ORIGINAL BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In Re: Petition for Determination) DOCKET NO. 991462-EU of Need for an Electrical Power Plant in Okeechobee County by Okeechobee Generating Company, L.L.C.

FILED: Oct. 25, 1999

DIRECT TESTIMONY

OF

FREDERICK M. SELLARS

ON BEHALF OF

OKEECHOBEE GENERATING COMPANY, L.L.C.

DOCUMENT NUMBER - DATE 13115 OCT 25 5 FPSC-RECORDS/REPORTING

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

IN RE: PETITION FOR DETERMINATION OF NEED FOR THE OKEECHOBEE GENERATING PROJECT, FPSC DOCKET NO. 991462-EU

DIRECT TESTIMONY OF FREDERICK M. SELLARS

- 1 Q: Please state your name and business address.
- 2 A: Frederick M. Sellars, 196 Baker Avenue, Concord,
 3 Massachusetts, 01742.
- 4
- 5 Q: By whom are you employed and in what position?
- 6 A: I am Vice President of Environmental Sciences and Planning at
 7 Earth Tech, Incorporated.
- 8
- 9 Q: Please describe your general duties for the Okeechobee 10 Generating Project.
- 11 A: Earth Tech is the lead environmental consultant for the
 12 Okeechobee Generating Project ("Project"), and I am Earth
 13 Tech's Manager for this matter.
- 14

15 QUALIFICATIONS AND EXPERIENCE

16 Q: Please summarize your educational background and experience.

17 A: I have over 20 years of environmental consulting experience, 18 specializing in the siting and licensing of energy 19 facilities. I hold a B.S. in Natural Resources from Cornell 20 University. A copy of my resume' is attached hereto as 21 Exhibit (FMS-1).

1	Q:	What is your experience in power plant siting and licensing?
2	A:	I have managed and directed the multi-disciplinary permitting
3		of 20 proposed power plant projects, totaling over 7,500
4		megawatts.
5		
6	Q:	How many of these were actually permitted and either
7		constructed or are under construction?
8	A:	Nine of these projects, totaling over 2,500 MW, are either
9		operating or under construction. An additional three of
10		these projects, totaling over 2,600 MW are expected to begin
11		construction before the end of this year.
12		
13	Q:	With respect to the 20 power plant projects that you have
14		managed and directed, has any project not been completed due
15		to environmental permitting problems?
16	A:	NO.
17		
18	Q:	Have you previously testified before regulatory authorities
19		or courts?
20	A:	Yes. I have testified several times before the Massachusetts
21		Energy Facilities Siting Board, the Connecticut Siting
22		Council, the Rhode Island Energy Facility Siting Board, the

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1		New York State Department of Environmental Conservation, and
2		the Massachusetts Department of Environmental Protection.
3		
4	Q:	What are your specific responsibilities with respect to the
5		Okeechobee Generating Project that is the subject of this
6		proceeding?
7	A:	I have responsibility for directing and overseeing the
8		environmental impact analyses supporting the Okeechobee
9		Generating Project.
10		
11	Q:	Are you sponsoring any exhibits to your testimony?
12	A.	Yes.
13		Exhibit No. FMS-1. Resume of Frederick M. Sellars.
14		Exhibit No. FMS-2. I am also sponsoring the Project
15		Licensing Schedule.
16		I am also sponsoring Figures 3 and 14, and the Total
17		Site Area section of Table 1 contained in the Exhibits filed
18		with the Petition for Determination of Need for the
19		Okeechobee Generating Project and the associated narrative
20		text at pages 2-4, 9, 15, 17, 21, 36, 41, and 71-72 of those
21		Exhibits.

