

Advisory Board Quarterly Meeting Fourth Quarter FY10

Presented to
District Energy Advisory Board

August 19, 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 4th Qtr FY10
- 6. FY11 Budget Status Report
- 7. Capital Projects Review & Status Report Update
- 8. Music City Convention Center Expansion Update
- 9. Damage Report from May 1-2, 2010 Flood
- 10. Other Board Member Items
- 11. 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

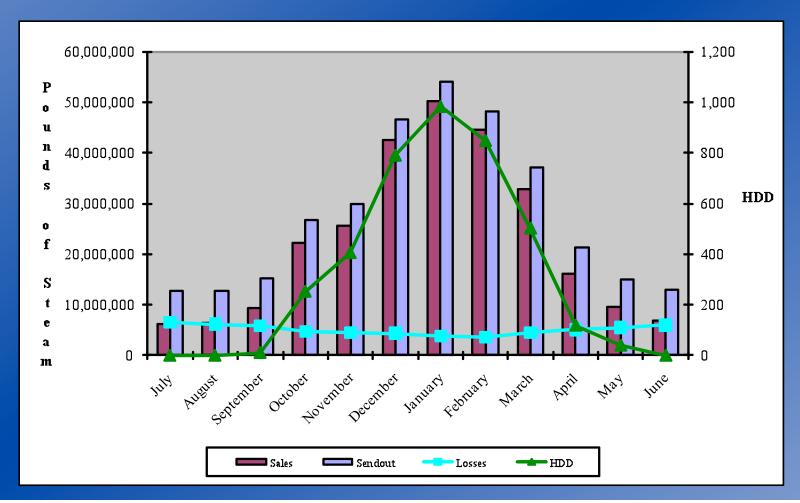
	Steam (\$ millions)			Chilled Water (\$ millions)			
	07/08 – 06/09	07/09-06 /10	% Diff.	07/08 – 06/09	07/09-06 /10	% Diff.	
Private	\$2.294	\$1.677	-26.9%	\$3.711	\$3.511	-5.4%	
State	\$2.971	\$2.271	-23.6%	\$3.262	\$3.257	-0.2%	
Metro	\$2.838	\$1.959	-31.0%	\$3.113	\$2.986	-4.1%	
Aggregate	\$8.102	\$5.907	-27.1%	\$10.087	\$9.754	-3.3%	

