.0	696.0	50.40	35,078	67.00	46,632	0.00	0
Subtotal						35,078		46,632		0
Ash Disposal Pond:										
Concrete - Spillway	CY	1	285.0	285.0	50.40	14,364	67.00	19,095	0.00	0
Subtotal						14,364		19,095		0
Maintenance Equipment Storage House										
Substructure Concrete	CY	1	84.0	84.0	50.40	4,234	67.00	5,628	0.00	0
Structural Steel	TN	1	15.0	15.0	125.40	1,881	0.00	0	50.00	750
Metal Siding	TN	1	1.1	1.1	269.80	297	0.00	0	50.00	55
Subtotal						6,412		5,628		805
Water Treatment Building										
Substructure Concrete	CY	1	3,400.0	3,400.0	50.40	171,360	67.00	227,800	0.00	0
Structural Steel	TN	1	220.0	220.0	125.40	27,588	0.00	0	50.00	11,000
Metal Siding	TN	1	16.0	16.0	269.80	4,317	0.00	0	50.00	800
Metal Wall Panel	TN	1	14.6	14.6	269.80	3,939	0.00	0	50.00	730
Masonry - Concrete Block	CY	1	200.0	200.0	20.16	4,032	67.00	13,400	0.00	0
Roof - Precast Concrete Roof Decking	CY	1	206.0	206.0	20.16	4,153	67.00	13,802	0.00	0
Other Superstructure Concrete	CY	1	450.0	450.0	20.16	9,072	67.00	30,150	0.00	0
Subtotal						224,461		285,152		12,530
Training Building										
Substructure Concrete	CY	1	230.0	230.0	50.40	11,592	67.00	15,410	0.00	0
Structural Steel	TN	1	40.0	40.0	125.40	5,016	0.00	0	50.00	2,000
Subtotal						16,608		15,410		2,000
Hydrogen House										
Substructure Concrete	CY	1	183.0	183.0	50.40	9,223	67.00	12,261	0.00	0
Precast Concrete Wall Panel	CY	1	223.3	223.3	20.16	4,502	67.00	14,961	0.00	0
Masonry - Concrete Block	CY	1	273.3	273.3	20.16	5,510	67.00	18,311	0.00	0
Roof - Precast Concrete Roof Decking	CY	1	217.8	217.8	20.16	4,391	67.00	14,593	0.00	0
Subtotal						23,626		60,126		0
Precipitator Control House										
Substructure Concrete	CY	1	611.0	611.0	50.40	30,794	67.00	40,937	0.00	0
Subtotal						30,794		40,937		0
Fire Protection Building										
Substructure Concrete - Valve House	CY	1	246.0	246.0	50.40	12,398	67.00	16,482	0.00	0
Substructure Concrete - Building #1	CY	1	261.0	261.0	50.40	13,154	67.00	17,487	0.00	0
Substructure Concrete - Building #2	CY	1	108.0	108.0	50.40	5,443	67.00	7,236	0.00	0
Masonry Block Building #1 & #2	CY	1	518.7	518.7	20.16	10,457	67.00	34,753	0.00	0
Precast Roof Panel - Building #1 & #2	CY	1	4.1	4.1	20.16	83	67.00	274	0.00	0
Subtotal						41,535		76,232		0

SCHERER DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Service Water Chlorine House										
Substructure Concrete	CY	1	186.0	186.0	50.40	9,374	67.00	12,462	0.00	0
Structural Steel	TN	1	22.0	22.0	125.40	2,759	0.00	0	50.00	1,100
Subtotal						12,133		12,462		1,100
Security Building										
Precast Concrete Wall Panel	CY	1	137.8	137.8	20.16	2,778	67.00	9,233	0.00	0
Masonry - Concrete Block	CY	1	141.7	141.7	20.16	2,857	67.00	9,494	0.00	0
Precast Concrete Roof Decking	CY	1	80.6	80.6	20.16	1,625	67.00	5,400	0.00	0
Subtotal						7,260		24,127		0
Well Pump House										
Substructure Concrete - Well Pump House	CY	1	22.0	22.0	50.40	1,109	67.00	1,474	0.00	0
Substructure Concrete - Pump House #2	CY	1	9.0	9.0	50.40	454	67.00	603	0.00	0
Structural Steel - Well Pump House	TN	1	3.0	3.0	125.40	376	0.00	0	50.00	150
Structural Steel - Pump House #2	TN	1	1.0	1.0	125.40	125	0.00	0	50.00	50
Precast Wall Panel - Well Pump	TN	1	100.0	100.0	269.80	26,980	0.00	0	0.00	0
Precast Roof - Well Pump House	CY	1	31.1	31.1	20.16	627	67.00	2,084	0.00	0
Concrete - Roof - Pump House #2	CY	1	2.0	2.0	20.16	40	67.00	134	0.00	0
Metal Siding - Pump House #2	TN	1	270.0	270.0	269.80	72,846	0.00	0	50.00	13,500
Subtotal						102,557		4,285		13,700
Lube Oil Storage House										
Substructure Concrete	CY	1	56.0	56.0	50.40	2,822	67.00	3,752	0.00	0
Structural Steel	TN	1	26.0	26.0	125.40	3,260	0.00	0	50.00	1,300
Precast Concrete Wall Panel	CY	1	146.7	146.7	20.16	2,957	67.00	9,829	0.00	0
Masonry - Concrete Block	CY	1	204.4	204.4	20.16	4,121	67.00	13,695	0.00	0
Precast Concrete Roof Decking	CY	1	63.1	63.1	20.16	1,272	67.00	4,228	0.00	0
Subtotal						14,432		31,504		1,300
Waste Water Control House										
Architectural Work:										
Masonry Block - House #1	CY	1	54.4	54.4	20.16	1,097	67.00	3,645	0.00	0
Masonry Block - House #2	CY	1	54.4	54.4	20.16	1,097	67.00	3,645	0.00	0
Precast Roof Panel - House #1	CY	1	35.6	35.6	20.16	718	67.00	2,385	0.00	0
Precast Roof Panel - House #2	CY	1	35.6	35.6	20.16	718	67.00	2,385	0.00	0
Subtotal						3,630		12,060		0
Air Compressor House										
Substructure Concrete	CY	1	50.0	50.0	50.40	2,520	67.00	3,350	0.00	0
Structural Steel	TN	1	12.0	12.0	125.40	1,505	0.00	0	50.00	600
Subtotal						4,025		3,350		600
River Intake Switchgear Building										
Substructure Concrete	CY	1	50.0	50.0	50.40	2,520	67.00	3,350	0.00	0
Structural Steel	TN	1	9.0	9.0	125.40	1,129	0.00	0	50.00	450
Masonry - Concrete Block	CY	1	33.3	33.3	20.16	671	67.00	2,231	0.00	0
Precast Concrete Wall Panel	CY	1	90.0	90.0	20.16	1,814	67.00	6,030	0.00	0
Precast Concrete Roof Decking	CY	1	57.2	57.2	20.16	1,153	67.00	3,832	0.00	0
Subtotal						7,287		15,443		450

SCHERER DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Nitrogen Storage Pad										
Substructure Concrete	CY	1	4.0	4.0	50.40	202	67.00	268	0.00	0
Subtotal						202		268		0
Sewage Treatment Facility										
Collection System Piping Concrete	CY	1	24.0	24.0	50.40	1,210	67.00	1,608	0.00	0
Subtotal						1,210		1,608		0
Utility Trench Concrete	CY	1	103.0	103.0	50.40	5,191	67.00	6,901	0.00	0
Waste Water Treatment System										
Concrete - Chemical Waste Basin	CY	1	440.0	440.0	50.40	22,176	67.00	29,480	0.00	0
Subtotal						22,176		29,480		0
Foundation:										
Concrete - Waste Water Basins	CY	1	1,275	1,275.0	50.40	64,260	67.00	85,425	0.00	0
Subtotal						64,260		85,425		0
Security Guard House										
Substructure Concrete	CY	1	43.0	43.0	50.40	2,167	67.00	2,881	0.00	0
Subtotal						2,167		2,881		0
Water Treatment Chlorine Storage House										
Structural Steel	TN	1	17.0	17.0	125.40	2,132	0.00	0	50.00	850
Precast Concrete Roof Decking	CY	1	69.4	69.4	20.16	1,399	67.00	4,650	0.00	0
Subtotal						3,531		4,650		850
Total Account 311						642,939		783,666		33,335
FERC Account 312										
Boiler Plant Equipment										
Auxiliary Boiler System										
Foundation Concrete	CY	1	20	20	50.40	1,008	67.00	1,340	0.00	0
Boiler	TN	2	328	656	125.40	82,262	0.00	0	50.00	32,800
Subtotal						83,270		1,340		32,800
Feedwater System:										
Pump	TN	3	23	69	167.20	11,537	0.00	0	50.00	3,450
4" Pipe	TN	1	2	2	167.20	334	0.00	0	50.00	100
Subtotal						11,871		0		3,550
Steam Distrib. System										
Piping - less than 4"	TN	1	3	3	167.20	502	0.00	0	50.00	150
8" Pipe	TN	1	5	5	167.20	836	0.00	0	50.00	250
10" Pipe	TN	1	14	14	167.20	2,341	0.00	0	50.00	700
14" Pipe	TN	1	85	85	167.20	14,212	0.00	0	50.00	4,250
16" Pipe	TN	1	4	4	167.20	669	0.00	0	50.00	200
Subtotal						18,560		0		5,550
Coal Handling System										

SCHERER DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Unloading Conveyors	TN	1	26	26	167.20	4,347	0.00	0	50.00	1,300
Conveyor Motors	TN	4	0	1	167.20	201	0.00	0	50.00	60
Structural Steel - Conveyor S1	TN	1	91	91	125.40	11,411	0.00	0	50.00	4,550
Structural Steel - Conveyor S2	TN	1	91	91	125.40	11,411	0.00	0	50.00	4,550
Metal Siding - Conveyor S1	TN	1	7	7	269.80	1,889	0.00	0	50.00	350
Metal Siding - Conveyor S2	TN	1	5	5	269.80	1,349	0.00	0	50.00	250
Metal Roofing - Conveyor S1	TN	1	6	6	269.80	1,619	0.00	0	50.00	300
Metal Roofing - Conveyor S2	TN	1	6	6	269.80	1,619	0.00	0	50.00	300
Foundation Concrete - Conveyor S1	CY	1	226	226	50.40	11,390	67.00	15,142	0.00	0
Foundation Concrete - Conveyor S2	CY	1	226	226	50.40	11,390	67.00	15,142	0.00	0
Tunnel - Conveyor S1	TN	1	470	470	167.20	78,584	0.00	0	50.00	23,500
Tunnel - Conveyor S2	TN	1	470	470	167.20	78,584	0.00	0	50.00	23,500
Conveyor Concrete - Superstructure (S1)	CY	1	26	26	50.40	1,310	67.00	1,742	0.00	0
Conveyor Concrete - Superstructure (S2)	CY	1	26	26	50.40	1,310	67.00	1,742	0.00	0
Conveyor S1	TN	1	15	15	167.20	2,508	0.00	0	50.00	750
Conveyor S2	TN	1	15	15	167.20	2,508	0.00	0	50.00	750
Motor	TN	2	3	5	167.20	836	0.00	0	50.00	250
Conveyor to Crshr Hse Concrete - Tunnel	CY	1	795	795	50.40	40,068	67.00	53,265	0.00	0
Subtotal						262,334		87,033		60,410
Coal Storage Area										
Unburned Coal	CY	1	35,000	35,000	0.00	0	4.00	140,000	0.00	0
Concrete - Pump Structure	CY	1	235	235	50.40	11,844	67.00	15,745	0.00	0
Concrete - Drainage Channel	CY	1	6,400	6,400	50.40	322,560	67.00	428,800	0.00	0
Concrete - Storage Pond	CY	1	5,635	5,635	50.40	284,004	67.00	377,545	0.00	0
Car Unloading Area Foundation Concrete	CY	1	10,920	10,920	50.40	550,368	67.00	731,640	0.00	0
Structural Metal - Grating	TN	1	50	50	167.20	8,360	0.00	0	50.00	2,500
Subtotal						1,177,136		1,693,730		2,500
Reclaim System										
Hopper & Tunnel Structure - Concrete	CY	1	1,070	1,070	50.40	53,928	67.00	71,690	0.00	0
Hopper & Trestle Concrete	CY	1	2,825	2,825	50.40	142,380	67.00	189,275	0.00	0
Tunnel - Concrete	CY	1	752	752	50.40	37,901	67.00	50,384	0.00	0
Structural Metal - Support Steel	TN	1	21	21	125.40	2,633	0.00	0	50.00	1,050
Reclaim Conveyor	LF	1	232	232	167.20	38,790	0.00	0	50.00	11,600
Motor	TN	2	1	2	167.20	334	0.00	0	50.00	100
Subtotal						275,966		311,349		12,750
Coal Handling Service Building										
Substructure Concrete - Building Found.	CY	1	1,273	1,273	50.40	64,159	67.00	85,291	0.00	0
Concrete - Paving	CY	1	2,050	2,050	50.40	103,320	67.00	137,350	0.00	0
Concrete - Ramp	CY	1	205	205	50.40	10,332	67.00	13,735	0.00	0
Structural Steel	TN	1	161	161	125.40	20,189	0.00	0	50.00	8,050
Precast Concrete Roof Decking	CY	1	903	903	20.16	18,211	67.00	60,521	0.00	0
Concrete - Roof	CY	1	229	229	20.16	4,617	67.00	15,343	0.00	0
Metal Siding	TN	1	16	16	269.80	4,317	0.00	0	50.00	800
Subtotal						225,145		312,240		8,850
Coal Handling Control House										
Substructure Concrete	CY	1	107	107	50.40	5,393	67.00	7,169	0.00	0
Structural Steel	TN	1	39	39	167.20	6,521	0.00	0	50.00	1,950

SCHERER DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Superstructure - Concrete	CY	1	36	36	50.40	1,814	67.00	2,412	0.00	0
Superstructure - Metal Siding	TN	1	6	6	269.80	1,541	0.00	0	50.00	286
Subtotal						15,269		9,581		2,236
Fuel Handling Railroad										
Trestles - Structural Steel	TN	1	995	995	125.40	124,773	0.00	0	50.00	49,750
Trestles - Concrete Abutment	CY	1	117	117	50.40	5,897	67.00	7,839	0.00	0
Trestles - Concrete Bents	CY	1	1,550	1,550	50.40	78,120	67.00	103,850	0.00	0
Grating	TN	1	50	50	167.20	8,360	0.00	0	50.00	2,500
Subtotal						217,150		111,689		52,250
Wet Ash Handling System - Transport System										
Supports - Concrete	CY	1	425	425	50.40	21,420	67.00	28,475	0.00	0
Piping - Grating	TN	1	80	80	167.20	13,376	0.00	0	50.00	4,000
Piping - Trench Concrete	CY	1	2,800	2,800	50.40	141,120	67.00	187,600	0.00	0
Subtotal						175,916		216,075		4,000
Control Air System										
Air Distrib System - Less than 4" Pipe	TN	1	34	34	167.20	5,685	0.00	0	50.00	1,700
Subtotal						5,685		0		1,700
Service Water System										
Service Water Pumping Substruct Concrete	CY	1	456	456	50.40	22,982	67.00	30,552	0.00	0
Masonry Wall	CY	1	25	25	20.16	504	67.00	1,675	0.00	0
Precast Concrete Roof Decking	CY	1	9	9	20.16	179	67.00	596	0.00	0
Less than 4" Pipe	TN	1	12	12	167.20	2,006	0.00	0	50.00	600
4" Pipe	TN	1	8	8	167.20	1,338	0.00	0	50.00	400
6" Pipe	TN	1	40	40	167.20	6,688	0.00	0	50.00	2,000
8" Pipe	TN	11	50	550	167.20	91,960	0.00	0	50.00	27,500
12" Pipe	TN	1	14	14	167.20	2,341	0.00	0	50.00	700
16" Pipe	TN	1	5	5	167.20	836	0.00	0	50.00	250
Subtotal						128,834		32,823		31,450
Chemical Waste Treatment System										
Sedimentation Tank	TN	6	4	23	167.20	3,812	0.00	0	50.00	1,140
Filtration Pump	TN	4	2	9	167.20	1,538	0.00	0	50.00	460
Subtotal						5,350		0		1,600
Total Account 312						2,602,486		2,775,860		219,646
FERC Account 314										
Turbogenerator Units										
Cooling Water System										
Cooling Water Dischrge Structure Concr	CY	1	810	810	50.40	40,824	67.00	54,270	0.00	0
Subtotal						40,824		54,270		0
Storage Water Intake Structure:										
Concrete	CY	1	948	948	50.40	47,779	67.00	63,516	0.00	0
Concrete - Deflector Wall	CY	1	144	144	20.16	2,903	67.00	9,648	0.00	0
Concrete - Superstructure	CY	1	325	325	20.16	6,552	67.00	21,775	0.00	0
Grating	TN	1	11	11	167.20	1,839	0.00	0	50.00	550

SCHERER DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Structural Steel	TN	1	17	17	125.40	2,132	0.00	0	50.00	850
Subtotal						61,205		94,939		1,400
Storage Water Supply System										
Pump	TN	4	5	18	167.20	3,010	0.00	0	50.00	900
Motor	TN	4	11	44	167.20	7,424	0.00	0	50.00	2,220
Subtotal						10,434		0		3,120
Storage Pond Intake Structure										
Intake Structure Concrete	CY	1	53	53	50.40	2,671	67.00	3,551	0.00	0
Grating	TN	1	3	3	167.20	502	0.00	0	50.00	150
Subtotal						3,173		3,551		150
Lifting System										
Overhead Crane	TN	1	198	198	125.40	24,829	0.00	0	50.00	9,900
Subtotal						24,829		0		9,900
Total Account 314						140,465		152,760		14,570
FERC Account 315										
Accessory Electrical Equipment										
A.C. System - 4kv										
Distribution System Switchgear Frame	TN	8	1	8	167.20	1,338	0.00	0	50.00	400
Total Account 315						1,338		0		400
FERC Account 316										
Miscellaneous Plant Equipment										
Station Maintenance Equipment	TN	1	0.50	1	167.20	84	0.00	0	50.00	25
Station Test Equipment	TN	1	0.50	1	167.20	84	0.00	0	50.00	25
Machine Shop Equipment	TN	1	0.50	1	167.20	84	0.00	0	50.00	25
Station Stores Equipment	TN	1	0.50	1	167.20	84	0.00	0	50.00	25
Training Equipment	TN	1	0.50	1	167.20	84	0.00	0	50.00	25
Plant Furnishings	TN	1	0.50	1	167.20	84	0.00	0	50.00	25
Site Support Mobile Equipment	TN	1	0.50	1	167.20	84	0.00	0	50.00	25
Total Account 316						588		0		175
TOTAL SCHERER SITE COMMON (SUPPORTING UNITS 1 THROUGH 4)						3,387,816		3,712,286		268,126
SCHERER UNITS 3 & 4 COMMON										
FERC Account 311										
Structures & Improvements										
Emergency Generator Building										
Substructure Concrete	CY	1	104.0	104.0	50.40	5,242	67.00	6,968	0.00	0
Structural Steel	TN	1	17.0	17.0	125.40	2,132	0.00	0	50.00	850
Metal Siding	TN	1	2,350.0	1.2	269.80	317	0.00	0	50.00	59
Masonry - Concrete Block	CY	1	136.7	136.7	20.16	2,756	67.00	9,159	0.00	0
Roof - Precast Concrete Roof Decking	CY	1	170.0	170.0	20.16	3,427	67.00	11,390	0.00	0
Subtotal						13,874		27,517		909

SCHERER DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Substructure Concrete - House #1	CY	1	187.0	187.0	50.40	9,425	67.00	12,529	0.00	0
Substructure Concrete - House #2	CY	1	187.0	187.0	50.40	9,425	67.00	12,529	0.00	0
Structural Steel - House #1	TN	1	27.0	27.0	125.40	3,386	0.00	0	50.00	1,350
Structural Steel - House #2	TN	1	27.0	27.0	125.40	3,386	0.00	0	50.00	1,350
Masonry Block - House #1	CY	1	245.0	245.0	20.16	4,939	67.00	16,415	0.00	0
Masonry Block - House #2	CY	1	215.6	215.6	20.16	4,346	67.00	14,445	0.00	0
Precast Wall Panel - House #1	CY	1	173.1	173.1	20.16	3,490	67.00	11,598	0.00	0
Precast Wall Panel - House #2	CY	1	173.1	173.1	20.16	3,490	67.00	11,598	0.00	0
Precast Roof Panel - House #1	CY	1	164.4	164.4	20.16	3,314	67.00	11,015	0.00	0
Precast Roof Panel - House #2	CY	1	164.4	164.4	20.16	3,314	67.00	11,015	0.00	0
Subtotal						48,515		101,144		2,700
Chem Wst Trmnt Contr Hse										
Substr Concrete	CY	1	12.0	12.0	50.40	605	67.00	804	0.00	0
Subtotal						605		804		0
Total Account 311						62,994		129,465		3,609
FERC Account 312										
Boiler Plant Equipment										
Lighter Oil System										
Fuel Supply Facilities, Lighter Oil System										
Fuel Supply Facils Foundation Concrete	CY	1	182.0	182.0	50.40	9,173	67.00	12,194	0.00	0
Fuel Storage Facils Foundation Concrete	CY	1	182.0	182.0	50.40	9,173	67.00	12,194	0.00	0
Subtotal						18,346		24,388		0
Fuel Storage Facilities										
Foundation	CY	1	50.0	50.0	50.40	2,520	67.00	3,350	0.00	0
Retaining Enclosure - Concrete	CY	1	630.0	630.0	50.40	31,752	67.00	42,210	0.00	0
Tank Demolition	TN	2	7.0	14.0	n/a	50,000	0.00	0	50.00	700
Soil Remediation					n/a	0	n/a	148,666	0.00	0
Clean Tank (11,900 bbl capacity)	BBL	2	1.0	2.0	n/a	0	n/a	13,000	0.00	0
Subtotal						84,272		207,226		700
Stack										
Subfoundation, Stack	CY	1	20,000.0	20,000.0	50.40	1,008,000	67.00	1,340,000	0.00	0
Concrete	CY	1	8,300.0	8,300.0	50.40	418,320	67.00	556,100	0.00	0
Steel Liner	TN	1	220.0	220.0	167.20	36,784	0.00	0	50.00	11,000
Subtotal						1,463,104		1,896,100		11,000
Coal Handling Switchgear House										
Subfound Wrk, Cl Hndlg Switchgear House										
Substructure Concrete	CY	1	195.0	195.0	50.40	9,828	67.00	13,065	0.00	0
Structural Steel	TN	1	22.0	22.0	167.20	3,678	0.00	0	50.00	1,100
Superstructure - Metal Siding	TN	1	3.6	3.6	269.80	983	0.00	0	50.00	182
Subtotal						14,489		13,065		1,282
Treated Water System										
Raw Water Supply Pump	TN	4	15.0	60.0	167.20	10,032	0.00	0	50.00	3,000
Water Treatment System - Tank	TN	1	9.0	9.0	167.20	1,505	0.00	0	50.00	450
4" Pipe	TN	1	14.0	14.0	167.20	2,341	0.00	0	50.00	700

SCHERER DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Subtotal						13,878		0		4,150
Chemical Storage Facilities:										
Tank Foundation Concrete	CY	1	320.0	320.0	50.40	16,128	67.00	21,440	0.00	0
Retaining Wall Concrete	CY	1	24.0	24.0	50.40	1,210	67.00	1,608	0.00	0
Less than 4" Pipe	TN	1	49.0	49.0	167.20	8,193	0.00	0	50.00	2,450
Subtotal						25,531		23,048		2,450
Condensate Storage & Transfer:										
Tank Foundation Concrete	CY	1	108.0	108.0	50.40	5,443	67.00	7,236	0.00	0
Tank	TN	4	60.0	240.0	167.20	40,128	0.00	0	50.00	12,000
Piping - Trench Concrete	CY	1	120.0	120.0	50.40	6,048	67.00	8,040	0.00	0
Pump	TN	4	1.8	7.2	167.20	1,204	0.00	0	50.00	360
Water Treatment Pump	TN	4	1.5	6.0	167.20	1,003	0.00	0	50.00	300
Water Treatment Tank	TN	2	6.5	13.0	167.20	2,174	0.00	0	50.00	650
Subtotal						56,000		15,276		13,310
Filtered Water System										
Supply system Piping:										
Less than 4" Pipe	TN	1	4.0	4.0	167.20	669	0.00	0	50.00	200
4" Pipe	TN	1	6.0	6.0	167.20	1,003	0.00	0	50.00	300
6" Pipe	TN	1	18.0	18.0	167.20	3,010	0.00	0	50.00	900
Subtotal						4,682		0		1,400
Filtered Water Storage System:										
Foundation Concrete	CY	1	50.0	50.0	50.40	2,520	67.00	3,350	0.00	0
Tank	TN	1	52.0	52.0	167.20	8,694	0.00	0	50.00	2,600
Subtotal						11,214		3,350		2,600
Total Account 312						1,691,516		2,182,453		36,892
FERC Account 314										
Turbogenerator Equipment										
Lube Oil System										
Oil Storage Tank		2	14.0	28.0	n/a	5,000	n/a	0	50.00	1,400
Soil Remediation		1			n/a	0	n/a	2,262		
Tank Cleaning		1			n/a	0	n/a	4,480		
Oil Storage Tank Foundation Concrete		1	64.0	64.0	n/a	5,513	n/a	0	0.00	0
Subtotal						10,513		6,742		1,400
Total Account 314						10,513		6,742		1,400
TOTAL SCHERER UNITS 3 & 4 COMMON						1,765,023		2,318,660		41,901
SCHERER UNIT 4										
FERC Account 311										
Structures & Improvements										
Architectural										
Grating	TN	1	95.0	95.0	167.20	15,884	0.00		50.00	4,750
Masonry Block - MCC Room	CY	1	31.2	31.2	20.16	629	67.00	2,090	0.00	0
Masonry Block - Battery Room	CY	1	49.3	49.3	20.16	994	67.00	3,303	0.00	0

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Metal Panel - Operator Floor	CY	1	5.5	5.5	269.80	1,484	0.00	0	50.00	275
Metal Panel - Switchgear Room	CY	1	8.5	8.5	269.80	2,293	0.00	0	50.00	425
Superstructure - Concrete Roof	CY	1	586.0	586.0	20.16	11,814	67.00	39,262	0.00	0
Subtotal						33,098		44,655		5,450
Fire Protection System - Piping	TN	1	12.0	12.0	167.20	2,006	0.00		50.00	600
Steam Generator Building										
Grating	TN	1	920.0	920.0	269.80	248,216	0.00	0	50.00	46,000
Masonry Block - Restrooms	CY	1	32.2	32.2	20.16	649	67.00	2,157	0.00	0
Metal Panel - Compressor Room	TN	1	3.7	3.7	269.80	998	0.00	0	50.00	185
Metal Panel - Elevator Encl	TN	1	16.9	16.9	269.80	4,560	0.00	0	50.00	845
Metal Panel - Water Analysis Room	TN	1	5.2	5.2	269.80	1,403	0.00	0	50.00	260
Metal Panel - Operator FI Encl	TN	1	3.5	3.5	269.80	944	0.00	0	50.00	175
Metal Panel - Air Compr Room	TN	1	5.3	5.3	269.80	1,430	0.00	0	50.00	265
Accoustical Panel - Fan Room	TN	1	12.1	12.1	269.80	3,265	0.00	0	50.00	605
Metal Panel - HVAC Room	TN	1	4.3	4.3	269.80	1,160	0.00	0	50.00	215
Metal Panel - MCC Room	TN	1	1.2	1.2	269.80	324	0.00	0	50.00	60
Subtotal						262,949		2,157		48,610
Superstructure										
Metal Panel - Record Storage Room	TN	1	2.9	2.9	269.80	782	0.00	0	50.00	145
Metal Panel - LightingMCC Room	TN	1	0.9	0.9	269.80	243	0.00	0	50.00	45
Metal Panel - Tripper Room	TN	1	36.1	36.1	269.80	9,740	0.00	0	50.00	1,805
Metal Panel - Cable Spread Room	TN	1	7.4	7.4	269.80	1,997	0.00	0	50.00	370
Subtotal						12,762		0		2,365
Coal Bunker	TN	1	1,895.0	1,895.0	125.40	237,633	0.00	0	50.00	94,750
Superstructure Concrete										
Roof - Concrete	CY	1	1,520.0	1,520.0	20.16	30,643	67.00	101,840	0.00	0
Subtotal						30,643		101,840		0
Fire Protection System										
Less than 4" Pipe	TN	1	5.0	5.0	167.20	836	0.00	0	50.00	250
4" Pipe	TN	1	3.0	3.0	167.20	502	0.00	0	50.00	150
6" Pipe	TN	1	13.0	13.0	167.20	2,174	0.00	0	50.00	650
8" Pipe	TN	1	13.0	13.0	167.20	2,174	0.00	0	50.00	650
10" Pipe	TN	1	9.0	9.0	125.40	1,129	0.00	0	50.00	450
Subtotal						6,815		0		2,150
Environmental Monitoring Facility										
Concrete Substructure	CY	1	14.0	14.0	20.16	282	67.00	938		0
Subtotal						282		938		0
Total Account 311						586,188		149,590		153,925
FERC Account 312										
Boiler Plant Equipment										
Steam Generating System										
Boiler Enclosure										