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 1
 ENVIRONMENTAL PROFILE

 2
 Q: Please summarize the environmental profile of the Okeechobee

 3
 Generating Project.

The Okeechobee Generating Project will be a state-of-the-art 4 Α: combined cycle power plant. It will employ advanced emission 5 control equipment, including the use of Selective Catalytic 6 Reduction (SCR) to control emissions of nitrogen oxides 7 (NO_x) . As such, it will be among the cleanest and most fuel-8 efficient fossil fueled power production facilities in the 9 country. Through displacement of generation from older, less 10 efficient, and higher-polluting units, operation of the 11 Okeechobee Generating Project will result net in а 12 environmental benefit, in terms of regional air emissions. 13 The Project is proposed to be located on an approximately 771 14 acre site in a rural area about five miles southeast of the 15 City of Okeechobee. The large size of the site will provide 16 substantial buffering potential for the Project. The Project 17 will not be close to any residential areas and will be 18 located on the site in a manner that to minimizes impacts on 19 the surrounding area. The site is zoned for the intended use 20 and is located immediately proximate to existing electric 21 transmission lines, a proposed major interstate natural gas 22 pipeline as well as reliable sources of process water. The 23

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1		Project footprint has been carefully sited to minimize
2		impacts and encroachment on wetland areas.
3		
4		OKEECHOBEE GENERATING PROJECT - SITE EVALUATION
5	Q:	Have you reviewed the proposed site for the Okeechobee
6		Generating Project?
7	A:	Yes, Earth Tech has reviewed and analyzed the proposed site.
8		
9	Q:	Please describe the steps that your review encompassed.
10	A:	The review included site reconnaissance, land use and zoning
11		compatibility assessment, ecological resources investigation,
12		wetlands delineation, preliminary air quality impact
13		evaluation, infrastructure assessment, and water supply
14		investigation.
15		
16	Q:	What did you do to gather information for your analysis?
17	A:	Our analyses were based on review of available secondary
18		mapping and data sources, including United States Geological
1 9		Survey (USGS) topographic maps, United States Fish & Wildlife
20		Service wetlands mapping, geographic information system (GIS)
21		data, aerial photographs, zoning and master planning
22		documentation, Code of Federal Regulations information on air
23		quality standards attainment status, USGS and South Florida

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1 Water Management District hydrological information, United 2 States Department of Agriculture Natural Resources 3 Conservation Service soils mapping, contact with the Florida 4 Fish and Wildlife Conservation Commission, and site 5 reconnaissance surveys.

6

7 Q: Please summarize the results of your analysis.

8 The proposed site has more than sufficient acreage to support Α: 9 the plant layout and provide an adequate buffer. It is 10 traversed by a 230 kV transmission line, allowing on-site 11 interconnection with the transmission grid. The site is 12 easily accessible from the existing highway system and nearby 13 rail service offers an opportunity to transport large equipment items by rail. The proposed new Gulfstream Natural 14 15 Gas System pipeline will traverse the site, facilitating 16 interconnection with the natural gas system. The site is 17 largely vacant and is not located adjacent to any residential 18 areas or other sensitive land uses. The site has been zoned to accommodate power plant development, and the proposed 19 20 Project is consistent with the development objectives set 21 forth in the Okeechobee County Comprehensive Plan. Adequate upland area exists on the site to enable Okeechobee 22 23 Generating Company to design, locate and construct the

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1 facility in a manner that will minimize impacts to wetland 2 areas.

The site is proximate to Taylor Creek/Nubbin Slough, and preliminary analyses indicate that sufficient water supply exists to reliably support the Project's needs. The primary source of makeup water will be surface water from South Florida Water Management District Canal C-59 at the Taylor Creek/Nubbin Slough. Onsite groundwater wells will provide backup water supply when necessary.

10 The Project will incorporate state-of-the-art emissions 11 control technology and, as such, will be among the cleanest fossil fueled power plants in the country. In addition, due 12 to its high efficiency (6,775 BTU per kWh (HHV)), it is 13 14 expected to economically displace older, less efficient and higher emitting units. This should result in substantial 15 16 reductions in regional emissions from power generation which, in turn, would result in a significant net air quality 17 benefit. The lack of significant terrain features or nearby 18 potentially interacting emission sources will help to 19 20 minimize local air quality impacts.

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1 Q: What are the major findings of your analysis?