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



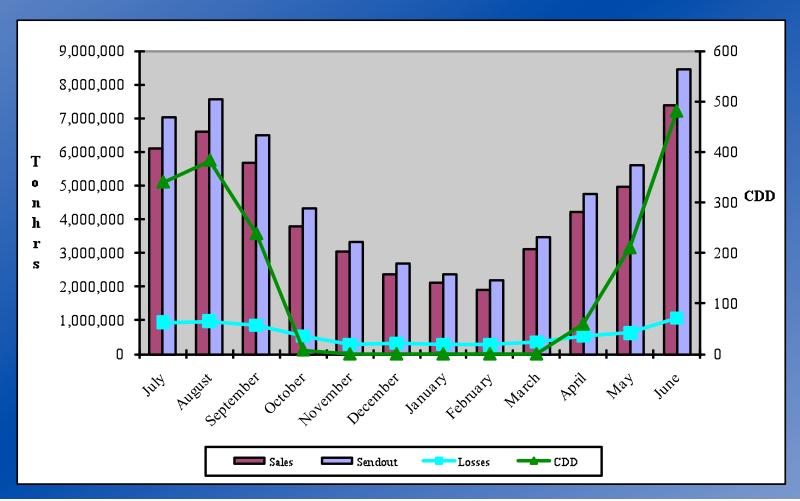
FY10 Operations: Steam





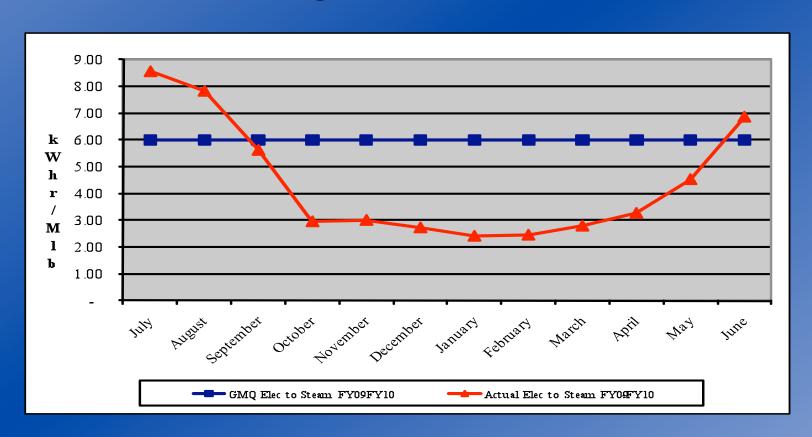


FY10 Operations: Chilled Water



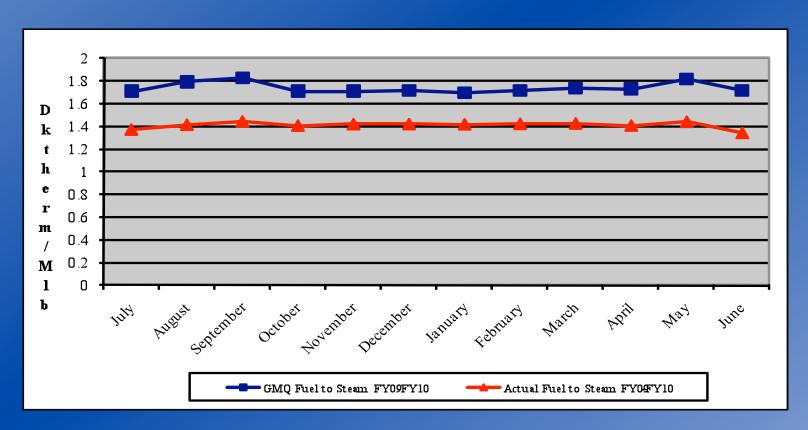


Performance Measurement FY10: Steam Electric Conversion



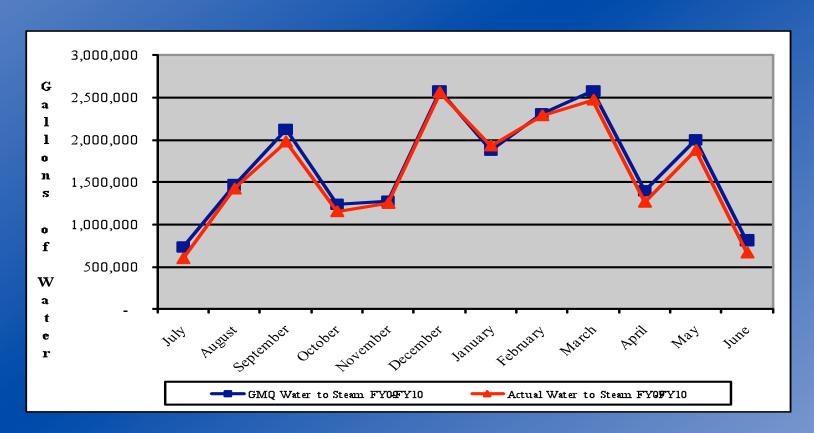


Performance Measurement FY10: Steam Plant Efficiency



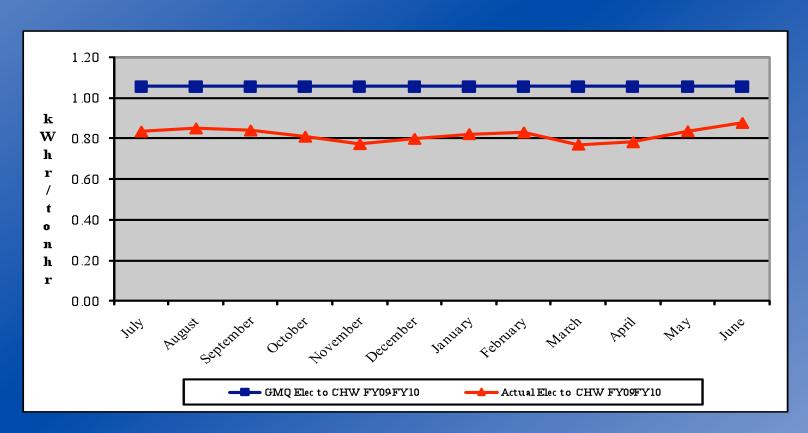


Performance Measurement FY10: Steam Water Conversion



