

DES Advisory Board Meeting Second Quarter FY20 February 26, 2020

Agenda



- Call to Order
- 2. Election of Officers
- 3. Review & Approval of Previous Meeting Minutes
- 4. Customer Sales
- 5. Review of DES Contractor Performance
- 6. Natural Gas Purchasing Update
- 7. FY20 Costs to Date
- 8. FY20 Budget
- 9. Marketing
- 10. DES RFP Status Update
- 11. Capital Projects Review & Status
- 12. Other Board Member Items
- 13. Adjourn



1. Call to Order

2. Election of Officers



Advisory Board Members and Terms

Permanent Members:

Metro Director of Finance
Metro Director of General Services
Executive Director of MDHA
Representative of State of TN

Metro Council Representative (Freddie O'Connell, exp. concurrent with office; Aug 2023)

Private with Four Year Terms:

ISC Private Customer (Nick Woollen, exp. Aug 2021) New Private Customer (Eric Schwartz, exp. Aug 2021) Public Member (Brian Taylor, exp. June 2023) Public Member (Yuri Cunza, exp. July 2021)



3. Review & Approval of Previous Meeting Minutes



4. Customer Sales

Summary Table 4: Customer Cost Comparison for the Previous 12 Months

		Steam - Rolling 12 Month			Chilled Water - Rolling 12 Month			
		Jan 2018 - Dec 2018	Jan 2019 - Dec 2019	% Diff.	Jan 2018 - Dec 2018	Jan 2019 - Dec 2019	% Diff.	
Private	Cost	\$ 1,497,197	\$ 1,441,747	-3.70%	\$ 3,817,880	\$ 3,707,481	-2.89%	
	Usage (lbs or tonhrs)	102,114,226	100,360,047	-1.72%	20,121,301	19,982,794	-0.69%	
State	Cost	\$ 1,875,324	\$ 1,741,810	-7.12%	\$ 3,347,508	\$ 3,208,378	-4.16%	
	Usage (lbs or tonhrs)	123,945,050	110,602,780	-10.76%	14,146,753	12,712,201	-10.14%	
Metro	Cost	\$ 1,903,237	\$ 1,843,393	-3.14%	\$ 5,141,555	\$ 4,972,753	-3.28%	
	Usage (lbs or tonhrs)	155,649,051	158,932,509	2.11%	28,732,588	29,127,362	1.37%	
Aggregate	Cost	\$ 5,275,758	\$ 5,026,950	-4.72%	\$12,306,943	\$11,888,612	-3.40%	
	Usage (lbs or tonhrs)	381,708,327	369,895,336	-3.09%	63,000,642	61,822,357	-1.87%	
	Unit Cost	\$ 13.82	\$ 13.59	-1.7%	\$ 0.195	\$ 0.192	-1.56%	

MFA is not included in values shown



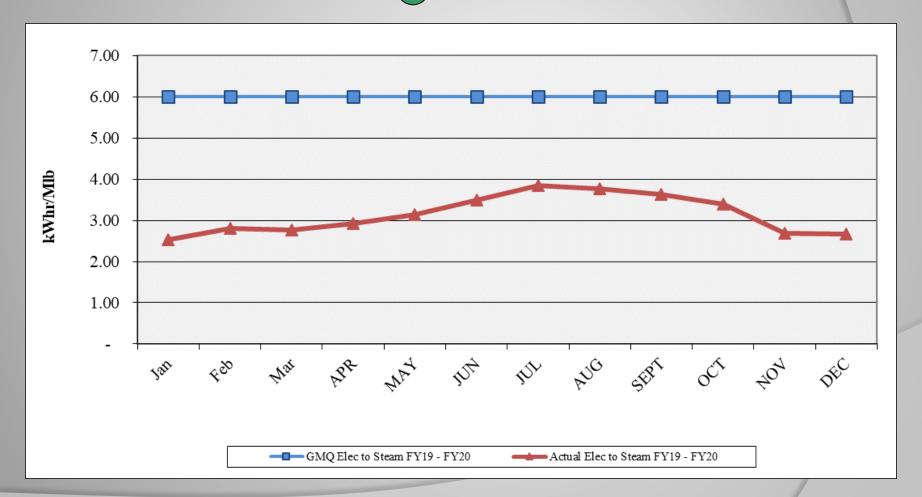
5. Review of DES Contractor Performance

Contractor (CNE) is in compliance with their contractual obligations for FY20 to date.

