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TAMPA ELECTRIC COMPANY

BEFORE THE

FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 992014-EI

TESTIMONY AND EXHIBIT OF

HOWARD T. BRYANT

DOCUMENT NUMBER-DATE

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1		BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION
2		PREPARED DIRECT TESTIMONY
3		OF
4		HOWARD T. BRYANT
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7	Q.	Please state your name, address, occupation and employer.
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9	A.	My name is Howard T. Bryant. My business address is 702
10		North Franklin Street, Tampa, Florida 33602. I am the
11		Manager of Energy Management and Forecasting for Tampa
12		Electric Company ("Tampa Electric" or "company").
13		
14	Q.	Please provide a brief outline of your educational
15		background and business experience.
16		
17	A.	I graduated from the University of Florida in June 1973
18		with a Bachelor of Science degree in Business
19		Administration. I have been employed at Tampa Electric
20		since August 1981. My work has included various
21		positions in Customer Relations, Energy Conservation
22		Services, Demand Side Management ("DSM") Planning and
23		Energy Management and Forecasting.
24		In my current position, I am responsible for the
25		company's conservation, load management and load

forecasting activities. This responsibility includes ongoing management of Energy Conservation Cost Recovery ("ECCR") expenditures and cost recovery, goals setting, program design initiatives and program monitoring and evaluation.

Q. Mr. Bryant, have you previously testified before the Florida Public Service Commission ("Commission")?

10 A. Yes. I have testified before this Commission on
 11 conservation and load management activities, DSM goals
 12 setting and DSM plan approval dockets and ECCR dockets
 13 since 1993.

15 Q. What is the purpose of your testimony in this proceeding?

The purpose of my testimony is to demonstrate that Tampa Α. 17 Electric has evaluated and taken all reasonably available 18 cost-effective conservation measures for the 2000 through 19 2009 period. Ι will identify the origin of those 20 measures evaluated and present the Commission's ruling as 21 to the measures' appropriateness. 22

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24 Q. Have you prepared an exhibit in support of your 25 testimony?

A. Yes, under my direction and supervision I have prepared an exhibit entitled, "Exhibit of Howard T. Bryant." It consists of one document and has been identified as Exhibit No. ____ (HTB-1).

- Q. Has Tampa Electric taken all reasonably available costeffective conservation measures to mitigate a portion of
 the need for some of the proposed activities for the
 period 2000 through 2009?
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11 **A.** Yes.

Q. Mr. Bryant, for the period 2000 through 2009, how did
 Tampa Electric determine the measures to be evaluated for
 cost-effectiveness?

In Docket No. 971007-EG, Adoption of Numeric Conservation 17 A. Goals by Tampa Electric Company, Tampa Electric chose a 18 multi-faceted approach toward measure identification for 19 purposes of calculating cost-effectiveness and ultimately 20 setting numeric conservation goals. The identification 21 approach consisted of: 1) approximately 265 measures from 22 the previous goals docket (Docket No. 930551-EG) that 23 were brought into the process by the Commission Staff at 24 the January 7, 1998 workshop; 2) all measures currently 25

in existing DSM programs offered offered by Tampa 1 Electric; 3) measures identified in the last goals docket 2 as having potential inclusion in the State building code 3 to-date, yet to be codified; and 4) measures but, 4 interested parties for which Florida-5 suggested by ultimate specific data was available. The list of 6 measures evaluated by Tampa Electric is found in Document 7 No. 1 of my Exhibit. 8 9 How were the measures determined to be cost-effective? Q. 10 11 Rule 25-17.008, F.A.C., is the Commission's prescribed Α. 12 that cost-effectiveness methodology describes three 13 tests for determining cost-effectiveness, separate 14 specifically, the Rate Impact Measure ("RIM") Test, the 15 Total Resource Cost ("TRC") Test and the Participants' 16 Test. By application of this methodology, measures that 17 passed the RIM, TRC and Participants' tests were used in 18 determining Tampa Electric's proposed numeric goals for 19 20 the 2000 through 2009 period. 21 What was the Commission's decision on Tampa Electric's 22 Q. proposed goals? 23 24 In Docket No. 971007-EG, Order No. PSC-99-1942-FOF-EG, 25 Α.

issued October 1, 1999, the Commission found that Tampa 1 Electric's proposed DSM goals and the method employed by 2 the company to establish those goals to be appropriate. 3 That decision by the Commission solidified the fact that 4 Tampa Electric considered and evaluated all reasonably 5 available cost-effective conservation measures for the 6 2000 through 2009 period. 7 8 How will the cost-effective measures that comprise Tampa 9 Q. Electric's DSM goals be delivered to the marketplace? 10 11 Rule 25-17.0021(4), F.A.C., requires a utility to file Α. 12 its DSM plan designed to meet the utility's approved 13 goals within 90 days of a final order establishing goals. 14 Tampa Electric has complied with the rule by filing a 15 specific plan outlining cost-effective programs that 16 contain the measures utilized to establish the DSM goals. 17 This plan was filed in Docket No. 991791-EG on December 18 29, 1999. 19 20 Please characterize how the participation projections of 21 Q. cost-effective the various programs containing the 22

measures to be delivered to the marketplace determined?

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were

Tampa Electric relied upon several factors to establish Α. 1 appropriate participation rates for the DSM programs 2 For example, some measures are contained in our plan. 3 relatively new to the marketplace and their adoption 4 rates to-date have been moderate. For these types of 5 measures, an aggressive approach has been designed for 6 their programs in order to achieve greater penetrations. 7 1980s, early Tampa Electric However, from the has 8 aggressively promoted conservation programs to our 9 This is evidenced by the fact that Tampa customers. 10 Electric was the only investor-owned utility to meet its 11 Florida Energy Efficiency and Conservation Act ("FEECA") 12 goals by the end of the decade. The company's early 13 success created a mature market with respect to certain 14 conservation measures and it is becoming increasingly 15 incremental participant. difficult to secure the next 16 For these programs where the company's early success has 17 created a mature market, some potential still exists 18 (i.e., heat pumps and load control measures). To the 19 extent these measures can continue to be delivered to the 20 marketplace cost-effectively, their contributions to goal 21 achievement were identified. Tampa Electric believes the 22 Commission will find the company's overall plan to be 23 delivering comprehensive and capable of the 24 25 accomplishment of the company's approved goals.

Bryant, how often are DSM goals established for 1 ο. Mr. utilities? 2 3 Rule 25-17.0021(2), F.A.C., requires the Commission to 4 Α. qoals five establish ten-year DSM every years. 5 Essentially, this allows for a midstream "look" at the 6 appropriateness of previously established ten-year goals 7 and provides an opportunity for modifications to be made 8 where necessary. 9 10 Will Tampa Electric's DSM plan that is designed to meet Q. 11 Commission-approved goals remain static during the five-12 13 year period? 14 No, quite the contrary. On an annual basis, 15 Α. Tampa Electric evaluates the cost-effectiveness and saturation 16 its DSM programs while maintaining a 17 levels of all surveillance for any new measures that have proven to be 18 commercially available in the marketplace. Additionally, 19 the company is engaged in ongoing research and 20 development activities that strive to identify measure 21 applications with Florida-specific climatological 22 and 23 economic data. To the extent that any discoveries may be ready for program inclusion, the company moves forward 24 with program development. Clearly, this dynamic, annual 25

planning process undertaken by Electric 1 DSM Tampa demonstrates a continuing commitment to deliver cost-2 effective conservation measures to the marketplace. 3 4 How does Tampa Electric's Clean Air Act Compliance Plan 5 Q. ("Compliance Plan") impact the company's conservation 6 activities? 7 8 Α. With the Compliance Plan proposed by Tampa Electric, the 9 10 company expects the next avoided unit to be a combustion turbine 11 ("CT") resource with similar characteristics (cost per kW for construction, unit fuel cost, in-service 12 13 date, etc.) as to those associated with the current CT resource utilized in the recent DSM goals setting docket 14 (Docket No. 971007-EG) and DSM plan development docket 15 (Docket No. 991791-EG). Therefore, the conservation 16 17 activities will experience a very minimal impact if any at all. 18 19 20 Q. Does this conclude your testimony? 21 A. Yes, it does. 22 23 24 25