SCHERER DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Boiler	TN	1	14,506.0	14,506.0	125.40	1,819,052	0.00	0	50.00	725,300
Boiler Setting Insulation	CY	1	3,300.0	3,300.0	38.00	125,400	6.00	19,800	0.00	0
Air Heaters Casing	TN	1	1,122.0	1,122.0	167.20	187,598	0.00	0	50.00	56,100
Subtotal						2,132,050		19,800		781,400
Seal Air System:										
Seal Air System Fan	TN	2	35.0	70.0	167.20	11,704	0.00	0	50.00	3,500
Boiler Intake Ductwork	TN	1	800.0	800.0	167.20	133,760	0.00	0	50.00	40,000
Boiler Exhaust Ductwork	TN	1	845.0	845.0	167.20	141,284	0.00	0	50.00	42,250
Gas Recirculation Ductwork	TN	1	816.0	816.0	167.20	136,435	0.00	0	50.00	40,800
Gas Recircul. Fan	TN	1	46.0	46.0	167.20	7,691	0.00	0	50.00	2,300
Gas Recircul. Fan Drive	TN	1	12.0	12.0	167.20	2,006	0.00	0	50.00	600
Soot Blowers	TN	182	0.2	36.0	167.20	6,019	0.00	0	50.00	1,800
Subtotal						438,899		0		131,250
Boiler Water Circulating System										
Boiler Water Circulation Pump	TN	4	31.0	124.0	167.20	20,733	0.00	0	50.00	6,200
Subtotal						20,733		0		6,200
Pulverized Coal Firing System										
Boiler Burners	TN	9	0.5	4.5	167.20	752	0.00	0	50.00	225
Pulverizer	TN	9	23.0	207.0	125.40	25,958	0.00	0	50.00	10,350
Motor - 600 hp (7 ea) & 800 hp (2 ea)	TN	9	3.8	34.2	167.20	5,718	0.00	0	50.00	1,710
Foundation Concrete	CY	1	208.0	208.0	50.40	10,483	67.00	13,936	0.00	0
Coal Feeders	TN	9	5.0	45.0	125.40	5,643	0.00	0	50.00	2,250
Subtotal						48,554		13,936		14,535
Primary Air System:										
Primary Air Ductwork	TN	1	845.0	845.0	167.20	141,284	0.00	0	50.00	42,250
Fan	TN	2	66.0	132.0	167.20	22,070	0.00	0	50.00	6,600
Motor	TN	2	30.3	60.6	167.20	10,132	0.00	0	50.00	3,030
Foundation Concrete	CY	1	95.0	95.0	50.40	4,788	67.00	6,365	0.00	0
Coal Firing System Piping	TN	1	17.0	17.0	167.20	2,842	0.00	0	50.00	850
Coal Firing System Hoist	TN	19	26.0	494.0	167.20	82,597	0.00	0	50.00	24,700
Subtotal						263,713		6,365		77,430
Lighter Oil System										
Igniters	TN	72	0.2	14.4	167.20	2,408	0.00	0	50.00	720
Fuel Supply Motor	TN	2	0.4	0.8	269.80	216	0.00	0	50.00	40
Piping	TN	1	7.0	7.0	269.80	1,889	0.00	0	50.00	350
Subtotal						4,513		0		1,110
Fuel Storage Facilities, Lighter Oil System										
Fuel Storage Pump	TN	2	1.5	3.0	269.80	809	0.00	0	50.00	150
Fuel Storage Piping - 3"	TN	1	3.0	3.0	269.80	809	0.00	0	50.00	150
Feedwater Motor	TN	1	9.9	9.9	167.20	1,655	0.00	0	50.00	495
Subtotal						3,273		0		795
Boiler Plant Equipment										
Blowdown Piping										
Blowdown Piping - Less than 4" Pipe	TN	1	14.0	14.0	269.80	3,777	0.00	0	50.00	700

SCHERER DISMANTLEMENT STUDY

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Blowdown Piping -6" Pipe	TN	1	3.0	3.0	167.20	502	0.00	0	50.00	150
Blowdown Piping -12" Pipe	TN	1	6.0	6.0	125.40	752	0.00	0	50.00	300
Blowdown Piping -16" Pipe	TN	1	8.0	8.0	125.40	1,003	0.00	0	50.00	400
Blowdown Piping -24" Pipe	TN	1	30.0	30.0	125.40	3,762	0.00	0	50.00	1,500
Subtotal						9,796		0		3,050
Draft System										
Precipitators Foundation - Concrete	CY	4	185.0	740.0	50.40	37,296	67.00	49,580	0.00	0
Precipitators Drainage Slab - Concrete	CY	1	830.0	830.0	50.40	41,832	67.00	55,610	0.00	0
Precipitator	TN	4	1,915.0	7,660.0	125.40	960,564	0.00	0	50.00	383,000
Precipitator Structural Steel	TN	1	410.0	410.0	125.40	51,414	0.00	0	50.00	20,500
Precipitator Grating	TN	1	25.0	25.0	269.80	6,745	0.00	0	50.00	1,250
Forced Draft Fan Outlet Ductwork	TN	1	80.0	80.0	167.20	13,376	0.00	0	50.00	4,000
Forced Draft Fan Foundation	CY	1	25.0	25.0	50.40	1,260	67.00	1,675	0.00	0
Forced Draft Fan Support Steel	TN	1	150.0	150.0	125.40	18,810	0.00	0	50.00	7,500
Precip. Inlet Ductwork	TN	1	783.0	783.0	167.20	130,918	0.00	0	50.00	39,150
Precip. Foundation Support Steel	TN	1	200.0	200.0	125.40	25,080	0.00	0	50.00	10,000
Precip. Foundation Concrete	CY	1	200.0	200.0	50.40	10,080	67.00	13,400	0.00	0
Precip. Outlet Ductwork	TN	1	427.0	427.0	167.20	71,394	0.00	0	50.00	21,350
Precip. Ductwork Foundation - Concrete	CY	1	100.0	100.0	50.40	5,040	67.00	6,700	0.00	0
Precip. Ductwork Support Steel	TN	1	400.0	400.0	125.40	50,160	0.00	0	50.00	20,000
Induced Draft Ductwork	TN	1	684.0	684.0	167.20	114,365	0.00	0	50.00	34,200
ID Fan Ductwork Foundation - Concrete	CY	1	100.0	100.0	50.40	5,040	67.00	6,700	0.00	0
ID Fan Ductwork FndIn - Support Steel	TN	1	531.0	531.0	125.40	66,587	0.00	0	50.00	26,550
Ductwork System Insulation	CY	1	450.0	450.0	38.00	17,100	6.00	2,700	0.00	0
Subtotal						1,627,061		136,365		567,500
Forced Draft Fans & Drives, Draft System										
Forced Draft Fans	TN	4	62.5	250.0	167.20	41,800	0.00	0	50.00	12,500
Forced Draft Fan Motors	TN	4	16.1	64.4	167.20	10,768	0.00	0	50.00	3,220
Forced Draft Fan Foundation - Concrete	CY	1	4.0	4.0	50.40	202	67.00	268	0.00	0
Subtotal						52,770		268		15,720
Induced Draft Fans										
Fans	TN	4	282.0	1,128.0	167.20	188,602	0.00	0	50.00	56,400
Induced Draft Fan Motors	TN	4	22.0	88.0	167.20	14,714	0.00	0	50.00	4,400
Subtotal						203,316		0		60,800
Transfer Conveyor										
Magnetic Separator	TN	1	3.0	3.0	125.40	376	0.00	0	50.00	150
Subtotal						376		0		150
Conveyor to Crusher House:										
Support Steel	TN	1	155.0	155.0	125.40	19,437	0.00	0	50.00	7,750
Conveyor Foundation - Concrete	CY	1	212.0	212.0	50.40	10,685	67.00	14,204	0.00	0
Conveyor - Concrete Superstructure	CY	1	84.0	84.0	20.16	1,693	67.00	5,628	0.00	0
Conveyor - Metal Roofing	TN	1	9.0	9.0	167.20	1,505	0.00	0	50.00	450
Conveyor - Metal Siding	TN	1	15.0	15.0	167.20	2,508	0.00	0	50.00	750
Conveyor - Motor	TN	1	1.6	1.6	167.20	268	0.00	0	50.00	80
Subtotal						36,096		19,832		9,030

SCHERER DISMANTLEMENT STUDY

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Boiler Plant Equipment										
Conveyor to Powerhouse:										
Support Steel	TN	1	308.0	308.0	125.40	38,623	0.00	0	50.00	15,400
Conveyor - Metal Roofing	TN	1	12.0	12.0	167.20	2,006	0.00	0	50.00	600
Conveyor - Metal Siding	TN	1	20.0	20.0	167.20	3,344	0.00	0	50.00	1,000
Conveyor - Motor	TN	1	1.7	1.7	167.20	284	0.00	0	50.00	85
Subtotal						44,257		0		17,085
Tripper Conveyor:										
Motor	TN	3	1,562.0	4,686.0	167.20	783,499	0.00	0	50.00	234,300
Carriage	TN	1	2.0	2.0	167.20	334	0.00	0	50.00	100
Subtotal						783,833		0		234,400
Crushing System										
Crusher	TN	1	26.0	26.0	167.20	4,347	0.00	0	50.00	1,300
Crusher Motor	TN	1	9.4	9.4	167.20	1,572	0.00	0	710.00	6,674
Subtotal						5,919		0		7,974
Sampling System (Sampler & Control Instl)	TN	1	7.0	7.0	167.20	1,170	0.00		50.00	350
Coal Handling Motor Control House										
Substructure Concrete	CY	1	70.0	70.0	50.40	3,528	67.00	4,690	0.00	0
Structural Steel	TN	1	8.0	8.0	125.40	1,003	0.00	0	50.00	400
Roof Decking Concrete	CY	1	117.8	117.8	20.16	2,375	67.00	7,893	0.00	0
Wall Panel Concrete	CY	1	191.1	191.1	20.16	3,853	67.00	12,804	0.00	0
Subtotal						10,759		25,387		400
Coal Handling Crusher House										
Substructural Concrete	CY	1	295.0	295.0	50.40	14,868	67.00	19,765	0.00	0
Structural Steel	TN	1	194.0	194.0	125.40	24,328	0.00	0	50.00	9,700
Subtotal						39,196		19,765		9,700
Architectural Work - Superstructure:										
Masonry - Concrete Block	CY	1	161.1	161.1	20.16	3,248	67.00	10,794	0.00	0
Concrete	CY	1	85.0	85.0	20.16	1,714	67.00	5,695	0.00	0
Metal Siding	TN	1	12.0	12.0	167.20	2,006	0.00	0	50.00	600
Subtotal						6,968		16,489		600
Wet Ash Handling System										
Pyrite Hopper	TN	2	2.4	4.8	167.20	803	0.00	0	50.00	240
4" & 12" Pipe	TN	1	3.0	3.0	167.20	502	0.00	0	50.00	150
Subtotal						1,305		0		390
Boiler Bottom Ash Removal System:										
Clinker Grinder	TN	4	3.0	12.0	125.40	1,505	0.00	0	50.00	600
Piping - 4"	TN	1	4.0	4.0	167.20	669	0.00	0	50.00	200
Piping - 6"	TN	1	4.0	4.0	167.20	669	0.00	0	50.00	200
Piping - 8"	TN	1	30.0	30.0	167.20	5,016	0.00	0	50.00	1,500
Piping - Ash 10"	TN	1	24.0	24.0	125.40	3,010	0.00	0	50.00	1,200
Piping - 12"	TN	1	3.0	3.0	125.40	376	0.00	0	50.00	150
Air Separator & Tank	TN	1	2.0	2.0	167.20	334	0.00	0	50.00	100

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Transport System - Pump	TN	6	15.2	91.2	167.20	15,249	0.00	0	50.00	4,560
Transport System - Motor	TN	6	5.2	31.2	167.20	5,217	0.00	0	50.00	1,560
Subtotal						32,045		0		10,070
Boiler Plant Equipment										
Sluice Water System										
Less than 4" Pipe	TN	1	8.0	8.0	167.20	1,338	0.00	0	50.00	400
4" Pipe	TN	1	7.0	7.0	167.20	1,170	0.00	0	50.00	350
6" Pipe	TN	1	8.0	8.0	167.20	1,338	0.00	0	50.00	400
10" Pipe	TN	1	13.0	13.0	125.40	1,630	0.00	0	50.00	650
12" Pipe	TN	1	5.0	5.0	125.40	627	0.00	0	50.00	250
Lifting System Motor	TN	2	1.1	2.2	167.20	368	0.00	0	50.00	110
Lifting System Hoist	TN	1	18.0	18.0	167.20	3,010	0.00	0	50.00	900
Subtotal						9,481		0		3,060
Control Air System:										
Air Dryer	TN	1	9.7	9.7	167.20	1,622	0.00	0	50.00	485
Compressor	TN	1	6.0	6.0	167.20	1,003	0.00	0	50.00	300
Subtotal						2,625		0		785
Air Distribution System - Piping:										
Less than 4" Pipe	TN	1	37.0	37.0	167.20	6,186	0.00	0	50.00	1,850
4" Pipe	TN	1	2.0	2.0	167.20	334	0.00	0	50.00	100
8" Pipe	TN	1	5.0	5.0	167.20	836	0.00	0	50.00	250
Subtotal						7,356		0		2,200
Plant Service Water System										
Plant Service Water Pump	TN	1	22.0	22.0	167.20	3,678	0.00	0	50.00	1,100
Motor	TN	1	14.4	14.4	167.20	2,408	0.00	0	50.00	720
Subtotal						6,086		0		1,820
Piping, Main line:										
Less than 4" Pipe	TN	1	3.0	3.0	167.20	502	0.00	0	50.00	150
4" Pipe	TN	1	6.0	6.0	167.20	1,003	0.00	0	50.00	300
6" Pipe	TN	1	18.0	18.0	167.20	3,010	0.00	0	50.00	900
10" Pipe	TN	1	12.0	12.0	125.40	1,505	0.00	0	50.00	600
12" Pipe	TN	1	4.0	4.0	125.40	502	0.00	0	50.00	200
16" Pipe	TN	1	5.0	5.0	125.40	627	0.00	0	50.00	250
Subtotal						7,149		0		2,400
Main Turbine Steam System										
Main Steam Piping:										
18" Pipe	TN	1	11.0	11.0	125.40	1,379	0.00	0	50.00	550
22" Pipe	TN	1	105.0	105.0	125.40	13,167	0.00	0	50.00	5,250
28" Pipe	TN	1	202.0	202.0	125.40	25,331	0.00	0	50.00	10,100
Subtotal						39,877		0		15,900
Hot Reheat Piping:										
32" Pipe	TN	1	224.0	224.0	125.40	28,090	0.00	0	50.00	11,200
42" Pipe	TN	1	193.0	193.0	125.40	24,202	0.00	0	50.00	9,650
Subtotal						52,292		0		20,850

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Cold Reheat Piping:										
32 3/4" Pipe	TN	1	60.0	60.0	125.40	7,524	0.00	0	50.00	3,000
42" Pipe	TN	1	76.0	76.0	125.40	9,530	0.00	0	50.00	3,800
Subtotal						17,054		0		6,800
Main Steam Bypass System Piping:										
12" Pipe	TN	1	13.0	13.0	125.40	1,630	0.00	0	50.00	650
24" Pipe	TN	1	65.0	65.0	125.40	8,151	0.00	0	50.00	3,250
Subtotal						9,781		0		3,900
Extraction Steam System										
8" Pipe	TN	1	3.0	3.0	167.20	502	0.00	0	50.00	150
12" Pipe	TN	1	8.0	8.0	125.40	1,003	0.00	0	50.00	400
Subtotal						1,505		0		550
LP Heater Steam Piping:										
18" Pipe	TN	1	4.0	4.0	125.40	502	0.00	0	50.00	200
24" Pipe	TN	1	9.0	9.0	125.40	1,129	0.00	0	50.00	450
26" Pipe	TN	1	5.0	5.0	125.40	627	0.00	0	50.00	250
30" Pipe	TN	1	11.0	11.0	125.40	1,379	0.00	0	50.00	550
36" Pipe	TN	1	12.0	12.0	125.40	1,505	0.00	0	50.00	600
42" Pipe	TN	1	12.0	12.0	125.40	1,505	0.00	0	50.00	600
54" Pipe	TN	1	10.0	10.0	125.40	1,254	0.00	0	50.00	500
Subtotal						7,901		0		3,150
Soot Blower Steam Piping:										
Less than 4" Pipe	TN	1	2.0	2.0	167.20	334	0.00	0	50.00	100
4" Pipe	TN	1	21.0	21.0	167.20	3,511	0.00	0	50.00	1,050
6" Pipe	TN	1	7.0	7.0	167.20	1,170	0.00	0	50.00	350
Subtotal						5,015		0		1,500
Air Heater Steam Piping:										
Less than 4" Pipe	TN	1	1.0	1.0	167.20	167	0.00	0	50.00	50
6" Pipe	TN	1	2.0	2.0	167.20	334	0.00	0	50.00	100
10" Pipe	TN	1	9.0	9.0	125.40	1,129	0.00	0	50.00	450
Subtotal						1,630		0		600
Deaerator Steam Piping:										
18" Pipe	TN	1	12.0	12.0	125.40	1,505	0.00	0	50.00	600
24" Pipe	TN	1	3.0	3.0	125.40	376	0.00	0	50.00	150
Subtotal						1,881		0		750
Turbine Gland Seal System Piping:										
Less than 4" Pipe	TN	1	1.0	1.0	167.20	167	0.00	0	50.00	50
4" Pipe	TN	1	4.0	4.0	167.20	669	0.00	0	50.00	200
18" Pipe	TN	1	12.0	12.0	125.40	1,505	0.00	0	50.00	600
24" Pipe	TN	1	3.0	3.0	125.40	376	0.00	0	50.00	150
Subtotal						2,717		0		1,000
Vent & Drain Systems										

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Boiler Vent Piping:										
Less than 4" Pipe	TN	1	41.0	41.0	167.20	6,855	0.00	0	50.00	2,050
6" Pipe	TN	1	24.0	24.0	167.20	4,013	0.00	0	50.00	1,200
10" Pipe	TN	1	8.0	8.0	125.40	1,003	0.00	0	50.00	400
12" Pipe	TN	1	4.0	4.0	125.40	502	0.00	0	50.00	200
16" Pipe	TN	1	42.0	42.0	125.40	5,267	0.00	0	50.00	2,100
18" Pipe	TN	1	14.0	14.0	125.40	1,756	0.00	0	50.00	700
20" Pipe	TN	1	50.0	50.0	125.40	6,270	0.00	0	50.00	2,500
30" Pipe	TN	1	5.0	5.0	125.40	627	0.00	0	50.00	250
Subtotal						26,293		0		9,400
High Pressure Heater Vent & Drain System:										
6" Pipe	TN	1	7.0	7.0	167.20	1,170	0.00	0	50.00	350
Subtotal						1,170		0		350
Low Pressure Heater Vent & Drain System:										
Less than 4" Pipe	TN	1	27.0	27.0	167.20	4,514	0.00	0	50.00	1,350
6" Pipe	TN	1	4.0	4.0	167.20	669	0.00	0	50.00	200
8" Pipe	TN	1	3.0	3.0	167.20	502	0.00	0	50.00	150
10" Pipe	TN	1	4.0	4.0	125.40	502	0.00	0	50.00	200
12" Pipe	TN	1	17.0	17.0	125.40	2,132	0.00	0	50.00	850
Subtotal						8,319		0		2,750
Steam Vent And Drain System										
Steam Vent	TN	3	6.0	18.0	167.20	3,010	0.00	0	50.00	900
Subtotal						3,010		0		900
Condensate Vent & Drain System										
Condensate Vent Pipe - 6" [& 18"]	TN	1	7.0	7.0	167.20	1,170	0.00	0	50.00	350
Subtotal						1,170		0		350
Condensate System:										
Less than 4" Pipe	TN	1	11.0	11.0	167.20	1,839	0.00	0	50.00	550
6" Pipe	TN	1	32.0	32.0	167.20	5,350	0.00	0	50.00	1,600
10" Pipe	TN	1	2.0	2.0	125.40	251	0.00	0	50.00	100
14" Pipe	TN	1	4.0	4.0	125.40	502	0.00	0	50.00	200
16" Pipe	TN	1	59.0	59.0	125.40	7,399	0.00	0	50.00	2,950
20" Pipe	TN	1	29.0	29.0	125.40	3,637	0.00	0	50.00	1,450
24" Pipe	TN	1	2.0	2.0	125.40	251	0.00	0	50.00	100
36" Pipe	TN	1	5.0	5.0	125.40	627	0.00	0	50.00	250
Subtotal						19,856		0		7,200
Boiler Plant Piping System Insulation	CY	1	45	45.0	38.00	1,710	6.00	270	0.00	0
Low Pressure Heaters, Condensate System										
Low Pressure Heaters	TN	4	39.3	157.2	167.20	26,284	0.00	0	50.00	7,860
Subtotal						26,284		0		7,860
Deaerator & Tank, Condensate System										
Deaerator	TN	1	9.0	9.0	167.20	1,505	0.00	0	50.00	450
Steel	TN	1	6.0	6.0	167.20	1,003	0.00	0	50.00	300

SCHERER DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Deaerator Storage Tank	TN	1	78.0	78.0	167.20	13,042	0.00	0	50.00	3,900
Steel	TN	1	8.0	8.0	167.20	1,338	0.00	0	50.00	400
Insulation & Lagging	CY	1	8.0	8.0	38.00	304	6.00	48	0.00	0
Subtotal						17,192		48		5,050
Condensate Pumps & Drives										
Condensate Pump	TN	3	8.0	24.0	167.20	4,013	0.00	0	50.00	1,200
Condensate Motor	TN	3	8.0	24.0	167.20	4,013	0.00	0	50.00	1,200
Subtotal						8,026		0		2,400
Condensate Auxiliary Systems										
Chemical Feed System Pump	TN	8	0.3	2.4	167.20	401	0.00	0	50.00	120
Subtotal						401		0		120
Chemical Feed Piping:										
Less than 4" Pipe	TN	1	34.0	34.0	167.20	5,685	0.00	0	50.00	1,700
10" Pipe	TN	1	55.0	55.0	125.40	6,897	0.00	0	50.00	2,750
12" Pipe	TN	1	42.0	42.0	125.40	5,267	0.00	0	50.00	2,100
Subtotal						17,849		0		6,550
Spray Water System Piping:										
6" Pipe	TN	1	5.0	5.0	167.20	836	0.00	0	50.00	250
8" Pipe	TN	1	4.0	4.0	167.20	669	0.00	0	50.00	200
12" Pipe	TN	1	6.0	6.0	125.40	752	0.00	0	50.00	300
14" Pipe	TN	1	5.0	5.0	125.40	627	0.00	0	50.00	250
Subtotal						2,884		0		1,000
Feedwater System										
Feedwater Piping:										
12" Pipe	TN	1	3.0	3.0	125.40	376	0.00	0	50.00	150
16" Pipe	TN	1	23.0	23.0	125.40	2,884	0.00	0	50.00	1,150
18" Pipe	TN	1	19.0	19.0	125.40	2,383	0.00	0	50.00	950
20" Pipe	TN	1	4.0	4.0	125.40	502	0.00	0	50.00	200
28" Pipe	TN	1	11.0	11.0	125.40	1,379	0.00	0	50.00	550
Subtotal						7,524		0		3,000
High Pressure Heaters, Feedwater System										
High Pressure Heater	TN	4	55.0	220.0	167.20	36,784	0.00	0	50.00	11,000
Subtotal						36,784		0		11,000
Feedwater Pumps & Drives, Feedwater System										
Feedwater Pump	TN	1	15.0	15.0	125.40	1,881	0.00	0	50.00	750
Turbine Drives	TN	2	55.5	111.0	125.40	13,919	0.00	0	50.00	5,550
Subtotal						15,800		0		6,300
Feedwater Auxiliary System										
Feedwater Minimum Flow Lines - Piping:										
4" Pipe	TN	1	3.0	3.0	167.20	502	0.00	0	50.00	150
6" Pipe	TN	1	11.0	11.0	167.20	1,839	0.00	0	50.00	550
Subtotal						2,341		0		700

SCHERER DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Feedwater System Insulation	CY	1	35.0	35.0	38.00	1,330	6.00	210	0.00	0
Lube Oil System										
Piping - Less than 4"	TN	1	6.0	6.0	167.20	1,003	0.00	0	50.00	300
Pump	TN	2	4.5	9.0	167.20	1,505	0.00	0	50.00	450
Filter	TN	2	4.0	8.0	167.20	1,338	0.00	0	50.00	400
Subtotal						3,846		0		1,150
Feedwater Pmp Turb Oil Sys, Lube Oil System										
Fdwtr Pump Turb Oil Pipe - Less than 4"	TN	1	1.0	1.0	167.20	167	0.00	0	50.00	50
Nitrogen System										
Less Than 4" Pipe	TN	1	3.0	3.0	167.20	502	0.00	0	50.00	150
10" Pipe	TN	1	2.0	2.0	125.40	251	0.00	0	50.00	100
Subtotal						753		0		250
Total Account 312						6,141,661		258,735		2,081,584
FERC Account 314										
Turbogenerator Units										
Turbine Generator System										
Foundation - Concrete	CY	1	3,435.0	3,435.0	50.40	173,124	67.00	230,145	0.00	0
Subtotal						173,124		230,145		0
Turbine Generator										
Section Casing or Shell	TN	1	815.0	815.0	95.00	77,425	0.00	0	50.00	40,750
Generator Copper	TN	1	127.6	127.6	400.00	51,040	0.00	0	710.00	90,596
Turbine System Insulation	CY	1	10.0	10.0	38.00	380	6.00	60	0.00	0
Subtotal						128,845		60		131,346
Turbine Drain System:		1								
Less than 4" Pipe	TN	1	3.0	3.0	167.20	502	0.00	0	50.00	150
Subtotal						502		0		150
Generator Cooling & Purge System										
Generator Purge Piping - less than 4"	TN	1	41.0	41.0	167.20	6,855	0.00	0	50.00	2,050
Subtotal						6,855		0		2,050
Condensing System										
Condenser Casing	TN	1	756.0	756.0	167.20	126,403	0.00	0	50.00	37,800
Subtotal						126,403		0		37,800
Condenser Connections Piping:										
6" Pipe	TN	1	3.0	3.0	167.20	502	0.00	0	50.00	150
8" Pipe	TN	1	4.0	4.0	167.20	669	0.00	0	50.00	200
12" Pipe	TN	1	6.0	6.0	125.40	752	0.00	0	50.00	300
24" Pipe	TN	1	2.0	2.0	125.40	251	0.00	0	50.00	100
Subtotal						2,174		0		750
Vacuum System Piping:										
8" Pipe	TN	1	5.0	5.0	167.20	836	0.00	0	50.00	250