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



Performance Measurement FY20: Steam Electric Conversion



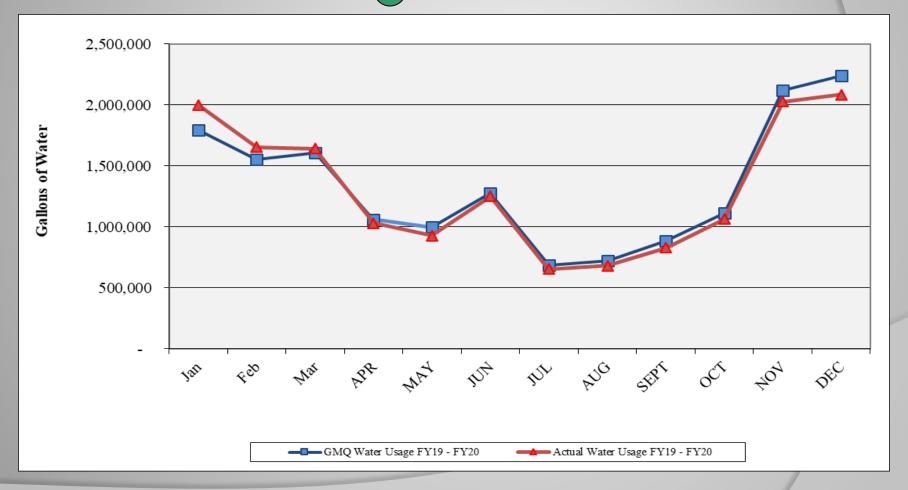


Performance Measurement FY20: Steam Plant Efficiency



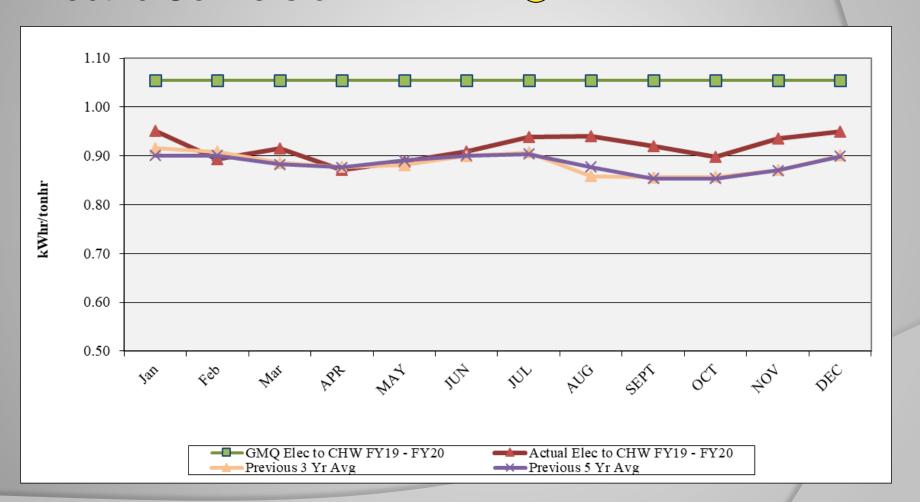


Performance Measurement FY20: Steam Water Conversion



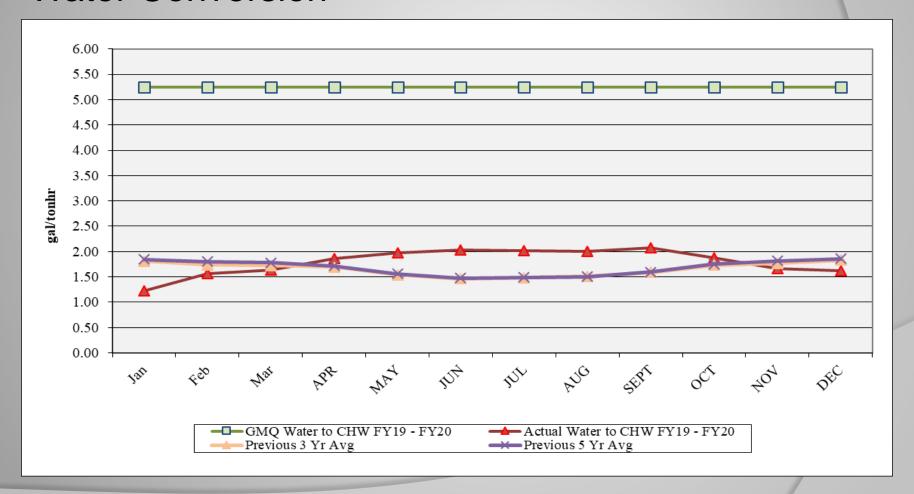


Performance Measurement FY20: CHW Electric Conversion





Performance Measurement FY20: CHW Water Conversion





Water Treatment

Q2FY20 Q1FY20 Q4FY19 Q3FY19

- Steam and Condensate

- Corrosion
- ❖ Iron
- Hardness
- ❖ Chlorine/Sulfite
- Condensing Water
 - Conductivity
 - Biologicals
- Chilled Water
 - Hardness
 - Corrosion
 - EGF and Customer Biologicals Good
 - Deposits

