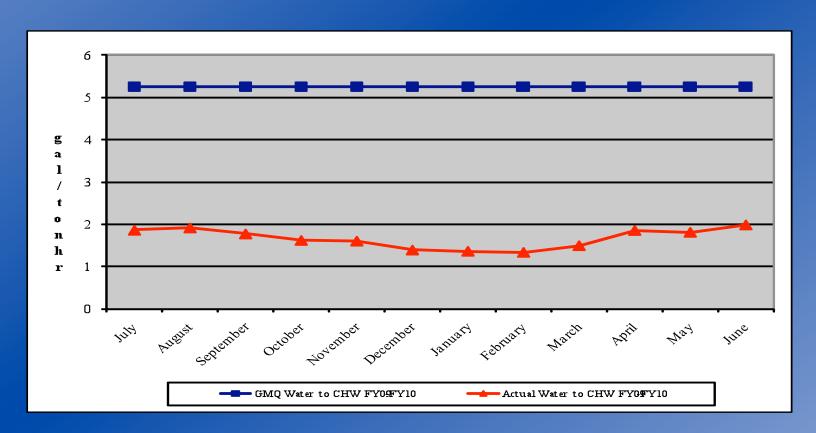


Performance Measurement FY10: Chilled Water Electric Conversion





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

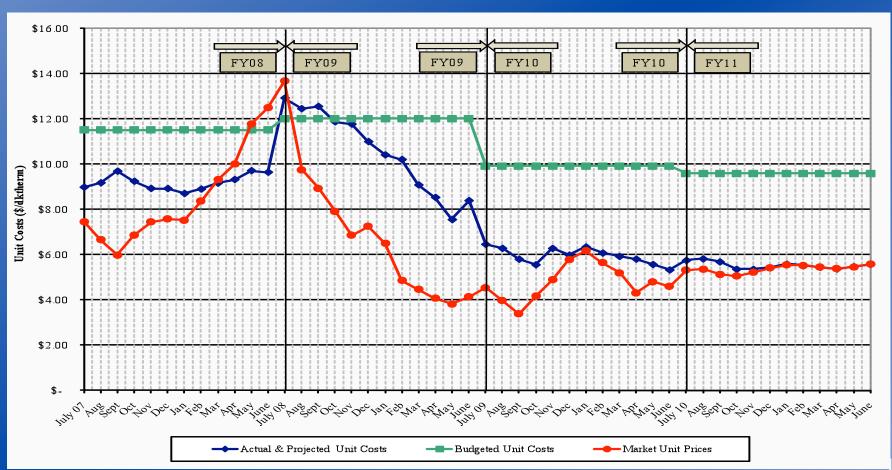


Table 4: FY10 Gas Spending & Budget Comparison

	Actual FY10 To date (June 30)	Budget FY10
Steam Sendout (Mlbs)	333,071	329,379
Fuel Use (Dth) (includes propane)	472,158	477,600
Plant Eff (Dth/Mlb)	1.418	1.450
Total Gas Cost (includes propane)	\$3,024,226	\$4,692,900
Unit Cost of Fuel (\$/Dth)	\$6.405	\$9.826



