



Fiscal Year 2010 - 2011

Annual Report

for the



Table of Contents

	<u>Page</u>
<u>Executive Summary</u>	1
<u>Plant Performance</u>	5
<u>Environmental, Health and Safety</u>	9
<u>System Assessment and Status</u>	12
<u>Outstanding Issues and Recommendations</u>	38
<u>Sales and Marketing</u>	39
<u>Utilities and Fuel Procurement</u>	40
<u>Financial Report</u>	43
Appendix 1 – Customer List	
Appendix 2 – Revenues	
Appendix 3 – Customer Rate Reconciliation	
Appendix 4 – CEPS Invoice Reconciliation (FEA)	
Exhibit 1 – Performance Guarantee Calculations	



Executive Summary

In May of 2011, the legal entity Constellation Energy Projects & Services Group, Inc. (CEPS) was formally merged with and into Constellation NewEnergy, Inc. (CNE). This was done due to an internal, company reorganization and did not change any existing contracts or legal documents. The services previously provided by CEPS are now being provided by the same Constellation Energy personnel under the entity Constellation NewEnergy, Inc.

With that being explained, Constellation NewEnergy, Inc., operator of the Nashville District Energy System (DES) is pleased to present their eighth “*Annual Report*” to the Metropolitan Government of Nashville and Davidson County, Tennessee. This report summarizes activities related to environmental, health and safety issues, sales and marketing activities, customer service, fuel procurement, finance and the overall system performance for the past twelve months. The system is made up of two basic parts, the Energy Generation Facility (EGF) and the Energy Distribution System (EDS).

Excellent operation of the EGF by an outstanding work force resulted in steam and chilled water availability and reliability both being above 99% again this year. This included scheduled outages and minor upsets so short in duration they are not required to be reported. CNE contractual efficiency guarantees also continue to be met. Efficient operations benefit everyone through utility and energy savings.

During the fiscal year July 1, 2010 through June 30, 2011, CNE continued to have a perfect environmental record with no excursions or violations. All verification data, records, reporting requirements and submittals were kept up to date and in order.

CNE’s goal is to work accident free. Unfortunately, plant personnel did experience two minor, yet reportable, accidents during the past twelve months. One of our mechanics had a large pipe fitting fall on his foot while loading it on to our EDS service truck. Luckily, his foot was only bruised. The second incident occurred when one of our technicians slipped while loading a portable sump pump on the ice covered flat bed of the service truck. He fell over the side and injured his ankle and thumb when he hit the ground. Neither accident resulted in lost time. New procedures have been implemented to prevent these type accidents from taking place in the future.

CNE and Fellon-McCord, our natural gas consultant, continue to work closely with Metro’s fuel procurement team to purchase gas through a hedging program. Natural gas was purchased at a price less than budgeted. Due to the discovery of shale gas, prices continue to be relatively low compared to recent years. This price decrease has resulted in a substantial savings to the DES steam customers.

At the request of DES, the Sales and Marketing Plan was reinstated. The Country Music Hall of Fame and the Omni Hotel were pursued as potential new customers in conjunction



Constellation Energy

with the new Music City Convention Center (MCCC). A Medical Mart is slated to be erected and occupy the old Nashville Convention Center space when the MCCC is completed if anchor tenants can be secured. Negotiations are on-going with the Medical Mart representatives.

Numerous DES projects were completed in the EGF and EDS again this year. Some were safety related, some were to improve customer services and several were flood related. I am pleased to announce the all of our flood related projects have been completed and we are back to normal operations. Our main focus is now on projects associated with adding the new Music City Convention Center to the district energy system. These include piping and manhole installations, metering and pump modifications.

Along with their routine customer service responsibilities, CNE personnel assisted several DES customers with their flood recovery endeavors. For instance, the Schermerhorn Symphony building underwent a very extensive rehabilitation. DES chilled water was supplied to portable air handling units spaced around the exterior perimeter of their facility during the dehumidification and renovation process. CNE personnel helped coordinate and facilitate this effort. Their renovations have been completed and they have now re-opened for business.

Last year's report focused on the historic flood in downtown Nashville and the associated recovery efforts. This year seemed uneventful in comparison. I would still like to congratulate everyone from Metro and CNE on another outstanding year. I look forward to continued communications, cooperation and success as we move forward.

Sincerely,

James T. "Tim" Hestle
General Manager



Monthly Operations Report Summary

Constellation NewEnergy, Inc. (CNE) submits a written report to the Metro Nashville District Energy System (DES) team on or about the 10th day of each month to convey the operational activities of the prior month. The first item included in each report is the executive summary. This section gives an overview of the entire report, addresses news, events, and other business activities. The next section is Operations, which includes plant reliability and efficiency data, environmental, health & safety, accidents, personnel, and employee training. The third section of the report lists and discusses all Maintenance activities in and around the Energy Generation Facility (EGF). Items covered in this section include the building and grounds, warranty issues, preventive and predictive maintenance and construction projects. The final section of these reports is about the Energy Distribution System (EDS). Items discussed in this section are customers, sales and marketing, system maintenance and repairs, and distribution system projects.

Operations Summary

The EGF continued to furnish reliable steam and chilled water service to the DES customers over the past twelve months. There were no scheduled chilled water to or steam outages. We did, however, have a few unscheduled outages caused by uncontrollable circumstances. With the exception of these upsets, service has been uninterrupted.

The DES customers are communicated with on a routine basis. Any issues they might have are dealt with courteously and expeditiously. All customers have been very supportive, understanding and are reported to be satisfied with the services we are providing.

The plant is fully staffed with an outstanding work force. There were two reportable and zero lost time accidents for the year. Training classes were routinely conducted in conjunction with the monthly Safety Meetings. Employees also received training related to plant systems and equipment.

Maintenance activities were performed as scheduled in the EGF and in the EDS. A great deal of planning and coordination go into the project work both in the plant and in the distribution system. Contractors continue to work to complete the open DES projects.

For the eighth consecutive year, there were no environmental excursions or violations.

News, Events & Other Business

July 17, 2010, CNE hosted their Seventh Annual Nashville District Energy System Golf Outing and luncheon. This event attended by DES customers, employees, contractors, vendors and friends; promoted customer relations, employee morale and was a tremendous success.



In the month of September 2010, CNE Managers attended a Building Owners and Managers Association meeting and Association of Energy Engineers meeting.

During the month of October 2010, students from Miller-Motte Technical College toured the EGF and CNE Managers attended the Nashville Downtown Partnership Awards Luncheon held in the Renaissance Hotel Grand Ball Room.

The semi-annual MNDES e-Newsletter was issued November 17, 2010.

During December 2010, a meeting was held with the Metro Development and Housing Authority (MDHA) to discuss the impact of development activities taking place behind the plant on the EGF. Other events included the Annual CNE Employee Christmas luncheon.

During the month of January 2011, plant tours were given to representatives of Mechanical Resources Group, Chem-Aqua and Systecon.

During the month of March 2011, it was announced that Constellation Energy Projects and Services Group, Inc. (CEPS) would merge in to Constellation New Energy, Inc. (CNE). CEPS would become the fulfillment team in the CNE organization. Effective April 11, 2011, CEPS will cease to exist. Going forward, all sub groups, including CNE will operate under the Constellation Energy logo only.

CNE co-sponsored and participated in the Tennessee One-Call Annual Meeting, held on April 12, 2011, in Mt. Juliet, TN.

As usual, teleconferences were held on Friday mornings to discuss Natural Gas purchases and Monthly CNE/DES operations meetings were held on the third Wednesday of each month. The Metro DES Advisory Board met quarterly on the third Thursday of August, November, February and May in the EGF conference room. Two DES E-newsletters were published, one in the fall and another in the spring.



Plant Performance

Facility Operations

Plant Reliability

The EGF continued to provide reliable service to the DES customers. The following items describe minor incidents, short in duration, when the EGF experienced an excursion outside parameters of the performance guarantees. With the exception of uncontrollable circumstances and/or two allowable twelve-hour outages per year, the guarantees are to maintain 150 psig of export steam pressure leaving the EGF and to deliver 43.3 degree chilled water to each customer.

- After the May 2010 flood, an expansion joint in Manhole L was discovered to be malfunctioning. The steam system was operated at 125 psi until the joint could be replaced in July.

The first steam pressure dip occurred on July 5, 2010. The bonnet gasket on the steam isolation valve to the Symphony, located in Manhole B, started leaking. This caused the system pressure to drop and a plume to be emitted from the manhole. Maintenance Technicians were called in to investigate the problem. In order to safely enter the manhole, the system pressure had to be lowered to zero. This process began at 3:00 p.m. and took approximately 3 1/2 hours. The bonnet gasket bolts were tightened to slow the leak down to a manageable condition. The boilers were re-started and the system was back to normal pressure at 7:57 p.m. A replacement valve was ordered and installed on July 22, 2010 during the scheduled repairs in Manhole L.

The second pressure drop occurred on July 20, 2010 while attempting to start up a portable temporary boiler. The system pressure was lowered to approximately 70 psi to match the temporary boiler. Due to a control issue with the temporary boiler, the changeover had to be delayed until the following day. System pressure was restored to normal by 11:42 p.m. using the EGF Boilers.

The third occurrence is the scheduled outage between the plant and Manhole 18. Steam had to be isolated to this section of piping to make the necessary repairs in Manhole L and Manhole B due to flood damage. The graphs show we were below normal operating pressures from 3:12 p.m. on July 21, 2010 until 12:27 a.m. on July 25, 2010; however, a temporary boiler installed at Manhole 22, provided steam to all MNDES customers except the Wildhorse Saloon and Ryman Auditorium while these repairs were made.



- There were three instances where the steam pressure dropped below 150 psi during the month of December. Two were mechanical failures and one was a fuel supply issue.

The first occurred on December 8, 2010 at 2:44 p.m. and lasted 30 minutes. This was caused by the loss of a flame scanner on # 1 Boiler. The pressure dropped to 141 psi.

The second occurred on December 9, 2010 at 8:59 a.m. and lasted 45 minutes. This was caused by a blown fuse in the # 2 Boiler control cabinet. The pressure dropped to 135 psi.

The third incident happened on December 14, 2010 at 1:29 p.m. All three of the Boilers that were on line tripped off in sequence. CNE personnel checked for possible causes, but found no internal reasons. After contacting our natural gas supplier, we were informed that a gas line had been damaged as the result of an auto accident. Gas supplies had to be re-routed causing a momentary loss of pressure on the gas system, which in turn caused the boilers to shut down. The boilers were restarted. The steam system was below 150 psi for one hour reaching a low of 66 psi at 1:59 p.m.

- There was one instance where the steam pressure dropped below 150 psi during the month of January for a period of approximately 30 minutes.

On January 30, 2011 at 6:47 a.m., while performing a boiler blow down, the boiler tripped due to operator error. The boiler was restarted and was back to normal operating pressure 30 minutes later.

- The chilled water supply temperature went above 43.3°F on two occasions during the month of March. Each occurred while placing a chiller on line. The first happened on March 4, 2011 and lasted for 32 minutes. The second occurred on March 14, 2011 and lasted 16 minutes.
- There were two reportable chilled water supply temperature excursions in April.

The first occurred on April 21, 2011. A chiller tripped due to the failure of a pneumatic operator. The chilled water temperature spiked at 44.8° F and was above 43.3° F for 32 minutes.

The second occurred on April 27, 2011 and was the result of switching chillers to perform annual infrared and vibration testing. The chilled water temperature spiked at 44.2° F and was also above the reportable temperature of 43.3° F for 32 minutes.



- There were two reportable steam pressure excursions and one on the chilled water supply infraction in May 2011.

The first incident occurred on May 4, 2011. A boiler tripped due to the failure of a feedwater control valve. The steam pressure dropped to 117 psi and another boiler was started. The pressure was below 150 psi for 45 minutes.

The second occurred on May 19, 2011 and was the result of the # 1 Deaerator control valve not operating properly. The steam pressure was below 150 psi for 45 minutes.

The chilled water incident on May 25, 2011 was due to an electrical maintenance issue on Transformer 4A. While resetting the tie breaker, power was lost to the chilled water pumps momentarily causing the chillers to trip offline. The chillers were immediately re-started, but the chilled water supply temperature climbed above 43.3°F for just over 30 minutes.

Constellation Energy is not required to report any upset that lasts less than thirty minutes. The following availability percentages include every minute the plant was outside the contractual service delivery parameters; not necessarily down. Reliability does not include the scheduled outages allowed per the ARMA.

	Downtime		Availability	Reliability
	Scheduled	Unscheduled		
Boilers	0 minutes	465 minutes	99.91%	99.91%
Chillers	0 minutes	142 minutes	99.97%	99.97%



Plant Efficiency

As usual, following the annual boiler inspections at the end of July 2010, two boilers were placed in wet lay-up, one in stand-by, and one de-aerator tank was isolated due to the reduced steam demand during the summer months. One boiler and one de-aerator were left on line. This equipment is rotated monthly. This is done to increase steam efficiency during the cooling season. Stand-by boilers are taken out of wet lay-up and the second DA Tank was put back in service during the month of November in preparation for the heating season.

Constellation submitted the final version of the Metro DES annual reconciliation for Fiscal Year 2010 - 2011 on October 7, 2011. The annual reconciliation for this time period consisted primarily of a true-up for chemicals. For reference, the annual reconciliation is included in Appendix 4 of this report. Unfortunately, it was discovered there were a number of Metro incremental costs that were not posted or were posted inaccurately over the past 3 years. A delay in issuing the customer true-up occurred while Metro decided how to correct this error.

Constellation Energy’s efficiency guarantees consist of five key conversion rates:

1. Electric-to-Steam (kWh per klb-sold)
2. Fuel-to-Steam (Dekatherm per klb-send-out)
3. Water-to-Steam (gallons)
4. Electric-to-Chilled Water (kWh per ton-hr-sold)
5. Water-to-Chilled Water (gallon per ton-hr-sold)

The table below represents the efficiency guarantees from July 1, 2010 through June 30, 2011:

	Units of Measure	Contractual Guarantee	Actual Rate
1. Electricity-to-Steam	kWh per klb	6.000	3.167
2. Fuel-to-Steam	Dth per klb	1.702	1.384
3. Water-to-Steam	Gallons	13,968,792	12,646,301
4. Electricity-to-Chilled Water	kWh per ton-hr	1.055	0.848
5. Water-to-Chilled Water	Gallons per ton-hr	5.250	1.791



Environmental, Health and Safety

Environmental

There have been no environmental violations since the plant began operations on December 16, 2003.

Per the facility's Storm Water Pollution Prevention Plan (SWPPP), samples are collected, inspections are conducted and a report is generated quarterly. Refresher training is also conducted annually.

Regulatory Compliance

Required reporting activities were submitted as follows:

- The new Spill Prevention Controls and Countermeasures Plan (SPCC) was developed prior to November 1, 2010, as required by Title 40 CFR Part 112 of the U. S. Environmental Protection Agency.
- CNE completed the required Green House Gas Reporting Registration with the EPA prior to January 31, 2011.
- In January 2011, CNE received written confirmation from Metro Water Services that a Waste Water Permit is not required for the EGF.
- The Semi-annual Monitoring Report was submitted on January 28, 2011.
- Title V Annual Emissions Compliance Certifications was completed and submitted on February 4, 2011. The annual compliance certification consists of a detailed account of the compliance status for each permit condition.
- The Annual Air Emission Inventory Report was submitted to the Metro Health Department on February 25, 2011 along with the Annual Emission Fees.
- The Annual Tier II report was sent to the Nashville Fire Department, TEMA and the Davidson County Office of Emergency Management on February 11, 2011.



Health

CNE plant personnel continue to conduct themselves in a safe manner; however, two reportable accidents did occur during the FY 2010-11.

- A Maintenance Mechanic injured his foot while picking up fittings from one of our pipe suppliers. An 8 inch, butt weld, elbow fell off a pallet and landed on his foot. He was sent to Concentra, our local industrial health care provider, for x-rays. The x-rays did not indicate any bones were broken, so he was sent back to work with a sore foot and minor limitations. He was released for full duty two days later. There was no lost time related to this accident.
- An Instrumentation Technician, slipped and fell as he stepped from the loading dock to the ice covered flat bed of the service truck, while loading a repaired portable sump pump. He injured his left thumb and sprained his ankle. Following a doctor visit, the employee returned to work. This was not a lost time accident.

Safety

Monthly safety meetings were coordinated and scheduled by the CEPS Operations Manager/Safety Officer. Training classes are conducted in conjunction with each safety meeting. Safety and accident reports are issued and posted each month.

The refrigerant alarm, escape devices and gas monitors are checked weekly. Preventative maintenance and calibrations are performed monthly on the portable gas monitors used in the EDS. Fire extinguishers are also checked monthly.

Due to changes in the OSHA standards regarding the electrical code and arc flash hazards, our "hot stick" and "High Voltage Glove Kits" were sent out for inspection and recertification.



Accident Report
7/1/2011

FY 2010

FY 2011

	Total <u>Accidents</u>	OSHA <u>Reportable</u>	Lost Time <u>Accidents</u>	Total Lost <u>Days</u>		Total <u>Accidents</u>	OSHA <u>Reportable</u>	Lost Time <u>Accidents</u>	Total Lost <u>Days</u>
January	0	0	0	0		0	0	0	0
February	0	0	0	0		1	1	0	0
March	0	0	0	0		0	0	0	0
April	0	0	0	0		0	0	0	0
May	0	0	0	0		0	0	0	0
June	0	0	0	0		0	0	0	0
July	1	1	0	0					
August	0	0	0	0					
September	0	0	0	0					
October	0	0	0	0					
November	0	0	0	0					
December	0	0	0	0					
Total						2	2	0	0



System Assessment and Status

Personnel

The plant is fully staffed with an exceptional work force. CNE prides itself on keeping employees engaged which results in a very low turnover rate. Due to one employee transferring to another CNE facility and another leaving, CNE personnel were reorganized at the EGF and two new employees were hired. The new hires have experience with the DES as they were both former Nashville Thermal Transfer employees.

Training

In order to maintain and operate the facility safely, reliably and efficiently a significant amount of employee training is required. The following demonstrates some of the training that was conducted throughout the year:

- Corporate ***Environmental, Health and Safety*** (EHS) training was held for all CNE-NDE employees on July 14 and 16, 2010.
- General Manager completed a ***Talent Acquisition Management*** class presented by the CNE HR Department. This included training on the use of new software to be utilized during the hiring process.
- CNE's Operations Supervisor and Maintenance Supervisor attended a ***Water Treatment Seminar*** sponsored by Chemtreat, Inc. on September 16, 2010.
- All CNE - NDE employees completed an annual corporate training program on ***Principles of Business Integrity***.
- CNE's Administrative Operations Manager attended an ***Internal Controls & Risk Management Seminar*** January 18, 2011.
- Two CNE I & E Technicians attended a ***Medium Voltage Transformer Seminar*** held at Lipscomb University on January 19, 2011.

Our training program is on-going year after year. Training classes are also conducted in conjunction with our monthly safety meetings. These included:

- Annual Fire Extinguisher Training (conducted by the Metro Fire Department)
- Hazardous Communications & Blood borne Pathogens



- AED, Adult First Aid and Adult CPR Training and Annual Certification (conducted by the American Red Cross)
- Confined Space Entry
- Storm Water Pollution Prevention Plan Annual Certification (SWPPP) & Spill Prevention Controls and Countermeasures (SPCC) (conducted by the RMT Environmental Consultants)
- Slips, Trips, & Falls
- Lock Out/Tag Out
- Emergency Preparedness, Recovery and Contingency
- Workplace Violence, Harassment and Safety
- Heat Stress
- MSDS & Chemical Safety
- Personal Protective Equipment – Eye Safety, Hearing Protection, etc.

All classes, unless otherwise specified, were conducted by Hazmat Training, our safety consultant.



Customer Service

CNE personnel routinely communicate with the customers each month through phone calls, e-mails or visits. When customers have heating or cooling issues inside their buildings, we assist them with trouble-shooting and attempt to resolve their problems. When a service interruption is required, whether it is project related or an emergency, activities are coordinated closely with the customers to keep the impact to a minimum.

Due to the lack of participation, Metro has scaled back the DES customers meetings from semi-annual to annual intervals. These meetings, which take place in the Downtown Partnership conference room, are held to discuss the state of the EDS, upcoming projects, fuel costs and any other issues the customer representatives may have. This past year's meeting took place March 17, 2011.

DES customers are routinely invited to participate in the CNE/Nashville District Energy System Annual Golf Tournament, attend Titans football games or meet for breakfast or lunch. These relationships help further a positive image of the DES in the community and promote existing building owners to assist us in our sales efforts.

CNE's Customer Service Representative reviews each customers meter readings monthly. For those who do not meet their contractual chilled water return temperature requirements, a Thermal-Inefficiency-Fuel-Surcharge (TIFS) penalty is assessed. TIFS are added directly to customer invoices.

When a customer habitually exceeds their contractual demand capacity, the meter data is sent to the DES Contract Administrator for review and evaluation. If a capacity adjustment is deemed appropriate, CNE assists by setting up a meeting with the customer. During these meetings an explanation of the adjustment is discussed. The reason for the excursion is investigated and suggestions are made to keep it from reoccurring.

Facility and Equipment Maintenance

The EGF has operated reliably and efficiently for the past year. During the course of normal operation, preventative, predictive and routine maintenance items must be scheduled and completed. During the summer months the lawn is mowed weekly and landscaping is manicured routinely. The building and grounds are policed and the lighting is maintained year round. The office area carpets are shampooed and the tile floors are stripped and waxed annually. During the past year, the parking lot was resealed and striped.



Preventive and Predictive Maintenance

The following items were accomplished to increase equipment life, reliability, efficiency and safety: CEPS personnel perform daily equipment inspections, check bearing temperatures, oil levels, belt tensions, etc. In addition, preventative maintenance is performed on the following equipment monthly: HVAC units, cooling towers cell, condenser water pumps, chilled water pumps, boiler feed water pumps, condensate pumps, motors, instrument air compressors and driers. The roof surface is inspected and cleaned. The propane system is also test fired and leak checked monthly.

Annual pressure vessel inspections are scheduled to be completed during the cooling season. The inspections are conducted by Arise Incorporated. They are State Certified Boiler Inspectors, working as a subcontractor to our insurance carrier. These inspections are required in order to renew our operating permits. Boiler inspections consist of a visual examination of the mud drum, steam drum, economizer, tubes and fire box. #1 and #3 boilers and #2 de-aerator tanks were inspected in June. All inspected units, thus far, have received a passing grade and their respective permits were renewed. #2 and #4 boilers are scheduled to be inspected in July. Inspections were witnessed by our chemical vendor's representative and plant personnel. When units are off line for inspection, preventative maintenance is performed on the forced draft fans, low water cut out switches and other associated equipment.

Annual chiller inspections, although not required, are scheduled and executed during the heating season as a good maintenance practice. These inspections include opening the condensers and cleaning the tubes, performing vibration analysis and taking oil sample analysis on each chiller. Eddy Current testing was conducted on Chillers 1, 2 and 5. Controls and purge units are also checked for proper operation.

As part of the Preventive and Predictive maintenance program CNE had a contractor take alignment and vibration readings on all pumps, fans and motors. These readings are compared to the previous year's readings. All readings were within the normal range; however, the following equipment readings changed slightly and were recommended for additional monitoring: #5A Chiller and #2 Condensate Pump.

The high-voltage switch gear preventive maintenance was scheduled and executed during the fall. Inspections and testing included: transformers, vacuum breakers, relays, load break switches, infrared inspections and oil sample analysis.



Repairs and Replacements

From time to time emergency repairs and replacements must be made. The following are examples of the routine maintenance and emergency repairs that have been performed in the EGF in FY 10-11:

July 2010

- Rebuilt #4 Boiler mud drum blowdown valve
- Repaired #4 Boiler steam blanket piping inside mud drum
- Rebuilt #2 Boiler mud drum blowdown valve
- Replaced #3 Boiler blowdown valve sightglass
- Replace water heater discharge hose
- Replace faucet in breakroom

August 2010

- Installed Strainer prior to Cooling Tower Blowdown Meter
- Installed solenoid valve and coil on #7 Chiller Purge unit
- Installed safety gates on a Cooling Tower level access ladders
- Installed safety guard on shop drill press
- Repaired air line to #2 Chiller evaporator inlet valve
- Repaired cooling tower level controller

September 2010

- Installed a safety gate on the ship's ladder from boiler level to chemical treatment mezzanine level
- Installed safety gates on a Cooling Tower access ladders
- Installed sink in Maintenance Shop
- Repaired grease line to #14 Cooling Tower Fan Bearing
- Repaired #1 Deaerator vent line
- Replaced ballasts in two East Side Outdoor Building Lights
- Calibrated #2 Boiler Oxygen Analyzer
- Mowed lawn weekly

October 2010

- Repaired and replaced sightglass on main condensate receiver tank
- Replaced packing on #3 CHWP
- Repaired #1 Deaerator water box
- Repaired pump bearing oiler on #2 CWP
- Mowed lawn weekly
- Sealed and striped parking lot



November 2010

- Repaired leak on #3 Boiler, low water cut out, gauge glass blow down header
- Replaced belt on #17 Cooling Tower Fan
- Replaced bearings on #5 CWP Motor
- Replaced bearings on #5 BFWP Motor
- Repacked #1 CHWP
- Replaced Flash Tank sight glass

December 2010

- Repaired leak on Propane system valve actuator.
- Replaced solenoid valve on Instrument Air Compressor blowdown
- Replaced mechanical seal on in house condensate pump
- Repaired #2 Boiler low water cutout (found bad microswitch)
- Repaired #3 Boiler mud drum blowdown valve
- Removed #2 Expansion Tank bladder and check for leaks
- Replaced #8 Chiller Chilled Water Inlet temperature sensor

January 2011

- Repaired refrigerant leaks #7A Chiller
- Repaired steam trap on #4 Boiler
- Installed bladder in #2 Expansion Tank after repairs were made
- Replaced inlet chilled water temperature sensor on #8 Chiller
- Replaced indicator lights in Control Cabinet for Cooling Tower Basin Heaters
- Replaced Regulator on #2 Cooling Tower Inlet Valve Actuator

February 2011

- Repaired #2 Boiler Continuous Blowdown Bypass Valve
- Repaired leaks on #1 and #2 Boiler Blowdown Headers
- Installed valve on CL 4125 chemical line injection point
- Replaced #2 Boiler sight glass
- Replaced valve on CL 49 Chemical line
- Replaced #4 Chiller inlet thermometer
- Replaced Emergency Light fixture (EM-24)

March 2011

- Repaired leak on #2 Boiler Steam Stop Valve
- Repaired leak on #3 Condensate Pump discharge valve
- Installed automatic blowdown valve on Service Air Compressor receiver tank
- Replaced Belt on #16 Cooling Tower
- Replaced bearings and oil seals on #5 BFWP
- Performed vibration test on #7 Cooling Tower making noise

April 2011

- Rebuilt actuated valve on Propane System
- Replaced pivot bearing on #2 Boiler Blowdown Valve
- Replaced damaged fill in #1 Cooling Tower
- Replaced belt on #18 Cooling Tower
- Repaired leak on CL 49 chemical discharge line
- Replaced packing on #5 CHWP
- Replaced control solenoid on #2 Softener
- Replaced filters on Refrigerant Monitoring System
- Landscaping
 - Trimmed trees and shrubs
 - Installed pine straw in beds
 - Restored service to sprinkler system following winter

May 2011

- Repaired leak on Flash Tank sight glass
- Replaced bearings on #1 BFWP Motor
- Installed new blowdown header on #1 Boiler
- Replaced screw assembly on #1 Boiler Mud drum blowdown valve
- Repaired bottom valve and cleaned sight glass on #1 DA Tank sight glass
- Repaired repeater on Tunnel Communication System
- Repaired electrical cables and contactor on JLG lift

June 2011

- Cleaned tower suction strainers and balance boxes periodically during month due to cicada infestation
- Replaced blowdown headers on # 2, #3 and #4 Boilers
- Replaced sight glass on #3 Boiler
- Cleaned strainer on Cooling Tower blowdown line
- Mowed lawn weekly
- Repacked #2, #3, #4 and #6 Chilled Water Pumps
- Replaced pivot bearing on #4 Boiler blowdown valve

Modifications and Improvements

The parking lot area was re-sealed and striped in September 2010 by an outside contractor.



Motorcycle Parking Area



Main Entrance

Constellation Energy Maintenance personnel installed safety gates on the access level to the cooling towers and the ladder access from the Mezzanine to the Boiler Room.



Cooling Tower Safety Gate



Mezzanine Level Safety Gate

Constellation Energy Maintenance personnel installed a new sink in the Maintenance Shop area in May 2011.



Maintenance Shop Sink

Constellation Energy's Corporate Safety officer requested a modified safety shield be installed on the drill press in the Maintenance Shop.



New Safety Guard on Drill Press



Energy Distribution System

Preventive and Predictive Maintenance

All the direct buried portions of the EDS are checked monthly by means of thermographic imaging. When a hot spot or cool spot is detected, it indicates a possible leak in our piping. Depending on the severity of the thermal temperature variance from the surrounding area, a determination is made whether to dig up the affected area.

Constellation Energy maintenance personnel perform monthly inspections of EDS tunnels, as well as, the State steam tunnel and the A.A. Birch building tunnel. Monthly manhole inspections are also conducted. The condition of the structures, piping, supports, insulation, seals, lighting and ventilation is documented. Any deficiencies noted are prioritized and scheduled for repair accordingly.

CNE personnel have been very diligent in monitoring condensate return quality. When unacceptable levels of iron and hardness contamination are discovered, the condensate return is placed to drain either in the customers building or in the EDS tunnel. This water is not suitable for use in the boilers. Since Constellation Energy has limited control over what the DES customers return, alternative remedies continue to be explored for this problem.

When the customer meter readings are taken for the preceding month, the readings are reviewed. If they vary 30% high or low, from the three year average, Instrumentation personnel check the questionable metering devices for calibration as required in the customer buildings.

The sump pump alarms at the A.A. Birch Building, CJC and Manhole 18 are tested periodically for proper operation.



Routine Maintenance and Emergency Repairs

Some of repairs can be made without disrupting service to the customers while others require sections of the system to be shut down. When possible, CNE will hire an on-line leak repair contractor to facilitate steam leak repairs without interrupting service to the DES customers. Several expansion joints, valves and flanges were repaired throughout the system during the past year using this technique.

The majority of jobs performed in the EDS require off duty policemen to perform traffic control. The following are examples of the routine maintenance and emergency repairs that have been performed on the EDS in FY 10-11.

