AMPCO Interrogatory #73

Interrogatory

Reference: Ex D2 T2 S2 P5

OPG began the third segment ahead of the High Confidence Schedule by approximately 28 days. The third segment involves the installation and reassembly of reactor components, and includes the installation of feeder pipes. This segment was completed in 105.9 more days than the planned duration. Thus, at completion of this segment, the U2 refurbishment outage was 78 days behind the High Confidence Schedule. Challenges experienced with the procurement and installation of feeder pipes affected the refurbishment schedule.

Delays were experienced in the receipt of the new feeders due to the required qualification of fabrication welding specifications, inspection of fabrication, and welding, fabrication and delivery issues. Quality non-conformances, found upon inspection, needed to be resolved. Higher than expected weld failure rates were experienced in field welds. Congestion was experienced on the reactor face, particularly as regards to scaffolding

OPG provides a summary of Feeder Lessons Learned and Actions at Ex D2 T2 S3 Attachment #6.

a) Please provide the root cause of the 78 day delay.

b) Please expand on the quality non-conformances that needed to be resolved.

c) Did OPG sufficiently leverage the reactor mock-up facility prior to commencing the installation of feeder pipes? If yes, provide details. If not, why not?

Response

a) See Ex. L-D2-02-Staff-131, part a) for the key contributing factors to the challenges experienced on the feeder series. See also Ex. L-D2-02-EP-027 for further details on the contributing factors to the delays and productivity challenges experienced.

b) See Ex. L-D2-02-EP-027 regarding fabrication issues related to Inconel 690 components and also issues related to welding machines introducing foreign material into the feeders.

c) See Ex. L-D2-02-Staff 131, part c).