SCHERER DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
10" Pipe	TN	1	7.0	7.0	125.40	878	0.00	0	50.00	350
Vacuum System Pump	TN	3	11.7	35.1	125.40	4,402	0.00	0	50.00	1,755
Vacuum System Motor	TN	3	5.2	15.6	125.40	1,956	0.00	0	50.00	780
Subtotal						8,072		0		3,135
Cooling Water Pumps & Drives										
Cooling Water Pumps	TN	2	6.5	13.0	125.40	1,630	0.00	0	50.00	650
Cooling Water Motors	TN	2	25.7	51.4	125.40	6,446	0.00	0	50.00	2,570
Foundation Concrete C W Pumps & Drives	CY	1	23.0	23.0	50.40	1,159	67.00	1,541	0.00	0
Subtotal						9,235		1,541		3,220
Cooling Tower										
Substructure Concrete - Reinf	CY	1	14,924.3	14,924.3	50.40	752,183	67.00	999,926	0.00	0
Concrete	CY	1	6,499.8	6,499.8	20.16	131,036	67.00	435,488	0.00	0
Subtotal						883,219		1,435,414		0
Cooling Tower Equipment										
Piping:										
16" Pipe	TN	1	13.0	13.0	125.40	1,630	0.00	0	50.00	650
36" Pipe	TN	1	219.0	219.0	125.40	27,463	0.00	0	50.00	10,950
Subtotal						29,093		0		11,600
Lube Oil System:										
Turbine Generator Oil Filtrng Unit	TN	1	40.0	40.0	167.20	6,688	0.00	0	50.00	2,000
Lube Oil Piping - less than 4"	TN	1	2.0	2.0	269.80	540	0.00	0	50.00	100
Lube Oil Piping - 4" Pipe	TN	1	6.0	6.0	167.20	1,003	0.00	0	50.00	300
Lube Oil Pump	TN	3	3.3	9.9	167.20	1,655	0.00	0	50.00	495
Lube Oil Piping Insulation	CY	1	20.0	20.0	38.00	760	6.00	120	0.00	0
Subtotal						10,546		120		2,895
Total Account 314						1,378,168		1,667,280		192,946
FERC Account 315										
Accessory Elec Equip										
Cable										
Power/Control/Lighting Cable	TN	1	297.9	297.9	456.00	135,842	0.00	0	760.00	226,404
Raceway Conduit - Aluminum	TN	1	141.5	141.5	269.80	38,177	0.00	0	540.00	76,410
Cabletray - Aluminum	TN	1	30.5	30.5	269.80	8,229	0.00	0	540.00	16,470
Subtotal						182,248		0		319,284
Bus Eqpmnt & Suppts, Gener Bus Sys										
Bus	TN	1	9.2	9.2	125.40	1,154	0.00	0	50.00	460
Subtotal						1,154		0		460
A.C. System - 120/208v:										
Distribution Panel	TN	28	1.0	28.0	269.80	7,554	0.00	0	50.00	1,400
Distribution Switchgear	TN	4	2.5	10.0	269.80	2,698	0.00	0	50.00	500
Subtotal						10,252		0		1,900
A.C. System - 480v										
Motor Control Center	TN	3	2.5	7.5	167.20	1,254	0.00	0	50.00	375

SCHERER DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Panel	TN	1	0.5	0.5	167.20	84	0.00	0	50.00	25
Switchgear	TN	3	10.0	30.0	125.40	3,762	0.00	0	50.00	1,500
Subtotal						5,100		0		1,900
Transformer System										
Transformer - Power/Lighting	TN	20	1.0	20.0	125.40	2,508	0.00	0	50.00	1,000
Copper	TN	1	5.6	5.6	300.00	1,680	0.00	0	710.00	3,976
Subtotal						4,188		0		4,976
Distribution System AC System - 277/480v										
Circuit Breaker - AC System 277/480v	TN	1	1.2	1.2	167.20	201	0.00	0	50.00	60
Switchgear - AC System 277/480v	TN	1	3.0	3.0	125.40	376	0.00	0	50.00	150
Subtotal						577		0		210
A.C. System - 4kv:										
Distribution Switchgear										
Transformer - Station Service	TN	2	50.4	100.8	125.40	12,640	0.00	0	50.00	5,040
Transformer Copper	TN	2	35.4	70.8	300.00	21,240	0.00	0	710.00	50,268
Transformer - Startup Station Service	TN	1	59.7	59.7	125.40	7,486	0.00	0	50.00	2,985
Transformer Copper	TN	1	41.6	41.6	300.00	12,480	0.00	0	710.00	29,536
Subtotal						53,846		0		87,829
A.C. System - 6.9kv:										
Bus Section - Station Service Bus	TN	1	12.5	12.5	456.00	5,700	0.00	0	50.00	625
Switchgear Frame	TN	1	100.0	100.0	125.40	12,540	0.00	0	50.00	5,000
Transformer - Startup Station Service	TN	1	39.0	39.0	125.40	4,891	0.00	0	50.00	1,950
Transformer Copper	TN	1	27.0	27.0	300.00	8,100	0.00	0	710.00	19,170
Subtotal						31,231		0		26,745
Total Account 315						288,596		0		443,304
FERC Account 316										
Misc Plant Equip										
Central Vacuum Cleaning System										
Pump	TN	2	3.5	7.0	167.20	1,170	0.00	0	50.00	350
Less than 4" Pipe	TN	1	5.0	5.0	167.20	836	0.00	0	50.00	250
4" Pipe	TN	1	23.0	23.0	167.20	3,846	0.00	0	50.00	1,150
8" Pipe	TN	1	10.0	10.0	167.20	1,672	0.00	0	50.00	500
Total Account 316						7,524		0		2,250
TOTAL SCHERER UNIT 4						8,402,137		2,075,605		2,874,009
Scherer Common (supporting units 1 through 4)										
FERC Account 353										
Station Equipment										
Main Power Transformer	TN	3	312.5	937.5	125.40	117,563	0.00	0	50.00	46,875
Main Power Transformer - Copper	TN	1	136.5	136.5	300.00	40,950	0.00	0	710.00	96,915
Total Account 353						158,513		0		143,790
GRAND TOTAL SCHERER						13,713,489		8,106,551		3,327,828

ST. JOHNS RIVER POWER PARK

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St. Johns River Power Park

The St. Johns River Power Park (SJRPP) Plant is jointly owned by the Jacksonville Electric Authority, 80% ownership share and Florida Power & Light Company, 20% ownership share. The site is located in the northeast section of the City of Jacksonville in Duvall County, Florida. Both Units No. 1 and No. 2 are coal fired units arranged for semi-outdoor operation. A common unloading bay is located between and joins the Unit No. 1 and Unit No. 2 turbine buildings. The control building, a five (5) story common facility is located between Units No. 1 and 2. The two units have a combined maximum generator nameplate rating of 1,358 megawatts. Units No. 1 and 2 went into commercial operation during 1987 and 1988, respectively.

Two hyperbolic natural draft cooling towers, one for each unit, are located northeast of the Unit No. 2 turbine building. The coal handling system includes a rotary rail car dumper equipped with a static weight scale, a train positioner, a type 410 stainless steel receiving bin, four short belt feeders, a cross conveyor, two series arranged elevating conveyors, a belt scale, and two magnetic separators.

The 20% ownership share noted above has been used to determine Florida Power & Light Company's share of the responsibility for the cost of dismantlement of the St. Johns River Power Park Units.

Florida Power & Light company last requested and received approval for a change in dismantlement accruals for the St. Johns River Power Park Units (including Common and Gypsum and Fly Ash Handling Facilities) in Docket No. 941343-EI, Order No. PSC-95-1532-FOF-EI issued on December 12, 1995. These rates became effective as of January 1, 1995.

ST. JOHNS RIVER POWER PARK
SUMMARY OF DISMANTLEMENT COSTS

FERC Account	Description	Removal Cost (A)	Removal Cost at 20%	Disposal Cost (B)	Disposal Cost at 20%	Salvage Value (C)	Salvage Value at 20%	Total (D)=(A + B - C)	FPL's 20% Portion (E)=(D) * .2
<u>SJRPP Common Plant</u>									
<u>Production Plant</u>									
311	Improvements to Site	1,775,151	355,030	2,047,858	409,572	258,739	51,748	3,564,270	712,854
312	Boiler Plant Equipment	1,002,416	200,483	1,793,140	358,628	20,819	4,164	2,774,736	554,947
315	Accessory Electrical Equipment	516,684	103,337	155,688	31,138	559,111	111,822	113,261	22,652
316	Misc. Power Plant Equipment	22,584	4,517	0	0	8,518	1,704	14,066	2,813
	Subtotal	3,316,835	663,367	3,996,686	799,337	847,187	169,437	6,466,333	1,293,267
<u>Transmission Plant</u>									
352	Substation Equipment	196,626	39,325	280,738	56,148	2,276	455	475,089	95,018
	Subtotal	196,626	39,325	280,738	56,148	2,276	455	475,089	95,018
<u>Other Site Costs:</u>									
	Site Management Expenses	763,776	152,755					763,776	152,755
	Intake & Discharge Backfill	28,021	5,604					28,021	5,604
	Grading & Seeding	15,717,470	3,143,494					15,717,470	3,143,494
	Subtotal	16,509,267	3,301,853	0	0	0	0	16,509,267	3,301,853
	Total	20,022,728	4,004,546	4,277,424	855,485	849,462	169,892	23,450,689	4,690,138
	Contingency - 16%	3,203,636	640,727	684,388	136,878			3,888,024	777,605
	Total SJRPP Common Excluding Unusable M&S	23,226,364	4,645,273	4,961,812	992,362	849,462	169,892	27,338,714	5,467,743
	Unusable M&S Inventory	8,936,510	1,787,302			1,340,477	268,095	7,596,034	1,519,207
	Total SJRPP Common Including Unusable M&S	32,162,874	6,432,575	4,961,812	992,362	2,189,939	437,988	34,934,747	6,986,949
<u>SJRPP Units 1 & 2</u>									
311	Improvements to Site	3,155,489	631,098	3,053,378	610,676	389,517	77,903	5,819,350	1,163,870
312	Boiler Plant Equipment	12,149,880	2,429,976	3,281,256	656,251	3,455,754	691,151	11,975,382	2,395,076
314	Turbogenerator Units	5,504,588	1,100,918	5,127,475	1,025,495	622,644	124,529	10,009,418	2,001,884
315	Accessory Electrical Equipment	2,547,050	509,410	1,190,358	238,072	2,170,576	434,115	1,566,832	313,366
316	Misc. Power Plant Equipment	40,953	8,191	28,080	5,616	6,608	1,322	62,425	12,485
353	Switchyard	470,595	94,119	129,246	25,849	685,927	137,185	(86,085)	(17,217)
	Subtotal	23,868,556	4,773,711	12,809,792	2,561,958	7,331,026	1,466,205	29,347,322	5,869,464
	Contingency - 16%	3,818,969	763,794	2,049,567	409,913			5,868,536	1,173,707
	Total SJRPP Units 1 & 2	27,687,524	5,537,505	14,859,359	2,971,872	7,331,026	1,466,205	35,215,857	7,043,171
<u>SJRPP Coal and Limestone Handling</u>									
311	Improvements to Site	368,089	73,618	502,169	100,434	11,987	2,397	858,271	171,654
312	Boiler Plant Equipment	4,029,983	805,997	2,578,979	515,796	825,900	165,180	5,783,062	1,156,612
315	Accessory Electrical Equipment	337,450	67,490	2,396	479	103,687	20,737	236,160	47,232
	Subtotal	4,735,522	947,104	3,083,543	616,709	941,573	188,315	6,877,492	1,375,498
	Contingency - 16%	757,684	151,537	493,367	98,673			1,251,051	250,210
	Total SJRPP Coal and Limestone Handling	5,493,206	1,098,641	3,576,910	715,382	941,573	188,315	8,128,543	1,625,709
<u>SJRPP Ash and Gypsum Handling</u>									
312	Boiler Plant Equipment	1,037,248	207,450	1,121,007	224,201	99,659	19,932	2,058,595	411,719
	Contingency - 16%	165,960	33,192	179,361	35,872			345,321	69,064
	Total SJRPP Ash and Gypsum Handling	1,203,208	240,642	1,300,368	260,074	99,659	19,932	2,403,916	480,783
	Total Dismantlement Costs	66,546,812	13,309,362	24,698,449	4,939,690	10,562,198	2,112,440	80,683,064	16,136,613

**ST. JOHNS RIVER POWER PARK
DISMANTLEMENT COST FOR INFLATION PROJECTION**

Description	Labor (A)	Material & Equipment (B)	Burial (C)	Salvage (D)	Total (A) + (B) + (C) - (D)
SJRPP Common - FPL's Portion	2,787,164	3,645,411	992,362	437,988	6,986,949
SJRPP Units 1 & 2	3,322,503	2,215,002	2,971,872	1,466,205	7,043,171
SJRPP Coal & Limestone Handling	659,185	439,456	715,382	188,315	1,625,709
SJRPP Gypsum & Ash Handling	144,385	96,257	260,074	19,932	480,783
Total	6,913,236	6,396,126	4,939,690	2,112,440	16,136,613

Labor is 60% of Removal Cost from Summary of Dismantlement Costs.
 Material & Equipment is 40% of Removal Cost from Summary of Dismantlement Costs.
 Burial is 100% of Disposal Cost from Summary of Dismantlement Costs.
 Salvage is 100% of Salvage from Summary of Dismantlement Costs.

ST JOHNS RIVER POWER PARK DISMANTLEMENT ASSUMPTIONS

FPL and the Jacksonville Electric Authority (JEA) are joint owners of St. Johns River Power Park Units 1 and 2 and related Common Facilities. Contractually each co-owner is responsible for his share of all decommissioning costs.

FPL will provide management personnel for the dismantlement effort.

FPL will prepare the request for proposal package and solicit bids for the decommissioning effort.

FPL will provide site security during the dismantlement.

FPL will hire a demolition contractor to perform the actual dismantling work. This contractor will have the salvage rights to all plant equipment and structural material.

The land will be made available for future use.

All dismantling work will be done in accordance with OSHA regulations.

The lube oil storage tanks will be cleaned and their contents disposed of according to the requirements of current regulations.

The following items will be removed:

- a. All structures, equipment, and concrete pads, pedestals, foundations, etc.;
- b. All underground gas, oil, sewer and water piping and electrical conduits (underground concrete piping to be collapsed);
- c. All hazardous and contaminated materials, e.g., acid filled lead batteries, oil tank residue.

Discussions with FPL's Power Generation Services Department (PGS) indicate that the return of the site to a green field condition entails removal of all structures above the wood pilings and steel-encased concrete pilings. The removal of the pilings would be unfeasible and, therefore, will remain in place.

The turbine pedestals and chimney will be control-blasted.

Scrap will be unprepared, i.e., cut only to the extent required to load the pieces on scrap dealers' trailers. Trucking costs for removal are paid by the scrap dealer and are reflected in the salvage value paid.

The estimate does not reflect land value or its resale.

The productivity factors employed are assumed valid for purposes of this study.

A contingency of 16% has been applied to the total removal and disposal costs. This contingency percentage covers costs associated with delays occurring after dismantlement begins, due to such causes as equipment failure and weather delays.

The costs of such overhead items as project management, site security, etc., have been estimated by FPL's PGS Department. These costs are listed on the cost summary pages for each site's dismantlement study.

All materials and equipment are assumed to be either fully salvageable or to be disposed of completely. The availability of powerful cutting shears makes possible the cutting of even the heaviest steel to a size that permits salvage as scrap. Any unusable materials and supplies inventory will be sold as scrap. Estimated balances of such inventory (with an assumption of a 15% salvage value) have been included on the cost summary pages for each site's dismantlement study.

St Johns River Power Park's railroad spur will be removed. However, line items for removal, disposal and salvage of rail, cross-ties, etc. are not included in this study. Contractors that perform track removal will generally take up the track, dispose of the cross-ties and keep the rails, spikes and other salvageable material as payment.

The coal and limestone yards are lined with impermeable vinyl to prevent any seepage into the ground soil; further, it is assumed that coal and limestone stockpiles will have been consumed virtually in their entirety at the termination of power generation; plant operations personnel will dispose of any coal, limestone, gypsum or ash that may remain.

A 30% swell factor is used to compute the disposal cost per cubic yard of concrete. One cubic yard of concrete becomes 1.3 cubic yards of concrete rubble after demolition.

The switchyard and ancillary equipment (FERC account 353) will remain in place with the exception of the main power transformers, oil circuit breakers, superstructures, and foundations associated with the tie-in of plant generated power in the switchyard.

The turbine pedestals and chimneys will be control-blasted.

Transformer and circuit breaker insulating oils are assumed not to contain PCB's. Therefore, the transformers and oil circuit breakers will be salvageable.

It is assumed that dismantlement activity at St Johns River plant will begin five years after end of service. The end of service dates used for this assumption conform to the economic recovery period ending dates used in the St. Johns River plant depreciation study filed as of year end 1997.

St. Johns River Power Park Units 1 and 2 and all common facilities are asbestos free.

DISMANTLING ACTIVITIES: COAL FIRED PLANTS

- Remove loose equipment, furniture, and spare parts.
- Drain liquids, drum-up, and dispose of drums.
- Remove solid and liquid waste from waste treatment processing areas – landfilled material, precipitated material in ponds and tanks, contaminated resins and reactants.
- Strip all insulation and covering, package and remove to acceptable landfill.
- Collapse circulating water lines. Remove underground piping and backfill all trenches.
- Remove main steam, hot and cold piping, downcomers, valves and supports, pumps, motors, generator auxiliary equipment, feedwater heaters, soot blowers, and condensers.
- Remove makeup structure, equipment, pumps, piping and valves.
- Remove systems that must be completed prior to the start of the boiler removal, including lube oil pumps, all piping, instrument and electrical systems.
- Remove forced drafts and induced draft ductwork, air heaters and fans.
- Remove hoppers, burners, upper and lower headers, manways, and waterwalls.
- Remove heavy steel structures and above ground steel – precut key members, lower and cut at ground level
- Remove fire protection, building heating, compressors, air dryers, control equipment and electrical systems.
- Disassemble crane, boiler feed pumps, and turbine generator.
- Separate scrap metals, and remove to scrap yard.
- Remove and dispose of miscellaneous rubble.
- Remove turbine pedestals, foundations, and heavy concrete structures and buildings, stack foundations, equipment foundations, and substructures. Remove to landfill.
- Install environmental monitoring equipment, such as at wells.
- Remove switchyard electrical equipment, structures and foundations.
- Cut off piles and remove pile caps. Remove concrete encased duct banks and underground piping.
- Remove railroad tracks.
- Backfill, site grading, seeding and mulching.
- Test and remove contaminated soil/bases – all areas.

DISMANTLING ACTIVITIES: COAL FIRED PLANTS

(Continued)

- Install environmental monitoring equipment such as wells.
- Remove or improve remaining site facilities such as buildings, fences, parking areas in accordance with local code and regulations.
- Install/modify existing site storm water runoff system.
- Remove switchyard electrical equipment, structures, and foundations. Modify services to remaining occupied structures as required.
- Remove gas supply metering site, valve stations, underground distribution system.
- Backfill, site grading, seeding, mulching.
- Remove solid and liquid wastes from waste treatment processing areas – landfilled material, precipitated material in ponds and tanks, contaminated resins and reactants.
- Remove marine facilities such as fuel unloading docks, equipment, bridges, and dams.
- Cut and remove fuel oil tanks, piping, valves, and supports.
- Remove top soil/gravel, backfill, and remove barrier wall foundation.

ST. JOHNS RIVER POWER PARK DISMANTLEMENT STUDY

DEVELOPMENT OF COST FACTORS

Cost factors have been developed to compute the net salvage value of the demolition of the St. Johns River Units. The net salvage value of the demolition is the net of: the removal and disposal cost and the salvage value of equipment and steel not disposed of. These factors provide a unit cost or value for removal, disposal and salvage of a given unit of measure of the component materials of which a power plant is constructed. The assumption is that the cost or value per unit of a given component can be multiplied by the quantity of that component in the plant to calculate a total cost or value for removal, disposal, or salvage of that component.

REMOVAL COST FACTORS

The removal cost factors developed for this study have two elements: a burdened labor rate and productivity factor. The burdened labor rate multiplied by the productivity factor yields the removal cost factor. The labor rates used in this study were developed by FPL's Power Generation Services Department (PGS). The crew rate per man-hour is for a crew consisting of six journeymen laborers, one laborer foreman and one heavy equipment operator - a typical crew for demolition work. The rate includes the cost per man-hour of a Trojan 3500Z front end loader with a four yard bucket, and an American 9310, two hundred twenty-five ton crane with a two hundred foot boom. The productivity factors employed, e.g., the number of man-hours required to remove a given unit of measure of concrete, were developed by an engineering consulting firm. These factors are assumed valid for purposes of this study.

Labor Rate

Labor rates are based on Means Union wages for 1998. The rates are adjusted to reflect non-union crews and factored to the geographical location of the site. Wage rates are based on a 40 hour work week.

Labor	\$22.57	X	6	=	\$135.40
Foreman	\$28.99	X	1	=	\$28.99
Heavy Equipment Operator	\$27.03	X	1	=	\$27.03
Total Cost per hour of 8 man crew					<u>\$191.42</u>

Cost per man hour $\$191.42 / 8 =$ \$23.93

Equipment Rate

The equipment rate is based on the following equipment:

Excavator	14,968.30
Front End Loader	5,092.50
Cutting Equipment	200.00
Total per month	<u>\$20,261</u>

$\$20,261 / 176$ hours per month = 115.12

Cost per man hour	$\$115.12 / 8 =$	\$14.39
Plus: amount for small tools		0.80
Total Cost per man hour		<u><u>\$15.19</u></u>

ST. JOHNS RIVER POWER PARK DISMANTLEMENT STUDY

Equipment & Labor Summary

Labor	\$23.93
Equipment	15.19
Total	<u>\$39.12</u>
 Rounded	 <u>\$39.00</u>
 For Concrete demolition add \$4.00 per hour additional equipment charge.	 <u>\$43.00</u>

The Removal Cost Factor is the product of the productivity factor for removal of a particular component multiplied by the total burdened hourly labor rate. The removal cost factors for all materials to be removed from FPL's sites are as follows:

<u>Components</u>	<u>Hourly Rate</u>	<u>Productivity Factor</u>	<u>Removal Factor</u>
Extra Heavy Steel (1)	\$39.00	2.50 MH / Ton	\$97.50 / Ton
Heavy Steel (2)	\$39.00	3.30 MH / Ton	\$128.70 / Ton
General Steel	\$39.00	4.40 MH / Ton	\$171.60 / Ton
Light Steel	\$39.00	7.10 MH / Ton	\$276.90 / Ton
Concrete	\$43.00	0.48 MH / CY	\$20.64 / CY
Reinforced Concrete	\$43.00	1.20 MH / CY	\$51.60 / CY
Copper-Elect. Cable & Generator Leads	\$39.00	12.00 MH / Ton	\$468.00 / Ton
Copper - Generator			\$400.00 / Ton
Copper - Transformer			\$300.00 / Ton
General Insulation	\$39.00	1.00 MH / CY	\$39.00 / CY
Inground Pipe-Metal(3)	\$39.00	6.00 MH / Ton	\$234.00 / Ton
Concrete Pipe (collapsed)	\$43.00	4.60 MH / Ton	\$197.80 / Ton

- (1) Includes turbine generator.
- (2) Includes parts of the steam generator, pipe larger than 8 inches.
- (3) Includes cost to backfill the trenches.

DISPOSAL COST FACTORS

Three cost factors were developed to compute the cost of disposal of non-hazardous wastes at the Nine Mile Landfill near SJRPP. Concrete and calcium silicated insulation are non-hazardous wastes. The tipping fee is \$31/ton. The dumpster cost, including driver, is \$150 per haul for a 20 cubic yard dumpster, \$200 per haul for a 40 cubic yard dumpster.

Cost factors were also developed to compute the cost of removal and disposal of oil tanks, including the cost of related soil remediation. Such costs are computed for each tank in FPL's system, and are located appropriately in the detailed spreadsheet.

ST. JOHNS RIVER POWER PARK DISMANTLEMENT STUDY

Concrete

One cubic yard of concrete in place weighs 3,950 pounds. One cubic yard becomes 1.3 cubic yards after demolition. Each load will contain 15.4 cubic yards (20 cu. yds./1.3) of in place concrete. 15.4 cubic yards weighs 61,000 pounds or 30.50 tons.

Truck Cost	\$150.00 / haul		1 haul	=	150.00
Tipping Fees	\$31.00 / ton	X	30.5 tons	=	945.50
Total Cost per round Trip					<u>\$1,095.50</u>

Cost per Cubic Yard	\$1,095.50 / 15.4 cubic yards =				\$71.14
Plus 10% contractor profit					7.11
Total Cost per Cubic Yard					<u>\$78.25</u>

Rounded Cost per Cubic Yard					<u>\$78.00</u>
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Insulation - Calcium Silicate (Non-Hazardous)

A trailer with a 40 cubic yard capacity is used for insulation because of its lighter weight. For purposes of this computation the dumpster is assumed to be 90% full (although the tipping fee is based on the assumption of 100% full truck - i.e., the weight to volume conversion uses 40 cubic yards - the full volume of the dumpster). A cubic yard of calcium silicate insulation weighs 121.5 pounds or .060750 tons. 40 cubic yards times .060750 tons/cubic yard = 2.43 tons.

Truck Cost	\$200.00 / haul	X	1 haul	=	200.00
Tipping Fees	\$31.00 / ton	X	2.43 tons	=	75.33
Total Cost per round Trip					<u>\$275.33</u>

Cost per Cubic Yard	\$275.33 / 36 cubic yards =				\$7.65
Plus 10% contractor profit					0.76
Total Cost per Cubic Yard					<u>\$8.41</u>

Rounded Cost per Cubic Yard					<u>\$8.00</u>
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ST. JOHNS RIVER POWER PARK DISMANTLEMENT STUDY

SALVAGE VALUE FACTORS

The salvage value factors, presented in dollars per ton, were provided by FPL's Investment Recovery Department. The list covers all salvageable materials recovered from FPL sites.

Iron & Steel	\$50 / ton
Stainless Steel	\$300 / ton
Aluminum (Sheet Metal)	\$540 / ton
Wire & Cable:	
- Insulated Copper	\$760 / ton
- Insulated Aluminum	\$600 / ton
Copper	\$710 / ton
Nickel Alloys	
- 70/30 Cupro-Nickel	\$1,490 / ton
- 80/20 Cupro-Nickel	\$1,250 / ton
- Monel	\$2,340 / ton
Admiralty Brass	\$540 / ton
Aluminum Brass	\$140 / ton
Titanium	\$1,320 / ton

OTHER SITE COSTS

Site Management Expenses

Site management expenses refer to FPL's management costs and contractors' expenses associated with the dismantlement project. The cost factors provided by FPL's Power Generation Services Department (PGS) are: FPL expenses of \$13,901 per month, both office and site, and contractor's expenses of \$17,923 per month for site indirect costs. These expenses are to be incurred over the 24 month dismantlement period for St. Johns Plant FPL's management costs include administration, engineering, permit costs and various other costs. Contractor's expenses include field management, supervision, security and other costs.

Site Management Expenses per month	\$31,824
Number of months	24
Total Site Management Expenses	<u>\$763,776</u>

Intake & Discharge Backfill

FPL's PGS Department developed this cost factor on the basis of a typical such structure for FPL's production plants. The assumption is that a volume of 1,600 cubic yards for the intake and 1,120 cubic yards for the discharge will need to be filled. The cost to back-fill the Intake is \$28,021, to back-fill the discharge is \$22,237. (St. Johns uses cooling towers and thus has no discharge.) The backfill cost is computed as follows:

	<u>Cost/Unit</u>	<u>Quantity</u>	<u>Totals</u>
Intake	\$28,021	1	\$28,021
Discharge	\$22,237	0	\$0
			<u>\$28,021</u>

ST. JOHNS RIVER POWER PARK DISMANTLEMENT STUDY

Grading and Seeding

This cost refers to the restoration of the dismantled area to a green field area. The land is filled with sand, spread with topsoil and then seeded. The cost factor provided by PGS is \$40,229 per acre. The acreage was determined for each site by reviewing engineering drawings to determine the areas requiring this effort. Assumptions underlying this cost factor include 2,000 cubic yards per acre to be backfilled and 968 cubic yards per acre of topsoil to be spread and seeded.

