

Advisory Board Quarterly Meeting First Quarter FY10

Presented to

District Energy Advisory Board

November 19, 2009



Agenda

- 1. Call to Order
- 2. Review & Approval of Previous Meeting Minutes
- 3. Review of DES Contractor Performance
- 4. Natural Gas Purchasing Status
- 5. Financial Reports 1st Qtr FY10
- 6. FY09-10 Budget Status Report
- 7. Capital Projects Review and Status Report
- 8. DES Emergency Response Plan
- 9. Adjourn



1. Call to Order

2. Review and Approval of Previous Meeting Minutes



3. Review of DES Contractor Performance

Contractor (CNDE) is in compliance with their contractual obligations for FY10.

- Excellent Performance No Improvement Necessary
- Satisfactory Performance Some Improvement Could Be Made
- Poor Performance Much Improvement Necessary



Summary Table 3: Customer Cost Comparison for the Previous 12 Months

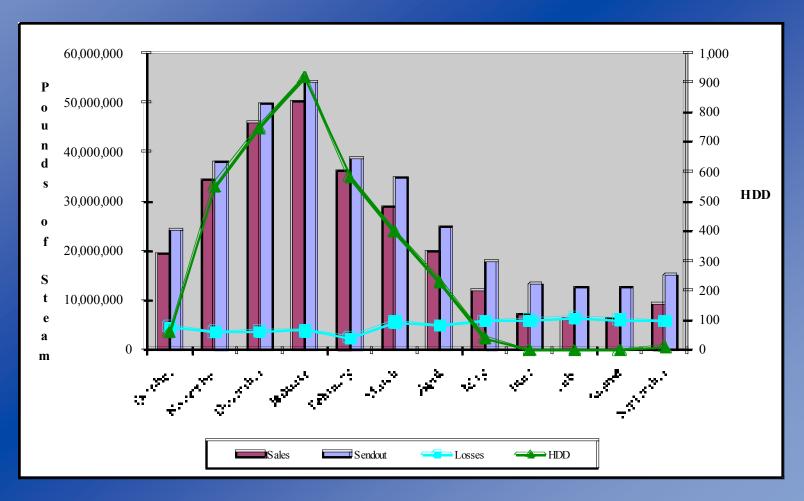
	Steam (\$ millions)			Chilled Water (\$ millions)			
	10/07 -9/08	10/08- 9/09	% Diff.	10/07 -9/08	10/08- 9/09	% Diff.	
Private	\$2.350	\$2.197	-6.5%	\$3.884	\$3.564	-8.2%	
State	\$2.898	\$2.805	-3.2%	\$3.224	\$3.213	<1%	
Metro	\$2.701	\$2.636	-2.4%	\$3.055	\$3.053	<1%	
Aggregate	\$7.950	\$7.638	-3.9%	\$10.163	\$9.830	-3.3%	

*FY08 MFA = \$2,193,075; FY09 MFA = \$3,217,986 post-True-up; MFA not included in values shown