TAMPA ELECTRIC COMPANY DOCKET NO. 992014-EI WITNESS:HOWARD T. BRYANT EXHIBIT NO. (HTB-1)

TAMPA ELECTRIC COMPANY

EXHIBIT OF HOWARD T. BRYANT

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DSM MEASURE EVALUATION LIST

RESIDENTIAL NEW CONSTRUCTION

FROM COMMISSION WORKSHOP - JANUARY 7, 1998

HIGH EFFICIENCY CLOTHES WASHER CW-1 FR-1 BEST CURRENT FREEZER (FROST-FREE) **BEST CURRENT FREEZER (MANUAL)** FR-2 COMPACT FLUORESCENT LT-1 **EFFICIENT INCANDESCENT** LT-2 LT-3 HIGH PRESSURE SODIUM (OUTDOOR) PP-3 DLC OF POOL PUMPS BEST CURRENT REFRIGERATOR (FROST-FREE) RF-1 BEST CURRENT REFRIGERATOR (MANUAL) RF-2 HIGH EFFICIENCY AIR SOURCE HEAT PUMP RSC-1 **GROUND SOURCE HEAT PUMP** RSC-2 RSC-3 TWO SPEED HEAT PUMP SETBACK/PROGRAMMABLE THERMOSTAT RSC-7A SETBACK/PROGRAMMABLE THERMOSTAT RSC-7B LOAD CONTROL FOR RESIDENTIAL ELECTRIC HEAT RSC-8A LOAD CONTROL FOR RESIDENTIAL ELECTRIC HEAT RSC-8B RSC-21A HIGH EFFICIENCY CENTRAL AC TWO SPEED CENTRAL AC RSC-22A HIGH EFFICIENCY ROOM AC RSC-24A DLC OF CENTRAL AC RSC-26A RSC-26B DLC OF CENTRAL AC WH-1 HIGH EFFICIENCY ELECTRIC RESISTANCE WATER HEATER INTEGRAL HEAT PUMP WATER HEATER WH-2 WH-3 SOLAR WATER HEATER HEAT RECOVERY WATER HEATER (DESUPERHEATER) WH-4 WH-5 ADD-ON HEAT PUMP WATER HEATER DHW HEATER TANK INSULATION WH-6 WH-10 DLC OF ELECTRIC WATER HEATER

ADDITIONAL RESIDENTIAL NEW CONSTRUCTION

LT-4	MOTION DETECTORS FOR OUTDOOR LIGHTING
RSC-05A	REDUCED DUCT LEAKAGE
RSC-05B	REDUCED DUCT LEAKAGE
RSC-19A	REFLECTIVE ROOF COATINGS
RSC-19B	REFLECTIVE ROOF COATINGS
RSC-29	RESIDENTIAL HIGH EFFICIENCY HEAT PUMP
WH-8	DHW HEAT TRAP
WH-9	LOW FLOW SHOWERHEAD
TECO	LOAD MANAGEMENT

COMMERCIAL NEW CONSTRUCTION

FROM COMMISSION WORKSHOP - JANUARY 7, 1998

- CD-19 ENERGY EFFICIENT ELECTRIC FRYERS
- LD-25 COMPACT FLOURESCENT LAMPS (15/18/27W)
- LD-26 TWO LAMP COMPACT FLOURESCENT (18W)
- SCD-1 HIGH EFFICIENCY CHILLER
- SCD-2 HIGH EFFICIENCY CHILLER W/ASD
- SCD-3 HIGH EFFICIENCY DX AC
- SCD-4 HIGH EFFICIENCY ROOM AC UNITS 1

COMMERCIAL NEW CONSTRUCTION

FROM COMMISSION WORKSHOP - JANUARY 7, 1998 (CONT.)

