

DES Advisory Board Meeting Second Quarter FY11 February 17, 2011



Agenda

- 1. Call to Order
- 2. Review & Approval of Previous Meeting Minutes
- 3. Customer Sales
- 4. Review of DES Contractor Performance
- 5. Natural Gas Purchasing Status
- 6. FY11 Costs to Date
- 7. FY12 Budget Status Report
- 8. Capital Projects Review & Status Report Update
- 9. MCCC Expansion Update
- 10. Other Board Member Items
- 11. Adjourn





1. Call to Order

2. Review and Approval of Previous Meeting Minutes





3. Customer Sales

Table 3: Customer Cost Comparison

• Figure 3: Customer Cost Breakdown



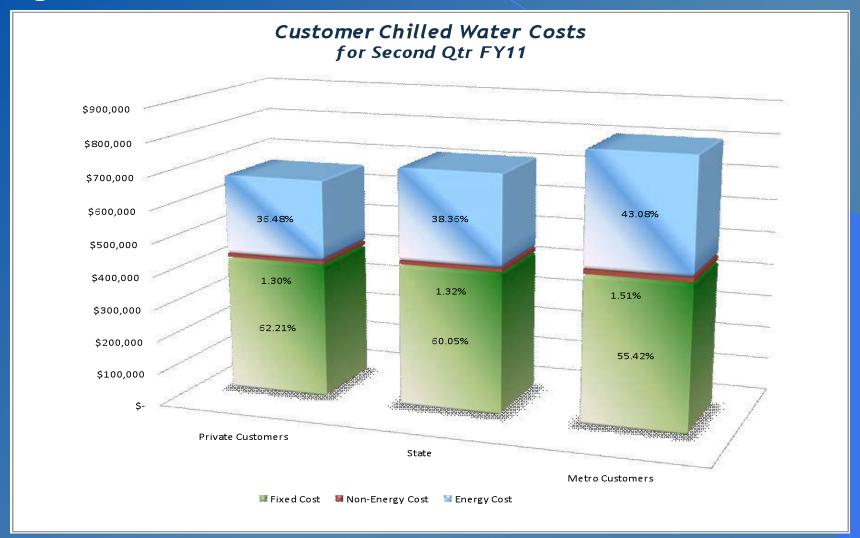
Summary Table 3: Customer Cost Comparison for the Previous 12 Months

		Steam -	Rolling 12 Mo	nth	Chilled Water - Rolling 12 Mon			
		Jan 09 - Dec 09	Jan 10 - Dec 10	% Diff.	Jan 09 - Dec 09	Jan 10 - Dec 10	% Diff.	
Private	Cost	\$ 1,943,006	\$ 1,751,057	-9.88%	\$ 3,497,253	\$ 3,729,948	6.65%	
	Usage (lbs or tonhrs)	79,704,525	72,994,060	-8.42%	17,107,396	19,246,224	12.50%	
	Unit Cost	\$ 24.38	\$ 23.99	-1.6%	\$ 0.204	\$ 0.194	-5.2%	
State	Cost	\$ 2,513,307	\$ 2,267,230	-9.79%	\$ 3,190,955	\$ 3,344,044	4.80%	
	Usage (lbs or tonhrs)	99,497,680	93,930,258	-5.60%	16,385,249	17,254,239	5.30%	
	Unit Cost	\$ 25.26	\$ 24.14	-4.4%	\$ 0.195	\$ 0.194	-0.5%	
Metro	Cost	\$ 2,225,105	\$ 2,006,354	-9.83%	\$ 2,967,349	\$ 3,117,595	5.06%	
	Usage (lbs or tonhrs)	87,881,307	84,545,163	-3.80%	17,106,512	18,348,969	7.26%	
	Unit Cost	\$ 25.32	\$ 23.73	-6.3%	\$ 0.173	\$ 0.170	-2.1%	
Aggregate	Cost	\$ 6,681,418	\$ 6,024,641	-9.83%	\$ 9,655,557	\$ 10,191,587	5.55%	
	Usage (lbs or tonhrs)	267,083,512	251,469,481	-5.85%	50,599,157	54,849,432	8.40%	
	Unit Cost	\$ 25.02	\$ 23.96	-4.2%	\$ 0.191	\$ 0.186	-2.63%	

