

DES Advisory Board Meeting Second Quarter FY21 February 18, 2021





- 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. FY21 Budget
- 9. Marketing
- 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			
		Jan 2019 - Dec 2019	Jan 2020 - Dec 2020	% Diff.	Jan 2019 - Dec 2019	Jan 2020 - Dec 2020	% Diff.	
Private	Cost	\$ 1,443,898	\$ 1,207,889	-16.35%	\$ 3,707,481	\$ 3,627,495	-2.16%	
	Usage (lbs or tonhrs)	100,360,047	80,036,285	-20.25%	19,982,794	16,122,808	-19.32%	
State	Cost	\$ 1,744,166	\$ 1,617,519	-7.26%	\$ 3,208,378	\$ 3,201,903	-0.20%	
	Usage (lbs or tonhrs)	110,602,780	101,812,921	-7.95%	12,712,201	12,300,061	-3.24%	
Metro	Cost	\$ 1,846,550	\$ 1,547,223	-16.21%	\$ 4,972,753	\$ 4,285,387	-13.82%	
	Usage (lbs or tonhrs)	158,932,509	135,716,725	-14.61%	29,127,362	20,860,325	-28.38%	
Aggregate	Cost	\$ 5,034,614	\$ 4,372,631	-13.15%	\$11,888,612	\$11,114,785	-6.51%	
	Usage (lbs or tonhrs)	369,895,336	317,565,931	-14.15%	61,822,357	49,283,194	-20.28%	
	Unit Cost	\$ 13.61	\$ 13.77	1.2%	\$ 0.192	\$ 0.226	17.28%	

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



Figure 3A. Historic Chilled Water Sales

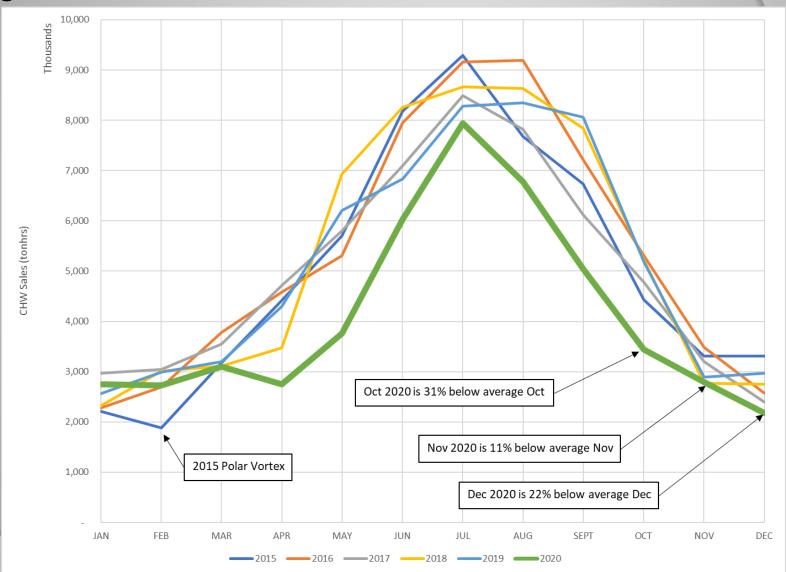
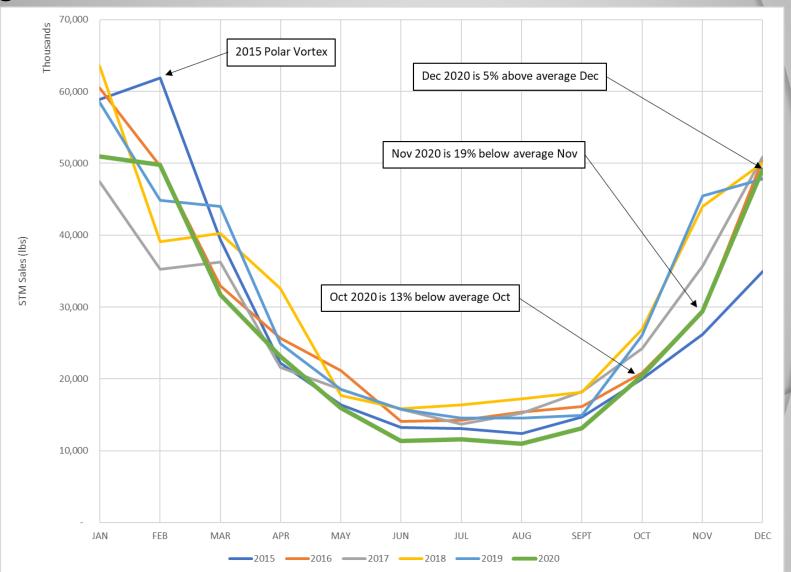




