

Central Generation Engine Overhaul

Presenter:

*Robert Thompson,
Assistant General
Manager*

*Steering Committee
and Board*

March 24, 2021

The logo for Orange County Sanitation District (OC SAN) is located in the bottom right corner. It features the letters "OC" in white, a stylized blue and green water drop icon, and the letters "SAN" in white. Below this, the full name "ORANGE COUNTY SANITATION DISTRICT" is written in smaller white capital letters. The logo is set against a dark blue rectangular background.

OC SAN
ORANGE COUNTY SANITATION DISTRICT

Central Generation Engine Overhaul

- The Central Generation Plants Low Speed Engines recommended for a complete overhaul after 125,000 hours of runtime. (Current engine had over 140,000 hours.)
- OC San contracted with a vendor to perform an overhaul on two engines.
- The vendor was not able to complete the first overhaul (two failures).



Failure of the Previous Overhaul





Machining/ Lubrication Failures

UPS Midstream Services

- Engine failures in October and November
- OC San has terminated the contract with UPS Midstream Service.
- OC San is pursuing claims against UPS Midstream Services and our insurance carrier.

- Engine No. 1 at Plant No. 1 has been unavailable for more than a year.
- South Coast Air Quality Management District issued a permit variance for engine testing with tight milestone dates.
- No standby engine is currently available at Plant No. 1.

Urgency to Repair Engine

Staff Recommendation

- Award a Sole Source Service Contract to the company providing Original Equipment Manufacturer parts and services for Engine No. 1 at Plant No.1.
- Staff is pursuing an engineering study regarding the on-going viability of the Copper Bessemer LSVB engines.