*FY09 MFA = \$3,217,986; FY10 MFA = \$2,661,553 post-True-up; MFA not included in values shown



Figure 3: Customer Cost Breakdown





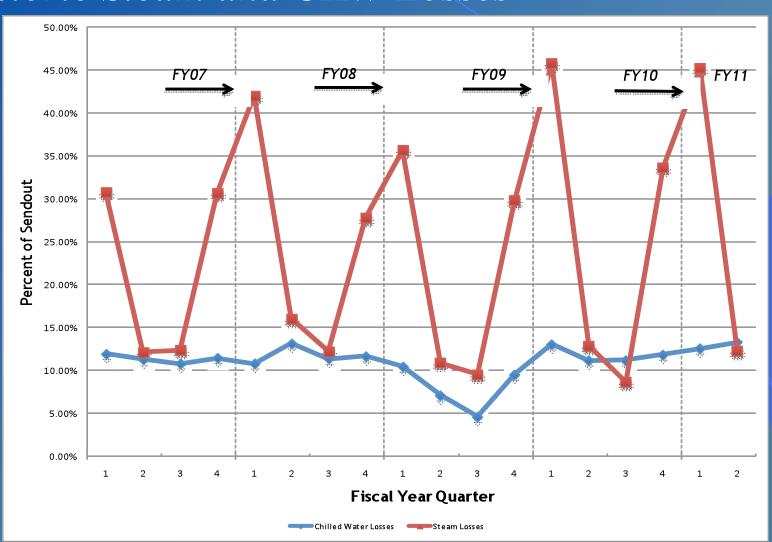
4. Review of DES Contractor Performance

Contractor (CEPS) is in compliance with their contractual obligations for FY11.