SCD-5	COOL STORAGE
VD-8	HIGH EFFICIENCY MOTORS-CHILLERS
VD-9	HIGH EFFICIENCY MOTORS-DX AC
WD-11	HEAT PUMP WATER HEATER

WD-12 SOLAR WATER HEATER

WD-13 HEAT RECOVERY WATER HEATER

ADDITIONAL COMMERCIAL NEW CONSTRUCTION

LD-58'-60W FLOUR LAMPS/ELECTRONIC BALLASTS (#1)LD-8T8 LAMPS/ELECTRONIC BALLASTS (#2)LD-11REFL/DELAMP INSTALL 8'-75W FLOUR LAMPS/EE BALLASTLD-12REFL/DELAMP INSTALL 8'-60W FLOUR LAMPS/EE BALLASTLD-17REFL/DELAMP INSTALL 8'-60W FLOUR LAMPS/EE BALLASTLD-18REFL/DELAMP INSTALL 8'-60W FLOUR LAMPS/EE BALLASTLD-21HIGH PRESSURE SODIUM (70/100/150/250W)LD-22HIGH PRESSURE SODIUM (70/100/150/250W)LD-23HIGH PRESSURE SODIUM (70/100/150/250W)LD-24ENERGY MANAGEMENT SYSTEM FOR LIGHTINGLD-25DAYLIGHTING DESIGNRD-1MULTIPLEX AIR-COOLED/NO SUBCOOLINGRD-2MULTIPLEX AIR-COOLED/AMBIENT SUBCOOLINGRD-3MULTIPLEX AIR-COOLED/AMBIENT & MECHANICAL SUBCOOLRD-4MULTIPLEX AIR-COOLED/AMBIENT & MECHANICAL SUBCOOLRD-5MULTIPLEX AIR-COOLED/AMBIENT & MECHANICAL SUBCOOLRD-6OPEN DRIVE REFRIGERATION SYSTEM (ASD)RD-7ANT-CONDENSATE HEATER CONTROLSRD-8HIGH R-VALUE GLASS DOORSRD-9REFRIGERATION ENERGY MANAGEMENT SYSTEM (EMS)RD-10DUAL PATH AIR CONDITIONINGSCD-82-SPEED MOTOR FOR COOLING TOWERSSCD-13HVAC AIR DUCTWATER PIPE INSULATION-CHILLERSCD-14TEMPERATURE SETUP/SETBACK-DX ACSCD-15TEMPERATURE SETUP/SETBACK-CHILLERSCD-16TEMPERATURE SETUP/SETBACK-CHILLERSCD-17LIGHT COLORED ROOFS-CHILLERSCD-18ROOF INSULATION-CONTROL W/VAV-CHILLERSVD-4ASD VENTILATION CONTROL W/VAV-CHILLERSVD-5 <td< th=""><th></th><th></th></td<>		
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LD-23HIGH PRESSURE SODIUM (35W)LD-27ENERGY MANAGEMENT SYSTEM FOR LIGHTINGLD-28OCCUPANCY SENSORSLD-29DAYLIGHTING DESIGNRD-1MULTIPLEX AIR-COOLED/NO SUBCOOLINGRD-3MULTIPLEX AIR-COOLED/AMBIENT SUBCOOLINGRD-4MULTIPLEX AIR-COOLED/AMBIENT & MECHANICAL SUBCOOLRD-5MULTIPLEX AIR-COOLED/AMBIENT & MECHANICAL SUBCOOLRD-6OPEN DRIVE REFRIGERATION SYSTEM (ASD)RD-7ANTI-CONDENSATE HEATER CONTROLSRD-8HIGH R-VALUE GLASS DOORSRD-9REFRIGERATION ENERGY MANAGEMENT SYSTEM (EMS)RD-10DUAL PATH AIR CONDITIONINGSCD-82-SPEED MOTOR FOR COOLING TOWERSCD-9SPEED CONTROL FOR COOLING TOWERSSCD-12HVAC AIR DUCT/WATER PIPE INSULATION-CHILLERSCD-13HVAC AIR DUCT/WATER PIPE INSULATION-CHILLERSCD-14TEMPERATURE SETUP/SETBACK-CHILLERSCD-15ROOF INSULATION-CHILLERSCD-26LIGHT COLORED ROOFS-DX ACSCD-27LIGHT COLORED ROOFS-DX ACVD-4ASD VENTILATION CONTROL W/VAV-DX ACVD-5ASD VENTILATION CONTROL W/VAV-CHILLERSVD-6TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATI	LD-21	HIGH PRESSURE SODIUM (70/100/150/250W)
LD-27ENERGY MANAGEMENT SYSTEM FOR LIGHTINGLD-28OCCUPANCY SENSORSLD-29DAYLIGHTING DESIGNRD-1MULTIPLEX AIR-COOLED/NO SUBCOOLINGRD-2MULTIPLEX AIR-COOLED/MBIENT SUBCOOLINGRD-3MULTIPLEX AIR-COOLED/MBIENT & MECHANICAL SUBCOOLRD-4MULTIPLEX AIR-COOLED/AMBIENT & MECHANICAL SUBCOOLRD-5MULTIPLEX AIR-COOLED/EXTERNAL LIQUID SUCTION HXRD-6OPEN DRIVE REFRIGERATION SYSTEM (ASD)RD-7ANTI-CONDENSATE HEATER CONTROLSRD-8HIGH R-VALUE GLASS DOORSRD-9REFRIGERATION ENERGY MANAGEMENT SYSTEM (EMS)RD-10DUAL PATH AIR CONDITIONINGSCD-82-SPEED MOTOR FOR COOLING TOWERSCD-9SPEED CONTROL FOR COOLING TOWERSSCD-12HVAC AIR DUCT/WATER PIPE INSULATION-CHILLERSCD-13HVAC AIR DUCT/WATER PIPE INSULATION-DX ACSCD-14TEMPERATURE SETUP/SETBACK-CHILLERSCD-15ROOF INSULATION-DX ACSCD-16TEMPERATURE SETUP/SETBACK-DX ACSCD-17TEMPERATURE SETUP/SETBACK-DX ACSCD-18ROOF INSULATION-DX ACSCD-27LIGHT COLORED ROOFS-CHILLERSCD-27LIGHT COLORED ROOFS-DX ACVD-1LEAK FREE DUCTS DX ACVD-3ASD VENTILATION CONTROL W/VAV-DX ACVD-4ASD VENTILATION CONTROL W/VAV-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-CHILLERSV	LD-22	HIGH PRESSURE SODIUM (70/100/150/250W -W/ES BALLAST)
LD-28OCCUPANCY SENSORSLD-29DAYLIGHTING DESIGNRD-1MULTIPLEX AIR-COOLED/NO SUBCOOLINGRD-2MULTIPLEX AIR-COOLED/AMBIENT SUBCOOLINGRD-3MULTIPLEX AIR-COOLED/AMBIENT & MECHANICAL SUBCOOLRD-4MULTIPLEX AIR-COOLED/AMBIENT & MECHANICAL SUBCOOLRD-5MULTIPLEX AIR-COOLED/EXTERNAL LIQUID SUCTION HXRD-6OPEN DRIVE REFRIGERATION SYSTEM (ASD)RD-7ANTI-CONDENSATE HEATER CONTROLSRD-8HIGH R-VALUE GLASS DOORSRD-9REFRIGERATION ENERGY MANAGEMENT SYSTEM (EMS)RD-10DUAL PATH AIR CONDITIONINGSCD-82-SPEED MOTOR FOR COOLING TOWERSCD-9SPEED CONTROL FOR COOLING TOWERSSCD-12HVAC AIR DUCT/WATER PIPE INSULATION-CHILLERSCD-13HVAC AIR DUCT/WATER PIPE INSULATION-DX ACSCD-14ROF INSULATION-CHILLERSCD-15ROOF INSULATION-CHILLERSCD-16TEMPERATURE SETUP/SETBACK-CHILLERSCD-17TEMPERATURE SETUP/SETBACK-DX ACSCD-26LIGHT COLORED ROOFS-CHILLERSCD-27LIGHT COLORED ROOFS-DX ACVD-1LEAK FREE DUCTS DX ACVD-4ASD VENTILATION CONTROL W/VAV-DX ACVD-5ASD VENTILATION CONTROL W/VAV-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-10SEPARATE MAKEUP AIR/EXHAUST HOODS-CHILLERSVD-11SEPARATE MAKEUP AIR/EXHAUST HOODS-CHILLER	LD-23	HIGH PRESSURE SODIUM (35W)
LD-29DAYLIGHTING DESIGNRD-1MULTIPLEX AIR-COOLED/NO SUBCOOLINGRD-2MULTIPLEX AIR-COOLED/AMBIENT SUBCOOLINGRD-3MULTIPLEX AIR-COOLED/AMBIENT & MECHANICAL SUBCOOLRD-4MULTIPLEX AIR-COOLED/EXTERNAL LIQUID SUCTION HXRD-5MULTIPLEX AIR-COOLED/EXTERNAL LIQUID SUCTION HXRD-6OPEN DRIVE REFRIGERATION SYSTEM (ASD)RD-7ANTI-CONDENSATE HEATER CONTROLSRD-8HIGH R-VALUE GLASS DOORSRD-9REFRIGERATION ENERGY MANAGEMENT SYSTEM (EMS)RD-10DUAL PATH AIR CONDITIONINGSCD-82-SPEED MOTOR FOR COOLING TOWERSCD-12HVAC AIR DUCT/WATER PIPE INSULATION-CHILLERSCD-13HVAC AIR DUCT/WATER PIPE INSULATION-DX ACSCD-14TEMPERATURE SETUP/SETBACK-CHILLERSCD-15ROOF INSULATION-CHILLERSCD-16TEMPERATURE SETUP/SETBACK-DX ACSCD-17TEMPERATURE SETUP/SETBACK-DX ACSCD-26LIGHT COLORED ROOFS-CHILLERSCD-27LIGHT COLORED ROOFS-DX ACVD-1LEAK FREE DUCTS DX ACVD-4ASD VENTILATION CONTROL W/VAV-DX ACVD-5ASD VENTILATION CONTROL W/VAV-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-10SEPAR	LD-27	ENERGY MANAGEMENT SYSTEM FOR LIGHTING