Fig 4. Actual and Projected Gas Cost Comparison History





5. Financial Reports: 4th Qtr FY10

Item	FY10		Total Expenses		Percent of
	Budget		to Date		FY10 Budget
				(4th Qtr)	
FOC: Basic	\$	3,976,200	\$	3,852,170	96.88%
FOC: 9th Chiller	\$	37,200	\$	36,095	97.03%
FOC: Change Order 6A	\$	73,400	\$	71,263	97.09%
FOC: Change Order 6B	\$	64,300	\$	62,388	97.03%
Chemicals	\$	161,200	\$	148,121	91.89%
Engineering	\$	26,200	\$	11,523	43.98%
Insurance	\$	43,700	\$	27,723	63.44%
Marketing: CEPS Sales Activity	\$	9,800	\$	_	0.00%
Metro Marketing	\$	3 <i>5</i> ,000	\$	21,025	60.07%
Incentive Payments	\$	_	\$	_	n.a.
Project Administration	\$	24,000	\$	_	0.00%
Metro Incremental Cost	\$	<i>5</i> 26,400	\$	496,728	94.36%
FEA: Steam	\$	_	\$	130,802	n.a.
FEA: Chilled Water	\$	_	\$	365,307	n.a.
ARFA	\$	_	\$	55,947	n.a.
Metro Credit	\$	_	\$	(711,957)	n.a.
Water/Sewer	\$	689,600	\$	37 <i>5</i> ,016	<i>5</i> 4.38%
Natural Gas/Propane	\$	4,692,900	\$	3,023, <i>5</i> 88	64.43%
Electricity	\$	5,034,100	\$	3,976,234	78.99%
EDS Repair & Improvement	\$	1 <i>76,5</i> 00	\$	211,592	119.88%
EDS Surcharge	\$	<i>7</i> 0, <i>6</i> 00	\$	_	0.00%
Sub-total Operations	\$	15,641,100	\$	12,153,566	77.70%
2002 Bonds	\$	4,362,900	\$	4,362,852	100.00%
2005 Bonds	\$	627,600	\$	627, <i>5</i> 88	100.00%
FY07 Projects	\$	227,800	\$	336,225	147.60%
FY08 Projects	\$	220, <i>5</i> 00	\$	336,225	1 <i>5</i> 2.48%
Debt Service Interest Revenue	\$	(123,700)	\$	(56,413)	45.60%
Oper. Reserve Funding Deposit	\$	_	\$		n.a.
Sub-total Debt Service	\$	5,315,100	\$	5,606,477	105.48%
Total Expenses	\$	20,956,200	\$	17,760,043	84.75%
Customer Revenues	\$	18,512,100	\$	15,416,142	83.28%
Total Metro Funding Amount	\$	2,444,100	\$	2,343,901	95.90%



6. FY11 Budget Status Report

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Item		FY10	FY11		Percent
		Budget	Budget		Change from
					FY10
FOC: Basic + C/O 6C	\$	3,976,200	\$	3,976,200	0.00%
FOC: 9th Chiller	\$	37,200	\$	37,200	0.00%
FOC: Change Order 6A	\$	73,400	\$	73,400	0.00%
FOC: Change Order 6B	\$	64,300	\$	64,300	0.00%
Chemicals	\$	161,200	\$	150,000	-6.95%
Engineering	\$	26,200	\$	26,200	0.00%
Insurance	\$	43,700	\$	27,700	-36.61%
Marketing: CEPS Sales Activity	\$	9,800	\$		-100.00%
Metro Marketing		35,000	\$	15,000	-57.14%
Incentive Payments	\$		\$		n.a.
Project Administration		24,000	\$	30,700	27.92%
Metro Incremental Cost	\$	<i>5</i> 26,400	\$	485,900	-7.69%
Water/Sewer	\$	689,600	\$	574,000	-16.76%
Natural Gas/Propane	\$	4,692,900	\$	4,429,200	-5.62%
Electricity	\$	5,034,100	\$	4,949,700	-1.68%
EDS Repair & Improvement	\$	176,500	\$	176,500	0.00%
EDS Surcharge	\$	70,600	\$	70,600	0.00%
Sub-total Operations	\$	15,641,100	\$	15,086,600	-3.55%
2002 Bonds	\$	4,362,900	\$	4,239,500	-2.83%
2005 Bonds	\$	627,600	\$	628,100	0.08%
2007 Bonds	\$	227,800	\$	227,800	0.00%
2008 Bonds	\$	220,500	\$	220,500	0.00%
2010 Bonds	\$	-	\$	-	n.a.
Interest Revenue	\$	(123,700)	\$	(92,900)	-24.90%
Oper. Reserve Funding Deposit	\$	_	\$	-	1 1.a.
Sub-total Debt Service	\$	5,315,100	\$	5,223,000	-1.73%
Total Expenses	\$	20,956,200	\$	20,309,600	-3.09%
	4	10.400.100	-	15.000	
Customer Revenues	\$	18,488,100	\$	17,820,100	-3.61%
Project Admin. Revenue	\$	24,000	\$	30,700	27.92%
	\$		\$	14,700	n.a.
Total Metro Funding Amount	\$	2,444,100	\$	2,444,100	0.00%