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

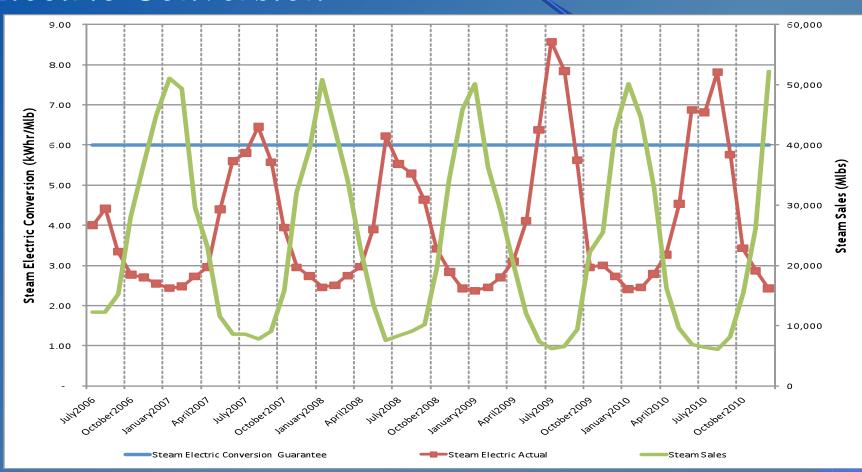


Historic Steam and CHW Losses



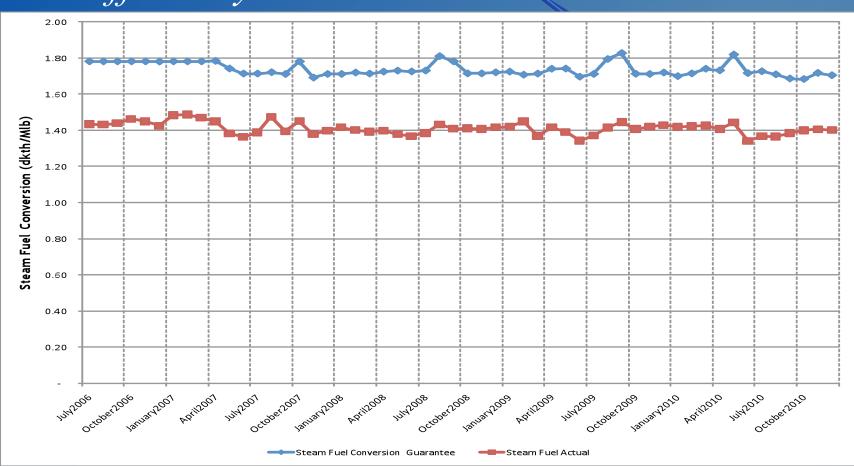


Performance Measurement FY11: Steam Electric Conversion



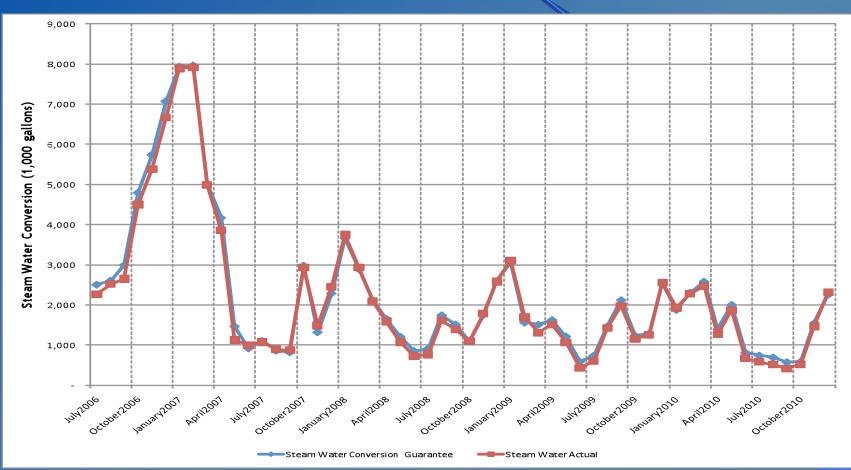


Performance Measurement FY11: Steam Plant Efficiency



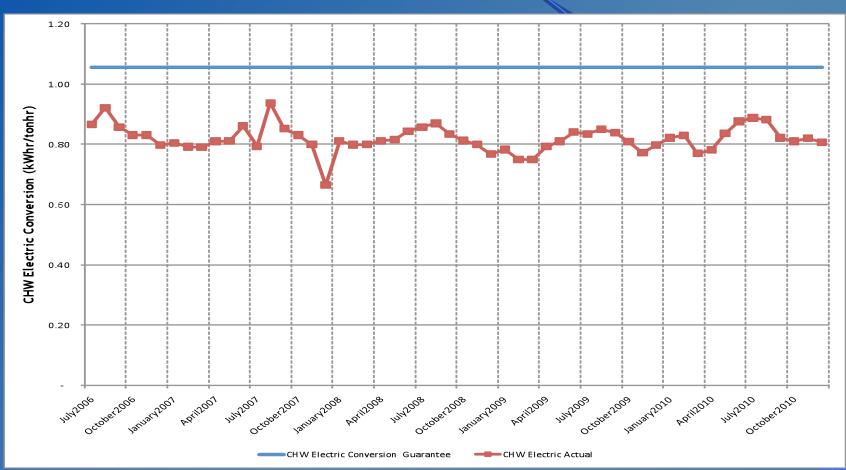


Performance Measurement FY11: Steam Water Conversion



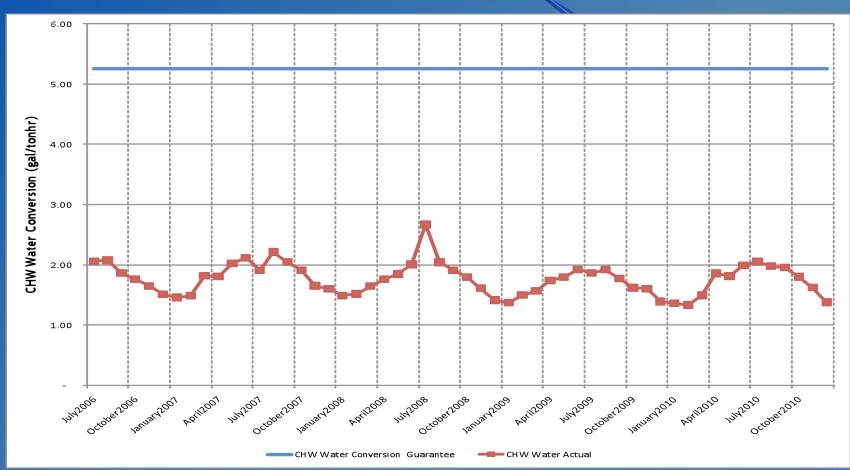


Performance Measurement FY11: CHW Electric Conversion





Performance Measurement FY11: CHW Water Conversion





Water Treatment

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



EGF Walkthrough

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



EDS Walkthrough

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



5. Natural Gas Purchasing

- Natural Gas Purchasing Review
 - Table 5: FY11 Gas Spending & Budget Comparison
 - Figure 5: Actual and Projected Gas Cost Comparison for FY11

