

# Advisory Board Quarterly Meeting Third Quarter FY10

Presented to
District Energy Advisory Board

May 20, 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 3<sup>rd</sup> 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. 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

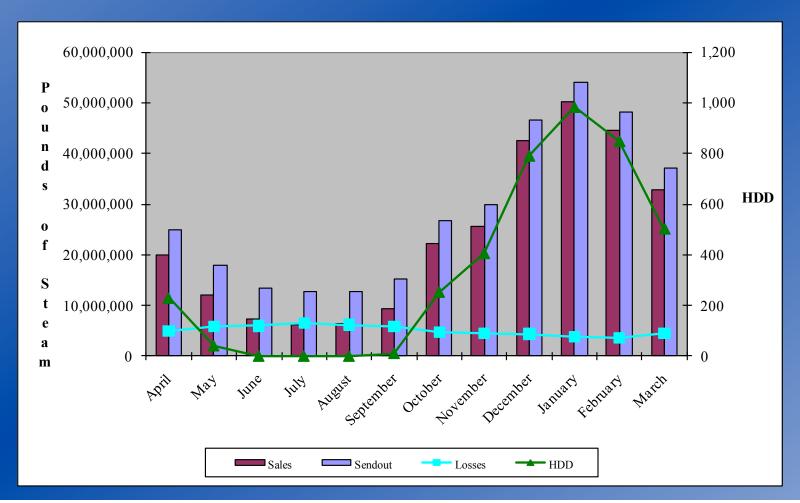
	Steam (\$ millions)			Chilled Water (\$ millions)			
	04/08 – 03/09	04/09-03 /10	% Diff.	04/08 – 03/09	04/09-03 /10	% Diff.	
Private	\$2.378	\$1.783	-25.0%	\$3.775	\$3.467	-8.2%	
State	\$3.062	\$2.349	-23.3%	\$3.271	\$3.212	-1.8%	
Metro	\$2.869	\$2.013	-29.8%	\$3.089	\$2.915	-5.6%	
Aggregate	\$8.308	\$6.144	-26.1%	\$10.135	\$9.593	-5.3%	