July 2010

- A temporary repair was made to the steam valve in M/H B prior to it being replaced.
- Constellation Energy I & E personnel adjusted the chilled water return set point at the John Sevier Building from 52°F to 50°F on July 1, 2010 and from 50°F to 48°F on July 7, 2010.
- The grease lines to the ventilation fan bearings were replaced on the 4th Avenue Tunnel Fan.

August 2010

- Repaired leak on chilled water return pressure transmitter at LP Field

September 2010

- Constellation Energy I & E personnel loaded DAQ Standard software and last year's data onto Wildhorse Building Engineer's computer (data lost during flood).
- CNE personnel isolated the chilled water supply and return valves to the Symphony and drained the lines to allow C-Tech to install new chilled water metering devices on September 15, 2010. The existing metering was damaged during the May 2010 Flood. This work was completed within the scheduled 8 hour time frame and CNE personnel restored chilled water service by 3: 30 p.m.

October 2010

- Replaced the steam trap and associated piping on the Hume Fogg High School service line in the 7th Avenue Tunnel on October 1, 2010.
- Replaced existing steam traps with new ones in Manhole L and Manhole A.

November 2010

- Installed safety swing gates on the platforms at Manhole 17 and Manhole 22 in the EDS Tunnel.
- CNE Maintenance Personnel assisted a representative from TEG in reviewing the insulation repairs in Manholes B, B2, B3, B4, M and K (Flood damaged manholes).



December 2010

- Manhole B2 was pumped out every day during the work week.
- Winterized EDS Tunnels (install plywood over intake at 5th Avenue & Broadway)
- Replaced two steam traps in the Broadway Tunnel on December 13, 2010.

January 2011

- Manhole B2 was pumped out every day during the work week.
- Replaced the sight glass on Manhole 18 Condensate Tank.
- CNE I & E personnel replaced the circuit board on the A. A. Birch Sump Pump Controller.
- Library and Archives personnel contacted CNE on January 7, 2011 to report an excessive amount of steam coming out of Manhole S5. After investigating, it was determined a domestic city water line was leaking outside of the manhole, filling the manhole with water, causing the problem. The manhole was pumped until Metro Water Services personnel arrived to isolate the leak and make repairs.

February 2011

- Manhole B2 was pumped out every day during the work week.
- Replaced the steam trap assembly in Manhole 10.
- Removed damaged light bulbs and fixtures from EDS Tunnel.
- CNE personnel assisted a representative from TEG several days during the month on the following:
 - Access and review of Manhole 13 Structural Repairs
 - Manhole 3 and 4 Structural Repairs
 - Tunnel Structural Repair Review
 - Manhole Insulation Review (Manholes B,B2,B3,B4)

March 2011

- Manhole B2 was pumped out every day during the work week.
- Installed vents and drains on several drainable/dryable casings.
- CNE personnel assisted a representative with TEG several days during the month on the following:
 - Punchlist and condensate line inspections in Manholes B3 and B4
 - Walkthrough of A.A. Birch Tunnel to review possible structural repairs with contractor and MNDES representative

April 2011

- Manhole B2 was pumped out every day during the work week.
- Installed vents and drains on several drainable/dryable casings.
- Removed winterization materials from EDS Tunnel.
- Repaired steam valve flange leak in the 201 4th Avenue Building
- 4th Avenue Tunnel Fan Mechanical Repairs
 - Constellation personnel replaced the fan shaft, bearings and fan sleeve on the north ventilation fan in the 4th Avenue Tunnel.

- 7th Avenue Tunnel Fan Electrical Repairs
 - Constellation personnel replaced belts on the 7th Avenue ventilation fan. On the afternoon of April 14, 2011, while re-energizing this exhaust fan, the conductor on the “B” phase burned away from the terminal in the main service disconnect. This fault was most likely due to a loose connection. The wire burned back several inches and was not long enough to attempt a re-termination. It was determined that the service needed to be replaced from the NES meter to disconnect. NES isolated the service and installed a plug into the meter base. Wolfe and Travis was engaged to pull new wire and install a new disconnect. This was completed on April 15th. NES was contacted to re-energize the service. While attempting to perform this task, they found the meter base had a bad meter socket. Due to the lateness of the day it was decided to resume work the next morning. Wolfe and Travis installed a new meter base and NES re-energized the service at approximately 10:00 a.m. April 16, 2011.

May 2011

- Manhole B2 was pumped out every day during the work week.
- Hotel Indigo (former Nashville City Bank Building)
 - Constellation Energy’s Customer Service Manager was contacted by the Hotel Indigo Building Manager to report a steam leak in their basement. A service line easement for Wells Fargo Plaza goes through this space. CNE Maintenance personnel repaired the leak on the afternoon of May 17th and returned steam service to Wells Fargo that night.
- MCCC Steam & Chilled Water tie-ins at Manhole B4
 - Constellation Energy’s Maintenance personnel assisted with the steam and chilled water tie-in’s in and around Manhole B4 during the month. Activities included: isolating steam and condensate in Manhole B4, isolating chilled water supply and return lines in Manholes B3 and B4 and draining the systems so contractors could make tie-ins. Manhole B4 and excavated area outside of manhole had to be pumped out when the domestic water line broke, a sewer lines broke and during all rainfall events. CNE personnel also coordinated with TEG, the subcontractors and Symphony management personnel to minimize the effects of the change over from DES chilled water service to temporary chillers and back to DES.

June 2011

- Manhole B2 was pumped out every day this month until the 15th and every other day afterwards during the work week.
- Restored steam service from Manhole 3 to the 401 Union Building.
- MCCC Tie in at Manhole B4

CNE Maintenance personnel continued to monitor and pump out Manhole B4 and the surrounding trench following rainfall events during the month. They also assisted the contractors in isolating condensate valves and placing condensate to drain when necessary to facilitate hydrostatic testing.

DES Projects

The following details projects performed to improve the reliability of the Energy Distribution System (EDS). The Metro Liaison, Contract Administrator, Constellation Energy, Thermal Engineering Group (TEG) and several local contractors worked together to complete the following:

DES-033 Manhole Lid and Ring Replacement

This is an open ended project. From time to time it becomes necessary to replace manhole rings and lids, either due to normal wear or Metro Public Works paving projects. The castings are manufactured in Nashville by John Bouchard & Sons and Constellation Energy usually contracts with C.K. Masonry to do the installations.

DES-059 CJC Condensate Service Line Repair

JEG exposed the leak on the CJC condensate line on September 9, 2010 and TEG viewed the excavation and provided a procedure for the repair. JEG installed new piping and insulation September 14-15, 2010. Constellation Energy personnel restored condensate service on 3rd Avenue September 16, 2010. JEG completed the backfill and paving work on September 21, 2010. Metro approved the backup documentation in October and Constellation issued the invoice.



CJC Condensate Service Line Repair



CJC Condensate Service Line Repair

DES-060(C) Manhole B2 Insulation Rehabilitation

Pipe and valve insulation was damaged in this manhole as the result of a steam leak. Warren Insulation began repairs on April 26, 2010 and worked through April 29, 2010. Metro Public Works requested that the manhole frames and lids be removed and plated for street milling and paving to begin. Due to the flood, street paving was delayed until further notice. The manhole frames and lids were re-installed to allow Constellation Energy Maintenance personnel access to remove water from the manhole. Some of the new insulation was damaged by the infiltration of water from the flood was replaced as a change order to this project in November 2010.



Manhole B2 Insulation

DES-061(A) Manhole 1 & 2 Structural Steel Repairs

The punchlist items for this project were completed in September 2010. TEG reviewed this work on October 4, 2010 and Constellation issued invoice to Metro.



Manhole 1 Structural Steel Repairs



Manhole 1 Structural Steel Repairs

DES-061(B) Manhole 3 and 4 Structural Steel Repairs

JEG began structural repairs in Manholes 3 and 4 on May 3, 2011. A representative from TEG reviewed and issued punch list items on May 9, 2011. The punch list items were completed on May 17, 2011 and the photographs of the work were sent to TEG for approval. Insulation work, including blankets, has not been completed as of this report due to the lead time on the blankets.



Manhole 3 Structural Repairs



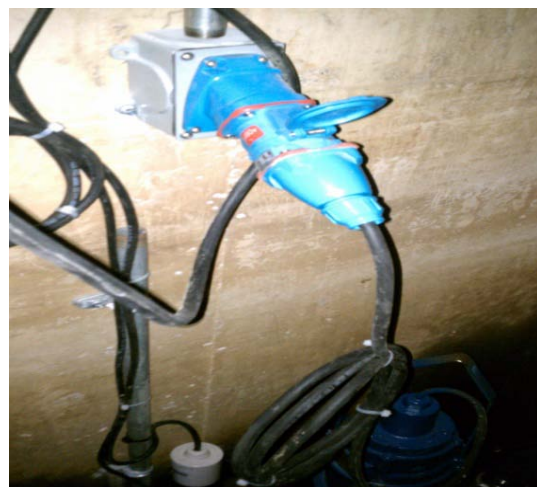
Manhole 4 Structural Repairs

DES-063 Manhole A, B and M Sump Pump Installation

Due to budget constraints, this project scope was reduced. The sump pump to Manhole B was deemed to be the highest priority. Constellation Energy personnel performed this installation beginning in February and completed the work by the end of March 2011.



MH B Sump Pump Control Cabinet



Manhole B Sump Pump

DES-066 First Avenue Steam Line and Manhole Abandonment (Phase II)

- This project carried over from FY 09-10. Punchlist items were completed in November 2010 and Constellation issued invoice to Metro.
- **DES-067 EDS Tunnel Structural (Rock) Rehabilitation**
The contractor (Proshot Concrete) began work on July 5, 2010 and has completed some rock bolt installation and wire mesh reinforcement. They began spraying the reinforced concrete the second week in August 2010. The Structural engineer reviewed the rock bolt installation, wire mesh and wick drains prior to the concrete installation.
- On August 10, 2010, Proshot Concrete conducted a demonstration for a representative from TEG and their Structural Engineer on how Proshot planned to spray concrete on the roof area of the tunnel. Proshot issued Pay request #1 on August 31, 2010. TEG reviewed the work on northern section of 7th Avenue and issued a punch list on September 27, 2010. Proshot sent a reply to the punch list items on October 1, 2010.
- Proshot Concrete issued pay request #2 in September. On October 19, 2010, a representative from TEG reviewed the work completed to date with CNE's Operations Manager. TEG agreed that pay request was consistent with amount of work performed.
- Pay request #3 was issued November 30, 2010. A representative from TEG reviewed this work on December 10, 2010 and issued a punch list that was relayed to Pro Shot. Work continued on the eastern end of the Broadway Tunnel.
- Proshot issued Pay Request #4 on January 31, 2011. A representative from TEG and Constellation Energy reviewed the work on February 4, 2011. Constellation Energy issued an invoice to Metro for this portion of the job.
- Proshot issued Pay Request #5 on February 22, 2011. A representative from TEG and Constellation Energy reviewed the work on March 1, 2011.
- Proshot completed the final punch list items on May 24, 2011. A representative from TEG reviewed and concurred that punch list items are complete. Constellation has invoiced Metro for remaining contract amount.



EDS Tunnel Structural Repairs-Broadway



EDS Tunnel Structural Repairs-Broadway

DES-069 Municipal Auditorium Condensate Tempering Station Installation

The insulation was completed in July 2010 and Constellation issued an invoice to Metro.



Municipal Auditorium Tempering Station



Municipal Auditorium Condensate Pumps

DES-073(A) M/H 18 Platform Extension

A pre-bid meeting was held on August 25, 2010. Prospective contractors viewed the proposed work area in Manhole 18. Bids are due September 3, 2010 at 2:00 p.m. JEG was awarded this portion of the project on September 13, 2010. A pre-construction meeting was held on September 29, 2010. The submittal process was complete in October and following coordination with Metro Public Works the project began in early November. The platform was completed on November 18, 2010 and a representative from TEG reviewed the work and issued a punch list. The punchlist items were completed in early December and Constellation issued an invoice to Metro.



Manhole 18 Platform Extension



Platform Extension in Manhole 18

DES-073 (B) M/H 18 Sump Pump Control Modifications

Constellation Energy submitted a proposal to relocate sump pump controls in Manhole 18 which was accepted. The material was ordered in January 2011 and Constellation I & E personnel began running the conduit in February. The electrical control panel was raised after the new platform (see DES-073A above) was completed. New floats and lighting was installed by the end of March 2011. Constellation issued an invoice for this project in April 2011.



M/H 18 Sump Pump Control Panel



M/H 18 Sump Pump Electrical Connections

DES-076 Manhole S4A Rehab (State Manhole at 7th Avenue North & Charlotte)

Metro's Structural Engineer has deemed this Manhole unsafe for personnel to enter. The State has removed the fiber optic lines housed in this manhole. A pre-bid meeting was held on June 14, 2011 at the EGF. The bids are due July 8, 2011.

DES-077 Music City Center Service Connection

TEG provided design documents for the service connection to the new Music City Convention Center. Bell Clark was awarded the Construction Management contract to run the DES service lines to the building. This is the same contractor building the convention center. Constellation Energy and Metro DES representatives continue to communicate with building, design and construction representatives for this project. DES awarded three contracts related to installing the DES service lines. John E. Green was awarded the mechanical portion, Mountain States Contractors, LLC was awarded the civil portion and Insultek was awarded the pre-insulated pipe contract.



MCCC Chilled Water Piping



MCCC Chilled Water Piping

DES-077(A) Manhole B4 Steam Isolation Valve Installation for MCCC

NMC installed a new steam isolation valve and warm up bypass line in Manhole B4 on October 28-29, 2010. This valve was installed to allow the new MCCC tie in to be made without a steam outage. The valve was installed to DES specifications and per TEG's drawings. The insulation of the additional valve and piping was completed by Warren Insulation on November 2, 2010.



Manhole B4 Steam Isolation Valve for MCCC



DES-077(B) Chilled Water Pump Modifications

CNE submitted a proposal for the Chilled Water pumps, motors and electrical modifications required for this project on November 24, 2010. A meeting was held December 16, 2010 to address TEG's questions and comments. TEG issued a revised RFP for this project January 31, 2011. CNE submitted a revised proposal and TEG declined to accept CNE's pricing. Metro issued another RFP for this project in March and issued a Purchase Order to Tencarva Machinery for this work in April 2011. Equipment is on order with installation expected to begin in the fall of 2011.

DES-077(C) Steam and Chilled Water Metering

CNE submitted a proposal for MCCC metering package in December 2010. A request was then made for an alternate steam control valve to be used. In January, CNE submitted a revised proposal which was accepted by Metro. In February, submittals were sent to TEG for approval. They have been accepted. Material was ordered and delivered to the MCCC installation contractor on May 19, 2011. Anticipated start up of metering equipment is November 2011.

DES-081 Flood Related Repairs

Constellation Energy personnel concluded the flood related repairs during FY 2010-2011. Some of these items are listed below:

- Assisted Victor Products representative with Tunnel Communication System
- Replaced Buck Boost Transformer cabinet
- Met with contractor and received a quotation to replace Metering System at Symphony
- Replaced 600 feet of "leaky feeder" communication cable in the EDS Tunnel
- Met with FEMA representative to review Tunnel repairs to date and additional repairs required due to flood damage.
- Met with FEMA representative and State TEMA representative to review repairs at Manhole L in Riverfront Park.
- Met with FEMA to review Metering System at Symphony on August 10, 2010.
- Met with FEMA August 18, 2010 to approve Tunnel Communication Project Worksheet.
- Met with FEMA representative to review Electrical Project Worksheet on August 26, 2010
- Met with FEMA representative and State TEMA representative to review repairs at Manhole L in Riverfront Park.
- Communicate with FEMA representative regarding Pumping Costs Project Worksheet
- Constellation Energy I & E personnel replaced 30 light fixtures in Tunnel during month of September.

- Constellation personnel completed replacing the remaining light fixtures, GFCI outlets and emergency lights, damaged during the flood, on June 29, 2011.



Tunnel Condensate Pump Disconnects



Tunnel Communication Base Station

DES-081(A) Manhole L Expansion Joint Replacements

The plant steam system was shutdown and pressure was vented to allow the contractor to begin work on this project at 6:00 a.m. July 22, 2010. The contractor completed the majority of the scheduled work by 6:00 a.m. July 23, 2010. Upon inspection of the completed work, an additional drip leg, steam trap assembly, condensate isolation valve and expansion joint were added to the project. All except the 4" condensate expansion joint were installed on July 24, 2010. The condensate expansion joint was installed on July 31, 2010 and steam and condensate service was restored to the Wildhorse Saloon on August 2, 2010. The concrete and brick paver work was completed and fencing removed on the morning of August 9, 2010. Metro Parks Department personnel inspected the restoration work and gave their approval to opening the area around the flagpoles. The insulation contractor installed the insulation blankets on September 23, 2010. Constellation Energy issued back-up documentation to TEG for review. A change order was issued for the Condensate line modifications. This project was completed and backup documentation reviewed by TEG. Final invoicing was completed in November 2010.



Manhole L Flood Damage Repairs



Manhole L Flood Damage Repairs



DES-081(B) Temporary Boiler

At Metro's request, a temporary boiler was installed while repairs to Manhole L were taking place. Constellation Energy personnel coordinated the installation and operated this boiler. The temporary boiler carried the steam load from approximately 3:15 p.m. July 21, 2010 until Constellation Energy personnel began restoring steam service from the plant to the EDS at approximately 5:00 p.m. July 24th. The temporary boiler was taken off line and the steam system was at normal operating pressures at 12:27 a.m. on July 25, 2010. Constellation Energy issued invoice to Metro for this project in November. Ware, Inc. requested a change order for additional set up and removal costs. This change was approved by Metro in February 2011.

DES-081(C) Manhole Insulation Repairs (Flood Damage)

Warren Insulation provided quotes to re-insulate Manholes B, B2, B3, B4, M and K. Constellation Energy submitted a proposal based on these quotes and they were accepted by Metro. Warren Insulation began the work to replace the insulation in Manhole B, B3, B4, M and K on September 8, 2010. Warren Insulation completed the insulation repairs in Manhole B, B3, B4, M and K on November 13, 2010 and a representative from TEG issued a punch list on November 22, 2010. These items were completed on December 30, 2010. TEG requested additional work be performed in Manholes B and B3. Constellation Energy issued a change order for these items. Warren Insulation completed this work in February and an invoice was issued in March 2011.

DES-081(D) Symphony Metering Replacement (damaged during flood)

C-Tech submitted a quote to replace the Symphony Metering components damaged during the flood. Constellation Energy submitted a proposal to Metro and it was accepted. C-Tech began the work to replace the metering system the week of September 13, 2010. The work was completed on September 24, 2010. Constellation Energy personnel reviewed the installation on September 30, 2010. Due to lack of permanent power at the Symphony the metering was energized using temporary power. The metering installation and permanent power to the CX Panel was completed on November 9, 2010. Steam and Chilled water were restored to the Symphony on November 11, 2010.

DES-082 Andrew Jackson Building Steam Isolation Valve Replacement

JEG removed existing valve and installed spool piece in its place. A new valve was installed in horizontal position as well as a new dripleg. A representative from TEG inspected the new piping arrangement and approved the installation on October 4, 2010. Insulation was completed on October 6, 2010.



AJ Steam Valve

DES-083 Manhole 13 Steam Isolation Valve Replacement & Support Modifications

A leaking 8" steam isolation valve in Manhole 13 was replaced with a new Velan, butt weld, gate valve on November 20, 2010. Following the valve replacement, the 8" steam line flange began leaking. Along with making the necessary leak repair, additional pipe supports and braces were installed to minimize stresses on the pipe. This work was done on a T & M basis as a change order to the original project. The majority of the work was performed during a scheduled steam outage on April 16, 2011. JEG performed additional work the following week. A representative from TEG reviewed the project and issued a punch list. The punch list items were completed on June 14, 2011. Insulation removed while installing brackets and supports will be replaced in July.



MH 13 Structural Supports



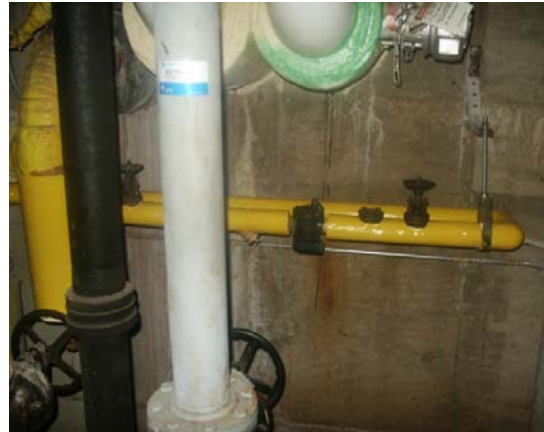
MH 13 Structural Supports

DES-084 401 Union Steam Isolation Valve and Piping Modifications

In order to maintain the integrity of the steam line to the building and prevent the existing valves from leaking by, a determination was made to modify the piping arrangement in the mechanical room of the 401 Union Building. TEG provided drawings of the proposed modifications and JEG completed the mechanical portion of this work on November 11, 2010. Insulation was completed on November 19, 2010.



401 Union Piping Modifications



401 Union Piping Modifications

DES-085 Exploratory Excavation and Related Repairs at Manhole 10

Green florescent dye is added to the chilled water to help locate leaks in the system. CNE Maintenance personnel discovered water, colored with green dye, entering the Manhole 10 vault. An exploratory excavation to locate the leak began on the evening of January 17, 2011. The excavation exposed a leak on a corporation stop valve used to vent the pipe when it was installed over 30 years ago. The repair required a section of the chilled water system along 5th Avenue North, from Deaderick Street to Gay Street, to be isolated and drained. CNE's Customer Service Representative (CSR) notified the affected customers. The broken corporation stop valve was removed and a plug was installed in its place. This section of the system was then refilled and service to the customers was restored at approximately 10:30 p.m. on January 18, 2011.

This excavation also revealed significant deterioration of the condensate return line from St. Mary's Church. After consultation with representatives from TEG, it was determined the St. Mary's steam and condensate lines, as well as, the 8" steam line leaving Manhole 10, which runs under the sidewalk at St. Mary's Church, should also be replaced and insulated. This work was accomplished by John E. Green. Additionally, an electrical conduit was installed from the church to the manhole and two drain lines were installed from the manhole to the storm sewer so that a permanent sump pump could be installed if needed. The 8" steam line under the sidewalk area was also re-insulated.

Following an inspection by a representative from TEG, the area was backfilled with sand and flowable fill on January 24, 2011. The sidewalk was restored on January 27, 2011 and the asphalt binder was laid the following day. Final paving was completed on January 31, 2011. Pavement striping was completed on February 5, 2011.



Steam & Condensate Piping to St. Mary's



Steam, Condensate and ChW Piping to St. Mary's

DES-086 Manhole 12 Lid Replacement and Miscellaneous Repairs

Due to excessive deterioration of the of Manhole 12 concrete lid, TEG's Structural Engineer determined the vault was unsafe to enter. Roy T. Goodwin began work on this project April 4, 2011. The lid was removed and replaced with a new pre-cast top. A new ladder, structural steel supports and insulation was installed. The curb and gutter was replaced on April 19, 2011. Final paving was completed on April 28, 2011. The insulation blankets were installed and the irrigation sprinkler heads and flower beds were restored in May. A final walkthrough is yet to be scheduled.



Manhole 12 lid before repairs



Manhole 12 lid after repairs



Outstanding Issues and Recommendations

Outstanding Issues

Potential projects that should be customer funded:

- Polisher on Condensate return system
- Oxygen Trim on burners
- Capacitor Bank on Electrical feed to plant
- Reverse Osmosis system on boiler make-up water
- Ice storage

Recommendations for FY 2011-2012

- A. A. Birch Tunnel Structural Repairs
- EDS Tunnel Lighting & Electrical – Phase III
- Continue Pipe insulation restoration in manholes
- Continue Pipe insulation restoration in tunnels
- Investigate decoupling James K. Polk Building to improve chilled water system hydraulics
- Replace Bellows Expansion Joint in Manhole 23
- Install permanent sump pumps in Manholes A & M on First Avenue
- Manhole & Tunnel Structural Steel Rehabilitation & Corrosion Prevention
- Investigate the installation of additional Division Valves
- Replace condensate line from Manhole 6 to Manhole 23
- Replace steam and condensate service lines to the Sheraton Hotel
- Replace steam and condensate service lines to the Hermitage Hotel



Sales and Marketing

Sales and Marketing Review 2010 - 2011

Metro DES requested the sales, marketing and customer support services be reinstated to recognize and supplement CNE’s obligations as identified under Appendix 18 of the Amended and Restated Management Agreement (ARMA) for the FY2011 Management Period.

Potential new customers identified were the Country Music City Hall of Fame and the Omni Hotel that is to be constructed in conjunction with the Music City Convention Center. After several discussions and negotiations, both parties decided not to connect to the district energy system.

The Medical Mart, expected to be built on top of the space of currently occupied by the existing Nashville Convention Center, is still a potential customer. The economy and other market conditions have slowed the pace of this development.

Continuing activities include:

- A Sales and Marketing Report is included in the Monthly Operations Report.
- The DES E-newsletter; produced and issued twice per year.
- The CNE/NDES Annual Golf tournament for existing and potential customers as well as strategic partners.
- CNE personnel participate in Nashville Business groups and developers meetings held throughout the year.
- CNE management staff attends meetings and social events to target local engineering, development and business groups and provide presentations and tours of DES to point out the positive attributes of the system.

System Capacity		
	Diversity Factor (1)	
	77.58%	73.16%
	Chilled Water (tons)	Steam (pph)
Installed Capacity	23,400	260,000
Max Allowable Customer Load (2)	20,400	157,560
Maximum System Peaks	15,690	119,783
Net Undiversified Capacity Available for Resale	4,710	37,778
Net Diversified Capacity Available for Resale	6,071	51,636
Contract Capacity for Existing Customers	23,973	244,362
Diversified Potential for Contract Capacities	30,044	295,998

(1) Net diversified capacity for chilled water requires pump modifications.

(2) Values based on reduction of stand-by chiller & boiler and EDS & EGF losses

*Note: Table provided and updated by TEG March 17, 2011 (does not include MCCC demand)



Utilities and Fuel Procurement

During FY 2010-2011, CNE provided proactive support to Metro in the areas of fuel procurement and risk management. Metro, in a collaborative effort with CNE, Fellow-McCord and Associates, Inc. and Gas Supply Consulting Company, made natural gas and propane procurement recommendations. Procurement decisions were made based upon a matrix of pricing and consumption factors including but not limited to then-current pricing conditions, future pricing conditions, technical and fundamental pricing trends, consumption variances as a function of incremental demand and conservation and budgetary considerations. All natural gas supply was procured from Atmos Energy Marketing Company (“AEM”) under the terms and conditions of an agreement between CNE and AEM for a service period extending through June 2012. The costs includes the amount paid to AEM for the cost of gas (including transportation to the Nashville city gate), Piedmont for the cost of transportation from the city gate to the plant and the risk management fees, but it does not include the FEA.

Following is a report of the natural gas purchased in FY2010-2011:

Natural Gas

Month	Quantity (DT)	Unit Cost	Amount
July, 10	15,769.0	\$ 6.5328	\$ 103,016.38
August	16,720.8	\$ 6.5168	\$ 108,965.62
September	19,077.7	\$ 6.1169	\$ 116,695.69
October	28,526.9	\$ 5.7589	\$ 164,284.74
November	43,633.1	\$ 5.4060	\$ 235,880.23
December	78,136.6	\$ 5.2981	\$ 413,974.51
January, 11	76,209.5	\$ 5.3772	\$ 409,791.32
February	57,561.8	\$ 5.4866	\$ 315,815.81
March	46,860.6	\$ 5.3416	\$ 250,309.17
April	31,579.9	\$ 5.3127	\$ 167,774.43
May	28,273.9	\$ 5.4366	\$ 153,713.49
June	19,625.8	\$ 5.5978	\$ 109,861.44
Total	461,975.6	\$ 5.5200	\$ 2,550,082.83



Propane

Month	Quantity (DT)	Unit Cost	Amount
July, 10	-	N/A	\$ -
August	-	N/A	\$ -
September	-	N/A	\$ -
October	-	N/A	\$ -
November	-	N/A	\$ -
December	57.330	\$ 17.0033	\$ 974.80
January, 11	196.560	\$ 17.0033	\$ 3,342.17
February	4.095	\$ 17.0037	\$ 69.63
March	-	N/A	\$ -
April	28.665	\$ 17.0033	\$ 487.40
May	-	N/A	\$ -
June	8.190	\$ 17.0037	\$ 139.26
Total	294.84	\$ 17.0033	\$ 5,013.26

During FY 10 – 11, electricity and water were purchased each month based on the rate schedules of Nashville Electric Service and the Metro Water Department.

Electricity

Month	Quantity (Kwh)	Unit Cost	Amount
July, 10	7,000,000	\$ 0.07908	\$ 553,575.49
August	6,916,000	\$ 0.08271	\$ 571,995.84
September	5,012,000	\$ 0.08812	\$ 441,680.28
October	3,416,000	\$ 0.08168	\$ 279,008.53
November	2,676,283	\$ 0.08052	\$ 215,487.58
December	2,311,578	\$ 0.10107	\$ 233,623.49
January, 11	2,238,321	\$ 0.10306	\$ 230,670.88
February	2,321,746	\$ 0.10216	\$ 237,201.18
March	2,839,022	\$ 0.09618	\$ 273,043.56
April	3,585,111	\$ 0.07344	\$ 263,298.93
May	4,370,471	\$ 0.07263	\$ 317,423.01
June	6,140,066	\$ 0.10450	\$ 641,622.83
Total	48,826,598	\$ 0.08722	\$ 4,258,631.60



Water & Sewer

Month	Quantity (Kgal)	Unit Cost	Amount
July, 10	16,376,712	\$ 0.00343	\$ 56,161.05
August	16,595,128	\$ 0.00343	\$ 56,923.83
September	12,679,348	\$ 0.00343	\$ 43,520.96
October	3,962,156	\$ 0.00345	\$ 13,654.39
November	7,943,760	\$ 0.00344	\$ 27,313.70
December	7,708,888	\$ 0.00344	\$ 26,518.07
January, 11	5,922,664	\$ 0.00344	\$ 20,399.96
February	7,120,212	\$ 0.00344	\$ 24,512.14
March	5,201,592	\$ 0.00345	\$ 17,933.32
April	8,194,340	\$ 0.00344	\$ 28,178.70
May	9,557,944	\$ 0.00343	\$ 32,827.66
June	13,053,348	\$ 0.00363	\$ 47,404.74
Total	114,316,092	\$ 0.00346	\$ 395,348.52



Financial Report

The following is an explanation of the Appendices associated with this financial report.

