Exhibit to Agenda Item #3

a. Review of activities and performance for CVFA during the 2020 calendar year.
b. Review of activities and performance for SCA during the 2020 calendar year.
c. Review of activities and performance for SFA during the 2020 calendar year.
d. Review of activities and performance for SPA during the 2020 calendar year.

Joint Annual Meetings of the Joint Powers Agencies (JPAs)
Thursday, April 15, 2021, immediately following the SMUD Board of Directors Meeting scheduled to begin at 5:30 p.m.
Virtual Meeting (online)
Annual SMUD Thermal Load (GWh)

Water Year: BN = Below Normal, W = Wet

Joint Annual Meetings of the Joint Powers Agencies (JPAs)
Effective COVID-19 Protocols

- No impact to operation
- No on-site transmission
Central Valley Financing Authority (CVFA) Cogen I (Carson Ice Cogen)
CVFA Cogen I
(Carson Ice Cogen)

- 99.9 MW Net Dependable Capacity (NDC):
  - 57.4 MW Cogeneration
  - 42.5 MW Simple Cycle Peaking Unit
- General Electric (GE) Aero Derivative Gas Turbines (LM6000)
- Operated by EthosEnergy Power Plant Services
- Commodities Agreement (expires in 2025)
  - SMUD/CVFA sells steam and electricity to Regional San (SRWTP – Sacramento Regional Wastewater Treatment Plant)
  - Regional San sells digester gas to CVFA
  - CVFA cleans and sells the digester gas to SMUD
  - SMUD transfers the digester gas to Cosumnes Power Plant (CPP) for generation
## CVFA Cogen I
(Carson Ice Cogen)

### Operational Performance Data: 2019 vs. 2020

<table>
<thead>
<tr>
<th>Metric</th>
<th>2019</th>
<th>2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equivalent Forced Outage Factor (EFOF)</td>
<td>0.081%</td>
<td>0.16%</td>
</tr>
<tr>
<td>IEEE* Equivalent Availability (online or ready to run)</td>
<td>92.04%</td>
<td>94.01%</td>
</tr>
<tr>
<td>Combined Cycle Capacity Factor (based on 57.4 MW)</td>
<td>58.97%</td>
<td>38.47%</td>
</tr>
<tr>
<td>Peaker Capacity Factor (based on 42.5 MW)</td>
<td>1.64%</td>
<td>1.84%</td>
</tr>
<tr>
<td>Generation Compared to Budget</td>
<td>105.70%</td>
<td>201.60%</td>
</tr>
</tbody>
</table>

*Institute of Electrical and Electronics Engineers

- There were no lost time or California Occupational Safety and Health Administration (OSHA)-recordable injuries at the Carson Cogeneration Project during 2020.
- All permit and regulatory requirements were satisfactorily met during 2020.
- The CVFA Peaker starting reliability was 97.8% in 2020 (45 successful starts).
Sacramento Cogeneration Authority (SCA) Cogen II (Procter & Gamble Cogen)
SCA Cogen II
(Procter & Gamble Cogen)

• 184 MW Total Capacity (164.3MW original Net Dependable Capacity):
  o 134MW Cogeneration
  o 50MW Simple Cycle Peaking Unit

• General Electric (GE) Aero Derivative Gas Turbines (LM6000)

• Operated by EthosEnergy Power Plant Services

• Steam Sales Agreement (Extended through 2028):
  o Procter & Gamble Oleo-chemicals
  o Factory converts palm kernel and coconut oils into alcohol esters
  o Agreement includes an off ramp with 3-year notice
**Operational Performance Data:**

<table>
<thead>
<tr>
<th></th>
<th>2019</th>
<th>2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equivalent Forced Outage Factor (EFOF)</td>
<td>0.06%</td>
<td>0.14%</td>
</tr>
<tr>
<td>IEEE* Equivalent Availability (online or ready to run)</td>
<td>95.53%</td>
<td>93.21%</td>
</tr>
<tr>
<td>Combined Cycle Capacity Factor (based on 120.3 MW)</td>
<td>61.20%</td>
<td>64.32%</td>
</tr>
<tr>
<td>Peaker Capacity Factor (based on 44 MW)</td>
<td>3.90%</td>
<td>4.02%</td>
</tr>
<tr>
<td>Generation Compared to Budget</td>
<td>90.80%</td>
<td>125.90%</td>
</tr>
</tbody>
</table>

*Institute of Electrical and Electronics Engineers

- There were no lost time or California Occupational Safety and Health Administration (OSHA)-recordable injuries at the SCA Cogeneration Project during 2020.
- All permit and regulatory requirements were satisfactorily met during 2020.
- The SCA Peaker starting reliability was 100% in 2020 (77 successful starts).
Sacramento Power Authority (SPA) Cogen III & McClellan Gas Turbine
SPA Cogen III & McClellan Gas Turbine

• SPA Cogen III:
  o 160 MW Cogen facility
  o Siemens industrial frame gas turbine (V84.2)
  o No Current Steam Host

• McClellan Gas Turbine:
  o 72MW Simple Cycle Peaking Unit
  o General Electric (GE) industrial frame gas turbine (Frame 7E)

• Operated by EthosEnergy Power Plant Services
### SPA Cogen III & McClellan Gas Turbine

**Operational Performance Data:**

<table>
<thead>
<tr>
<th>Metric</th>
<th>2019</th>
<th>2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>EFOF</td>
<td>0.16%</td>
<td>0.08%</td>
</tr>
<tr>
<td>IEEE* Equivalent Availability</td>
<td>81.66%</td>
<td>96.23%</td>
</tr>
<tr>
<td>Overall Capacity Factor</td>
<td>43.70%</td>
<td>38.25%</td>
</tr>
<tr>
<td>Generation Compared to Budget</td>
<td>67.80%</td>
<td>173.30%</td>
</tr>
</tbody>
</table>

*IEEE: Institute of Electrical and Electronics Engineers

- There were no lost time or California Occupational Safety and Health Administration (OSHA)-recordable injuries at SPA and McClellan during 2020.
- All permit and regulatory requirements were satisfactorily met during 2020.
- Completed construction of the recycled water infrastructure and began receiving recycled water in July, delivery was terminated in October due to the water quality from Regional San.
- The McClellan Peaker starting reliability was 100% in 2020.
SFA Cosumnes Power Plant (CPP)

- 601 MW Combined Cycle 2x1 Power Plant
- General Electric (GE) Frame 7FA Gas Turbines (7241FA)
- Operated by EthosEnergy Power Plant Services
- CPP burns SMUD’s renewable biogas
  - Digester gas from Regional San
  - Contracted Biogas from various sources
- Cleanest, most efficient use of renewable biogas
SFA Cosumnes Power Plant (CPP)

Operational Performance Data: 2019 2020

Equivalent Forced Outage Factor (EFOF) 0.37% 0.30%
IEEE* Equivalent Availability (online or ready to run) 70.91% 89.40%
Overall Capacity Factor (based on 601 MW) 59.60% 76.90%
Generation Compared to Budget 81.10% 92.50%

*Institute of Electrical and Electronics Engineers

- There were no lost time or California Occupational Safety and Health Administration (OSHA)-recordable injuries at the Cosumnes Power Plant during 2020.
- All permit and regulatory requirements were satisfactorily met during 2020.
- Completed the Zero Liquid Discharge Replacement Project.
- Completed a Distributed Control System Upgrade.