APA Issues List:

Results from Last Week (July 31st, 2023):

* Approval of updated frame drawings (including decisions about width of nut plates, number of nut plates, and size of holes used to attach frame to winder)
* Approval of updated conduit drawings
* Updated drawings in process of being checked-in and signed-off on

This week (August 7th, 2023)

* Critical issue is decision on which solder/flux combination to use moving forward
* Introduction to topic at today’s meeting from Aseet
* Hope to receive results from first wire-pull tests this week
* A consensus is needed on path forward to resume winding operations

Moving Forward

* Daresbury factory team has updated 21 processes to reflect current fabrication methods (a few more to follow)
* Need to confirm that any changes with respect to approved processes in EDMS will not impact APA performance
* Asking Ed and Alberto to review the updated processes (with help from Daresbury team) and document changes with respect to approved processes
* Use these meetings to discuss proposed changes and recommend approval of updated procedures if appropriate
* Assuming it will take multiple weeks to work through ~ 25 updated processes

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Needed for Resuming Winding Operations at Daresbury:

1. Safety Approvals
2. Acquisition and implementation of air handling equipment
3. Finalization of Survey Plan for Frames
4. Check for and repair issues on existing frames in factory
5. Re-survey existing frames
6. Assess soldered wire samples at CERN
7. Choose solder/flux to be used moving forward
8. Approve updated soldering procedures
9. Clean and bake existing wrap boards at factory

Other technical issues:

* Agreement on changes (if any) needed for existing frames
* Approval of updated conduit cleaning and QC procedures
* Approval of non-conformance to allow for less than perfect contact between frame center tube support and bottom tube (requires update to frame drawings?)
* Approval of environmental requirements for APA storage and transport
* Approval on plan for sealing of individual APAs
* Approval on plan for sealing of ASFs
* Approve changes to design of APA protection panels
* Approve changes to design of aluminum covers for ASF
* Approval of plan for avoiding rusting on protection panel fasteners
* Approval of updates to procedures for making wire tension measurements during construction (for example, use of DWA and treatment of short wires)
* Approval of procedures for cleaning and baking of edge boards (are we just going back to the released procedure?)
* Approval of procedures for automated laser tension measurements (assuming these are realized)
* Approval of new alignment jig design for installing combs (would also presumably require updates to the procedures
* Approve updates to winder head design
* Approve procedures for winder head maintenance
* Approval of APA Interface Documents
* Approval of APA QC Plan
* Approval of information content of QC summary forms
* Feedback on CO draft document on post-production analysis of APAs 1-5, 7, and 8
* Decision on accepting non-conformances of APAs 1-5, 7, and 8