RD-1MULTIPLEX AIR-COOLED/NO SUBCOOLINGRD-2MULTIPLEX AIR-COOLED/AMBIENT SUBCOOLINGRD-3MULTIPLEX AIR-COOLED/AMBIENT & MECHANICAL SUBCOOLRD-4MULTIPLEX AIR-COOLED/AMBIENT & MECHANICAL SUBCOOLRD-5MULTIPLEX AIR-COOLED/AMBIENT & MECHANICAL SUBCOOLRD-6OPEN DRIVE REFRIGERATION SYSTEM (ASD)RD-7ANTI-CONDENSATE HEATER CONTROLSRD-8HIGH R-VALUE GLASS DOORSRD-9REFRIGERATION ENERGY MANAGEMENT SYSTEM (EMS)RD-10DUAL PATH AIR CONDITIONINGSCD-82-SPEED MOTOR FOR COOLING TOWERSCD-9SPEED CONTROL FOR COOLING TOWERSSCD-12HVAC AIR DUCT/WATER PIPE INSULATION-DX ACSCD-13HVAC AIR DUCT/WATER PIPE INSULATION-DX ACSCD-14TEMPERATURE SETUP/SETBACK-CHILLERSCD-15ROOF INSULATION-CHILLERSCD-16TEMPERATURE SETUP/SETBACK-DX ACSCD-17LEAK FREE DUCTS DX ACVD-1LEAK FREE DUCTS DX ACVD-4ASD VENTILATION CONTROL W/VAV-DX ACVD-5ASD VENTILATION CONTROL W/VAV-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7SEPARATE MAKEUP AIR/EXHAUST HOODS-CHILLERSVD-10SEPARATE MAKEUP AIR/EXHAUST HOODS-CHILLERS </td <td>LD-28</td> <td>OCCUPANCY SENSORS</td>	LD-28	OCCUPANCY SENSORS
RD-2MULTIPLEX AIR-COOLED/AMBIENT SUBCOOLINGRD-3MULTIPLEX AIR-COOLED/MECHANICAL SUBCOOLINGRD-4MULTIPLEX AIR-COOLED/MECHANICAL SUBCOOLINGRD-5MULTIPLEX AIR-COOLED/EXTERNAL LIQUID SUCTION HXRD-6OPEN DRIVE REFRIGERATION SYSTEM (ASD)RD-7ANTI-CONDENSATE HEATER CONTROLSRD-8HIGH R-VALUE GLASS DOORSRD-9REFRIGERATION ENERGY MANAGEMENT SYSTEM (EMS)RD-10DUAL PATH AIR CONDITIONINGSCD-82-SPEED MOTOR FOR COOLING TOWERSCD-9SPEED CONTROL FOR COOLING TOWERSCD-12HVAC AIR DUCT/WATER PIPE INSULATION-DX ACSCD-13HVAC AIR DUCT/WATER PIPE INSULATION-DX ACSCD-14TEMPERATURE SETUP/SETBACK-CHILLERSCD-17TEMPERATURE SETUP/SETBACK-CHILLERSCD-18ROOF INSULATION-CHILLERSCD-26LIGHT COLORED ROOFS-CHILLERSCD-27LIGHT COLORED ROOFS-CHILLERSCD-27LIGHT COLORED ROOFS-DX ACVD-4ASD VENTILATION CONTROL W/VAV-DX ACVD-5ASD VENTILATION CONTROL W/VAV-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7SEPARATE MAKEUP AIR/EXHAUST HOODS-CHILLERSVD-10SEPARATE MAKEUP AIR/EXHAUST HOODS-CHILLERSVD-11SEPARATE MAKEUP AIR/EXHAUST HOODS-CHILLERSVD-11SEPARATE MAKEUP AIR/EXHAUST HOODS-DX ACVD-11SEPARATE MAKEUP AIR/EXHAUST HOODS-DX ACVD-14DHW HEATER INSULATIONTECO <t< td=""><td>LD-29</td><td>DAYLIGHTING DESIGN</td></t<>	LD-29	DAYLIGHTING DESIGN
RD-3MULTIPLEX AIR-COOLED/MECHANICAL SUBCOOLINGRD-4MULTIPLEX AIR-COOLED/AMBIENT & MECHANICAL SUBCOOLRD-5MULTIPLEX AIR-COOLED/EXTERNAL LIQUID SUCTION HXRD-6OPEN DRIVE REFRIGERATION SYSTEM (ASD)RD-7ANTI-CONDENSATE HEATER CONTROLSRD-8HIGH R-VALUE GLASS DOORSRD-9REFRIGERATION ENERGY MANAGEMENT SYSTEM (EMS)RD-10DUAL PATH AIR CONDITIONINGSCD-82-SPEED MOTOR FOR COOLING TOWERSCD-9SPEED CONTROL FOR COOLING TOWERSSCD-12HVAC AIR DUCT/WATER PIPE INSULATION-CHILLERSCD-13HVAC AIR DUCT/WATER PIPE INSULATION-DX ACSCD-16TEMPERATURE SETUP/SETBACK-CHILLERSCD-17TEMPERATURE SETUP/SETBACK-DX ACSCD-19ROOF INSULATION-CHILLERSCD-19ROOF INSULATION-DX ACSCD-26LIGHT COLORED ROOFS-DX ACVD-1LEAK FREE DUCTS DX ACVD-4ASD VENTILATION CONTROL W/VAV-DX ACVD-5ASD VENTILATION CONTROL W/VAV-CHILLERSVD-6TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7SEPARATE MAKEUP AIR/EXHAUST HOODS-CHILLERSVD-11SEPARATE MAKEUP AIR/EXHAUST HOODS-DX ACVD-14DHW HEATER INSULATIONTECOCOMMERCIAL /INDUSTRIAL LOAD MANAGEMENTTECODX AC REPLACEMENT	RD-1	MULTIPLEX AIR-COOLED/NO SUBCOOLING
RD-4MULTIPLEX AIR-COOLED/AMBIENT & MECHANICAL SUBCOOLRD-5MULTIPLEX AIR-COOLED/EXTERNAL LIQUID SUCTION HXRD-6OPEN DRIVE REFRIGERATION SYSTEM (ASD)RD-7ANTI-CONDENSATE HEATER CONTROLSRD-8HIGH R-VALUE GLASS DOORSRD-9REFRIGERATION ENERGY MANAGEMENT SYSTEM (EMS)RD-10DUAL PATH AIR CONDITIONINGSCD-82-SPEED MOTOR FOR COOLING TOWERSCD-9SPEED CONTROL FOR COOLING TOWERSSCD-12HVAC AIR DUCT/WATER PIPE INSULATION-CHILLERSCD-13HVAC AIR DUCT/WATER PIPE INSULATION-CHILLERSCD-16TEMPERATURE SETUP/SETBACK-CHILLERSCD-17TEMPERATURE SETUP/SETBACK-CHILLERSCD-18ROOF INSULATION-CHILLERSCD-26LIGHT COLORED ROOFS-CHILLERSCD-27LIGHT COLORED ROOFS-DX ACVD-4ASD VENTILATION CONTROL W/VAV-DX ACVD-5ASD VENTILATION CONTROL W/VAV-CHILLERSVD-6TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-DX ACVD-10SEPARATE MAKEUP AIR/EXHAUST HOODS-CHILLERSVD-11SEPARATE MAKEUP AIR/EXHAUST HOODS-CHILLERSVD-14DHW HEATER INSULATIONVD-14DHW HEATER INSULATIONVD-14DHW HEATER INSULATIONVECOCOMMERCIAL /INDUSTRIAL LOAD MANAGEMENTTECODX AC REPLACEMENT	RD-2	MULTIPLEX AIR-COOLED/AMBIENT SUBCOOLING
RD-5MULTIPLEX AIR-COOLED/EXTERNAL LIQUID SUCTION HXRD-6OPEN DRIVE REFRIGERATION SYSTEM (ASD)RD-7ANTI-CONDENSATE HEATER CONTROLSRD-8HIGH R-VALUE GLASS DOORSRD-9REFRIGERATION ENERGY MANAGEMENT SYSTEM (EMS)RD-10DUAL PATH AIR CONDITIONINGSCD-82-SPEED MOTOR FOR COOLING TOWERSCD-9SPEED CONTROL FOR COOLING TOWERSSCD-12HVAC AIR DUCT/WATER PIPE INSULATION-CHILLERSCD-13HVAC AIR DUCT/WATER PIPE INSULATION-CHILLERSCD-14HVAC AIR DUCT/WATER PIPE INSULATION-CHILLERSCD-15TEMPERATURE SETUP/SETBACK-CHILLERSCD-16TEMPERATURE SETUP/SETBACK-DX ACSCD-17TEMPERATURE SETUP/SETBACK-DX ACSCD-18ROOF INSULATION-CHILLERSCD-26LIGHT COLORED ROOFS-CHILLERSCD-27LIGHT COLORED ROOFS-DX ACVD-1LEAK FREE DUCTS DX ACVD-4ASD VENTILATION CONTROL W/VAV-DX ACVD-5ASD VENTILATION CONTROL W/VAV-CHILLERSVD-6TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-DX ACVD-10SEPARATE MAKEUP AIR/EXHAUST HOODS-CHILLERSVD-11SEPARATE MAKEUP AIR/EXHAUST HOODS-CHILLERSVD-14DHW HEATER INSULATIONTECOCOMMERCIAL /INDUSTRIAL LOAD MANAGEMENTTECODX AC REPLACEMENT	RD-3	MULTIPLEX AIR-COOLED/MECHANICAL SUBCOOLING
RD-6OPEN DRIVE REFRIGERATION SYSTEM (ASD)RD-7ANTI-CONDENSATE HEATER CONTROLSRD-8HIGH R-VALUE GLASS DOORSRD-9REFRIGERATION ENERGY MANAGEMENT SYSTEM (EMS)RD-10DUAL PATH AIR CONDITIONINGSCD-82-SPEED MOTOR FOR COOLING TOWERSCD-9SPEED CONTROL FOR COOLING TOWERSSCD-12HVAC AIR DUCT/WATER PIPE INSULATION-CHILLERSCD-13HVAC AIR DUCT/WATER PIPE INSULATION-DX ACSCD-16TEMPERATURE SETUP/SETBACK-CHILLERSCD-17TEMPERATURE SETUP/SETBACK-DX ACSCD-18ROOF INSULATION-CHILLERSCD-26LIGHT COLORED ROOFS-CHILLERSCD-27LIGHT COLORED ROOFS-CHILLERSCD-27LIGHT COLORED ROOFS-DX ACVD-1LEAK FREE DUCTS DX ACVD-4ASD VENTILATION CONTROL W/VAV-DX ACVD-5ASD VENTILATION CONTROL W/VAV-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-10SEPARATE MAKEUP AIR/EXHAUST HOODS-CHILLERSVD-11SEPARATE MAKEUP AIR/EXHAUST HOODS-CHILLERSVD-14DHW HEATER INSULATIONTECOCOMMERCIAL /INDUSTRIAL LOAD MANAGEMENTTECODX AC REPLACEMENT	RD-4	MULTIPLEX AIR-COOLED/AMBIENT & MECHANICAL SUBCOOL