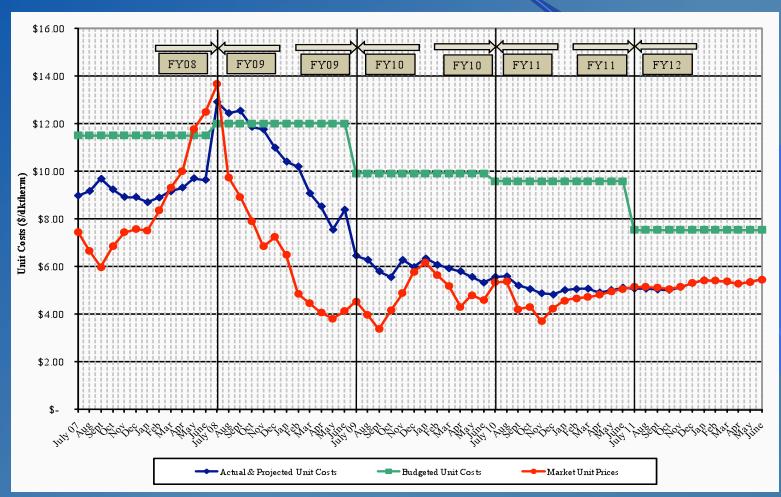


Table 5: FY11 Gas Spending & Budget Comparison

	Actual FY11	Budget FY11
	To date (Dec 31)	
Steam Sendout (Mlbs)	144,516	144,500
Fuel Use (Dth)	201,539	203,600
(includes propane)	201,339	203,000
Plant Eff (Dth/Mlb)	1.395	1.409
Total Gas Cost	\$1,112,249	\$1,907,121
(includes propane)	 \$1,112,249	\$1,907,121
Unit Cost of Fuel (\$/Dth)	\$5.519	\$9.367



Figure 5. Actual and Projected Gas Cost Comparison History





6. FY11 Costs to Date

Item					Percent	
		FY11 Budget		Y11 Actual to 12/31/10	of Budget	
			ι	0 12/31/10		
FOC's	\$	4,151,100	\$	2,064,651	49.74%	
Pass Throughs						
Non-Energy	\$	982,600	\$	469,024	47.73%	
Water/Sewer		574,000	\$	224,839	39.17%	
Natural Gas	\$	4,429,200	\$	1,112,249		
Electricity	\$	4,949,700	\$	2,321,705		
Debt Service	\$	5,223,000	\$	2,389,077	45.74%	
Total Expenses		20,309,600	\$	8,581,545	42.25%	
Total Revenues		17,858,700	\$	7,794,758	43.65%	
Metro Funding Amount		2,450,900	\$	786,787	32.10%	