2 A: The major finding of the above analysis is that the proposed 3 site is an ideal location for development of a power plant. 4 It is adjacent to existing electric transmission 5 infrastructure and a proposed new natural gas transmission 6 line and is easily accessed from the existing state highway 7 system. The site has been zoned to accommodate power plant 8 development. An adequate source of process surface water is 9 located nearby, which, combined with on-site groundwater, 10 will provide a reliable water supply. The site's size and 11 surrounding land use provide a substantial buffer from any 12 residential or other sensitive land uses. The site is 13 located in an area designated as attainment with respect to the National Ambient Air Quality Standards with the potential 14 for excellent dispersion from an air emissions standpoint. 15 16

17 Q: Do you still agree with the findings and conclusions of your18 analysis?

19 A: Yes.

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1	Q:	What is the licensing schedule for the Okeechobee Generating
2		Project?
3	A:	Okeechobee Generating Company plans to file the site
4		certification application in time to allow for commencement
5		of commercial operations by April of 2003. The Project
6		licensing schedule is attached as Exhibit (FMS-2).
7		
8	Q:	Do you have a conclusion with respect to the ability of the
9		Okeechobee Generating Project to obtain all necessary
10		licenses within the time frames described in the licensing
11		schedule?
12	A:	Yes.
13		
14	Q:	What is your conclusion?
15	A:	Based on our review and analysis, it is my professional
16		opinion that the Okeechobee Generating Project should be
17		successfully permitted in a timely fashion and in accordance
18		with all applicable environmental laws and regulations.
19		
20	Q:	Are you aware of any reason that the Okeechobee Generating
21		Project could not be successfully permitted and licensed?
22	A:	No.

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- l Q: Does this conclude your direct testimony?
- 2 A: Yes.

FREDERICK M. SELLARS

VICE PRESIDENT ENVIRONMENTAL SCIENCES AND PLANNING

EDUCATION

B.S., Natural Resources, Cornell University, 1977

PROFESSIONAL SUMMARY

Mr. Sellars is Vice President of Earth Tech's Environmental Sciences and Planning Group. He has over 20 years of environmental consulting experience specializing in the siting and comprehensive environmental licensing of energy and industrial facilities nationwide. Mr. Sellars' experience includes extensive involvement with environmental regulations and permitting strategies, modeling calculations, technical studies, preparation of environmental impact statements, and expert witness testimony.

PROFESSIONAL EXPERIENCE

Electric Utility/Cogeneration Facility Licensing

- New England Power and Narragansett Electric Company, Providence, Rhode Island Manchester Street Station. Project manager for environmental licensing of the 450 MW Manchester Street Station Repowering Project and associated underground transmission facilities in Providence, Rhode Island. Key activities included preparation of an environmental assessment to support Energy Facilities Siting Board and Coastal Resources Management Council license applications, air quality permitting, wetlands permitting and an 18-month estuarine quality and ecological sampling effort to support RIPDES permitting including Section 316(a) and (b) demonstrations.
- New York State Electric and Gas, Lansing, New York Milliken Station CCT Demonstration Project. Project manager for environmental licensing support for the Milliken Station Clean Coal Technology Program (CCT-IV) Demonstration Project. Project entailed installation of innovative flue gas desulfurization equipment and associated power plant modifications at NYSEG's 317 MW coal-fired power plant. Responsible for DOE-NEPA submittals and comprehensive environmental licensing.
- Sithe New England, Mystic Station Redevelopment Project Everett, Massachusetts. Project Manager for the comprehensive environmental licensing of a proposed new 1,500 MW combined-cycle power plant at the existing Mystic Station.
- U.S. Generating Company, Millennium Power, Charlton, Massachusetts Generating Facility. Project manager for the comprehensive environmental licensing of a 360 MW natural gas-fired generating facility. Responsible for preparation of an environmental impact report, Energy Facilities Siting Board Petition and air, wastewater and wetlands permit application.
- Sithe Energies, Inc., Heritage Station, Oswego, New York. Officer-in-charge for Article X and comprehensive environmental licensing of a proposed 800 MW natural gas-fired combined-cycle power plant adjacent to the existing Independence Station, near Oswego, New York.