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



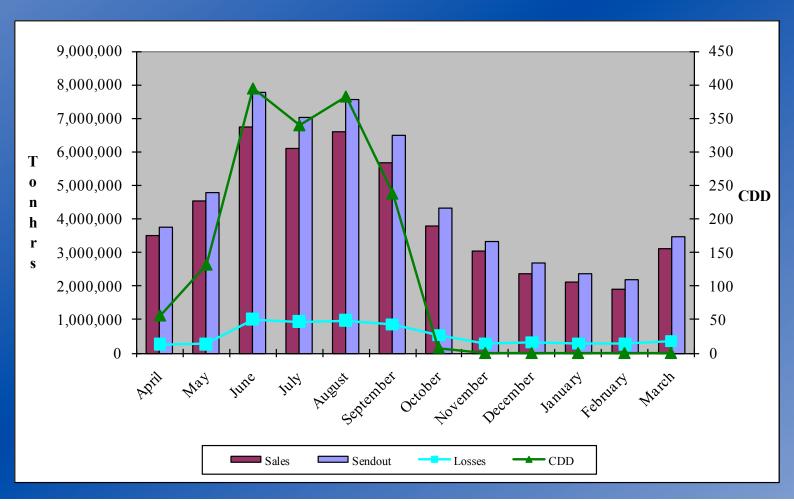
#### FY10 Operations: Steam





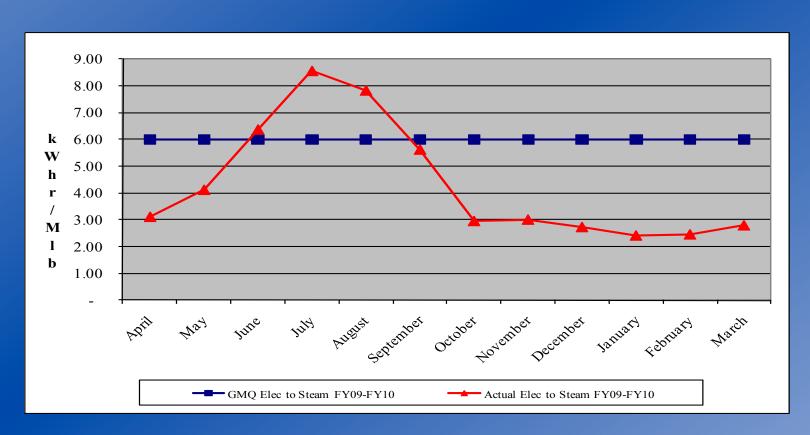


#### FY10 Operations: Chilled Water



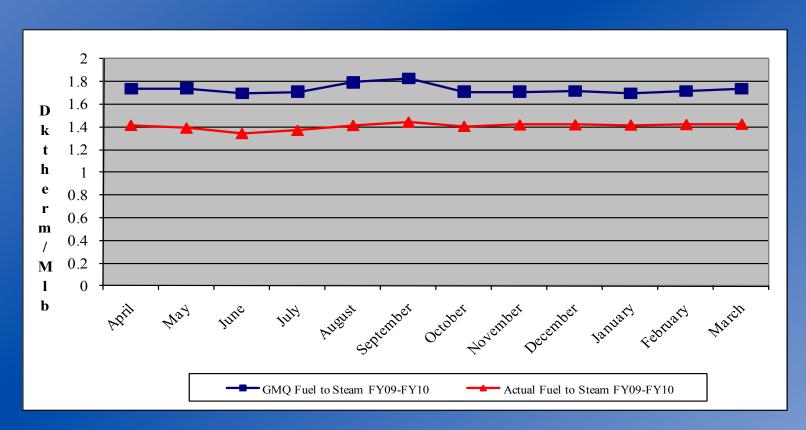


## Performance Measurement FY10: Steam Electric Conversion



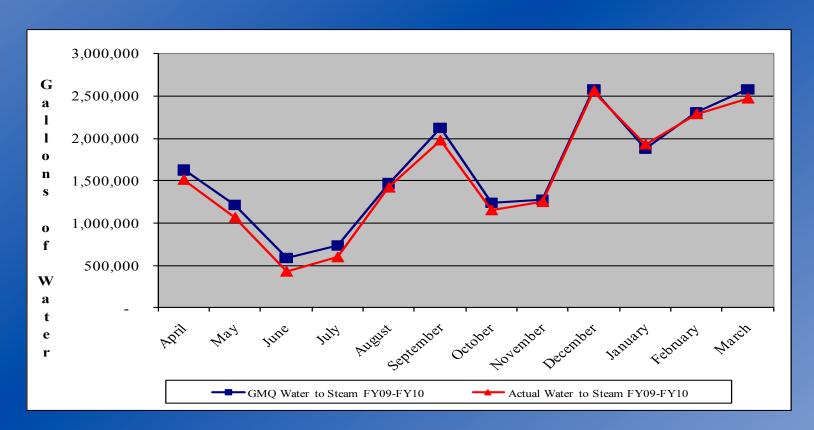


## Performance Measurement FY10: Steam Plant Efficiency



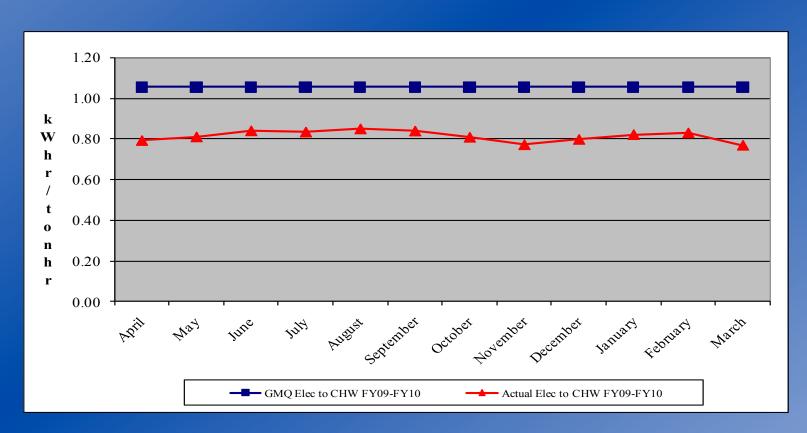


## Performance Measurement FY10: Steam Water Conversion



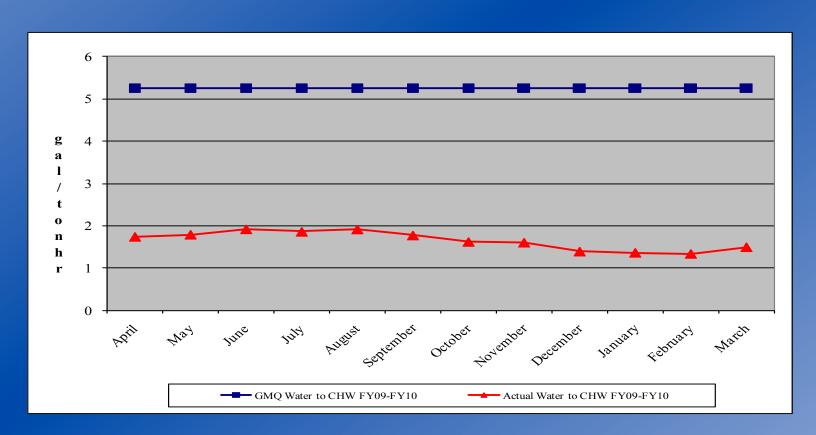


