

Advisory Board Quarterly Meeting Second Quarter FY10

Presented to District Energy Advisory Board

February 18, 2010



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 2nd Qtr FY10
- 6. FY09-10 Budget Status Report
- 7. Capital Projects Review and Status Report
- 8. Liaison Transition of Duties
- 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



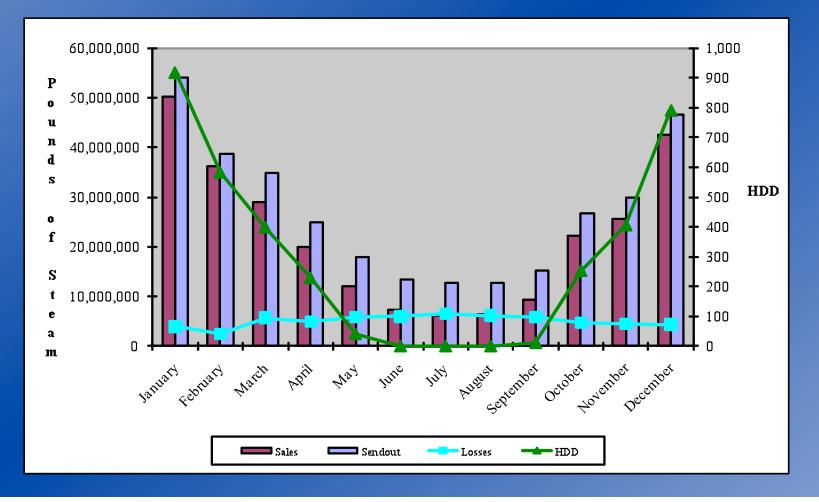
Summary Table 3: Customer Cost Comparison for the Previous 12 Months

	Steam (\$ millions)			Chilled Water (\$ millions)			
	01/08 – 12/08	01/09-12 /09	% Diff.	01/08 – 12/08	01/09-12 /09	% Diff.	
Private	\$2.439	\$1.943	-20.3%	\$3.827	\$3.497	-8.6%	
State	\$3.100	\$2.513	-18.9%	\$3.257	\$3.191	-2.0%	
Metro	\$2.856	\$2.225	-22.1%	\$3.055	\$2.967	-2.9%	
Aggregate	\$8.395	\$6.681	-20.4%	\$10.139	\$9.656	-4.8%	