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- Glenville Energy Park, LLC, Glenville Energy Park, Glenville, New York. Project Manager for Article X and comprehensive environmental licensing of a proposed 550 MW natural gas-fired combined-cycle power plant at the Glenville-Scotia Industrial Park in Glenville, New York.
- Power Development Company Berkshire Power, Agawam, Massachusetts. Project manager for the siting and comprehensive environmental licensing of a 272 MW natural gas-fired generating facility. Key activities include implementation of an innovative site selection process, preparation of an environmental impact report (EIR), Energy Facilities Siting Board Petition and air, wastewater, and wetlands permit applications.
- Sithe New England, Medway Station Expansion Project Medway, Massachusetts. Officerin-Charge for the comprehensive environmental licensing of a proposed 540 MW simple cycle peaking project at the existing West Medway Station.
- Enron Power, Milford, Massachusetts Generating Facility. Project manager for the comprehensive environmental licensing of a 146 MW natural gas-fired generating facility. Key activities included preparation of an environmental impact report (EIR) and air permit application. Major issues include impact of use of wastewater treatment plant effluent as cooling tower make-up, impacts to riverine ecology, noise impacts, wetlands crossings, and aesthetics.
- American National Power, Bellingham, Massachusetts Generating Facility. Officer-incharge for the siting and comprehensive environmental licensing of a 580 MW natural gas-fired generating facility in Bellingham, Massachusetts.
- American National Power, Blackstone, Massachusetts Generating Facility. Officer-in-charge for the siting and comprehensive licensing of a 580 MW natural gas-fired generating facility in Blackstone, Massachusetts.
- PDC El Paso Milford, Connecticut. Officer-in-Charge for siting and comprehensive environmental licensing of a 540 MW natural gas-fired generating facility in Milford, Connecticut.
- PDC El Paso Meriden, Connecticut. Officer-in-Charge for siting and comprehensive environmental licensing of a 540 MW natural gas-fired generating facility in Meriden, Connecticut.
- U.S. Generating Company, Wallkill, New York Generating Facility. Principal-in-charge for the comprehensive environmental licensing of a 150 MW combined-cycle combustion turbine generating facility. Key activities include preparation of an environmental impact statement and water quality and air permit applications.
- Independent Power Producers, Confidential Environmental Due Diligence. Directed numerous environmental due diligence analyses for potential power plant project acquisitions in New York, New Jersey, Pennsylvania, West Virginia, Maryland, Maine, Massachusetts, Rhode Island, and Florida.

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- American National Power, Massachusetts. Due diligence for a power plant acquisition in Massachusetts.
- PDC El Paso Summit Power, Westfield, Massachusetts Generating Facility. Officer-incharge for the comprehensive environmental licensing of a 272 MW natural gas-fired generating facility in Westfield, Massachusetts.
- L'Energia Inc., Lowell, Massachusetts Cogeneration Facility. Principal-in-charge for environmental permitting of a natural gas-fired cogeneration facility. Major issues included air quality, noise, and water consumption.
- Energy Resources and Logistics, Thorofare, New Jersey Cogeneration Facility. Directed critical flaw assessment and licensing strategy development for a proposed coal-fired cogeneration facility.
- Holyoke Gas and Electric, Holyoke, Massachusetts Critical Flaw Analysis. Project manager for environmental permitting critical flaw analysis for the addition of new capacity of HG&E's Cabot Street Station.
- Riverside Steam and Electric Company, Holyoke, Massachusetts Cogeneration Facility. Managed environmental impact report (EIR) and Prevention of Significant Deterioration (PSD) permit application for a coal-fired, fluidized bed cogeneration facility. Major issues included air quality, ash disposal, discharge of cooling water to the Connecticut River, noise and protection of endangered/special concern species, including the shortnosed sturgeon. Represented client at meetings with regulatory agencies and public hearings.