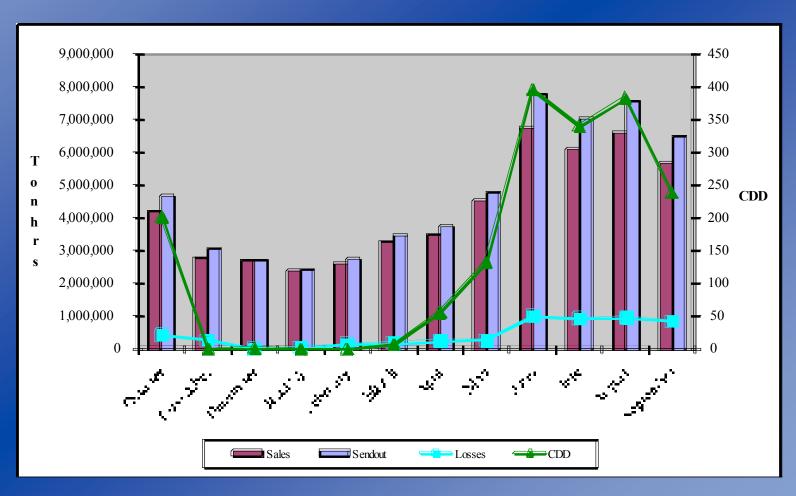
FY10 Operations: Steam





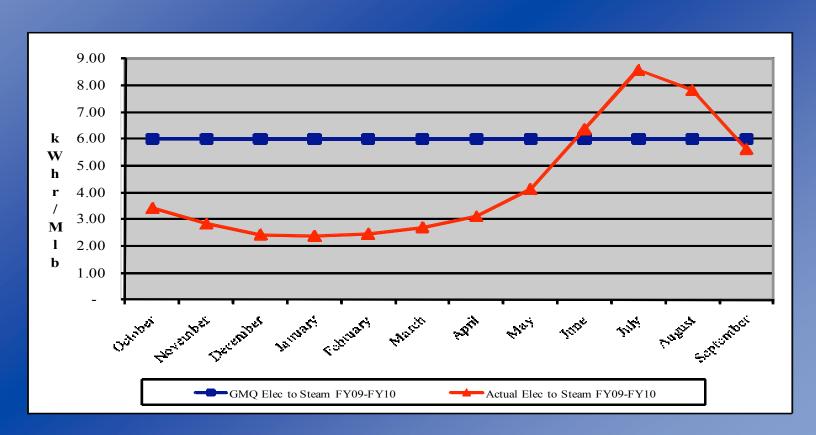


FY10 Operations: Chilled Water



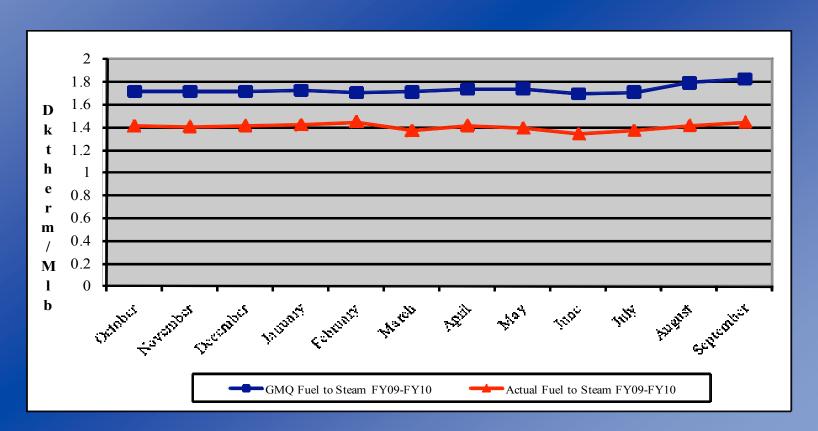


Performance Measurement FY10: Steam Electric Conversion



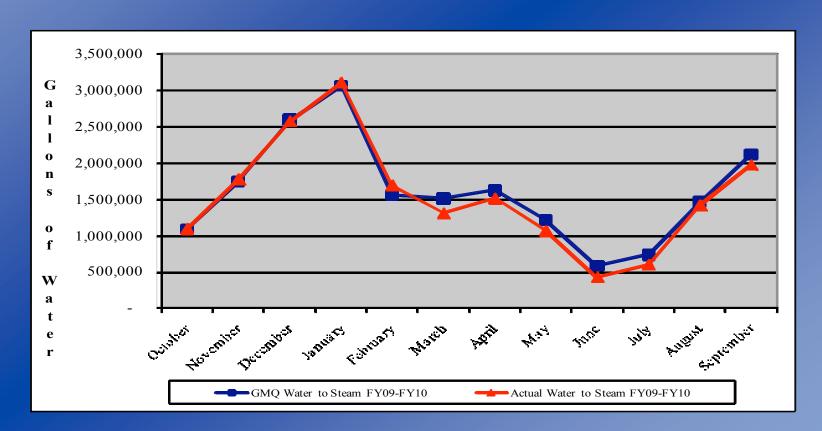


Performance Measurement FY10: Steam Plant Efficiency



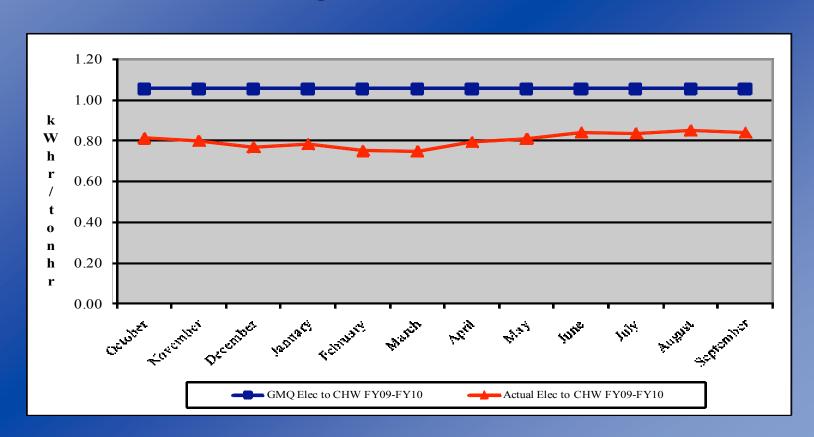


Performance Measurement FY10: Steam Water Conversion



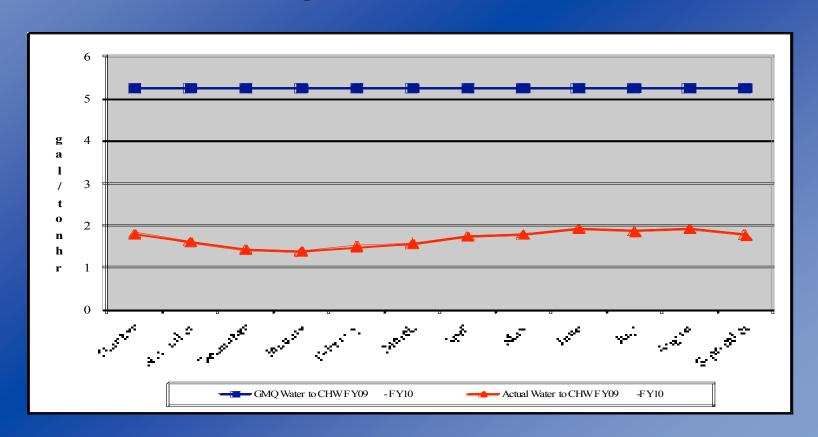


Performance Measurement FY10: Chilled Water Electric Conversion





Performance Measurement FY10: Chilled Water Water Conversion





Water Treatment

- Steam/Condensate
 - Corrosion
 - Iron
 - Hardness
 - Chlorine/Sulfite
- Condensing Water
 - Conductivity
 - Biologicals
- Chilled Water
 - Hardness
 - Corrosion
 - Biologicals



EGF Walkthrough

Quarterly Inspection Process

- Equipment Maintenance
- Operations
- Electrical
- Housekeeping
- Building Structure
- Building Exterior and Grounds



EDS Walkthrough

Quarterly Inspection Process

- Manhole/Tunnel Housekeeping
- Maintenance Items
 - Insulation Repair/Replacement
 - Water Infiltration
 - Corrosion of Structural Metal Components
- Safety Items