Figure 3B. Historic Steam Sales





4. nCOVID-19 Response

- DES Advisory Board voted in First Quarter meeting to waive late fees and revisit issue this meeting
- Two customers opted for deferral last summer and are making their payments; no new customer deferrals or requests
- There are no customers currently in arrears more than 30 days
- CNE continues to limit access to EGF to essential personnel only
- Tele-meetings and job-site meetings still occurring



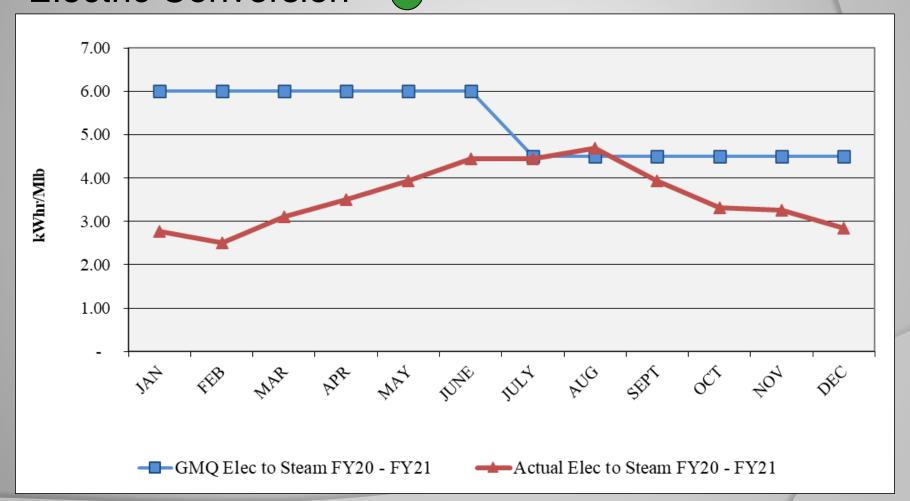
5. Review of DES Contractor Performance

Contractor (CNE) has met their contractual obligations for FY21 to date except for exceeding some of the new performance guarantees.