Resource Recovery Facility Licensing

- Wheelabrator Environmental Systems, Inc., Peekskill, New York Waste-to-Energy Facility. Officer-in-charge for the comprehensive licensing of retrofits to the Charles Point Resource Recovery Facility in Westchester County, New York.
- Wheelabrator Environmental Systems, Inc., Alabama, New York Waste-to-Energy Facility. Project manager for final site selection, air quality impact analysis, and state environmental quality review (SEQR) licensing of a proposed 1,500 ton per day regional waste-to-energy facility.
- Ogden Martin Systems, Montgomery County, Maryland Resource Recovery Facility. Project manager for environmental permitting of an 1,800-tons per day (tpd) resource recovery facility and associated transfer station. Regional permits include solid waste management, wetlands, water appropriation, NPDES, and cultural resources and endangered species reviews.
- Ogden Martin Systems, Lancaster County, Pennsylvania NO_x RACT Plan. Project manager for development of a NO_x Reasonably Available Control Technology (RACT) plan for a 1,200-tpd resource recovery facility.

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- Warren Energy Resource Company, New Jersey NO_x RACT Plan. Project manager for development of a NO_x RACT plan for a 400-tpd resource recovery facility.
- American Ref-Fuel, Green Island, New York Integrated Solid Waste Management Facility. Project manager for a comprehensive environmental assessment of a 1,500-tpd resource recovery facility and 300 tpd materials recycling facility.
- Cogentrix, Inc., Portsmouth, Virginia Waste-fired Power Plant. Project manager for environmental permitting of an 1150 tpd municipal waste-fired power plant.
- Old State Management Corporation, Lancaster, Massachusetts Resource Recovery Facility. Project manager for EIR and environmental permitting for the North County Resource Recovery Facility. Project would combust 800 tpd of municipal solid waste and recycle 150 tpd of aluminum, ferrous materials, cardboard and plastics, and compost yard wastes.
- Catalyst Waste-to-Energy Corporation, Massachusetts Resource Recovery Facility. Site evaluation and feasibility assessment for a proposed resource recovery facility in southeastern Massachusetts.
- American Ref-Fuel, Pennsylvania Co-disposal Facility. Provided technical support in several areas for preparing permit application for the Lehigh Valley Waste-to-Energy Co-disposal Facility. The facility was proposed to accept 1,000 tpd of municipal solid waste and 260 tpd of sewage sludge cake.
- Power Recovery Systems, Quincy, Massachusetts Resource Recovery Facility. Managed EIR for a 400 tpd waste-to-energy facility. Major issues included air quality, ash disposal, wetlands, protection of endangered species, proximity of the proposed facility to the Blue Hills Reservation, and noise. Represented client at meetings with various regulatory agencies.
- BioMedical Waste Systems, Chelsea, Massachusetts Processing Facility. Principal-incharge for comprehensive licensing of prototypical biomedical waste processing facility in Massachusetts. Key permit requirements included site assignment waiver, solid waste management facility permit and Department of Health approval.
- BioSafe, Inc., Concord, New Hampshire Biomedical Waste Incinerator. Directed critical flaw assessment and permit strategy development for proposed Biomedical waste incinerator.

Natural Gas Pipeline System Licensing

- Wallkill Transport Company, Wallkill, New York FERC Certification and Licensing. Directed comprehensive environmental licensing of a 26-mile interstate natural gas pipeline from Sussex, New Jersey to Wallkill, New York.
- Consolidated Natural Gas Transmission Company, Oswego County, New York FERC Certification. Technical coordination of FERC Open Season Application for a pipeline from Oswego County, New York through Jefferson County to the Canadian border.

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Algonquin Gas Transmission Company – FERC Certification. Responsible for senior technical review of several FERC Certification applications for various pipeline segments throughout the Northeast.

Wastewater Treatment Plant/Residuals Management Facility Licensing

- Massachusetts Water Resources Authority, Boston, Massachusetts Residuals Management Facilities Plan. Site assessment team leader for Residuals Management Facilities Plan, a key component of the Boston Harbor cleanup effort. Developed site screening methodology and criteria for quantitative screening of 300 sites in eastern Massachusetts for selection of locations for coastal transfer facility sludge composting facility, incinerator, and secured landfill. Coordinated environmental assessment of finalist sites and developed option evaluation criteria.
- Washington Suburban Sanitation Commission, Washington, D.C. Siting Methodology Development. Responsible for development of residuals management facility siting methodology. Study was to identify alternative locations in the metropolitan Washington, D.C. area for use in disposing of wastewater treatment plant residuals.

