

DES Advisory Board Meeting
Third Quarter FY20
May 21, 2020



Agenda

- Call to Order
- 2. Review & Approval of Previous Meeting Minutes
- 3. Customer Sales
- 4. nCOVID-19 Response
- 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. 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			
		Apr 2018 - Mar 2019	Apr 2019 - Mar 2020	% Diff.	Apr 2018 - Mar 2019	Apr 2019 - Mar 2020	% Diff.
Private	Cost	\$ 1,551,274	\$ 1,337,044	-13.81%	\$ 3,833,961	\$ 3,745,906	-2.30%
	Usage (lbs or tonhrs)	105,552,428	96,990,379	-8.11%	20,131,792	20,034,342	-0.48%
State	Cost	\$ 1,896,289	\$ 1,630,976	-13.99%	\$ 3,353,126	\$ 3,202,633	-4.49%
	Usage (lbs or tonhrs)	123,187,618	105,276,649	-14.54%	14,043,048	12,608,214	-10.22%
Metro	Cost	\$ 1,969,735	\$ 1,686,055	-14.40%	\$ 5,216,003	\$ 4,906,028	-5.94%
	Usage (lbs or tonhrs)	160,265,362	152,699,848	-4.72%	29,132,008	28,999,663	-0.45%
Aggregate	Cost	\$ 5,417,298	\$ 4,654,075	-14.09%	\$12,403,090	\$11,854,567	-4.42%
	Usage (lbs or tonhrs)	389,005,408	354,966,876	-8.75%	63,306,848	61,642,219	-2.63%
	Unit Cost	\$ 13.93	\$ 13.11	-5.9%	\$ 0.196	\$ 0.192	-1.84%

MFA, True-up, late fees and misc. are not included in values shown



Figure 3A. Historic Chilled Water Sales

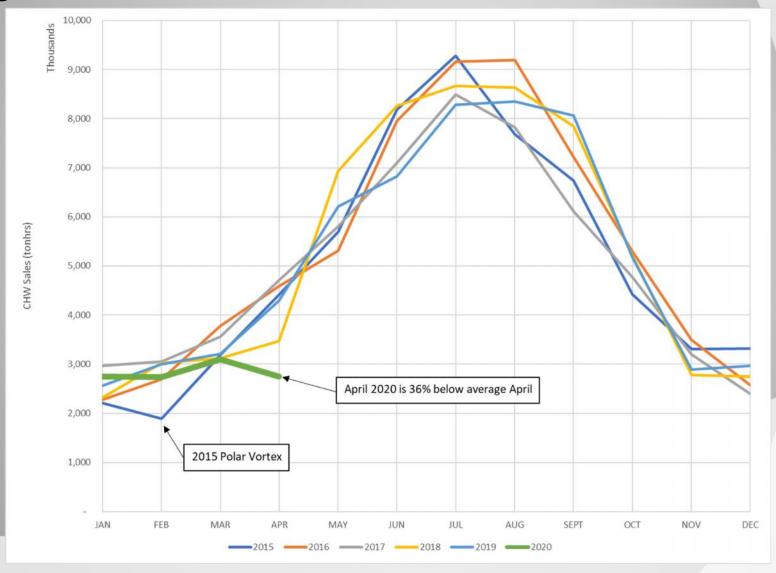
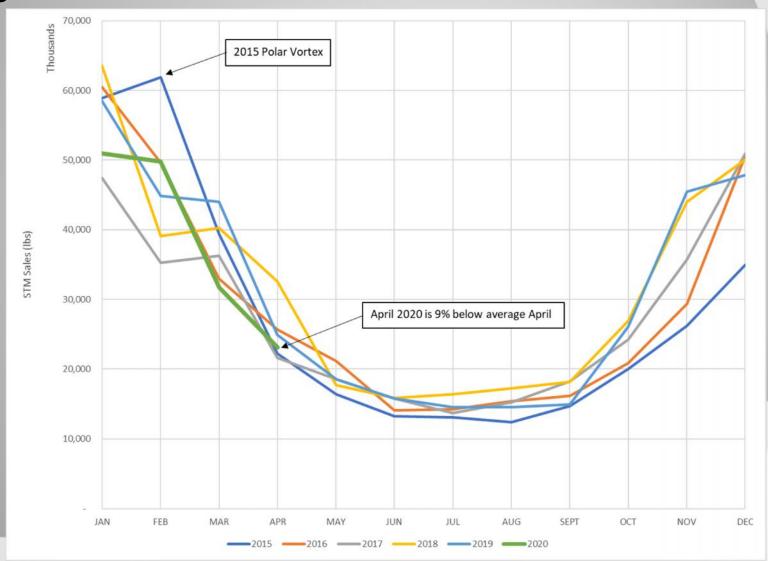