RD-7ANTI-CONDENSATE HEATER CONTROLSRD-8HIGH R-VALUE GLASS DOORSRD-9REFRIGERATION ENERGY MANAGEMENT SYSTEM (EMS)RD-10DUAL PATH AIR CONDITIONINGSCD-82-SPEED MOTOR FOR COOLING TOWERSCD-9SPEED CONTROL FOR COOLING TOWERSSCD-12HVAC AIR DUCT/WATER PIPE INSULATION-CHILLERSCD-13HVAC AIR DUCT/WATER PIPE INSULATION-DX ACSCD-16TEMPERATURE SETUP/SETBACK-CHILLERSCD-17TEMPERATURE SETUP/SETBACK-DX ACSCD-18ROOF INSULATION-CHILLERSCD-26LIGHT COLORED ROOFS-CHILLERSCD-27LIGHT COLORED ROOFS-CHILLERSCD-27LIGHT COLORED ROOFS-DX ACVD-1LEAK FREE DUCTS DX ACVD-5ASD VENTILATION CONTROL W/VAV-DX ACVD-6TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-10SEPARATE MAKEUP AIR/EXHAUST HOODS-CHILLERSVD-11SEPARATE MAKEUP AIR/EXHAUST HOODS-CHILLERSVD-14DHW HEATER INSULATIONTECOCOMMERCIAL /INDUSTRIAL LOAD MANAGEMENTTECODX AC REPLACEMENT	RD-5	MULTIPLEX AIR-COOLED/EXTERNAL LIQUID SUCTION HX
RD-8HIGH R-VALUE GLASS DOORSRD-9REFRIGERATION ENERGY MANAGEMENT SYSTEM (EMS)RD-10DUAL PATH AIR CONDITIONINGSCD-82-SPEED MOTOR FOR COOLING TOWERSCD-9SPEED CONTROL FOR COOLING TOWERSSCD-12HVAC AIR DUCT/WATER PIPE INSULATION-CHILLERSCD-13HVAC AIR DUCT/WATER PIPE INSULATION-DX ACSCD-16TEMPERATURE SETUP/SETBACK-CHILLERSCD-17TEMPERATURE SETUP/SETBACK-DX ACSCD-18ROOF INSULATION-CHILLERSCD-26LIGHT COLORED ROOFS-CHILLERSCD-27LIGHT COLORED ROOFS-DX ACVD-1LEAK FREE DUCTS DX ACVD-4ASD VENTILATION CONTROL W/VAV-DX ACVD-5ASD VENTILATION CONTROL W/VAV-CHILLERSVD-6TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-10SEPARATE MAKEUP AIR/EXHAUST HOODS-CHILLERSVD-11SEPARATE MAKEUP AIR/EXHAUST HOODS-CHILLERSVD-11SEPARATE MAKEUP AIR/EXHAUST HOODS-CHILLERSVD-11SEPARATE MAKEUP AIR/EXHAUST HOODS-DX ACVD-14DHW HEATER INSULATIONTECOCOMMERCIAL /INDUSTRIAL LOAD MANAGEMENTTECODX AC REPLACEMENT	RD-6	OPEN DRIVE REFRIGERATION SYSTEM (ASD)
RD-9REFRIGERATION ENERGY MANAGEMENT SYSTEM (EMS)RD-10DUAL PATH AIR CONDITIONINGSCD-82-SPEED MOTOR FOR COOLING TOWERSCD-9SPEED CONTROL FOR COOLING TOWERSSCD-12HVAC AIR DUCT/WATER PIPE INSULATION-CHILLERSCD-13HVAC AIR DUCT/WATER PIPE INSULATION-DX ACSCD-16TEMPERATURE SETUP/SETBACK-CHILLERSCD-17TEMPERATURE SETUP/SETBACK-DX ACSCD-18ROOF INSULATION-CHILLERSCD-19ROOF INSULATION-DX ACSCD-26LIGHT COLORED ROOFS-CHILLERSCD-27LIGHT COLORED ROOFS-DX ACVD-1LEAK FREE DUCTS DX ACVD-4ASD VENTILATION CONTROL W/VAV-DX ACVD-5ASD VENTILATION CONTROL W/VAV-CHILLERSVD-6TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-DX ACVD-10SEPARATE MAKEUP AIR/EXHAUST HOODS-CHILLERSVD-11SEPARATE MAKEUP AIR/EXHAUST HOODS-DX ACVD-14DHW HEATER INSULATIONTECOCOMMERCIAL /INDUSTRIAL LOAD MANAGEMENTTECODX AC REPLACEMENT	RD-7	ANTI-CONDENSATE HEATER CONTROLS
RD-10DUAL PATH AIR CONDITIONINGSCD-82-SPEED MOTOR FOR COOLING TOWERSCD-9SPEED CONTROL FOR COOLING TOWERSSCD-12HVAC AIR DUCT/WATER PIPE INSULATION-CHILLERSCD-13HVAC AIR DUCT/WATER PIPE INSULATION-DX ACSCD-16TEMPERATURE SETUP/SETBACK-CHILLERSCD-17TEMPERATURE SETUP/SETBACK-DX ACSCD-18ROOF INSULATION-CHILLERSCD-19ROOF INSULATION-DX ACSCD-26LIGHT COLORED ROOFS-CHILLERSCD-27LIGHT COLORED ROOFS-DX ACVD-1LEAK FREE DUCTS DX ACVD-4ASD VENTILATION CONTROL W/VAV-DX ACVD-5ASD VENTILATION CONTROL W/VAV-CHILLERSVD-6TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-10SEPARATE MAKEUP AIR/EXHAUST HOODS-CHILLERSVD-11SEPARATE MAKEUP AIR/EXHAUST HOODS-CHILLERSVD-14DHW HEATER INSULATIONTECOCOMMERCIAL /INDUSTRIAL LOAD MANAGEMENTTECODX AC REPLACEMENT	RD-8	HIGH R-VALUE GLASS DOORS
RD-10DUAL PATH AIR CONDITIONINGSCD-82-SPEED MOTOR FOR COOLING TOWERSCD-9SPEED CONTROL FOR COOLING TOWERSSCD-12HVAC AIR DUCT/WATER PIPE INSULATION-CHILLERSCD-13HVAC AIR DUCT/WATER PIPE INSULATION-DX ACSCD-16TEMPERATURE SETUP/SETBACK-CHILLERSCD-17TEMPERATURE SETUP/SETBACK-DX ACSCD-18ROOF INSULATION-CHILLERSCD-19ROOF INSULATION-DX ACSCD-26LIGHT COLORED ROOFS-CHILLERSCD-27LIGHT COLORED ROOFS-DX ACVD-1LEAK FREE DUCTS DX ACVD-4ASD VENTILATION CONTROL W/VAV-DX ACVD-5ASD VENTILATION CONTROL W/VAV-CHILLERSVD-6TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-10SEPARATE MAKEUP AIR/EXHAUST HOODS-CHILLERSVD-11SEPARATE MAKEUP AIR/EXHAUST HOODS-DX ACVD-14DHW HEATER INSULATIONTECOCOMMERCIAL /INDUSTRIAL LOAD MANAGEMENTTECODX AC REPLACEMENT	RD-9	REFRIGERATION ENERGY MANAGEMENT SYSTEM (EMS)
SCD-9SPEED CONTROL FOR COOLING TOWERSSCD-12HVAC AIR DUCT/WATER PIPE INSULATION-CHILLERSCD-13HVAC AIR DUCT/WATER PIPE INSULATION-DX ACSCD-16TEMPERATURE SETUP/SETBACK-CHILLERSCD-17TEMPERATURE SETUP/SETBACK-DX ACSCD-18ROOF INSULATION-CHILLERSCD-19ROOF INSULATION-DX ACSCD-26LIGHT COLORED ROOFS-CHILLERSCD-27LIGHT COLORED ROOFS-DX ACVD-1LEAK FREE DUCTS DX ACVD-4ASD VENTILATION CONTROL W/VAV-DX ACVD-5ASD VENTILATION CONTROL W/VAV-CHILLERSVD-6TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-DX ACVD-10SEPARATE MAKEUP AIR/EXHAUST HOODS-CHILLERSVD-11SEPARATE MAKEUP AIR/EXHAUST HOODS-DX ACVD-14DHW HEATER INSULATIONTECOCOMMERCIAL /INDUSTRIAL LOAD MANAGEMENTTECODX AC REPLACEMENT	RD-10	
SCD-12HVAC AIR DUCT/WATER PIPE INSULATION-CHILLERSCD-13HVAC AIR DUCT/WATER PIPE INSULATION-DX ACSCD-16TEMPERATURE SETUP/SETBACK-CHILLERSCD-17TEMPERATURE SETUP/SETBACK-DX ACSCD-18ROOF INSULATION-CHILLERSCD-19ROOF INSULATION-DX ACSCD-26LIGHT COLORED ROOFS-CHILLERSCD-27LIGHT COLORED ROOFS-DX ACVD-1LEAK FREE DUCTS DX ACVD-4ASD VENTILATION CONTROL W/VAV-DX ACVD-5ASD VENTILATION CONTROL W/VAV-CHILLERSVD-6TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-10SEPARATE MAKEUP AIR/EXHAUST HOODS-CHILLERSVD-11SEPARATE MAKEUP AIR/EXHAUST HOODS-DX ACVD-14DHW HEATER INSULATIONTECOCOMMERCIAL /INDUSTRIAL LOAD MANAGEMENTTECODX AC REPLACEMENT	SCD-8	2-SPEED MOTOR FOR COOLING TOWER
