

DES Advisory Board Meeting Fourth Quarter FY19 August 15, 2019



## Agenda

- Call to Order
- 2. Review & Approval of Previous Meeting Minutes
- 3. Customer Sales
- 4. Review of DES Contractor Performance
- 5. Natural Gas Purchasing Update
- 6. FY19 Costs to Date
- 7. FY20 Budget
- 8. Marketing
- 9. DES RFP Status Update
- 10. Capital Projects Review & Status
- 11. Other Board Member Items
- 12. Adjourn



1. Call to Order

# 2. Review & Approval of Previous Meeting Minutes



### 3. Customer Sales

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

		Steam - Rolling 12 Month		Chilled Water - Rolling 12 Month			
		July 2017 - June 2018	July 2018 - June 2019	% Diff.	July 2017 - June 2018	July 2018 - June 2019	% Diff.
Private	Cost	\$ 1,442,405	\$ 1,549,041	7.39%	\$ 3,749,912	\$ 3,801,301	1.37%
	Usage (lbs or tonhrs)	99,640,278	102,454,396	2.82%	19,215,465	19,830,517	3.20%
State	Cost	\$ 1,780,812	\$ 1,881,143	5.63%	\$ 3,346,892	\$ 3,297,782	-1.47%
	Usage (lbs or tonhrs)	114,928,533	118,780,686	3.35%	13,769,352	13,473,126	-2.15%
Metro	Cost	\$ 1,836,383	\$ 1,983,655	8.02%	\$ 4,985,310	\$ 5,123,435	2.77%
	Usage (lbs or tonhrs)	152,358,885	158,062,415	3.74%	26,929,639	28,673,437	6.48%
Aggregate	Cost	\$ 5,059,600	\$ 5,413,839	7.00%	\$12,082,113	\$12,222,518	1.16%
	Usage (lbs or tonhrs)	366,927,696	379,297,497	3.37%	59,914,456	61,977,080	3.44%
	Unit Cost	\$ 13.79	\$ 14.27	3.5%	\$ 0.202	\$ 0.197	-2.20%

MFA not included in values shown



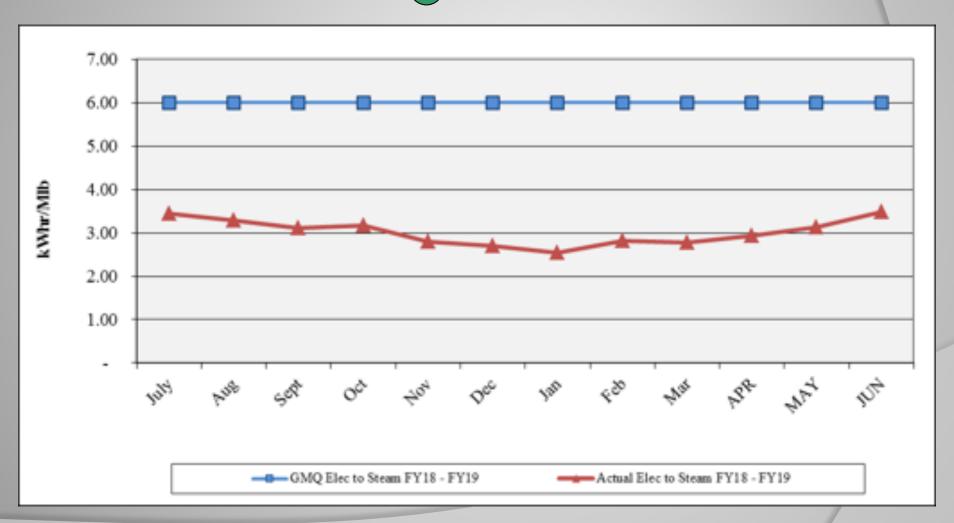
## 4. Review of DES Contractor Performance

Contractor (CNE) is in compliance with their contractual obligations for FY19 to date.