St. John's Acreage to be graded and seeded	390.70
Cost Factor	<u>\$40,229</u>
Total Grading and Seeding Expense	<u><u>\$15,717,470</u></u>

ST. JOHNS RIVER POWER PARK

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Compo- nents	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
ST. JOHNS SITE COMMON										
FERC Account 311										
Improvements to Site										
Yard Structures										
Roads (asphalt 81,290 sy)	CY	1	4,512.00	4,512.00	20.64	93,128	78.00	351,936	0.00	0
Parking (asphalt 1,945 sy)	CY	1	107.00	107.00	20.64	2,208	78.00	8,346	0.00	0
Yard Lighting Foundations - Reinf Concrete	CY	1	253.00	253.00	51.60	13,055	78.00	19,734	0.00	0
Yard Light Poles (180) - Aluminum	TN	1	45.00	45.00	276.90	12,461	0.00	0	540.00	24,300
Railroad Crossover Walkway - Struc Steel	TN	1	12.00	12.00	128.70	1,544	0.00	0	50.00	600
RR Crossover Walkway - Handrailing, Platforms	TN	1	2.00	2.00	276.90	554	0.00	0	50.00	100
Bulk Gas Storage Foundation - Reinf Conc	CY	1	18.00	18.00	51.60	929	78.00	1,404	0.00	0
Bulk Gas Storage - Support Steel & Tanks	TN	1	14.67	14.67	171.60	2,517	0.00	0	50.00	734
Bulk Gas Piping, Vlvs Under 4" - Steel	TN	1	9.53	9.53	276.90	2,639	0.00	0	50.00	477
Pipe Rack Foundations - Reinforced Concrete	CY	1	525.00	525.00	51.60	27,090	78.00	40,950	0.00	0
Hydrazine Storage Tank - Steel	TN	1	4.19	4.19	171.60	719	0.00	0	50.00	210
New Lube Oil Storage Tank - Steel	TN	1	3.57	3.57	171.60	613	0.00	0	50.00	179
Used Lube Oil Storage Tank - Steel	TN	1	4.99	4.99	171.60	856	0.00	0	50.00	250
Lube Oil Storage Shed Foundation - Reinf Conc	CY	1	20.07	20.07	51.60	1,036	78.00	1,565	0.00	0
Lube Oil Storage Shed - Structural Steel	TN	1	7.00	7.00	128.70	901	0.00	0	50.00	350
Lube Oil Storage Shed - Steel Siding	TN	1	1.00	1.00	171.60	172	0.00	0	50.00	50
Sewage Treatment Plant - Steel Plate	TN	1	6.73	6.73	171.60	1,155	0.00	0	50.00	337
Sewage Treatment Plant Fndation - Reinf Conc	CY	1	44.44	44.44	51.60	2,293	78.00	3,466	0.00	0
Subtotal						163,869		427,402		27,584
Waste Water Treatment Area										
Waste Water Treatment Area - Structural Steel	TN	1	21.00	21.00	128.70	2,703	0.00	0	50.00	1,050
WWT Bldg Siding/ Roofing - Steel (11,400 sf)	TN	1	14.25	14.25	171.60	2,445	0.00	0	50.00	713
Waste Water Treatment Area - Misc. Steel	TN	1	24.00	24.00	276.90	6,646	0.00	0	50.00	1,200
WWT Area - Tank Walkway Platforms/ Ladders	TN	1	30.00	30.00	276.90	8,307	0.00	0	50.00	1,500
WWT Area/ Bldg Foundations - Reinf Concrete	CY	1	2,754.00	2,754.00	51.60	142,106	78.00	214,812	0.00	0
WWT Bldg Interior Walls - Concrete Block	CY	1	12.59	12.59	20.64	260	78.00	982	0.00	0
WWT Building - Floccpress Unit	TN	2	7.60	15.20	171.60	2,608	0.00	0	50.00	760
WWT Building - Floccpress Unit Conveyor	TN	1	2.00	2.00	171.60	343	0.00	0	50.00	100
Lime Storage Silo - Steel	TN	1	14.22	14.22	128.70	1,830	0.00	0	50.00	711
Lime Handling Equipment - Steel	TN	1	5.00	5.00	171.60	858	0.00	0	50.00	250
Reaction Tank/ Agitator - Steel	TN	2	8.92	17.84	171.60	3,061	0.00	0	50.00	892
Influent Distrib Structure/ I-beam Supports	TN	1	5.95	5.95	171.60	1,021	0.00	0	50.00	298
Reactor Clarifier Tank/ Agitator - Steel	TN	2	35.80	71.60	128.70	9,215	0.00	0	50.00	3,580
Clarifier Underflow Pump/ Motor	TN	3	1.77	5.30	171.60	909	0.00	0	50.00	265
Clarifier Overflow Pump/ Motor	TN	3	1.22	3.66	171.60	628	0.00	0	50.00	183
Gravity Filter Tank - Steel	TN	4	10.40	41.60	128.70	5,354	0.00	0	50.00	2,080
Sludge Thickener Tank/ Agitator - Steel	TN	2	18.09	36.18	128.70	4,656	0.00	0	50.00	1,809
Gravity Filter Blower - Steel	TN	2	2.00	4.00	171.60	686	0.00	0	50.00	200
Hydropneumatic Tank - Steel	TN	1	3.25	3.25	171.60	558	0.00	0	50.00	163
Backwash Waste Pump/ Motor	TN	3	1.47	4.40	171.60	756	0.00	0	50.00	220
Thickener Underflow Pump/ Motor	TN	3	1.33	3.99	171.60	685	0.00	0	50.00	200
Floccpress Tank/ Pump System (skid-mounted)	TN	2	4.00	8.00	171.60	1,373	0.00	0	50.00	400
Concentrated Sulfuric Acid Strg Tank - Steel	TN	1	7.03	7.03	171.60	1,206	0.00	0	50.00	352
Caustic Storage Tank - Steel	TN	1	5.12	5.12	171.60	879	0.00	0	50.00	256
pH Attenuation/ Adjustment Tank - Reinf Conc	CY	1	45.77	45.77	51.60	2,362	78.00	3,570	0.00	0

ST. JOHNS RIVER POWER PARK

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
pH Attenuation/ Adjustment Tank Agitators	TN	1	1.00	1.00	276.90	277	0.00	0	50.00	50
Final Effluent Discharge Pump/ Motor	TN	2	1.22	2.44	171.60	419	0.00	0	50.00	122
Caustic Tank/ Pump System (skid-mounted)	TN	1	2.00	2.00	171.60	343	0.00	0	50.00	100
Acid Tank/ Pump System (skid-mounted)	TN	1	2.00	2.00	171.60	343	0.00	0	50.00	100
Waste Wtr Pumping Station Fndtns - Reinf Conc	CY	1	772.00	772.00	51.60	39,835	78.00	60,216	0.00	0
Fiberglass-reinforced Piping (FRP)	CY	1	3.43	3.43	20.64	71	78.00	268	0.00	0
Piping, Valves Under 4" - Steel	TN	1	3.06	3.06	276.90	847	0.00	0	50.00	153
Subtotal						243,590		279,848		17,704
<u>Yard Fire Protection System</u>										
Motor-driven Firepump 350 hp	TN	1	3.00	3.00	171.60	515	0.00	0	50.00	150
Engine-driven Firepump 400 hp Cummins	TN	1	3.25	3.25	171.60	558	0.00	0	50.00	163
Firepump Building Foundation - Reinf Concrete	CY	1	14.88	14.88	51.60	768	78.00	1,161	0.00	0
Firepump Bldg Walls & Roof - Reinf Concrete	CY	1	34.93	34.93	51.60	1,802	78.00	2,725	0.00	0
Piping, Valves Over 8" - Steel	TN	1	4.86	4.86	128.70	625	0.00	0	50.00	243
Subtotal						4,268		3,885		555
<u>Domestic Water System</u>										
Potable Water Pump/ Motor (Peerless)	TN	2	1.00	2.00	171.60	343	0.00	0	50.00	100
Piping, Valves Under 4" - Steel	TN	1	9.23	9.23	276.90	2,557	0.00	0	50.00	462
Piping, Valves 4" to 8" - Steel	TN	1	31.53	31.53	171.60	5,410	0.00	0	50.00	1,576
Piping, Valves Over 8" - Steel	TN	1	1.49	1.49	128.70	191	0.00	0	50.00	74
Subtotal						8,501		0		2,212
<u>Water Treatment System Area</u>										
Well Water Pump/ Motor/ Accessories	TN	3	5.00	15.00	171.60	2,574	0.00	0	50.00	750
Service Water Pump/ Motor	TN	5	3.22	16.09	171.60	2,761	0.00	0	50.00	804
Carbon Filter Tank - Steel	TN	3	7.70	23.10	171.60	3,964	0.00	0	50.00	1,155
Weak Cation Exchange Tank - Steel	TN	2	4.50	9.00	171.60	1,544	0.00	0	50.00	450
Strong Cation Exchange Tank - Steel	TN	2	5.18	10.36	171.60	1,778	0.00	0	50.00	518
Weak Anion Exchange Tank - Steel	TN	2	4.60	9.20	171.60	1,579	0.00	0	50.00	460
Strong Anion Exchange Tank - Steel	TN	2	5.40	10.80	171.60	1,853	0.00	0	50.00	540
Mixed Bed Exchange Tank - Steel	TN	2	3.40	6.80	171.60	1,167	0.00	0	50.00	340
Degassifier Storage Tank - Steel	TN	2	4.64	9.27	171.60	1,591	0.00	0	50.00	464
Well Water Storage Tank - Steel	TN	2	96.38	192.75	171.60	33,076	0.00	0	50.00	9,638
Well Wtr Storage Tank Foundation - Reinf Conc	CY	1	108.00	216.00	51.60	11,146	78.00	16,848	0.00	0
Waste Water Neutralization Tank - Steel	TN	2	14.27	28.54	128.70	3,673	0.00	0	50.00	1,427
Waste Wtr Neutr Tank Foundation - Reinf Conc	CY	1	57.00	114.00	51.60	5,882	78.00	8,892	0.00	0
Caustic Storage Tank - Steel	TN	1	7.76	7.76	171.60	1,332	0.00	0	50.00	388
Acid Storage Tank - Steel	TN	1	6.71	6.71	171.60	1,151	0.00	0	50.00	335
Dilution Water Heater - Steel	TN	1	9.65	9.65	171.60	1,656	0.00	0	50.00	483
Sodium Hypochloride Storage Tank - Steel	TN	1	3.99	3.99	171.60	684	0.00	0	50.00	199
Storage Tank - Steel (unmarked)	TN	1	5.00	5.00	171.60	858	0.00	0	50.00	250
Well Water Aerator w/ Fans (aluminum)	TN	2	6.25	12.50	171.60	2,145	0.00	0	50.00	625
Well Water Aerator Platform - Struc Steel	TN	1	35.00	35.00	128.70	4,505	0.00	0	50.00	1,750
Aerator Platform - Stairs, Railing, Platforms	TN	1	6.75	6.75	276.90	1,869	0.00	0	50.00	338
Aerator Platform Foundation - Reinf Concrete	CY	1	42.00	42.00	51.60	2,167	78.00	3,276	0.00	0
Pipe Supports - Steel	TN	1	15.00	15.00	171.60	2,574	0.00	0	50.00	750
Pipe Support Foundations - Reinf Concrete	CY	1	30.00	30.00	51.60	1,548	78.00	2,340	0.00	0
Water Treatment Bldg Foundation - Reinf Conc	CY	1	124.07	124.07	51.60	6,402	78.00	9,677	0.00	0

ST. JOHNS RIVER POWER PARK

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Water Treatment Bldg Roof - Reinf Concrete	CY	1	92.59	92.59	51.60	4,778	78.00	7,222	0.00	0
Water Treatment Bldg Walls - Concrete Block	CY	1	107.20	107.20	20.64	2,213	78.00	8,362	0.00	0
Water Treatment Building - HVAC	TN	1	1.00	1.00	171.60	172	0.00	0	50.00	50
Water Treatment Control Console (indoor)	TN	1	2.00	2.00	171.60	343	0.00	0	50.00	100
Piping, Valves Under 4" - Steel	TN	1	31.27	31.27	276.90	8,660	0.00	0	50.00	1,564
Piping, Valves 4" to 8" - Steel	TN	1	56.92	56.92	171.60	9,768	0.00	0	50.00	2,846
Piping, Valves Over 8" - Steel	TN	1	101.49	101.49	128.70	13,061	0.00	0	50.00	5,074
Subtotal						138,471		56,617		31,297
<u>Cooling Tower Make-up Area - JEA Northside Station</u>										
Make-up Structure & Flume - Reinf Concrete	CY	1	1,163.00	1,163.00	51.60	60,011	78.00	90,714	0.00	0
Support Steel	TN	1	15.00	15.00	171.60	2,574	0.00	0	50.00	750
Miscellaneous Steel	TN	1	2.50	2.50	276.90	692	0.00	0	50.00	125
Make-up Pump/ Motor	TN	3	8.21	24.64	171.60	4,228	0.00	0	50.00	1,232
Rotary Strainer w/ Motor	TN	2	35.00	70.00	128.70	9,009	0.00	0	50.00	3,500
ChlorMaster Control Console	TN	1	1.50	1.50	171.60	257	0.00	0	50.00	75
Chlorine Generator (skid-mounted)	TN	4	2.97	11.88	171.60	2,039	0.00	0	50.00	594
Miscellaneous Pumps and Equipment	TN	1	1.50	1.50	276.90	415	0.00	0	50.00	75
FRP Piping - 48" Make-up & 42" Blowdown	CY	1	657.06	657.06	20.64	13,562	78.00	51,251	0.00	0
Subtotal						92,787		141,965		6,351
<u>Cooling Tower Electrical Building</u>										
Foundation - Reinforced Concrete	CY	1	2,829.00	2,829.00	51.60	145,976	78.00	220,662	0.00	0
Roof - Reinforced Concrete	CY	1	11.11	11.11	51.60	573	78.00	867	0.00	0
Walls - Concrete Block	CY	1	28.59	28.59	20.64	590	78.00	2,230	0.00	0
HVAC	TN	1	1.50	1.50	171.60	257	0.00	0	50.00	75
Subtotal						147,397		223,759		75
<u>Cooling Tower Chlorination System</u>										
Foundation - Reinforced Concrete	CY	1	185.00	185.00	51.60	9,546	78.00	14,430	0.00	0
Sulfuric Acid Tank - Steel	TN	1	6.71	6.71	171.60	1,151	0.00	0	50.00	335
Miscellaneous Pumps and Equipment	TN	1	2.00	2.00	276.90	554	0.00	0	50.00	100
Subtotal						11,250		14,430		435
<u>Station Structure Buildings/ Yard Area Piping</u>										
Structural Steel	TN	1	1,779.00	1,779.00	128.70	228,957	0.00	0	50.00	88,950
Miscellaneous Steel	TN	1	3.00	3.00	276.90	831	0.00	0	50.00	150
Grating - Steel (445 sf)	TN	1	2.40	2.40	276.90	665	0.00	0	50.00	120
Checkerplate - Steel (139 sf)	TN	1	1.04	1.04	276.90	289	0.00	0	50.00	52
Handrailing - Steel (188 lf)	TN	1	1.00	1.00	276.90	277	0.00	0	50.00	50
Ladders/ Stairs - Steel	TN	1	19.00	19.00	276.90	5,261	0.00	0	50.00	950
Footings, Columns & Piers - Reinf Concrete	CY	1	1,007.00	1,007.00	51.60	51,961	78.00	78,546	0.00	0
Grade Floors - Reinforced Concrete	CY	1	2,694.00	2,694.00	51.60	139,010	78.00	210,132	0.00	0
Walls - Concrete Block (180,310 sf)	CY	1	2,982.90	2,982.90	20.64	61,567	78.00	232,666	0.00	0
Floor Slabs - Reinforced Concrete	CY	1	2,672.00	2,672.00	51.60	137,875	78.00	208,416	0.00	0
Misc. Foundations - Reinforced Concrete	CY	1	958.00	958.00	51.60	49,433	78.00	74,724	0.00	0
Steel Siding/ Roofing (36,285 sf)	TN	1	49.89	49.89	171.60	8,561	0.00	0	50.00	2,495
Built-up Roofing (52,500 sf)	CY	1	37.22	37.22	20.64	768	78.00	2,903	0.00	0
Steel Roof Decking (5,700 sf)	TN	1	8.55	8.55	276.90	2,367	0.00	0	50.00	428
HVAC Ductwork - Steel	TN	1	59.95	59.95	171.60	10,287	0.00	0	50.00	2,998

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HVAC Piping - Steel	TN	1	800.00	800.00	128.70	102,960	0.00	0	50.00	40,000
Svc Bldg Cranes & I-beam Supports (total)	TN	1	20.00	20.00	171.60	3,432	0.00	0	50.00	1,000
100-ton Gantry Crane	TN	1	140.00	140.00	128.70	18,018	0.00	0	50.00	7,000
Gantry Crane Rail (135#/yd @ 1,020 lf)	TN	1	22.95	22.95	276.90	6,355	0.00	0	50.00	1,148
AQCS Building Elevator	TN	1	8.20	8.20	128.70	1,055	0.00	0	50.00	410
Copper Tubing	TN	1	1.47	1.47	276.90	407	0.00	0	710.00	1,045
Piping, Valves Under 4" - Steel	TN	1	1.62	1.62	276.90	449	0.00	0	50.00	81
Piping, Valves 4" to 8" - Steel	TN	1	3.23	3.23	171.60	554	0.00	0	50.00	161
Piping, Valves Under 4" - Cast Iron	TN	1	9.18	9.18	276.90	2,542	0.00	0	50.00	459
Piping, Valves 4" to 8" - Cast Iron	TN	1	39.48	39.48	171.60	6,774	0.00	0	50.00	1,974
Piping, Valves Over 8" - Cast Iron	TN	1	4.12	4.12	128.70	530	0.00	0	50.00	206
Piping, Valves - Cast Iron (underground)	TN	1	21.40	21.40	210.00	4,494	0.00	0	50.00	1,070
Oily Waste Piping, Vlvs 4" to 8" - Cast Iron	TN	1	3.26	3.26	171.60	560	0.00	0	50.00	163
PVC Piping (above ground)	CY	1	15.60	15.60	20.64	322	78.00	1,217	0.00	0
PVC Piping (below grade)	CY	1	17.32	17.32	20.64	357	78.00	1,351	0.00	0
Fiberglass-reinforced Piping (FRP)	CY	1	116.82	116.82	20.64	2,411	78.00	9,112	0.00	0
Subtotal						849,333		819,067		150,908
Warehouse Structures										
Foundations - Reinforced Concrete	CY	1	1,037.00	1,037.00	51.60	53,509	78.00	80,886	0.00	0
Structural Steel	TN	1	280.00	280.00	128.70	36,036	0.00	0	50.00	14,000
Siding/ Roofing - Steel	TN	1	139.32	139.32	171.60	23,907	0.00	0	50.00	6,966
HVAC Equipment & Ducting	TN	1	13.00	13.00	171.60	2,231	0.00	0	50.00	650
Subtotal						115,683		80,886		21,616
Total Account 311						1,775,151		2,047,858		258,739
FERC Account 312										
Boiler Plant Service Equipment										
Auxillary Boiler System										
Boiler	TN	2	53.21	106.42	128.70	13,696	0.00	0	50.00	5,321
Economizer	TN	2	7.66	15.33	171.60	2,630	0.00	0	50.00	766
Forced Draft Fan/ Motor	TN	2	2.96	5.93	171.60	1,017	0.00	0	50.00	296
Flues, Ductwork & Stack	TN	1	31.61	31.61	171.60	5,424	0.00	0	50.00	1,581
Deaerator & Boiler Feed Pump Package	TN	1	17.75	17.75	171.60	3,046	0.00	0	50.00	888
Miscellaneous Steel	TN	1	11.25	11.25	276.90	3,114	0.00	0	50.00	562
Piping, Valves 4" to 8" - Steel	TN	1	3.06	3.06	276.90	848	0.00	0	50.00	153
Subtotal						29,775		0		9,587
Chimney										
Foundation - Reinforced Concrete	CY	1	6,795.00	6,795.00	51.60	350,622	78.00	530,010	0.00	0
Structure - Reinforced Concrete	CY	1	6,394.00	6,394.00	51.60	329,930	78.00	498,732	0.00	0
Floor Slabs - Reinforced Concrete	CY	1	60.00	60.00	51.60	3,096	78.00	4,680	0.00	0
Brick Liner	CY	2	4,759.40	9,518.80	20.64	196,468	78.00	742,466	0.00	0
Ladders - Steel (625 lf)	TN	1	8.25	8.25	276.90	2,284	0.00	0	50.00	413
Platforms - Steel (3,840 sf)	TN	1	20.74	20.74	276.90	5,742	0.00	0	50.00	1,037
Roof Deck - Steel (2,601 sf)	TN	1	3.90	3.90	276.90	1,080	0.00	0	50.00	195
Subtotal						889,223		1,775,888		1,644
Light Oil Service										

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Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Light Oil Storage Tank - Steel	TN	1	73.05	73.05	128.70	9,402	0.00	0	50.00	3,653
Light Oil Storage Tank - Demolition	TN	1	73.00	73.00	n/a	12,500	0.00	0	50.00	3,650
Tank/ Pump Foundations - Reinforced Concrete	CY	1	164.00	164.00	n/a	25,883	78.00	12,792	0.00	0
Soil Remediation	CY	1	n/a	0.00	n/a	10,619	0.00	0	0.00	0
Tank Retainer Wall - Concrete Block	CY	1	57.17	57.17	20.64	1,180	78.00	4,459	0.00	0
Miscellaneous Pumps/ Motors	TN	1	1.50	1.50	276.90	415	0.00	0	50.00	75
Miscellaneous Steel/ Walkways	TN	1	4.00	4.00	276.90	1,108	0.00	0	50.00	200
Piping, Valves Under 4" - Steel	TN	1	22.25	22.25	276.90	6,161	0.00	0	50.00	1,113
Piping, Valves 4" to 8" - Steel	TN	1	18.35	18.35	171.60	3,150	0.00	0	50.00	918
Clean Light Oil Strg Tank	EA	1	n/a	n/a	n/a	13,000	0.00	0	0.00	0
Subtotal						83,418		17,251		9,608
Total Account 312						1,002,416		1,793,140		20,819
FERC Account 315										
Accessory Electrical Equipment										
Power Conversion Equipment										
Start-up Transformer Shell, Tank, Fittings	TN	2	33.31	66.62	128.70	8,573	0.00	0	50.00	3,331
Start-up Transformer Copper	TN	1	81.69	81.69	300.00	24,506	0.00	0	710.00	57,996
Start-up Transformer Foundation - Reinf Conc	CY	1	324.00	324.00	51.60	16,718	78.00	25,272	0.00	0
Chem Treatment Area - Station Svc Transformer	TN	2	1.00	2.00	171.60	343	0.00	0	50.00	100
Chemical Treatment Area - Transformer Copper	TN	2	1.22	2.44	300.00	732	0.00	0	710.00	1,732
480V Power Control Centers (total)	TN	1	31.92	31.92	171.60	5,478	0.00	0	50.00	1,596
480V Motor Control Center	TN	10	2.40	24.00	171.60	4,118	0.00	0	50.00	1,200
Cooling Tower Chlor System - AC/DC Rectifier	TN	2	12.50	25.00	128.70	3,218	0.00	0	50.00	1,250
JEA Northside - Station Service Transformer	TN	2	1.00	2.00	171.60	343	0.00	0	50.00	100
JEA Northside - Transformer Copper	TN	1	2.48	2.48	300.00	744	0.00	0	710.00	1,761
JEA Northside - AC/DC Rectifier	TN	1	12.50	12.50	128.70	1,609	0.00	0	50.00	625
JEA Northside - Gould 480V Switchgear	TN	1	3.00	3.00	171.60	515	0.00	0	50.00	150
Emergency Diesel Generator - Plant	TN	1	69.64	69.64	128.70	8,963	0.00	0	50.00	3,482
Emerg Dsl Gen Fuel Tank Fndation - Reinf Conc	CY	1	17.00	17.00	51.60	877	78.00	1,326	0.00	0
Emergency Diesel Generator - FGDS	TN	1	21.80	21.80	128.70	2,805	0.00	0	50.00	1,090
Conduit - Steel	TN	1	122.66	122.66	276.90	33,964	0.00	0	50.00	6,133
Cable Tray - Steel	TN	1	76.47	76.47	276.90	21,173	0.00	0	50.00	3,823
Cable Tray Support Steel	TN	1	26.70	26.70	171.60	4,582	0.00	0	50.00	1,335
Insulated Copper Wiring	TN	1	607.53	607.53	468.00	284,325	0.00	0	760.00	461,725
Bare Copper Wiring	TN	1	16.45	16.45	468.00	7,700	0.00	0	710.00	11,682
Conduit Ductbank - Reinforced Concrete	CY	1	1,655.00	1,655.00	51.60	85,398	78.00	129,090	0.00	0
Total Account 315						516,684		155,668		559,111
FERC Account 316										
Miscellaneous Power Plant Equipment										
Personnel Elevator	TN	1	6.36	6.36	171.60	1,091	0.00	0	50.00	318
Freight Elevator	TN	1	9.00	9.00	171.60	1,544	0.00	0	50.00	450
Elevator Framing - Steel	TN	1	155.00	155.00	128.70	19,949	0.00	0	50.00	7,750
Total Account 316						22,584		0		8,518
FERC Account 352										
Substation										
Switchyard Foundations - Reinforced Concrete	CY	1	3,342.00	3,342.00	51.60	172,447	78.00	260,676	0.00	0