Figure 3B. Historic Steam Sales





4. nCOVID-19 Response

- Due to nCOVID-19 pandemic, DES implemented the following:
 - No late fees until the end of May
 - No customer disconnects for not paying
 - Option to defer two months of invoices through May and repay amounts due over following twelve months
- One customer opted for deferral and withdrew request
- One customer intends to request a deferral
- There are 3 customers currently in arrears
- CNE and TEG following CDC recommendations
- Construction activities reduced, delayed or put on hold
- Limited access to EGF to essential personnel only



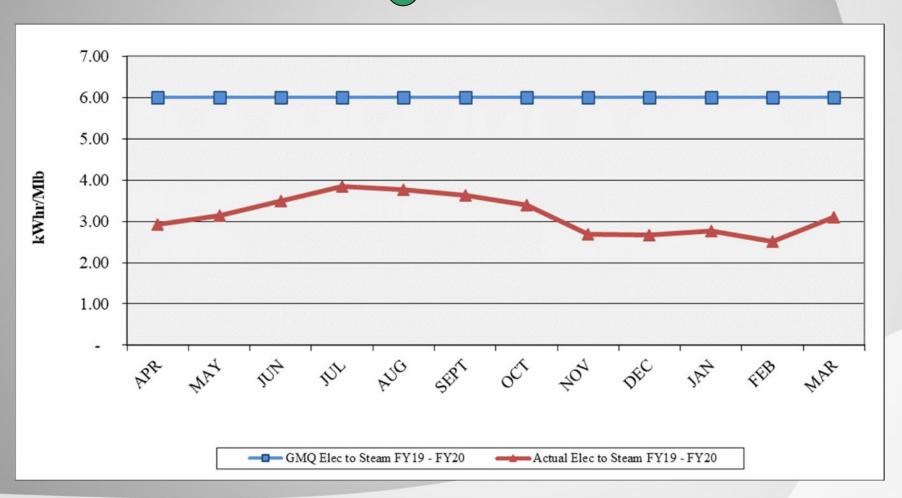
5. Review of DES Contractor Performance

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