SCD-13HVAC AIR DUCT/WATER PIPE INSULATION-DX ACSCD-16TEMPERATURE SETUP/SETBACK-CHILLERSCD-17TEMPERATURE SETUP/SETBACK-DX ACSCD-18ROOF INSULATION-CHILLERSCD-19ROOF INSULATION-DX ACSCD-26LIGHT COLORED ROOFS-CHILLERSCD-27LIGHT COLORED ROOFS-DX ACVD-1LEAK FREE DUCTS DX ACVD-4ASD VENTILATION CONTROL W/VAV-DX ACVD-5ASD VENTILATION CONTROL W/VAV-CHILLERSVD-6TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-DX ACVD-10SEPARATE MAKEUP AIR/EXHAUST HOODS-CHILLERSVD-11SEPARATE MAKEUP AIR/EXHAUST HOODS-DX ACVD-14DHW HEATER INSULATIONTECOCOMMERCIAL /INDUSTRIAL LOAD MANAGEMENTTECODX AC REPLACEMENT	SCD-9	SPEED CONTROL FOR COOLING TOWERS
SCD-16TEMPERATURE SETUP/SETBACK-CHILLERSCD-17TEMPERATURE SETUP/SETBACK-DX ACSCD-18ROOF INSULATION-CHILLERSCD-19ROOF INSULATION-DX ACSCD-26LIGHT COLORED ROOFS-CHILLERSCD-27LIGHT COLORED ROOFS-DX ACVD-1LEAK FREE DUCTS DX ACVD-4ASD VENTILATION CONTROL W/VAV-DX ACVD-5ASD VENTILATION CONTROL W/VAV-CHILLERSVD-6TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-DX ACVD-10SEPARATE MAKEUP AIR/EXHAUST HOODS-CHILLERSVD-11SEPARATE MAKEUP AIR/EXHAUST HOODS-DX ACWD-14DHW HEATER INSULATIONTECOCOMMERCIAL /INDUSTRIAL LOAD MANAGEMENTTECODX AC REPLACEMENT	SCD-12	HVAC AIR DUCT/WATER PIPE INSULATION-CHILLER
SCD-17TEMPERATURE SETUP/SETBACK-DX ACSCD-18ROOF INSULATION-CHILLERSCD-19ROOF INSULATION-DX ACSCD-26LIGHT COLORED ROOFS-CHILLERSCD-27LIGHT COLORED ROOFS-DX ACVD-1LEAK FREE DUCTS DX ACVD-4ASD VENTILATION CONTROL W/VAV-DX ACVD-5ASD VENTILATION CONTROL W/VAV-CHILLERSVD-6TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-DX ACVD-10SEPARATE MAKEUP AIR/EXHAUST HOODS-CHILLERSVD-11SEPARATE MAKEUP AIR/EXHAUST HOODS-DX ACWD-14DHW HEATER INSULATIONTECOCOMMERCIAL /INDUSTRIAL LOAD MANAGEMENTTECODX AC REPLACEMENT	SCD-13	HVAC AIR DUCT/WATER PIPE INSULATION-DX AC
SCD-18ROOF INSULATION-CHILLERSCD-19ROOF INSULATION-DX ACSCD-26LIGHT COLORED ROOFS-CHILLERSCD-27LIGHT COLORED ROOFS-DX ACVD-1LEAK FREE DUCTS DX ACVD-4ASD VENTILATION CONTROL W/VAV-DX ACVD-5ASD VENTILATION CONTROL W/VAV-CHILLERSVD-6TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-DX ACVD-10SEPARATE MAKEUP AIR/EXHAUST HOODS-CHILLERSVD-11SEPARATE MAKEUP AIR/EXHAUST HOODS-DX ACVD-14DHW HEATER INSULATIONTECOCOMMERCIAL /INDUSTRIAL LOAD MANAGEMENTTECODX AC REPLACEMENT	SCD-16	TEMPERATURE SETUP/SETBACK-CHILLER
SCD-19ROOF INSULATION-DX ACSCD-26LIGHT COLORED ROOFS-CHILLERSCD-27LIGHT COLORED ROOFS-DX ACVD-1LEAK FREE DUCTS DX ACVD-4ASD VENTILATION CONTROL W/VAV-DX ACVD-5ASD VENTILATION CONTROL W/VAV-CHILLERSVD-6TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-DX ACVD-10SEPARATE MAKEUP AIR/EXHAUST HOODS-CHILLERSVD-11SEPARATE MAKEUP AIR/EXHAUST HOODS-DX ACWD-14DHW HEATER INSULATIONTECOCOMMERCIAL /INDUSTRIAL LOAD MANAGEMENTTECODX AC REPLACEMENT	SCD-17	TEMPERATURE SETUP/SETBACK-DX AC
SCD-26LIGHT COLORED ROOFS-CHILLERSCD-27LIGHT COLORED ROOFS-DX ACVD-1LEAK FREE DUCTS DX ACVD-4ASD VENTILATION CONTROL W/VAV-DX ACVD-5ASD VENTILATION CONTROL W/VAV-CHILLERSVD-6TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-DX ACVD-10SEPARATE MAKEUP AIR/EXHAUST HOODS-CHILLERSVD-11SEPARATE MAKEUP AIR/EXHAUST HOODS-DX ACWD-14DHW HEATER INSULATIONTECOCOMMERCIAL /INDUSTRIAL LOAD MANAGEMENTTECODX AC REPLACEMENT	SCD-18	ROOF INSULATION-CHILLER
SCD-27LIGHT COLORED ROOFS-DX ACVD-1LEAK FREE DUCTS DX ACVD-4ASD VENTILATION CONTROL W/VAV-DX ACVD-5ASD VENTILATION CONTROL W/VAV-CHILLERSVD-6TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-DX ACVD-10SEPARATE MAKEUP AIR/EXHAUST HOODS-CHILLERSVD-11SEPARATE MAKEUP AIR/EXHAUST HOODS-DX ACWD-14DHW HEATER INSULATIONTECOCOMMERCIAL /INDUSTRIAL LOAD MANAGEMENTTECODX AC REPLACEMENT	SCD-19	ROOF INSULATION-DX AC
VD-1LEAK FREE DUCTS DX ACVD-4ASD VENTILATION CONTROL W/VAV-DX ACVD-5ASD VENTILATION CONTROL W/VAV-CHILLERSVD-6TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-DX ACVD-10SEPARATE MAKEUP AIR/EXHAUST HOODS-CHILLERSVD-11SEPARATE MAKEUP AIR/EXHAUST HOODS-DX ACWD-14DHW HEATER INSULATIONTECOCOMMERCIAL /INDUSTRIAL LOAD MANAGEMENTTECODX AC REPLACEMENT	SCD-26	LIGHT COLORED ROOFS-CHILLER
VD-4ASD VENTILATION CONTROL W/VAV-DX ACVD-5ASD VENTILATION CONTROL W/VAV-CHILLERSVD-6TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-DX ACVD-10SEPARATE MAKEUP AIR/EXHAUST HOODS-CHILLERSVD-11SEPARATE MAKEUP AIR/EXHAUST HOODS-DX ACWD-14DHW HEATER INSULATIONTECOCOMMERCIAL /INDUSTRIAL LOAD MANAGEMENTTECODX AC REPLACEMENT	SCD-27	
VD-5ASD VENTILATION CONTROL W/VAV-CHILLERSVD-6TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-DX ACVD-10SEPARATE MAKEUP AIR/EXHAUST HOODS-CHILLERSVD-11SEPARATE MAKEUP AIR/EXHAUST HOODS-DX ACWD-14DHW HEATER INSULATIONTECOCOMMERCIAL /INDUSTRIAL LOAD MANAGEMENTTECODX AC REPLACEMENT	VD-1	
VD-6TIME/PROGRAM VENTILATION CONTROL-CHILLERSVD-7TIME/PROGRAM VENTILATION CONTROL-DX ACVD-10SEPARATE MAKEUP AIR/EXHAUST HOODS-CHILLERSVD-11SEPARATE MAKEUP AIR/EXHAUST HOODS-DX ACWD-14DHW HEATER INSULATIONTECOCOMMERCIAL /INDUSTRIAL LOAD MANAGEMENTTECODX AC REPLACEMENT		
VD-7TIME/PROGRAM VENTILATION CONTROL-DX ACVD-10SEPARATE MAKEUP AIR/EXHAUST HOODS-CHILLERSVD-11SEPARATE MAKEUP AIR/EXHAUST HOODS-DX ACWD-14DHW HEATER INSULATIONTECOCOMMERCIAL /INDUSTRIAL LOAD MANAGEMENTTECODX AC REPLACEMENT		
VD-10SEPARATE MAKEUP AIR/EXHAUST HOODS-CHILLERSVD-11SEPARATE MAKEUP AIR/EXHAUST HOODS-DX ACWD-14DHW HEATER INSULATIONTECOCOMMERCIAL /INDUSTRIAL LOAD MANAGEMENTTECODX AC REPLACEMENT		
VD-11SEPARATE MAKEUP AIR/EXHAUST HOODS-DX ACWD-14DHW HEATER INSULATIONTECOCOMMERCIAL /INDUSTRIAL LOAD MANAGEMENTTECODX AC REPLACEMENT		
WD-14DHW HEATER INSULATIONTECOCOMMERCIAL /INDUSTRIAL LOAD MANAGEMENTTECODX AC REPLACEMENT		
TECOCOMMERCIAL /INDUSTRIAL LOAD MANAGEMENTTECODX AC REPLACEMENT		
TECO DX AC REPLACEMENT		
TECO STANDBY GENERATOR		
	IECO	STANDBY GENERATOR