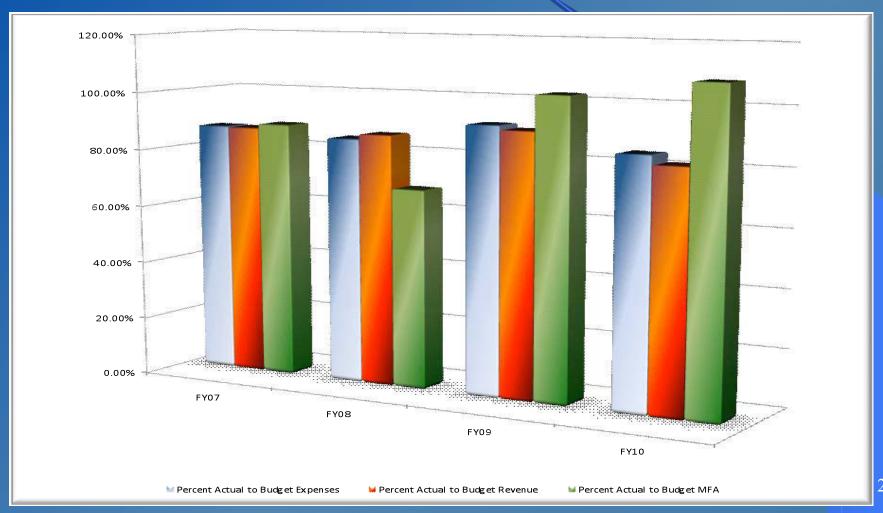


7. FY12 Budget Status Report

Item							Percent Change	Percent Change
100111		FY10 Actual		FY11 Budget		Y12 Budget	FY12 to	FY12 to
	_	110 110 110	Tili Dauget		F112 Duuget		FY10 Actual	FY11 Budget
							1 1 10 1 1 ctual	1111 Buuget
FOC's	\$	4,151,100	\$	4,151,100	\$	4,303,100	3.53%	3.53%
Pass Throughs								
Non-Energy	\$	798,699	\$	982,600	\$	1,031,600	22.58%	4.75%
Water/Sewer	\$	414,307	\$	574,000	\$	594,700	30.33%	3.48%
Natural Gas	\$	3,152,310	\$	4,429,200	\$	4,429,200	28.83%	0.00%
Electricity	\$	4,041,188	\$	4,949,700	\$	5,189,500	22.13%	4.62%
Debt Service	\$	5,326,665	\$	5,223,000	\$	5,703,700	6.61%	8.43%
Total Expenses	\$	17,884,269	\$	20,309,600	\$	21,251,800	15.85%	4.43%
Total Revenues	\$	15,222,716	\$	17,865,500	\$	18,955,500	19.69%	5.75%
Metro Funding Amount		2,661,552	\$	2,444,100	\$	2,296,300	-15.91%	-6.44%