EGF Walkthrough

Q2FY20 Q1FY20 Q4FY19 Q3FY19

✓ Equipment Maintenance





✓ Operations





✓ Electrical









✓ Housekeeping









✓ Building Structure









Building Exterior and Grounds











EDS Walkthrough

Q2FY20 Q1FY20 **O4FY19 O3FY19**

✓ Vault/Tunnel Housekeeping



- ✓ Maintenance Items
 - ✓ Insulation Repair/Replacement
 - ✓ Water Infiltration
 - ✓ Corrosion of Structural **Metal Components**
- ✓ Safety Items







































6. Natural Gas Purchasing

- Natural Gas Purchasing Review
 - Table 5: FY20 Gas Spending & Budget Comparison
 - ❖ Figure 5: Actual and Projected Gas Cost Comparison



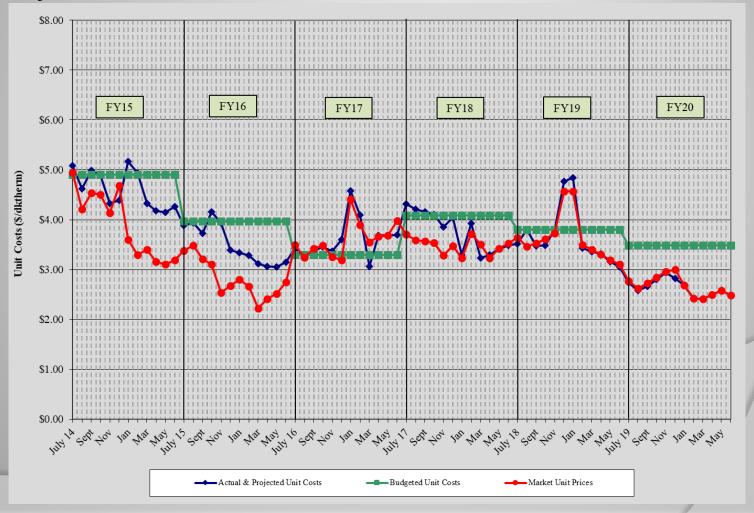
Table 6: FY20 Gas Spending & Budget Comparison

	Actual FY20 To date (Dec 31)	Budget FY20	Percent Difference
Steam Sendout (Mlbs)	197,427	195,526	1.0%
Fuel Use (Dth) (includes propane)	269,053	284,100	-5.3%
Plant Eff (Dth/Mlb)	1.363	1.453	-6.2%
Total Gas Cost (includes propane)	\$813,640	\$988,669	-17.7%
Unit Cost of Fuel (\$/Dth)	\$3.024	\$3.480	-13.1%

Excludes consultant fees and FEA and budget contingency; Includes transportation and actual propane costs and usages



Figure 6. Actual and Projected Gas Cost Comparison History





7. FY20 Costs to Date

Item		FY20 Budget		Y20 Actual to date	Percent of FY20 Budget
FOC's	\$	4,601,600	\$	2,315,253	50.31%
Pass Throughs		0.2.4.200	_		- 4 40 a l
Non-Energy	\$	934,300	\$	669,167	71.62%
Water/Sewer	\$	714,000	\$	316,588	44.34%
Fuel Base		2,575,700	\$	847,896	32.92%
Fuel Contingency		507,000	\$	-	0.00%
Electricity	\$	5,977,200	\$	2,771,790	46.37%
ORF Deposit	\$	-	\$	-	
Debt Service	\$	5,079,200	\$	2,383,398	46.92%
Total Expenses		20,389,000	\$	9,304,093	45.63%
Total Revenues		19,070,500	\$	8,753,255	45.90%
Metro Funding		1,318,500	\$	550,838	41.78%