RESIDENTIAL EXISTING CONSTRUCTION

FROM COMMISSION WORKSHOP - JANUARY 7, 1998

HIGH EFFICIENCY CLOTHES WASHER CW-1 BEST CURRENT FREEZER (FROST-FREE) FR-1 BEST CURRENT FREEZER (MANUAL) FR-2 REMOVE SECOND FREEZER FR-3 COMPACT FLUORESCENT LT-1 LT-2 EFFICIENT INCANDESCENT HIGH PRESSURE SODIUM (OUTDOOR) LT-3 HIGH EFFICIENCY POOL PUMP PP-1 PP-3 DLC OF POOL PUMPS RF-1 BEST CURRENT REFRIGERATOR (FROST-FREE) RF-2 BEST CURRENT REFRIGERATOR (MANUAL) RF-3 REMOVE SECOND REFRIGERATOR RSC-1 HIGH EFFICIENCY AIR SOURCE HEAT PUMP RSC-2 GROUND SOURCE HEAT PUMP RSC-3 TWO SPEED HEAT PUMP REDUCED DUCT LEAKAGE RSC-05A RSC-05B REDUCED DUCT LEAKAGE RSC-07A SETBACK/PROGRAMMABLE THERMOSTAT RSC-07B SETBACK/PROGRAMMABLE THERMOSTAT LOAD CONTROL FOR RESIDENTIAL ELECTRIC HEAT RSC-8A RSC-8B LOAD CONTROL FOR RESIDENTIAL ELECTRIC HEAT CEILING INSULATION (RO-R19) RSC-10A RSC-10B **CEILING INSULATION (RO-R19)** CEILING INSULATION (R11-R30) RSC-11A **CEILING INSULATION (R11-R30)** RSC-11B RSC-12A CEILING INSULATION (R19-R30) RSC-12B **CEILING INSULATION (R19-R30)** RSC-13A CEILING INSULATION (R30-R38) RSC-13B **CEILING INSULATION (R30-R38)** WEATHERSTRIP/CAULK W/BLOWER DOOR RSC-15A RSC-15B WEATHERSTRIP/CAULK W/BLOWER DOOR RSC-16A WINDOW FILM/REFLECTIVE GLASS RSC-16B WINDOW FILM/REFLECTIVE GLASS LOW EMISSIVTY GLASS RSC-17A RSC-17B LOW EMISSIVTY GLASS SHADE SCREENS RSC-18A RSC-18B SHADE SCREENS RSC-21A HIGH EFFICIENCY CENTRAL AC RSC-22A TWO SPEED CENTRAL AC RSC-24A **HIGH EFFICIENCY ROOM AC** RSC-25A AIR CONDITIONING/HEAT PUMP MAINTENANCE RSC-25B AIR CONDITIONING/HEAT PUMP MAINTENANCE RSC-26A DLC OF CENTRAL AC RSC-26B DLC OF CENTRAL AC WH-1 HIGH EFFICIENCY ELECTRIC RESISTANCE WATER HEATER WH-2 INTEGRAL HEAT PUMP WATER HEATER WH-3 SOLAR WATER HEATER WH-4 HEAT RECOVERY WATER HEATER (DESUPERHEATER) WH-5 ADD-ON HEAT PUMP WATER HEATER WH-6 DHW HEATER TANK INSULATION WH-7 DHW PIPE INSULATION WH-8 DHW HEAT TRAP WH-9 LOW FLOW SHOWERHEAD WH-10 DLC OF ELECTRIC WATER HEATER

ADDITIONAL RESIDENTIAL EXISTING CONSTRUCTION

LT-4	MOTION DETECTORS FOR OUTDOOR LIGHTING
RSC-19A	REFLECTIVE ROOF COATINGS
RSC-19B	REFLECTIVE ROOF COATINGS
RSC-23A	WHOLE HOUSE FANS
RSC-23B	WHOLE HOUSE FANS
RSC-29	RESIDENTIAL HIGH EFFICIENCY HEAT PUMP
TECO	CEILING INSULATION
TECO	DUCT REPAIR
TECO	HEATING AND COOLING SEER12
TECO	LOAD MANAGEMENT