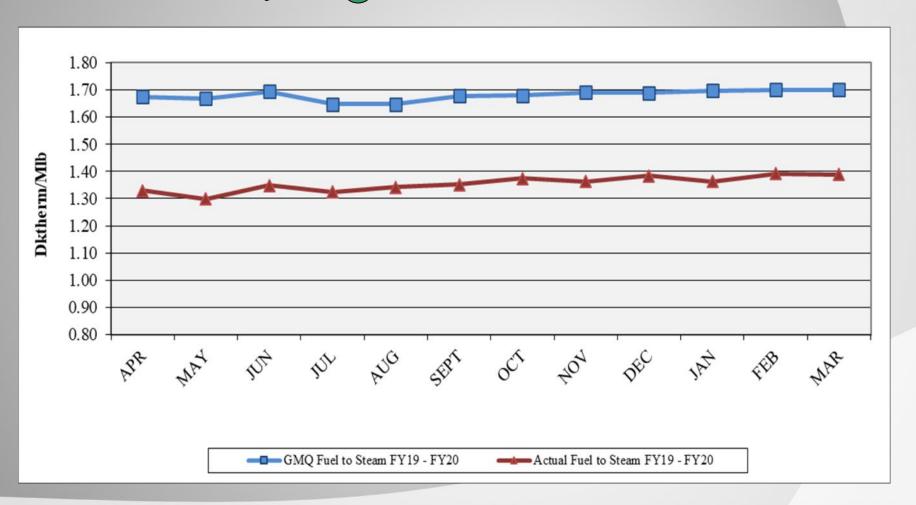


Performance Measurement FY20: Steam Electric Conversion



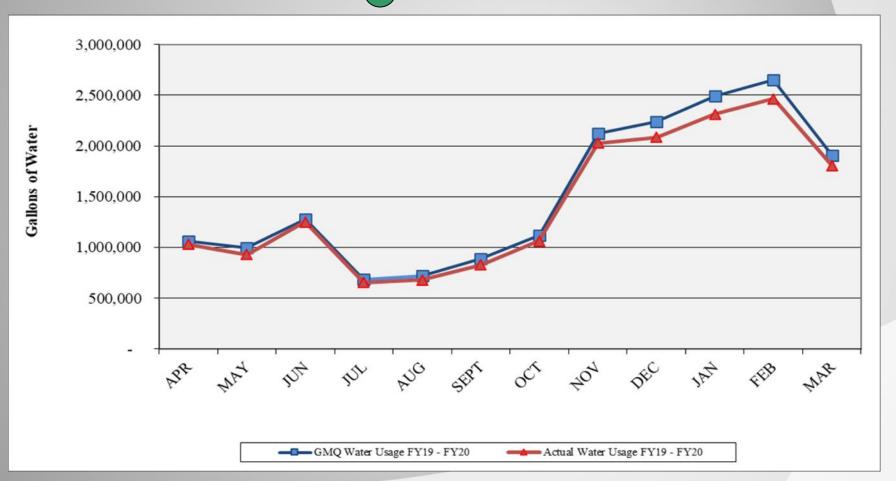


Performance Measurement FY20: Steam Plant Efficiency



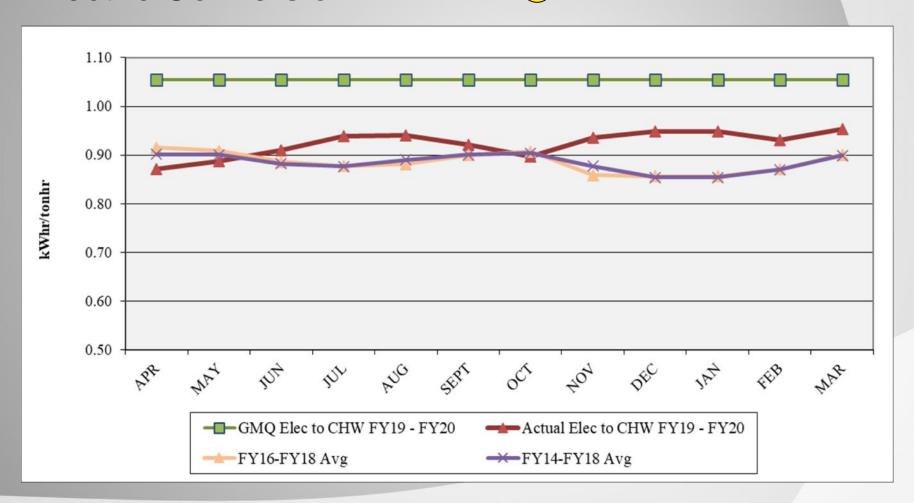


Performance Measurement FY20: Steam Water Conversion



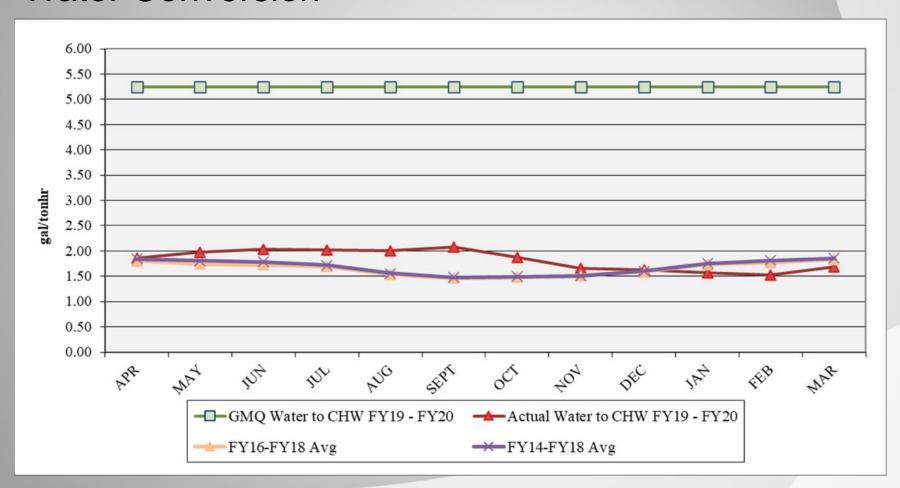


Performance Measurement FY20: CHW Electric Conversion





Performance Measurement FY20: CHW Water Conversion





Water Treatment

Q3FY20 Q2FY20 Q1FY20 Q4FY19

Steam and Condensate









- Corrosion
- ❖ Iron
- Hardness
- Chlorine/Sulfite
- Condensing Water
 - Conductivity
 - Biologicals



- Hardness
- Corrosion
- EGF and Customer Biologicals Good
- Deposits

















EGF Walkthrough