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

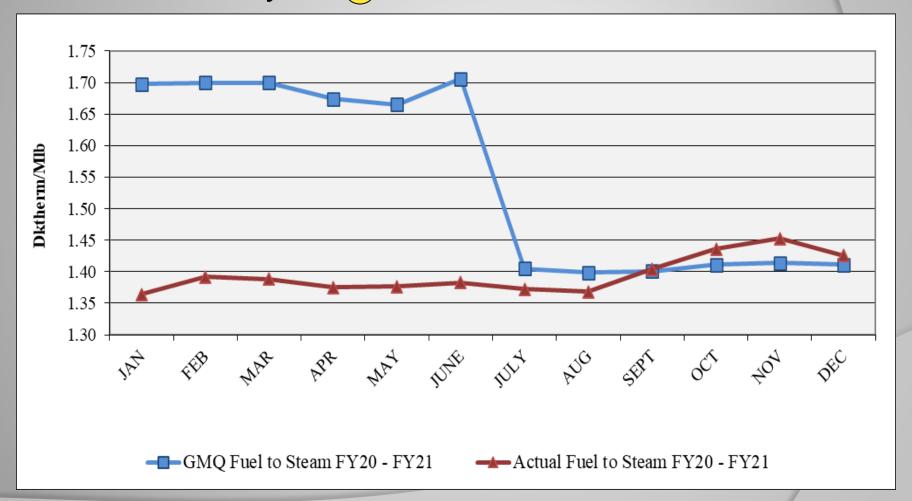


Performance Measurement FY21: Steam Electric Conversion



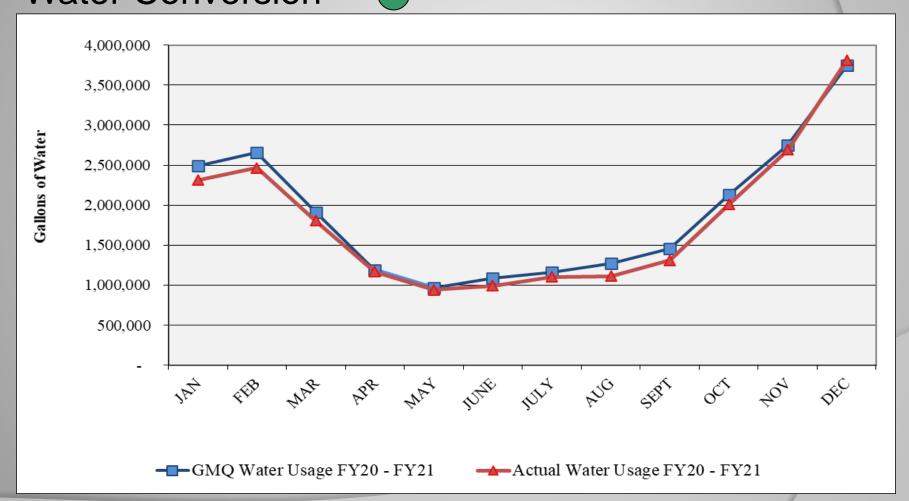


Performance Measurement FY21: Steam Plant Efficiency



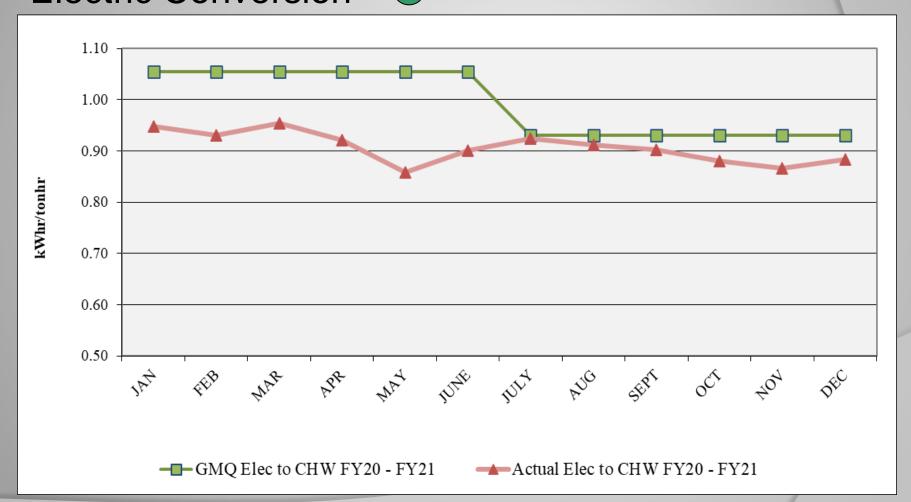


Performance Measurement FY21: Steam Water Conversion



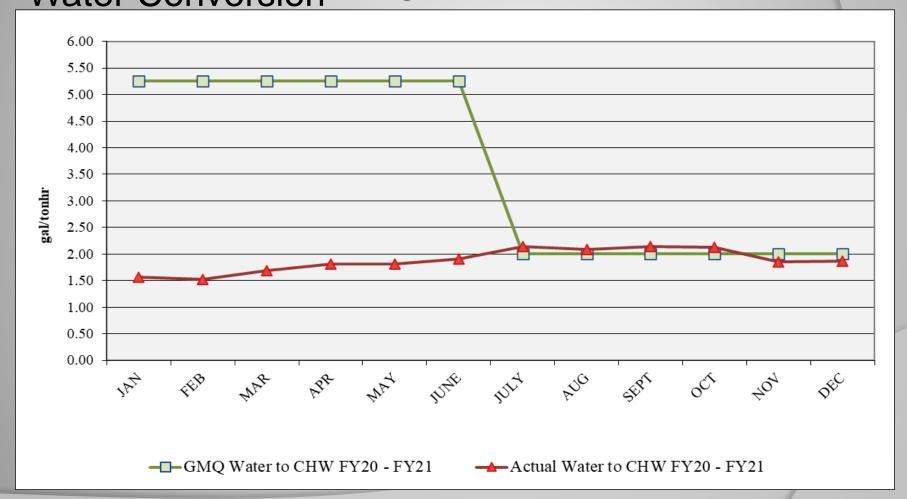


Performance Measurement FY21: CHW Electric Conversion





Performance Measurement FY21: CHW Water Conversion





Water Treatment

Q2FY21 Q1FY21 Q4FY20 Q3FY20

Steam and Condensate









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

















EGF Walkthrough