COMMERCIAL EXISTING CONSTRUCTION

FROM COMMISSION WORKSHOP - JANUARY 7, 1998

CD-18 CD-19 LD-1 LD-2 LD-3	CONVECTION OVENS ENERGY EFFICIENT ELECTRIC FRYERS 4'-34W FLOUR LAMPS/HYBRID BALLASTS (#1) 4'-34W FLOUR LAMPS/HYBRID BALLASTS (#2) 4'-34W FLOUR LAMPS/ELECTRONIC BALLASTS (#1)
LD-4 LD-5	4'-34W FLOUR LAMPS/ELECTRONIC BALLASTS (#2) 8'-60W FLOUR LAMPS/ELECTRONIC BALLASTS (#1)
LD-6	8'-60W FLOUR LAMPS/ELECTRONIC BALLASTS (#2)
LD-7	T8 LAMPS/ELECTRONIC BALLASTS (#1)
LD-8	T8 LAMPS/ELECTRONIC BALLASTS (#2)
LD-9	REFL/DELAMP INSTALL 4'-40W FLOÙR LAMPS/EE BALLAST
LD-10	REFL/DELAMP INSTALL 4'-34&40W FLOUR LAMPS/EE BALLAST
LD-11	REFL/DELAMP INSTALL 8'-75W FLOUR LAMPS/EE BALLAST
LD-12	REFL/DELAMP INSTALL 8'-60W FLOUR LAMPS/EE BALLAST
LD-13	REFL/DELAMP INSTALL 4'-34&40W FLOUR LAMPS/HYBD BALL
LD-14	REFL/DELAMP INSTALL 4'-34&40W FLOUR LAMPS/HYBD BALL
LD-15	REFL/DELAMP INSTALL 4'-34&40W FLOUR LAMPS/ELEC BALL
LD-16	REFL/DELAMP INSTALL 4'-34&40W FLOUR LAMPS/ELEC BALL
LD-17	REFL/DELAMP INSTALL 8'-60W FLOUR LAMPS/ELEC BALL
LD-18	REFL/DELAMP INSTALL 8'-60W FLOUR LAMPS/ELEC BALL
LD-19	4'X34W FLOUR LAMPS/DIMMING BALLAST(#1)
LD-20	4'X34W FLOUR LAMPS/DIMMING BALLAST(#2)
LD-21	HIGH PRESSURE SODIUM (70/100/150/250W)
LD-22	HIGH PRESSURE SODIUM (70/100/150/250W -W/ES BALLAST)
LD-23	HIGH PRESSURE SODIUM (35W)
LD-24	METAL HALIDE (32W)
LD-25	COMPACT FLOURESCENT LAMPS (15/18/27W)
LD-26	TWO LAMP COMPACT FLOURESCENT (18W)
RD-1	MULTIPLEX AIR-COOLED/NO SUBCOOLING
RD-2	MULTIPLEX AIR-COOLED/AMBIENT SUBCOOLING
RD-3	MULTIPLEX AIR-COOLED/MECHANICAL SUBCOOLING
RD-4	MULTIPLEX AIR-COOLED/AMBIENT & MECHANICAL SUBCOOL
RD-5	MULTIPLEX AIR-COOLED/EXTERNAL LIQUID SUCTION HX
RD-6 RD-7	OPEN DRIVE REFRIGERATION SYSTEM (ASD) ANTI-CONDENSATE HEATER CONTROLS
RD-7 RD-8	HIGH R-VALUE GLASS DOORS
RD-9	REFRIGERATION ENERGY MANAGEMENT SYSTEM (EMS)
SCD-1	HIGH EFFICIENCY CHILLER
SCD-2	HIGH EFFICIENCY CHILLER W/ASD
SCD-3	HIGH EFFICIENCY DX AC
SCD-4	HIGH EFFICIENCY ROOM AC UNITS
SCD-5	COOL STORAGE 4

TAMPA ELECTRIC COMPANY DOCKET NO. 992014-EI WITNESS: HOWARD T. BRYANT EXHIBIT NO. _____ (HTB-1) DOCUMENT NO. 1

COMMERCIAL EXISTING CONSTRUCTION

FROM COMMISSION WORKSHOP - JANUARY 7, 1998 (CONT.)

SCD-8	2-SPEED MOTOR FOR COOLING TOWER
SCD-9	SPEED CONTROL FOR COOLING TOWER
SCD-10	A/C MAINTENANCE-CHILLER
SCD-11	A/C MAINTENANCE-DX AC
SCD-12	HVAC AIR DUCT/WATER PIPE INSULATION-CHILLER
SCD-13	HVAC AIR DUCT/WATER PIPE INSULATION-DX AC
SCD-18	ROOF INSULATION-CHILLER
SCD-19	ROOF INSULATION-DX AC
SCD-22	WINDOW FILM-CHILLER
SCD-23	WINDOW FILM-DX AC
VD-1	LEAK FREE DUCTS DX AC
VD-8	HIGH EFFICIENCY MOTORS-CHILLERS
VD-9	HIGH EFFICIENCY MOTORS-DX AC
VD-10	SEPARATE MAKEUP AIR/EXHAUST HOODS-CHILLERS
VD-11	SEPARATE MAKEUP AIR/EXHAUST HOODS-DX AC
1A/D 44	

- WD-11 HEAT PUMP WATER HEATER
- WD-12 SOLAR WATER HEATER
- WD-13 HEAT RECOVERY WATER HEATER
- WD-14 DHW HEATER INSULATION
- WD-15 DHW HEAT TRAP
- WD-16 LOW FLOW VARIABLE FLOW SHOWERHEAD
- WD-17 DWH RECIRCULATION PUMPS

ADDITIONAL COMMERCIAL EXISTING CONSTRUCTION

- LD-27 ENERGY MANAGEMENT SYSTEM FOR LIGHTING
- LD-28 OCCUPANCY SENSORS
- RD-10 DUAL PATH AIR CONDITIONING
- SCD-6 HEAT PIPE ENHANCED DX AC
- SCD-16 TEMPERATURE SETUP/SETBACK-CHILLER
- SCD-17 TEMPERATURE SETUP/SETBACK-DX AC
- SCD-26 LIGHT COLORED ROOFS-CHILLER
- SCD-27 LIGHT COLORED ROOFS-DX AC
- VD-3 VAV SYSTEMS W/INLET VANES-DX AC
- VD-4 ASD VENTILATION CONTROL W/VAV-DX AC
- VD-5 ASD VENTILATION CONTROL W/VAV-CHILLERS
- VD-6 TIME/PROGRAM VENTILATION CONTROL-CHILLERS
- VD-7 TIME/PROGRAM VENTILATION CONTROL-DX AC
- TECO COMMERCIAL /INDUSTRIAL LOAD MANAGEMENT
- TECO COMMERCIAL /INDUSTRIAL INDOOR LIGHTING
- TECO DX AC REPLACEMENT
- TECO STANDBY GENERATOR

CUE MEASURES EVALUATED

RESIDENTIAL

TAMPA ELECTRIC COMPANY DOCKET NO. 992014-EI WITNESS: HOWARD T. BRYANT EXHIBIT NO. _____ (HTB-1) DOCUMENT NO. 1

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PP-1	HIGH EFFICIENCY POOL PUMP	
PP-2	DOWN-SIZED POOL PUMPS W/OVERSIZED PLUMBING	
RSC-06A	REDUCED DUCT HEAT TRANSFER - NEW CONSTRUCTION	
RSC-06B	REDUCED DUCT HEAT TRANSFER - NEW CONSTRUCTION	
RSC-09A	CEILING INSULATION - NEW CONSTRUCTION	
RSC-09B	CEILING INSULATION - NEW CONSTRUCTION	
RSC-28A	CEILING FANS	
RSC-28B	CEILING FANS	

COMMERCIAL

LD-3	MOTION DETECTORS FOR OUTDOOR LIGHTING
RD-1	MULTIPLEX AIR-COOLED/NO SUBCOOLING
RD-2	MULTIPLEX AIR-COOLED/AMBIENT SUBCOOLING
RD-3	MULTIPLEX AIR-COOLED/MECHANICAL SUBCOOLING
RD-4	MULTIPLEX AIR-COOLED/AMBIENT & MECHANICAL SUBCOOL
RD-5	MULTIPLEX AIR-COOLED/EXTERNAL LIQUID SUCTION HX
RD-6	OPEN DRIVE REFRIGERATION SYSTEM (ASD)
RD-7	ANTI-CONDENSATE HEATER CONTROLS
RD-8	HIGH R-VALUE GLASS DOORS
RD-9	REFRIGERATION ENERGY MANAGEMENT SYSTEM (EMS)
SCD-18	ROOF INSULATION-CHILLER
SCD-19	ROOF INSULATION-DX AC
SCD-20	WALL INSULATION-CHILLER
SCD-21	WALL INSULATION-DX AC
SCD-22	WINDOW FILM-CHILLER
SCD-23	WINDOW FILM-DX AC
SCD-24	SPECIALLY SELECTIVE WINDOWS-CHILLERS
SCD-25	SPECIALLY SELECTIVE WINDOWS-DX AC
SCD-8	2-SPEED MOTOR FOR COOLING TOWER
SCD-9	SPEED CONTROL FOR COOLING TOWERS

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