Historic Budgeted and Actual Costs





8. Capital Expenditure Update

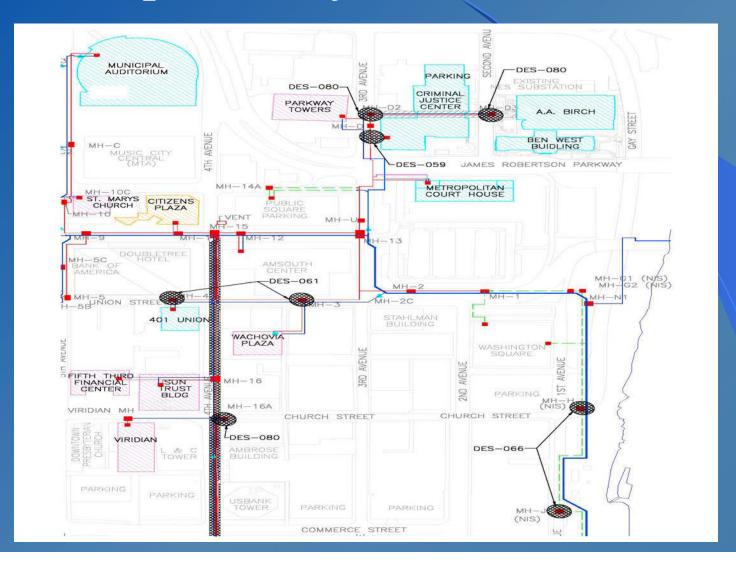
	Spent to End of FY10	FY11 Spending	Balance to Date (02/03/11)
R&I Projects	\$976,742	\$37,096	\$600,470
2005B Bond	\$8,054,218	\$49,123	\$83,159
2007 Bond	\$2,620,771	\$0	\$237,729
2010 Bond	\$412,384	\$567,878	\$7,517,488
Total	\$12,064,115	\$654,097	\$8,438,846



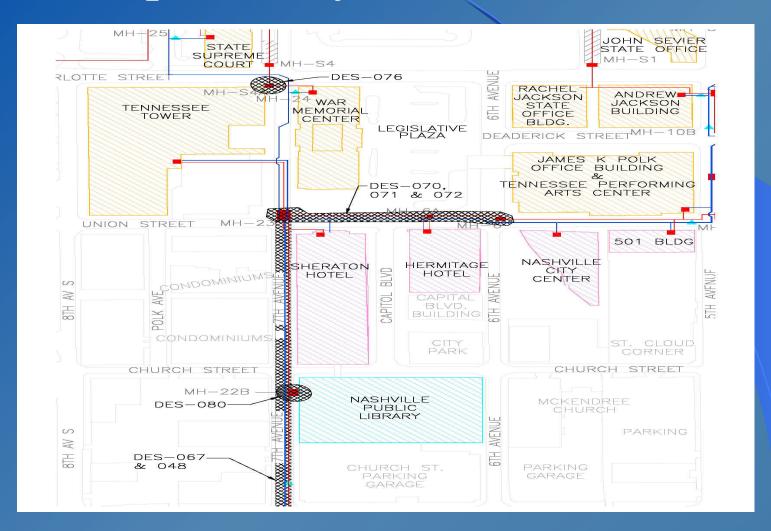
Capital Projects Review

- DES 060: MH Insulation in construction/ongoing
- DES 061: Manhole & Tunnel Steel Corrosion Repair & Prevention in construction/ongoing
- DES 067: Tunnel Rock Rehabilitation.: Broadway, 7th & 4th Ave. in construction; substantial completion anticipated in 3rd Qtr FY11
- DES 076: MH-S4A State Manhole Rebuild on hold; awaiting completion of the State alternate fiber optic duct
- DES 077: Expansion of Service to the Music City CC in construction
- DES 080: Misc. Manhole & Tunnel Safety Repairs in design