Q2FY21 Q1FY21 Q4FY20 Q3FY20

- ✓ Equipment Maintenance
- +

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































EDS Walkthrough

Q2FY21 Q1FY21 Q4FY20 Q3FY20

✓ Vault/Tunnel Housekeeping

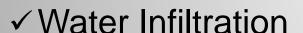


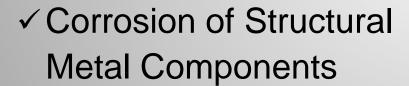






- ✓ Maintenance Items
 - ✓ Insulation Repair/ Replacement





✓ Safety Items



































6. Natural Gas Purchasing

- Natural Gas Purchasing Review
 - Table 6: FY21 Gas Spending & Budget Comparison
 - Figure 6: Actual and Projected Gas Cost Comparison



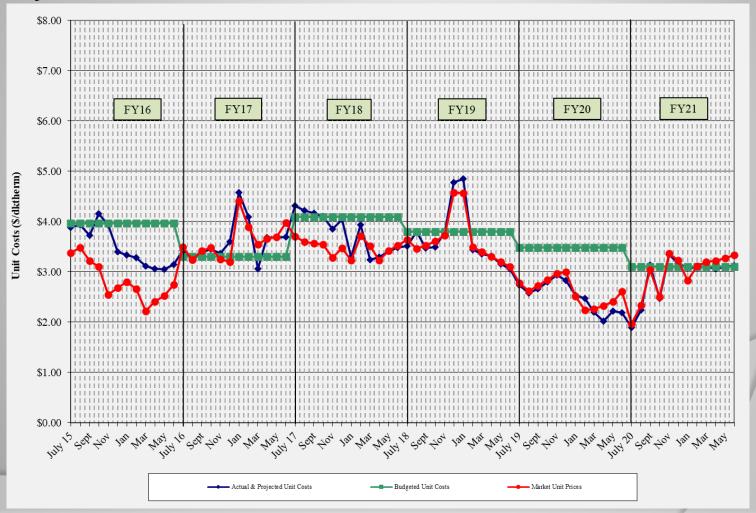
Table 6: FY21 Gas Spending & Budget Comparison