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Switchyard Pre-fabricated Trench - Reinf Conc	CY	1	103.00	103.00	51.60	5,315	78.00	8,034	0.00	0
Switchyard Fencing - Steel	TN	1	7.64	7.64	276.90	2,114	0.00	0	50.00	382
Building Foundation - Reinforced Concrete	CY	1	78.00	78.00	51.60	4,025	78.00	6,084	0.00	0
Superstructure - Concrete Block	CY	1	42.88	42.88	51.60	2,213	78.00	3,345	0.00	0
Roof - Reinforced Concrete	CY	1	33.33	33.33	51.60	1,720	78.00	2,600	0.00	0
HVAC	TN	1	2.00	2.00	171.60	343	0.00	0	50.00	100
GE Relay and Control Boards (5 total) - Steel	TN	1	9.88	9.88	171.60	1,695	0.00	0	50.00	494
Microwave Tower - Steel	TN	1	3.00	3.00	128.70	386	0.00	0	50.00	150
Cable Tray - Steel (1,150 lf)	TN	1	5.75	5.75	276.90	1,592	0.00	0	50.00	288
Conduit - Steel (5,000 lf)	TN	1	17.25	17.25	276.90	4,777	0.00	0	50.00	863
Total Account 352						196,626		280,738		2,276
TOTAL SITE COMMON						3,513,460		4,277,424		849,462
ST. JOHNS UNITS 1 & 2										
FERC Account 311										
Improvements to Site										
Site - General										
Above Ground Pipe Racks - Structural Steel	TN	1	1,405.00	1,405.00	128.70	180,824	0.00	0	50.00	70,250
Above Ground Pipe Rack Fndtions - Reinf Conc	CY	1	4,196.00	4,196.00	51.60	216,514	78.00	327,288	0.00	0
Pipe Sleepers - Structural Steel	TN	1	30.00	30.00	128.70	3,861	0.00	0	50.00	1,500
Pipe Sleeper Foundations - Reinf Concrete	CY	1	461.00	461.00	51.60	23,788	78.00	35,958	0.00	0
Subtotal						424,988		363,246		71,750
Station Structures										
Turbine Gen Bldg Columns, Footings, Piers	CY	1	7,216.00	7,216.00	51.60	372,346	78.00	562,848	0.00	0
Turbine Gen Bldg Foundation Wall & Trench	CY	1	100.00	100.00	51.60	5,160	78.00	7,800	0.00	0
Turbine Gen Bldg Misc Fndtions - Reinf Conc	CY	1	726.00	726.00	51.60	37,462	78.00	56,628	0.00	0
Turbine Gen Bldg Grade Floor - Reinf Concrete	CY	1	1,934.00	1,934.00	51.60	99,794	78.00	150,852	0.00	0
Turbine Gen Bldg Floor Slabs - Reinf Concrete	CY	1	2,567.00	2,567.00	51.60	132,457	78.00	200,226	0.00	0
Turbine Generator Bldg - Structural Steel	TN	1	3,928.00	3,928.00	128.70	505,276	0.00	0	50.00	196,300
Turbine Gen Bldg - Deck Grating (25,070 sf)	TN	1	135.38	135.38	276.90	37,486	0.00	0	50.00	6,769
Turbine Gen Bldg - Handrails (1,960 lf)	TN	1	9.80	9.80	276.90	2,714	0.00	0	50.00	490
Turbine Generator Bldg - Ladders & Stairs	TN	1	110.00	110.00	276.90	30,459	0.00	0	50.00	5,500
Turbine Gen Bldg - Checkerplate (63,502 sf)	TN	1	476.27	476.27	276.90	131,878	0.00	0	50.00	23,813
Turbine Gen Bldg - Concrete Block (27,144 sf)	CY	1	449.00	449.00	20.64	9,267	78.00	35,022	0.00	0
T-G Bldg - Steel Siding (167,687 sf)	TN	1	209.61	209.61	171.60	35,969	0.00	0	50.00	10,480
T-G Bldg - Built-up Roofing (63,700 sf)	CY	1	45.15	45.15	20.64	932	78.00	3,522	0.00	0
Turbine Generator Building - HVAC Ductwork	TN	1	93.01	93.01	171.60	15,960	0.00	0	50.00	4,650
Turbine Generator Building - HVAC Piping	TN	1	60.00	60.00	171.60	10,296	0.00	0	50.00	3,000
Blr Area Columns, Footings, Piers - Reinf Conc	CY	1	1,111.00	1,111.00	51.60	57,328	78.00	86,658	0.00	0
Boiler Area Foundations - Reinforced Concrete	CY	1	15,492.00	15,492.00	51.60	799,387	78.00	1,208,376	0.00	0
Boiler Area Fndtn Wall & Trench - Reinf Conc	CY	1	51.00	51.00	51.60	2,632	78.00	3,978	0.00	0
Boiler Area Misc. Foundations - Reinf Conc	CY	1	711.00	711.00	51.60	36,688	78.00	55,458	0.00	0
Boiler Area Ash Hopper Fndation -Reinf Conc	CY	1	540.00	540.00	51.60	27,864	78.00	42,120	0.00	0
Boiler Area Grade Floor - Reinforced Concrete	CY	1	1,311.00	1,311.00	51.60	67,648	78.00	102,258	0.00	0
Boiler Area Suspended Floor - Reinf Concrete	CY	1	752.00	752.00	51.60	38,803	78.00	58,656	0.00	0
Boiler Area Column Encasement - Reinf Conc	CY	1	350.00	350.00	51.60	18,060	78.00	27,300	0.00	0
Boiler Area Walls - Concrete Block(18,290 sf)	CY	1	302.58	302.58	20.64	6,245	78.00	23,601	0.00	0
Boiler Area - Steel Siding (98,790 sf)	TN	1	123.49	123.49	171.60	21,190	0.00	0	50.00	6,174

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Boiler Area - Built-up Roofing (40,190 sf)	CY	1	28.49	28.49	20.64	588	78.00	2,222	0.00	0
Boiler Area - Roof Plating (37,400 sf)	TN	1	56.10	56.10	276.90	15,534	0.00	0	50.00	2,805
Boiler Area - HVAC Ductwork	TN	1	208.95	208.95	171.60	35,856	0.00	0	50.00	10,448
Boiler Area - Deck Grating (700 sf)	TN	1	3.78	3.78	276.90	1,047	0.00	0	50.00	189
Boiler Area - Checkerplate (450 sf)	TN	1	3.38	3.38	276.90	935	0.00	0	50.00	169
Boiler Area - Miscellaneous Steel	TN	1	60.00	60.00	276.90	16,614	0.00	0	50.00	3,000
Heater Bay - Structural Steel	TN	1	650.00	650.00	128.70	83,655	0.00	0	50.00	32,500
FD/ID Fan Building Foundations - Reinf Conc	CY	1	279.16	279.16	51.60	14,405	78.00	21,774	0.00	0
FD/ID Fan Buildings Roofs - Reinf Concrete	CY	1	279.16	279.16	51.60	14,405	78.00	21,774	0.00	0
FD/ID Fan Bldgs - Concrete Block Walls	CY	1	242.30	242.30	20.64	5,001	78.00	18,899	0.00	0
FD/ID Fan Bldgs - Structural Steel	TN	1	30.00	30.00	128.70	3,861	0.00	0	50.00	1,500
FD/ID Fan Bldgs - Ladders/ Guardrailing	TN	1	4.00	4.00	276.90	1,108	0.00	0	50.00	200
FD/ID Fan Bldgs - HVAC & Ducting	TN	1	31.70	31.70	171.60	5,440	0.00	0	50.00	1,585
Fiberglass-reinforced Piping (FRP)	TN	1	2.03	2.03	51.60	105	78.00	158	0.00	0
Piping, Valves Under 4" - Steel	TN	1	4.12	4.12	276.90	1,142	0.00	0	50.00	206
Piping, Valves 4" to 8" - Steel	TN	1	9.61	9.61	171.60	1,649	0.00	0	50.00	480
Piping, Valves Under 4" - Cast Iron	TN	1	17.19	17.19	276.90	4,760	0.00	0	50.00	859
Piping, Valves 4" to 8" - Cast Iron	TN	1	74.01	74.01	171.60	12,701	0.00	0	50.00	3,701
Piping, Valves Over 8" - Cast Iron	TN	1	51.23	51.23	128.70	6,593	0.00	0	50.00	2,562
Piping (underground) - Cast Iron	TN	1	7.72	7.72	234.00	1,807	0.00	0	50.00	386
Subtotal						2,730,503		2,690,132		317,767
Total Account 311						3,155,489		3,053,378		389,517
FERC Account 312										
Boiler Plant Service Equipment										
Boiler Plant Equipment										
Boiler Structural Steel	TN	1	7,414.00	7,414.00	128.70	954,182	0.00	0	50.00	370,700
Boiler Top Steel	TN	1	3,300.00	3,300.00	128.70	424,710	0.00	0	50.00	165,000
Grating, Checkerplate, Handrailing	TN	1	836.00	836.00	276.90	231,488	0.00	0	50.00	41,800
Buckstays	TN	1	917.10	917.10	276.90	253,945	0.00	0	50.00	45,855
Flues & Ducts	TN	1	1,809.08	1,809.08	171.60	310,438	0.00	0	50.00	90,454
APH Support Steel	TN	1	1,094.00	1,094.00	171.60	187,730	0.00	0	50.00	54,700
Coal Conduit - Steel	TN	1	1,008.00	1,008.00	171.60	172,973	0.00	0	50.00	50,400
Steam Generation Unit - including:										
Steam Drum (Drum, Internals, Supports)	TN	2	443.55	887.10	128.70	114,170	0.00	0	50.00	44,355
Burner Area	TN	1	879.00	879.00	128.70	113,127	0.00	0	50.00	43,950
Penthouse Area	TN	1	434.00	434.00	128.70	55,856	0.00	0	50.00	21,700
Heat Recovery Area	TN	1	2,935.00	2,935.00	128.70	377,735	0.00	0	50.00	146,750
Hopper Area	TN	1	1,921.00	1,921.00	128.70	247,233	0.00	0	50.00	96,050
Water Walls/ Headers	TN	1	2,056.00	2,056.00	128.70	264,607	0.00	0	50.00	102,800
Downcomers	TN	1	858.00	858.00	128.70	110,425	0.00	0	50.00	42,900
Air Preheater/ Steam Coil Heater	TN	2	1,455.00	2,910.00	128.70	374,517	0.00	0	50.00	145,500
Superheater	TN	2	294.00	588.00	128.70	75,676	0.00	0	50.00	29,400
Reheater	TN	2	1,102.50	2,205.00	128.70	283,784	0.00	0	50.00	110,250
Economizer	TN	2	492.20	984.40	128.70	126,692	0.00	0	50.00	49,220
Dampers	TN	1	440.54	440.54	128.70	56,697	0.00	0	50.00	22,027
Speed Reducers	TN	1	295.00	295.00	171.60	50,622	0.00	0	50.00	14,750
Steam Sampling System	TN	2	1.50	3.00	171.60	515	0.00	0	50.00	150
Blr Setting Insulation	CY	1	8,148.00	8,148.00	39.00	317,772	8.00	65,184	0.00	0

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Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Soot Blower	TN	116	1.88	217.50	171.60	37,323	0.00	0	50.00	10,875
Soot Blower Supports	TN	1	40.00	40.00	171.60	6,864	0.00	0	50.00	2,000
Safety/ Relief Valves & Silencers	TN	1	21.00	21.00	171.60	3,604	0.00	0	50.00	1,050
Instrument Air Compressor/ Coolers	TN	4	11.15	44.60	128.70	5,740	0.00	0	50.00	2,230
Instrument Air Compressor Motor	TN	4	6.16	24.64	171.60	4,228	0.00	0	50.00	1,232
Instrument Air Dryer	TN	2	1.65	3.30	171.60	586	0.00	0	50.00	165
Instrument Air Receiver	TN	2	3.85	7.70	171.60	1,321	0.00	0	50.00	385
Instrument Air Piping, Vlvs Under 4" - Steel	TN	1	154.41	154.41	276.90	42,756	0.00	0	50.00	7,720
Instrument Air Piping, Vlvs 4" to 8" - Steel	TN	1	5.82	5.82	171.60	999	0.00	0	50.00	291
Instrument Air Piping, Valves Over 8" - Steel	TN	1	2.98	2.98	128.70	384	0.00	0	50.00	149
Instr Air Compressor Foundations - Reinf Conc	CY	1	360.00	360.00	51.60	18,576	78.00	28,080	0.00	0
F/D & Primary Air Fans, Blowers & Accessories	TN	2	452.50	905.00	128.70	116,474	0.00	0	50.00	45,250
Forced Draft/ Pmry Air Fan Fndtns - Rnf Conc	CY	1	1,772.00	1,772.00	51.60	91,435	78.00	138,216	0.00	0
HVAC Ductwork	TN	1	165.60	165.60	171.60	28,417	0.00	0	50.00	8,280
Subtotal						5,463,579		231,480		1,768,338
<u>Boiler Plant Auxiliaries</u>										
<u>Feed Water System</u>										
#1 Feedwater Heater - HP	TN	2	139.25	278.50	128.70	35,843	0.00	0	50.00	13,925
#2 Feedwater Heater - HP	TN	2	133.40	266.80	128.70	34,337	0.00	0	50.00	13,340
#3 Feedwater Heater - IP	TN	2	39.35	78.70	128.70	10,129	0.00	0	50.00	3,935
#4 Feedwater Deaerator Heater	TN	2	85.12	170.24	128.70	21,910	0.00	0	50.00	8,512
#5 Feedwater Heater - LP	TN	2	21.30	42.60	128.70	5,483	0.00	0	50.00	2,130
#6 Feedwater Heater - LP	TN	2	28.70	57.40	128.70	7,387	0.00	0	50.00	2,870
#7 Feedwater Heater A&B - LP	TN	2	41.70	83.40	128.70	10,734	0.00	0	50.00	4,170
#8 Feedwater Heater A&B - LP	TN	2	26.00	52.00	128.70	6,692	0.00	0	50.00	2,600
Boiler Feed Pump/ Baseplate	TN	4	21.50	86.00	128.70	11,068	0.00	0	50.00	4,300
Boiler Feed Pump Turbine	TN	4	53.50	214.00	128.70	27,542	0.00	0	50.00	10,700
Turbine Control Console	TN	4	2.25	9.00	171.60	1,544	0.00	0	50.00	450
Turbine L/O System Tank, HP Vlv, Cooler, etc.	TN	4	8.09	32.34	171.60	5,550	0.00	0	50.00	1,617
Turbine LP Stop Valve	TN	4	7.70	30.80	171.60	5,285	0.00	0	50.00	1,540
Boiler Feed Pump/ Trbn Pedestal - Reinf Conc	CY	1	1,706.00	1,706.00	51.60	88,030	78.00	133,068	0.00	0
Boiler Feed Booster Pump/ Speed Changer	TN	4	5.45	21.80	171.60	3,741	0.00	0	50.00	1,090
Heater Drain Pump	TN	2	6.89	13.78	171.60	2,364	0.00	0	50.00	689
Heater Drain Pump Motor	TN	2	2.50	4.99	171.60	856	0.00	0	50.00	250
LP Heater Drain Tank - Steel	TN	2	6.66	13.32	171.60	2,286	0.00	0	50.00	666
Steam Coil Air Heater Drain Tank	TN	2	1.80	3.60	171.60	618	0.00	0	50.00	180
Boiler Cold Fill Pump w/ Motor	TN	2	3.06	6.13	171.60	1,051	0.00	0	50.00	306
Condensate Storage Tank - Steel	TN	2	81.60	163.20	128.70	21,004	0.00	0	50.00	8,160
Condensate Strg Tank Foundation - Reinf Conc	CY	1	216.00	216.00	51.60	11,146	78.00	16,848	0.00	0
Steam & Water Sample Analysis Cabinet - Steel	TN	2	3.40	6.80	171.60	1,167	0.00	0	50.00	340
Steam & Wtr Sample Analysis Monitoring Board	TN	2	1.90	3.80	171.60	652	0.00	0	50.00	190
Hydrazine System - tanks, pumps, skid (steel)	TN	2	2.50	5.00	171.60	858	0.00	0	50.00	250
Ammonia System - tanks, pumps, skid (steel)	TN	2	2.50	5.00	171.60	858	0.00	0	50.00	250
Phosphate System - tanks, pumps, skid (steel)	TN	2	2.75	5.50	171.60	944	0.00	0	50.00	275
Ammonium Hydroxide Storage Tank - Steel	TN	2	2.75	5.50	171.60	944	0.00	0	50.00	275
Piping, Vlvs Under 4" - Steel	TN	1	10.92	10.92	276.90	3,025	0.00	0	50.00	546
Piping, Vlvs 4" to 8" - Steel	TN	1	47.75	47.75	171.60	8,194	0.00	0	50.00	2,388
Piping, Vlvs Over 8" - Steel	TN	1	246.54	246.54	128.70	31,730	0.00	0	50.00	12,327
System Insulation	CY	1	91.39	91.39	39.00	3,564	8.00	731	0.00	0

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Subtotal						366,535		150,647		98,271
Boiler Plant Piping - All Systems										
Piping, Vlvs Under 4" - Steel	TN	1	115.82	115.82	276.90	32,069	0.00	0	50.00	5,791
Piping, Vlvs 4" to 8" - Steel	TN	1	159.23	159.23	171.60	27,325	0.00	0	50.00	7,962
Piping, Vlvs Over 8" - Steel	TN	1	1,047.09	1,047.09	128.70	134,760	0.00	0	50.00	52,354
System Insulation	CY	1	103.94	103.94	39.00	4,054	8.00	832	0.00	0
Subtotal						198,208		832		66,107
Induced Draft Equipment										
Induced Draft Fan/ Hydraulic Coupling	TN	8	82.15	657.20	128.70	84,582	0.00	0	50.00	32,860
Induced Draft Fan Motor	TN	8	15.00	120.00	128.70	15,444	0.00	0	50.00	6,000
Induced Draft Fan Lube Oil Supply Unit	TN	8	1.15	9.20	171.60	1,579	0.00	0	50.00	460
ID Fan/ Motor Foundations - Reinf Concrete	CY	1	4,285.00	4,285.00	51.60	221,106	78.00	334,230	0.00	0
System Insulation	CY	1	135.60	135.60	39.00	5,288	8.00	1,085	0.00	0
Subtotal						327,999		335,315		39,320
Electrostatic Precipitator										
Precipitator Foundations - Reinf Conc	CY	1	9,621.00	9,621.00	51.60	496,444	78.00	750,438	0.00	0
Assembled Precipitator - Steel	TN	2	5,581.30	11,162.60	128.70	1,436,627	0.00	0	50.00	558,130
Precipitator Support Steel	TN	1	1,002.50	1,002.50	128.70	129,022	0.00	0	50.00	50,125
Ductwork - Steel	TN	1	1,666.00	1,666.00	128.70	214,414	0.00	0	50.00	83,300
Ductwork Support Steel	TN	1	625.60	625.60	171.60	107,353	0.00	0	50.00	31,280
Platforms, Stairs & Walkways - Steel	TN	1	391.60	391.60	276.90	108,434	0.00	0	50.00	19,580
Platforms, Stairs & Walkways Support Steel	TN	1	167.80	167.80	171.60	28,794	0.00	0	50.00	8,390
Subtotal						2,521,088		750,438		750,805
Flue Gas Desulfurization System (FGDS)										
FGDS Foundations - Reinforced Concrete	CY	1	16,004.00	16,004.00	51.60	825,806	78.00	1,248,312	0.00	0
Absorber Tower - Steel	TN	6	314.67	1,888.00	128.70	242,986	0.00	0	50.00	94,400
Absorber Tower Agitator/ Motor	TN	30	1.50	44.91	171.60	7,707	0.00	0	50.00	2,246
Absorber Tower Damper	TN	14	20.00	280.00	128.70	36,036	0.00	0	50.00	14,000
Absorber Feed Tank	TN	6	91.83	551.00	128.70	70,914	0.00	0	50.00	27,550
Absorber Feed Pump/ Motor	TN	24	13.30	319.20	128.70	41,081	0.00	0	50.00	15,960
Absorber Feed Tank Agitator/ Motor	TN	6	7.37	44.23	171.60	7,590	0.00	0	50.00	2,211
Absorber Feed Hydroclones	TN	1	5.70	5.70	276.90	1,578	0.00	0	50.00	285
Quencher Hydroclones	TN	1	9.60	9.60	276.90	2,658	0.00	0	50.00	480
Quencher Hydroclone Pump/ Motor	TN	12	12.40	148.80	128.70	19,151	0.00	0	50.00	7,440
Well Water Tank	TN	2	19.00	38.00	128.70	4,891	0.00	0	50.00	1,900
Well Water Deluge Pump/ Motor	TN	6	2.05	12.32	171.60	2,113	0.00	0	50.00	616
Waste Slurry Storage Tank	TN	2	77.50	155.00	128.70	19,949	0.00	0	50.00	7,750
Waste Slurry Tank Agitator/ Motor	TN	4	4.35	17.40	171.60	2,986	0.00	0	50.00	870
Oxidation Air Compressor/ Motor	TN	5	14.97	74.86	128.70	9,635	0.00	0	50.00	3,743
Waste Transfer Tank	TN	6	4.50	27.00	171.60	4,633	0.00	0	50.00	1,350
Waste Transfer Pump/ Motor & Agitator/ Motor	TN	6	1.28	7.66	171.60	1,314	0.00	0	50.00	383
Flues	TN	1	1,652.00	1,652.00	128.70	212,612	0.00	0	50.00	82,600
Reheater System Support Steel	TN	1	1,254.00	1,254.00	128.70	161,390	0.00	0	50.00	62,700
Reheater	TN	2	28.33	56.66	128.70	7,292	0.00	0	50.00	2,833
Reheater Fan	TN	4	27.85	111.40	128.70	14,337	0.00	0	50.00	5,570
Reheater Fan Motor - 350 hp	TN	4	3.85	15.40	171.60	2,643	0.00	0	50.00	770

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Reheater Accessories	TN	1	655.00	655.00	128.70	84,299	0.00	0	50.00	32,750
Reheater Outlet Damper	TN	2	6.25	12.50	171.60	2,145	0.00	0	50.00	625
Expansion Joints	TN	1	20.86	20.86	171.60	3,580	0.00	0	50.00	1,043
Pipe Racks & Cable Trays Support Steel	TN	1	289.00	289.00	171.60	49,592	0.00	0	50.00	14,450
FGDS Control Board - Steel	TN	2	1.75	3.50	171.60	601	0.00	0	50.00	175
FGDS Waste Disposal Control Console - Steel	TN	2	1.00	2.00	171.60	343	0.00	0	50.00	100
Stack Emission Monitoring Cabinet - Steel	TN	2	1.00	2.00	171.60	343	0.00	0	50.00	100
Fiberglass-reinforced Piping	TN	1	23.36	23.36	276.90	6,469	0.00	0	50.00	1,168
Piping, Vlvs Under 4" - Steel	TN	1	27.88	27.88	276.90	7,719	0.00	0	50.00	1,394
Piping, Vlvs 4"-8" - Steel	TN	1	64.21	64.21	171.60	11,019	0.00	0	50.00	3,211
Piping, Vlvs Over 8" - Steel	TN	1	330.31	330.31	128.70	42,511	0.00	0	50.00	16,516
Subtotal						1,907,921		1,248,312		407,188
Ash Handling Area										
Foundations - Reinforced Concrete	CY	1	3,999.00	3,999.00	51.60	206,348	78.00	311,922	0.00	0
Structural Steel	TN	1	100.00	100.00	128.70	12,870	0.00	0	50.00	5,000
Space Heater Control Panel/Fan Isolator Panel	TN	2	3.86	7.72	171.60	1,325	0.00	0	50.00	386
Forced Draft Fan Control Panel	TN	6	3.48	20.85	171.60	3,578	0.00	0	50.00	1,043
Induced Draft Fan Control Panel	TN	16	4.45	71.14	171.60	12,207	0.00	0	50.00	3,557
Bottom Ash Control Board	TN	2	5.00	10.00	171.60	1,716	0.00	0	50.00	500
Fly Ash Control Board/ Pedestal	TN	2	2.13	4.25	171.60	729	0.00	0	50.00	213
Fly Ash Master Logic Cabinet/ Pedestal	TN	2	4.00	8.00	171.60	1,373	0.00	0	50.00	400
Fly Ash Handling System 1A/2A Logic Cabinet	TN	2	1.75	3.50	171.60	601	0.00	0	50.00	175
Fly Ash Handling System 1B/2B Logic Cabinet	TN	2	1.75	3.50	171.60	601	0.00	0	50.00	175
Fly Ash Handling System 1C/2C Logic Cabinet	TN	2	1.50	3.00	171.60	516	0.00	0	50.00	150
Mill Reject Tanks - Steel (total)	TN	1	73.21	73.21	128.70	9,421	0.00	0	50.00	3,660
Ash Hoppers - Steel (total)	TN	1	206.24	206.24	128.70	26,543	0.00	0	50.00	10,312
Adaptor/ Slide Plates - Steel	TN	1	7.30	7.30	276.90	2,020	0.00	0	50.00	365
Nonsaleable Ash Conveyor Blower/ Motor	TN	4	1.87	7.46	171.60	1,280	0.00	0	50.00	373
Nonsaleable Ash Fluidizing Blower/ Motor	TN	4	3.41	13.63	171.60	2,340	0.00	0	50.00	682
Fly Ash Precipitator Fluidizing Blower/ Motor	TN	4	2.98	11.90	171.60	2,042	0.00	0	50.00	595
Fly Ash Precipitator Conveyor Blower/ Motor	TN	6	8.93	53.55	171.60	9,189	0.00	0	50.00	2,678
Silo Conveying Blower/ Motor	TN	6	1.87	11.19	171.60	1,920	0.00	0	50.00	560
Bottom Ash Slurry Pump/ Motor	TN	4	6.06	24.25	171.60	4,161	0.00	0	50.00	1,213
Bottom Ash Collection Conveyor	TN	2	8.33	16.67	171.60	2,860	0.00	0	50.00	833
Pyrites Collection Conveyor	TN	2	8.33	16.67	171.60	2,860	0.00	0	50.00	833
Clinker Grinder	TN	8	3.54	28.36	171.60	4,866	0.00	0	50.00	1,418
Flanged Tees - Steel	TN	1	34.64	34.64	276.90	9,591	0.00	0	50.00	1,732
Idlers - Steel	TN	1	6.03	6.03	276.90	1,668	0.00	0	50.00	301
Air Lock Assembly - Steel	TN	178	1.00	178.00	171.60	30,545	0.00	0	50.00	8,900
Exhaust Silencers - Steel	TN	1	8.70	8.70	276.90	2,408	0.00	0	50.00	435
Refractory	CY	1	194.43	194.43	20.64	4,013	78.00	15,166	0.00	0
Bottom Ash Area Sump Pump/ Motor	TN	6	2.29	13.74	171.60	2,358	0.00	0	50.00	687
Economizer Hopper Pressurized Ash Fdr (total)	TN	1	10.20	10.20	171.60	1,750	0.00	0	50.00	510
Air Preheater Hopper Press Ash Feeder (total)	TN	1	13.60	13.60	171.60	2,334	0.00	0	50.00	680
Precip Hopper Pressurized Ash Feeder (total)	TN	1	151.20	151.20	171.60	25,946	0.00	0	50.00	7,560
Precip Ash Strg Silo Pressurized Ash Feeder	TN	16	1.20	19.20	171.60	3,295	0.00	0	50.00	960
Nonsaleable Ash Strg Silo Pressurized Ash Fdr	TN	8	1.20	9.60	171.60	1,647	0.00	0	50.00	480
Stairs, Ladders, Handrailing, Walkways	TN	1	79.21	79.21	276.90	21,933	0.00	0	50.00	3,961
Piping, Vlvs 4" to 8" - Steel	TN	1	791.72	791.72	171.60	135,860	0.00	0	50.00	39,586

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Piping, Vlvs Over 8" - Steel	TN	1	639.05	639.05	128.70	82,245	0.00	0	50.00	31,952
Subtotal						636,958		327,088		132,862
Coal Silo Bays										
Structural Steel	TN	1	3,281.00	3,281.00	128.70	422,265	0.00	0	50.00	164,050
Deck Grating - Steel (2,885 sf)	TN	1	15.58	15.58	276.90	4,314	0.00	0	50.00	779
Handrailing - Steel (2,190 lf)	TN	1	10.95	10.95	276.90	3,032	0.00	0	50.00	548
Ladders/ Stairs - Steel	TN	1	74.00	74.00	276.90	20,491	0.00	0	50.00	3,700
Grade Floor - Reinforced Concrete	CY	1	257.00	257.00	51.60	13,261	78.00	20,046	0.00	0
Floor Slab - Reinforced Concrete	CY	1	545.00	545.00	51.60	28,122	78.00	42,510	0.00	0
Steel Siding (32,466 sf)	TN	1	40.58	40.58	171.60	6,964	0.00	0	50.00	2,029
Built-up Roofing (19,100 sf)	CY	1	26.74	26.74	20.64	552	78.00	2,086	0.00	0
Roof Plating (18,620 sf)	TN	1	27.93	27.93	276.90	7,734	0.00	0	50.00	1,397
Walls - Conc Block (700 sf)	CY	1	11.58	11.58	20.64	239	78.00	903	0.00	0
HVAC Ductwork - Steel	TN	1	53.74	53.74	171.60	9,222	0.00	0	50.00	2,687
Silo Bay Misc. Foundations - Reinf Conc	CY	1	2,200.00	2,200.00	51.60	113,520	78.00	171,600	0.00	0
Subtotal						629,715		237,145		175,189
Miscellaneous Equipment & Steel	TN	1	353.48	353.48	276.90	97,879	0.00	0	50.00	17,674
Total Account 312						12,149,880		3,281,256		3,455,754
FERC Account 314										
Turbogenerator Unit										
Turbogenerator Equipment										
Turbine Pedestal - Reinforced Concrete	CY	1	6,252.00	6,252.00	51.60	322,603	78.00	487,656	0.00	0
Turbine Generator	TN	2	487.77	975.55	97.50	95,116	0.00	0	50.00	48,777
Exciter	TN	2	28.36	56.72	128.70	7,300	0.00	0	50.00	2,836
Generator Copper	TN	1	41.63	41.63	400.00	16,653	0.00	0	710.00	29,559
Main Lube Oil Cooler	TN	4	5.00	20.00	171.60	3,432	0.00	0	50.00	1,000
Lube Oil Conditioning System - Steel	TN	2	4.50	9.00	171.60	1,544	0.00	0	50.00	450
Lube Oil Batch Tank - Steel	TN	2	4.12	8.24	171.60	1,414	0.00	0	50.00	412
Piping, Vlvs Under 4" - Steel	TN	1	12.68	12.68	276.90	3,511	0.00	0	50.00	634
Piping, Vlvs 4" to 8" - Steel	TN	1	12.39	12.39	171.60	2,125	0.00	0	50.00	619
Piping, Vlvs Over 8" - Steel	TN	1	9.02	9.02	128.70	1,161	0.00	0	50.00	451
System Insulation	CY	1	14.33	14.33	39.00	559	8.00	115	0.00	0
Subtotal						455,419		487,771		84,738
Condenser										
Condenser Shell - Steel	TN	2	506.70	1,013.40	171.60	173,899	0.00	0	50.00	50,670
Condenser Tubes - Titanium	TN	1	324.40	324.40	276.90	89,826	0.00	0	1,320.00	428,208
Subtotal						263,725		0		478,878
Circulating Water System										
Circ Water Pump/ Baseplate	TN	4	15.22	60.88	128.70	7,835	0.00	0	50.00	3,044
Circ Water Pump Motor	TN	4	15.50	62.00	128.70	7,979	0.00	0	50.00	3,100
Circ Water Booster Pump/ Motor	TN	4	3.90	15.60	171.60	2,677	0.00	0	50.00	780
Circ Water Piping/ Elbows - 108" Concrete	TN	1	7,684.31	7,684.31	197.80	1,519,957	0.00	0	0.00	0
Piping, Vlvs 4"-8" - Steel	TN	1	3.58	3.58	171.60	615	0.00	0	50.00	179
Piping, Vlvs Over 8" - Steel	TN	1	51.24	51.24	128.70	6,594	0.00	0	50.00	2,562

