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CENTRIFUGAL CHILLER MAINTENANCE CHECKLIST

Upon Arrival

- Report to representative
- Review chiller logs & discuss operational problems & trends
- Record any abnormal conditions

Lubrication system

- Megger oil pump motor & record readings
- Take & record oil pump amperage & voltage readings
- Check oil cooling system operation
- Tighten terminal connections on oil pump motor
- Take sample of old oil & send out for analysis
- Get alternate price to change oil per unit including cost to dispose of old oil

Safeties & controls

- Clean control panel
- Inspect wiring & terminals for signs of overheating
- Check guide vane linkages for tightness & wear
- Test DP flow switch cutouts (chilled & condenser water)
- Test operation of anti-recycle timers
- Check sequence of operation on all control relays
- Inspect all solenoid coils & magnets
- Check accuracy of all control gauges; recalibrate as needed
- Verify accuracy of all thermometers
- Test high condenser pressure safeties
- Test low evaporator temperature safeties
- Test low oil pressure safeties
- Test high motor temperature safeties
- Check the operation of all pump auxillary contacts
- Test operation of oil temperature & pressure controls

Motor & Starter

- Clean starter cabinet
- Check & record voltages on each leg
- Check & recondition contact tips as needed
- Check contact spring pressure
- Inspect leads
- Inspect arc chutes & bearings
- Check coils for mechanical defects & signs of overheating
- Check magnet faces for misalignment & bonding
- Check oil level of dashpots; add oil if needed
- Inspect overload relay heaters
- Tighten all connections

Compressors & vessels

- Remove condenser heads
- Brush condenser tubes with nylon brushes
- Replace heads & provide new gaskets if needed
- Evacuate refrigerant & weigh
- Pressurize units & leak check at 10 PSIG
- Change filter driers
- Perform Eddy current test on all condensers

Purge units

- Record elapsed run times & start counts
- Drain, clean and inspect purge drum
- Clean sight glass
- Lubricate purge motor
- Change filter drier
- Check operation of purge timer
- Megger compressor motor
- Run purge & test operation