	Actual FY21 To Dec 31	Budget FY21	Percent Difference
Steam Sendout (Mlbs)	188,136	183,845	2.3%
Fuel Use (Dth) (includes propane)	266,266	266,943	-2.5%
Plant Eff (Dth/Mlb)	1.415	1.452	-2.5%
Total Gas Cost (includes propane)	\$690,900	\$792,821	-12.9%
Unit Cost of Fuel (\$/Dth)	\$2.595	\$2.970	-12.6%

Excludes consultant fees and FEA and budget contingency; Includes transportation and actual propane costs and usages except unused pre-purchased propane



Figure 6. Actual and Projected Gas Cost Comparison History





7. FY21 Costs to Date

Item					Percent
		FY21 Budget		Y21 Actual	of
				to date	FY21 Budget
FOC's	\$	3,776,800	\$	1,888,405	50.00%
Pass Throughs					
Administrative Costs	\$	393,900	\$	167,819	42.60%
Chemicals	\$	260,700	\$	140,141	53.76%
R&I Fund Transfers	\$	291,900	\$	145,950	50.00%
Water/Sewer	\$	624,000	\$	504,703	80.88%
Fuel Base	\$	2,001,900	\$	790,306	39.48%
Fuel Contingency	\$	431,900	\$	-	0.00%
Electricity	\$	6,130,100	\$	2,198,940	35.87%
ORF Deposit	\$	-	\$	-	
Debt Service	\$	5,098,000	\$	2,665,609	52.29%
Total Expenses		19,009,200	\$	8,501,873	44.73%
_					
Total Revenues		18,378,500	\$	8,000,704	43.53%
Metro Funding	\$	630,700	\$	315,350	50.00%

Actual Costs and Revenues to Date include FY20 True-up Items and exclude 3rd Qtr debt service.



8. FY21 Budget

Item		FY20 Budget			Percent	
				Y21 Budget	Change From	
					FY20 Budget	
FOC's	\$	4,601,600	\$	3,776,800	-17.92%	
Pass Throughs						
Administrative Costs	\$	393,600	\$	393,900	0.08%	
Chemicals	\$	253,100	\$	260,700	3.00%	
R&I Fund Transfers	\$	287,600	\$	291,900	1.50%	
Water/Sewer	\$	714,000	\$	624,000	-12.61%	
Fuel Base	\$	2,575,700	\$	2,001,900	-22.28%	
Fuel Contingency	\$	507,000	\$	431,900	-14.81%	
Electricity	\$	5,977,200	\$	6,130,100	2.56%	
ORF Deposit	\$	_	\$	-		
Debt Service	\$	5,079,200	\$	5,098,000	0.37%	
Total Expenses	\$	20,389,000	\$	19,009,200	-6.77%	
Total Revenues	\$	19,070,500	\$	18,378,500	-3.63%	
Metro Funding	\$	1,318,500	\$	630,700	-52.17%	



9. Marketing

Remaining Capacity for Sale (approximate)

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

Potential Customers

- Service to Lot K (Peabody Union)
 - Site directly to the east of EGF
 - 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
 - Potential 2,000 to 3,000 tons
- New Development North of KVB
 - Potential ~1,100 tons and ~15,000 pph



Marketing (con't)

- Union Street Hotel
 - Ongoing renovation of existing building on Union St
 - Developer waiting on financing approval
 - Potential 100 tons and no steam



10. Capital Expenditure Update

	Spent to End of FY20	FY21 Spending	Balance to Date (01/21/21)
R&I Projects	\$3,887,279	\$129,838	\$179,826
49109-2010 Bond	\$2,600,602	\$5,314	\$0
49107-DES Infrastructure Fund	\$8,499,961	\$39	\$0
49116-DES Infrastructure Fund	\$1,568,389	\$514,766	\$716,171
Total	\$16,556,231	\$649,954	\$895,997



Active Capital Projects – General & Marketing

- DES 133.1: Broadway Tunnel Damage Recovery ongoing
- DES 139: Options Review ongoing
- DES 163: MDHA Parcel K Service development on hold
- DES 168: DES Service to 1st and KVB Hotels development on hold