Q3FY20 Q2FY20 Q1FY20 Q4FY19

- ✓ Equipment Maintenance

✓ Operations

✓ Electrical

✓ Housekeeping

✓ Building Structure

Building Exterior and Grounds



EDS Walkthrough

Q3FY20 Q2FY20 Q1FY20 Q4FY19

✓ 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 6: FY20 Gas Spending & Budget Comparison
 - Figure 6: Actual and Projected Gas Cost Comparison



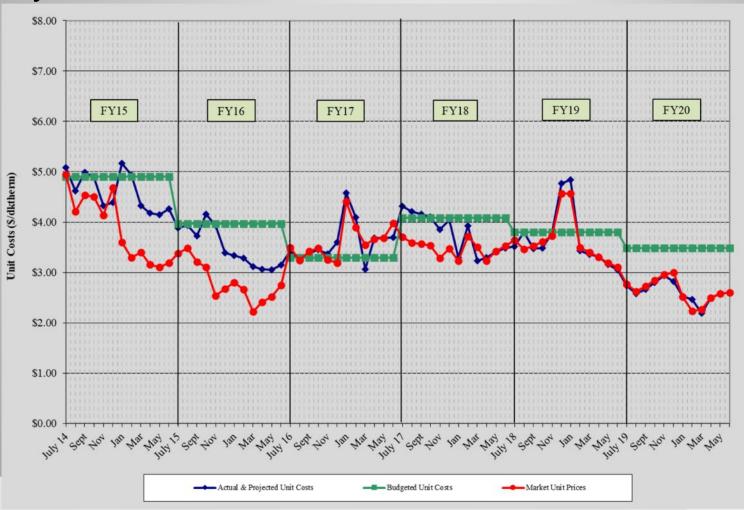
Table 6: FY20 Gas Spending & Budget Comparison

	Actual FY20 To date (Mar 31)	Budget FY20	Percent Difference
Steam Sendout (Mlbs)	342,692	366,874	-6.6%
Fuel Use (Dth) (includes propane)	469,580	533,068	-11.9%
Plant Eff (Dth/Mlb)	1.370	1.453	-5.7%
Total Gas Cost (includes propane)	\$1,239,438	\$1,855,077	-34.8%
Unit Cost of Fuel (\$/Dth)	\$2.639	\$3.480	-24.2%