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

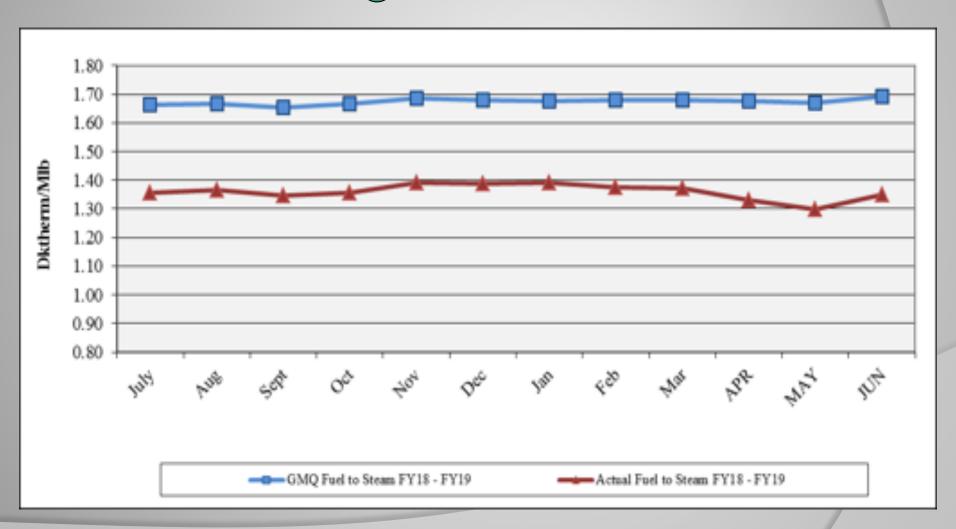


# Performance Measurement FY19: Steam Electric Conversion



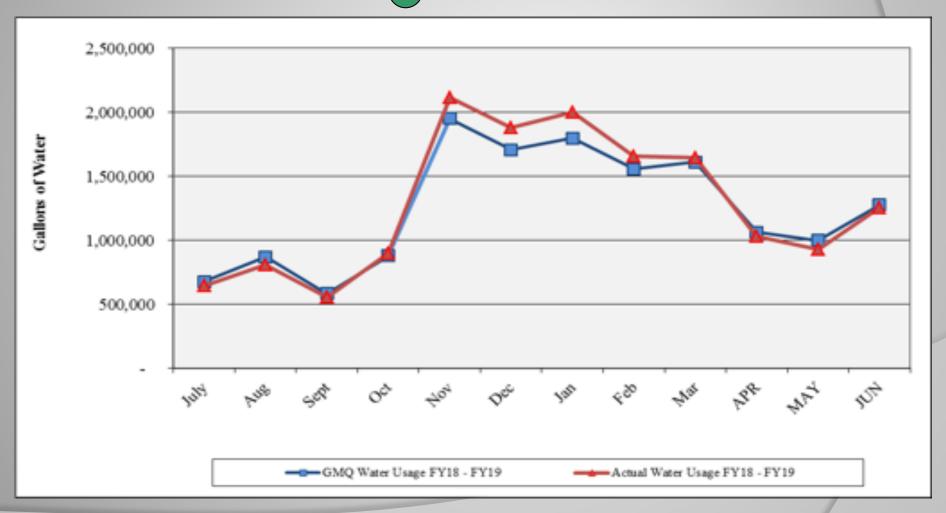


# Performance Measurement FY19: Steam Plant Efficiency



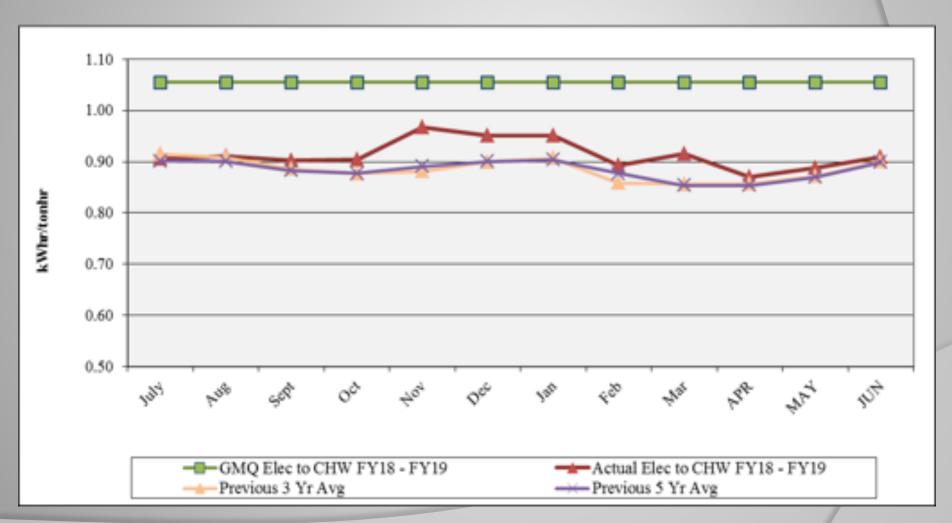


# Performance Measurement FY19: Steam Water Conversion



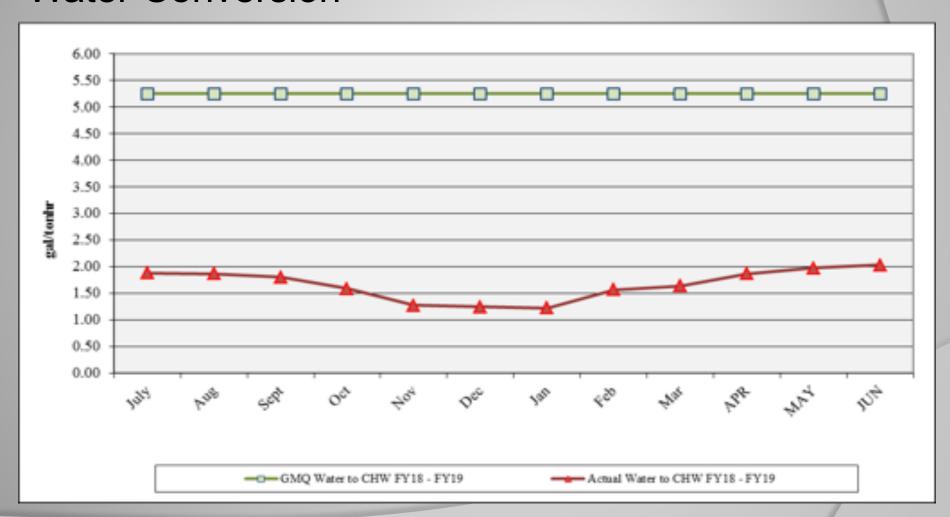


# Performance Measurement FY19: CHW Electric Conversion





# Performance Measurement FY19: CHW Water Conversion





### Water Treatment

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

Q4 Q3









## EGF Walkthrough

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

Q4 Q3















## EDS Walkthrough

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

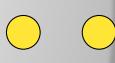
Q4 Q3















## 5. Natural Gas Purchasing

- Natural Gas Purchasing Review
  - ❖Table 5: FY19 Gas Spending & Budget Comparison
  - ❖ Figure 5: Actual and Projected Gas Cost Comparison



