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Date: November 22, 2020 Memo

To: Ming Liu, MVTX L2 manager

From: John Haggerty, Review Chair and sPHENIX Chief Scientist, and from Russell Feder, sPHENIX Chief ME

Subject: MVTX Production Readiness Review

A Production Readiness Review (PRR) for MVTX components will be held Dec 15th, 2020 as a virtual meeting. The purpose of the PRR is to address design updates and actions items from the FDR and approve readiness for fabrication of the MVTX Cylindrical Support Structure (CYSS), End Wheels, and Service Barrel and the MVTX “X-Wing” support structure. The review will also cover assembly fixtures, assembly procedures, and planning for the integrated support and insertion system in the core of sPHENIX.

The agenda for the MVTX review and web meeting link information is posted on INDICO here: [*https://indico.bnl.gov/event/10088/*](https://indico.bnl.gov/event/10088/)

**MVTX PRR Panel**

* John Haggerty (Chair) – BNL sPHENIX physics and detectors
* Russell Feder – BNL sPHENIX engineering and integration
* Dan Cacace – BNL sPHENIX engineering and integration
* Chris Pontieri – BNL sPHENIX engineering and integration
* Joe Silber – LBL physics and detector technology
* Leo Greiner - LBL physics and detector technology

In general a ***Production Readiness Review (PRR)*** addresses the following questions and topics:

1. **Engineering and Design** – Are the drawings complete? Have they been reviewed ,

approved, and released following guidelines? Are the drawings now

under configuration control? Has there been an appropriate independent review of the

design? If there have been changes to the documents since the Final Design Review,

have these changes been vetted properly? Are the changes still consistent with the

Requirements? Has appropriate parts lists been generated for all subsystem assemblies? Have all components been identified?

1. **Management** - Is the schedule for procurement, including internal signatures and

approvals, bid duration, material procurement, and fabrication been correctly estimated? Are they consistent with the Resource Loaded Schedule? Have all recommendations from prior reviews been properly addressed and approved?

1. **Fabrication** – Have potential vendors been identified? Will assembly be required? Who will perform the assembly? What are the acceptance criteria for parts? Is this

documented and part of the procurement package? Who will do the acceptance

inspection and testing? Is shipping included in the procurement? Where will equipment be stored upon arrival at BNL?

1. **Quality** - What are the quality assurance requirements for this procurement? Are

material certifications required? Are there intermediate inspection steps required during fabrication that will require BNL involvement? Are they clearly spelled out in the procurement documentation?

1. **Safety** – Have all safety requirements been satisfied and closed out?

General conduct of sPHENIX PRR’s is described in

<https://docdb.sphenix.bnl.gov/cgi-bin/private/ShowDocument?docid=207>