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					Percent	
		FY20 Budget		Y20 Actual	of	
				to date	FY20 Budget	
FOC's	\$	4,601,600	\$	3,472,879	75.47%	
Pass Throughs						
Administrative Costs	\$	393,600	\$	334,851	85.07%	
Chemicals	\$	253,100	\$	164,341	64.93%	
R&I Fund Transfers	\$	287,600	\$	239,667	83.33%	
Water/Sewer	\$	714,000	\$	543,206	76.08%	
Fuel Base	\$	2,575,700	\$	1,337,145	51.91%	
Fuel Contingency	\$	507,000	\$	-	0.00%	
Electricity	\$	5,977,200	\$	3,623,029	60.61%	
ORF Deposit	\$	-	\$	-		
Debt Service	\$	5,079,200	\$	3,902,178	76.83%	
Total Expenses		20,389,000	\$	13,617,296	66.79%	
Total Revenues		19,070,500	\$	12,340,651	64.71%	
Metro Funding	\$	1,318,500	\$	1,276,645	96.83%	

Actual Costs and Revenues to Date include FY19 True-up Items.



8. FY20 Budget

Item					Percent
	FY19 Budget		FY20 Budget		Change From
					FY19 Budget
FOC's	\$	4,804,000	\$	4,601,600	-4.21%
Pass Throughs					
Administrative Costs	\$	613,300	\$	393,600	-35.82%
Chemicals	\$	245,700	\$	253,100	3.01%
R&I Fund Transfers	\$	281,700	\$	287,600	2.09%
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	\$	20,752,600	\$	20,389,000	-1.75%
Total Revenues	\$	19,152,100	\$	19,070,500	-0.43%
Metro Funding	\$	1,600,500	\$	1,318,500	-17.62%



9. Marketing

Remaining Capacity for Sale (approximate)

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

Potential Customers

- 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
- New Development North of KVB
 - Early stages of communications
 - Potential ~1,100 tons and ~15,000 pph



10. DES RFP Status Update

DES-139

- Metro maintaining control of DES submitted in the Mayor's FY21 Budget to the Council
- If Budget is approved:
 - CNE contract extension (five years)
 - Contract extension results in a savings to the MFA and for DES customers
 - DES Administration oversight transfers to Metro Water Services
 - RFP will be rescinded



11. Capital Expenditure Update

	Spent to End of FY19	FY20 Spending	Balance to Date (04/27/20)
R&I Projects	\$3,675,354	\$199,279	\$104,102
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	\$646,742	\$290,344
Total	\$15,592,151	\$849,430	\$403,070



Active Capital Projects

Note: Due to nCOVID-19 outbreak, CNE elected to delay project construction work (excluding emergency work).

- DES 133.1: Broadway Tunnel Damage Recovery: ongoing
- DES 152: MH A & M Coating Repairs anticipate bidding in 4th Qtr FY20 or 1st Qtr FY21
- DES 153: MH L Repairs anticipate bidding in 4th Qtr FY20 or 1st Qtr FY21
- DES 154: Manhole K Repairs postponed until FY21



Active Capital Projects - continued

- DES 157: MH 9 Repairs construction in-progress; work delayed due to nCOVID-19; anticipated completion during 4th Qtr FY20
- DES 159: MH B2 Repairs construction in-progress; pipe wall penetration leak discovered and needs to be addressed; work delayed due to nCOVID-19; anticipated completion during 4th Qtr FY20
- DES 160: 5th + Broadway Service Connection instruments installed in early April; service available
- DES 161: MH S6 Insulation anticipate bidding during 4th Qtr FY20 or 1st Qtr FY21



Active Capital Projects - continued

- DES 162: Hyatt Centric Service pipe install to be completed during 4th Qtr FY20; instrument install 1st Qtr FY21
- 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 delayed by nCOVID-19; anticipate completion during 4th Qtr FY20



Active Capital Projects - continued

- DES 171: Broadway Tunnel Pipe Support Repairs corroded pipe supports to be repaired/replaced; ladder safety item to be addressed; in design
- DES 172: Viridian Service Line Support Repairs corroded pipe supports to be repaired/replaced; ladder safety item to be addressed; in design
- DES 173: Manhole B3 Repairs corroded pipe supports to be cleaned and coated; concrete repairs to be made; in design
- DES 174: 7th Avenue Tunnel Pipe Support Repairs corroded pipe supports to be repaired/replaced; ladder safety item to be addressed; in design



Capital Projects in Close-out/Closed During 3rd Qtr FY20

None



12. Other Board Member Items

13. Adjourn

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