## Performance Measurement FY10: Chilled Water Electric Conversion





## 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

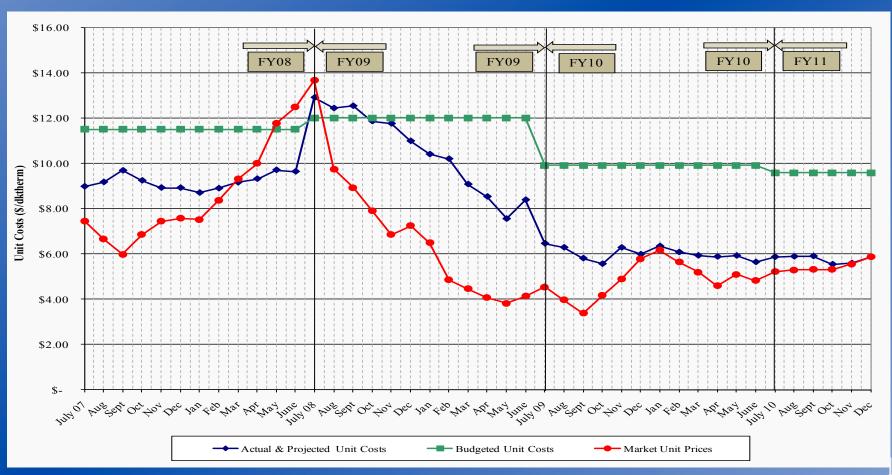


#### Table 4: FY10 Gas Spending & Budget Comparison

	Actual FY10 To date (Mar 31)	Budget FY10
	202 522	201.724
Steam Sendout (Mlbs)	283,730	281,724
Fuel Use (Dth) (includes propane)	403,030	408,500
Plant Eff (Dth/Mlb)	1.420	1.450
Total Gas Cost (includes propane)	\$2,600,341	\$4,013,921
Unit Cost of Fuel (\$/Dth)	\$6.452	\$9.826