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



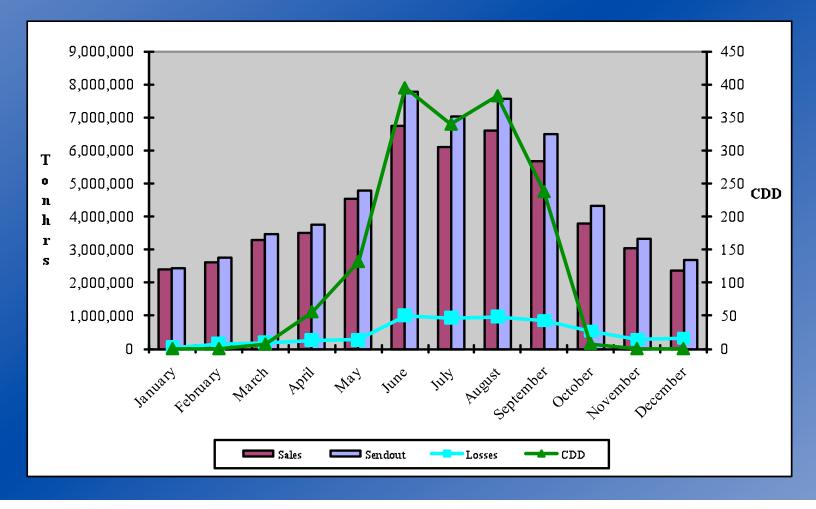
FY10 Operations: Steam



6



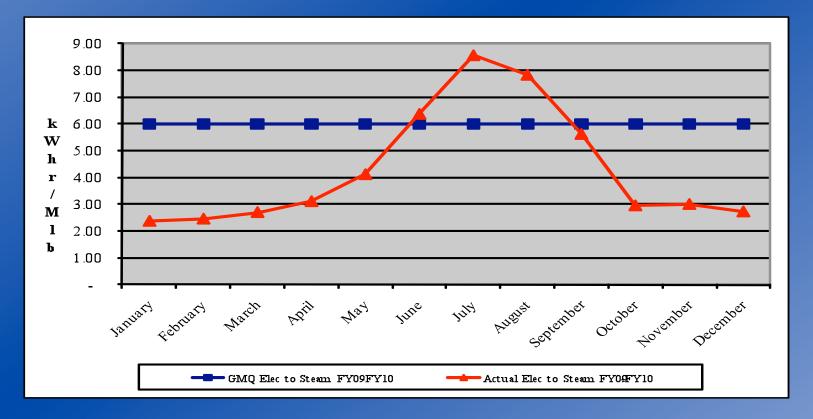
FY10 Operations: Chilled Water





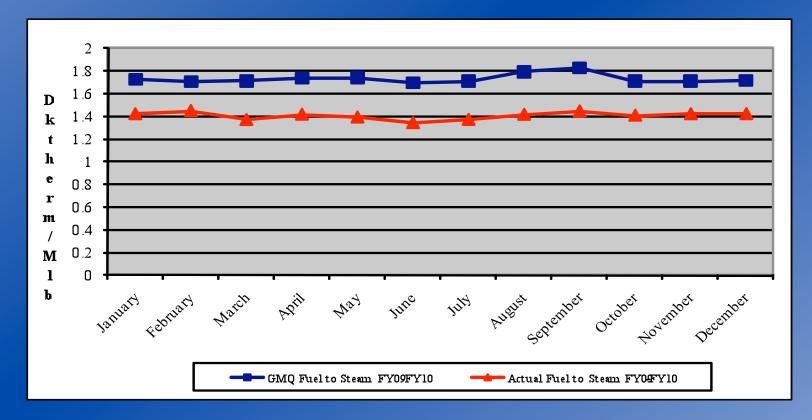
Performance Measurement FY10: Steam

Electric Conversion





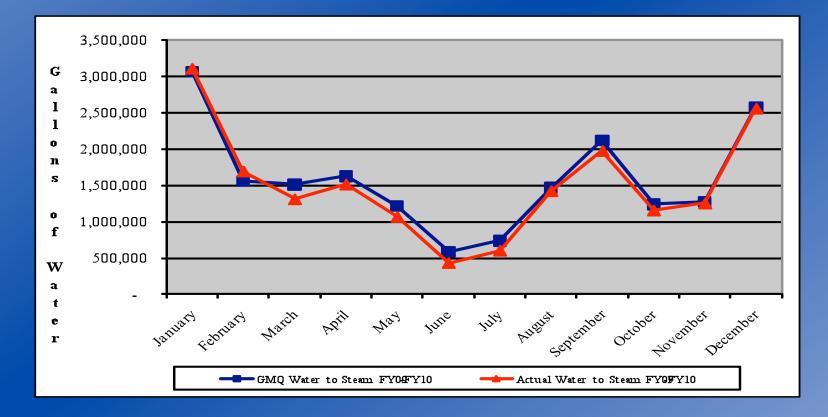
Performance Measurement FY10: Steam Plant Efficiency