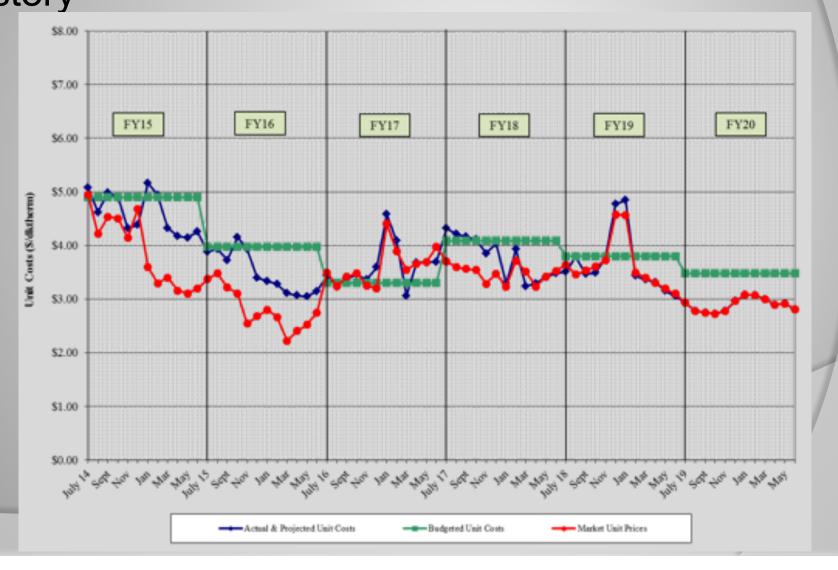
# Table 5: FY19 Gas Spending & Budget Comparison

	Actual FY19 To date (June 30)	Budget FY19	Percent Difference
Steam Sendout (Mlbs)	439,458	409,396	7.3%
Fuel Use (Dth) (includes propane)	601,044	594,853	1.0%
Plant Eff (Dth/Mlb)	1.368	1.453	-5.8%
Total Gas Cost (includes propane)	\$2,295,533	\$2,259,076	1.6%
Unit Cost of Fuel (\$/Dth)	\$3.819	\$3.798	0.6%

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



Figure 5. Actual and Projected Gas Cost Comparison History





### 6. FY19 Costs to Date

Item						Percent
	FY18 Actual		FY19 Budget		Y19 Actual	of
					to date	FY19 Budget
FOC's	\$ 4,664,100	\$	4,804,000	\$	4,654,500	96.89%
Pass Throughs						
Non-Energy	\$ 1,201,400	\$	5 1,180,500	\$	1,178,700	99.85%
Water/Sewer	\$ 643,200	\$	751,900	\$	694,800	92.41%
Natural Gas Base	\$ 2,154,800	\$	2,173,300	\$	2,173,300	100.00%
Natural Gas Contingency	\$ -	\$	816,400	\$	241,800	29.62%
Electricity	\$ 5,256,800	\$	5,646,100	\$	5,099,000	90.31%
ORF Deposit	\$ -	\$	-	\$	-	
Debt Service	\$ 5,473,800	\$	5,420,200	\$	5,419,900	99.99%
<b>Total Expenses</b>	\$ 19,394,100	\$	5 20,792,400	\$	19,462,000	93.60%
<b>Total Revenues</b>	\$ 17,171,500	\$	5 19,152,100	\$	17,825,900	93.08%
Metro Funding	\$ 2,222,600	\$	5 1,640,300	\$	1,640,300	100.00%



## 7. FY20 Budget

Item		FY19 Budget			Percent	
				Y20 Budget	<b>Change From</b>	
					FY19 Budget	
FOC's	\$	4,804,000	\$	4,601,600	-4.21%	
Pass Throughs						
Non-Energy	\$	1,180,500	\$	934,329	-20.85%	
Water/Sewer	\$	751,900	\$	714,000	-5.04%	
Natural Gas Base		2,173,300	\$	2,202,900	1.36%	
Natural Gas Contingency		816,400	\$	879,771	7.76%	
Electricity	\$	5,646,100	\$	5,977,200	5.86%	
ORF Deposit	\$	-	\$	-		
Debt Service	\$	5,420,200	\$	5,079,200	-6.29%	
<b>Total Expenses</b>		20,792,400	\$	20,389,000	-1.94%	
<b>Total Revenues</b>		19,152,100	\$	19,070,500	-0.43%	
Metro Funding	\$	1,640,300	\$	1,318,500	-19.62%	