Appendix 1 – Customer List

This chart lists the number of customers served by the District Energy System (DES). The customers are sorted according to three categories:

- Private Customers
- State of Tennessee Customers
- Metropolitan Nashville (City) Customers

The first column labeled “Buildings Served” shows the number of corporate or governmental entities served. The second column labeled “Bills Rendered” shows the number of bills sent to customers each month.

Appendix 2 – Revenues

This chart summarizes the revenues charged per month by DES to each customer for fiscal year 2009 – 2010.

Appendix 3 – Customer Rate Reconciliation

Monthly Reconciliation charts from July 2009 to June 2010 are found in this appendix. The final chart is a Summary Reconciliation table for FY 09-10.

These charts detail the amount allocable to customers to the amount allocated to customers. The difference in the allocable amount and the amount allocated to customers is paid by Metro and is called the Metro Funding Amount (MFA).

- Facilities Capital Charge** – The debt service on revenue bonds issued for the project.
- System Operator Charge** – Includes the system operator’s fee which is most of the operations and maintenance costs of the system.
- EDS Improvements Charge** – Due to a CPI adjustment of 2.67%, the annual replacement and repair allowance was \$174,395 for FY 10-11.
- Metro Incremental Administrative Charge** – Per the customer service agreement are the “actual, reasonable and necessary” cost over and above current Metro operating costs to manage the DES system and operator.

- e. **Pass Through Charges** –
 - i. **Water and Sewer** – The actual cost of providing water and sewer services.
 - ii. **Water Treatment Chemicals** – The actual cost of chemicals for treating water.
 - iii. **Engineering** – The engineering costs required for any non-capital projects, customer related issues, meetings, etc.
 - iv. **Insurance** – The cost to maintain all-risk property insurance and business insurance policies.
 - v. **EDS Electricity** – The cost of electricity for tunnel lights and safety equipment.
 - vi. **EDS Surcharge** – Surcharge to private customers only to cap their annual cost of any EDS repairs made by Metro (\$69,639).
- f. **Energy Charges** –
 - i. **Electricity** – The actual cost of electricity.
 - ii. **Natural Gas** – The actual cost of natural gas.
 - iii. **Propane Gas** – The actual cost of propane.

Appendix 4 – CEPS Invoice Reconciliation (FEA)

Exhibit 1 – Performance Guarantee Calculations



Appendix 1



District Energy System
Customers
June 30, 2010

<u>Buildings Served</u>	<u>Customer Name</u>
PRIVATE	
1	Wachovia Bank
2	Parkway Towers
3	Sheraton Hotel
4	Hermitage Hotel
5	501 Union Building
6	201 4 th Ave. Building (<i>formerly SunTrust Bank</i>)
7	Fifth Third Financial Center
8	Renaissance Hotel
9	Renaissance Office Tower
10	St. Mary of the Seven Sorrows
11	Nashville City Center
12	Wildhorse Saloon
13	Ryman Auditorium
14	Schermerhorn Symphony Center
15	Viridian Residential Tower
STATE	
16	Andrew Jackson
17	Central Services
18	Cordell Hull Building
19	John Sevier
20	War Memorial Building
21	Library and Archives
22	Supreme Court Building
23	State Capitol Building
24	James K. Polk
25	Citizen Plaza Building
26	Tennessee Tower
27	Tennessee State University
28	Tennessee Performing Arts Ctr.
29	Legislative Plaza Bldg.
30	Rachel Jackson Bldg.
METRO	
31	401 Union Building
32	A. A. Birch
33	Metro Courthouse
34	Municipal Auditorium
35	Criminal Justice Center
36	Convention Center
37	Bridgestone Arena (<i>formerly Sommet Center</i>)
38	LP Field
39	Hume Fogg School
40	Nashville Public Library

Appendix 2

*Metro Nashville District Energy System
FY 10 - 11*

Chilled Water and Steam Revenues

Customer No.	Customer Name	July	August	September	October	November	December	January	February	March	April	May	June (including True Up)	Total
2	A. A. Birch	74,010.53	83,829.62	74,490.43	63,834.11	62,529.16	67,837.60	65,516.36	62,684.54	62,329.31	58,878.93	61,784.54	71,424.68	809,149.81
4	Metro Courthouse	29,518.57	29,467.90	26,149.75	21,720.94	24,779.98	29,389.17	29,231.09	26,950.57	24,830.83	22,793.97	24,507.95	29,504.58	318,845.30
7	Parkway Towers	26,252.30	26,948.42	24,534.09	20,138.20	27,458.17	36,856.83	35,637.70	32,129.69	28,946.58	25,396.23	25,670.76	26,780.01	336,748.98
9	Wachovia	17,695.67	16,353.63	12,399.01	11,401.34	9,938.73	14,027.43	14,570.28	12,872.21	10,886.18	11,689.36	12,185.64	16,190.48	160,209.96
10	Regions Financial Corporation	7,209.62	7,119.57	7,118.08	7,090.95	7,290.90	7,165.43	7,408.21	7,162.59	7,164.56	7,155.72	7,162.64	6,949.51	85,997.78
11	Sheraton Hotel	74,170.23	72,628.98	62,690.37	55,924.48	58,695.78	65,775.21	68,761.08	59,631.19	56,974.02	52,229.49	54,760.40	68,453.47	750,694.70
12	Municipal Auditorium	24,073.93	20,860.54	18,189.26	16,421.36	17,382.86	29,874.93	27,049.49	21,095.28	15,220.53	14,723.40	16,189.73	21,374.13	242,455.44
21	Hermitage Hotel	26,638.92	27,770.47	24,221.06	21,713.69	21,986.35	26,438.96	25,067.11	23,590.24	22,338.04	24,309.28	24,851.97	27,282.06	296,208.15
24	Criminal Justice Center	46,722.12	48,183.20	43,440.83	38,252.15	45,495.04	59,864.20	62,003.48	52,254.94	44,616.71	37,521.82	37,517.73	45,606.39	561,478.61
25	501 Union Association	9,618.32	11,369.29	8,437.58	7,770.19	11,827.65	13,853.97	14,465.25	10,470.50	9,865.46	8,234.69	7,632.16	9,737.38	123,282.44
28	Sun Trust Bank	41,073.47	43,698.18	35,570.47	27,568.60	37,063.41	43,939.59	43,731.99	36,008.10	35,348.75	25,694.98	26,293.28	38,693.22	434,684.04
29	Fifth Third Financial Center	35,972.72	36,764.26	32,891.18	27,134.59	26,455.75	24,731.80	25,332.85	24,853.01	25,753.61	26,157.72	27,463.77	36,422.63	349,933.89
32	Renaissance Hotel	78,825.22	80,065.29	71,370.39	73,351.44	73,317.18	82,904.82	79,818.19	72,110.83	71,015.92	64,033.08	67,914.78	73,900.50	888,627.64
33	Convention Center	81,781.09	80,178.50	93,713.86	77,734.54	68,017.55	75,128.07	77,499.85	70,180.70	70,587.10	66,207.80	67,547.96	80,813.88	909,390.90
34	Renaissance Office Tower	16,190.42	16,244.54	12,446.05	11,561.66	10,075.05	8,201.50	8,583.62	8,376.18	8,868.44	8,855.99	9,110.10	14,124.11	132,637.66
35	St. Mary of the Seven	901.44	901.44	901.44	901.44	901.44	901.44	901.44	901.44	901.44	901.44	901.44	901.44	10,817.28
36	Nashville City Center	40,244.42	40,544.22	34,138.46	27,557.83	25,056.41	22,166.80	21,668.64	21,960.59	24,854.69	25,461.08	28,031.42	41,011.15	352,695.71
38	Wildhorse Saloon	19,602.54	21,356.28	16,618.35	12,264.96	11,792.71	12,831.44	13,426.24	11,952.31	12,143.84	12,140.48	12,613.83	17,739.62	174,482.60
39	Ryman Auditorium	20,791.31	22,302.69	18,430.52	14,857.76	13,656.60	13,885.12	13,212.84	13,097.89	13,365.43	13,817.11	15,056.32	19,804.70	192,278.29
40	Sommet Center	127,452.57	118,976.35	134,477.32	133,131.94	127,074.64	148,453.13	126,444.77	134,479.03	139,613.91	123,450.33	124,503.43	147,894.30	1,585,951.72
41	LP Field	66,246.73	69,728.10	55,389.47	35,581.78	30,071.76	27,134.69	27,567.99	27,464.23	29,396.66	34,279.85	40,263.39	67,674.73	510,799.38
43	Hume Fogg School	12,664.21	13,303.59	11,835.68	13,311.55	13,595.35	16,820.46	17,856.04	16,268.77	17,101.47	15,997.51	16,634.14	19,142.12	184,530.89
44	Schermerhorn Symphony	25,404.17	26,014.78	23,216.83	15,189.36	17,387.82	32,344.13	36,532.36	27,615.87	24,219.54	23,897.62	24,439.47	30,648.60	306,910.55
45	Nashville Public Library	31,056.82	30,209.50	25,816.59	20,339.95	21,883.26	22,795.43	21,789.10	21,986.64	25,149.56	24,684.57	28,130.00	39,024.91	312,866.33
49	Viridian Residential	19,703.45	20,023.48	17,650.29	14,608.63	12,995.66	12,098.16	12,058.51	13,217.11	13,729.99	14,229.32	15,091.83	20,121.77	185,528.20
51	State Government of TN	<u>478,409.63</u>	<u>490,301.42</u>	<u>434,568.02</u>	<u>397,122.14</u>	<u>424,091.86</u>	<u>498,210.04</u>	<u>485,492.40</u>	<u>442,301.01</u>	<u>422,168.49</u>	<u>389,683.07</u>	<u>400,122.79</u>	<u>472,610.78</u>	<u>5,335,081.65</u>
	Grand Totals:	1,432,230.42	1,455,144.24	1,320,705.38	1,166,485.58	1,200,821.07	1,393,630.35	1,361,626.88	1,251,615.46	1,217,391.06	1,132,424.84	1,176,381.47	1,443,831.15	15,552,287.90



Appendix 3

Metro Nashville District Energy System
FY 10 - 11

Chilled Water and Steam Revenues

July, 10 - June, 11

Customer Number	Customer Name	Capacity	Operating	EDS Improvement	Metro Incremental	Water And Sewer	Chemical Treatment	Engineering	Insurance	EDS Electricity	EDS Maint Costs Alloc	TIFS	Electricity	Natural Gas	Propane	Total
2	A. A. Birch	\$ 155,106.81	\$ 174,467.28	\$ 7,642.44	\$ 19,752.73	\$ 26,677.62	\$ 9,565.21	\$ 1,470.39	\$ 1,018.21	\$ 2,655.74	\$ -	\$ 17,199.81	\$ 202,156.24	\$ 191,160.34	\$ 276.99	\$ 809,149.81
4	Metro Courthouse	\$ 73,427.36	\$ 81,409.56	\$ 3,566.28	\$ 9,217.33	\$ 8,068.28	\$ 2,979.66	\$ 686.22	\$ 475.13	\$ 1,239.28	\$ -	\$ 8,443.71	\$ 79,689.25	\$ 49,531.99	\$ 111.25	\$ 318,845.30
7	Parkway Towers	\$ 66,941.91	\$ 78,984.72	\$ 3,459.60	\$ 8,941.52	\$ 9,100.35	\$ 3,805.08	\$ 665.64	\$ 460.92	\$ 1,202.19	\$ 7,440.00	\$ 729.80	\$ 99,792.04	\$ 55,080.89	\$ 144.32	\$ 336,748.98
9	Wachovia	\$ 24,674.36	\$ 28,628.64	\$ 1,254.00	\$ 3,203.90	\$ 5,925.02	\$ 2,105.83	\$ 250.88	\$ 167.07	\$ 435.77	\$ 2,673.96	\$ 290.37	\$ 51,432.03	\$ 39,095.85	\$ 72.28	\$ 160,209.96
10	401 Union	\$ 34,104.58	\$ 40,993.56	\$ 1,795.44	\$ 4,640.46	\$ -	\$ -	\$ 345.49	\$ 239.21	\$ 623.92	\$ 3,255.12	\$ -	\$ -	\$ -	\$ -	\$ 85,997.78
11	Sherraton Hotel	\$ 141,248.46	\$ 158,643.60	\$ 6,949.20	\$ 17,961.19	\$ 23,741.84	\$ 8,526.57	\$ 1,336.99	\$ 925.86	\$ 2,414.91	\$ 12,906.00	\$ 1,333.15	\$ 176,859.37	\$ 197,494.77	\$ 352.79	\$ 750,694.70
12	Municipal Auditorium	\$ 71,325.89	\$ 84,689.58	\$ 3,709.32	\$ 9,583.60	\$ 2,974.50	\$ 1,006.07	\$ 714.56	\$ 491.96	\$ 1,289.17	\$ -	\$ 1,808.34	\$ 29,739.96	\$ 34,993.66	\$ 128.83	\$ 242,455.44
21	Hermitage Hotel	\$ 68,225.26	\$ 74,385.96	\$ 3,258.72	\$ 8,422.43	\$ 7,991.63	\$ 2,961.82	\$ 627.05	\$ 434.15	\$ 1,132.40	\$ 2,906.04	\$ 4,737.50	\$ 73,452.13	\$ 47,586.18	\$ 86.88	\$ 296,208.15
24	Criminal Justice Center	\$ 115,362.75	\$ 122,301.36	\$ 5,358.12	\$ 13,757.67	\$ 17,394.07	\$ 7,011.28	\$ 1,054.67	\$ 713.86	\$ 1,861.94	\$ -	\$ 6,344.10	\$ 165,816.20	\$ 104,267.21	\$ 235.38	\$ 561,478.61
25	501 Union Association	\$ 26,899.67	\$ 29,987.04	\$ 1,313.64	\$ 3,395.13	\$ 3,114.09	\$ 1,301.02	\$ 252.81	\$ 175.01	\$ 456.47	\$ 2,441.04	\$ 1,420.41	\$ 34,722.48	\$ 17,748.34	\$ 55.29	\$ 123,282.44
28	Sun Trust Bank	\$ 235,090.33	\$ -	\$ -	\$ -	\$ 10,479.11	\$ 3,980.20	\$ 836.96	\$ 532.24	\$ -	\$ -	\$ 518.46	\$ 116,504.95	\$ 66,555.74	\$ 186.05	\$ 434,684.04
29	Fifth Third Financial Center	\$ 82,208.83	\$ 110,993.16	\$ 4,860.24	\$ 12,561.74	\$ 8,942.94	\$ 3,116.61	\$ 935.20	\$ 647.53	\$ 1,688.95	\$ 8,253.96	\$ 1,727.93	\$ 113,996.80	\$ -	\$ -	\$ 349,933.89
32	Renaissance Hotel	\$ 169,446.51	\$ 184,996.80	\$ 8,104.20	\$ 20,946.21	\$ 28,080.50	\$ 10,926.03	\$ 1,559.22	\$ 1,079.73	\$ 2,816.23	\$ 15,345.96	\$ -	\$ 255,353.46	\$ 189,641.58	\$ 331.21	\$ 888,627.64
33	Convention Center	\$ 208,644.04	\$ 234,213.84	\$ 10,259.64	\$ 26,517.23	\$ 25,281.11	\$ 9,377.89	\$ 1,973.90	\$ 1,366.91	\$ 3,565.24	\$ -	\$ -	\$ 260,419.72	\$ 127,515.71	\$ 255.67	\$ 909,390.90
34	Renaissance Office Tower	\$ 31,685.50	\$ 42,779.76	\$ 1,873.20	\$ 4,879.98	\$ 3,457.05	\$ 1,068.81	\$ 350.39	\$ 249.58	\$ 650.96	\$ 2,384.04	\$ -	\$ 43,258.39	\$ -	\$ -	\$ 132,637.66
35	St. Mary of the Seven	\$ 10,468.32	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 348.96	\$ -	\$ -	\$ -	\$ -	\$ 10,817.28
36	Nashville City Center	\$ 66,996.59	\$ 90,454.68	\$ 3,960.84	\$ 10,227.56	\$ 12,069.06	\$ 4,103.76	\$ 764.70	\$ 527.71	\$ 1,376.42	\$ 7,905.96	\$ 32.80	\$ 154,275.63	\$ -	\$ -	\$ 352,695.71
38	Wildhorse Saloon	\$ 26,311.32	\$ 31,474.06	\$ 1,378.62	\$ 3,588.75	\$ 7,027.44	\$ 2,341.65	\$ 258.47	\$ 184.64	\$ 478.56	\$ 1,917.96	\$ 583.91	\$ 58,616.81	\$ 40,257.95	\$ 62.46	\$ 174,482.60
39	Ryman Auditorium	\$ 25,855.19	\$ 31,016.82	\$ 1,358.49	\$ 3,523.57	\$ 8,168.03	\$ 2,767.61	\$ 258.19	\$ 181.28	\$ 472.31	\$ 1,860.00	\$ -	\$ 62,997.08	\$ 53,742.89	\$ 76.83	\$ 192,278.29
40	Sommet Center	\$ 277,096.43	\$ 335,449.68	\$ 14,691.84	\$ 37,972.79	\$ 55,803.88	\$ 22,564.60	\$ 2,826.72	\$ 1,957.41	\$ 5,105.50	\$ -	\$ 7,742.71	\$ 535,973.09	\$ 288,347.82	\$ 419.25	\$ 1,585,951.72
41	LP Field	\$ 118,229.34	\$ 159,625.92	\$ 6,989.76	\$ 17,815.26	\$ 14,513.17	\$ 3,870.64	\$ 1,410.39	\$ 931.25	\$ 2,428.96	\$ -	\$ 889.30	\$ 184,095.39	\$ -	\$ -	\$ 510,799.38
43	Hume Fogg School	\$ 39,373.31	\$ 45,561.96	\$ 1,995.72	\$ 5,158.09	\$ 4,623.10	\$ 1,927.97	\$ 383.93	\$ 265.89	\$ 693.51	\$ -	\$ 1,101.97	\$ 40,575.34	\$ 42,777.66	\$ 92.44	\$ 184,530.89
44	Schermerhorn Symphony	\$ 159,324.00	\$ -	\$ -	\$ -	\$ 7,948.10	\$ 3,042.92	\$ 551.15	\$ 383.82	\$ -	\$ -	\$ -	\$ 76,182.49	\$ 59,305.09	\$ 172.98	\$ 306,910.55
45	Nashville Public Library	\$ 72,675.36	\$ -	\$ -	\$ -	\$ 15,135.72	\$ 5,630.83	\$ 858.03	\$ 597.48	\$ -	\$ -	\$ 1,109.56	\$ 168,619.22	\$ 48,143.41	\$ 96.72	\$ 312,866.33
49	Viridian Residential	\$ 129,822.72	\$ -	\$ -	\$ -	\$ 3,593.19	\$ 1,081.60	\$ 430.56	\$ 289.35	\$ -	\$ -	\$ 4,365.27	\$ 45,945.51	\$ -	\$ -	\$ 185,528.20
51	State Government of TN	\$ 1,639,133.88	\$ 1,120,236.48	\$ -	\$ -	\$ 145,313.08	\$ 55,064.84	\$ -	\$ 7,210.90	\$ 18,807.97	\$ -	\$ 68,228.22	\$ 1,352,585.29	\$ 926,645.22	\$ 1,855.77	\$ 5,335,081.65
	Grand Totals:	\$ 4,069,678.72	\$ 3,261,294.46	\$ 93,779.31	\$ 242,067.14	\$ 455,422.88	\$ 170,128.50	\$ 20,802.51	\$ 21,507.10	\$ 51,396.40	\$ 69,639.00	\$ 128,607.32	\$ 4,383,058.87	\$ 2,579,892.30	\$ 5,013.39	\$ 15,552,287.90
	Rate Calculation Totals:	\$ 4,564,390.38	\$ 4,504,493.40	\$ 148,235.76	\$ 407,064.96	\$ 459,983.30	\$ 170,198.61	\$ 28,522.35	\$ 19,749.61	\$ 51,512.73	\$ 69,639.00	\$ 128,607.32	\$ 4,399,439.73	\$ 2,593,991.41	\$ 5,022.31	\$ 17,550,850.87
	Deviation:	\$ (494,711.66)	\$ (1,243,198.94)	\$ (54,456.45)	\$ (164,997.82)	\$ (4,560.42)	\$ (70.11)	\$ (7,719.84)	\$ 1,757.49	\$ (116.33)	\$ -	\$ -	\$ (16,380.86)	\$ (14,099.11)	\$ (8.92)	\$ (1,998,562.97)

*Metro Nashville District Energy System
FY 10 - 11*

Chilled Water and Steam Revenues

July, 10

Customer Number	Customer Name	Capacity	Operating	EDS Improvement	Metro Incremental	Water And Sewer	Chemical Treatment	Engineering	Insurance	EDS Electricity	EDS Maint Costs Alloc	TIFS	Electricity	Natural Gas	Propane	Total
2	A. A. Birch	\$ 13,087.07	\$ 14,538.94	\$ 636.87	\$ 1,748.88	\$ 4,180.43	\$ 700.65	\$ 95.67	\$ -	\$ 262.67	\$ -	\$ 1,124.31	\$ 26,999.34	\$ 10,635.70	\$ -	\$ 74,010.53
4	Metro Courthouse	\$ 6,195.40	\$ 6,784.13	\$ 297.19	\$ 816.09	\$ 1,314.94	\$ 201.37	\$ 44.65	\$ -	\$ 122.58	\$ -	\$ 527.91	\$ 12,102.95	\$ 1,111.36	\$ -	\$ 29,518.57
7	Parkway Towers	\$ 5,648.20	\$ 6,582.06	\$ 288.30	\$ 791.67	\$ 1,037.88	\$ 151.47	\$ 43.31	\$ -	\$ 118.91	\$ 620.00	\$ -	\$ 10,970.50	\$ -	\$ -	\$ 26,252.30
9	Wachovia	\$ 2,081.89	\$ 2,385.72	\$ 104.50	\$ 286.96	\$ 1,209.78	\$ 199.82	\$ 15.69	\$ -	\$ 43.10	\$ 222.83	\$ 41.28	\$ 8,371.72	\$ 2,732.38	\$ -	\$ 17,695.67
10	401 Union	\$ 2,877.56	\$ 3,416.13	\$ 149.62	\$ 410.86	\$ -	\$ -	\$ 22.48	\$ -	\$ 61.71	\$ 271.26	\$ -	\$ -	\$ -	\$ -	\$ 7,209.62
11	Sheraton Hotel	\$ 11,917.77	\$ 13,220.30	\$ 579.10	\$ 1,590.26	\$ 4,503.58	\$ 762.17	\$ 86.99	\$ -	\$ 238.86	\$ 1,075.50	\$ 184.28	\$ 27,688.90	\$ 12,322.52	\$ -	\$ 74,170.23
12	Municipal Auditorium	\$ 6,055.47	\$ 7,089.47	\$ 310.51	\$ 852.69	\$ 824.54	\$ 121.31	\$ 46.64	\$ -	\$ 128.07	\$ -	\$ -	\$ 8,531.32	\$ 113.91	\$ -	\$ 24,073.93
21	Hermitage Hotel	\$ 5,756.48	\$ 6,198.83	\$ 271.56	\$ 745.71	\$ 1,217.50	\$ 196.47	\$ 40.80	\$ -	\$ 112.01	\$ 242.17	\$ 347.61	\$ 9,303.29	\$ 2,206.49	\$ -	\$ 26,638.92
24	Criminal Justice Center	\$ 9,733.67	\$ 10,191.78	\$ 446.51	\$ 1,226.12	\$ 2,291.95	\$ 369.23	\$ 67.08	\$ -	\$ 184.16	\$ -	\$ 499.31	\$ 17,631.92	\$ 4,080.39	\$ -	\$ 46,722.12
25	501 Union Association	\$ 2,269.64	\$ 2,498.92	\$ 109.47	\$ 300.60	\$ 346.24	\$ 50.53	\$ 16.45	\$ -	\$ 45.15	\$ 203.42	\$ 118.13	\$ 3,659.77	\$ -	\$ -	\$ 9,618.32
28	Sun Trust Bank	\$ 21,480.05	\$ -	\$ -	\$ -	\$ 1,656.65	\$ 241.78	\$ 58.51	\$ -	\$ -	\$ -	\$ 125.51	\$ 17,510.97	\$ -	\$ -	\$ 41,073.47
29	Fifth Third Financial Center	\$ 6,936.33	\$ 9,249.43	\$ 405.02	\$ 1,112.20	\$ 1,466.02	\$ 213.95	\$ 60.85	\$ -	\$ 167.05	\$ 687.83	\$ 178.04	\$ 15,496.00	\$ -	\$ -	\$ 35,972.72
32	Renaissance Hotel	\$ 14,296.96	\$ 15,416.40	\$ 675.35	\$ 1,854.55	\$ 4,254.08	\$ 689.76	\$ 101.45	\$ -	\$ 278.55	\$ 1,278.83	\$ -	\$ 31,885.09	\$ 8,094.20	\$ -	\$ 78,825.22
33	Convention Center	\$ 17,604.25	\$ 19,517.82	\$ 854.97	\$ 2,347.80	\$ 3,730.31	\$ 582.66	\$ 128.43	\$ -	\$ 352.63	\$ -	\$ -	\$ 32,170.06	\$ 4,492.16	\$ -	\$ 81,781.09
34	Renaissance Office Tower	\$ 2,673.45	\$ 3,564.98	\$ 156.10	\$ 428.67	\$ 775.07	\$ 113.11	\$ 23.45	\$ -	\$ 64.39	\$ 198.67	\$ -	\$ 8,192.53	\$ -	\$ -	\$ 16,190.42
35	St. Mary of the Seven	\$ 872.36	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 29.08	\$ -	\$ -	\$ -	\$ -	\$ 901.44
36	Nashville City Center	\$ 5,652.81	\$ 7,537.89	\$ 330.07	\$ 906.40	\$ 2,131.49	\$ 311.08	\$ 49.59	\$ -	\$ 136.14	\$ 658.83	\$ -	\$ 22,530.12	\$ -	\$ -	\$ 40,244.42
38	Wildhorse Saloon	\$ 2,104.31	\$ 2,468.38	\$ 108.12	\$ 296.88	\$ 1,382.02	\$ 227.53	\$ 16.24	\$ -	\$ 44.59	\$ 159.83	\$ 56.38	\$ 9,703.35	\$ 3,034.91	\$ -	\$ 19,602.54
39	Ryman Auditorium	\$ 2,247.49	\$ 2,654.45	\$ 116.26	\$ 319.26	\$ 1,502.17	\$ 252.38	\$ 17.47	\$ -	\$ 47.95	\$ 155.00	\$ -	\$ 9,584.59	\$ 3,894.29	\$ -	\$ 20,791.31
40	Sommet Center	\$ 23,379.89	\$ 27,954.14	\$ 1,224.32	\$ 3,362.06	\$ 6,837.10	\$ 1,131.38	\$ 183.92	\$ -	\$ 504.97	\$ -	\$ 271.57	\$ 46,914.66	\$ 15,688.56	\$ -	\$ 127,452.57
41	LP Field	\$ 9,975.54	\$ 13,302.16	\$ 582.48	\$ 1,599.52	\$ 3,431.46	\$ 500.80	\$ 87.51	\$ -	\$ 240.25	\$ -	\$ 256.05	\$ 36,270.96	\$ -	\$ -	\$ 66,246.73
43	Hume Fogg School	\$ 3,322.11	\$ 3,796.83	\$ 166.31	\$ 456.69	\$ 405.39	\$ 59.16	\$ 24.98	\$ -	\$ 68.59	\$ -	\$ 79.14	\$ 4,285.01	\$ -	\$ -	\$ 12,664.21
44	Schermerhorn Symphony	\$ 13,277.00	\$ -	\$ -	\$ -	\$ 1,032.02	\$ 150.62	\$ 35.91	\$ -	\$ -	\$ -	\$ -	\$ 10,908.62	\$ -	\$ -	\$ 25,404.17
45	Nashville Public Library	\$ 6,056.28	\$ -	\$ -	\$ -	\$ 2,198.25	\$ 333.29	\$ 55.87	\$ -	\$ -	\$ -	\$ 80.07	\$ 20,867.82	\$ 1,465.24	\$ -	\$ 31,056.82
49	Viridian Residential	\$ 10,818.56	\$ -	\$ -	\$ -	\$ 756.04	\$ 110.34	\$ 27.09	\$ -	\$ -	\$ -	\$ -	\$ 7,991.42	\$ -	\$ -	\$ 19,703.45
51	State Government of TN	\$ 136,594.49	\$ 93,353.04	\$ -	\$ -	\$ 22,742.95	\$ 3,642.47	\$ -	\$ -	\$ 1,860.28	\$ -	\$ 3,219.46	\$ 179,018.39	\$ 37,978.55	\$ -	\$ 478,409.63
	Grand Totals:	\$ 342,915.03	\$ 271,721.80	\$ 7,812.63	\$ 21,453.87	\$ 71,227.86	\$ 11,313.33	\$ 1,351.03	\$ -	\$ 5,082.61	\$ 5,803.25	\$ 7,109.05	\$ 578,589.30	\$ 107,850.66	\$ -	\$ 1,432,230.42
	Rate Calculation Totals:	\$ 383,411.64	\$ 375,374.45	\$ 12,352.98	\$ 33,922.08	\$ 71,243.67	\$ 11,318.21	\$ 1,855.83	\$ -	\$ 5,095.08	\$ 5,803.25	\$ 7,109.05	\$ 578,756.65	\$ 107,850.65	\$ -	\$ 1,594,093.54
	Deviation:	\$ (40,496.61)	\$ (103,652.65)	\$ (4,540.35)	\$ (12,468.21)	\$ (15.81)	\$ (4.88)	\$ (504.80)	\$ -	\$ (12.47)	\$ -	\$ -	\$ (167.35)	\$ 0.01	\$ -	\$ (161,863.12)