4. Natural Gas Purchasing Natural Gas Purchasing Review

Table 4: FY10 Gas Spending & Budget Comparison

Figure 4: Actual and Projected Gas Cost Comparison for FY10

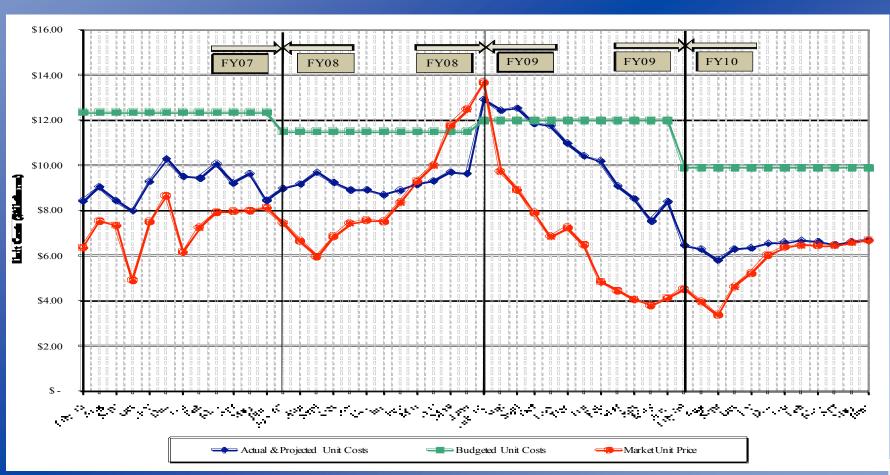


Table 4: FY10 Gas Spending & Budget Comparison

	Actual FY10 To date (Sept 30)	Budget FY10
Steam Sendout (Mlbs)	40,821	39,655
Fuel Use (Dth)	57,844	57,500
Plant Eff (Dth/Mlb)	1.413	1.450
Total Gas Cost	\$356,454	\$564,995
Unit Cost of Fuel (\$/Dth)	\$6.162	\$9.826



Actual and Projected Gas Cost Comparison for FY10





5. Financial Reports: 1st Qtr FY10

Ite m	FY10 Budget		Total Expenses to Date		Percent of FY10 Budget
FOG P	Φ.	2.07.5.200	Φ.	0.52.0.12	2.1.2207
FOC: Basic	\$	3,976,200	\$	963,043	24.22%
FOC:9th Chiller	\$	37,200	\$	9,024	24.26%
FOC: Change Order 6A	\$	73,400	\$	17,816	24.27%
FOC: Change Order 6B	\$	64,300	\$	15,597	24.26%
Chemicals	\$	161,200	\$	37,896	23.51%
Engineering	\$	26,200	\$	3,801	14.51%
Insurance	\$	43,700	\$	-	0.00%
Marketing: CEPS Sales Activity	\$	9,800	\$	-	0.00%
Metro Marketing	\$	35,000	\$	5,212	14.89%
Incentive Payments	\$	-	\$	-	n.a.
Project Administration	\$	24,000	\$	-	0.00%
Metro IncrementalCost	\$	526,400	\$	94,387	17.93%
FEA: Steam	\$	_	\$	14,041	n.a.
FEA: Chilled Water	\$	_	\$	113,028	n.a.
ARFA	\$	_	\$	13,987	n.a.
M etro Credit	\$	_	\$	(140,933)	n.a.
Water/Sewer	\$	689,600	\$	127,546	18.50%
NaturalGas/Propane	\$	4,692,900	\$	355,953	7.58%
Electricity	\$	5,034,100	\$	1,264,600	25.12%
EDS Repair & Improvement	\$	176,500	\$	35,648	20.20%
EDS Surcharge	\$	70,600	\$	-	0.00%
Sub-total Operations	\$	15,641,100	\$	2,930,645	18.74%
2002 Bonds	\$	4,362,900	\$	1,090,698	25.00%
2005 Bonds	\$	627,600	\$	-	0.00%
FY07 Projects	\$	227,800	\$	_	0.00%
FY08 Projects	\$	220,500	\$	-	0.00%
Debt Service Interest Revenue	\$	(123,700)	\$	(154)	0.12%
Oper. Reserve Funding Deposit	\$	-	\$	-	n.a.
Sub-total Debt Service	\$	5,315,100	\$	1,090,544	20.52%
Total Expenses	\$	20,956,200	\$	4,021,189	19.19%
Customer Revenues	\$	18,512,100	\$	3,543,483	19.14%
Total Metro Funding Amount	\$	2,444,100	\$	477,706	19.55%



