

Equipment: 36" Refiner
PM Number: (N/A)
Trade(s): Technician
Skills Required: Proficiency with infrared gun
Permit Required: No
Estimated Time Required: 45 minutes

Equipment #: 3002R-01 and 3002R-02
Frequency: Monthly
of Technicians: 1
LOTO Required: No



Safety: Remember that you are inspecting equipment in production. Do not put yourself in harm's way to perform any of the following checks. If you feel unsafe performing a specific task, stop immediately and talk to the supervisor. Under no circumstances should you defeat a safety system or protective device to perform these checks!

Required PPE: Standard PPE worn in the facility

HECP Reference: N/A

SSP Reference: N/A

Tools/Monitoring Equipment Required: Stethoscope, Handheld Infrared Gun

Materials Required: Maxi-Lube Red Grease

Reference Materials Required: None

QA/QC Requirements: None

PM/PdM Number: 10000

PM/PdM Instructions:

- Listen for any abnormal noises that might indicate single phasing or a mechanical problem.
- Listen to bearings using a stethoscope to check for excessive or abnormal noise.
- Check the motor case's temperature using an infrared gun. It should be below 130° F.
- Examine bearings using an infrared gun. They should be operating at a temperature below 140° F.
- Check the motor amperage. It should be between 200 and 250 amps.
- Check for dripping water or oil.
- Check for abnormal vibration or other movement that might be caused by loose mounting bolts.
- Make sure that motor match marks are intact.
- Make sure that the air intake is clean and unobstructed.
- If there are problems with instrumentation, electronics, bulbs, etc., discuss them with the operator.
- Lubricate the bearings with Maxi-Lube Red grease.
- Examine the coupling area visually for excessive vibration, movement, and/or red dust.
- From a safe distance, listen for excess or abnormal noise.
- Verify that a small amount of water is trickling out of the packing.
- Check the air pressure on the pneumatic instrumentation and air motor. It should be at least 100 PSIG.
- Examine the coupling visually for movement or slackness.
- Check the power distribution diagnostics for faults.
- Inspect the water filter drains for water.
- Check the inlet and outlet pressures. The inlet pressure should be 21 PSIG. The outlet pressure should be about 14 PSI above that (i.e., about 35 PSIG). The difference between the inlet and outlet pressures should never be less than 5 PSI.
- Once per year, do a thermography analysis of the 2300V switchgear using an infrared camera.