Metro Nashville District Energy System
FY 10 - 11

Chilled Water and Steam Revenues

August, 10

Customer Number	Customer Name	Capacity	Operating	EDS Improvement	Metro Incremental	Water And Sewer	Chemical Treatment	Engineering	Insurance	EDS Electricity	EDS Maint Costs Alloc	TIFS	Electricity	Natural Gas	Propane	Total
2	A. A. Birch	\$ 12,721.21	\$ 14,538.94	\$ 636.87	\$ 1,748.88	\$ 5,246.67	\$ 892.23	\$ 95.67	\$ -	\$ 221.78	\$ -	\$ 1,159.14	\$ 29,552.58	\$ 17,015.65	\$ -	\$ 83,829.62
4	Metro Courthouse	\$ 6,022.20	\$ 6,784.13	\$ 297.19	\$ 816.09	\$ 1,302.81	\$ 197.05	\$ 44.65	\$ -	\$ 103.49	\$ -	\$ 532.30	\$ 12,191.93	\$ 1,176.06	\$ -	\$ 29,467.90
7	Parkway Towers	\$ 5,490.30	\$ 6,582.06	\$ 288.30	\$ 791.67	\$ 1,091.57	\$ 157.19	\$ 43.31	\$ -	\$ 100.40	\$ 620.00	\$ -	\$ 11,783.62	\$ -	\$ -	\$ 26,948.42
9	Wachovia	\$ 2,023.68	\$ 2,385.72	\$ 104.50	\$ 286.96	\$ 1,038.41	\$ 165.37	\$ 15.69	\$ -	\$ 36.39	\$ 222.83	\$ 30.59	\$ 8,072.87	\$ 1,970.62	\$ -	\$ 16,353.63
10	401 Union	\$ 2,797.11	\$ 3,416.13	\$ 149.62	\$ 410.86	\$ -	\$ -	\$ 22.48	\$ -	\$ 52.11	\$ 271.26	\$ -	\$ -	\$ -	\$ -	\$ 7,119.57
11	Sheraton Hotel	\$ 11,584.60	\$ 13,220.30	\$ 579.10	\$ 1,590.26	\$ 4,214.86	\$ 692.85	\$ 86.99	\$ -	\$ 201.67	\$ 1,075.50	\$ 211.21	\$ 28,478.66	\$ 10,692.98	\$ -	\$ 72,628.98
12	Municipal Auditorium	\$ 5,886.18	\$ 7,089.47	\$ 310.51	\$ 852.69	\$ 542.48	\$ 79.09	\$ 46.64	\$ -	\$ 108.14	\$ -	\$ 160.99	\$ 5,663.12	\$ 121.23	\$ -	\$ 20,860.54
21	Hermitage Hotel	\$ 5,595.55	\$ 6,198.83	\$ 271.56	\$ 745.71	\$ 1,306.47	\$ 207.28	\$ 40.80	\$ -	\$ 94.56	\$ 242.17	\$ 374.11	\$ 10,310.84	\$ 2,382.59	\$ -	\$ 27,770.47
24	Criminal Justice Center	\$ 9,461.56	\$ 10,191.78	\$ 446.51	\$ 1,226.12	\$ 2,438.06	\$ 391.54	\$ 67.08	\$ -	\$ 155.49	\$ -	\$ 466.42	\$ 18,302.44	\$ 5,036.20	\$ -	\$ 48,183.20
25	501 Union Association	\$ 2,206.20	\$ 2,498.92	\$ 109.47	\$ 300.60	\$ 500.65	\$ 72.09	\$ 16.45	\$ -	\$ 38.12	\$ 203.42	\$ 18.78	\$ 5,404.59	\$ -	\$ -	\$ 11,369.29
28	Sun Trust Bank	\$ 21,480.05	\$ -	\$ -	\$ -	\$ 1,852.55	\$ 266.77	\$ 58.48	\$ -	\$ -	\$ -	\$ 41.84	\$ 19,998.49	\$ -	\$ -	\$ 43,698.18
29	Fifth Third Financial Center	\$ 6,742.42	\$ 9,249.43	\$ 405.02	\$ 1,112.20	\$ 1,526.21	\$ 219.78	\$ 60.85	\$ -	\$ 141.04	\$ 687.83	\$ 143.93	\$ 16,475.55	\$ -	\$ -	\$ 36,764.26
32	Renaissance Hotel	\$ 13,897.29	\$ 15,416.40	\$ 675.35	\$ 1,854.55	\$ 4,279.11	\$ 677.88	\$ 101.45	\$ -	\$ 235.18	\$ 1,278.83	\$ -	\$ 33,970.88	\$ 7,678.37	\$ -	\$ 80,065.29
33	Convention Center	\$ 17,112.10	\$ 19,517.82	\$ 854.97	\$ 2,347.80	\$ 3,497.33	\$ 528.87	\$ 128.43	\$ -	\$ 297.73	\$ -	\$ -	\$ 32,749.72	\$ 3,143.73	\$ -	\$ 80,178.50
34	Renaissance Office Tower	\$ 2,598.71	\$ 3,564.98	\$ 156.10	\$ 428.67	\$ 772.22	\$ 111.20	\$ 23.45	\$ -	\$ 54.36	\$ 198.67	\$ -	\$ 8,336.18	\$ -	\$ -	\$ 16,244.54
35	St. Mary of the Seven	\$ 872.36	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 29.08	\$ -	\$ -	\$ -	\$ -	\$ 901.44
36	Nashville City Center	\$ 5,494.78	\$ 7,537.89	\$ 330.07	\$ 906.40	\$ 2,131.80	\$ 306.98	\$ 49.59	\$ -	\$ 114.94	\$ 658.83	\$ -	\$ 23,012.94	\$ -	\$ -	\$ 40,544.22
38	Wildhorse Saloon	\$ 2,168.31	\$ 2,636.88	\$ 115.50	\$ 317.14	\$ 1,527.21	\$ 252.80	\$ 17.35	\$ -	\$ 40.22	\$ 159.83	\$ 56.18	\$ 9,973.07	\$ 4,091.79	\$ -	\$ 21,356.28
39	Ryman Auditorium	\$ 2,184.66	\$ 2,654.45	\$ 116.26	\$ 319.26	\$ 1,643.93	\$ 275.43	\$ 17.47	\$ -	\$ 40.48	\$ 155.00	\$ -	\$ 10,078.84	\$ 4,816.91	\$ -	\$ 22,302.69
40	Sommet Center	\$ 22,726.27	\$ 27,954.14	\$ 1,224.32	\$ 3,362.06	\$ 5,811.38	\$ 930.70	\$ 183.92	\$ -	\$ 426.36	\$ -	\$ 536.64	\$ 44,138.12	\$ 11,682.44	\$ -	\$ 118,976.35
41	LP Field	\$ 9,696.67	\$ 13,302.16	\$ 582.48	\$ 1,599.52	\$ 3,676.07	\$ 529.36	\$ 87.51	\$ -	\$ 202.84	\$ -	\$ 367.98	\$ 39,683.51	\$ -	\$ -	\$ 69,728.10
43	Hume Fogg School	\$ 3,229.23	\$ 3,796.83	\$ 166.31	\$ 456.69	\$ 460.51	\$ 66.31	\$ 24.98	\$ -	\$ 57.92	\$ -	\$ 73.60	\$ 4,971.21	\$ -	\$ -	\$ 13,303.59
44	Schermerhorn Symphony	\$ 13,277.00	\$ -	\$ -	\$ -	\$ 1,063.89	\$ 153.20	\$ 35.89	\$ -	\$ -	\$ -	\$ -	\$ 11,484.80	\$ -	\$ -	\$ 26,014.78
45	Nashville Public Library	\$ 6,056.28	\$ -	\$ -	\$ -	\$ 2,013.44	\$ 290.29	\$ 55.84	\$ -	\$ -	\$ -	\$ 84.28	\$ 21,665.73	\$ 43.64	\$ -	\$ 30,209.50
49	Viridian Residential	\$ 10,818.56	\$ -	\$ -	\$ -	\$ 768.72	\$ 110.70	\$ 27.07	\$ -	\$ -	\$ -	\$ -	\$ 8,298.43	\$ -	\$ -	\$ 20,023.48
51	State Government of TN	\$ 136,594.49	\$ 93,353.04	\$ -	\$ -	\$ 23,501.61	\$ 3,737.48	\$ -	\$ -	\$ 1,570.64	\$ -	\$ 3,862.11	\$ 183,715.33	\$ 43,966.72	\$ -	\$ 490,301.42
Grand Totals:		\$ 338,737.77	\$ 271,890.30	\$ 7,820.01	\$ 21,474.13	\$ 72,207.96	\$ 11,312.44	\$ 1,352.04	\$ -	\$ 4,293.86	\$ 5,803.25	\$ 8,120.10	\$ 598,313.45	\$ 113,818.93	\$ -	\$ 1,455,144.24
Rate Calculation Totals:		\$ 376,511.64	\$ 375,374.45	\$ 12,352.98	\$ 33,922.08	\$ 72,223.71	\$ 11,318.21	\$ 1,855.83	\$ -	\$ 4,301.78	\$ 5,803.25	\$ 8,120.10	\$ 598,483.14	\$ 113,818.93	\$ -	\$ 1,614,086.10
Deviation:		\$ (37,773.87)	\$ (103,484.15)	\$ (4,532.97)	\$ (12,447.95)	\$ (15.75)	\$ (5.77)	\$ (503.79)	\$ -	\$ (7.92)	\$ -	\$ -	\$ (169.69)	\$ -	\$ -	\$ (158,941.86)

Metro Nashville District Energy System
FY 10 - 11

Chilled Water and Steam Revenues

September, 10

Customer Number	Customer Name	Capacity	Operating	EDS Improvement	Metro Incremental	Water And Sewer	Chemical Treatment	Engineering	Insurance	EDS Electricity	EDS Maint Costs Alloc	TIFS	Electricity	Natural Gas	Propane	Total
2	A. A. Birch	\$ 12,721.21	\$ 14,538.94	\$ 636.87	\$ 1,748.88	\$ 3,741.99	\$ 826.11	\$ 95.67	\$ -	\$ 215.45	\$ -	\$ 1,344.28	\$ 22,158.98	\$ 16,462.05	\$ -	\$ 74,490.43
4	Metro Courthouse	\$ 6,022.20	\$ 6,784.13	\$ 297.19	\$ 816.09	\$ 959.29	\$ 193.12	\$ 44.65	\$ -	\$ 100.54	\$ -	\$ 632.33	\$ 8,507.18	\$ 1,793.03	\$ -	\$ 26,149.75
7	Parkway Towers	\$ 5,490.30	\$ 6,582.06	\$ 288.30	\$ 791.67	\$ 862.09	\$ 161.17	\$ 43.31	\$ -	\$ 97.53	\$ 620.00	\$ 75.90	\$ 9,521.76	\$ -	\$ -	\$ 24,534.09
9	Wachovia	\$ 2,023.68	\$ 2,385.72	\$ 104.50	\$ 286.96	\$ 618.96	\$ 127.80	\$ 15.69	\$ -	\$ 35.35	\$ 222.83	\$ -	\$ 5,004.69	\$ 1,572.83	\$ -	\$ 12,399.01
10	401 Union	\$ 2,797.11	\$ 3,416.13	\$ 149.62	\$ 410.86	\$ -	\$ -	\$ 22.48	\$ -	\$ 50.62	\$ 271.26	\$ -	\$ -	\$ -	\$ -	\$ 7,118.08
11	Sheraton Hotel	\$ 11,584.60	\$ 13,220.30	\$ 579.10	\$ 1,590.26	\$ 2,919.21	\$ 626.16	\$ 86.99	\$ -	\$ 195.91	\$ 1,075.50	\$ 291.32	\$ 20,059.57	\$ 10,461.45	\$ -	\$ 62,690.37
12	Municipal Auditorium	\$ 5,886.18	\$ 7,089.47	\$ 310.51	\$ 852.69	\$ 299.45	\$ 56.37	\$ 46.64	\$ -	\$ 105.05	\$ -	\$ 243.79	\$ 3,248.73	\$ 50.38	\$ -	\$ 18,189.26
21	Hermitage Hotel	\$ 5,595.55	\$ 6,198.83	\$ 271.56	\$ 745.71	\$ 898.07	\$ 183.96	\$ 40.80	\$ -	\$ 91.87	\$ 242.17	\$ 377.18	\$ 7,486.28	\$ 2,089.08	\$ -	\$ 24,221.06
24	Criminal Justice Center	\$ 9,461.56	\$ 10,191.78	\$ 446.51	\$ 1,226.12	\$ 1,801.09	\$ 369.23	\$ 67.08	\$ -	\$ 151.05	\$ -	\$ 529.20	\$ 14,968.78	\$ 4,228.43	\$ -	\$ 43,440.83
25	501 Union Association	\$ 2,206.20	\$ 2,498.92	\$ 109.47	\$ 300.60	\$ 240.52	\$ 44.97	\$ 16.45	\$ -	\$ 37.03	\$ 203.42	\$ 123.43	\$ 2,656.57	\$ -	\$ -	\$ 8,437.58
28	Sun Trust Bank	\$ 21,480.05	\$ -	\$ -	\$ -	\$ 1,147.16	\$ 214.46	\$ 58.48	\$ -	\$ -	\$ -	\$ -	\$ 12,670.32	\$ -	\$ -	\$ 35,570.47
29	Fifth Third Financial Center	\$ 6,742.42	\$ 9,249.43	\$ 405.02	\$ 1,112.20	\$ 1,174.67	\$ 219.61	\$ 60.85	\$ -	\$ 137.02	\$ 687.83	\$ 127.93	\$ 12,974.20	\$ -	\$ -	\$ 32,891.18
32	Renaissance Hotel	\$ 13,897.29	\$ 15,416.40	\$ 675.35	\$ 1,854.55	\$ 3,213.95	\$ 669.19	\$ 101.45	\$ -	\$ 228.47	\$ 1,278.83	\$ -	\$ 25,144.18	\$ 8,890.73	\$ -	\$ 71,370.39
33	Convention Center	\$ 17,112.10	\$ 19,517.82	\$ 854.97	\$ 2,347.80	\$ 4,465.81	\$ 891.83	\$ 128.43	\$ -	\$ 289.24	\$ -	\$ -	\$ 40,698.75	\$ 7,407.11	\$ -	\$ 93,713.86
34	Renaissance Office Tower	\$ 2,598.71	\$ 3,564.98	\$ 156.10	\$ 428.67	\$ 443.32	\$ 82.88	\$ 23.45	\$ -	\$ 52.81	\$ 198.67	\$ -	\$ 4,896.46	\$ -	\$ -	\$ 12,446.05
35	St. Mary of the Seven	\$ 872.36	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 29.08	\$ -	\$ -	\$ -	\$ -	\$ 901.44
36	Nashville City Center	\$ 5,494.78	\$ 7,537.89	\$ 330.07	\$ 906.40	\$ 1,557.33	\$ 291.15	\$ 49.59	\$ -	\$ 111.67	\$ 658.83	\$ -	\$ 17,200.75	\$ -	\$ -	\$ 34,138.46
38	Wildhorse Saloon	\$ 2,168.31	\$ 2,636.88	\$ 115.50	\$ 317.14	\$ 949.73	\$ 202.67	\$ 17.35	\$ -	\$ 39.07	\$ 159.83	\$ 59.69	\$ 6,685.38	\$ 3,266.80	\$ -	\$ 16,618.35
39	Ryman Auditorium	\$ 2,184.66	\$ 2,654.45	\$ 116.26	\$ 319.26	\$ 1,113.34	\$ 241.18	\$ 17.47	\$ -	\$ 39.34	\$ 155.00	\$ -	\$ 7,291.87	\$ 4,297.69	\$ -	\$ 18,430.52
40	Sommet Center	\$ 22,726.27	\$ 27,954.14	\$ 1,224.32	\$ 3,362.06	\$ 6,672.48	\$ 1,404.06	\$ 183.92	\$ -	\$ 414.20	\$ -	\$ 191.66	\$ 49,968.04	\$ 20,376.17	\$ -	\$ 134,477.32
41	LP Field	\$ 9,696.67	\$ 13,302.16	\$ 582.48	\$ 1,599.52	\$ 2,434.16	\$ 455.08	\$ 87.51	\$ -	\$ 197.06	\$ -	\$ 149.49	\$ 26,885.34	\$ -	\$ -	\$ 55,389.47
43	Hume Fogg School	\$ 3,229.23	\$ 3,796.83	\$ 166.31	\$ 456.69	\$ 329.61	\$ 61.62	\$ 24.98	\$ -	\$ 56.26	\$ -	\$ 73.60	\$ 3,640.55	\$ -	\$ -	\$ 11,835.68
44	Schermerhorn Symphony	\$ 13,277.00	\$ -	\$ -	\$ -	\$ 809.68	\$ 151.37	\$ 35.89	\$ -	\$ -	\$ -	\$ -	\$ 8,942.89	\$ -	\$ -	\$ 23,216.83
45	Nashville Public Library	\$ 6,056.28	\$ -	\$ -	\$ -	\$ 1,604.01	\$ 299.88	\$ 55.84	\$ -	\$ -	\$ -	\$ 84.28	\$ 17,716.30	\$ -	\$ -	\$ 25,816.59
49	Viridian Residential	\$ 10,818.56	\$ -	\$ -	\$ -	\$ 552.32	\$ 103.26	\$ 27.07	\$ -	\$ -	\$ -	\$ 48.68	\$ 6,100.40	\$ -	\$ -	\$ 17,650.29
51	State Government of TN	\$ 136,594.49	\$ 93,353.04	\$ -	\$ -	\$ 16,721.44	\$ 3,435.38	\$ -	\$ -	\$ 1,525.83	\$ -	\$ 4,871.40	\$ 137,829.83	\$ 40,236.61	\$ -	\$ 434,568.02
	Grand Totals:	\$ 338,737.77	\$ 271,890.30	\$ 7,820.01	\$ 21,474.13	\$ 55,529.68	\$ 11,312.51	\$ 1,352.04	\$ -	\$ 4,171.37	\$ 5,803.25	\$ 9,224.16	\$ 472,257.80	\$ 121,132.36	\$ -	\$ 1,320,705.38
	Rate Calculation Totals:	\$ 376,511.64	\$ 375,374.45	\$ 12,352.98	\$ 33,922.08	\$ 55,547.05	\$ 11,318.21	\$ 1,855.83	\$ -	\$ 4,179.14	\$ 5,803.25	\$ 9,224.16	\$ 472,400.42	\$ 121,174.72	\$ -	\$ 1,479,663.93
	Deviation:	\$ (37,773.87)	\$ (103,484.15)	\$ (4,532.97)	\$ (12,447.95)	\$ (17.37)	\$ (5.70)	\$ (503.79)	\$ -	\$ (7.77)	\$ -	\$ -	\$ (142.62)	\$ (42.36)	\$ -	\$ (158,958.55)

Metro Nashville District Energy System
FY 10 - 11

Chilled Water and Steam Revenues

October, 10

Customer Number	Customer Name	Capacity	Operating	EDS Improvement	Micro Incremental	Water And Sewer	Chemical Treatment	Engineering	Insurance	EDS Electricity	EDS Maint Costs Alloc	TIFS	Electricity	Natural Gas	Propane	Total
2	A. A. Birch	\$ 12,585.47	\$ 14,538.94	\$ 636.87	\$ 1,748.88	\$ 1,233.11	\$ 759.14	\$ 95.67	\$ -	\$ 227.00	\$ -	\$ 1,386.31	\$ 14,078.04	\$ 16,544.68	\$ -	\$ 63,834.11
4	Metro Courthouse	\$ 5,957.94	\$ 6,784.13	\$ 297.19	\$ 816.09	\$ 320.61	\$ 173.18	\$ 44.65	\$ -	\$ 105.93	\$ -	\$ 789.52	\$ 4,524.92	\$ 1,906.78	\$ -	\$ 21,720.94
7	Parkway Towers	\$ 5,431.72	\$ 6,582.06	\$ 288.30	\$ 791.67	\$ 353.90	\$ 169.91	\$ 43.31	\$ -	\$ 102.76	\$ 620.00	\$ -	\$ 5,754.57	\$ -	\$ -	\$ 20,138.20
9	Wachovia	\$ 2,002.09	\$ 2,385.72	\$ 104.50	\$ 286.96	\$ 238.90	\$ 147.50	\$ 15.69	\$ -	\$ 37.25	\$ 222.83	\$ -	\$ 2,712.09	\$ 3,247.81	\$ -	\$ 11,401.34
10	401 Union	\$ 2,767.27	\$ 3,416.13	\$ 149.62	\$ 410.86	\$ -	\$ -	\$ 22.48	\$ -	\$ 53.33	\$ 271.26	\$ -	\$ -	\$ -	\$ -	\$ 7,090.95
11	Sheraton Hotel	\$ 11,461.00	\$ 13,220.30	\$ 579.10	\$ 1,590.26	\$ 1,021.60	\$ 638.56	\$ 86.99	\$ -	\$ 206.41	\$ 1,075.50	\$ 65.25	\$ 11,318.84	\$ 14,660.67	\$ -	\$ 55,924.48
12	Municipal Auditorium	\$ 5,823.37	\$ 7,089.47	\$ 310.51	\$ 852.69	\$ 95.70	\$ 46.67	\$ 46.64	\$ -	\$ 110.68	\$ -	\$ 444.17	\$ 1,530.69	\$ 70.77	\$ -	\$ 16,421.36
21	Hermitage Hotel	\$ 5,535.84	\$ 6,198.83	\$ 271.56	\$ 745.71	\$ 349.30	\$ 199.12	\$ 40.80	\$ -	\$ 96.79	\$ 242.17	\$ 366.33	\$ 4,557.04	\$ 3,110.20	\$ -	\$ 21,713.69
24	Criminal Justice Center	\$ 9,360.61	\$ 10,191.78	\$ 446.51	\$ 1,226.12	\$ 757.08	\$ 407.58	\$ 67.08	\$ -	\$ 159.15	\$ -	\$ 535.75	\$ 10,733.99	\$ 4,366.50	\$ -	\$ 38,252.15
25	501 Union Association	\$ 2,182.66	\$ 2,498.92	\$ 109.47	\$ 300.60	\$ 118.40	\$ 58.98	\$ 16.45	\$ -	\$ 39.02	\$ 203.42	\$ 181.64	\$ 1,848.86	\$ 211.77	\$ -	\$ 7,770.19
28	Sun Trust Bank	\$ 21,480.05	\$ -	\$ -	\$ -	\$ 334.40	\$ 160.54	\$ 58.48	\$ -	\$ -	\$ -	\$ 97.62	\$ 5,437.51	\$ -	\$ -	\$ 27,568.60
29	Fifth Third Financial Center	\$ 6,670.48	\$ 9,249.43	\$ 405.02	\$ 1,112.20	\$ 489.56	\$ 235.03	\$ 60.85	\$ -	\$ 144.36	\$ 687.83	\$ 119.40	\$ 7,960.43	\$ -	\$ -	\$ 27,134.59
32	Renaissance Hotel	\$ 13,749.00	\$ 15,416.40	\$ 675.35	\$ 1,854.55	\$ 1,569.54	\$ 943.25	\$ 101.45	\$ -	\$ 240.71	\$ 1,278.83	\$ -	\$ 18,741.31	\$ 18,781.05	\$ -	\$ 73,351.44
33	Convention Center	\$ 16,929.52	\$ 19,517.82	\$ 854.97	\$ 2,347.80	\$ 1,705.35	\$ 933.86	\$ 128.43	\$ -	\$ 304.74	\$ -	\$ -	\$ 23,615.38	\$ 11,396.67	\$ -	\$ 77,734.54
34	Renaissance Office Tower	\$ 2,570.98	\$ 3,564.98	\$ 156.10	\$ 428.67	\$ 257.22	\$ 123.49	\$ 23.45	\$ -	\$ 55.64	\$ 198.67	\$ -	\$ 4,182.46	\$ -	\$ -	\$ 11,561.66
35	St. Mary of the Seven	\$ 872.36	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 29.08	\$ -	\$ -	\$ -	\$ -	\$ 901.44
36	Nashville City Center	\$ 5,436.15	\$ 7,537.89	\$ 330.07	\$ 906.40	\$ 705.80	\$ 338.85	\$ 49.59	\$ -	\$ 117.65	\$ 658.83	\$ -	\$ 11,476.60	\$ -	\$ -	\$ 27,557.83
38	Wildhorse Saloon	\$ 2,145.17	\$ 2,636.88	\$ 115.50	\$ 317.14	\$ 284.56	\$ 163.45	\$ 17.35	\$ -	\$ 41.17	\$ 159.83	\$ 59.42	\$ 3,668.01	\$ 2,656.48	\$ -	\$ 12,264.96
39	Ryman Auditorium	\$ 2,161.35	\$ 2,654.45	\$ 116.26	\$ 319.26	\$ 372.91	\$ 222.25	\$ 17.47	\$ -	\$ 41.43	\$ 155.00	\$ -	\$ 4,519.37	\$ 4,278.01	\$ -	\$ 14,857.76
40	Sommet Center	\$ 22,483.79	\$ 27,954.14	\$ 1,224.32	\$ 3,362.06	\$ 3,289.18	\$ 1,863.27	\$ 183.92	\$ -	\$ 436.39	\$ -	\$ 877.66	\$ 43,328.43	\$ 28,128.78	\$ -	\$ 133,131.94
41	LP Field	\$ 9,593.21	\$ 13,302.16	\$ 582.48	\$ 1,599.52	\$ 575.48	\$ 276.28	\$ 87.51	\$ -	\$ 207.62	\$ -	\$ -	\$ 9,357.52	\$ -	\$ -	\$ 35,581.78
43	Hume Fogg School	\$ 3,194.78	\$ 3,796.83	\$ 166.31	\$ 456.69	\$ 222.49	\$ 131.24	\$ 24.98	\$ -	\$ 59.27	\$ -	\$ 96.16	\$ 2,745.00	\$ 2,417.80	\$ -	\$ 13,311.55
44	Schermerhorn Symphony	\$ 13,277.00	\$ -	\$ -	\$ -	\$ 105.77	\$ 50.78	\$ 35.89	\$ -	\$ -	\$ -	\$ -	\$ 1,719.92	\$ -	\$ -	\$ 15,189.36
45	Nashville Public Library	\$ 6,056.28	\$ -	\$ -	\$ -	\$ 775.88	\$ 378.43	\$ 55.84	\$ -	\$ -	\$ -	\$ 82.17	\$ 12,403.99	\$ 587.36	\$ -	\$ 20,339.95
49	Viridian Residential	\$ 10,818.56	\$ -	\$ -	\$ -	\$ 188.33	\$ 90.42	\$ 27.07	\$ -	\$ -	\$ -	\$ 421.92	\$ 3,062.33	\$ -	\$ -	\$ 14,608.63
51	State Government of TN	\$ 136,594.49	\$ 93,353.04	\$ -	\$ -	\$ 6,859.27	\$ 3,872.41	\$ -	\$ -	\$ 1,607.63	\$ -	\$ 6,655.65	\$ 90,830.72	\$ 57,348.93	\$ -	\$ 397,122.14
Grand Totals:		\$ 337,141.14	\$ 271,890.30	\$ 7,820.01	\$ 21,474.13	\$ 22,224.34	\$ 12,384.19	\$ 1,352.04	\$ -	\$ 4,394.93	\$ 5,803.25	\$ 12,178.97	\$ 300,108.02	\$ 169,714.26	\$ -	\$ 1,166,485.58
Rate Calculation Totals:		\$ 373,951.74	\$ 375,374.45	\$ 12,352.98	\$ 33,922.08	\$ 22,236.11	\$ 12,392.49	\$ 1,855.83	\$ -	\$ 4,403.09	\$ 5,803.25	\$ 12,178.97	\$ 300,200.92	\$ 169,984.61	\$ -	\$ 1,324,656.52
Deviation:		\$ (36,810.60)	\$ (103,484.15)	\$ (4,532.97)	\$ (12,447.95)	\$ (11.77)	\$ (8.30)	\$ (503.79)	\$ -	\$ (8.16)	\$ -	\$ -	\$ (92.90)	\$ (270.35)	\$ -	\$ (158,170.94)

