

DUNE-SP_APA_FDR_recommendations									
TITLE	DATE	#	System	DESCRIPTION	OWNER	RESPONSE	Status (Open / Closed)	DATE CLOSED	RECOMMENDATION STATUS per PM (Open / Closed)
DUNE-SP Anode Plane Assembly FDR	2021-10-01	1	APA	The APA team should ensure that updated schematics and associated BOMs are present in EDMS to accurately reflect the connectors used on the production boards.	PSL	All PCB drawing packages have been updated in EDMS.	Closed	2-Feb-2022	Open
DUNE-SP Anode Plane Assembly FDR	2021-10-01	2	APA	A review and subsequent release of the procedure of implementing no-tension soldering on the first 3 short wires should be provided to ensure larger safety margins. The number of wires which could have the no-tension soldering applied could potentially be expanded and should be considered by the production team.	PSL & Daresbury	Procedures are being updated. Will be added here: <a href="https://edms.cern.ch/document/2616182/1">https://edms.cern.ch/document/2616182/1</a>	Open		Open
DUNE-SP Anode Plane Assembly FDR	2021-10-01	3	APA	Deburring process and "smoothness" of the cable conduit needs to be more clearly specified in the drawing. What is in the drawing is a standard phrase (e.g. "break all sharp edges, internal and external"). If possible a rounded edge radius as big as half the thickness of the conduit should be specified.	PSL	Drawings have been updated: <a href="https://edms.cern.ch/ui/file/2112694/5/8760545_REV_A.pdf">https://edms.cern.ch/ui/file/2112694/5/8760545_REV_A.pdf</a> and <a href="https://edms.cern.ch/ui/file/2112694/5/8760086_REV_A.pdf">https://edms.cern.ch/ui/file/2112694/5/8760086_REV_A.pdf</a>	Closed	2-February-2022	Open
DUNE-SP Anode Plane Assembly FDR	2021-10-01	4	APA	Goals and procedures of the 10% APA cold test need to be clearly defined, in order to assess the impact of this test on the project, in terms of risk/gain, man-power and resources. These tests ought to start well before the installation at SURF and as soon as possible after the production of the first APAs, i.e. around late summer 2022, according to plans presented for UK APAs shipping to US. This is highly desirable, in order to intercept as promptly as possible any production issue: therefore facility preparation and procedure definition should be soon underway.	Brian & Justin	Document is in preparation for the PRR. <a href="https://edms.cern.ch/document/2689131/1">https://edms.cern.ch/document/2689131/1</a>	Open		Open
DUNE-SP Anode Plane Assembly FDR	2021-10-01	5	APA	All relevant procedures and fixture placement to ensure accurate wire positions and consistent tension must be documented and reviewed: the current document (tape and solder) only includes the X-layer boards and other documents (epoxy dispensing) are missing.	PSL & Daresbury	Updates are in progress. The tape-solder-trim document will be here: <a href="https://edms.cern.ch/document/2616182/1">https://edms.cern.ch/document/2616182/1</a>	Open		Open
DUNE-SP Anode Plane Assembly FDR	2021-10-01	6	APA	In light of recent findings of the failure mode of some of the ProtoDUNE-I CE channels, the APA team should work with the CE team quickly to investigate the potential cause and possible mitigation.	Christos & Marco	We reached out to the CE team and received no response.	Open		Open