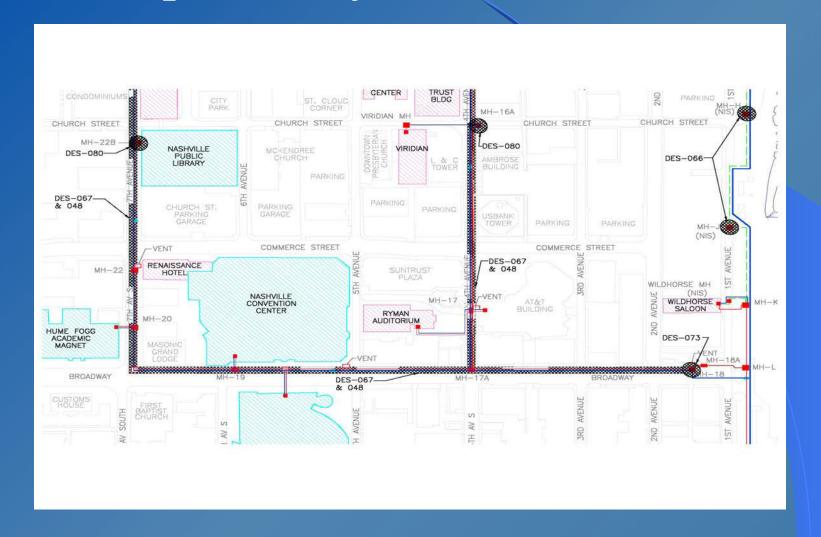




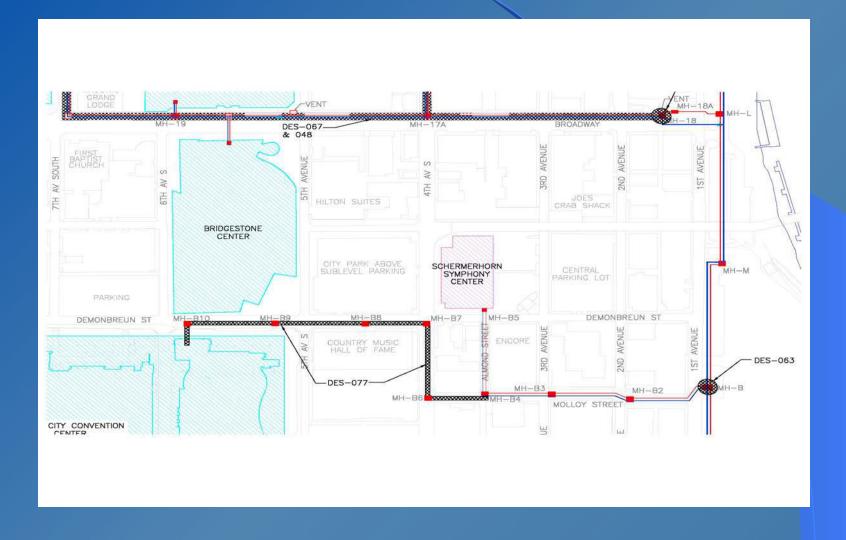














Capital Projects Review

Capital Projects in Close-out

- DES 059: CJC Condensate Service Line Repair construction completed during 1st Qtr FY11; closeout to occur in 3rd Qtr FY11
- DES 063: Manhole A, B & M Sump Pump Installation Manhole B complete; closeout to occur in 3rd Qtr FY11
- DES 066: 1st Avenue Manhole & Steam Line Removal from Service in closeout
- DES 073: MH-18 Platform Modification construction completed during 2nd Qtr FY11; closeout to occur in 3rd Qtr FY11
- DES 081: Flood Related Repairs construction complete; in closeout





Capital Projects Review

FY10-11 Proposed Projects

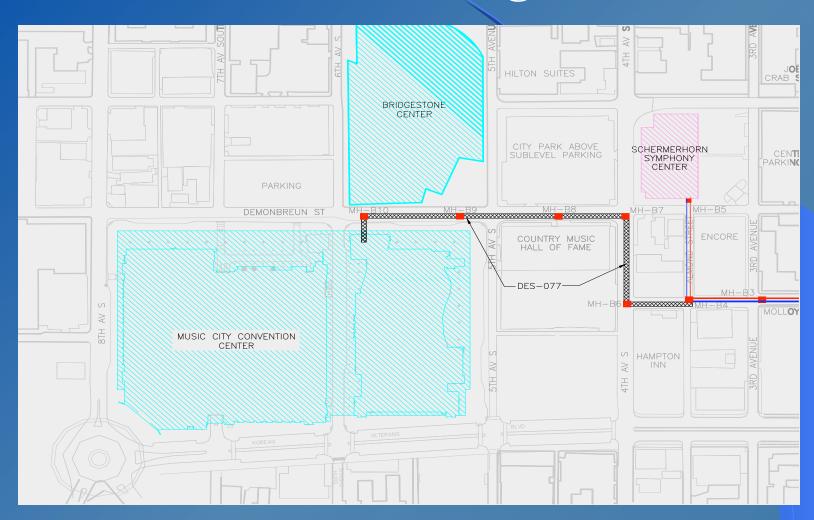
- DES 048: Tunnel Lighting Replacement Phase III awaiting DES 067
- DES 070: MH 6 to 23 Condensate Line Replacement
- DES 071: Hermitage Hotel Service Modifications
- DES 072: Sheraton Hotel Steam and Condensate Replacement