Metro Nashville District Energy System
FY 10 - 11

Chilled Water and Steam Revenues

November, 10

Customer Number	Customer Name	Capacity	Operating	EDS Improvement	Metro Incremental	Water And Sewer	Chemical Treatment	Engineering	Insurance	EDS Electricity	EDS Maint Costs Alloc	TIFS	Electricity	Natural Gas	Propane	Total
2	A. A. Birch	\$ 13,512.86	\$ 14,538.94	\$ 636.87	\$ 1,748.88	\$ 1,800.87	\$ 923.65	\$ 95.67	\$ -	\$ 210.16	\$ -	\$ 1,561.29	\$ 11,373.26	\$ 16,126.71	\$ -	\$ 62,529.16
4	Metro Courthouse	\$ 6,396.97	\$ 6,784.13	\$ 297.19	\$ 816.09	\$ 572.74	\$ 292.82	\$ 44.65	\$ -	\$ 98.07	\$ -	\$ 861.56	\$ 3,662.59	\$ 4,953.17	\$ -	\$ 24,779.98
7	Parkway Towers	\$ 5,831.96	\$ 6,582.06	\$ 288.30	\$ 791.67	\$ 862.41	\$ 433.16	\$ 43.31	\$ -	\$ 95.14	\$ 620.00	\$ 8.65	\$ 5,889.65	\$ 6,011.86	\$ -	\$ 27,458.17
9	Wachovia	\$ 2,149.62	\$ 2,385.72	\$ 104.50	\$ 286.96	\$ 238.32	\$ 127.54	\$ 15.69	\$ -	\$ 34.49	\$ 222.83	\$ -	\$ 1,248.57	\$ 3,124.49	\$ -	\$ 9,938.73
10	401 Union	\$ 2,971.18	\$ 3,416.13	\$ 149.62	\$ 410.86	\$ -	\$ -	\$ 22.48	\$ -	\$ 49.37	\$ 271.26	\$ -	\$ -	\$ -	\$ -	\$ 7,290.90
11	Sheraton Hotel	\$ 12,305.52	\$ 13,220.30	\$ 579.10	\$ 1,590.26	\$ 1,503.87	\$ 802.25	\$ 86.99	\$ -	\$ 191.10	\$ 1,075.50	\$ 97.16	\$ 8,001.67	\$ 19,242.06	\$ -	\$ 58,695.78
12	Municipal Auditorium	\$ 6,252.48	\$ 7,089.47	\$ 310.51	\$ 852.69	\$ 88.30	\$ 48.68	\$ 46.64	\$ -	\$ 102.47	\$ -	\$ 774.15	\$ 393.67	\$ 1,423.80	\$ -	\$ 17,382.86
21	Hermitage Hotel	\$ 5,943.76	\$ 6,198.83	\$ 271.56	\$ 745.71	\$ 526.49	\$ 264.58	\$ 40.80	\$ -	\$ 89.61	\$ 242.17	\$ 377.64	\$ 3,588.70	\$ 3,696.50	\$ -	\$ 21,986.35
24	Criminal Justice Center	\$ 10,050.36	\$ 10,191.78	\$ 446.51	\$ 1,226.12	\$ 1,597.74	\$ 790.76	\$ 67.08	\$ -	\$ 147.35	\$ -	\$ 552.29	\$ 11,479.30	\$ 8,945.75	\$ -	\$ 45,495.04
25	501 Union Association	\$ 2,343.49	\$ 2,498.92	\$ 109.47	\$ 300.60	\$ 382.95	\$ 194.41	\$ 16.45	\$ -	\$ 36.13	\$ 203.42	\$ 170.72	\$ 2,515.33	\$ 3,055.76	\$ -	\$ 11,827.65
28	Sun Trust Bank	\$ 21,480.05	\$ -	\$ -	\$ -	\$ 873.82	\$ 453.05	\$ 58.48	\$ -	\$ -	\$ -	\$ 181.30	\$ 5,283.27	\$ 8,733.44	\$ -	\$ 37,063.41
29	Fifth Third Financial Center	\$ 7,162.00	\$ 9,249.43	\$ 405.02	\$ 1,112.20	\$ 743.10	\$ 345.49	\$ 60.85	\$ -	\$ 133.66	\$ 687.83	\$ 139.50	\$ 6,416.67	\$ -	\$ -	\$ 26,455.75
32	Renaissance Hotel	\$ 14,762.12	\$ 15,416.40	\$ 675.35	\$ 1,854.55	\$ 2,348.11	\$ 1,201.44	\$ 101.45	\$ -	\$ 222.87	\$ 1,278.83	\$ -	\$ 14,969.43	\$ 20,486.63	\$ -	\$ 73,317.18
33	Convention Center	\$ 18,177.00	\$ 19,517.82	\$ 854.97	\$ 2,347.80	\$ 1,836.48	\$ 912.40	\$ 128.43	\$ -	\$ 282.14	\$ -	\$ -	\$ 13,025.60	\$ 10,934.91	\$ -	\$ 68,017.55
34	Renaissance Office Tower	\$ 2,760.43	\$ 3,564.98	\$ 156.10	\$ 428.67	\$ 286.26	\$ 133.09	\$ 23.45	\$ -	\$ 51.52	\$ 198.67	\$ -	\$ 2,471.88	\$ -	\$ -	\$ 10,075.05
35	St. Mary of the Seven	\$ 872.36	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 29.08	\$ -	\$ -	\$ -	\$ -	\$ 901.44
36	Nashville City Center	\$ 5,836.72	\$ 7,537.89	\$ 330.07	\$ 906.40	\$ 953.27	\$ 443.21	\$ 49.59	\$ -	\$ 108.93	\$ 658.83	\$ -	\$ 8,231.50	\$ -	\$ -	\$ 25,056.41
38	Wildhorse Saloon	\$ 2,303.24	\$ 2,636.88	\$ 115.50	\$ 317.14	\$ 349.78	\$ 181.48	\$ 17.35	\$ -	\$ 38.12	\$ 159.83	\$ 45.04	\$ 2,108.70	\$ 3,519.65	\$ -	\$ 11,792.71
39	Ryman Auditorium	\$ 2,320.61	\$ 2,654.45	\$ 116.26	\$ 319.26	\$ 480.96	\$ 246.42	\$ 17.47	\$ -	\$ 38.36	\$ 155.00	\$ -	\$ 3,050.34	\$ 4,257.47	\$ -	\$ 13,656.60
40	Sommet Center	\$ 24,140.55	\$ 27,954.14	\$ 1,224.32	\$ 3,362.06	\$ 4,884.85	\$ 2,410.97	\$ 183.92	\$ -	\$ 404.03	\$ -	\$ 983.43	\$ 35,417.99	\$ 26,108.38	\$ -	\$ 127,074.64
41	LP Field	\$ 10,300.10	\$ 13,302.16	\$ 582.48	\$ 1,599.52	\$ 396.81	\$ 184.49	\$ 87.51	\$ -	\$ 192.22	\$ -	\$ -	\$ 3,426.47	\$ -	\$ -	\$ 30,071.76
43	Hume Fogg School	\$ 3,430.19	\$ 3,796.83	\$ 166.31	\$ 456.69	\$ 316.71	\$ 164.04	\$ 24.98	\$ -	\$ 54.88	\$ -	\$ 127.45	\$ 1,922.95	\$ 3,134.32	\$ -	\$ 13,595.35
44	Schermerhorn Symphony	\$ 13,277.00	\$ -	\$ -	\$ -	\$ 204.12	\$ 109.35	\$ 35.89	\$ -	\$ -	\$ -	\$ -	\$ 1,063.77	\$ 2,697.69	\$ -	\$ 17,387.82
45	Nashville Public Library	\$ 6,056.28	\$ -	\$ -	\$ -	\$ 1,263.27	\$ 608.28	\$ 55.84	\$ -	\$ -	\$ -	\$ 92.71	\$ 9,895.14	\$ 3,911.74	\$ -	\$ 21,883.26
49	Viridian Residential	\$ 10,818.56	\$ -	\$ -	\$ -	\$ 126.65	\$ 58.88	\$ 27.07	\$ -	\$ -	\$ -	\$ 870.89	\$ 1,093.61	\$ -	\$ -	\$ 12,995.66
51	State Government of TN	\$ 136,594.49	\$ 93,353.04	\$ -	\$ -	\$ 11,510.98	\$ 5,853.95	\$ -	\$ -	\$ 1,488.37	\$ -	\$ 6,429.65	\$ 75,114.44	\$ 93,746.94	\$ -	\$ 424,091.86
Grand Totals:		\$ 348,049.90	\$ 271,890.30	\$ 7,820.01	\$ 21,474.13	\$ 34,148.86	\$ 17,184.39	\$ 1,352.04	\$ -	\$ 4,068.99	\$ 5,803.25	\$ 13,273.43	\$ 231,644.50	\$ 244,111.27	\$ -	\$ 1,200,821.07
Rate Calculation Totals:		\$ 391,441.86	\$ 375,374.45	\$ 12,352.98	\$ 33,922.08	\$ 34,169.77	\$ 17,197.31	\$ 1,855.83	\$ -	\$ 4,076.56	\$ 5,803.25	\$ 13,273.43	\$ 231,687.85	\$ 244,640.65	\$ -	\$ 1,365,796.02
Deviation:		\$ (43,391.96)	\$ (103,484.15)	\$ (4,532.97)	\$ (12,447.95)	\$ (20.91)	\$ (12.92)	\$ (503.79)	\$ -	\$ (7.57)	\$ -	\$ -	\$ (43.35)	\$ (529.38)	\$ -	\$ (164,974.95)

Metro Nashville District Energy System
FY 10 - 11

Chilled Water and Steam Revenues

December, 10

Customer Number	Customer Name	Capacity	Operating	EDS Improvement	Metro Incremental	Water And Sewer	Chemical Treatment	Engineering	Insurance	EDS Electricity	EDS Maint Costs Alloc	TIFS	Electricity	Natural Gas	Propane	Total
2	A. A. Birch	\$ 12,925.57	\$ 14,538.94	\$ 636.87	\$ 1,748.88	\$ 1,491.13	\$ 645.01	\$ 95.67	\$ -	\$ 225.72	\$ -	\$ 1,758.59	\$ 11,327.19	\$ 22,393.39	\$ 50.64	\$ 67,837.60
4	Metro Courthouse	\$ 6,118.95	\$ 6,784.13	\$ 297.19	\$ 816.09	\$ 521.60	\$ 230.74	\$ 44.65	\$ -	\$ 105.33	\$ -	\$ 895.57	\$ 3,698.22	\$ 9,854.41	\$ 22.29	\$ 29,389.17
7	Parkway Towers	\$ 5,578.49	\$ 6,582.06	\$ 288.30	\$ 791.67	\$ 1,011.32	\$ 432.24	\$ 43.31	\$ -	\$ 102.17	\$ 620.00	\$ 301.40	\$ 7,951.88	\$ 13,124.31	\$ 29.68	\$ 36,856.83
9	Wachovia	\$ 2,056.20	\$ 2,385.72	\$ 104.50	\$ 286.96	\$ 314.39	\$ 139.72	\$ 15.69	\$ -	\$ 37.04	\$ 222.83	\$ 60.12	\$ 2,195.72	\$ 6,194.53	\$ 14.01	\$ 14,027.43
10	401 Union	\$ 2,842.05	\$ 3,416.13	\$ 149.62	\$ 410.86	\$ -	\$ -	\$ 22.48	\$ -	\$ 53.03	\$ 271.26	\$ -	\$ -	\$ -	\$ -	\$ 7,165.43
11	Sheraton Hotel	\$ 11,770.71	\$ 13,220.30	\$ 579.10	\$ 1,590.26	\$ 1,209.70	\$ 545.63	\$ 86.99	\$ -	\$ 205.25	\$ 1,075.50	\$ 388.61	\$ 8,034.18	\$ 27,007.90	\$ 61.08	\$ 65,775.21
12	Municipal Auditorium	\$ 5,980.75	\$ 7,089.47	\$ 310.51	\$ 852.69	\$ 266.03	\$ 141.33	\$ 46.64	\$ -	\$ 110.06	\$ -	\$ -	\$ 663.77	\$ 14,381.16	\$ 32.52	\$ 29,874.93
21	Hermitage Hotel	\$ 5,685.44	\$ 6,198.83	\$ 271.56	\$ 745.71	\$ 585.51	\$ 249.48	\$ 40.80	\$ -	\$ 96.25	\$ 242.17	\$ 367.39	\$ 4,643.28	\$ 7,296.04	\$ 16.50	\$ 26,438.96
24	Criminal Justice Center	\$ 9,613.57	\$ 10,191.78	\$ 446.51	\$ 1,226.12	\$ 1,881.91	\$ 791.79	\$ 67.08	\$ -	\$ 158.25	\$ -	\$ 537.30	\$ 15,445.77	\$ 19,460.11	\$ 44.01	\$ 59,864.20
25	501 Union Association	\$ 2,241.64	\$ 2,498.92	\$ 109.47	\$ 300.60	\$ 390.07	\$ 165.70	\$ 16.45	\$ -	\$ 38.79	\$ 203.42	\$ 99.95	\$ 3,119.89	\$ 4,658.53	\$ 10.54	\$ 13,853.97
28	Sun Trust Bank	\$ 18,241.44	\$ -	\$ -	\$ -	\$ 920.32	\$ 408.18	\$ 49.99	\$ -	\$ -	\$ -	\$ -	\$ 6,469.94	\$ 17,809.44	\$ 40.28	\$ 43,939.59
29	Fifth Third Financial Center	\$ 6,850.74	\$ 9,249.43	\$ 405.02	\$ 1,112.20	\$ 540.88	\$ 213.43	\$ 60.85	\$ -	\$ 143.55	\$ 687.83	\$ 297.85	\$ 5,170.02	\$ -	\$ -	\$ 24,731.80
32	Renaissance Hotel	\$ 14,120.55	\$ 15,416.40	\$ 675.35	\$ 1,854.55	\$ 2,190.99	\$ 937.50	\$ 101.45	\$ -	\$ 239.36	\$ 1,278.83	\$ -	\$ 17,172.97	\$ 28,851.62	\$ 65.25	\$ 82,904.82
33	Convention Center	\$ 17,387.01	\$ 19,517.82	\$ 854.97	\$ 2,347.80	\$ 1,566.22	\$ 668.45	\$ 128.43	\$ -	\$ 303.02	\$ -	\$ -	\$ 12,364.89	\$ 19,944.35	\$ 45.11	\$ 75,128.07
34	Renaissance Office Tower	\$ 2,640.46	\$ 3,564.98	\$ 156.10	\$ 428.67	\$ 103.52	\$ 40.85	\$ 23.45	\$ -	\$ 55.33	\$ 198.67	\$ -	\$ 989.47	\$ -	\$ -	\$ 8,201.50
35	St. Mary of the Seven	\$ 872.36	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 29.08	\$ -	\$ -	\$ -	\$ -	\$ 901.44
36	Nashville City Center	\$ 5,583.05	\$ 7,537.89	\$ 330.07	\$ 906.40	\$ 635.83	\$ 250.89	\$ 49.59	\$ -	\$ 116.98	\$ 658.83	\$ 19.68	\$ 6,077.59	\$ -	\$ -	\$ 22,166.80
38	Wildhorse Saloon	\$ 2,203.14	\$ 2,636.88	\$ 115.50	\$ 317.14	\$ 298.89	\$ 129.58	\$ 17.35	\$ -	\$ 40.94	\$ 159.83	\$ 44.19	\$ 2,255.66	\$ 4,601.93	\$ 10.41	\$ 12,831.44
39	Ryman Auditorium	\$ 2,219.76	\$ 2,654.45	\$ 116.26	\$ 319.26	\$ 281.07	\$ 126.19	\$ 17.47	\$ -	\$ 41.20	\$ 155.00	\$ -	\$ 1,896.84	\$ 6,043.95	\$ 13.67	\$ 13,885.12
40	Sommet Center	\$ 23,091.38	\$ 27,954.14	\$ 1,224.32	\$ 3,362.06	\$ 5,259.54	\$ 2,172.09	\$ 183.92	\$ -	\$ 433.93	\$ -	\$ 1,157.73	\$ 45,275.48	\$ 38,252.03	\$ 86.51	\$ 148,453.13
41	LP Field	\$ 9,852.45	\$ 13,302.16	\$ 582.48	\$ 1,599.52	\$ 137.32	\$ 54.19	\$ 87.51	\$ -	\$ 206.44	\$ -	\$ -	\$ 1,312.62	\$ -	\$ -	\$ 27,134.69
43	Hume Fogg School	\$ 3,281.11	\$ 3,796.83	\$ 166.31	\$ 456.69	\$ 264.05	\$ 121.70	\$ 24.98	\$ -	\$ 58.95	\$ -	\$ 90.30	\$ 1,619.20	\$ 6,924.68	\$ 15.66	\$ 16,820.46
44	Schermerhorn Symphony	\$ 13,277.00	\$ -	\$ -	\$ -	\$ 853.67	\$ 364.85	\$ 36.05	\$ -	\$ -	\$ -	\$ -	\$ 6,712.82	\$ 11,074.69	\$ 25.05	\$ 32,344.13
45	Nashville Public Library	\$ 6,056.28	\$ -	\$ -	\$ -	\$ 940.00	\$ 389.04	\$ 56.11	\$ -	\$ -	\$ -	\$ 122.21	\$ 8,048.64	\$ 7,166.94	\$ 16.21	\$ 22,795.43
49	Viridian Residential	\$ 10,818.56	\$ -	\$ -	\$ -	\$ 114.34	\$ 45.12	\$ 27.19	\$ -	\$ -	\$ -	\$ -	\$ 1,092.95	\$ -	\$ -	\$ 12,098.16
51	State Government of TN	\$ 136,594.49	\$ 93,353.04	\$ -	\$ -	\$ 10,712.82	\$ 4,640.41	\$ -	\$ -	\$ 1,598.52	\$ -	\$ 6,471.69	\$ 81,046.28	\$ 163,423.21	\$ 369.58	\$ 498,210.04
Grand Totals:		\$ 337,903.15	\$ 271,890.30	\$ 7,820.01	\$ 21,474.13	\$ 32,491.12	\$ 13,904.11	\$ 1,344.10	\$ -	\$ 4,370.11	\$ 5,803.25	\$ 12,612.58	\$ 254,585.27	\$ 428,463.22	\$ 969.00	\$ 1,393,630.35
Rate Calculation Totals:		\$ 380,365.98	\$ 375,374.45	\$ 12,352.98	\$ 33,922.08	\$ 32,507.71	\$ 13,912.81	\$ 1,855.83	\$ -	\$ 4,378.11	\$ 5,803.25	\$ 12,612.58	\$ 254,640.36	\$ 429,256.19	\$ 970.80	\$ 1,557,953.13
Deviation:		\$ (42,462.83)	\$ (103,484.15)	\$ (4,532.97)	\$ (12,447.95)	\$ (16.59)	\$ (8.70)	\$ (511.73)	\$ -	\$ (8.00)	\$ -	\$ -	\$ (55.09)	\$ (792.97)	\$ (1.80)	\$ (164,322.78)

Metro Nashville District Energy System
FY 10 - 11

Chilled Water and Steam Revenues

January, 11

Customer Number	Customer Name	Capacity	Operating	EDS Improvement	Metro Incremental	Water And Sewer	Chemical Treatment	Engineering	Insurance	EDS Electricity	EDS Maint Costs Alloc	TIFS	Electricity	Natural Gas	Propane	Total
2	A. A. Birch	\$ 12,925.57	\$ 14,538.94	\$ 636.87	\$ 1,748.88	\$ 915.13	\$ 624.40	\$ 95.67	\$ 1,018.21	\$ 240.95	\$ -	\$ 1,782.90	\$ 9,764.82	\$ 21,051.66	\$ 172.36	\$ 65,516.36
4	Metro Courthouse	\$ 6,118.95	\$ 6,784.13	\$ 297.19	\$ 816.09	\$ 361.36	\$ 246.56	\$ 44.65	\$ 475.13	\$ 112.43	\$ -	\$ 866.80	\$ 3,649.66	\$ 9,381.33	\$ 76.81	\$ 29,231.09
7	Parkway Towers	\$ 5,578.49	\$ 6,582.06	\$ 288.30	\$ 791.67	\$ 650.08	\$ 443.56	\$ 43.31	\$ 460.92	\$ 109.07	\$ 620.00	\$ 237.72	\$ 7,452.99	\$ 12,278.99	\$ 100.54	\$ 35,637.70
9	Wachovia	\$ 2,056.20	\$ 2,385.72	\$ 104.50	\$ 286.96	\$ 275.09	\$ 187.70	\$ 15.69	\$ 167.07	\$ 39.53	\$ 222.83	\$ 16.13	\$ 3,054.26	\$ 5,711.83	\$ 46.77	\$ 14,570.28
10	401 Union	\$ 2,842.05	\$ 3,416.13	\$ 149.62	\$ 410.86	\$ -	\$ -	\$ 22.48	\$ 239.21	\$ 56.60	\$ 271.26	\$ -	\$ -	\$ -	\$ -	\$ 7,408.21
11	Sheraton Hotel	\$ 11,770.71	\$ 13,220.30	\$ 579.10	\$ 1,590.26	\$ 932.60	\$ 636.33	\$ 86.99	\$ 925.86	\$ 219.10	\$ 1,075.50	\$ 95.32	\$ 8,519.41	\$ 28,873.20	\$ 236.40	\$ 68,761.08
12	Municipal Auditorium	\$ 5,906.91	\$ 7,025.46	\$ 307.71	\$ 844.99	\$ 173.11	\$ 118.12	\$ 46.22	\$ 491.96	\$ 116.42	\$ -	\$ -	\$ 389.57	\$ 11,534.58	\$ 94.44	\$ 27,049.49
21	Hermitage Hotel	\$ 5,685.44	\$ 6,198.83	\$ 271.56	\$ 745.71	\$ 337.36	\$ 230.18	\$ 40.80	\$ 434.15	\$ 102.74	\$ 242.17	\$ 370.47	\$ 3,840.44	\$ 6,513.93	\$ 53.33	\$ 25,067.11
24	Criminal Justice Center	\$ 9,613.57	\$ 10,191.78	\$ 446.51	\$ 1,226.12	\$ 1,331.62	\$ 908.58	\$ 67.08	\$ 713.86	\$ 168.93	\$ -	\$ 532.79	\$ 16,171.70	\$ 20,463.39	\$ 167.55	\$ 62,003.48
25	501 Union Association	\$ 2,241.64	\$ 2,498.92	\$ 109.47	\$ 300.60	\$ 276.15	\$ 188.42	\$ 16.45	\$ 175.01	\$ 41.41	\$ 203.42	\$ 25.66	\$ 3,174.77	\$ 5,170.99	\$ 42.34	\$ 14,465.25
28	Sun Trust Bank	\$ 18,241.44	\$ -	\$ -	\$ -	\$ 663.35	\$ 452.61	\$ 50.02	\$ 532.24	\$ -	\$ -	\$ -	\$ 6,763.52	\$ 16,890.52	\$ 138.29	\$ 43,731.99
29	Fifth Third Financial Center	\$ 6,850.74	\$ 9,249.43	\$ 405.02	\$ 1,112.20	\$ 352.33	\$ 240.40	\$ 60.85	\$ 647.53	\$ 153.23	\$ 687.83	\$ 249.55	\$ 5,323.74	\$ -	\$ -	\$ 25,332.85
32	Renaissance Hotel	\$ 14,120.55	\$ 15,416.40	\$ 675.35	\$ 1,854.55	\$ 1,397.00	\$ 953.20	\$ 101.45	\$ 1,079.73	\$ 255.51	\$ 1,278.83	\$ -	\$ 16,000.83	\$ 26,468.08	\$ 216.71	\$ 79,818.19
33	Convention Center	\$ 17,387.01	\$ 19,517.82	\$ 854.97	\$ 2,347.80	\$ 1,063.99	\$ 725.98	\$ 128.43	\$ 1,366.91	\$ 323.47	\$ -	\$ -	\$ 11,885.23	\$ 21,720.40	\$ 177.84	\$ 77,499.85
34	Renaissance Office Tower	\$ 2,640.46	\$ 3,564.98	\$ 156.10	\$ 428.67	\$ 75.19	\$ 51.30	\$ 23.45	\$ 249.58	\$ 59.06	\$ 198.67	\$ -	\$ 1,136.16	\$ -	\$ -	\$ 8,583.62
35	St. Mary of the Seven	\$ 872.36	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 29.08	\$ -	\$ -	\$ -	\$ -	\$ 901.44
36	Nashville City Center	\$ 5,583.05	\$ 7,537.89	\$ 330.07	\$ 906.40	\$ 353.56	\$ 241.23	\$ 49.59	\$ 527.71	\$ 124.88	\$ 658.83	\$ 13.12	\$ 5,342.31	\$ -	\$ -	\$ 21,668.64
38	Wildhorse Saloon	\$ 2,203.14	\$ 2,636.88	\$ 115.50	\$ 317.14	\$ 215.82	\$ 147.26	\$ 17.35	\$ 184.64	\$ 43.69	\$ 159.83	\$ 44.19	\$ 2,295.15	\$ 5,004.67	\$ 40.98	\$ 13,426.24
39	Ryman Auditorium	\$ 2,144.18	\$ 2,588.92	\$ 113.39	\$ 311.37	\$ 181.71	\$ 123.99	\$ 17.04	\$ 181.28	\$ 42.90	\$ 155.00	\$ -	\$ 1,654.95	\$ 5,651.84	\$ 46.27	\$ 13,212.84
40	Sommet Center	\$ 23,091.38	\$ 27,954.14	\$ 1,224.32	\$ 3,362.06	\$ 2,542.71	\$ 1,734.91	\$ 183.92	\$ 1,957.41	\$ 463.20	\$ -	\$ 1,234.91	\$ 32,673.81	\$ 29,778.19	\$ 243.81	\$ 126,444.77
41	LP Field	\$ 9,852.45	\$ 13,302.16	\$ 582.48	\$ 1,599.52	\$ 59.09	\$ 40.32	\$ 87.51	\$ 931.25	\$ 220.37	\$ -	\$ -	\$ 892.84	\$ -	\$ -	\$ 27,567.99
43	Hume Fogg School	\$ 3,281.11	\$ 3,796.83	\$ 166.31	\$ 456.69	\$ 231.55	\$ 157.99	\$ 24.98	\$ 265.89	\$ 62.92	\$ -	\$ 134.30	\$ 2,130.73	\$ 7,088.70	\$ 58.04	\$ 17,856.04
44	Schermerhorn Symphony	\$ 13,277.00	\$ -	\$ -	\$ -	\$ 617.52	\$ 421.35	\$ 36.07	\$ 383.82	\$ -	\$ -	\$ -	\$ 6,379.73	\$ 15,291.67	\$ 125.20	\$ 36,532.36
45	Nashville Public Library	\$ 6,056.28	\$ -	\$ -	\$ -	\$ 543.05	\$ 370.53	\$ 56.15	\$ 597.48	\$ -	\$ -	\$ 139.06	\$ 6,827.49	\$ 7,140.60	\$ 58.46	\$ 21,789.10
49	Viridian Residential	\$ 10,818.56	\$ -	\$ -	\$ -	\$ 54.99	\$ 37.52	\$ 27.19	\$ 289.35	\$ -	\$ -	\$ -	\$ 830.90	\$ -	\$ -	\$ 12,058.51
51	State Government of TN	\$ 136,594.49	\$ 93,353.04	\$ -	\$ -	\$ 6,882.79	\$ 4,696.24	\$ -	\$ 7,210.90	\$ 1,706.40	\$ -	\$ 6,317.98	\$ 74,470.61	\$ 153,007.18	\$ 1,252.77	\$ 485,492.40
Grand Totals:		\$ 337,753.73	\$ 271,760.76	\$ 7,814.34	\$ 21,458.54	\$ 20,487.15	\$ 13,978.68	\$ 1,343.34	\$ 21,507.10	\$ 4,662.81	\$ 5,803.25	\$ 12,060.90	\$ 230,625.62	\$ 409,021.75	\$ 3,348.91	\$ 1,361,626.88
Rate Calculation Totals:		\$ 380,365.98	\$ 375,374.45	\$ 12,352.98	\$ 33,922.08	\$ 20,499.96	\$ 13,987.76	\$ 1,855.83	\$ 19,749.61	\$ 4,673.54	\$ 5,803.25	\$ 12,060.90	\$ 230,670.88	\$ 409,791.32	\$ 3,355.21	\$ 1,524,463.75
Deviation:		\$ (42,612.25)	\$ (103,613.69)	\$ (4,538.64)	\$ (12,463.54)	\$ (12.81)	\$ (9.08)	\$ (512.49)	\$ 1,757.49	\$ (10.73)	\$ -	\$ -	\$ (45.26)	\$ (769.57)	\$ (6.30)	\$ (162,836.87)