6. FY2009-2010 Budget Status Review

	Spent to End of FY09	FY10 Spending	Balance to Date (09/30/09)
R&I Projects	\$764,130	\$35,648	\$485,062
2005B Bond	\$7,920,090	\$5,604	\$260,807
2007 Bond	\$2,620,771	\$0	\$237,729
2008 Bond	\$1,846,622	\$1,023,574	\$8,304
2010 Bond	\$0	\$6,088	\$2,403,912
Total	\$10,530,842	\$1,070,914	\$3,395,814



7. Capital Projects Review

Active Capital Projects

- DES 041/054: Symphony CND closed
- DES 044: STM Repair & CND Replacement MH 5 to MH 9 closed
- DES 0441: Modification of Manhole 9 closed
- DES 046: Ryman CND closed
- DES 050: MH Insulation in construction/ongoing (DES 060 in FY 2010)
- DES 051: Replacement of 4th Avenue Tunnel Condensate Slip Joint closed
- DES 055: Rebuild of MH "C" closed
- DES 056: STM Repair & CND Replacement to Citizen's Plaza closed
- DES 057: STM & CND Valve Replacement: Phase I & II closed

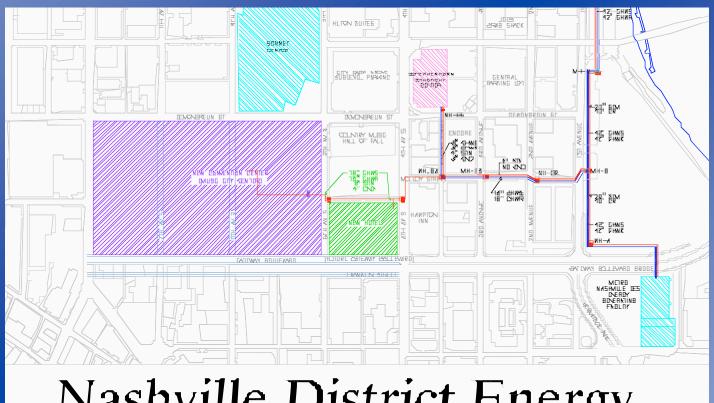


FY 2010 Proposed Projects

- DES 048: Tunnel Lighting Replacement Phase III
- DES 059: CJC Steam & Condensate Line Replacement in design
- DES 060: MH Insulation in construction/ongoing
- DES 061: Manhole & Tunnel Steel Corrosion Repair & Prevention
- DES 062: Wildhorse Stm & Cnd Line Replacement in construction
- DES 063: Sump Pump Installation in MH A, B & M currently bidding
- DES 067: Tunnel Rock Repair in design
- DES 068: St Mary's Condensate Tempering
- DES 069: Municipal Auditorium Condensate Tempering
- DES 070: MH 6 to 23 Condensate Line Replacement in design
- DES 071: Hermitage Hotel Service Modifications
- DES 072: Sheraton Hotel Steam and Condensate Replacement



Music City Center & New Hotel DES Location



Nashville District Energy



Proposed Music City Center & New Hotel

- Music City Center
 - -3,500 tons
 - 35,000 pph
- New Hotel
 - 1,500 tons
 - 18,000 pph
- Est \$1,500,000 (~55%) Reduction in MFA
- No Impact on Existing Customers
- New Load Approaches EGF Capacity Limit



8. DES Emergency Response Plan

- Metro Business Continuity and Disaster Recovery Plan
- Constellation Energy Emergency Response Plan
- Customer Response Plans



Metro Disaster Recovery Plan

- Communications Between
 - Metro
 - CEPS
 - TEG
 - Customers
- EGF/EDS Functionality
- Relocation of Command
- Continuity of Services
- Priority Customers



CEPS Emergency Response Plan

- Emergency Response
 - Localized and Minor
 - Affecting Service from EGF
 - City-wide
- Communication (CEPS/Metro/TEG/Vendors)
- Damage Assessment
- Temporary Service
- Priority Customers



Customer Response Plans

- Customer HVAC Requirements in an Emergency
- Temporary Service Connections
 - Localized Service Only
 - EGF/EDS Non-functional
- Priority Customers
 - Criminal Justice Center
 - Metro Library
 - AA Birch/Courthouse
 - Hotels and Convention Center
 - State Buildings



9. Adjourn