Performance Measurement FY10: Steam

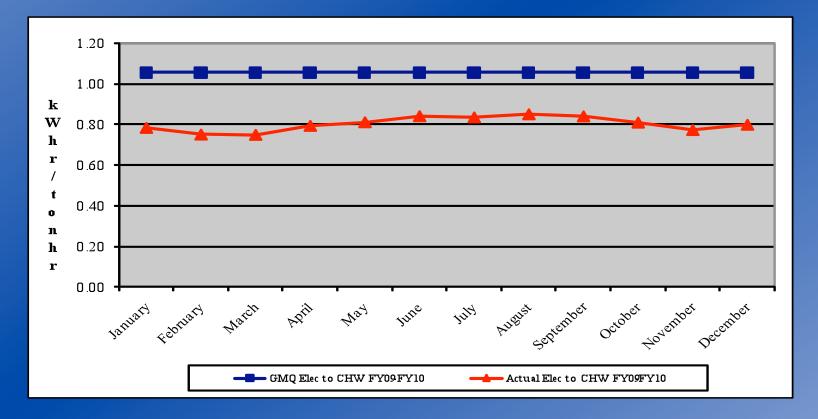
Water Conversion





Performance Measurement FY10: Chilled Water

Electric Conversion

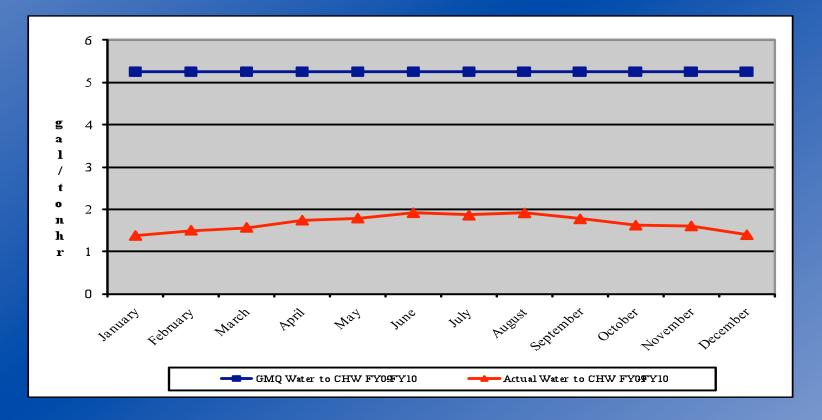


11



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 \bigcirc
- 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

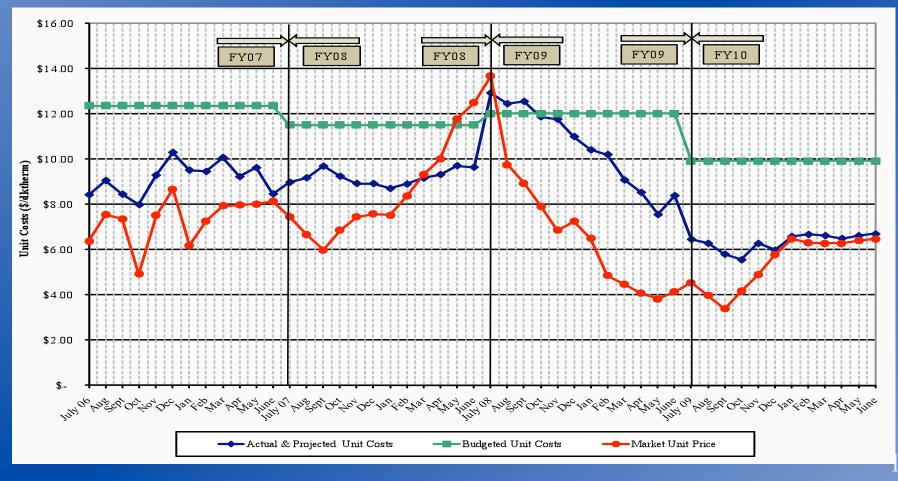


Table 4: FY10 Gas Spending & Budget Comparison

	Actual FY10 To date (Dec 31)	Budget FY10
Steam Sendout (Mlbs)	144,218	145,172
Fuel Use (Dth)	205,313	210,500
Plant Eff (Dth/Mlb)	1.424	1.450
Total Gas Cost	\$1,297,0338	\$2,068,373
Unit Cost of Fuel (\$/Dth)	\$6.317	\$9.826