Active Capital Projects – Corrosion Repair/Prevention

- DES 153: MH L Repairs anticipate completion 3rd Qtr FY21
- DES 171: Broadway Tunnel Pipe Support Repairs construction began 2nd Qtr; anticipate completion 4th Qtr FY21
- DES 172: Viridian Service Line Support Repairs construction began 2nd Qtr; anticipate completion 4th Qtr FY21
- DES 173: Manhole B3 Repairs construction/completion 2nd Qtr FY21; awaiting final punch list review
- DES 174: 7th Avenue Tunnel Pipe Support Repairs construction began 2nd Qtr; anticipate completion 4th Qtr FY21



Active Capital Projects – Piping Repairs/Modifications

- DES 175: Manhole 4 Condensate Return elim. Trap station; construction during 2nd Qtr FY21; anticipate completion 3rd Qtr FY21
- DES 181: CHW and CND Leak Repairs on 3rd Ave N construction completed on both leaks during 2nd Qtr FY21; awaiting cost substantiation
- DES 182: MH B10 Exp Jt Replacement steam exp. jt. bound & requires replacement along w/anchor repairs; requires isolation of MCC; anticipate construction late 3rd Qtr/early 4th Qtr FY21
- DES 183: Hermitage Hotel Svc Line Modifications Hotel installing grease trap which may req. modifications to steam, condensate & chilled water svc piping; awaiting plan from hotel contractor



Capital Projects – Awaiting Metro Approval

- DES 152: MH A & M Coating Repairs (MH B added to scope) corrosion repairs
- DES 154: MH K Repairs corrosion/concrete repairs
- DES 161: MH S6 Insulation combining w/MH N1 & N2
- DES 177: MH B1 Ladder & Platform safety; sump pump MH; needs maintenance platform & new ladder; design complete
- DES 178: MH 5 Repairs corrosion/concrete/insulation repairs
- DES 179: MH 11 Repairs corrosion/concrete/insulation repairs
- DES 180: State Tunnel Pipe Support Repair corrosion/concrete repairs



Capital Projects - Closed/In Close-out

DES 157: MH 9 Repairs

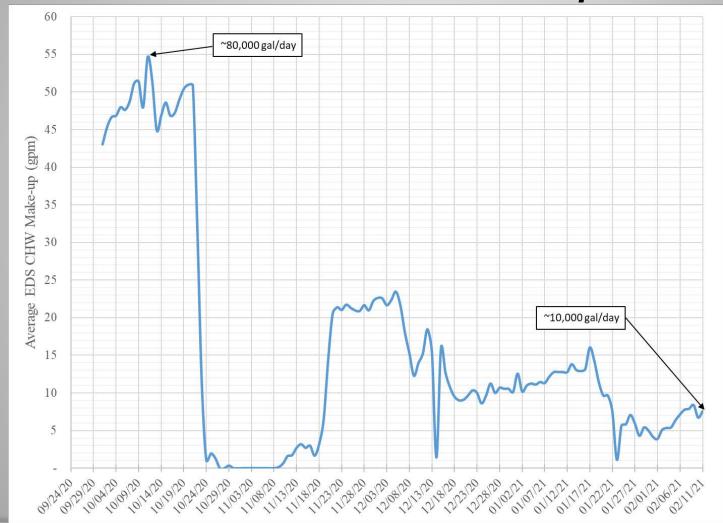
DES 159: MH B2 Repairs

DES 169: MH 20 Repairs

DES 176: MH 9 Condensate Leak



Chilled Water EDS Make-up





11. Other Board Member Items

12. Adjourn

- > Advisory Board Meeting Schedule
- ➤ FY21 3rd Quarter Meeting May 20, 2021
- > FY21 4th Quarter Meeting August 19, 2021
- FY22 1st Quarter Meeting November 18, 2021
- > FY22 2nd Quarter Meeting February 17, 2022