## 8. Marketing

#### **New and Potential Customers**

- Hyatt Centric (3<sup>rd</sup> Ave and Molloy)
  - CSA execution soon
  - 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
  - Site is between 1<sup>st</sup> Ave S, 2<sup>nd</sup> Ave S, KVB and Peabody St
  - Early discussions are favorable
  - Potential ~1,400 tons and ~20,000 pph
  - New service along Peabody St

#### Four Seasons

- Early stages of communication
- Site is on 1<sup>st</sup> Ave S between Demonbreun and Shelby Sts
- Potential ~1,100 tons and ~10,000 pph



## 9. DES RFP Status Update

#### **DES-139**

- Pursuant to Metro's Award to Engie, Engie is continuing with their due diligence efforts
- Constellation appeal update
- Engie has completed the task of obtaining customer consents for the sale
- Engie developing plan to address TN Utilities Commission regulation
- Engie and Metro negotiating purchase contract



## 10. Capital Expenditure Update

	Spent to End of FY18	FY19 Spending	Balance to Date (06/30/19)
R&I Projects	\$3,353,083	\$322,271	\$63,714
49109-2010 Bond	\$2,497,999	\$98,700	\$9,217
49107-DES Infrastructure Fund	\$8,466,205	\$31,573	\$2,221
49116-DES Infrastructure Fund	\$0	\$637,891	\$1,122,109
Total	\$14,317,287	\$1,090,435	\$1,197,261



### **Active Capital Projects**

- DES 133.1: Broadway Tunnel Damage Recovery
- DES 135: CHW Leak at 5<sup>th</sup> & Union: ongoing; leak discovered at 5<sup>th</sup>/Union; repairs made; positive impact at JK Polk
- DES 151: MH 23 Repairs in close-out
- DES 152: MH A & M Coating Repairs postponed until FY20; anticipate bidding in 1<sup>st</sup> Qtr FY20
- DES 153: MH L Repairs finalizing design; to be bid 1<sup>st</sup> 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 1<sup>st</sup> Qtr FY20; work anticipated to be completed during same quarter
- DES 158: MH 18A Repairs and MH 18 Anchor Repair construction completed; MH 18A closed 4<sup>th</sup> Qtr FY19; MH 18 requires additional work to take place during the summer under new project number; in design
- DES 159: MH B2 Repairs bid in 1<sup>st</sup> Qtr FY20; work anticipated to be completed during same quarter
- DES 160: 5<sup>th</sup> + Broadway Service Connection connections for service completed; awaiting install of instruments
- DES 161: MH S6 Insulation postponed until FY20; anticipate bidding during 1<sup>st</sup> Qtr FY20



### Active Capital Projects - continued

- DES 162: Hyatt Centric Service CSA in progress; line extension in bid phase
- DES 163: MDHA Parcel K Service negotiations with new customer in early stages
- DES 164: Broadway Tunnel Repairs closed
- DES 165: AA Birch Tunnel Repairs closed
- DES 166: Misc Tunnel Repairs closed
- DES 168: DES Service to 1<sup>st</sup> and KVB Hotels negotiations with new customer in early stages
- DES 169: MH 20 Repairs pipe supports corroded, require replacement; to be bid 1<sup>st</sup> Qtr FY20



#### Capital Projects in Close-out/Closed

DES 151: MH 23 Repairs

DES 164: Broadway Tunnel Repairs

DES 165: AA Birch Tunnel Repairs

DES 166: Miscellaneous Tunnel Repairs



### 11. Other Board Member Items

## 12. Adjourn

- > Advisory Board Meeting Schedule
- ➤ FY20 1<sup>st</sup> Quarter Meeting November 21, 2019
- ➤ FY20 2<sup>nd</sup> Quarter Meeting February 20, 2020
- > FY20 3<sup>rd</sup> Quarter Meeting May 21, 2020
- > FY20 4<sup>th</sup> Quarter Meeting August 20, 2020