Actual and Projected Gas Cost Comparison for FY10



8



5. Financial Reports: 2nd Qtr FY10

					and the second
Item				tal Expenses to Date	Percent of FY10 Budget
FOC: Basic	æ	2.076.200	æ	1 006 006	10, 1, 10 (
	\$ \$	3,976,200	\$	1,926,085	48.44%
FOC: 9th Chiller	-	37,200	-	18,048	48.51%
FOC: Change Order 6A	\$	73,400	\$	35,631	48.54%
FOC: Change Order 6B	\$	64,300	\$	31,194	48.51%
Chemicals	\$	161,200	\$	74,891	46.46%
Engineering	\$	26,200	\$	16,578	63.28%
Insurance	\$	43,700	\$	27,723	63.44%
Marketing: CEPS Sales Activity	\$	9,800	\$	-	0.00%
Metro Marketing	\$	35,000	\$	8,564	24.47%
Incentive Payments	\$	_	\$	_	n.a.
Project Administration	\$	24,000	\$	_	0.00%
Metro Incremental Cost	\$	526,400	\$	186,757	35.48%
FEA: Steam	\$	_	\$	53,980	n.a.
FEA: Chilled Water	\$	_	\$	194,436	n.a.
ARFA	\$	_	\$	27,973	n.a.
Metro Credit	\$	_	\$	(221,345)	n.a.
Water/Sewer	\$	689,600	\$	194,705	28.23%
Natural Gas/Propane	\$	4,692,900	\$	1,297,038	27.64%
Electricity		5,034,100	\$	2,083,012	41.38%
EDS Repair & Improvement	\$	176,500	\$	63,339	35.89%
EDS Surcharge	\$	70,600	\$	_	0.00%
Sub-total Operations	\$	15,641,100	\$	6,018,610	38.48%
2002 Bonds	\$	4,362,900	\$	2,181,405	50.00%
2005 Bonds	\$	627,600	\$	168,794	26.90%
FY07 Projects	\$	227,800	\$	112,075	49.20%
FY08 Projects	\$	220,500	\$	112,075	50.83%
Debt Service Interest Revenue	\$	(123,700)	\$	(7,835)	6.33%
Oper. Reserve Funding Deposit	\$		\$	_	n.a.
Sub-total Debt Service	\$	5,315,100	\$	2,566,514	48.29%
Total Expenses	\$	20,956,200	\$	8,585,124	40.97%
Customer Revenues	\$	18,512,100	\$	7,405,726	40.00%
Total Metro Funding Amount	\$	2,444,100	\$	1,179,398	48.25%



6. FY2009-2010 Budget Status Review

	Spent to End of FY09	FY10 Spending	Balance to Date (01/25/10)
R&I Projects	\$764,130	\$63,718	\$518,768
2005B Bond	\$7,920,090	\$14,126	\$252,284
2007 Bond	\$2,620,771	\$0	\$237,729
2008 Bond	\$1,846,622	\$1,031,878	\$0
2010 Bond	\$0	\$18,371	\$2,391,629
Total	\$10,530,842	\$1,128,093	\$3,400,410



7. Capital Projects Review

Active Capital Projects

- DES 060: MH Insulation in construction/ongoing
- DES 062: Replacement of Steam and Condensate Service to 120 2nd Ave. North (Wildhorse Saloon) in construction
- DES 063: Manhole A, B & M Sump Pump Installation on standby
- DES 066: 1st Avenue Manhole & Steam Line Removal from Service -in construction
- DES 073: MH-18 Condensate and Platform Modification in design
- DES 076: MH-S4A State Manhole Rebuild -in design
- DES 077: Expansion of Service to the Music City Convention Center in design

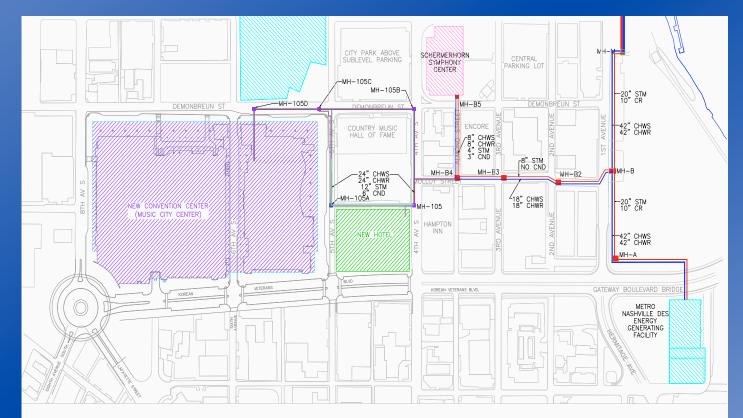


FY 2010 Proposed Projects

- 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 on standby
- DES 066: 1st Avenue Steam Line & Manhole Removal from Service in construction
- DES 067: Tunnel Rock Repair in design
- DES 068: St Mary's Condensate Tempering/MH 10 Repair in design
- DES 069: Municipal Auditorium Condensate Tempering
- DES 070: MH 6 to 23 Condensate Line Replacement in design
- DES 071: Hermitage Hotel Service Modifications in design
- DES 072: Sheraton Hotel Steam and Condensate Replacement



Music City Center & New Hotel DES Location





Proposed Music City Center & New Hotel

- Music City Center
 - 4,000 tons
 - 35,000 pph
- New Hotel
 - 1,900 tons
 - 23,400 pph
- Est \$1,500,000 (~55%) Reduction in MFA
- No Impact on Existing Customers
- New Load Approaches EGF Capacity Limit



8. Liaison Transition of Duties

9. Adjourn