

2TK/K-30 Commissioning LHC II

Scope

Commission for putting back in service

Hazards

If 2K-20 is to remain under pressure the oil drains on 2K-30 must be blinded before 2K-30 will depressure.

Safety Equipment

Standard

Tools

Standard

Past Incident History

Check for oil in exchangers drums and case.

Bleed liquid from low points while there is still plenty of pressure on the system.

Operating Parameters

The variables for operating limits, consequences and responses are listed in the "Normal Operations Procedure". The file is located on the LHC II operating discipline computer under the critical procedures directory.

2TK-30 Commissioning Procedure (6 hours)

____ Once all work is completed pull and clear all tags

____ Warm-up all steam lines and also the turbine case.

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LHC II Procedure

- _____ Inspect oil system and then start it up, checking for leaks and proper pressures, providing 2TK-K-20 is ready.
- _____ Put the surface condenser in service, including the hog, open external seal steam to 2TK-30, put gland condenser in service, and check hot well pumps. Also put inner/after coolers in service.
- _____ Once a vacuum is established begin slow rolling 2TK-30 at 500 rpm for two to four hours or until it is determined there is no bow in the shaft.

Note: When bringing 2TK-30 on-line 2TP-25 should be on line with 2P-25B on auto S/B.

2K-30 Commissioning Procedure (12-24 hours)

- _____ Once all work is complete on 2K-30 the red tags pertaining to 2K-30 (54-79) can now be pulled.
- _____ Pad and depad with N_2 three times to 100 lb. Double check all case drains for liquid. Also make sure all valves in the system are open during pad and depad with N_2 and C_2H_4 into 2D-31 and pad up the whole system making sure all valves are open incorporating all equipment and lines. Pad and depad three times to 100 lb taking vents at the extremities to insure a sweeping motion.
- _____ After the last pad with gas double check all case drains for liquid and also run an inert sample. N_2 should be less than 2%.
- _____ Then set up all valves in the system to their proper position including opening the false load valves. Remove all tubing and plug all valves.
- _____ Next establish a 50% level in both 2D-31 and 2D-32 using the C_2H_4 from LHC III. If LHC III is down we will have to run a make-up line from distribution to 2E-231. Once liquid levels are established 30 can be brought up if 20 is running.

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