8. FY20 Budget

Item					Percent
		FY19 Budget		Y20 Budget	Change From
					FY19 Budget
FOC's	\$	4,804,000	\$	4,601,600	-4.21%
Pass Throughs					
Non-Energy	\$	1,180,500	\$	934,300	-20.86%
Water/Sewer	\$	751,900	\$	714,000	-5.04%
Natural Gas Base		2,173,300	\$	2,575,700	18.52%
Natural Gas Contingency		816,400	\$	507,000	-37.90%
Electricity	\$	5,646,100	\$	5,977,200	5.86%
ORF Deposit	\$	-	\$	-	
Debt Service	\$	5,420,200	\$	5,079,200	-6.29%
Total Expenses	\$	20,792,400	\$	20,389,000	-1.94%
Total Revenues		19,152,100	\$	19,070,500	-0.43%
Metro Funding	\$	1,640,300	\$	1,318,500	-19.62%



9. Marketing

Remaining Capacity for Sale (approximate)

- 2,429 tons of chilled water
- 24,622 pph of steam

New and Potential Customers

- Hyatt Centric (3rd Ave and Molloy)
 - CSA has been executed
 - 255-ton contract capacity; no steam
 - Service during construction Spring 2020; April 2021 opening
- Service to Lot K
 - Site directly to the east of EGF
 - Early stages of communication
 - Potential ~1,000 ton and ~15,000 pph



Marketing (con't)

- Service to New KVB Hotels
 - Two hotels with retail space; discussions favorable
 - Site is between 1st Ave S, 2nd Ave S, KVB and Peabody St
 - Potential ~1,400 tons and ~20,000 pph
- Peabody St Hotel
 - Early stages of communications
 - Potential 2,000 to 3,000 tons
- Added DES to List of Utilities on Metro Website
- New Development North of KVB
 - Early stages of communications
 - Potential ~1,100 tons and ~15,000 pph



Customer Changes of Ownership

- City Center (511 Union) from 511 Union Nashville, LLC to CPVF III NCC LLC
- Parkway Towers (404 James Robertson) from PHR Parkway, LLC to 404 James Robertson Prop, LLC

Customer Changes of Management

- Viridian Condominiums
- Sheraton Grand Nashville Hotel



10. DES RFP Status Update

DES-139

- Constellation's appeal on hold
- Sale to Engie on hold as Metro evaluates options



11. Capital Expenditure Update

	Spent to End of FY19	FY20 Spending	Balance to Date (01/16/20)
R&I Projects	\$3,675,354	\$158,297	\$73,184
49109-2010 Bond	\$2,596,698	\$1,227	\$7,991
49107-DES Infrastructure Fund	\$8,497,779	\$2,182	\$39
49116-DES Infrastructure Fund	\$822,320	\$558,337	\$379,344
Total	\$15,592,151	\$720,043	\$460,558



Active Capital Projects

- DES 133.1: Broadway Tunnel Damage Recovery: ongoing
- DES 135: Closed during 2nd Qtr FY20
- DES 152: MH A & M Coating Repairs postponed until FY20; anticipate bidding in 2nd or 3rd Qtr FY20
- DES 153: MH L Repairs additional repairs may be added to scope; to be bid 2nd or 3rd Qtr FY20
- DES 154: Manhole K Repairs postponed until FY20; will review priority relative to other projects



Active Capital Projects - continued

- DES 157: MH 9 Repairs bid in 1st Qtr FY20; construction inprogress; anticipated completion during 3rd Qtr FY20
- DES 159: MH B2 Repairs bid in 1st Qtr FY20; construction inprogress; anticipated completion during 3rd Qtr FY20
- DES 160: 5th + Broadway Service Connection connections for service completed; awaiting install of instruments
- DES 161: MH S6 Insulation postponed until FY20; anticipate bidding during 2nd or 3rd Qtr FY20



Active Capital Projects - continued

- DES 162: Hyatt Centric Service wet-taps complete; pipe install to be completed during 3rd Qtr FY20
- DES 163: MDHA Parcel K Service negotiations with new customer in early stages
- DES 168: DES Service to 1st and KVB Hotels negotiations with new customer in early stages
- DES 169: MH 20 Repairs pipe supports corroded, require replacement; bid during 2nd Qtr FY20; work anticipated during 3rd Qtr FY20



Capital Projects in Close-out/Closed

- DES135: Chilled Water Leak Repairs
- DES170: Manhole 18 Anchor Repairs Phase II



12. Other Board Member Items

13. Adjourn

- > Advisory Board Meeting Schedule
- > FY20 3rd Quarter Meeting May 21, 2020
- > FY20 4th Quarter Meeting August 20, 2020
- ➤ FY21 1st Quarter Meeting November 19, 2020
- ➤ FY21 2nd Quarter Meeting February 18, 2021