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Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Subtotal						1,545,658		0		9,665
Auxiliary Equipment										
Condensate Pump	TN	6	15.00	89.98	128.70	11,581	0.00	0	50.00	4,499
Condensate Pump Motor	TN	6	4.78	28.65	171.60	4,916	0.00	0	50.00	1,433
Condensate Pmps/Mtrs Foundation - Reinf Conc	CY	1	1,014.00	1,014.00	51.60	52,322	78.00	79,092	0.00	0
Mechanical Vacuum Pump/ Motor	TN	6	3.00	18.00	171.60	3,089	0.00	0	50.00	900
Condenser Exhauster (skid-mounted)	TN	2	7.50	15.00	171.60	2,574	0.00	0	50.00	750
Steam Packing Exhauster	TN	2	5.45	10.90	171.60	1,870	0.00	0	50.00	545
Piping, Vlvs Under 4" - Steel	TN	1	21.51	21.51	276.90	5,955	0.00	0	50.00	1,075
Piping, Vlvs 4"-8" - Steel	TN	1	30.30	30.30	171.60	5,199	0.00	0	50.00	1,515
Piping, Vlvs Over 8" - Steel	TN	1	220.16	220.16	128.70	28,335	0.00	0	50.00	11,008
Piping Insulation	CY	1	50.17	50.17	39.00	1,957	8.00	401	0.00	0
Subtotal						117,798		79,493		21,725
Closed Cooling Water System										
Closed Cooling Water Pump/ Baseplate	TN	8	3.05	24.40	171.60	4,187	0.00	0	50.00	1,220
Closed Cooling Water Pump Motor	TN	8	6.43	51.44	171.60	8,827	0.00	0	50.00	2,572
Closed Cooling Water Heat Exchanger	TN	6	13.35	80.10	128.70	10,309	0.00	0	50.00	4,005
Closed Cooling Water Heater Drain Tank	TN	2	1.85	3.70	171.60	635	0.00	0	50.00	185
Piping, Vlvs Under 4" - Steel	TN	1	13.87	13.87	276.90	3,841	0.00	0	50.00	693
Piping, Vlvs 4" to 8" - Steel	TN	1	52.17	52.17	171.60	8,953	0.00	0	50.00	2,609
Piping, Vlvs Over 8" - Steel	TN	1	82.17	82.17	128.70	10,576	0.00	0	50.00	4,109
Subtotal						47,327		0		15,393
Cooling Tower										
Foundation - Reinf Conc	CY	1	15,916.00	15,916.00	51.60	821,266	78.00	1,241,448	0.00	0
Diagonal Columns - Reinf Conc	CY	1	2,419.00	2,419.00	51.60	124,820	78.00	188,682	0.00	0
Misc Structures - Reinf Conc	CY	1	220.00	220.00	51.60	11,352	78.00	17,160	0.00	0
Veil - Reinf Conc	CY	1	24,767.00	24,767.00	51.60	1,277,977	78.00	1,931,826	0.00	0
Thrust Blocks - Reinf Conc	CY	1	200.00	200.00	51.60	10,320	78.00	15,600	0.00	0
Fill Support & Flume - Reinf Conc	CY	1	5,896.00	5,896.00	51.60	304,234	78.00	459,888	0.00	0
Precast Fabrication - Reinf Conc	CY	1	4,654.00	4,654.00	51.60	240,146	78.00	363,012	0.00	0
PVC Fill (652,000 cf)	CY	1	3,340.00	3,340.00	51.60	172,344	78.00	260,520	0.00	0
Blowdown Pump/ Motor	TN	4	2.83	11.30	171.60	1,939	0.00	0	50.00	565
Blowdown Pump Pi/Thrust Blocks - Reinf Conc	CY	1	1,044.00	1,044.00	51.60	53,870	78.00	81,432	0.00	0
Blowdown Pump Area - Misc. Steel	TN	1	105.00	105.00	276.90	29,075	0.00	0	50.00	5,250
Interior Walkway (1,350 lf)	TN	2	20.25	40.50	171.60	6,950	0.00	0	50.00	2,025
Exterior Vertical Caged Ladder	TN	2	4.99	9.98	171.60	1,713	0.00	0	50.00	499
Subtotal						3,056,006		4,559,568		8,339
Cooling Tower Chlorination System										
Liquid Chiller Unit	TN	2	4.00	8.00	171.60	1,373	0.00	0	50.00	400
Chlorine Generator (skid-mounted)	TN	4	2.97	11.88	171.60	2,039	0.00	0	50.00	594
ChlorMaster Console Console	TN	2	5.00	10.00	171.60	1,716	0.00	0	50.00	500
Storage Tank - Fiberglass	CY	8	1.03	8.24	20.64	170	78.00	643	0.00	0
Subtotal						5,298		643		1,494
Miscellaneous Equipment & Steel	TN	1	48.24	48.24	276.90	13,356	0.00	0	50.00	2,412

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Total Account 314						5,504,588		5,127,475		622,644
FERC Account 315										
Accessory Electrical Equipment										
Power Conversion Equipment										
6900V Metal Clad Switchgear	TN	2	128.40	256.81	128.70	33,051	0.00	0	50.00	12,840
6900V Non-segregated Phase Bus	TN	1	126.17	126.17	468.00	59,048	0.00	0	710.00	89,582
480V Power Control Centers (total)	TN	1	175.49	175.49	171.60	30,114	0.00	0	50.00	8,775
480V Motor Control Center	TN	30	2.40	72.00	171.60	12,355	0.00	0	50.00	3,600
Auxillary Transformer Shell, Tank, Fittings	TN	4	26.20	104.78	128.70	13,485	0.00	0	50.00	5,239
Auxillary Transformer Copper	TN	1	198.22	198.22	300.00	59,466	0.00	0	710.00	140,736
Isolated Phase Bus Duct (aluminum)	TN	1	566.00	566.00	468.00	264,888	0.00	0	540.00	305,640
AC/DC Rectifier - Cooling Tower Chlorination	TN	2	5.00	10.00	171.60	1,716	0.00	0	50.00	500
Electrostatic Precipitator Electrical Eqmnt	TN	1	750.00	750.00	171.60	128,700	0.00	0	50.00	37,500
Batteries (total)	TN	1	36.00	36.00	276.90	9,968	0.00	0	0.00	0
Battery Chargers (total)	TN	1	3.60	3.60	276.90	997	0.00	0	50.00	180
Uninterruptable Power Supply System	TN	2	23.27	46.54	171.60	7,986	0.00	0	50.00	2,327
Conduit (exposed) - Steel	TN	1	337.80	337.80	276.90	93,536	0.00	0	50.00	16,890
Conduit Ductbank - Reinf Conc	CY	1	15,261.00	15,261.00	51.60	787,468	78.00	1,190,358	0.00	0
Cable Tray - Steel	TN	1	274.05	274.05	276.90	75,884	0.00	0	50.00	13,703
Cable Tray Support Steel	TN	1	109.62	109.62	171.60	18,811	0.00	0	50.00	5,481
Insulated Copper Wiring	TN	1	1,822.60	1,822.60	468.00	852,976	0.00	0	760.00	1,385,174
Ground Wire - Bare Copper	TN	1	105.63	105.63	468.00	49,435	0.00	0	710.00	74,998
FD/ID Fan Bldg - Transformer Shell, Tank, Fitting	TN	4	3.50	13.99	171.60	2,401	0.00	0	50.00	700
FD/ID Fan Bldg - Transformer Shell, Tank, Fitting	TN	2	3.44	6.88	171.60	1,181	0.00	0	50.00	344
FD/ID Fan Bldg - Transformer Shell, Tank, Fitting	TN	8	5.04	40.32	128.70	5,189	0.00	0	50.00	2,016
FD/ID Fan Bldg - Transformer Copper	TN	1	85.39	85.39	300.00	25,618	0.00	0	710.00	60,630
FD/ID Fan Bldg - FD Fan Reactor	TN	6	3.28	19.65	171.60	3,372	0.00	0	50.00	983
FD/ID Fan Bldg - ID Fan Reactor	TN	8	6.85	54.80	171.60	9,404	0.00	0	50.00	2,740
Total Account 315						2,547,050		1,190,358		2,170,576
FERC Account 316										
Misc. Power Plant Equipment										
Station Air Compressor/ Coolers	TN	4	11.15	44.60	128.70	5,740	0.00	0	50.00	2,230
Station Air Compressor Motor	TN	4	6.16	24.64	171.60	4,228	0.00	0	50.00	1,232
Station Air Receiver	TN	2	3.85	7.70	171.60	1,321	0.00	0	50.00	385
Station Air Foundation - Reinf Conc	CY	1	360.00	360.00	51.60	18,576	78.00	28,080	0.00	0
Piping, Vlvs Under 4" - Steel	TN	1	18.96	18.96	276.90	5,250	0.00	0	50.00	948
Piping, Vlvs 4" to 8" - Steel	TN	1	27.29	27.29	171.60	4,683	0.00	0	50.00	1,365
Piping, Vlvs Over 8" - Steel	TN	1	8.97	8.97	128.70	1,154	0.00	0	50.00	448
Total Account 316						40,953		28,080		6,608
FERC Account 353										
Substation Equipment										
Main Power Transformer Shell, Tank, Fittings	TN	4	93.95	375.79	128.70	48,364	0.00	0	50.00	18,790
Main Power Transformer Copper	TN	1	893.01	893.01	300.00	267,903	0.00	0	710.00	634,037
Main Pwr Transformer Foundation - Reinf Conc	CY	1	1,657.00	1,657.00	51.60	85,501	78.00	129,246	0.00	0
Switchyard Overhead Structures - Steel	TN	1	314.00	314.00	128.70	40,412	0.00	0	50.00	15,700
Current Trnsfrm w/ stand - 230kv, oil filled	TN	30	1.89	56.82	171.60	9,750	0.00	0	50.00	2,841
Gas Circuit Breaker Unit - 230 kv, 2000 amp	TN	10	4.57	45.65	171.60	7,834	0.00	0	50.00	2,283

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Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Coal Handling Admin Bldg - Structural Steel	TN	1	8.00	8.00	128.70	1,030	0.00	0	50.00	400
Coal Handling Admin Bldg - Steel Siding	TN	1	1.00	1.00	171.60	172	0.00	0	50.00	50
Refuel Station Foundation - Reinf Concrete	CY	1	26.00	26.00	51.60	1,342	78.00	2,028	0.00	0
Subtotal						28,983		35,648		1,998
Total Account 311						368,089		502,169		11,987
FERC Account 312										
Boiler Plant Service Equipment										
Coal Terminal - Conveyor System										
Coal Ship Unloader	TN	1	1652.87	1652.87	128.70	212,724	0.00	0	50.00	82,643
Trusses & Galleries	TN	1	2609.80	2609.80	128.70	335,881	0.00	0	50.00	130,490
Transfer Stations	TN	1	275.50	275.50	128.70	35,457	0.00	0	50.00	13,775
Mechanical Components	TN	1	635.00	635.00	171.60	108,966	0.00	0	50.00	31,750
Platwork - Steel	TN	1	34.50	34.50	171.60	5,920	0.00	0	50.00	1,725
Fire Protection System/ Piping	TN	1	98.00	98.00	171.60	16,817	0.00	0	50.00	4,900
Vacuum Cleaning System/ Piping	TN	1	60.00	60.00	171.60	10,296	0.00	0	50.00	3,000
Conveyor Tower Foundations - Reinf Conc	CY	1	1897.00	1897.00	51.60	97,885	78.00	147,966	0.00	0
Transfer Station Foundations - Reinf Conc	CY	1	181.00	181.00	51.60	9,340	78.00	14,118	0.00	0
Subtotal						833,286		162,084		268,283
Stacker & Reclaimer/ Runway										
Coal Stacker	TN	1	50.94	50.94	276.90	14,104	0.00	0	50.00	2,547
Coal Reclaimer	TN	1	50.94	50.94	276.90	14,104	0.00	0	50.00	2,547
Foundations - Reinforced Concrete	CY	1	50.94	50.94	51.60	2,628	78.00	0	0.00	0
Pre-cast Girders (1,714 lf)	CY	1	50.94	50.94	51.60	2,628	78.00	0	0.00	0
Rails - Steel (1,756 lf)	TN	1	50.94	50.94	276.90	14,104	0.00	0	50.00	2,547
Subtotal						47,569		0		7,640
Coal/ Limestone Handling (Dumper) Building										
Structural Steel	TN	1	832.50	832.50	128.70	107,143	0.00	0	50.00	41,625
Deck Grating - Steel (932 sf)	TN	1	5.03	5.03	276.90	1,394	0.00	0	50.00	252
Handrailing (809 lf)	TN	1	4.05	4.05	276.90	1,120	0.00	0	50.00	202
Steel Siding/ Roofing (48,800 lf)	TN	1	61.00	61.00	171.60	10,468	0.00	0	50.00	3,050
Structure & Foundation - Reinforced Concrete	CY	1	14116.00	14116.00	51.60	728,386	78.00	1,101,048	0.00	0
Car Positioner & Drive Shed - Reinf Concrete	CY	1	586.00	586.00	51.60	30,238	78.00	45,708	0.00	0
Car Clamp, Rotation Drive, Wheel Clamp Assembly	TN	1	23.80	23.80	128.70	3,063	0.00	0	50.00	1,190
Rotary Car Dumper Platen/ End Rings - Steel	TN	1	65.39	65.39	128.70	8,415	0.00	0	50.00	3,269
Rotary Car Dumper Hauling Cable	TN	1	2.64	2.64	276.90	730	0.00	0	50.00	132
Rotary Car Dumper Trunnion Assemblies	TN	1	5.00	5.00	171.60	858	0.00	0	50.00	250
Hydraulic Car Mover Motor - 125 hp	TN	1	1.29	1.29	171.60	222	0.00	0	50.00	65
10-ton Take-up Winch/ Frames	TN	1	11.30	11.30	128.70	1,454	0.00	0	50.00	565
Unloading System Logic Cabinets - Steel	TN	1	1.50	1.50	171.60	257	0.00	0	50.00	75
Dust Suppression System Tank/ Pump/ Motor-Stl	TN	1	1.50	1.50	171.60	257	0.00	0	50.00	75
Rotary Car Dump Pit Sump Pump/ Motor	TN	1	1.73	1.73	171.60	297	0.00	0	50.00	86
Bottom Car Dump Pit Sump Pump/ Motor	TN	1	1.73	1.73	171.60	297	0.00	0	50.00	86
Coal Handling Control Board	TN	1	2.50	2.50	171.60	429	0.00	0	50.00	125
Coal Unloading Control Console	TN	1	1.50	1.50	171.60	257	0.00	0	50.00	75
Limestone Handling Control Console	TN	1	1.50	1.50	171.60	257	0.00	0	50.00	75
Tripper Interface Logic Cabinet	TN	1	1.50	1.50	171.60	257	0.00	0	50.00	75

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Limestone Rail Car Mover - Mechanical	TN	1	15.25	15.25	171.60	2,617	0.00	0	50.00	763
Limestone Rail Car Mover - Hydraulic Unit	TN	1	1.25	1.25	171.60	215	0.00	0	50.00	63
Limestone Feeder	TN	3	3.05	9.14	171.60	1,568	0.00	0	50.00	457
Subtotal						900,199		1,146,756		52,554
<u>Coal Conveyor System</u>										
Coal Stacker-Reclaimer	TN	1	320.00	320.00	128.70	41,184	0.00	0	50.00	16,000
Coal Stacker-Reclaimer Rails - Steel	TN	1	51.30	51.30	276.90	14,205	0.00	0	50.00	2,565
Coal Stacker-Reclaimer Foundation - Rnf Conc	CY	1	3360.00	3360.00	51.60	173,376	78.00	262,080	0.00	0
Coal Stacker-Reclaimer Aux/ Auto Panel	TN	1	1.00	1.00	171.60	172	0.00	0	50.00	50
Cnvyr Bents/ Take-up Twr Fndtns - Reinf Conc	CY	1	4711.00	4711.00	51.60	243,088	78.00	367,458	0.00	0
Emergency Reclaim Foundation - Reinf Concrete	CY	1	2957.00	2957.00	51.60	152,581	78.00	230,646	0.00	0
Lowering Well Stackout Fndation - Reinf Conc	CY	1	496.00	496.00	51.60	25,594	78.00	38,688	0.00	0
Conveyor Tunnel - Reinforced Concrete	CY	1	3380.00	3380.00	51.60	174,408	78.00	263,640	0.00	0
Coal Crusher Floor - Reinforced Concrete	CY	1	100.00	100.00	51.60	5,160	78.00	7,800	0.00	0
Head House Floor - Reinforced Concrete	CY	1	77.00	77.00	51.60	3,973	78.00	6,006	0.00	0
Coal Crusher/ Handling Bldg - Reinf Concrete	CY	1	1054.00	1054.00	51.60	54,386	78.00	82,212	0.00	0
Conveyor Belting - Rubber w/ Steel Cord	TN	1	146.33	146.33	20.64	3,020	78.00	11,414	0.00	0
CD Magnetic Separator - Magnet	TN	1	8.65	8.65	171.60	1,484	0.00	0	50.00	433
CD Magnetic Separator - Separator Unit	TN	1	10.65	10.65	128.70	1,371	0.00	0	50.00	533
C-2 Magnetic Separator - Magnet	TN	1	3.90	3.90	171.60	669	0.00	0	50.00	195
C-2 Magnetic Separator - Separator Unit	TN	1	5.45	5.45	171.60	935	0.00	0	50.00	273
C-3 Magnetic Separator - Magnet	TN	1	2.75	2.75	171.60	472	0.00	0	50.00	138
C-3 Magnetic Separator - Separator Unit	TN	1	3.30	3.30	171.60	566	0.00	0	50.00	165
C-4 Magnetic Separator - Magnet	TN	1	6.15	6.15	171.60	1,055	0.00	0	50.00	308
C-4 Magnetic Separator - Separator Unit	TN	1	7.00	7.00	171.60	1,201	0.00	0	50.00	350
C-1, C-2, C-3, C-4 Conveyor Motors	TN	5	5.10	25.50	171.60	4,376	0.00	0	50.00	1,275
C-5 Conveyor Motor	TN	1	2.04	2.04	171.60	350	0.00	0	50.00	102
C-6 Conveyor Motor	TN	1	1.28	1.28	171.60	219	0.00	0	50.00	64
C-7, C-8 Conveyor Motors	TN	2	3.06	6.12	171.60	1,050	0.00	0	50.00	306
Conveyor System Pulleys	TN	1	164.65	164.65	171.60	28,254	0.00	0	50.00	8,232
Conveyor System Counterweights	TN	1	47.76	47.76	171.60	8,196	0.00	0	50.00	2,388
Conveyor System Speed Reducers/ Couplings	TN	1	54.20	54.20	171.60	9,301	0.00	0	50.00	2,710
Coal Dust Collector System - Plant	TN	1	10.35	10.35	171.60	1,776	0.00	0	50.00	518
Coal Dust Collector/ Fan Mtr - Unloading Area	TN	1	4.85	4.85	171.60	832	0.00	0	50.00	243
Coal Dust Collector/ Fan Motor - Tower "C"	TN	1	4.73	4.73	171.60	811	0.00	0	50.00	236
Coal Dust Collector/ Fan Mtr - Crusher House	TN	1	7.65	7.65	171.60	1,313	0.00	0	50.00	383
Vacuum Cleaning Exhauster/ Motor - Steel	TN	5	1.00	5.00	276.90	1,385	0.00	0	50.00	250
Coal Sampling System	TN	1	15.00	15.00	128.70	1,931	0.00	0	50.00	750
Coal Sampling Bucket Elevator	TN	2	8.75	17.50	171.60	3,003	0.00	0	50.00	875
Mill & Chemical Motors	TN	1	3.99	3.99	276.90	1,106	0.00	0	50.00	200
Chain Adjuster Assembly	TN	1	1.67	1.67	171.60	287	0.00	0	50.00	84
Structural Steel	TN	1	2505.90	2505.90	128.70	322,509	0.00	0	50.00	125,295
Bents & Galleries - Steel	TN	1	1577.50	1577.50	128.70	203,024	0.00	0	50.00	78,875
Handrailing - Steel (12,370 lf)	TN	1	61.85	61.85	276.90	17,126	0.00	0	50.00	3,093
Deck Grating - Steel (17,616 sf)	TN	1	95.13	95.13	276.90	26,341	0.00	0	50.00	4,756
Steel Roofing/ Siding (246,400 sf)	TN	1	308.00	308.00	171.60	52,853	0.00	0	50.00	15,400
HVAC Ducting - Steel	TN	1	36.78	36.78	171.60	6,312	0.00	0	50.00	1,839
Hoppers/ Feeders - Steel	TN	1	424.70	424.70	128.70	54,659	0.00	0	50.00	21,235
Emergency Reclaim Pit Sump Pump/ Motor	TN	1	1.61	1.61	171.60	277	0.00	0	50.00	81

ST. JOHNS RIVER POWER PARK

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Coal Crusher - Steel	TN	2	6.74	13.48	171.60	2,312	0.00	0	50.00	674
Coal Crusher Motor - 500 hp	TN	2	5.70	11.40	171.60	1,956	0.00	0	50.00	570
Tripper Deck Car	TN	2	5.00	10.00	171.60	1,716	0.00	0	50.00	500
Tripper Deck Car Speed Reducers	TN	1	1.30	1.30	276.90	360	0.00	0	50.00	65
Tripper Car Pulleys	TN	1	3.63	3.63	276.90	1,005	0.00	0	50.00	182
Tripper Car Rail (60#/yd)	TN	1	32.40	32.40	276.90	8,972	0.00	0	50.00	1,620
Coal Silo - Steel	TN	14	44.79	627.06	128.70	80,703	0.00	0	50.00	31,353
Coal Pulverizer - Steel	TN	14	192.43	2694.00	128.70	346,718	0.00	0	50.00	134,700
Coal Pulverizer Motor	TN	14	6.43	90.02	171.60	15,447	0.00	0	50.00	4,501
Interface Logic Cabinet - Steel	TN	1	2.50	2.50	171.60	429	0.00	0	50.00	125
Fuel Mgmt System Logic Cabinet - Steel	TN	1	2.63	2.63	171.60	450	0.00	0	50.00	131
Subtotal						2,106,257		1,269,944		464,616
<u>Limestone Conveyor System & Reagent Area</u>										
Structural Steel	TN	1	192.80	192.80	128.70	24,813	0.00	0	50.00	9,640
Bents & Galleries - Steel	TN	1	80.00	80.00	128.70	10,296	0.00	0	50.00	4,000
Handrailing (1,664 lf)	TN	1	8.32	8.32	276.90	2,304	0.00	0	50.00	416
Deck Grating - Steel (2,545 sf)	TN	1	13.74	13.74	276.90	3,805	0.00	0	50.00	687
Roofing/ Siding - Steel (13,900 sf)	TN	1	17.38	17.38	171.60	2,982	0.00	0	50.00	869
Hoppers/ Feeders - Steel	TN	1	96.90	96.90	128.70	12,471	0.00	0	50.00	4,845
Conveyor Belting - Rubber w/ Steel Cord	CY	1	8.59	8.59	20.64	177	78.00	670	0.00	0
LD Magnetic Separator - Magnet	TN	1	4.65	4.65	171.60	798	0.00	0	50.00	233
LD Magnetic Separator - Separator Unit	TN	1	5.40	5.40	171.60	927	0.00	0	50.00	270
Limestone Transfer House - Reinf Concrete	CY	1	517.00	517.00	51.60	26,677	78.00	40,326	0.00	0
L-1 Conveyor Motor	TN	1	3.06	3.06	171.60	525	0.00	0	50.00	153
L-2 Conveyor Motor	TN	1	1.53	1.53	171.60	263	0.00	0	50.00	77
Conveyor System Pulleys	TN	1	19.06	19.06	171.60	3,270	0.00	0	50.00	953
Conveyor System Counterweights	TN	1	7.12	7.12	171.60	1,222	0.00	0	50.00	356
Conveyor System Speed Reducers/ Couplings	TN	1	10.74	10.74	171.60	1,843	0.00	0	50.00	537
Limestone Slewing Stacker Reducer- Boom Cnvyr	TN	1	3.25	3.25	171.60	558	0.00	0	50.00	163
Limestone Slewing Stacker Reducer - Slew	TN	1	7.50	7.50	171.60	1,287	0.00	0	50.00	375
Limestone Slewing Stacker Reducer - Luffing	TN	1	3.00	3.00	171.60	515	0.00	0	50.00	150
Limestone Reclaim Pit & Tunnel - Reinf Conc	CY	1	1335.00	1335.00	51.60	68,886	78.00	104,130	0.00	0
Limestone Conveyor Tunnel - Reinf Concrete	CY	1	2015.00	2015.00	51.60	103,974	78.00	157,170	0.00	0
Limestone Ball Mill	TN	2	67.36	134.73	128.70	17,339	0.00	0	50.00	6,736
Limestone Ball Mill Motor	TN	2	3.05	6.10	171.60	1,047	0.00	0	50.00	305
Limestone Dust Collector/ Fan Mtr - Unloading	TN	1	4.85	4.85	171.60	832	0.00	0	50.00	243
Limestone Dust Collector/ Fan Mtr - Tower "L"	TN	1	4.30	4.30	171.60	738	0.00	0	50.00	215
Limestone Silo - Steel	TN	2	41.50	83.00	128.70	10,682	0.00	0	50.00	4,150
Ball Mill Slurry Sump Tank/ Agitator/ Motor	TN	2	3.24	6.48	171.60	1,112	0.00	0	50.00	324
Reagent Prep Enclosure Foundation - Rnf Conc	CY	1	191.27	191.27	51.60	9,870	78.00	14,919	0.00	0
Reagent Preparation Enclosure - Struc Steel	TN	1	165.26	165.26	128.70	21,269	0.00	0	50.00	8,263
Reagent Prep Enclosure Roofing/Siding - Steel	TN	1	7.70	7.70	171.60	1,321	0.00	0	50.00	385
Reagent Preparation Enclosure - Misc. Steel	TN	1	19.12	19.12	276.90	5,294	0.00	0	50.00	956
Reagent Feed Tank - Steel	TN	4	49.50	198.00	128.70	25,483	0.00	0	50.00	9,900
Reagent Feed Agitator/ Motor	TN	4	2.00	8.00	171.60	1,373	0.00	0	50.00	400
Subtotal						363,952		317,215		55,599
<u>Dumper Bldg/ Conveyor Systems - Misc. Items</u>										
Conveyor Idlers - Steel	TN	1	247.85	247.85	276.90	68,631	0.00	0	50.00	12,393