Metro Nashville District Energy System
FY 10 - 11

Chilled Water and Steam Revenues

February, 11

Customer Number	Customer Name	Capacity	Operating	EDS Improvement	Metro Incremental	Water And Sewer	Chemical Treatment	Engineering	Insurance	EDS Electricity	EDS Maint Costs Alloc	TIFS	Electricity	Natural Gas	Propane	Total
2	A. A. Birch	\$ 12,925.57	\$ 14,538.94	\$ 636.87	\$ 1,748.88	\$ 1,181.15	\$ 594.74	\$ 95.67	\$ -	\$ 213.66	\$ -	\$ 1,604.61	\$ 10,377.04	\$ 18,763.27	\$ 4.14	\$ 62,684.54
4	Metro Courthouse	\$ 6,118.95	\$ 6,784.13	\$ 297.19	\$ 816.09	\$ 480.83	\$ 242.11	\$ 44.65	\$ -	\$ 99.70	\$ -	\$ 748.11	\$ 4,435.33	\$ 6,881.96	\$ 1.52	\$ 26,950.57
7	Parkway Towers	\$ 5,578.49	\$ 6,582.06	\$ 288.30	\$ 791.67	\$ 745.83	\$ 375.55	\$ 43.31	\$ -	\$ 96.71	\$ 620.00	\$ 106.13	\$ 7,133.30	\$ 9,766.19	\$ 2.15	\$ 32,129.69
9	Wachovia	\$ 2,056.20	\$ 2,385.72	\$ 104.50	\$ 286.96	\$ 316.24	\$ 159.23	\$ 15.69	\$ -	\$ 35.05	\$ 222.83	\$ 7.33	\$ 2,979.68	\$ 4,301.83	\$ 0.95	\$ 12,872.21
10	401 Union	\$ 2,842.05	\$ 3,416.13	\$ 149.62	\$ 410.86	\$ -	\$ -	\$ 22.48	\$ -	\$ 50.19	\$ 271.26	\$ -	\$ -	\$ -	\$ -	\$ 7,162.59
11	Sheraton Hotel	\$ 11,770.71	\$ 13,220.30	\$ 579.10	\$ 1,590.26	\$ 1,052.47	\$ 529.95	\$ 86.99	\$ -	\$ 194.29	\$ 1,075.50	\$ -	\$ 7,868.76	\$ 21,658.08	\$ 4.78	\$ 59,631.19
12	Municipal Auditorium	\$ 5,906.91	\$ 7,025.46	\$ 307.71	\$ 844.99	\$ 150.55	\$ 75.81	\$ 46.22	\$ -	\$ 103.23	\$ -	\$ -	\$ 193.46	\$ 6,439.52	\$ 1.42	\$ 21,095.28
21	Hermitage Hotel	\$ 5,685.44	\$ 6,198.83	\$ 271.56	\$ 745.71	\$ 397.62	\$ 200.22	\$ 40.80	\$ -	\$ 91.10	\$ 242.17	\$ 370.47	\$ 3,673.24	\$ 5,671.83	\$ 1.25	\$ 23,590.24
24	Criminal Justice Center	\$ 9,613.57	\$ 10,191.78	\$ 446.51	\$ 1,226.12	\$ 1,291.47	\$ 650.29	\$ 67.08	\$ -	\$ 149.79	\$ -	\$ 523.76	\$ 12,805.38	\$ 15,285.82	\$ 3.37	\$ 52,254.94
25	501 Union Association	\$ 2,241.64	\$ 2,498.92	\$ 109.47	\$ 300.60	\$ 221.09	\$ 111.32	\$ 16.45	\$ -	\$ 36.72	\$ 203.42	\$ 76.99	\$ 2,252.47	\$ 2,400.88	\$ 0.53	\$ 10,470.50
28	Sun Trust Bank	\$ 18,241.44	\$ -	\$ -	\$ -	\$ 648.26	\$ 326.42	\$ 50.02	\$ -	\$ -	\$ -	\$ -	\$ 5,406.82	\$ 11,332.64	\$ 2.50	\$ 36,008.10
29	Fifth Third Financial Center	\$ 6,850.74	\$ 9,249.43	\$ 405.02	\$ 1,112.20	\$ 419.40	\$ 211.18	\$ 60.85	\$ -	\$ 135.88	\$ 687.83	\$ 177.10	\$ 5,543.38	\$ -	\$ -	\$ 24,853.01
32	Renaissance Hotel	\$ 14,120.55	\$ 15,416.40	\$ 675.35	\$ 1,854.55	\$ 1,555.24	\$ 783.11	\$ 101.45	\$ -	\$ 226.57	\$ 1,278.83	\$ -	\$ 14,544.29	\$ 21,549.74	\$ 4.75	\$ 72,110.83
33	Convention Center	\$ 17,387.01	\$ 19,517.82	\$ 854.97	\$ 2,347.80	\$ 1,192.37	\$ 600.39	\$ 128.43	\$ -	\$ 286.83	\$ -	\$ -	\$ 11,077.81	\$ 16,783.57	\$ 3.70	\$ 70,180.70
34	Renaissance Office Tower	\$ 2,640.46	\$ 3,564.98	\$ 156.10	\$ 428.67	\$ 89.09	\$ 44.86	\$ 23.45	\$ -	\$ 52.37	\$ 198.67	\$ -	\$ 1,177.53	\$ -	\$ -	\$ 8,376.18
35	St. Mary of the Seven	\$ 872.36	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 29.08	\$ -	\$ -	\$ -	\$ -	\$ 901.44
36	Nashville City Center	\$ 5,583.05	\$ 7,537.89	\$ 330.07	\$ 906.40	\$ 460.85	\$ 232.05	\$ 49.59	\$ -	\$ 110.74	\$ 658.83	\$ -	\$ 6,091.12	\$ -	\$ -	\$ 21,960.59
38	Wildhorse Saloon	\$ 2,203.14	\$ 2,636.88	\$ 115.50	\$ 317.14	\$ 254.89	\$ 128.34	\$ 17.35	\$ -	\$ 38.74	\$ 159.83	\$ 44.19	\$ 2,337.10	\$ 3,698.39	\$ 0.82	\$ 11,952.31
39	Ryman Auditorium	\$ 2,144.18	\$ 2,588.92	\$ 113.39	\$ 311.37	\$ 280.85	\$ 141.41	\$ 17.04	\$ -	\$ 38.04	\$ 155.00	\$ -	\$ 2,321.19	\$ 4,985.40	\$ 1.10	\$ 13,097.89
40	Sommet Center	\$ 23,091.38	\$ 27,954.14	\$ 1,224.32	\$ 3,362.06	\$ 3,775.99	\$ 1,901.32	\$ 183.92	\$ -	\$ 410.75	\$ -	\$ 849.00	\$ 41,469.18	\$ 30,250.30	\$ 6.67	\$ 134,479.03
41	LP Field	\$ 9,852.45	\$ 13,302.16	\$ 582.48	\$ 1,599.52	\$ 125.31	\$ 63.10	\$ 87.51	\$ -	\$ 195.42	\$ -	\$ -	\$ 1,656.28	\$ -	\$ -	\$ 27,464.23
43	Hume Fogg School	\$ 3,281.11	\$ 3,796.83	\$ 166.31	\$ 456.69	\$ 301.08	\$ 151.60	\$ 24.98	\$ -	\$ 55.79	\$ -	\$ 120.40	\$ 2,457.57	\$ 5,455.21	\$ 1.20	\$ 16,268.77
44	Schermerhorn Symphony	\$ 13,277.00	\$ -	\$ -	\$ -	\$ 503.12	\$ 253.33	\$ 36.07	\$ -	\$ -	\$ -	\$ -	\$ 3,982.44	\$ 9,561.80	\$ 2.11	\$ 27,615.87
45	Nashville Public Library	\$ 6,056.28	\$ -	\$ -	\$ -	\$ 760.65	\$ 383.01	\$ 56.15	\$ -	\$ -	\$ -	\$ 99.03	\$ 8,283.02	\$ 6,347.10	\$ 1.40	\$ 21,986.64
49	Viridian Residential	\$ 10,818.56	\$ -	\$ -	\$ -	\$ 81.72	\$ 41.15	\$ 27.19	\$ -	\$ -	\$ -	\$ 1,168.40	\$ 1,080.09	\$ -	\$ -	\$ 13,217.11
51	State Government of TN	\$ 136,594.49	\$ 93,353.04	\$ -	\$ -	\$ 8,307.71	\$ 4,183.14	\$ -	\$ -	\$ 1,513.13	\$ -	\$ 6,353.01	\$ 78,014.39	\$ 113,956.97	\$ 25.13	\$ 442,301.01
Grand Totals:		\$ 337,753.73	\$ 271,760.76	\$ 7,814.34	\$ 21,458.54	\$ 24,593.78	\$ 12,383.63	\$ 1,343.34	\$ -	\$ 4,134.70	\$ 5,803.25	\$ 12,248.53	\$ 237,160.87	\$ 315,090.50	\$ 69.49	\$ 1,251,615.46
Rate Calculation Totals:		\$ 380,365.98	\$ 375,374.45	\$ 12,352.98	\$ 33,922.08	\$ 24,612.14	\$ 12,392.49	\$ 1,855.83	\$ -	\$ 4,144.37	\$ 5,803.25	\$ 12,248.53	\$ 237,201.18	\$ 315,815.81	\$ 69.63	\$ 1,416,158.72
Deviation:		\$ (42,612.25)	\$ (103,613.69)	\$ (4,538.64)	\$ (12,463.54)	\$ (18.36)	\$ (8.86)	\$ (512.49)	\$ -	\$ (9.67)	\$ -	\$ -	\$ (40.31)	\$ (725.31)	\$ (0.14)	\$ (164,543.26)

Metro Nashville District Energy System
FY 10 - 11

Chilled Water and Steam Revenues

March, 11

Customer Number	Customer Name	Capacity	Operating	EDS Improvement	Metro Incremental	Water And Sewer	Chemical Treatment	Engineering	Insurance	EDS Electricity	EDS Maint Costs Alloc	TIFS	Electricity	Natural Gas	Propane	Total
2	A. A. Birch	\$ 12,925.57	\$ 14,538.94	\$ 636.87	\$ 1,748.88	\$ 890.45	\$ 690.69	\$ 95.67	\$ -	\$ 221.99	\$ -	\$ 1,726.18	\$ 11,294.77	\$ 17,559.30	\$ -	\$ 62,329.31
4	Metro Courthouse	\$ 6,118.95	\$ 6,784.13	\$ 297.19	\$ 816.09	\$ 308.70	\$ 239.45	\$ 44.65	\$ -	\$ 103.60	\$ -	\$ 758.90	\$ 4,383.28	\$ 4,975.89	\$ -	\$ 24,830.83
7	Parkway Towers	\$ 5,578.49	\$ 6,582.06	\$ 288.30	\$ 791.67	\$ 485.57	\$ 376.64	\$ 43.31	\$ -	\$ 100.50	\$ 620.00	\$ -	\$ 7,360.55	\$ 6,719.49	\$ -	\$ 28,946.58
9	Wachovia	\$ 2,056.20	\$ 2,385.72	\$ 104.50	\$ 286.96	\$ 175.04	\$ 135.78	\$ 15.69	\$ -	\$ 36.43	\$ 222.83	\$ -	\$ 2,369.10	\$ 3,097.93	\$ -	\$ 10,886.18
10	401 Union	\$ 2,842.05	\$ 3,416.13	\$ 149.62	\$ 410.86	\$ -	\$ -	\$ 22.48	\$ -	\$ 52.16	\$ 271.26	\$ -	\$ -	\$ -	\$ -	\$ 7,164.56
11	Sheraton Hotel	\$ 11,770.71	\$ 13,220.30	\$ 579.10	\$ 1,590.26	\$ 783.46	\$ 607.71	\$ 86.99	\$ -	\$ 201.87	\$ 1,075.50	\$ -	\$ 8,723.91	\$ 18,334.21	\$ -	\$ 56,974.02
12	Municipal Auditorium	\$ 5,906.91	\$ 7,025.46	\$ 307.71	\$ 844.99	\$ 23.20	\$ 17.99	\$ 46.22	\$ -	\$ 107.26	\$ -	\$ -	\$ 156.92	\$ 783.87	\$ -	\$ 15,220.53
21	Hermitage Hotel	\$ 5,685.44	\$ 6,198.83	\$ 271.56	\$ 745.71	\$ 273.59	\$ 212.21	\$ 40.80	\$ -	\$ 94.66	\$ 242.17	\$ 366.15	\$ 3,948.53	\$ 4,258.39	\$ -	\$ 22,338.04
24	Criminal Justice Center	\$ 9,613.57	\$ 10,191.78	\$ 446.51	\$ 1,226.12	\$ 747.85	\$ 580.08	\$ 67.08	\$ -	\$ 155.64	\$ -	\$ 541.82	\$ 11,800.70	\$ 9,245.56	\$ -	\$ 44,616.71
25	501 Union Association	\$ 2,241.64	\$ 2,498.92	\$ 109.47	\$ 300.60	\$ 146.15	\$ 113.37	\$ 16.45	\$ -	\$ 38.16	\$ 203.42	\$ 156.68	\$ 2,358.78	\$ 1,681.82	\$ -	\$ 9,865.46
28	Sun Trust Bank	\$ 18,241.44	\$ -	\$ -	\$ -	\$ 485.58	\$ 376.65	\$ 50.02	\$ -	\$ -	\$ -	\$ -	\$ 5,824.90	\$ 10,370.16	\$ -	\$ 35,348.75
29	Fifth Third Financial Center	\$ 6,850.74	\$ 9,249.43	\$ 405.02	\$ 1,112.20	\$ 311.49	\$ 241.61	\$ 60.85	\$ -	\$ 141.18	\$ 687.83	\$ 157.78	\$ 6,535.48	\$ -	\$ -	\$ 25,753.61
32	Renaissance Hotel	\$ 14,120.55	\$ 15,416.40	\$ 675.35	\$ 1,854.55	\$ 1,162.80	\$ 901.94	\$ 101.45	\$ -	\$ 235.42	\$ 1,278.83	\$ -	\$ 16,500.39	\$ 18,768.24	\$ -	\$ 71,015.92
33	Convention Center	\$ 17,387.01	\$ 19,517.82	\$ 854.97	\$ 2,347.80	\$ 985.28	\$ 764.24	\$ 128.43	\$ -	\$ 298.02	\$ -	\$ -	\$ 15,129.32	\$ 13,174.21	\$ -	\$ 70,587.10
34	Renaissance Office Tower	\$ 2,640.46	\$ 3,564.98	\$ 156.10	\$ 428.67	\$ 79.17	\$ 61.41	\$ 23.45	\$ -	\$ 54.41	\$ 198.67	\$ -	\$ 1,661.12	\$ -	\$ -	\$ 8,868.44
35	St. Mary of the Seven	\$ 872.36	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 29.08	\$ -	\$ -	\$ -	\$ -	\$ 901.44
36	Nashville City Center	\$ 5,583.05	\$ 7,537.89	\$ 330.07	\$ 906.40	\$ 425.09	\$ 329.73	\$ 49.59	\$ -	\$ 115.05	\$ 658.83	\$ -	\$ 8,918.99	\$ -	\$ -	\$ 24,854.69
38	Wildhorse Saloon	\$ 2,203.14	\$ 2,636.88	\$ 115.50	\$ 317.14	\$ 203.08	\$ 157.52	\$ 17.35	\$ -	\$ 40.26	\$ 159.83	\$ 43.83	\$ 2,816.60	\$ 3,432.71	\$ -	\$ 12,143.84
39	Ryman Auditorium	\$ 2,144.18	\$ 2,588.92	\$ 113.39	\$ 311.37	\$ 239.80	\$ 186.00	\$ 17.04	\$ -	\$ 39.52	\$ 155.00	\$ -	\$ 3,187.02	\$ 4,383.19	\$ -	\$ 13,365.43
40	Sommet Center	\$ 23,091.38	\$ 27,954.14	\$ 1,224.32	\$ 3,362.06	\$ 2,914.86	\$ 2,260.95	\$ 183.92	\$ -	\$ 426.77	\$ -	\$ 713.93	\$ 49,299.75	\$ 28,181.83	\$ -	\$ 139,613.91
41	LP Field	\$ 9,852.45	\$ 13,302.16	\$ 582.48	\$ 1,599.52	\$ 165.64	\$ 128.48	\$ 87.51	\$ -	\$ 203.03	\$ -	\$ -	\$ 3,475.39	\$ -	\$ -	\$ 29,396.66
43	Hume Fogg School	\$ 3,281.11	\$ 3,796.83	\$ 166.31	\$ 456.69	\$ 268.76	\$ 208.47	\$ 24.98	\$ -	\$ 57.97	\$ -	\$ 94.93	\$ 3,382.42	\$ 5,363.00	\$ -	\$ 17,101.47
44	Schermerhorn Symphony	\$ 13,277.00	\$ -	\$ -	\$ -	\$ 326.36	\$ 253.14	\$ 36.07	\$ -	\$ -	\$ -	\$ -	\$ 4,319.73	\$ 6,007.24	\$ -	\$ 24,219.54
45	Nashville Public Library	\$ 6,056.28	\$ -	\$ -	\$ -	\$ 675.60	\$ 524.04	\$ 56.15	\$ -	\$ -	\$ -	\$ 87.65	\$ 11,578.47	\$ 6,171.37	\$ -	\$ 25,149.56
49	Viridian Residential	\$ 10,818.56	\$ -	\$ -	\$ -	\$ 84.19	\$ 65.31	\$ 27.19	\$ -	\$ -	\$ -	\$ 968.26	\$ 1,766.48	\$ -	\$ -	\$ 13,729.99
51	State Government of TN	\$ 136,594.49	\$ 93,353.04	\$ -	\$ -	\$ 5,859.44	\$ 4,544.97	\$ -	\$ -	\$ 1,572.17	\$ -	\$ 6,730.93	\$ 86,202.73	\$ 87,310.72	\$ -	\$ 422,168.49
Grand Totals:		\$ 337,753.73	\$ 271,760.76	\$ 7,814.34	\$ 21,458.54	\$ 18,021.15	\$ 13,978.38	\$ 1,343.34	\$ -	\$ 4,296.07	\$ 5,803.25	\$ 12,347.04	\$ 272,995.33	\$ 249,819.13	\$ -	\$ 1,217,391.06
Rate Calculation Totals:		\$ 380,365.98	\$ 375,374.45	\$ 12,352.98	\$ 33,922.08	\$ 18,033.32	\$ 13,987.76	\$ 1,855.83	\$ -	\$ 4,305.89	\$ 5,803.25	\$ 12,347.04	\$ 273,043.56	\$ 250,309.17	\$ -	\$ 1,381,701.31
Deviation:		\$ (42,612.25)	\$ (103,613.69)	\$ (4,538.64)	\$ (12,463.54)	\$ (12.17)	\$ (9.38)	\$ (512.49)	\$ -	\$ (9.82)	\$ -	\$ -	\$ (48.23)	\$ (490.04)	\$ -	\$ (164,310.25)

*Metro Nashville District Energy System
FY 10 - 11*

Chilled Water and Steam Revenues

April, 11

Customer Number	Customer Name	Capacity	Operating	EDS Improvement	Metro Incremental	Water And Sewer	Chemical Treatment	Engineering	Insurance	EDS Electricity	EDS Maint Costs Alloc	TIFS	Electricity	Natural Gas	Propane	Total
2	A. A. Birch	\$ 12,925.57	\$ 14,538.94	\$ 636.87	\$ 1,748.88	\$ 1,554.71	\$ 681.35	\$ 95.67	\$ -	\$ 184.38	\$ -	\$ 1,385.80	\$ 12,132.62	\$ 12,956.50	\$ 37.64	\$ 58,878.93
4	Metro Courthouse	\$ 6,118.95	\$ 6,784.13	\$ 297.19	\$ 816.09	\$ 479.20	\$ 210.02	\$ 44.65	\$ -	\$ 86.04	\$ -	\$ 668.98	\$ 4,502.79	\$ 2,777.86	\$ 8.07	\$ 22,793.97
7	Parkway Towers	\$ 5,578.49	\$ 6,582.06	\$ 288.30	\$ 791.67	\$ 682.21	\$ 298.98	\$ 43.31	\$ -	\$ 83.46	\$ 620.00	\$ -	\$ 6,324.28	\$ 4,091.58	\$ 11.89	\$ 25,396.23
9	Wachovia	\$ 2,056.20	\$ 2,385.72	\$ 104.50	\$ 286.96	\$ 386.56	\$ 169.41	\$ 15.69	\$ -	\$ 30.25	\$ 222.83	\$ -	\$ 3,378.48	\$ 2,645.08	\$ 7.68	\$ 11,689.36
10	401 Union	\$ 2,842.05	\$ 3,416.13	\$ 149.62	\$ 410.86	\$ -	\$ -	\$ 22.48	\$ -	\$ 43.32	\$ 271.26	\$ -	\$ -	\$ -	\$ -	\$ 7,155.72
11	Sheraton Hotel	\$ 11,770.71	\$ 13,220.30	\$ 579.10	\$ 1,590.26	\$ 1,313.37	\$ 575.58	\$ 86.99	\$ -	\$ 167.66	\$ 1,075.50	\$ -	\$ 9,205.74	\$ 12,607.65	\$ 36.63	\$ 52,229.49
12	Municipal Auditorium	\$ 5,906.91	\$ 7,025.46	\$ 307.71	\$ 844.99	\$ 31.42	\$ 13.77	\$ 46.22	\$ -	\$ 89.08	\$ -	\$ -	\$ 328.63	\$ 128.84	\$ 0.37	\$ 14,723.40
21	Hermitage Hotel	\$ 5,685.44	\$ 6,198.83	\$ 271.56	\$ 745.71	\$ 615.42	\$ 269.71	\$ 40.80	\$ -	\$ 78.62	\$ 242.17	\$ 466.18	\$ 5,223.24	\$ 4,458.65	\$ 12.95	\$ 24,309.28
24	Criminal Justice Center	\$ 9,613.57	\$ 10,191.78	\$ 446.51	\$ 1,226.12	\$ 923.63	\$ 404.78	\$ 67.08	\$ -	\$ 129.27	\$ -	\$ 541.82	\$ 8,797.48	\$ 5,164.78	\$ 15.00	\$ 37,521.82
25	501 Union Association	\$ 2,241.64	\$ 2,498.92	\$ 109.47	\$ 300.60	\$ 168.40	\$ 73.80	\$ 16.45	\$ -	\$ 31.69	\$ 203.42	\$ 152.63	\$ 1,789.14	\$ 646.65	\$ 1.88	\$ 8,234.69
28	Sun Trust Bank	\$ 18,241.44	\$ -	\$ -	\$ -	\$ 462.09	\$ 202.52	\$ 50.02	\$ -	\$ -	\$ -	\$ 72.19	\$ 4,947.29	\$ 1,714.45	\$ 4.98	\$ 25,694.98
29	Fifth Third Financial Center	\$ 6,850.74	\$ 9,249.43	\$ 405.02	\$ 1,112.20	\$ 527.46	\$ 231.16	\$ 60.85	\$ -	\$ 117.26	\$ 687.83	\$ 40.25	\$ 6,875.52	\$ -	\$ -	\$ 26,157.72
32	Renaissance Hotel	\$ 14,120.55	\$ 15,416.40	\$ 675.35	\$ 1,854.55	\$ 1,761.06	\$ 771.78	\$ 101.45	\$ -	\$ 195.52	\$ 1,278.83	\$ -	\$ 14,753.68	\$ 13,065.95	\$ 37.96	\$ 64,033.08
33	Convention Center	\$ 17,387.01	\$ 19,517.82	\$ 854.97	\$ 2,347.80	\$ 1,542.15	\$ 675.85	\$ 128.43	\$ -	\$ 247.52	\$ -	\$ -	\$ 14,406.49	\$ 9,073.40	\$ 26.36	\$ 66,207.80
34	Renaissance Office Tower	\$ 2,640.46	\$ 3,564.98	\$ 156.10	\$ 428.67	\$ 124.26	\$ 54.46	\$ 23.45	\$ -	\$ 45.19	\$ 198.67	\$ -	\$ 1,619.75	\$ -	\$ -	\$ 8,855.99
35	St. Mary of the Seven	\$ 872.36	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 29.08	\$ -	\$ -	\$ -	\$ -	\$ 901.44
36	Nashville City Center	\$ 5,583.05	\$ 7,537.89	\$ 330.07	\$ 906.40	\$ 711.63	\$ 311.88	\$ 49.59	\$ -	\$ 95.56	\$ 658.83	\$ -	\$ 9,276.18	\$ -	\$ -	\$ 25,461.08
38	Wildhorse Saloon	\$ 2,203.14	\$ 2,636.88	\$ 115.50	\$ 317.14	\$ 391.33	\$ 171.51	\$ 17.35	\$ -	\$ 33.43	\$ 159.83	\$ 44.19	\$ 3,513.15	\$ 2,529.68	\$ 7.35	\$ 12,140.48
39	Ryman Auditorium	\$ 2,144.18	\$ 2,588.92	\$ 113.39	\$ 311.37	\$ 486.14	\$ 213.05	\$ 17.04	\$ -	\$ 32.83	\$ 155.00	\$ -	\$ 3,963.92	\$ 3,780.29	\$ 10.98	\$ 13,817.11
40	Sommet Center	\$ 23,091.38	\$ 27,954.14	\$ 1,224.32	\$ 3,362.06	\$ 4,079.70	\$ 1,787.94	\$ 183.92	\$ -	\$ 354.46	\$ -	\$ 598.16	\$ 40,405.14	\$ 20,349.99	\$ 59.12	\$ 123,450.33
41	LP Field	\$ 9,852.45	\$ 13,302.16	\$ 582.48	\$ 1,599.52	\$ 596.21	\$ 261.29	\$ 87.51	\$ -	\$ 168.63	\$ -	\$ 57.89	\$ 7,771.71	\$ -	\$ -	\$ 34,279.85
43	Hume Fogg School	\$ 3,281.11	\$ 3,796.83	\$ 166.31	\$ 456.69	\$ 452.59	\$ 198.35	\$ 24.98	\$ -	\$ 48.15	\$ -	\$ 80.11	\$ 3,234.53	\$ 4,245.53	\$ 12.33	\$ 15,997.51
44	Schermerhorn Symphony	\$ 13,277.00	\$ -	\$ -	\$ -	\$ 603.24	\$ 264.37	\$ 36.07	\$ -	\$ -	\$ -	\$ -	\$ 4,761.90	\$ 4,940.69	\$ 14.35	\$ 23,897.62
45	Nashville Public Library	\$ 6,056.28	\$ -	\$ -	\$ -	\$ 1,149.88	\$ 503.93	\$ 56.15	\$ -	\$ -	\$ -	\$ 80.07	\$ 11,894.45	\$ 4,929.49	\$ 14.32	\$ 24,684.57
49	Viridian Residential	\$ 10,818.56	\$ -	\$ -	\$ -	\$ 203.13	\$ 89.02	\$ 27.19	\$ -	\$ -	\$ -	\$ 443.56	\$ 2,647.86	\$ -	\$ -	\$ 14,229.32
51	State Government of TN	\$ 136,594.49	\$ 93,353.04	\$ -	\$ -	\$ 9,016.92	\$ 3,951.69	\$ -	\$ -	\$ 1,305.78	\$ -	\$ 6,371.63	\$ 81,475.14	\$ 57,447.50	\$ 166.88	\$ 389,683.07
Grand Totals:		\$ 337,753.73	\$ 271,760.76	\$ 7,814.34	\$ 21,458.54	\$ 28,262.71	\$ 12,386.20	\$ 1,343.34	\$ -	\$ 3,568.10	\$ 5,803.25	\$ 11,003.46	\$ 263,229.11	\$ 167,554.56	\$ 486.74	\$ 1,132,424.84
Rate Calculation Totals:		\$ 380,365.98	\$ 375,374.45	\$ 12,352.98	\$ 33,922.08	\$ 28,278.70	\$ 12,392.49	\$ 1,855.83	\$ -	\$ 3,576.33	\$ 5,803.25	\$ 11,003.46	\$ 263,298.93	\$ 167,774.43	\$ 487.41	\$ 1,296,486.32
Deviation:		\$ (42,612.25)	\$ (103,613.69)	\$ (4,538.64)	\$ (12,463.54)	\$ (15.99)	\$ (6.29)	\$ (512.49)	\$ -	\$ (8.23)	\$ -	\$ -	\$ (69.82)	\$ (219.87)	\$ (0.67)	\$ (164,061.48)

Metro Nashville District Energy System
FY 10 - 11

Chilled Water and Steam Revenues

May, 11

Customer Number	Customer Name	Capacity	Operating	EDS Improvement	Micro Incremental	Water And Sewer	Chemical Treatment	Engineering	Insurance	EDS Electricity	EDS Maint Costs Alloc	TIFS	Electricity	Natural Gas	Propane	Total
2	A. A. Birch	\$ 12,925.57	\$ 14,538.94	\$ 636.87	\$ 1,748.88	\$ 1,894.78	\$ 713.02	\$ 95.67	\$ -	\$ 213.87	\$ -	\$ 1,345.28	\$ 14,948.63	\$ 12,723.03	\$ -	\$ 61,784.54
4	Metro Courthouse	\$ 6,118.95	\$ 6,784.13	\$ 297.19	\$ 816.09	\$ 619.92	\$ 233.28	\$ 44.65	\$ -	\$ 99.80	\$ -	\$ 622.23	\$ 5,967.12	\$ 2,904.59	\$ -	\$ 24,507.95
7	Parkway Towers	\$ 5,578.49	\$ 6,582.06	\$ 288.30	\$ 791.67	\$ 745.86	\$ 280.66	\$ 43.31	\$ -	\$ 96.81	\$ 620.00	\$ -	\$ 7,358.91	\$ 3,284.69	\$ -	\$ 25,670.76
9	Wachovia	\$ 2,056.20	\$ 2,385.72	\$ 104.50	\$ 286.96	\$ 444.78	\$ 167.37	\$ 15.69	\$ -	\$ 35.10	\$ 222.83	\$ 58.66	\$ 4,028.66	\$ 2,379.17	\$ -	\$ 12,185.64
10	401 Union	\$ 2,842.05	\$ 3,416.13	\$ 149.62	\$ 410.86	\$ -	\$ -	\$ 22.48	\$ -	\$ 50.24	\$ 271.26	\$ -	\$ -	\$ -	\$ -	\$ 7,162.64
11	Sheraton Hotel	\$ 11,770.71	\$ 13,220.30	\$ 579.10	\$ 1,590.26	\$ 1,638.36	\$ 616.53	\$ 86.99	\$ -	\$ 194.47	\$ 1,075.50	\$ -	\$ 12,562.99	\$ 11,425.19	\$ -	\$ 54,760.40
12	Municipal Auditorium	\$ 5,906.91	\$ 7,025.46	\$ 307.71	\$ 844.99	\$ 129.88	\$ 48.87	\$ 46.22	\$ -	\$ 103.33	\$ -	\$ -	\$ 1,737.65	\$ 38.71	\$ -	\$ 16,189.73
21	Hermitage Hotel	\$ 5,685.44	\$ 6,198.83	\$ 271.56	\$ 745.71	\$ 701.11	\$ 263.83	\$ 40.80	\$ -	\$ 91.19	\$ 242.17	\$ 497.05	\$ 6,270.38	\$ 3,843.90	\$ -	\$ 24,851.97
24	Criminal Justice Center	\$ 9,613.57	\$ 10,191.78	\$ 446.51	\$ 1,226.12	\$ 978.45	\$ 368.19	\$ 67.08	\$ -	\$ 149.95	\$ -	\$ 541.82	\$ 9,823.70	\$ 4,110.56	\$ -	\$ 37,517.73
25	501 Union Association	\$ 2,241.64	\$ 2,498.92	\$ 109.47	\$ 300.60	\$ 137.25	\$ 51.64	\$ 16.45	\$ -	\$ 36.76	\$ 203.42	\$ 164.78	\$ 1,871.23	\$ -	\$ -	\$ 7,632.16
28	Sun Trust Bank	\$ 18,241.44	\$ -	\$ -	\$ -	\$ 533.08	\$ 200.59	\$ 50.02	\$ -	\$ -	\$ -	\$ -	\$ 7,268.15	\$ -	\$ -	\$ 26,293.28
29	Fifth Third Financial Center	\$ 6,850.74	\$ 9,249.43	\$ 405.02	\$ 1,112.20	\$ 592.74	\$ 223.03	\$ 60.85	\$ -	\$ 136.01	\$ 687.83	\$ 64.40	\$ 8,081.52	\$ -	\$ -	\$ 27,463.77
32	Renaissance Hotel	\$ 14,120.55	\$ 15,416.40	\$ 675.35	\$ 1,854.55	\$ 2,159.96	\$ 812.80	\$ 101.45	\$ -	\$ 226.79	\$ 1,278.83	\$ -	\$ 18,677.72	\$ 12,590.38	\$ -	\$ 67,914.78
33	Convention Center	\$ 17,387.01	\$ 19,517.82	\$ 854.97	\$ 2,347.80	\$ 1,724.80	\$ 649.04	\$ 128.43	\$ -	\$ 287.11	\$ -	\$ -	\$ 16,796.04	\$ 7,854.94	\$ -	\$ 67,547.96
34	Renaissance Office Tower	\$ 2,640.46	\$ 3,564.98	\$ 156.10	\$ 428.67	\$ 136.26	\$ 51.27	\$ 23.45	\$ -	\$ 52.42	\$ 198.67	\$ -	\$ 1,857.82	\$ -	\$ -	\$ 9,110.10
35	St. Mary of the Seven	\$ 872.36	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 29.08	\$ -	\$ -	\$ -	\$ -	\$ 901.44
36	Nashville City Center	\$ 5,583.05	\$ 7,537.89	\$ 330.07	\$ 906.40	\$ 856.39	\$ 322.24	\$ 49.59	\$ -	\$ 110.84	\$ 658.83	\$ -	\$ 11,676.12	\$ -	\$ -	\$ 28,031.42
38	Wildhorse Saloon	\$ 2,203.14	\$ 2,636.88	\$ 115.50	\$ 317.14	\$ 449.91	\$ 169.30	\$ 17.35	\$ -	\$ 38.78	\$ 159.83	\$ 42.42	\$ 4,182.96	\$ 2,280.62	\$ -	\$ 12,613.83
39	Ryman Auditorium	\$ 2,144.18	\$ 2,588.92	\$ 113.39	\$ 311.37	\$ 609.27	\$ 229.27	\$ 17.04	\$ -	\$ 38.08	\$ 155.00	\$ -	\$ 5,092.12	\$ 3,757.68	\$ -	\$ 15,056.32
40	Sommet Center	\$ 23,091.38	\$ 27,954.14	\$ 1,224.32	\$ 3,362.06	\$ 4,311.27	\$ 1,622.34	\$ 183.92	\$ -	\$ 411.15	\$ -	\$ 328.02	\$ 39,625.73	\$ 22,389.10	\$ -	\$ 124,503.43
41	LP Field	\$ 9,852.45	\$ 13,302.16	\$ 582.48	\$ 1,599.52	\$ 975.57	\$ 367.08	\$ 87.51	\$ -	\$ 195.60	\$ -	\$ -	\$ 13,301.02	\$ -	\$ -	\$ 40,263.39
43	Hume Fogg School	\$ 3,281.11	\$ 3,796.83	\$ 166.31	\$ 456.69	\$ 544.52	\$ 204.91	\$ 24.98	\$ -	\$ 55.85	\$ -	\$ 69.46	\$ 3,814.69	\$ 4,218.79	\$ -	\$ 16,634.14
44	Schermerhorn Symphony	\$ 13,277.00	\$ -	\$ -	\$ -	\$ 692.78	\$ 260.70	\$ 36.07	\$ -	\$ -	\$ -	\$ -	\$ 5,137.72	\$ 5,035.20	\$ -	\$ 24,439.47
45	Nashville Public Library	\$ 6,056.28	\$ -	\$ -	\$ -	\$ 1,407.87	\$ 529.78	\$ 56.15	\$ -	\$ -	\$ -	\$ 77.96	\$ 14,416.61	\$ 5,585.35	\$ -	\$ 28,130.00
49	Viridian Residential	\$ 10,818.56	\$ -	\$ -	\$ -	\$ 262.69	\$ 98.85	\$ 27.19	\$ -	\$ -	\$ -	\$ 302.92	\$ 3,581.62	\$ -	\$ -	\$ 15,091.83
51	State Government of TN	\$ 136,594.49	\$ 93,353.04	\$ -	\$ -	\$ 10,368.45	\$ 3,901.65	\$ -	\$ -	\$ 1,514.63	\$ -	\$ 5,915.15	\$ 99,255.98	\$ 49,219.40	\$ -	\$ 400,122.79
Grand Totals:		\$ 337,753.73	\$ 271,760.76	\$ 7,814.34	\$ 21,458.54	\$ 32,915.95	\$ 12,386.24	\$ 1,343.34	\$ -	\$ 4,138.78	\$ 5,803.25	\$ 10,030.15	\$ 317,335.09	\$ 153,641.30	\$ -	\$ 1,176,381.47
Rate Calculation Totals:		\$ 380,365.98	\$ 375,374.45	\$ 12,352.98	\$ 33,922.08	\$ 32,927.66	\$ 12,392.49	\$ 1,855.83	\$ -	\$ 4,148.30	\$ 5,803.25	\$ 10,030.15	\$ 317,433.01	\$ 153,713.49	\$ -	\$ 1,340,319.67
Deviation:		\$ (42,612.25)	\$ (103,613.69)	\$ (4,538.64)	\$ (12,463.54)	\$ (11.71)	\$ (6.25)	\$ (512.49)	\$ -	\$ (9.52)	\$ -	\$ -	\$ (97.92)	\$ (72.19)	\$ -	\$ (163,938.20)