Fig 4. Actual and Projected Gas Cost Comparison for FY10





### 5. Financial Reports: 3rd Qtr FY10

Item	FY10 Budget		Total Expenses to Date (3rd Qtr)		Percent of FY10 Budget
FOC: Basic	\$	3,976,200	\$	2,889,128	72.66%
FOC: 9th Chiller	\$	37,200	\$	27,071	72.77%
FOC: Change Order 6A	\$	73,400	\$	53,447	72.82%
FOC: Change Order 6B	\$	64,300	\$	46,791	72.77%
Chemicals	\$	161,200	\$	111,886	69.41%
Engineering	\$	26,200	\$	7,434	28.37%
Insurance	\$	43,700	\$	27,723	63.44%
Marketing: CEPS Sales Activity	\$	9,800	\$	_	0.00%
Metro Marketing	\$	35,000	\$	21,025	60.07%
Incentive Payments	\$	_	\$	_	n.a.
Project Administration	\$	24,000	\$	_	0.00%
Metro Incremental Cost	\$	526,400	\$	292,995	55.66%
FEA: Steam	\$	_	\$	111,102	n.a.
FEA: Chilled Water	\$	_	\$	259,187	n.a.
ARFA	\$	_	\$	41,960	n.a.
Metro Credit	\$	_	\$	(451,755)	n.a.
Water/Sewer	\$	689,600	\$	253,450	36.75%
Natural Gas/Propane	\$	4,692,900	\$	2,600,341	55.41%
Electricity	\$	5,034,100	\$	2,785,634	55.34%
EDS Repair & Improvement	\$	176,500	\$	140,085	79.37%
EDS Surcharge	\$	70,600	\$	_	0.00%
Sub-total Operations	<del>\$</del>	15,641,100	\$	9,217,505	58.93%
2002 Bonds	\$	4,362,900	\$	3,272,129	75.00%
2005 Bonds	\$	627,600	\$	796,381	126.89%
FY07 Projects	\$	227,800	\$	448,300	196.80%
FY08 Projects	\$	220,500	\$	448,300	203.31%
Debt Service Interest Revenue	\$	(123,700)	\$	(32,000)	25.87%
Oper. Reserve Funding Deposit	₩	_	\$	_	n.a.
Sub-total Debt Service	\$	5,315,100	\$	4,933,110	92.81%
Total Expenses	\$	20,956,200	\$	14,150,615	67.52%
Customer Revenues	\$	18,512,100	\$	11,593,811	62.63%
Total Metro Funding Amount	\$	2,444,100	\$	2,556,804	104.61%



### 6. FY11 Budget Status Review

Item FY10 FY11 Percent							
				Percent			
Budget			Budget	Change from			
				FY10			
\$	3,976,200	\$	3,976,200	0.00%			
-	37,200	-	37,200	0.00%			
	73,400	-	73,400	0.00%			
-	64,300	-	64,300	0.00%			
\$	161,200	\$	150,000	-6.95%			
	26,200	\$	26,200	0.00%			
\$	43,700	\$	27,700	-36.61%			
\$	9,800	\$	_	-100.00%			
	35,000	\$	15,000	-57.14%			
\$	_	\$	_	n.a.			
\$	24,000	\$	30,700	27.92%			
\$	526,400	\$	469,900	-10.73%			
\$	689,600	\$	574,000	-16.76%			
\$	4,692,900	\$	4,445,500	-5.27%			
\$	5,034,100	\$	4,949,700	-1.68%			
\$	176,500	\$	176,500	0.00%			
\$	70,600	\$	70,600	0.00%			
\$	15,641,100	\$	15,086,900	-3.54%			
\$	4,362,900	\$	4,239,500	-2.83%			
\$	627,600	\$	628,100	0.08%			
\$	227,800	\$	227,800	0.00%			
\$	220,500	\$	220,500	0.00%			
\$	_	\$	_	n.a.			
\$	(123,700)	\$	(100,000)	-19.16%			
\$	_	\$	_	n.a.			
\$	5,315,100	\$	5,215,900	-1.87%			
\$	20,956,200	\$	20,302,800	-3.12%			
\$	18,488,100	\$	17,828,000	-3.57%			
\$	24,000	\$	30,700	27.92%			
\$	_	\$	_	n.a.			
\$	2,444,100	\$	2,444,100	0.00%			
		\$ 3,976,200 \$ 37,200 \$ 73,400 \$ 64,300 \$ 161,200 \$ 26,200 \$ 43,700 \$ 9,800 \$ 35,000 \$ - \$ 24,000 \$ 526,400 \$ 689,600 \$ 4,692,900 \$ 5,034,100 \$ 176,500 \$ 70,600 \$ 15,641,100 \$ 4,362,900 \$ 627,600 \$ 227,800 \$ 220,500 \$ - \$ (123,700) \$ - \$ 5,315,100 \$ 18,488,100 \$ 24,000	\$ 3,976,200 \$ 37,200 \$ 37,200 \$ 37,200 \$ 37,3400 \$ 364,300 \$ 161,200 \$ 364,3700 \$ 365,300 \$ 365,000 \$ 365,	\$ 3,976,200 \$ 3,976,200 \$ 37,200 \$ 37,200 \$ 37,200 \$ 37,200 \$ 37,200 \$ 37,400 \$ 73,400 \$ 64,300 \$ 161,200 \$ 150,000 \$ 26,200 \$ 26,200 \$ 26,200 \$ 27,700 \$ 27,700 \$ 27,700 \$ 27,700 \$ 27,700 \$ 27,000 \$ 27			