ST. JOHNS RIVER POWER PARK

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Conveyor Backstops - Steel	TN	1	2.51	2.51	276.90	696	0.00	0	50.00	126
Gates/ Gate Operators - Steel	TN	1	16.50	16.50	171.60	2,831	0.00	0	50.00	825
Belt Scales - Steel	TN	1	16.10	16.10	171.60	2,762	0.00	0	50.00	805
Belt Plows & Cleaners - Steel	TN	1	4.53	4.53	276.90	1,254	0.00	0	50.00	226
Hoists & Trolleys	TN	1	15.34	15.34	276.90	4,248	0.00	0	50.00	767
Power Tracks - Steel	TN	1	9.21	9.21	171.60	1,580	0.00	0	50.00	460
Conveyor Soft Starters - Steel	TN	1	5.20	5.20	171.60	892	0.00	0	50.00	260
Piping, Valves Under 4" - Steel	TN	1	14.95	14.95	276.90	4,140	0.00	0	50.00	748
Piping, Valves 4" to 8" - Steel	TN	1	323.93	323.93	171.60	55,587	0.00	0	50.00	16,197
Fiberglass-reinforced Piping (FRP)	TN	1	2.50	2.50	20.64	52	78.00	195	0.00	0
Subtotal						142,672		195		32,806
Total Account 312						4,029,983		2,578,979		825,900
FERC Account 315										
Accessory Electrical Equipment										
Coal Terminal										
Transformer Shell - Distribution Yard	TN	1	2.30	2.30	171.60	395	0.00	0	50.00	115
Transformer Shell - Distribution Yard	TN	1	1.00	1.00	171.60	172	0.00	0	50.00	50
Transformer Copper	TN	1	3.96	3.96	300.00	1,188	0.00	0	710.00	2,812
Conveyor Electrical Equipment	TN	1	97.00	97.00	171.60	16,645	0.00	0	50.00	4,850
Copper Wiring - Bare (37,568 lf)	TN	1	9.39	9.39	468.00	4,395	0.00	0	710.00	6,668
Distribution Yard Bldgs & Misc. Steel	TN	1	3.00	3.00	276.90	831	0.00	0	50.00	150
Distribution Yard Electrical Equipment	TN	1	4.00	4.00	276.90	1,108	0.00	0	50.00	200
Distribution Yard Foundations - Reinf Conc	CY	1	20.00	20.00	51.60	1,032	78.00	1,560	0.00	0
Coal/Limestone Handling Trnsfrmer - 7,500 kva	TN	2	6.38	12.76	171.60	2,190	0.00	0	50.00	638
Coal/Limestone Handling Transformer Copper	TN	1	17.63	17.63	300.00	5,290	0.00	0	710.00	12,519
Transf Foundtns/ Relainer Walls - Reinf Conc	CY	1	10.72	10.72	51.60	553	78.00	836	0.00	0
Dumper Bldg - Power Control Center	TN	2	7.15	14.31	171.60	2,455	0.00	0	50.00	715
Dumper Bldg - Motor Control Center	TN	2	2.40	4.80	171.60	824	0.00	0	50.00	240
Dumper Bldg - GE Adj Speed Drive Cabinets	TN	1	3.00	3.00	276.90	831	0.00	0	50.00	150
Copper Wiring - Insulated	TN	1	27.19	27.19	468.00	12,726	0.00	0	760.00	20,666
Copper Wiring - Bare	TN	1	3.39	3.39	468.00	1,588	0.00	0	710.00	2,409
Conduit - Steel	TN	1	1024.56	1024.56	276.90	283,700	0.00	0	50.00	51,228
Cable Tray - Steel	TN	1	5.52	5.52	276.90	1,528	0.00	0	50.00	276
Total Account 315						337,450		2,396		103,687
TOTAL COAL & LIMESTONE FACILITY						4,735,522		3,083,543		941,573
GYPSUM & ASH HANDLING										
FERC Account 312										
Boiler Plant Service Equipment										
Flue Gas Desulfurization (FGD) - Dewatering Area										
Structural Steel	TN	1	108.00	108.00	128.70	13,900	0.00	0	50.00	5,400
Ladders/Handrailing/Platform Walkway - Steel	TN	1	5.40	5.40	276.90	1,495	0.00	0	50.00	270
Siding/ Roofing - Steel	TN	1	20.79	20.79	171.60	3,568	0.00	0	50.00	1,040
Return Water Tank - Steel	TN	2	13.50	27.00	128.70	3,475	0.00	0	50.00	1,350
Reslurry Tank - Steel	TN	2	4.50	9.00	171.60	1,544	0.00	0	50.00	450
Reslurry Tank Agitator/ Motor	TN	2	1.35	2.70	171.60	463	0.00	0	50.00	135
Reslurry Pump/ Motor	TN	4	1.01	4.05	171.60	695	0.00	0	50.00	203

ST. JOHNS RIVER POWER PARK

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Compressant Water Tank - Steel	TN	4	2.30	9.20	171.60	1,579	0.00	0	50.00	460
Filtrate Return Pump/ Motor	TN	16	1.08	17.24	171.60	2,958	0.00	0	50.00	862
Return Water Pump/ Motor	TN	4	1.08	4.31	171.60	740	0.00	0	50.00	216
Vacuum Filter Pump/ Motor	TN	8	4.52	36.17	171.60	6,206	0.00	0	50.00	1,808
1st Stage Vacuum Filter Drum - Steel	TN	4	15.50	62.00	128.70	7,979	0.00	0	50.00	3,100
2nd Stage Vacuum Filter Drum - Steel	TN	4	15.50	62.00	128.70	7,979	0.00	0	50.00	3,100
Portable Gypsum Conveyor	TN	1	12.00	12.00	128.70	1,544	0.00	0	50.00	600
Overhead Crane/ I-beam Support	TN	1	3.00	3.00	171.60	515	0.00	0	50.00	150
Dewatering Control Console - Steel	TN	1	2.00	2.00	171.60	343	0.00	0	50.00	100
Piping, Valves Under 4" - Steel	TN	1	3.26	3.26	276.90	902	0.00	0	50.00	163
Piping, Valves 4" to 8" - Steel	TN	1	30.22	30.22	171.60	5,186	0.00	0	50.00	1,511
Piping, Valves Over 8" - Steel	TN	1	6.57	6.57	128.70	845	0.00	0	50.00	328
Fiberglass-reinforced Piping (FRP)	CY	1	25.11	25.11	20.64	518	78.00	1,958	0.00	0
Subtotal						62,436		1,958		21,245
<u>Gypsum Conveyor System & Storage Area</u>										
Gypsum Conveyor	TN	1	22.00	22.00	128.70	2,831	0.00	0	50.00	1,100
Gypsum Conveyor/ Tower Fndtn - Reinf Conc	CY	1	638.00	638.00	51.60	32,921	78.00	49,764	0.00	0
Gypsum Conveyor Pulleys	TN	1	4.52	4.52	276.90	1,250	0.00	0	50.00	226
Gypsum Conveyor Counterweights	TN	1	3.95	3.95	276.90	1,094	0.00	0	50.00	198
Gypsum Conveyor Speed Reducers/ Drives	TN	1	7.03	7.03	276.90	1,947	0.00	0	50.00	352
Storage Area Fndtn/Retainer Wall - Reinf Conc	CY	1	1893.00	1893.00	51.60	97,679	78.00	147,654	0.00	0
Storage Area Structural Steel	TN	1	270.00	270.00	128.70	34,749	0.00	0	50.00	13,500
Storage Area Siding/ Roofing - Steel	TN	1	81.00	81.00	171.60	13,900	0.00	0	50.00	4,050
Pre-sedimentation Basin - Reinforced Concrete	CY	1	4745.00	4745.00	51.60	244,842	78.00	370,110	0.00	0
Subtotal						431,213		567,528		19,425
<u>Ash Storage Area Buildings (Solid Waste Area)</u>										
Foundations - Reinforced Concrete	CY	1	3601.00	3601.00	51.60	185,812	78.00	280,878	0.00	0
Walls - Reinforced Concrete	CY	1	125.07	125.07	51.60	6,454	78.00	9,755	0.00	0
Roofs - Reinforced Concrete	CY	1	240.16	240.16	51.60	12,392	78.00	18,732	0.00	0
Built-up Roofing	CY	1	6.81	6.81	20.64	140	78.00	531	0.00	0
Walls - Concrete Block	CY	1	112.92	112.92	20.64	2,331	78.00	8,808	0.00	0
Support Steel (Solid Waste Handlg Admin Bldg)	TN	1	10.00	10.00	171.60	1,716	0.00	0	50.00	500
HVAC	TN	1	8.00	8.00	171.60	1,373	0.00	0	50.00	400
Overhead Crane/ Rail	TN	1	1.00	1.00	171.60	172	0.00	0	50.00	50
Subtotal						210,389		318,704		950
<u>Ash Storage Area (Solid Waste Area)</u>										
Nonsaleable Ash Storage Silo - Reinf Conc	CY	2	229.07	458.14	51.60	23,640	78.00	35,735	0.00	0
Precipitator Ash Storage Silo - Reinf Conc	CY	4	631.67	2526.68	51.60	130,377	78.00	197,081	0.00	0
Ash Silos - Steel (total)	TN	1	139.64	139.64	128.70	17,971	0.00	0	50.00	6,982
Hydrobins - Steel (total)	TN	1	290.27	290.27	128.70	37,358	0.00	0	50.00	14,514
Hydrobin Gate Assembly - Steel	TN	30	2.89	86.70	171.60	14,878	0.00	0	50.00	4,335
Hydrobin Bar Screens/ Splash Pans	TN	1	3.66	3.66	276.90	1,013	0.00	0	50.00	183
Stationary & Floating Decanters - Steel	TN	1	16.90	16.90	276.90	4,680	0.00	0	50.00	845
Fly Ash Wetting Pump/ Motor	TN	8	1.54	12.34	171.60	2,118	0.00	0	50.00	617
Intermittent HP Ash Water Pump/ Motor	TN	4	3.62	14.49	171.60	2,486	0.00	0	50.00	725
Intermittent LP Ash Water Pump/ Motor	TN	4	1.52	6.06	171.60	1,040	0.00	0	50.00	303
Loadout Tower - Steel	TN	2	7.51	15.03	171.60	2,578	0.00	0	50.00	751

ST. JOHNS RIVER POWER PARK

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Compo- nents	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Ash Water Surge Tank - Steel	TN	2	108.66	217.33	128.70	27,970	0.00	0	50.00	10,866
Ash Water Settling Tank - Steel	TN	2	74.94	149.89	128.70	19,290	0.00	0	50.00	7,494
Air Compressor	TN	1	2.00	2.00	171.60	343	0.00	0	50.00	100
Storage Silo Control Cabinet	TN	2	2.00	4.00	171.60	686	0.00	0	50.00	200
Dewatering Bin Control Cabinet	TN	2	2.00	4.00	171.60	686	0.00	0	50.00	200
Fly Ash Storage Silo Control/ Logic Cabinet	TN	1	2.00	2.00	171.60	343	0.00	0	50.00	100
Fly Ash Loadout Silo Control Cabinet	TN	1	1.50	1.50	171.60	257	0.00	0	50.00	75
Expansion Joints - Steel	TN	1	11.41	11.41	276.90	3,161	0.00	0	50.00	571
Truck/ Track Scales - Structural Steel	TN	1	4.88	4.88	128.70	628	0.00	0	50.00	244
Jib Crane Arms (9 total)	TN	1	11.07	11.07	171.60	1,899	0.00	0	50.00	553
Handrailing, Walkways, Ladders, Grating	TN	1	102.90	102.90	276.90	28,493	0.00	0	50.00	5,145
Dust Collector System	TN	1	5.50	5.50	171.60	944	0.00	0	50.00	275
Manhole Frames & Covers - Steel	TN	1	1.96	1.96	276.90	543	0.00	0	50.00	98
Filtering Plenum - Steel	TN	2	5.50	11.00	171.60	1,888	0.00	0	50.00	550
Piping, Valves 4" to 8" - Steel	TN	1	36.27	36.27	171.60	6,224	0.00	0	50.00	1,814
Piping Supports/ Braces - Steel	TN	1	10.00	10.00	171.60	1,716	0.00	0	50.00	500
Subtotal						333,210		232,816		58,039
Total Account 312						1,037,248		1,121,007		99,659
TOTAL GYPSUM & ASH HANDLING						1,037,248		1,121,007		99,659
GRAND TOTAL SJRPP						33,154,786		21,291,767		9,221,721

TURKEY POINT FOSSIL PLANT

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Turkey Point Fossil

The Turkey Point Power Plant is located on a 12,700-acre site on Biscayne Bay in Dade County, approximately thirteen miles south of Miami, Florida. There are two fossil generating units (Units 1 & 2), two nuclear generating units (Units 3 & 4), and a large network of cooling canals at the site. The nuclear generating units and the cooling canals are excluded from this depreciation study.

The original design of Turkey Point Fossil Units was for natural gas or oil-fired operation with provisions for future conversion to coal. Both units currently operate on natural gas with #6 heavy oil as alternate. The two units have a combined maximum generator name plate rating of 804 megawatts. The Units No. 1 & 2 went into commercial operation in 1967 and 1968, respectively.

There are two # 6 heavy oil tanks on site supplied via Biscayne Bay primarily by the use of barges. The fuel gas is transported by a pipeline connected to the Florida Gas Transmission System.

Florida Power & Light Company last requested and received approval for a change in dismantlement accruals for the Turkey Point Fossil Units 1 & 2 in Docket No. 941343-EI, FPSC Order No. PSC-95-1532-FOF-EI, issued December 12, 1995. These accruals had become effective January 1, 1995.

**TURKEY POINT FOSSIL
SUMMARY OF DISMANTLEMENT COSTS**

FERC Account	Description	Removal Cost (A)	Disposal Cost (B)	Salvage Value (C)	Total (D)=(A + B - C)
<u>Turkey Point Common</u>					
<u>Production Plant</u>					
311	Structures and Improvements	543,137	1,598,641	166,600	1,975,179
312	Boiler Plant Equipment	13,778	24,510	2,275	36,013
314	Turbogenerator Units	0	0	0	0
315	Accessory Electrical Equipment	16,858	0	15,168	1,689
316	Miscellaneous Equipment	0	0	0	0
	Subtotal	573,772	1,623,151	184,043	2,012,880
<u>Transmission Plant</u>					
353	Substation Equipment	108,717	91,464	58,842	141,339
<u>Other Site Costs:</u>					
	Site Mangement Expenses	572,832			572,832
	Intake & Discharge Backfill	50,258			50,258
	Grading & Seeding	1,231,007			1,231,007
	Subtotal	1,854,097	0	0	1,854,097
	Total	2,536,586	1,714,615	242,885	4,008,317
	Contingency 16%	405,854	274,338		680,192
	Total Turkey Point Common	2,942,440	1,988,954	242,885	4,688,509
	Total Unusable M&S Inventory	268,924		40,339	228,585
		3,211,364	1,988,954	283,223	4,917,094
<u>Turkey Point Units 1 & 2</u>					
311	Structures and Improvements	1,284,072	2,411,512	112,632	3,582,952
312	Boiler Plant Equipment	7,851,660	1,078,294	928,682	8,001,272
314	Turbogenerator Units	2,775,838	650,748	336,637	3,089,949
315	Accessory Electrical Equipment	386,384	288,600	372,186	302,798
316	Miscellaneous Equipment	7,061	0	1,555	5,506
	Subtotal	12,305,015	4,429,154	1,751,692	14,982,477
	Contingency 16%	1,968,802	708,665		2,677,467
	Total Turkey Point Units 1 & 2	14,273,817	5,137,819	1,751,692	17,659,944
	Total Dismantlement Cost:	17,485,181	7,126,772	2,034,915	22,577,038

**TURKEY POINT FOSSIL
DISMANTLEMENT COST FOR INFLATION PROJECTION**

Description	Labor (A)	Material & Equipment (B)	Burial (C)	Salvage (D)	Total (A) + (B) + (C) - (D)
Turkey Point Common	1,765,464	1,445,900	1,988,954	283,223	4,917,094
Turkey Point Units 1 & 2	8,564,290	5,709,527	5,137,819	1,751,692	17,659,944
Total	10,329,754	7,155,427	7,126,772	2,034,915	22,577,038

Labor is 60% of Removal Cost from Summary of Dismantlement Costs.
 Material & Equipment is 40% of Removal Cost from Summary of Dismantlement Costs.
 Burial is 100% of Disposal Cost from Summary of Dismantlement Costs.
 Salvage is 100% of Salvage from Summary of Dismantlement Costs.

TURKEY POINT FOSSIL DISMANTLEMENT ASSUMPTIONS

FPL will provide management personnel for the dismantlement effort.

FPL will prepare the request for proposal package and solicit bids for the decommissioning effort.

FPL will provide site security during the dismantlement.

FPL will hire a demolition contractor to perform the actual dismantling work. This contractor will have the salvage rights to all plant equipment and structural material.

The land will be made available for future use.

All dismantling work will be done in accordance with OSHA regulations.

The fuel oil storage tanks will be cleaned and their contents disposed of according to the requirements of current regulations.

The following items will be removed:

- a. All structures, equipment, and concrete pads, pedestals, foundations, etc.;
- b. All underground gas, oil, sewer and water piping and electrical conduits (underground concrete piping to be collapsed);
- c. All hazardous and contaminated materials, e.g., acid filled lead batteries, oil tank residue.

Discussions with FPL's Power Generation Services Department (PGS) indicate that the return of the site to a green field condition entails removal of all structures above the wood pilings and steel-encased concrete pilings. The removal of the pilings would be unfeasible and, therefore, will remain in place.

The turbine pedestals and chimney will be control-blasted.

Scrap will be unprepared, i.e., cut only to the extent required to load the pieces on scrap dealers' trailers. Trucking costs for removal are paid by the scrap dealer and are reflected in the salvage value paid.

The estimate does not reflect land value or its resale.

The productivity factors employed are assumed valid for purposes of this study.

A contingency of 16% has been applied to the total removal and disposal costs. This contingency percentage covers costs associated with delays occurring after dismantlement begins due to such causes as equipment failure and weather delays.

The costs of such overhead items as project management, site security, etc., have been estimated by FPL's PGS Department. These costs are listed on the cost summary pages for each site's dismantlement study.

All materials and equipment are assumed to be either fully salvageable or to be disposed of completely. The availability of powerful cutting shears makes possible the cutting of even the heaviest steel to a size that permits salvage as scrap. Any unusable materials and supplies inventory will be sold as scrap. Estimated balances of such inventory (with an assumption of a 15% salvage value) have been included on the cost summary pages for each site's dismantlement study.

A 30% swell factor is used to compute the disposal cost per cubic yard of concrete. One cubic yard of concrete becomes 1.3 cubic yards of concrete rubble after demolition.

The switchyard and ancillary equipment (FERC account 353) will remain in place with the exception of the main power transformers, oil circuit breakers, superstructures, and foundations associated with the tie-in of plant generated power in the switchyard.

The turbine pedestals and chimneys will be control-blasted.

Transformer and circuit breaker insulating oils are assumed not to contain PCB's. Therefore, the transformers and oil circuit breakers will be salvageable.

It is assumed that dismantlement activity at Turkey Point will begin five years after end of service. The end of service dates used for this assumption conform to the economic recovery period ending dates used in the Turkey Point Fossil plant depreciation study filed as of year end 1997.

Currently, asbestos abatement is driven by maintenance considerations and it is not appropriate to assume an asbestos free condition by the units' end of service dates. Though some abatement has occurred, substantial amounts of asbestos remain and can be expected to require abatement at final dismantlement. FPL's PGS Department has estimated the cost of asbestos removal at \$1,250 per cubic yard and disposal at \$100 per cubic yard. This rate is supported by recent FPL experience.

DISMANTLING ACTIVITIES: OIL & GAS & OTHER PRODUCTION PLANTS

- Remove loose equipment, furniture, and spare parts.
- Drain liquids, drum-up, and dispose of drums.
- Remove hazardous materials; i.e., leads (alkaline), acids, solvents, lubricants, oils, chemicals, and gasses.
- Strip all insulation and covering, package and remove to acceptable landfill.
- Collapse circulating water lines and backfill trenches.
- Remove main steam, hot and cold piping, downcomers, valves, and supports, pumps, motors, generator auxiliary equipment, feedwater heaters, soot blowers, and condensers.
- Remove intake and discharge structures, equipment pumps, piping and valves.
- Remove systems that must be completed prior to the start of the boiler removal including lube oil pumps, all piping, instrument and electrical systems.
- Remove forced drafts and induced draft ductwork, air heaters and fans.
- Remove hoppers, burners, upper and lower headers, manways, and waterwalls.
- Remove heavy steel structures and above ground steel – precut key members, lower and cut at ground level.
- Disassemble crane, boiler feed pumps, and turbine generator.
- Separate scrap metals, and remove to scrap yard.
- Remove and dispose of miscellaneous rubble.
- Remove turbine pedestal, foundation, and heavy concrete structures and building, stack foundations, equipment foundations, substructures, support buildings and stacks. Remove to landfill.
- Cut off piles and remove pile caps. Remove concrete encased duct banks and underground piping.
- Remove septic tank and backfill.
- Remove underground storage tanks.
- Test and remove contaminated soil/bases – all areas.
- Install environmental monitoring equipment such as wells.
- Remove or improve remaining site facilities such as buildings, fences, parking areas in accordance with local code and regulations.
- Install/modify existing site storm water runoff system.

DISMANTLING ACTIVITIES: OIL & GAS AND OTHER PRODUCTION PLANTS

(Continued)

- Remove switchyard electrical equipment, structures, and foundations. Modify services to remaining occupied structures as required.
- Remove gas supply metering site, valve stations, underground distribution system.
- Backfill, site grading, seeding, mulching.
- Remove solid and liquid wastes from waste treatment processing areas -- landfilled material, precipitated material in ponds and tanks, contaminated resins and reactants.
- Remove marine facilities such as fuel unloading docks, equipment, bridges, and dams.
- Cut and remove fuel oil tanks, piping, valves, and supports.
- Remove top soil/gravel, backfill, and remove barrier wall foundation.

TURKEY POINT DISMANTLEMENT STUDY

DEVELOPMENT OF COST FACTORS

Cost factors have been developed to compute the net salvage value of the demolition of the Turkey Point Plant. The net salvage value of the demolition is the net of: the removal and disposal cost and the salvage value of equipment and steel not disposed of. These factors provide a unit cost or value for removal, disposal and salvage of a given unit of measure of the component materials of which a power plant is constructed. The assumption is that the cost or value per unit of a given component can be multiplied by the quantity of that component the plant to calculate a total cost or value for removal, disposal, or salvage of that component.

REMOVAL COST FACTORS

The removal cost factors developed for this study have two elements: a burdened labor rate and productivity factor. The burdened labor rate multiplied by the productivity factor yields the removal cost factor. The labor rates used in this study were developed by FPL's Power Generation Services Department (PGS). The crew rate per man-hour is for a crew consisting of six journeymen laborers, one laborer foreman and one heavy equipment operator - a typical crew for demolition work. The rate includes the cost per man-hour of a Trojan 3500Z front end loader with a four yard bucket, and an American 9310, two hundred twenty-five ton crane with a two hundred foot boom. The productivity factors employed, e.g., the number of man-hours required to remove a given unit of measure of concrete, were developed by an engineering consulting firm. These factors are assumed valid for purposes of this study.

Labor Rate

Labor rates are based on Means Union wages for 1998. The rates are adjusted to reflect non-union crews and factored to the geographical location of the site. Wage rates are based on a 40 hour work week.

Labor	\$24.69	X	6	=	\$148.13
Foreman	\$31.72	X	1	=	\$31.72
Heavy Equipment Operator	\$29.57	X	1	=	\$29.57
Total Cost per hour of 8 man crew					<u>\$209.42</u>
Cost per man hour		\$209.42 / 8 =			<u>\$26.18</u>

Equipment Rate

The equipment rate is based on the following equipment:

Excavator					14,968.30
Front End Loader					5,092.50
Cutting Equipment					200.00
Total per month					<u>\$20,261</u>
20,260.80	/	176	hours per month =		115.12
Cost per man hour		\$115.12 / 8 =			\$14.39
Plus: amount for small tools					0.80
Total Cost per man hour					<u>\$15.19</u>

TURKEY POINT DISMANTLEMENT STUDY

Equipment & Labor Summary

Labor	\$26.18
Equipment	15.19
Total	<u>\$41.37</u>
Rounded	<u>\$41.00</u>
For Concrete demolition add \$4.00 per hour accitional equipment charge.	<u>\$45.00</u>

The Removal Cost Factor is the product of the productivity factor for removal of a particular component multiplied by the total burdened hourly labor rate. The removal cost factors for all materials to be removed from FPL's sites are as follows:

<u>Components</u>	<u>Hourly Rate</u>	<u>Productivity Factor</u>	<u>Removal Factor</u>
Extra Heavy Steel (1)	\$41.00	2.50 MH / Ton	\$102.50 / Ton
Heavy Steel (2)	\$41.00	3.30 MH / Ton	\$135.30 / Ton
General Steel	\$41.00	4.40 MH / Ton	\$180.40 / Ton
Light Steel	\$41.00	7.10 MH / Ton	\$291.10 / Ton
Concrete	\$45.00	0.48 MH / CY	\$21.60 / CY
Reinforced Concrete	\$45.00	1.20 MH / CY	\$54.00 / CY
Copper-Elect. Cable & Generator Leads & Copper - Generator	\$41.00	12.00 MH / Ton	\$492.00 / Ton
Copper - Transformer			\$400.00 / Ton
			\$300.00 / Ton
General Insulation	\$41.00	1.00 MH / CY	\$41.00 / CY
Inground Pipe-Metal(3)	\$41.00	6.00 MH / Ton	\$246.00 / Ton
Concrete Pipe (collapsed)	\$45.00	4.60 MH / Ton	\$207.00 / Ton
Asbestos			\$1,250.00 / CY

(1) Includes turbine generator.

(2) Includes parts of the steam generator, pipe larger than 8 inches.

(3) Includes cost to backfill the trenches.

DISPOSAL COST FACTORS

Three cost factors were developed to compute the cost of disposal of non-hazardous wastes at the South Dade Disposal Facility, using dumpsters provided by Waste Management Inc. Concrete and non-asbestos insulation are non-hazardous wastes. The tipping fee is \$59/ton and dumpster charges are \$270/haul for a 20 CY dumpster and \$348.75/haul for a 30 CY dumpster.

Cost factors were also developed to compute the cost of removal and disposal of oil tanks, including the cost of related soil remediation. Such costs are computed for each tank in FPL's system, and are located appropriately in the detailed spreadsheet.

TURKEY POINT DISMANTLEMENT STUDY

Concrete

One cubic yard of concrete in place weighs 3,950 pounds. One cubic yard becomes 1.3 cubic yards after demolition. Each load will contain 15.38 cubic yards (20 cu. yds./1.3) of in place concrete. 15.38 cubic yards weighs 61,000 pounds or 30.50 tons.

Dumpster Charge	\$270.00 / haul	X	1 haul	=	\$270.00
Tipping Fees	\$59.00 / ton	X	30.5 tons	=	1,799.50
Total Cost per round Trip					<u>\$2,069.50</u>

Cost per Cubic Yard	\$2,069.50 / 15.38 cubic yards =	\$134.56
Plus 10% contractor profit		13.46
Total Cost per Cubic Yard		<u>\$148.01</u>

Rounded Cost per Cubic Yard	<u>\$148.00</u>
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Insulation - Calcium Silicate (Non-Hazardous)

A trailer with a 30 cubic yard capacity is used for insulation because of its lighter weight. For purposes of this computation the dumpster is assumed to be 90% full (although the tipping fee is based on the assumption of 100% full truck - i.e., the weight to volume conversion uses 30 cubic yards - the full volume of the dumpster). A cubic yard of calcium silicate insulation weighs 121.5 pounds or .060750 tons. 30 cubic yards times .060750 tons/cubic yard = 1.82 tons.