- 9. Music City Convention Center Expansion Update
 - Construction Began October 2010
 - Four of Five New Vaults Set
 - Direct-Buried Piping Progressing
 - "Service Ready" Anticipated 04/15/2011



MCCC Location & Routing Plan



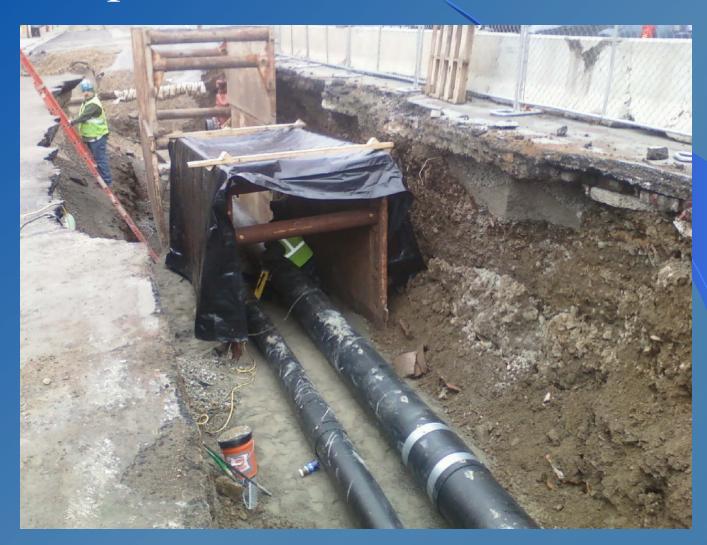


Wall Penetration into MCCC





Steam Pipe and Trench on 4th Ave S





MH-B6 (Base)



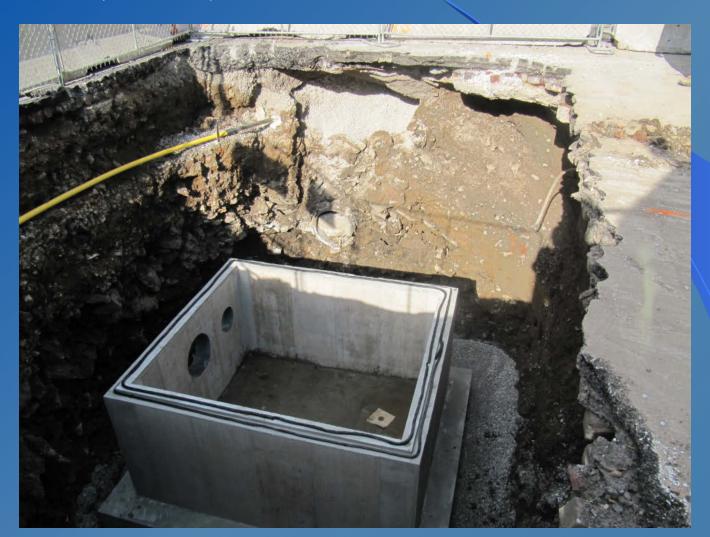


MH-B6 (Both Halves)





MH-B7 (Base)





MH-B7 (Both Halves)





MH-B7





10. Other Board Member Items

Customer Survey Form

11. Adjourn

Advisory Board Meeting Schedule

- FY11 3rd Quarter Meeting May 19, 2011
- FY11 4th Quarter Meeting August 17, 2011
- FY12 1st Quarter Meeting November 16, 2011
- FY12 2nd Quarter Meeting February 16, 2012