Capital Expenditure Update

	Spent to End of FY09	FY10 Spending	Balance to Date (07/30/10)
R&I Projects	\$764,130	\$212,612	\$493,424
2005B Bond	\$7,920,090	\$134,128	\$132,282
2007 Bond	\$2,620,771	\$0	\$237,729
2008 Bond	\$1,846,622	\$1,031,878	\$0
2010 Bond	\$0	\$412,384	\$1,997,616
Total	\$10,530,842	\$1,791,002	\$2,861,051



7. Capital Projects Review

Active Capital Projects

- DES 060: MH Insulation in construction/ongoing
- DES 061: Manhole & Tunnel Steel Corrosion Repair & Prevention in construction/ongoing
- DES 062: Replacement of Stm and Cond Service to 120 2nd Ave. N. (Wildhorse Saloon) in closeout
- DES 066: 1st Avenue Manhole & Steam Line Removal from Service in closeout
- DES 067: Tunnel Rock Rehabilitation.: Broadway, 7th & 4th Ave. construction to begin early July
- DES 068: Manhole 10 Repair completed & closed
- DES 069: Municipal Auditorium Tempering Station in construction
- DES 073: MH-18 Platform Modification to be bid in late August



7. Capital Projects Review (cont'd.)

Active Capital Projects

- DES 075: 2010 Chilled Water Outage completed & closed
- DES 076: MH-S4A State Manhole Rebuild on hold; awaiting direction from State
- DES 077: Expansion of Service to the Music City Convention Center in pre-construction
- DES 078: James K. Polk Drip-leg Installation completed & closed
- DES 079: Tennessee Tower Gold Parking Lot Repair completed & closed
- DES 080: Misc. Manhole & Tunnel Safety Repairs in design
- DES 081: Flood Related Repairs design completed; construction to start in July



FY 2010-2011 Proposed Projects

- DES 048: Tunnel Lighting Replacement Phase III awaiting DES 067
- DES 059: CJC Steam & Condensate Line Replacement deferred
- DES 063: Sump Pump Installation in MH A, B & M on standby
- DES 070: MH 6 to 23 Condensate Line Replacement deferred to FY11
- DES 071: Hermitage Hotel Service Modifications deferred to FY11
- DES 072: Sheraton Hotel Steam and Condensate Replacement

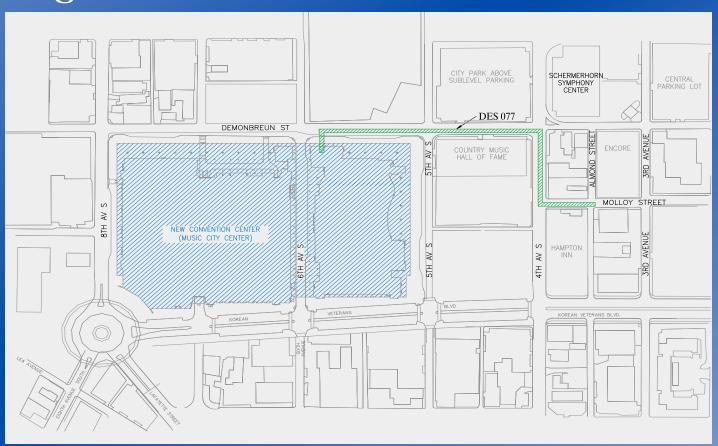


8. Music City Convention Center Expansion Update

- Music City Convention Center
 - 5,820 tons (contract)
 - 53,130 pph (contract)
- Estimated Capital Cost \$6,022,000
- Estimated \$700,000 (~27%) Reduction in MFA
- Construction to Begin Mid-September
- "Service Ready" Anticipated 03/15/2011



Music City Convention Center Location & Routing Plan





9. Damage Report from May 1-2, 2010 Flood

- Actual Costs to Date (08/12/10) \$375,000
- Estimated Costs to Complete Repairs
 - Electrical/Communications \$175,000
 - Mechanical Systems \$223,500
 - Temporary Boiler \$150,000
 - Tech Support/Admin \$40,000
 - Other \$25,000
 - Total Anticipated Cost \$478,500
- Majority of costs may not be affect capital budget





Anchor Plate Failure in MH-L





MH-L Piping & Slip Joint





Condensate Pumps in MH-18



10. Other Board Member Items

11. Adjourn