Truck Cost	\$348.75 / haul	X	1 haul	=	\$348.75
Tipping Fees	\$59.00 / ton	X	1.82 tons	=	\$107.38
Total Cost per round Trip					<u>\$456.13</u>

Cost per Cubic Yard	\$456.13 / 27 cubic yards =	\$16.89
Plus 10% contractor profit		1.69
Total Cost per Cubic Yard		<u>\$18.58</u>

Rounded Cost per Cubic Yard	<u>\$19.00</u>
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Insulation - Asbestos

\$100.00

TURKEY POINT DISMANTLEMENT STUDY

SALVAGE VALUE FACTORS

The salvage value factors, presented in dollars per ton, were provided by FPL's Investment Recovery Department. The list covers all salvageable materials recovered from FPL sites.

Iron & Steel	\$50 / ton
Stainless Steel	\$300 / ton
Aluminum (Sheet Metal)	\$540 / ton
Wire & Cable:	
- Insulated Copper	\$760 / ton
- Insulated Aluminum	\$600 / ton
Copper	\$710 / ton
Nickel Alloys	
- 70/30 Cupro-Nickel	\$1,490 / ton
- 80/20 Cupro-Nickel	\$1,250 / ton
- Monel	\$2,340 / ton
Admiralty Brass	\$540 / ton
Aluminum Brass	\$140 / ton
Titanium	\$1,320 / ton

OTHER SITE COSTS

Site Management Expenses

Site management expenses refer to FPL's management costs and contractors' expenses associated with the dismantlement project. The cost factors provided by FPL's Power Generation Services Department (PGS) are: FPL expenses of \$13,901 per month, both office and site, and contractor's expenses of \$17,923 per month for site indirect costs. These expenses are to be incurred over the 18 month dismantlement period for Turkey Point Plant. FPL's management costs include administration, engineering, permit costs and various other costs. Contractors' expenses include field management supervision security, etc..

Site Management Expenses per month	\$31,824
Number of months	18
Total Site Management Expenses	<u>\$572,832</u>

Intake & Discharge Backfill

FPL's PGS Department developed this cost factor on the basis of a typical such structure for FPL's production plants. The assumption is that a volume of 1,600 cubic yards for the intake and 1,120 cubic yards for the discharge will need to be filled. The cost for the intake is \$28,021, the cost for the discharge is \$22,237 for a total cost computed as follows:

	<u>Cost/Unit</u>	<u>Quantity</u>	<u>Totals</u>
Intake	28,021	1	\$28,021
Discharge	22,237	1	\$22,237
			<u>\$50,258</u>

TURKEY POINT DISMANTLEMENT STUDY

Grading and Seeding

This cost refers to the restoration of the dismantled area to a green field area. The land is filled with sand, spread with topsoil and then seeded. The cost factor provided by PGS is \$40,229 per acre. The acreage was determined for each site by reviewing engineering drawings to determine the areas requiring this effort. Assumptions underlying this cost factor include 2,000 cubic yards per acre to be backfilled and 968 cubic yards per acre of topsoil to be spread and seeded.

Turkey Point Acreage to be graded and seeded	30.60
Cost Factor	<u>\$40,229</u>
Total Grading and Seeding Expense	<u><u>\$1,231,007</u></u>

TURKEY POINT FOSSIL DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Unit of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
TURKEY POINT COMMON										
FERC Account 311										
Improvements to Site										
Concrete Pavement	CY	1	5,165.00	5,165.00	21.60	111,564	148.00	764,420	0.00	0
Sewer System - Cast Iron	TN	1	58.88	58.88	180.40	10,622	0.00	0	50.00	2,944
Sewer System - Steel	TN	1	7.30	7.30	180.40	1,317	0.00	0	50.00	365
Sewer System - Concrete	CY	1	145.36	145.36	207.00	30,090	0.00	0	0.00	0
Manholes & Catchbasins	CY	1	148.67	148.67	54.00	8,028	148.00	22,003	0.00	0
Fire Protection System	TN	1	22.93	22.93	180.40	4,137	0.00	0	50.00	1,147
Fuel Oil Dock	CY	1	210.00	210.00	54.00	11,340	148.00	31,080	0.00	0
Hose Handling Structure	TN	1	1.30	1.30	180.40	235	0.00	0	50.00	65
Subtotal						177,332		817,503		4,521
Circulating and Service Water System										
Water Treatment Area Slab	CY	1	267.00	267.00	54.00	14,418	148.00	39,516	0.00	0
Water Treatment Equipment	TN	1	54.00	54.00	135.30	7,306	0.00	0	50.00	2,700
Piping - Cast Iron - 18"	TN	1	255.02	255.02	135.30	34,504	0.00	0	50.00	12,751
Piping - Cast Iron - 6"	TN	1	3.45	3.45	180.40	622	0.00	0	50.00	173
5 Ton Trolley Hoist	TN	1	0.90	0.90	291.10	262	0.00	0	50.00	45
Bridge Crane	TN	1	25.35	25.35	135.30	3,430	0.00	0	50.00	1,268
Station Crane	TN	1	148.50	148.50	135.30	20,092	0.00	0	50.00	7,425
Raw Water Storage Tank - 500,000gl	TN	1	352.00	352.00	135.30	47,626	0.00	0	50.00	17,600
Elevated Water Storage Tank - 100,000gl	TN	1	124.50	124.50	135.30	16,845	0.00	0	50.00	6,225
Concrete Foundations	CY	1	432.00	432.00	54.00	23,328	148.00	63,936	0.00	0
Structural Steel	TN	1	64.00	64.00	135.30	8,659	0.00	0	50.00	3,200
Elevator	TN	1	37.60	37.60	135.30	5,087	0.00	0	50.00	1,880
Subtotal						182,180		103,452		53,266
Fuel & Ash Structures										
Fuel Oil Storage Tanks - 268,000bbl	EA	2	925.00	1,850.00	n/a	75,000	0.00	0	50.00	92,500
Cleaning Fuel Oil Storage Tanks	EA	2	268,000.00	536,000.00	n/a	0	n/a	339,926	0.00	0
Soil Remediation - Fuel Oil Storage Tanks	EA	2	203.00	406.00	n/a	0	n/a	169,484	0.00	0
Fuel Oil Transport Lines	TN	1	306.46	306.46	135.30	41,464	0.00	0	50.00	15,323
Subtotal						116,464		509,410		107,823
Other Buildings										
Concrete	CY	1	1,137.00	1,137.00	54.00	61,398	148.00	168,276	0.00	0
Miscellaneous Steel	TN	1	19.80	19.80	291.10	5,764	0.00	0	50.00	990
Subtotal						67,162		168,276		990
Total Account 311						543,137		1,598,641		166,600
FERC Account 312										
Boiler Plant Equipment										
Fuel Oil & Gas Equipment										
Light Oil Tank - 600bbl	TN	2	12.28	24.56	n/a	10,000	0.00	0	50.00	1,228
Foundation			n/a	n/a	n/a	0	n/a	11,026	0.00	0
Light Oil Tank - Cleaning			n/a	n/a	n/a	0	n/a	8,960	0.00	0
Soil Remediation			n/a	n/a	n/a	0	n/a	4,524	0.00	0
Fuel Oil Transfer Pumps	TN	6	1.23	7.38	180.40	0	0.00	0	50.00	0
Subtotal						10,000		24,510		1,228

TURKEY POINT FOSSIL DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Unit of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Boiler Plant Auxiliaries										
Caustic Wash System	TN	1	7.34	7.34	180.40	1,324	0.00	0	50.00	367
Lime Slurry System	TN	1	13.60	13.60	180.40	2,453	0.00	0	50.00	680
Subtotal						3,778		0		1,047
Total Account 312						13,778		24,510		2,275
FERC Account 315										
Accessory Electrical Equipment										
Power & Conversion Equipment										
Station Service Transformer	TN	1	4.00	4.00	180.40	722	0.00	0	50.00	200
Emergency Diesel Generator	TN	1	9.45	9.45	180.40	1,705	0.00	0	50.00	473
Startup Transformer - 32,000kva	TN	1	36.75	36.75	135.30	4,972	0.00	0	50.00	1,838
Lighting Transformer	TN	15	0.60	9.00	291.10	2,620	0.00	0	50.00	450
Transformer Copper	TN	1	16.54	16.54	300.00	4,962	0.00	0	710.00	11,743
Storage Batteries & Equipment	TN	1	7.50	7.50	180.40	1,353	0.00	0	50.00	375
Subtotal						16,334		0		15,078
Switching, Control & Protective Equipment										
Instrument Transformers	TN	3	0.60	1.80	291.10	524	0.00	0	50.00	90
Subtotal						524		0		90
Total Account 315						16,858		0		15,168
TOTAL TURKEY POINT COMMON						573,772		1,623,151		184,043
TURKEY POINT UNITS 1 & 2										
FERC Account 311										
Circulating and Service Water System										
Intake Structure - Concrete	CY	1	966.00	1,932.00	54.00	104,328	148.00	285,936	0.00	0
Traveling Water Screens	TN	2	14.11	56.44	135.30	7,636	0.00	0	50.00	2,822
Intake Conduit	TN	1	656.25	1,312.50	180.40	236,775	0.00	0	50.00	65,625
Subtotal						348,739		285,936		68,447
Station Structures										
Concrete Footings and Piers	CY	1	2,114.00	4,228.00	54.00	228,312	148.00	625,744	0.00	0
Concrete Pedestal Mat	CY	1	3,290.00	6,580.00	54.00	355,320	148.00	973,840	0.00	0
Structural Steel	TN	1	365.00	730.00	180.40	131,692	0.00	0	50.00	36,500
Miscellaneous Steel	TN	1	75.20	150.40	180.40	27,132	0.00	0	50.00	7,520
Floors - Concrete	CY	1	1,462.00	2,924.00	54.00	157,896	148.00	432,752	0.00	0
Floor and Roof Slabs	CY	1	155.00	310.00	54.00	16,740	148.00	45,880	0.00	0
Enclosure - Concrete	CY	1	160.00	320.00	54.00	17,280	148.00	47,360	0.00	0
Misc. Cranes and Hoists	TN	1	1.65	3.30	291.10	961	0.00	0	50.00	165
Subtotal						935,333		2,125,576		44,185
Total Account 311						1,284,072		2,411,512		112,632
FERC Account 312										
Boiler Plant Equipment										
Fuel Oil & Gas Equipment										
Metering Tank - Foundation	CY	1	539.50	1,079.00	n/a	0	n/a	186,370	0.00	0
Fuel Oil Metering Tank - 12000 bbl	TN	1	50.60	101.20	n/a	25,000	0.00	0	50.00	5,060

TURKEY POINT FOSSIL DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Unit of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
F.O. Metering Tank - Cleaning	EA	1	n/a	n/a	n/a	0	n/a	44,728	0.00	0
Soil Remediation	EA	1	n/a	n/a	n/a	0	n/a	3,186		
Burner Pumps	TN	3	1.50	9.00	180.40	1,624	0.00	0	50.00	450
Burner Fuel Oil Booster Pumps	TN	2	1.23	4.92	180.40	888	0.00	0	50.00	246
Fuel Oil Piping	TN	1	97.07	194.14	180.40	35,023	0.00	0	50.00	9,707
Concrete	CY	1	43.00	86.00	54.00	4,644	148.00	12,728	0.00	0
Forced Draft Foundation	CY	1	229.50	459.00	54.00	24,786	148.00	67,932	0.00	0
Forced Draft Fans	TN	2	38.50	154.00	135.30	20,836	0.00	0	50.00	7,700
Forced Draft Fan Air Ducts	TN	2	127.00	508.00	180.40	91,643	0.00	0	50.00	25,400
FD Fan Air Duct Insulation - Asbestos	CY	1	225.00	450.00	1,250.00	562,500	100.00	45,000	0.00	0
FD Fan Air Duct Insulation - Calcium Silicate	CY	1	270.00	540.00	41.00	22,140	19.00	10,260	0.00	0
Subtotal						789,083		370,204		48,563
Boiler Equipment										
Boiler Frame	TN	1	1,140.00	2,280.00	135.30	308,484	0.00	0	50.00	114,000
Platforms, Grating & Handrails	TN	1	414.00	828.00	180.40	149,371	0.00	0	50.00	41,400
Boiler - including:	TN	1	3,733.00	7,466.00	135.30	1,010,150	0.00	0	50.00	373,300
Drum, Headers, Hangers & Supports										
Waterwall, Downcomers & Tube-Guides										
Piping, Valves & Silencers										
Superheater, Reheater, Economizer										
Sootblowers										
Air Preheater	TN	2	483.00	1,932.00	135.30	261,400	0.00	0	50.00	96,600
Insulation - Asbestos	CY	1	970.00	970.00	1,250.00	1,212,500	100.00	97,000	0.00	0
Insulation - Calcium Silicate	CY	1	1,150.00	1,150.00	41.00	47,150	19.00	21,850	0.00	0
Instrument Air Compressors	TN	2	1.25	5.00	135.30	677	0.00	0	50.00	250
Instrument Air Piping	TN	1	16.34	32.68	291.10	9,513	0.00	0	50.00	1,634
Subtotal						2,999,244		118,850		627,184
Boiler Plant Auxiliaries										
L.P. Feedwater Heater #1	TN	1	22.75	45.50	135.30	6,156	0.00	0	50.00	2,275
L.P. Feedwater Heater #2	TN	1	16.20	32.40	135.30	4,384	0.00	0	50.00	1,620
H.P. Feedwater Heater #3	TN	1	11.85	23.70	135.30	3,207	0.00	0	50.00	1,185
H.P. Feedwater Heater #4	TN	1	15.10	30.20	135.30	4,086	0.00	0	50.00	1,510
H.P. Feedwater Heater #5	TN	1	18.30	36.60	135.30	4,952	0.00	0	50.00	1,830
H.P. Feedwater Heater #6	TN	1	56.85	113.70	135.30	15,384	0.00	0	50.00	5,685
H.P. Feedwater Heater #7	TN	1	77.60	155.20	135.30	20,999	0.00	0	50.00	7,760
Boiler Feed Pumps (including motors)	TN	2	27.00	108.00	135.30	14,612	0.00	0	50.00	5,400
Condensate Storage Tank - 150,000 gl	TN	1	41.25	82.50	135.30	11,162	0.00	0	50.00	4,125
Condensate Recovery Cooler	TN	1	0.83	1.66	291.10	483	0.00	0	50.00	83
Condensate Recovery Vent Condenser	TN	1	1.40	2.80	180.40	505	0.00	0	50.00	140
Condensate Recovery Tank - 3,900gl	TN	1	3.00	6.00	180.40	1,082	0.00	0	50.00	300
Condensate Recovery Flash Tank - 515gl	TN	1	0.50	1.00	291.10	291	0.00	0	50.00	50
Heater Drain Pump	TN	1	0.65	1.30	291.10	378	0.00	0	50.00	65
Blow Down Tank - 1,700gl	TN	1	1.00	2.00	180.40	361	0.00	0	50.00	100
Cooling Water Pumps	TN	4	1.55	12.40	180.40	2,237	0.00	0	50.00	620
Cooling Water Heat Exchanger	TN	2	18.05	72.20	135.30	9,769	0.00	0	50.00	3,610
Cooling Water Surge Tank - 564gl	TN	1	0.50	1.00	291.10	291	0.00	0	50.00	50
Chemical Feed System	TN	1	1.50	3.00	180.40	541	0.00	0	50.00	150
Subtotal						100,880		0		36,558
Boiler Plant Piping										

TURKEY POINT FOSSIL DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Unit of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Main Steam Piping	TN	1	297.52	595.04	180.40	107,345	0.00	0	50.00	29,752
Hot Reheat Piping	TN	1	73.60	147.20	180.40	26,555	0.00	0	50.00	7,360
Cold Reheat Piping	TN	1	88.08	176.16	180.40	31,779	0.00	0	50.00	8,808
Condensate Piping	TN	1	399.72	799.44	180.40	144,219	0.00	0	50.00	39,972
Extraction Steam Piping	TN	1	135.45	270.90	180.40	48,870	0.00	0	50.00	13,545
Boiler Feed Piping	TN	1	96.98	193.96	180.40	34,990	0.00	0	50.00	9,698
Air Evacuation Piping	TN	1	9.77	19.54	180.40	3,525	0.00	0	50.00	977
Instrument Piping	TN	1	26.50	53.00	180.40	9,561	0.00	0	50.00	2,650
Saturated Auxiliary Steam Piping	TN	1	28.65	57.30	180.40	10,337	0.00	0	50.00	2,865
Closed Cooling Water Piping	TN	1	60.71	121.42	180.40	21,904	0.00	0	50.00	6,071
Miscellaneous Piping	TN	1	9.79	19.58	180.40	3,532	0.00	0	50.00	979
Pipe Insulation - Asbestos	CY	1	747.00	1,494.00	1,250.00	1,867,500	100.00	149,400	0.00	0
Pipe Insulation - Calcium Silicate	CY	1	900.00	1,800.00	41.00	73,800	19.00	34,200	0.00	0
Subtotal						2,383,919		183,600		122,677
Induced Draft Equipment										
Insulation	CY	1	325.00	650.00	1,250.00	1,062,500	100.00	85,000	0.00	0
Insulation	CY	1	425.00	850.00	41.00	78,720	19.00	36,480	0.00	0
Stacks	CY	1	960.00	1,920.00	54.00	103,680	148.00	284,160	0.00	0
Dust Collectors	TN	2	87.00	348.00	135.30	47,084	0.00	0	50.00	17,400
Gas Ducts	TN	1	386.00	772.00	135.30	104,452	0.00	0	50.00	38,600
Breeching	TN	1	120.00	240.00	135.30	32,472	0.00	0	50.00	12,000
Subtotal						1,428,908		405,640		68,000
Miscellaneous Steel & Equipment	TN	1	514.00	514.00	291.10	149,625	0.00	0	50.00	25,700
Total Account 312						7,851,660		1,078,294		928,682
FERC Account 314										
Turbo-Generator Units										
Pedestal Concrete	CY	1	1,725.50	3,451.00	54.00	186,354	148.00	510,748	0.00	0
Inserts & Anchor Bolts	TN	1	10.85	21.70	180.40	3,915	0.00	0	50.00	1,085
Turbo-Generator Unit	TN	1	648.00	1,296.00	102.50	132,840	0.00	0	50.00	64,800
Turbine Copper	TN	1	50.00	100.00	400.00	40,000	0.00	0	710.00	71,000
Turbine Piping	TN	1	260.00	520.00	492.00	255,840	0.00	0	50.00	26,000
Turbine Insulation	CY	1	700.00	1,400.00	1,250.00	1,750,000	100.00	140,000	0.00	0
Subtotal						2,368,949		650,748		162,885
Condensers and Auxiliaries										
Condenser Shell	TN	1	867.50	1,735.00	135.30	234,746	0.00	0	50.00	86,750
Condenser - Aluminum-Brass Tubes	TN	1	214.50	429.00	180.40	77,392	0.00	0	140.00	60,060
Circulating Water Pumps	TN	2	70.54	282.16	135.30	38,176	0.00	0	50.00	14,108
Butterfly Valves	TN	2	8.00	32.00	180.40	5,773	0.00	0	50.00	1,600
Condensate Pumps	TN	2	15.08	60.32	135.30	8,161	0.00	0	50.00	3,016
Lube Oil System	TN	1	23.50	47.00	180.40	8,479	0.00	0	50.00	2,350
Subtotal						372,726		0		167,884
Miscellaneous Steel & Equipment	TN	1	117.36	117.36	291.10	34,163	0.00	0	50.00	5,868
Total Account 314						2,775,838		650,748		336,637
FERC Account 315										

TURKEY POINT FOSSIL DISMANTLEMENT STUDY

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Unit of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Accessory Electrical Equipment										
Foundations & Structures										
Manholes & Handholes	CY	1	85.00	170.00	54.00	9,180	148.00	25,160	0.00	0
Manhole & Handhole Frames and Covers	TN	1	2.19	4.38	291.10	1,275	0.00	0	50.00	219
Equipment Foundations - Concrete	CY	1	185.00	370.00	54.00	19,980	148.00	54,760	0.00	0
Subtotal						30,435		79,920		219
Conduit, Insulators & Conductors										
Concrete	CY	1	705.00	1,410.00	54.00	76,140	148.00	208,680	0.00	0
Conduit	TN	1	18.74	37.48	291.10	10,910	0.00	0	50.00	1,874
Generator Leads & Copper Tube	TN	1	22.24	44.48	492.00	21,884	0.00	0	710.00	31,581
Power & Control Wiring	TN	1	202.10	404.20	492.00	198,866	0.00	0	760.00	307,192
Cable Trays	TN	1	5.12	5.12	291.10	1,490	0.00	0	50.00	256
Subtotal						309,291		208,680		340,903
Switching, Control & Protective Equipment										
Aux Power Transformer	TN	1	59.40	118.80	135.30	16,074	0.00	0	50.00	5,940
Instrument Transformers	TN	3	0.60	3.60	291.10	1,048	0.00	0	50.00	180
Transformer Copper	TN	1	24.00	24.00	300.00	7,200	0.00	0	710.00	17,040
Switchgear - 4160v Metalclad	TN	1	40.00	80.00	135.30	10,824	0.00	0	50.00	4,000
Switchgear - 480v Metalclad	TN	2	18.00	72.00	135.30	9,742	0.00	0	50.00	3,600
Station Grounding System	TN	1	6.08	6.08	291.10	1,770	0.00	0	50.00	304
Subtotal						46,657		0		31,064
Total Account 315						386,384		288,600		372,186
FERC Account 316										
Miscellaneous Power Plant Equipment										
Air Compressor	TN	2	4.50	18.00	180.40	3,247	0.00	0	50.00	900
Service Air Piping	TN	1	6.55	13.10	291.10	3,813	0.00	0	50.00	655
Total Account 316						7,061		0		1,555
FERC Account 353										
Substation Equipment										
Main Power Transformers 460,000 kva	TN	1	130.00	260.00	135.30	35,178	0.00	0	50.00	13,000
Transformer Copper	TN	1	52.00	52.00	300.00	15,600	0.00	0	710.00	36,920
Oil Circuit Breaker	TN	4	21.13	169.04	135.30	22,871	0.00	0	50.00	8,452
Air Break and Disconnect Switches	TN	2	2.35	9.40	180.40	1,696	0.00	0	50.00	470
Main Power Transformers - Foundation	CY	1	220.00	440.00	54.00	23,760	148.00	65,120	0.00	0
Oil Circuit Breakers - Foundation	CY	1	89.00	178.00	54.00	9,612	148.00	26,344	0.00	0
Total Account 353						108,717		91,464		58,842
TOTAL TURKEY POINT UNITS 1 & 2						12,413,732		4,520,618		1,810,534
TOTAL TURKEY POINT COMMON, UNITS 1 & 2						12,987,504		6,143,769		1,994,577

ST. JOHNS RIVER POWER PARK

Removal, Disposal & Salvage Cost Worksheet	Unit of Measure	Number of Components	Units of Measure per Component	Total Units of Measure	Removal Cost per Unit of Measure	Total Removal Cost	Disposal Cost per Unit of Measure	Total Disposal Cost	Salvage Value per Unit of Measure	Total Salvage Value
Manual Disconnect Switch - 230 kv, 2000 amp	TN	20	1.00	20.00	171.60	3,432	0.00	0	50.00	1,000
Aluminum Tubing (4" sch. 40)	TN	1	12.42	12.42	276.90	3,439	0.00	0	540.00	6,707
Aluminum Wiring	TN	1	8.46	8.46	468.00	3,960	0.00	0	540.00	4,569
Total Account 353						470,595		129,246		685,927
TOTAL ST. JOHNS UNITS 1 & 2						23,868,556		12,809,792		7,331,026
COAL & LIMESTONE FACILITIES										
FERC Account 311										
Improvements to Site										
Coal Terminal - General										
Roads (asphalt) - 18,980 sf	CY	1	117.00	117.00	20.64	2,415	78.00	9,126	0.00	0
Walks, Parking (asphalt) - 5,376 sf	CY	1	33.00	33.00	20.64	681	78.00	2,574	0.00	0
Vehicle Washdown Area - Reinforced Concrete	CY	1	36.00	36.00	51.60	1,858	78.00	2,808	0.00	0
Sewer Piping - PVC (6"-1,540 lf)	CY	1	4.24	4.24	20.64	87	78.00	330	0.00	0
Firemain Piping - PVC (10"-1,100 lf)	CY	1	7.92	7.92	20.64	163	78.00	618	0.00	0
Firemain Piping - Steel (720 lf + 4 hydrants)	TN	1	8.89	8.89	234.00	2,080	0.00	0	50.00	445
Potable Water Ppng, Vlvs - PVC (6"-1,100 lf)	CY	1	3.03	3.03	20.64	62	78.00	236	0.00	0
Service Water Piping, Valves - Steel (240 lf)	TN	1	1.15	1.15	234.00	270	0.00	0	50.00	58
Fencing (4,600 lf) - Steel	TN	1	11.50	11.50	276.90	3,184	0.00	0	50.00	575
Misc. Pump & Tank Foundations - Reinf Conc	CY	1	20.00	20.00	51.60	1,032	78.00	1,560	0.00	0
Subtotal						11,833		17,252		1,077
Coal Terminal - Service Building										
Foundation - Reinforced Concrete	CY	1	219.00	219.00	51.60	11,300	78.00	17,082	0.00	0
Structural Steel	TN	1	27.00	27.00	128.70	3,475	0.00	0	50.00	1,350
Partitions - Concrete Block (1,500 sf)	CY	1	24.81	24.81	20.64	512	78.00	1,935	0.00	0
Steel Siding (9,600 sf)	TN	1	14.40	14.40	171.60	2,471	0.00	0	50.00	720
Overhead Crane	TN	1	3.00	3.00	171.60	515	0.00	0	50.00	150
HVAC	TN	1	2.50	2.50	171.60	429	0.00	0	50.00	125
Subtotal						18,702		19,017		2,345
Coal Terminal - Dock & Trestle										
Structure - Reinforced Concrete	CY	1	5421.00	5421.00	51.60	279,724	78.00	422,838	0.00	0
Rails - Steel (1,252 lf @ 175#/yd)	TN	1	36.52	36.52	276.90	10,111	0.00	0	50.00	1,826
Coal Ship Unloader Power Track/ Support Steel	TN	1	15.63	15.63	171.60	2,681	0.00	0	50.00	781
Handrailing - Steel (945 lf)	TN	1	4.73	4.73	276.90	1,308	0.00	0	50.00	236
Concrete Planks (132)	CY	1	44.00	44.00	20.64	908	78.00	3,432	0.00	0
Bollards - Steel	TN	13	1.50	19.50	171.60	3,346	0.00	0	50.00	975
Pier Fender Assembly (buckstays/chain/fender)	TN	11	5.00	55.00	171.60	9,438	0.00	0	50.00	2,750
Beams - 12"x 12" (2,836 lf)	CY	1	51.05	51.05	20.64	1,054	78.00	3,982	0.00	0
Subtotal						308,571		430,252		6,568
Power Park - Coal/ Limestone Handling Structures										
CH/LH Switchgear Bldg Foundation - Reinf Conc	CY	1	316.00	316.00	51.60	16,306	78.00	24,648	0.00	0
Coal/Limestone Hndlg Swgr Bldg - Struc Steel	TN	1	25.80	25.80	128.70	3,320	0.00	0	50.00	1,290
CH/LH Swgr Bldg - Steel Siding (4,100 sf)	TN	1	5.13	5.13	171.60	879	0.00	0	50.00	256
Coal Hndlg Admin Bldg Foundation - Reinf Conc	CY	1	50.81	50.81	51.60	2,622	78.00	3,963	0.00	0
Coal Handling Admin Bldg Walls - Reinf Conc	CY	1	42.88	42.88	51.60	2,213	78.00	3,345	0.00	0
Coal Handling Admin Bldg Roof - Reinf Conc	CY	1	21.33	21.33	51.60	1,101	78.00	1,664	0.00	0