Metro Nashville District Energy System
FY 10 - 11

Chilled Water and Steam Revenues

June, 11

Customer Number	Customer Name	Capacity	Operating	EDS Improvement	Metro Incremental	Water And Sewer	Chemical Treatment	Engineering	Insurance	EDS Electricity	EDS Maint Costs Alloc	TIFS	Electricity	Natural Gas	Propane	Total
2	A. A. Birch	\$ 12,925.57	\$ 14,538.94	\$ 636.87	\$ 1,748.88	\$ 2,739.09	\$ 713.43	\$ 95.67	\$ -	\$ 218.11	\$ -	\$ 1,021.12	\$ 28,923.30	\$ 9,632.64	\$ 12.21	\$ 73,205.83
4	Metro Courthouse	\$ 6,118.95	\$ 6,784.13	\$ 297.19	\$ 816.09	\$ 903.63	\$ 235.38	\$ 44.65	\$ -	\$ 101.77	\$ -	\$ 539.50	\$ 12,345.99	\$ 2,018.84	\$ 2.56	\$ 30,208.68
7	Parkway Towers	\$ 5,578.49	\$ 6,582.06	\$ 288.30	\$ 791.67	\$ 668.59	\$ 174.17	\$ 43.31	\$ -	\$ 98.73	\$ 620.00	\$ -	\$ 12,639.53	\$ 45.18	\$ 0.06	\$ 27,530.09
9	Wachovia	\$ 2,056.20	\$ 2,385.72	\$ 104.50	\$ 286.96	\$ 717.99	\$ 187.02	\$ 15.69	\$ -	\$ 35.79	\$ 222.83	\$ 76.26	\$ 8,204.33	\$ 2,267.64	\$ 2.87	\$ 16,563.80
10	401 Union	\$ 2,842.05	\$ 3,416.13	\$ 149.62	\$ 410.86	\$ -	\$ -	\$ 22.48	\$ -	\$ 51.24	\$ 271.26	\$ -	\$ -	\$ -	\$ -	\$ 7,163.64
11	Sheraton Hotel	\$ 11,770.71	\$ 13,220.30	\$ 579.10	\$ 1,590.26	\$ 2,813.58	\$ 732.81	\$ 86.99	\$ -	\$ 198.32	\$ 1,075.50	\$ -	\$ 27,117.42	\$ 10,966.02	\$ 13.90	\$ 70,164.91
12	Municipal Auditorium	\$ 5,906.91	\$ 7,025.46	\$ 307.71	\$ 844.99	\$ 376.84	\$ 98.17	\$ 46.22	\$ -	\$ 105.38	\$ -	\$ 185.24	\$ 7,032.32	\$ 63.40	\$ 0.08	\$ 21,992.72
21	Hermitage Hotel	\$ 5,685.44	\$ 6,198.83	\$ 271.56	\$ 745.71	\$ 854.72	\$ 222.63	\$ 40.80	\$ -	\$ 93.00	\$ 242.17	\$ 456.92	\$ 10,867.53	\$ 2,244.43	\$ 2.85	\$ 27,926.59
24	Criminal Justice Center	\$ 9,613.57	\$ 10,191.78	\$ 446.51	\$ 1,226.12	\$ 1,512.25	\$ 393.89	\$ 67.08	\$ -	\$ 152.91	\$ -	\$ 541.82	\$ 18,436.49	\$ 4,298.16	\$ 5.45	\$ 46,886.03
25	501 Union Association	\$ 2,241.64	\$ 2,498.92	\$ 109.47	\$ 300.60	\$ 219.73	\$ 57.24	\$ 16.45	\$ -	\$ 37.49	\$ 203.42	\$ 131.02	\$ 4,189.91	\$ -	\$ -	\$ 10,005.89
28	Sun Trust Bank	\$ 18,241.44	\$ -	\$ -	\$ -	\$ 1,013.91	\$ 264.13	\$ 50.09	\$ -	\$ -	\$ -	\$ -	\$ 19,333.52	\$ -	\$ -	\$ 38,903.09
29	Fifth Third Financial Center	\$ 6,850.74	\$ 9,249.43	\$ 405.02	\$ 1,112.20	\$ 915.57	\$ 238.51	\$ 60.85	\$ -	\$ 138.71	\$ 687.83	\$ 32.20	\$ 17,458.33	\$ -	\$ -	\$ 37,149.39
32	Renaissance Hotel	\$ 14,120.55	\$ 15,416.40	\$ 675.35	\$ 1,854.55	\$ 2,434.08	\$ 634.03	\$ 101.45	\$ -	\$ 231.28	\$ 1,278.83	\$ -	\$ 33,926.04	\$ 5,161.16	\$ 6.54	\$ 75,840.26
33	Convention Center	\$ 17,387.01	\$ 19,517.82	\$ 854.97	\$ 2,347.80	\$ 2,226.71	\$ 580.05	\$ 128.43	\$ -	\$ 292.79	\$ -	\$ -	\$ 37,376.13	\$ 2,100.98	\$ 2.66	\$ 82,815.35
34	Renaissance Office Tower	\$ 2,640.46	\$ 3,564.98	\$ 156.10	\$ 428.67	\$ 359.54	\$ 93.66	\$ 23.45	\$ -	\$ 53.46	\$ 198.67	\$ -	\$ 6,855.84	\$ -	\$ -	\$ 14,374.83
35	St. Mary of the Seven	\$ 872.36	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 29.08	\$ -	\$ -	\$ -	\$ -	\$ 901.44
36	Nashville City Center	\$ 5,583.05	\$ 7,537.89	\$ 330.07	\$ 906.40	\$ 1,304.14	\$ 339.74	\$ 49.59	\$ -	\$ 113.04	\$ 658.83	\$ -	\$ 24,867.70	\$ -	\$ -	\$ 41,690.45
38	Wildhorse Saloon	\$ 2,203.14	\$ 2,636.88	\$ 115.50	\$ 317.14	\$ 777.08	\$ 202.41	\$ 17.35	\$ -	\$ 39.55	\$ 159.83	\$ 44.19	\$ 9,284.43	\$ 2,286.82	\$ 2.90	\$ 18,087.22
39	Ryman Auditorium	\$ 1,815.76	\$ 2,145.52	\$ 93.98	\$ 258.05	\$ 1,036.50	\$ 269.96	\$ 14.12	\$ -	\$ 32.18	\$ 155.00	\$ -	\$ 10,590.72	\$ 3,791.43	\$ 4.81	\$ 20,208.03
40	Sommet Center	\$ 23,091.38	\$ 27,954.14	\$ 1,224.32	\$ 3,362.06	\$ 5,949.29	\$ 1,549.59	\$ 183.92	\$ -	\$ 419.29	\$ -	\$ -	\$ 69,270.15	\$ 18,256.66	\$ 23.14	\$ 151,283.94
41	LP Field	\$ 9,852.45	\$ 13,302.16	\$ 582.48	\$ 1,599.52	\$ 2,127.45	\$ 554.21	\$ 87.51	\$ -	\$ 199.48	\$ -	\$ 57.89	\$ 40,566.94	\$ -	\$ -	\$ 68,930.09
43	Hume Fogg School	\$ 3,281.11	\$ 3,796.83	\$ 166.31	\$ 456.69	\$ 864.15	\$ 225.07	\$ 24.98	\$ -	\$ 56.96	\$ -	\$ 62.52	\$ 6,539.65	\$ 4,107.43	\$ 5.21	\$ 19,586.91
44	Schermerhorn Symphony	\$ 13,277.00	\$ -	\$ -	\$ -	\$ 1,207.83	\$ 314.59	\$ 36.13	\$ -	\$ -	\$ -	\$ -	\$ 11,054.61	\$ 4,949.91	\$ 6.27	\$ 30,846.34
45	Nashville Public Library	\$ 6,056.28	\$ -	\$ -	\$ -	\$ 1,973.41	\$ 514.03	\$ 56.23	\$ -	\$ -	\$ -	\$ 80.07	\$ 25,550.85	\$ 4,992.18	\$ 6.33	\$ 39,229.38
49	Viridian Residential	\$ 10,818.56	\$ -	\$ -	\$ -	\$ 447.15	\$ 116.48	\$ 27.25	\$ -	\$ -	\$ -	\$ 140.64	\$ 8,526.35	\$ -	\$ -	\$ 20,076.43
51	State Government of TN	\$ 136,594.49	\$ 93,353.04	\$ -	\$ -	\$ 14,135.72	\$ 3,682.02	\$ -	\$ -	\$ 1,544.59	\$ -	\$ 5,029.56	\$ 190,476.56	\$ 32,678.52	\$ 41.41	\$ 477,535.91
	Grand Totals:	\$ 337,425.31	\$ 271,317.36	\$ 7,794.93	\$ 21,405.22	\$ 47,578.95	\$ 12,393.22	\$ 1,340.69	\$ -	\$ 4,214.07	\$ 5,803.25	\$ 8,398.95	\$ 641,434.64	\$ 109,861.40	\$ 139.25	\$ 1,469,107.24
	Rate Calculation Totals:	\$ 380,365.98	\$ 375,374.45	\$ 12,352.98	\$ 33,922.08	\$ 47,588.74	\$ 12,392.49	\$ 1,855.83	\$ -	\$ 4,230.54	\$ 5,803.25	\$ 8,398.95	\$ 641,622.83	\$ 109,861.44	\$ 139.26	\$ 1,633,908.82
	Deviation:	\$ (42,940.67)	\$ (104,057.09)	\$ (4,558.05)	\$ (12,516.86)	\$ (9.79)	\$ 0.73	\$ (515.14)	\$ -	\$ (16.47)	\$ -	\$ -	\$ (188.19)	\$ (0.04)	\$ (0.01)	\$ (164,801.58)

Metro Nashville District Energy System
FY 10 - 11

Chilled Water and Steam Revenues

True Up

Customer Number	Customer Name	Capacity	Operating	EDS Improvement	Metro Incremental	Water And Sewer	Chemical Treatment	Engineering	Insurance	EDS Electricity	EDS Maint Costs Alloc	TIFS	Electricity	Natural Gas	Propane	Total
2	A. A. Birch	\$ -	\$ -	\$ -	\$ (1,233.83)	\$ (191.89)	\$ 800.79	\$ 322.35	\$ -	\$ -	\$ -	\$ -	\$ (774.33)	\$ (704.24)	\$ -	\$ (1,781.15)
4	Metro Courthouse	\$ -	\$ -	\$ -	\$ (575.75)	\$ (77.35)	\$ 284.58	\$ 150.42	\$ -	\$ -	\$ -	\$ -	\$ (282.71)	\$ (203.29)	\$ -	\$ (704.10)
7	Parkway Towers	\$ -	\$ -	\$ -	\$ (558.52)	\$ (96.96)	\$ 350.38	\$ 145.92	\$ -	\$ -	\$ -	\$ -	\$ (349.50)	\$ (241.40)	\$ -	\$ (750.08)
9	Wachovia	\$ -	\$ -	\$ -	\$ (239.62)	\$ (49.44)	\$ 191.57	\$ 62.60	\$ -	\$ -	\$ -	\$ -	\$ (188.14)	\$ (150.29)	\$ -	\$ (373.32)
10	401 Union	\$ -	\$ -	\$ -	\$ (289.86)	\$ -	\$ -	\$ 75.73	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (214.13)
11	Sheraton Hotel	\$ -	\$ -	\$ -	\$ (1,121.93)	\$ (164.82)	\$ 760.04	\$ 293.11	\$ -	\$ -	\$ -	\$ -	\$ (720.68)	\$ (757.16)	\$ -	\$ (1,711.44)
12	Municipal Auditorium	\$ -	\$ -	\$ -	\$ (602.48)	\$ (27.00)	\$ 139.89	\$ 157.40	\$ -	\$ -	\$ -	\$ -	\$ (129.89)	\$ (156.51)	\$ -	\$ (618.59)
21	Hermitage Hotel	\$ -	\$ -	\$ -	\$ (526.09)	\$ (71.53)	\$ 262.15	\$ 137.45	\$ -	\$ -	\$ -	\$ -	\$ (260.66)	\$ (185.85)	\$ -	\$ (644.53)
24	Criminal Justice Center	\$ -	\$ -	\$ -	\$ (955.77)	\$ (159.03)	\$ 585.34	\$ 249.71	\$ -	\$ -	\$ -	\$ -	\$ (581.45)	\$ (418.44)	\$ -	\$ (1,279.64)
25	501 Union Association	\$ -	\$ -	\$ -	\$ (212.07)	\$ (33.51)	\$ 118.55	\$ 55.41	\$ -	\$ -	\$ -	\$ -	\$ (118.83)	\$ (78.06)	\$ -	\$ (268.51)
28	Sun Trust Bank	\$ -	\$ -	\$ -	\$ -	\$ (112.06)	\$ 412.50	\$ 194.35	\$ -	\$ -	\$ -	\$ -	\$ (409.75)	\$ (294.91)	\$ -	\$ (209.87)
29	Fifth Third Financial Center	\$ -	\$ -	\$ -	\$ (784.66)	\$ (116.49)	\$ 283.43	\$ 205.00	\$ -	\$ -	\$ -	\$ -	\$ (314.04)	\$ -	\$ -	\$ (726.76)
32	Renaissance Hotel	\$ -	\$ -	\$ -	\$ (1,308.39)	\$ (245.42)	\$ 950.15	\$ 341.82	\$ -	\$ -	\$ -	\$ -	\$ (933.35)	\$ (744.57)	\$ -	\$ (1,939.76)
33	Convention Center	\$ -	\$ -	\$ -	\$ (1,656.37)	\$ (255.69)	\$ 864.27	\$ 432.74	\$ -	\$ -	\$ -	\$ -	\$ (875.70)	\$ (510.72)	\$ -	\$ (2,001.47)
34	Renaissance Office Tower	\$ -	\$ -	\$ -	\$ (264.06)	\$ (44.07)	\$ 107.23	\$ 68.99	\$ -	\$ -	\$ -	\$ -	\$ (118.81)	\$ -	\$ -	\$ (250.72)
35	St. Mary of the Seven	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
36	Nashville City Center	\$ -	\$ -	\$ -	\$ (649.24)	\$ (158.12)	\$ 384.73	\$ 169.62	\$ -	\$ -	\$ -	\$ -	\$ (426.29)	\$ -	\$ -	\$ (679.30)
38	Wildhorse Saloon	\$ -	\$ -	\$ -	\$ (196.67)	\$ (56.86)	\$ 207.80	\$ 51.38	\$ -	\$ -	\$ -	\$ -	\$ (206.75)	\$ (146.50)	\$ -	\$ (347.60)
39	Ryman Auditorium	\$ -	\$ -	\$ -	\$ (206.89)	\$ (60.62)	\$ 240.08	\$ 54.05	\$ -	\$ -	\$ -	\$ -	\$ (234.69)	\$ (195.26)	\$ -	\$ (403.33)
40	Sommet Center	\$ -	\$ -	\$ -	\$ (2,371.93)	\$ (524.47)	\$ 1,795.08	\$ 619.68	\$ -	\$ -	\$ -	\$ -	\$ (1,813.39)	\$ (1,094.61)	\$ -	\$ (3,389.64)
41	LP Field	\$ -	\$ -	\$ -	\$ (1,378.98)	\$ (187.40)	\$ 455.96	\$ 360.27	\$ -	\$ -	\$ -	\$ -	\$ (505.21)	\$ -	\$ -	\$ (1,255.36)
43	Hume Fogg School	\$ -	\$ -	\$ -	\$ (322.19)	\$ (38.31)	\$ 177.51	\$ 84.17	\$ -	\$ -	\$ -	\$ -	\$ (168.17)	\$ (177.80)	\$ -	\$ (444.79)
44	Schermerhorn Symphony	\$ -	\$ -	\$ -	\$ -	\$ (71.90)	\$ 295.27	\$ 119.15	\$ -	\$ -	\$ -	\$ -	\$ (286.46)	\$ (253.80)	\$ -	\$ (197.74)
45	Nashville Public Library	\$ -	\$ -	\$ -	\$ -	\$ (169.59)	\$ 506.30	\$ 185.71	\$ -	\$ -	\$ -	\$ -	\$ (529.29)	\$ (197.60)	\$ -	\$ (204.47)
49	Viridian Residential	\$ -	\$ -	\$ -	\$ (47.08)	\$ (114.55)	\$ 114.55	\$ 104.80	\$ -	\$ -	\$ -	\$ -	\$ (126.93)	\$ -	\$ -	\$ 45.34
51	State Government of TN	\$ -	\$ -	\$ -	\$ -	\$ (1,307.02)	\$ 4,923.03	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (4,865.11)	\$ (3,676.03)	\$ -	\$ (4,925.13)
Grand Totals:		\$ -	\$ -	\$ -	\$ (15,455.30)	\$ (4,266.63)	\$ 15,211.18	\$ 4,641.83	\$ -	\$ -	\$ -	\$ -	\$ (15,220.13)	\$ (10,187.04)	\$ -	\$ (25,276.09)
Rate Calculation Totals:		\$ -	\$ -	\$ -	\$ -	\$ 114.76	\$ 15,195.89	\$ 6,252.39	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 21,563.04
Deviation:		\$ -	\$ -	\$ -	\$ (15,455.30)	\$ (4,381.39)	\$ 15.29	\$ (1,610.56)	\$ -	\$ -	\$ -	\$ -	\$ (15,220.13)	\$ (10,187.04)	\$ -	\$ (46,839.13)

Appendix 4



CE INVOICE RECONCILIATION - FY 2010 -2011

FINALIZE FUEL EFFICIENCY ADJUSTMENTS

Table with 5 columns: SUMMARY, ELECTRIC FEA, FUEL GAS FEA, WATER FEA, System TOTAL. Rows include STEAM SYSTEM, CHILLED WATER SYSTEM, and TOTAL.

Include FEA in INVOICE (YES/NO) YES

ELECTRICITY-TO-STEAM CONVERSION

Table for Electricity-to-Steam Conversion with columns for CONTRACTUAL GUARANTEE, Metering Inaccuracy Buffer, GUARANTEED MAX QUANTITY, CEPS FUEL EFFICIENCY ADJUSTME, CEPS ACTUAL CONVERSION RATE, CES PENALTY/BONUS CALCULATION, PENALTY, and BONUS.

FUEL GAS-TO-STEAM CONVERSION

Table for Fuel Gas-to-Steam Conversion with columns for CONTRACTUAL GUARANTEE (varies by Condensate Return), Given Condensate Return at, 167 °F, GUARANTEED MAX QUANTITY, CEPS FUEL EFFICIENCY ADJUSTME, CEPS ACTUAL CONVERSION RATE, CES PENALTY/BONUS CALCULATION, PENALTY, and BONUS.

WATER-TO-STEAM CONVERSION

Table for Water-to-Steam Conversion with columns for CONTRACTUAL GUARANTEE (varies by Plant Send-out), PLANT LOSSES, VOLUMETRIC CONVERSION, CONDENSATE RETURN SPEC. VOL., GUARANTEED MAX QUANTITY, CEPS ACTUAL USE, CES PENALTY/BONUS CALCULATION, PENALTY, and BONUS.

ELECTRICITY-TO-CHILLED WATER CONVERSION

Table for Electricity-to-Chilled Water Conversion with columns for CONTRACTUAL GUARANTEE, Metering Inaccuracy Buffer, GUARANTEED MAX QUANTITY, CEPS FUEL EFFICIENCY ADJUSTME, CEPS ACTUAL CONVERSION RATE, CES PENALTY/BONUS CALCULATION, PENALTY, and BONUS.

WATER-TO-CHILLED WATER CONVERSION

Table for Water-to-Chilled Water Conversion with columns for CONTRACTUAL GUARANTEE, Metering Inaccuracy Buffer, GUARANTEED MAX QUANTITY, CEPS FUEL EFFICIENCY ADJUSTME, CEPS ACTUAL CONVERSION RATE, CES PENALTY/BONUS CALCULATION, PENALTY, and BONUS.

COMPARISON PREVIOUSLY BILLED VS. RECONCILED AMOUNTS

Comparison table with columns for STEAM SYSTEM (ELECTRIC, FUEL GAS, WATER, TOTAL) and CHILLED WATER SYSTEM (ELECTRIC, FUEL GAS, WATER, TOTAL), including CALCULATED, RECONCILED, and VARIANCE.

COMPARISON AMOUNT COLLECTED BY METRO VS 97-13 CAP

Table comparing FEA COLLECTED BY METRO (STEAM, FUEL GAS, WATER, TOTAL) with METRO PAID (CE) and METRO OWES (CUSTOMER).



NASHVILLE, TENNESSEE

CE INVOICE RECONCILIATION - FY 2010 -2011

SALES SUMMARY FROM CUSTOMER METER READS														
MONTH		7	8	9	10	11	12	1	2	3	4	5	6	TOTAL
STEAM SALES	Previously invoiced, lbs	6,401,376	6,050,882	8,108,361	15,448,364	26,203,045	52,179,617	51,326,131	38,061,306	30,410,395	18,748,566	16,105,622	6,881,556	275,925,221
	Reconciled, lbs	6,401,376	6,050,882	8,108,361	15,448,364	26,203,045	52,179,617	51,326,131	38,061,306	30,410,395	18,748,566	16,105,622	6,881,556	275,925,221
CHW SALES	Previously invoiced, ton-hrs	7,749,702	7,658,861	5,977,816	4,072,681	3,076,341	2,601,170	2,545,117	2,778,709	3,353,225	4,250,563	5,083,772	7,398,279	56,546,236
	Reconciled, ton-hrs	7,749,702	7,658,861	5,977,816	4,072,681	3,076,341	2,601,170	2,545,117	2,778,709	3,353,225	4,250,563	5,083,772	7,398,279	56,546,236
SUMMARY FROM CUSTOMER METER READS from INVOICES (paste link)														
START DATE		07/01/10	06/01/10	09/01/10	10/01/10	11/01/10	12/01/10	01/01/11	02/01/11	03/01/11	04/01/11	04/01/11	06/01/11	06/01/10
END DATE		07/31/10	08/31/09	09/30/10	10/31/10	11/30/10	12/31/10	01/31/11	02/28/11	03/31/11	04/30/11	04/30/11	06/30/11	06/30/11
CHW SALES	ton-hrs	7,749,702	7,658,861	5,977,816	4,072,681	3,076,341	2,601,170	2,545,117	2,778,709	3,353,225	4,250,563	5,083,772	7,398,279	56,546,236
CHW SENDOUT	ton-hrs	9,007,200	8,699,800	6,749,900	4,763,900	3,579,700	2,903,600	2,752,800	3,104,400	3,818,100	4,978,300	6,002,400	7,993,700	64,353,800
CHW ELECTRIC	kWh	6,881,791	6,754,385	4,911,978	3,298,521	2,523,376	2,099,850	2,030,507	2,147,623	2,660,730	3,451,866	4,236,834	6,012,528	47,009,988
CHW MUW	galls	15,897,000	15,149,000	11,681,000	7,329,000	4,994,000	3,588,000	3,374,000	4,030,000	5,389,000	7,499,000	9,237,000	13,121,000	101,288,000
STEAM SALES	mbs	6,401	6,051	8,108	15,448	26,203	52,180	51,326	38,061	30,410	18,749	16,106	8,899	277,943
STEAM SENDOUT	mbs	11,561	12,211	13,750	20,302	30,721	55,917	54,860	41,570	34,619	23,354	20,905	14,282	334,052
STEAM PRODUCTION	mbs	13,862	14,460	16,481	24,101	37,321	66,772	65,436	49,757	41,442	26,780	24,859	16,665	397,936
NATURAL GAS	mmBtu	15,800	16,673	19,032	28,416	43,183	78,378	76,171	57,399	46,901	32,000	28,384	19,615	461,952
PROPANE	mmBtu	0	0	0	0	0	57	197	4	0	29	0	8	295
STEAM ELECTRIC	kWh	43,612	47,267	46,695	52,933	75,179	126,654	124,356	93,797	87,165	53,408	52,940	47,769	851,776
CONDENSATE RETURN	galls	771,600	891,100	1,184,400	1,975,400	2,416,000	4,899,300	5,107,800	3,632,400	2,571,800	2,121,800	2,002,000	1,238,200	28,811,800
	mbs	6,293	7,268	9,660	16,111	19,705	39,958	41,658	29,625	20,975	17,305	16,328	10,099	234,985
	°F	172 °F	185 °F	181 °F	169 °F	162 °F	163 °F	164 °F	165 °F	166 °F	168 °F	167 °F	170 °F	166.6
STEAM MUW	galls	577,060	509,610	416,000	517,960	1,448,370	2,293,260	1,860,370	1,617,280	1,781,500	649,030	452,450	398,200	12,521,090
	mbs	4,816	4,253	3,472	4,323	12,087	19,138	15,525	13,497	14,867	5,416	3,776	3,323	104,492
Days in Service		31	-273	30	31	30	31	31	28	31	30	30	30	60
Efficiency - Cooling	kWh/ton-hr-Sold	0.888	0.882	0.822	0.810	0.820	0.807	0.798	0.773	0.793	0.812	0.833	0.813	0.831
Efficiency - Heating	Dth/klb-Sendout	1.367	1.365	1.384	1.400	1.406	1.403	1.392	1.381	1.355	1.371	1.358	1.374	1.384



NASHVILLE, TENNESSEE

REV: 1
DATE: 07/22/11

CE INVOICE RECONCILIATION - FY 2010 - 2011

UTILITY INVOICES (Paste Link)

Month of Service	7	8	9	10	11	12	1	2	3	4	5	6	TOTAL
ELECTRIC SERVICE (NES)													
Service Dates	From 7/1/2010	8/1/2010	9/1/2010	10/1/2010	11/1/2010	12/1/2010	1/1/2011	2/1/2011	3/1/2011	4/1/2011	5/1/2011	6/1/2011	7/1/2010
	To 7/31/2010	8/31/2010	9/30/2010	10/31/2010	11/30/2010	12/31/2010	1/31/2011	2/28/2011	3/31/2011	4/30/2011	5/31/2011	6/30/2011	6/30/2011
PEAK Demand	kWh 14,087	15,044	11,928	10,189	9,380	9,380	9,380	9,380	9,380	9,380	11,466	13,876	15,044
Service Period Use	kWh 7,000,000	6,916,000	5,012,000	3,416,000	2,676,283	2,311,578	2,238,321	2,321,746	2,839,022	3,585,111	4,370,471	6,140,066	48,826,598
Service Period Charge	\$ 553,575.49	\$ 571,995.84	\$ 441,680.28	\$ 279,008.53	\$ 215,487.58	\$ 233,623.49	\$ 230,670.88	\$ 237,201.18	\$ 273,043.56	\$ 263,298.93	\$ 317,423.01	\$ 641,622.83	\$ 4,258,631.60
Average Charge	\$/kWh 0.079100	0.082700	0.088100	0.081700	0.080500	0.101100	0.103100	0.102200	0.096200	0.073400	0.072600	0.104500	0.087220

