Weekly Reporting SNS PPU

WBS P.02.03 Cryomodule Integration (JLab Scope)

July 28, 2023

**Issues:** None.

**Accomplishments this week:**

Management:

* Prepared and presented Director’s Review slides to Lab Director on 7/28.
* PPU activities are continuing with cryomodule assembly.
* Off-site work efforts continue in the procurement area on end cans.

Engineering & Design:

* Sustaining engineering activities are continuing in order to revise drawing packages based on feedback during the procurement phase with a focus on end can drawing packages.

Procurement:

* JLab will visited the end can vendor on August 9.
* Supply End Cans (SECs):

|  |  |  |
| --- | --- | --- |
| S/N | Status | Estimated Delivery Date |
| 01 | Installed on CM-03 |  |
| 02 | Installed on CM-04 |  |
| 03 | Installed on CM-01 |  |
| 04 | Installed on CM-05 |  |
| 05 | Installed onto CM-06. JLab shipped it to ORNL without cold test at JLab. |  |
| 06 | Delivered to JLab. Welded onto PPU-07. The support block is machined, bridge tube bellows is largely skewed due to dimensional deviations on the SEC 06. |  |
| 07 | Installed on CM-02 |  |
| 08 | SEC 08 was delivered to JLab on July 20 after investigations by ORNL; currently under receiving inspection. |  |

* Return End Cans (RECs):

|  |  |  |
| --- | --- | --- |
| S/N | Status | Estimated Delivery Date |
| 01 | Installed on CM-03 |  |
| 02 | Installed on CM-01 |  |
| 03 | Installed on CM-05 |  |
| 04 | Installed on CM-02 |  |
| 05 | Installed on CM-06 |  |
| 06 | Installed on CM-04  |  |
| 07 | Delivered to JLab on 5/8. Uncrated on 5/10. Receiving inspection work has started and still ongoing. REC 7 is welded to PPU-07 cryomodule after a repair on the bridge tube section. There is a NCR on two Cernox sensors having abnormal electrical resistances that would need to be evaluated during cryomodule cold test. |  |
| 08 | AI witnessed ASME pressure test is scheduled to happen on 8/11. JLAB will not witness the test. Ship date 8/21 (JLAB estimate).  | Aug 21 |

Production:

* Cryomodule Status:
* CM-07: Final alignment completed. Closing up supply end thru ports. Installing ion pump on REC. Developing adapters for thermal straps to interface to warm/cold beampipes.
* CM-08: Outer magnetic shielding installed.

Project Management:

* Sent Accrual Data to ORNL
* Provided Director’s Review Data
* Updated CAM Notebook

Quality Assurance:

* Continue to monitor quality data for possible trends
* Reviewed Open NCRs
* Reviewed Open Travelers
* Reviewed Open CAPAs

Project Photos: None.