Petroleum Refinery Facility Licensing

- Mellen Associates, Paulsboro, New Jersey MTBE Refinery. Directed critical flaw assessment and licensing strategy development for a proposed methyl-tertiary butyl ether facility near Paulsboro, New Jersey.
- Confidential Client Sour Gas Refinery. Directed site selection and critical flaw analysis for a proposed Sour Gas Refinery in Michigan.

Air Quality Studies

- Domino Sugar Corporation, Brooklyn, New York NO_x RACT Plan for Sugar Refinery. Prepared NO_x RACT plan for Domino Sugar's Brooklyn, New York refinery.
- Tennessee Valley Authority. Project manager for independent external peer review of the 1985 National Acid Precipitation Assessment Program emissions inventory compilation efforts. Review focused on the adequacy of the emissions data to support applications for the regional acid deposition model.
- U.S. Environmental Protection Agency Dioxin Study. Modeled air transport of dioxin from contaminated network of unpaved roadways in Missouri as part of a health risk assessment. Developed modeling protocol for examination of dioxin-contaminated horse arena.
- National Commission on Air Quality Air Quality Modeling. Conducted regional scale air quality modeling analyses covering the New York, New Jersey, and Connecticut area for SO₂ TSP, and NO_x. Evaluated several fuel switching and energy conservation scenarios. Conducted a critical review of the emissions/air quality portions for the state implementation plans submitted for this area.



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- **U.S. Department of Energy.** Contributing author of the Acid Rain Information Book-Second Edition. Wrote chapter on monitoring programs and results.
- U.S. Environmental Protection Agency Emission Inventory. Directed several emissions inventory compilations to support regional scale Eulerian modeling. Directed the Northeast Corridor Regional Modeling Project Emissions Inventory and the 1980 National Acid Precipitation Assessment Program Eulerian Modeling Emissions Inventory efforts.
- U.S. Environmental Protection Agency Stack Height Regulations. Managed program for the Control Programs Development Division to identify and evaluate sources affected by revisions to EPA's stack height regulations.
- U.S. Environmental Protection Agency TSP Inventory. Conducted microinventories of total suspended particulates to determine causes of non-attainment in the Steubenville, Ohio Wheeling, West Virginia area.
- U.S. Environmental Protection Agency Dispersion Modeling. Conducted dispersion modeling analysis of air quality impacts of incineration of toxic waste in New Jersey.

Commercial Development Project Licensing

- U.S. Postal Service, White River Junction, New Hampshire Facility Expansion. Managed NEPA Environmental Assessment for expansion of the White River Junction General Mail Facility. Project entailed adding 45,000 square feet of floor area and 93,500 square feet of parking and maneuvering area. Key issues included traffic, noise and local zoning.
- Shoppers World, Framingham, Massachusetts Air Quality Analyses. Managed mobile source air quality modeling analyses surrounding transportation system improvements associated with expansion of the mall.
- Phillips Academy, Massachusetts Air Quality Analysis. Directed air quality analyses resulting in favorable ruling pertaining to energy credits application. Key issues included combined impacts of nearby facilities and interstate transport.
- Ocean Spray Cranberries, Massachusetts Air Quality Analysis. Managed air quality analysis and prepared supporting documentation for permits to construct and operate an additional boiler. Represented client at meetings with regulatory agencies.
- Swansea Square, Swansea, Massachusetts Wetlands Evaluation. Managed a wetlands and hydrology evaluation and mitigation strategy development project for a proposed shopping mall in southeastern Massachusetts. A key issue was the creation of a compensatory wetlands replication area.

PROFESSIONAL AFFILIATIONS

Air and Waste Management Association Northeast Energy and Commerce Association, Vice President

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PREVIOUS EMPLOYERS

ENSR Consulting and Engineering, March 1986 to June 1993 GCA/Technology Division, May 1978 to March 1986

OFFICE LOCATION

Concord, Massachusetts

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	5. Informal Local Filings Agreements		A STATE SALES	HOMMER		-		and the second	References of	Contraction of the	Concession in the	in such	-		1										
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and Teen	5.3 Water Connection Permitting (Potable)						-				- and the second	oltra la	and the second second	4											
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