NATURAL GAS SERVICE													
Service Dates	From 7/1/2010	8/1/2010	9/1/2010	10/1/2010	11/1/2010	12/1/2010	1/1/2011	2/1/2011	3/1/2011	4/1/2011	5/1/2011	6/1/2011	7/1/2010
	To 7/31/2010	8/31/2010	9/30/2010	10/31/2010	11/30/2010	12/31/2010	1/31/2011	2/28/2011	3/31/2011	4/30/2011	5/31/2011	6/30/2011	6/30/2011
UTILITY METER Readings	Start 265,992	281,467	297,876	316,598	344,593	387,539	464,294	539,156	595,700	641,732	672,784	700,558	6/30/2011
	Ending 281,467	297,876	316,598	344,593	387,539	464,294	539,156	595,700	641,732	672,784	700,558	719,799	
UTILITY METER Multiplier	10	10	10	10	10	10	10	10	10	10	10	10	
HEAT FACTOR	1.019	1.019	1.019	1.019	1.016	1.018	1.018	1.018	1.018	1.017	1.018	1.020	
Service Period Use	CCF 154,750	164,090	187,220	279,950	429,460	767,550	748,620	565,440	460,320	310,520	277,740	192,410	4,538,070
	Dth 15,769.0	16,720.8	19,077.7	28,526.9	43,633.1	78,136.6	76,209.5	57,561.8	46,860.6	31,579.9	28,273.9	19,625.8	461,975.6
Service Period Charges													
CONSULTANTS	\$ 6,453.38	\$ 6,453.38	\$ 6,453.38	\$ 6,453.38	\$ 6,453.38	\$ 6,453.38	\$ 6,453.38	\$ 6,453.38	\$ 6,453.38	\$ 6,453.38	\$ 6,453.38	\$ 6,453.38	77,440.56
NASHVILLE GAS	\$ 10,133.97	\$ 10,303.65	\$ 11,000.24	\$ 13,793.00	\$ 18,257.70	\$ 28,455.37	\$ 27,885.80	\$ 22,374.39	\$ 19,211.60	\$ 14,767.49	\$ 13,790.40	\$ 11,234.41	201,208.02
ATMOS	\$ 86,429.03	\$ 92,208.59	\$ 99,242.07	\$ 144,038.36	\$ 211,169.15	\$ 379,065.76	\$ 375,452.14	\$ 286,988.04	\$ 224,644.19	\$ 146,553.56	\$ 133,469.71	\$ 92,173.65	2,271,434.25
TOTAL	\$ 103,016.38	\$ 108,965.62	\$ 116,695.69	\$ 164,284.74	\$ 236,880.23	\$ 413,974.51	\$ 409,791.32	\$ 315,815.81	\$ 250,909.17	\$ 167,774.43	\$ 153,713.49	\$ 109,861.44	\$ 2,550,082.83
Average Charge	\$/Dth 6.5328	6.5168	6.1169	5.7589	5.4060	5.2981	5.3772	5.4866	5.3416	5.3127	5.4366	5.5978	5.5200

WATER SERVICE (DOMESTIC AND PLANT)													
Service Dates	From 7/1/2010	8/1/2010	9/1/2010	10/1/2010	11/1/2010	12/1/2010	1/1/2011	2/1/2011	3/1/2011	4/1/2011	5/1/2011	6/1/2011	7/1/2010
	To 7/31/2010	8/31/2010	9/30/2010	10/31/2010	11/30/2010	12/31/2010	1/31/2011	2/28/2011	3/31/2011	4/30/2011	5/31/2011	6/30/2011	6/30/2011
UTILITY METER Readings													
DOMESTIC	Start												
	Ending												
PLANT METER #1	Start												
	Ending												
PLANT METER #2	Start												
	Ending												
Service Period Use													
DOMESTIC	CCF 9	11	10	4	9	10	9	11	9	10	8	12	112
PLANT METER #1	CCF 21,894	22,186	16,951	5,297	10,620	10,306	7,918	9,519	6,954	10,955	12,778	17,451	152,829
PLANT METER #2	CCF												0
TOTAL	CCF 21,903	22,197	16,961	5,301	10,629	10,316	7,927	9,530	6,963	10,965	12,786	17,463	152,941
PLANT ONLY	CCF 21,894	22,186	16,951	5,297	10,620	10,306	7,918	9,519	6,954	10,955	12,778	17,451	152,829
GALLONS	16,376,712	16,595,128	12,679,348	3,962,156	7,943,760	7,708,888	5,922,664	7,120,212	5,201,592	8,194,340	9,557,944	13,053,348	114,316,092
Service Period Charges													
DOMESTIC	WATER \$ 42.21	\$ 46.93	\$ 44.57	\$ 30.41	\$ 42.21	\$ 44.57	\$ 42.21	\$ 46.93	\$ 42.21	\$ 44.57	\$ 39.85	\$ 51.77	\$ 518.44
	SEWER \$ 88.69	\$ 98.61	\$ 93.65	\$ 63.89	\$ 88.69	\$ 93.65	\$ 88.69	\$ 98.61	\$ 88.69	\$ 93.65	\$ 83.73	\$ 110.75	\$ 1,091.30
PLANT	WATER \$ 39,335.97	\$ 39,861.46	\$ 30,457.60	\$ 9,521.13	\$ 19,085.05	\$ 18,521.52	\$ 14,231.58	\$ 17,108.36	\$ 12,499.99	\$ 19,687.29	\$ 22,960.85	\$ 33,019.65	\$ 276,290.45
	SEWER \$ 16,694.18	\$ 16,916.83	\$ 12,925.14	\$ 4,038.96	\$ 8,097.75	\$ 7,858.33	\$ 6,037.48	\$ 7,258.24	\$ 5,302.43	\$ 8,353.19	\$ 9,743.23	\$ 14,222.57	\$ 117,448.33
STATE FEE @ 10%													
TOTAL	\$ 56,161.05	\$ 56,923.83	\$ 43,520.96	\$ 13,654.39	\$ 27,313.70	\$ 26,518.07	\$ 20,399.96	\$ 24,512.14	\$ 17,933.32	\$ 28,178.70	\$ 32,827.66	\$ 47,404.74	\$ 395,348.52
PLANT, WATER ONLY	\$ 39,335.97	\$ 39,861.46	\$ 30,457.60	\$ 9,521.13	\$ 19,085.05	\$ 18,521.52	\$ 14,231.58	\$ 17,108.36	\$ 12,499.99	\$ 19,687.29	\$ 22,960.85	\$ 33,019.65	\$ 276,290.45
Average Charge	\$/kGall 2.4019	2.4020	2.4021	2.4030	2.4025	2.4026	2.4029	2.4028	2.4031	2.4025	2.4023	2.5296	2.4169

MONTHLY FEAS													
Service Dates	From 7/1/2010	8/1/2010	9/1/2010	10/1/2010	11/1/2010	12/1/2010	1/1/2011	2/1/2011	3/1/2011	4/1/2011	5/1/2011	6/1/2011	7/1/2010
	To 7/31/2010	8/31/2010	9/30/2010	10/31/2010	11/30/2010	12/31/2010	1/31/2011	2/28/2011	3/31/2011	4/30/2011	5/31/2011	6/30/2011	6/30/2011
STEAM	ELECTRIC	-\$411.64	-\$906.72	\$43.04	\$812.18	\$1,651.10	\$4,712.22	\$4,732.14	\$3,438.65	\$2,292.11	\$1,084.06	\$793.06	\$18,387.13
	FUEL GAS	\$4,834.27	\$4,853.51	\$4,479.03	\$5,699.87	\$8,760.42	\$15,281.68	\$15,573.51	\$12,888.53	\$12,158.59	\$7,179.94	\$6,818.86	\$103,129.26
	WATER	\$96.06	\$109.48	\$94.02	\$40.73	\$54.36	-\$158.38	-\$42.09	\$30.51	\$74.80	\$118.56	\$113.15	\$649.87
CHW	ELECTRIC	\$25,592.80	\$27,394.02	\$30,677.10	\$20,380.21	\$14,549.17	\$16,304.65	\$16,859.30	\$20,020.88	\$21,129.01	\$18,953.47	\$20,484.04	\$267,307.63
	FUEL GAS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	WATER	\$14,886.56	\$15,048.40	\$11,832.07	\$8,440.99	\$6,701.71	\$6,048.02	\$5,999.46	\$6,342.85	\$7,338.95	\$8,899.74	\$10,481.59	\$116,866.53
		\$ 44,998.05	\$ 46,498.69	\$ 47,125.26	\$ 35,373.98	\$ 31,716.76	\$ 42,188.19	\$ 43,122.32	\$ 42,721.42	\$ 42,993.46	\$ 36,235.77	\$ 38,690.70	\$ 506,340.42

STEAM CAPACITY TEST ADJUSTMENTS													
Month	7	8	9	10	11	12							TOTAL
NATURAL GAS													0
USAGE CREDIT	MCF												0
	Dth												\$ -
ELECTRIC													



NASHVILLE, TENNESSEE

REV: 1
DATE: 07/22/11

4 **CE INVOICE RECONCILIATION - FY 2010 -2011**

Condensate Return Temp		172 °F	185 °F	181 °F	169 °F	162 °F	163 °F	164 °F	165 °F	166 °F	168 °F	167 °F	170 °F		167 °F
FT_4500: MUW, Stm.	Start Reading	60,263,690	60,840,750	61,350,360	61,766,360	62,284,320	63,732,690	66,025,950	67,886,320	69,503,600	71,285,100	71,934,130	72,386,580		
	End Reading	60,840,750	61,350,360	61,766,360	62,284,320	63,732,690	66,025,950	67,886,320	69,503,600	71,285,100	71,934,130	72,386,580	72,784,780		
	Period Use in units = 1 x GALL	577,060	509,610	416,000	517,960	1,448,370	2,293,260	1,860,370	1,617,280	1,781,500	649,030	452,450	398,200		12,521,090
FT_4200: MUW, CW.	Start Reading	644,620,000	660,517,000	675,666,000	687,347,000	694,676,000	699,670,000	703,258,000	706,632,000	710,662,000	716,051,000	723,550,000	732,787,000		
	End Reading	660,517,000	675,666,000	687,347,000	694,676,000	699,676,000	703,258,000	706,632,000	710,662,000	716,051,000	723,550,000	732,787,000	745,908,000		
	Period Use in units = 1 x GALL	15,897,000	15,149,000	11,681,000	7,329,000	4,994,000	3,588,000	3,374,000	4,030,000	5,389,000	7,499,000	9,237,000	13,121,000		101,288,000
FT_4100: MUW, CHW.	Start Reading	37,322,900	37,716,000	38,100,000	38,451,200	38,828,800	39,245,700	39,744,200	40,289,600	40,688,500	41,184,300	41,625,800	42,109,500		
	End Reading	37,716,000	38,100,000	38,451,200	38,828,800	39,245,700	39,744,200	40,289,600	40,688,500	41,184,300	41,625,800	42,109,500	42,666,700		
	Period Use in units = 1 x GALL	393,100	384,000	351,200	377,600	416,900	498,500	545,400	398,900	495,800	441,500	483,700	557,200		5,343,800
2" PLANT WATER	Start Reading in 10 x scft	21,770,900	22,134,300	22,488,900	22,814,700	23,124,800	23,413,500	23,723,700	24,033,100	24,305,900	24,614,300	24,910,800	25,228,800		
UTILITY METER	Start Reading in 10 x scft	22,134,300	22,488,900	22,814,700	23,124,800	23,413,500	23,723,700	24,033,100	24,305,900	24,614,300	24,910,800	25,228,800	25,553,500		
	Period Use in units = 1 x SCFT	363,400	354,600	325,800	310,100	288,700	310,200	309,400	272,800	308,400	296,300	318,200	324,700		3,782,600
6" PLANT WATER	Start Reading	94,585,500	96,478,000	98,275,500	99,625,500	100,430,500	101,064,000	101,623,500	102,103,500	102,653,000	103,388,000	104,260,000	105,317,500		
UTILITY METER	End Reading	96,478,000	98,275,500	99,625,500	100,430,500	101,064,000	101,623,500	102,103,500	102,653,000	103,388,000	104,260,000	105,317,500	106,890,000		
	Period Use in units = 1 x SCFT	1,892,500	1,797,500	1,350,000	805,000	633,500	559,500	480,000	549,500	735,000	872,000	1,057,500	1,572,500		12,304,500
2" DOMESTIC WATER	Start Reading	1,275,000.0	1,284,000.0	1,295,000.0	1,305,000.0	1,314,000.0	1,322,000.0	1,330,000.0	1,342,000.0	1,352,000.0	1,362,000.0	1,371,000.0	1,381,000.0		
UTILITY METER	End Reading	1,284,000.0	1,295,000.0	1,305,000.0	1,314,000.0	1,322,000.0	1,330,000.0	1,342,000.0	1,352,000.0	1,362,000.0	1,371,000.0	1,381,000.0	1,394,000.0		
	Period Use in units = 1 x SCFT	9,000	11,000	10,000	9,000	8,000	8,000	12,000	10,000	10,000	9,000	10,000	13,000		119,000

169 **PERFORMANCE CALCULATIONS**

Month		7	8	9	10	11	12	13	14	15	16	17	18		TOTAL
ELECTRIC-to-STEAM CONVERSION															
Emainutility	kWh	7,000,000	6,916,000	5,012,000	3,416,000	2,676,283	2,311,578	2,238,321	2,321,746	2,839,022	3,585,111	4,370,471	6,140,066		48,826,598
Echw,metered	kWh	6,834,428	6,706,468	4,866,520	3,241,026	2,478,410	2,051,780	1,982,462	2,105,079	2,613,413	3,406,777	4,189,062	5,966,470		46,441,894
Esteam,metered	kWh	43,314	46,934	46,267	52,026	73,863	123,823	121,485	91,977	85,643	52,720	52,350	47,406		837,809
Esteam,unmetered	kWh	756	1,103	916	1,873	3,423	7,284	7,293	4,940	4,222	1,847	1,546	974		36,177
CAPACITY TEST ADJUSTMENT, kWh		0	0	0	0	0	0	0	0	0	0	0	0		0
Esteam,total	kWh	44,070	48,037	47,183	53,899	77,286	131,107	128,778	96,917	89,865	54,567	53,896	48,380		873,986
Customer Steam, Sn+e	lbs	6,401,376	6,050,882	8,108,361	15,448,364	26,203,045	52,179,617	51,326,131	38,061,306	30,410,395	18,748,566	16,105,622	6,881,556		275,925,221
nelec, actual	kWh/kib	6.884	7.939	5.819	3.489	2.950	2.513	2.509	2.546	2.955	2.910	3.346	7.030		3.167
FUEL GAS-to-STEAM CONVERSION															
Metered Plant Steam Send-out	lbs	11,561,000	12,211,000	13,750,000	20,302,000	30,721,000	55,917,000	54,860,000	41,570,000	34,619,000	23,354,000	20,905,000	14,282,000		334,052,000
CAPACITY TEST ADJUSTMENT, lbs		0	0	0	0	0	0	0	0	0	0	0	0		0
ADJUSTED Plant Steam SO	lbs	11,561,000	12,211,000	13,750,000	20,302,000	30,721,000	55,917,000	54,860,000	41,570,000	34,619,000	23,354,000	20,905,000	14,282,000		334,052,000
Natural Gas use, NG	Dth	15,769.0	16,720.8	19,077.7	28,526.9	43,633.1	78,136.6	76,209.5	57,561.8	46,860.6	31,579.9	28,273.9	19,625.8		461,975.6
Propane Gas use, P	scft	0	0	0	0	0	0	0	0	0	0	0	0		0
Dth		0	0	0	0	0	57.33	196.56	4,095	0	28.665	0	8.19		294.84
CAPACITY TEST ADJUSTMENT, Dth		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0
TOTAL FUEL GAS USE	Dth	15,769.0	16,720.8	19,077.7	28,526.9	43,633.1	78,193.9	76,406.1	57,565.9	46,860.6	31,608.6	28,273.9	19,634.0		462,270.4
nhhw,actual	Dth/kib	1.364	1.369	1.377	1.405	1.420	1.398	1.393	1.385	1.354	1.353	1.352	1.375		1.3840
Condensate Return, CR	gallon	771,600	891,100	1,184,400	1,975,400	2,416,000	4,899,300	5,107,800	3,632,400	2,571,800	2,121,800	2,002,000	1,238,200		28,811,800
% of SO		54.43%	59.52%	70.25%	79.36%	64.14%	71.46%	75.94%	71.27%	60.59%	74.10%	78.11%	70.71%		70.34%
Condensate Return Energy	mmBtu	879	1,113	1,435	2,203	2,552	5,226	5,501	3,926	2,809	2,354	2,206	1,395		31,589
Condensate Return Temperature	avg	172 °F	185 °F	181 °F	169 °F	162 °F	163 °F	164 °F	165 °F	166 °F	168 °F	167 °F	170 °F		167 °F
nhhw,guarantee	Dth/kib														1.702
															CES FEA RATE
															1.607
WATER-to-STEAM CONVERSION															
Metered Steam Makeup, MW	Gallons	577,060	509,610	416,000	517,960	1,448,370	2,293,260	1,860,370	1,617,280	1,781,500	649,030	452,450	398,200		12,521,090
CAPACITY TEST ADJUSTMENT, Gallons		0	0	0	0	0	0	0	0	0	0	0	0		0
ADJUSTED Steam Makeup, MW	Gallons	577,060	509,610	416,000	517,960	1,448,370	2,293,260	1,860,370	1,617,280	1,781,500	649,030	452,450	398,200		12,521,090
Actual Steam Makeup, nwater	Gallons	582,831	514,706	420,160	523,140	1,462,854	2,316,193	1,878,974	1,633,453	1,799,315	655,520	456,975	402,182		12,646,301
Guarantee Steam Makeup, nguar.	Gallons	742,797	697,027	576,732	590,935	1,553,356	2,250,274	1,861,459	1,684,238	1,923,816	852,916	645,369	589,876		13,968,792
ELECTRICITY-to-CHW CONVERSION															
Emainutility	kWh	7,000,000	6,916,000	5,012,000	3,416,000	2,676,283	2,311,578	2,238,321	2,321,746	2,839,022	3,585,111	4,370,471	6,140,066		48,826,598
CAPACITY TEST ADJUSTMENT, kWh		0	0	0	0	0	0	0	0	0	0	0	0		0
Echw,metered	kWh	6,834,428	6,706,468	4,866,520	3,241,026	2,478,410	2,051,780	1,982,462	2,105,079	2,613,413	3,406,777	4,189,062	5,966,470		46,441,894
Esteam,total	kWh	44,070	48,037	47,183	53,899	77,286	131,107	128,778	96,917	89,865	54,567	53,896	48,380		873,986
Echw,unmetered	kWh	121,502	161,495	98,297	121,075	120,587	128,691	127,081	119,750	135,744	123,767	127,513	125,216		1,510,718
Echw,total	kWh	6,955,930	6,867,963	4,964,817	3,362,101	2,598,997	2,180,471	2,109,543	2,224,829	2,749,157	3,530,544	4,316,575	6,091,686		47,952,612
Customer CHW, CHWs+e	Ton-hrs	7,749,702	7,658,861	5,977,816	4,072,681	3,076,341	2,601,170	2,545,117	2,778,709	3,353,225	4,250,563	5,083,772	7,398,279		56,546,236
nelec, actual	kWh/ton-hr	0.898	0.897	0.831	0.826	0.845	0.838	0.829	0.801	0.820	0.831	0.849	0.823		0.848
CHW-to-CHW CONVERSION															
Condenser Water Makeup, CM	Gallons	15,897,000	15,149,000	11,681,000	7,329,000	4,994,000	3,588,000	3,374,000	4,030,000	5,389,000	7,499,000	9,237,000	13,121,000		101,288,000
Customer CHW, CHWs+e	Ton-hrs	7,749,702	7,658,861	5,977,816	4,072,681	3,076,341	2,601,170	2,545,117	2,778,709	3,353,225	4,250,563	5,083,772	7,398,279		56,546,236
nwater,actual	Gallons/ton-hr	2.0513	1.9780	1.9541	1.7996	1.6234	1.3794	1.3257	1.4503	1.6071	1.7642	1.8170	1.7735		1.7912

217 **METER CHECKS AND ESTIMATES**

4 CE INVOICE RECONCILIATION - FY 2010 -2011

		7	8	9	10	11	12	1	2	3	4	5	6	TOTAL
WATER METER CHECKS														
Utility Meters - Utility Dates	gallons	16,376,712	16,595,128	12,679,348	3,962,156	7,943,760	7,708,888	5,922,664	7,120,212	5,201,592	8,194,340	9,557,944	13,053,348	114,316,092
Utility Meters - Customer Dates	gallons	16,874,132	16,097,708	12,534,984	8,340,948	6,898,056	6,505,356	5,904,712	6,150,804	7,804,632	8,738,884	10,290,236	14,191,056	120,331,508
variance (line 184-line 183)	gallons	497,420	-497,420	-144,364	4,378,792	-1,045,704	-1,203,532	-17,952	-969,408	2,603,040	544,544	732,292	1,137,708	6,015,416
% of TOTAL (line 183)		3%	-3%	-1%	111%	-13%	-16%	0%	-14%	50%	7%	8%	9%	5.26%
Plant Meters														
CHW	gallons	393,100	384,000	351,200	377,600	416,900	498,500	545,400	398,900	495,800	441,500	483,700	557,200	5,343,800
CW	gallons	15,897,000	15,149,000	11,681,000	7,329,000	4,994,000	3,588,000	3,374,000	4,030,000	5,389,000	7,499,000	9,237,000	13,121,000	101,288,000
STEAM	gallons	577,060	509,610	416,000	517,960	1,448,370	2,293,260	1,860,370	1,617,280	1,781,500	649,030	452,450	398,200	12,521,090
TOTAL	gallons	16,867,160	16,042,610	12,448,200	8,224,560	6,859,270	6,379,760	5,779,770	6,046,180	7,666,300	8,589,530	10,173,150	14,076,400	119,152,890
variance (line 191-line 184)	gallons	-6,972	-55,098	-86,784	-116,388	-38,786	-125,596	-124,942	-104,624	-138,332	-149,354	-117,086	-114,656	-1,178,618
% of TOTAL (line 184)		0%	0%	-1%	-1%	-1%	-2%	-2%	-2%	-2%	-2%	-1%	-1%	-0.98%
CW MUW CHECK														
CHW Send-out	ton-hrs	9,007,200	8,699,800	6,749,900	4,763,900	3,579,700	2,903,600	2,752,800	3,104,400	3,818,100	4,978,300	6,002,400	7,993,700	64,353,800
CW MUW Rate	gall/ton-hr	1.765	1.741	1.731	1.538	1.395	1.236	1.226	1.298	1.411	1.506	1.539	1.641	1.574
FINAL MAKEUP WATER RESULTS														
CHW	gallons	393,100	384,000	351,200	377,600	416,900	498,500	545,400	398,900	495,800	441,500	483,700	557,200	5,343,800
CW	gallons	15,897,000	15,149,000	11,681,000	7,329,000	4,994,000	3,588,000	3,374,000	4,030,000	5,389,000	7,499,000	9,237,000	13,121,000	101,288,000
STEAM	gallons	577,060	509,610	416,000	517,960	1,448,370	2,293,260	1,860,370	1,617,280	1,781,500	649,030	452,450	398,200	12,521,090
TOTAL	gallons	16,867,160	16,042,610	12,448,200	8,224,560	6,859,270	6,379,760	5,779,770	6,046,180	7,666,300	8,589,530	10,173,150	14,076,400	119,152,890
variance	gallons	-6,972	-55,098	-86,784	-116,388	-38,786	-125,596	-124,942	-104,624	-138,332	-149,354	-117,086	-114,656	-1,178,618
% of TOTAL (line 184)		0%	0%	-1%	-3%	0%	-2%	-2%	0%	0%	-2%	-1%	-1%	-1%
STEAM PLANT MASS BALANCE CK														
STEAM SENDOUT	klbs	11,561	12,211	13,750	20,302	30,721	55,917	54,860	41,570	34,619	23,354	20,905	14,282	334,052
STEAM PRODUCTION	klbs	15,800	16,673	19,032	28,416	43,183	78,378	76,171	57,399	46,901	32,000	28,384	19,615	461,952
		-4,239	-4,462	-5,282	-8,114	-12,462	-22,461	-21,311	-15,829	-12,282	-8,646	-7,479	-5,333	
CALC'D LOSSES														
BLOWDOWN 4%	klbs	632	667	761	1,137	1,727	3,135	3,047	2,296	1,876	1,280	1,135	785	18,478
DEA VENT 0.50%	klbs	79	83	95	142	216	392	381	287	235	160	142	98	2,310
TOTAL CALC'D LOSSES	klbs	711	750	856	1,279	1,943	3,527	3,428	2,583	2,111	1,440	1,277	883	20,788
CONDENSATE RETURN	gallons	771,600	891,100	1,184,400	1,975,400	2,416,000	4,899,300	5,107,800	3,632,400	2,571,800	2,121,800	2,002,000	1,238,200	28,811,800
8.15585	klbs	6,293	7,268	9,660	16,111	19,705	39,958	41,658	29,625	20,975	17,305	16,328	10,099	234,985
8.3453	klbs	4,816	4,253	3,472	4,323	12,087	19,138	15,525	13,497	14,867	5,416	3,776	3,323	104,492
TOTAL LEAVING PLANT	klbs	12,272	12,961	14,606	21,581	32,664	59,444	58,288	44,153	36,730	24,794	22,182	15,165	354,840
TOTAL ENTERING PLANT	klbs	11,109	11,521	13,131	20,434	31,792	59,096	57,184	43,122	35,842	22,721	20,104	13,422	339,477
OVERAGE / SHORTFALL	klbs	-1,163	-1,441	-1,475	-1,147	-873	-348	-1,104	-1,031	-887	-2,073	-2,078	-1,743	-15,363
		-9.5%	-11.1%	-10.1%	-5.3%	-2.7%	-0.6%	-1.9%	-2.3%	-2.4%	-8.4%	-9.4%	-11.5%	-4.33%
FINAL CONDENSATE RETURN CALCULATIONS														
RECALC'D TOTAL ENTERING	klbs	12,640	13,350	15,045	22,228	33,644	61,227	60,036	45,478	37,831	25,538	22,848	15,620	
RECALC'D COND. RETURN	klbs	7,824	9,097	11,573	17,906	21,557	42,089	44,511	31,981	22,964	20,121	19,072	12,297	
	gallons	959,363	1,115,429	1,418,980	2,195,432	2,643,143	5,160,638	5,457,553	3,921,217	2,815,682	2,467,121	2,338,434	1,507,693	



Exhibit 1



NASHVILLE, TENNESSEE

EXHIBIT 1 - CALCULATION DETAIL FOR PLANT PERFORMANCE PER APPENDIX 19

ELECTRICITY-TO-STEAM CONVERSION

(1)	E (MainUtility) = total electric use per main utility meters		48,826,598 kWh
(2)	E (Steam,metered) = metered electric use for steam plant		837,809 kWh
	MCC-3	411,745	
	MCC-4	426,064	
(3)	E (CHW,metered) = metered electric use for chilled water plant		46,441,894 kWh
	SWGR-2A	7,286,360	
	SWGR-2B	8,761,890	
	SWGR-3A	5,704,980	
	SWGR-3B	13,946,250	
	SWGR-4A	2,152,017	
	SWGR-4B	2,275,808	
	SWGR-5A	1,796,528	
	SWGR-5B	1,439,260	
	MCC-1	1,552,907	
	MCC-2	1,525,894	
(4)	Esteam,unmetered = un-metered electric use for steam plant = [(2) / (1)] x [(1) - (2) - (3)]		26,543 kWh *
(5)	Echw,unmetered = un-metered electric use for chilled water plant = (1) - (2) - (3) - (4)		1,520,352 kWh *
(6)	Esteam,total = total electric use for steam plant = (2) + (4)		864,352 kWh *
(7)	Customer Steam Sales, metered + unmetered		275,925,221 lbs

$$n \text{ (elec): Actual Steam Plant Electric Conversion} = (6) / [(7) \times 0.001] = 3.133 \text{ kWh/klb}$$

NATURAL GAS-TO-STEAM CONVERSION

(8)	NG = Total Natural Gas Use per main utility meters		461,975.6 Dth
(9)	P = Total Propane Gas per plant meter		0 scft
	Meter Reading at the beginning, n-1	12,095	
	Meter Reading at the end, n	12,095	
	Units of Measure	1,000 x SCFT	
(10)	HHV = Higher Heating Value of Propane		0.002520 Btu/scft
(11)	SO = Plant Steam Send Out		275,511,000 lbs
	Meter Reading at the beginning, n-1	2,352,270	
	Meter Reading at the end, n	2,627,781	
	Units of Measure	1 x SCFT	

$$n \text{ (HHV): Actual Plant Efficiency} = [(8) + (9) \times (10)] / [(11) \times 0.001] = 1.677 \text{ Dth/klb}$$

(12)	CR = Condensate Return per plant meter		28,811,800 gallons **
	Meter Reading at the beginning, n-1	73,628,000	
	Meter Reading at the end, n	97,077,800	
	Units of Measure	1 x SCFT	
(13)	H = Condensate Return energy		25,644 mmBtu
	Meter Reading at the beginning, n-1	90,635	
	Meter Reading at the end, n	116,279	
	Units of Measure	1 x MMBTU	

$$T \text{ (cr,avg): Average Condensate Return Temperature} = 141 \text{ }^\circ\text{F}$$



NASHVILLE, TENNESSEE

EXHIBIT 1 - CALCULATION DETAIL FOR PLANT PERFORMANCE PER APPENDIX 19

WATER-TO-STEAM CONVERSION

(14)	MW = Steam system makeup water plant meter		12,521,090 gallons
	<i>Meter Reading at the beginning, n-1</i>	60,263,690	
	<i>Meter Reading at the end, n</i>	72,784,780	
	<i>Units of Measure</i>	1 x SCFT	

n (water): Actual steam plant water use = (14) * 1.01 =	12,646,301 gallons
----------------------------------------------------------------	---------------------------

G (water): Guaranteed steam plant water use = [(11) / 8.15585 - (12) =	5,714,331 gallons
--------------------------------------------------------------------------------	--------------------------

ELECTRICITY-TO-CHILLED WATER CONVERSION

(15)	E (chw,total) = Total CHW Electric use = (3) + (5) =	47,962,246 kWh *
(16)	Customer CHW Sales, metered + unmetered	56,546,236 kWh

n (elec): Actual chilled water plant electric conversion = (15) / (16) =	0.848 kw/ton
---------------------------------------------------------------------------------	---------------------

CONDENSER WATER-TO-CHILLED WATER CONVERSION

(17)	CM = Condenser water makeup plant meter		71,431,000 gallons **
	<i>Meter Reading at the beginning, n-1</i>	644,620,000	
	<i>Meter Reading at the end, n</i>	716,051,000	
	<i>Units of Measure</i>	1 x GALL	

n (water): Actual chilled water plant conversion = (17) / (16) =	1.263 gal/ton-hr
-------------------------------------------------------------------------	-------------------------

NOTES: * - There is a 11,356 kWh variance from the FEA due to rounding errors resulting from monthly vs. annual summation.

** - Estimated due to incorrect totalization resulting from "low flow cut-off".