### Capital Expenditure Update

	Spent to End of FY09	FY10 Spending	Balance to Date (04/22/10)
R&I Projects	\$764,130	\$140,465	\$503,796
2005B Bond	\$7,920,090	\$142,032	\$124,378
2007 Bond	\$2,620,771	\$0	\$237,729
2008 Bond	\$1,846,622	\$1,031,878	\$0
2010 Bond	\$0	\$99,994	\$2,310,006
Total	\$10,530,842	\$1,414,369	\$3,175,909



### 7. Capital Projects Review

#### Active Capital Projects

- DES 060: MH Insulation in construction/ongoing
- DES 061: Manhole & Tunnel Steel Corrosion Repair & Prevention in design
- DES 062: Replacement of Stm and Cond Service to 120 2<sup>nd</sup> Ave. North (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. awaiting formal award
- DES 068: Manhole 10 Repair in construction
- DES 069: Municipal Auditorium Tempering Station in construction
- DES 073: MH-18 Condensate and Platform Modification awaiting DES 067
- DES 076: MH-S4A State Manhole Rebuild in design; constr. to begin in June
- DES 077: Expansion of Service to the Music City Convention Center in design



#### FY 2010 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

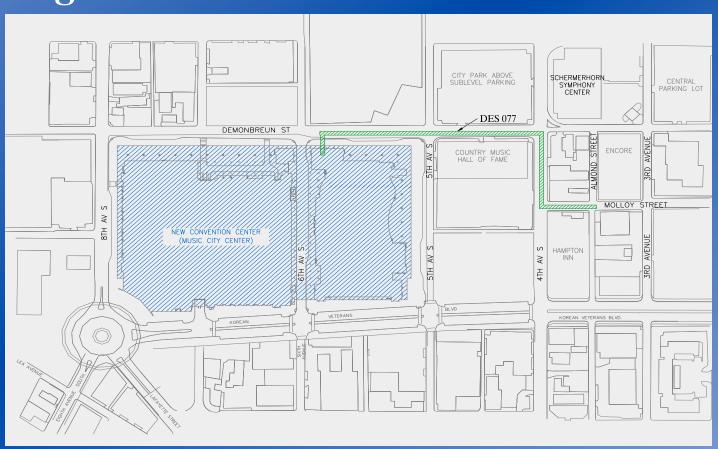


# 8. Music City Convention Center Expansion Update

- 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
- Design Progressing w/Bid Date by 06/11/2010
- "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 (05/14/10) \$32,000
- Anticipated Budget Cost
  - Electrical/Lighting \$16,000 to \$20,000
  - Communications System \$40,000 to \$60,000
  - Insulation \$80,000 to \$120,000
  - Total Anticipated Cost \$168,000 to \$232,000





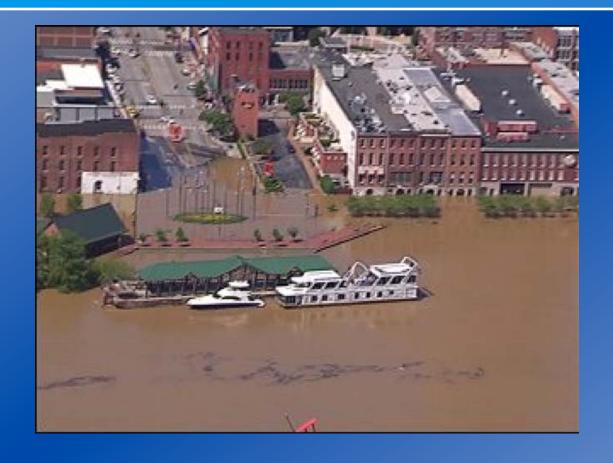
First Avenue South-Looking North from Shelby St Bridge





First Avenue South-Looking South from Shelby St Bridge





River Front Park



### 10. Adjourn