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## **US HL-LHC Accelerator Upgrade Project**


### **Production Readiness Review of the HL-LHC AUP MQXF Cable Fabrication Task 302.2.03**

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## 1. Goal & scope

The HL-LHC AUP project is planning to start MQXFA Cable Fabrication production in February 2019. Cable fabrication is performed at LBNL, where all prototype and pre-series MQXF cables were fabricated. Cable insulation, performed by external vendor, is included in the Cable Fabrication task and in the scope of this review.


Production Readiness Review (PRR) is a major review step in the HL-LHC Accelerator Upgrade Project (AUP). It is held prior to the start of series production, and is intended to be a largely technical review, but include assessment of the planned cost, schedule, and personnel needs to complete the production.

### Scope of PRR:

- Parts and materials for cable fabrication and insulation
- Manufacturing and test procedures
- Interfaces.

### Goal of PRR:


- Approval of plans and procedures for cable fabrication task
- Validate plan to start manufacturing

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## 2. Charges

The committee is requested to answer the following questions:

1. Scope and interfaces: is the L3 task scope clearly defined and are interfaces with other tasks sufficiently well-defined for executing the series production?
2. Manufacturing: are the manufacturing work flow documents and travelers — including scheduling, personnel needs, floor space, and facilities requirement—appropriate to execute the series production?
3. QA/QC: is the QA/QC plan adequate? Is there appropriate documentation for quality control procedures, manufacturing and inspection plan, and data reporting?
4. Cost and Schedule: are the cost and schedule estimates sufficiently well-defined and of adequate maturity to support the series production?
5. ES&H: Have all hazards been identified and addressed? Are ES&H policy and documentation sufficient for the series production?
6. Risk: are risks understood and appropriately managed for the series production?
7. Reviews: are all closeout recommendations for this L3 task from Final Design Review addressed?
8. Is this L3 task ready for series production?

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### 3. Technical information

#### Committee

Arup Ghosh (BNL, retired), chair  
Bernardo Bordini (CERN)  
Diego Perini (CERN)  
GianLuca Sabbi (LBNL)

#### Date and Time

January 22, 2019

#### Location/Connection

LBNL, room TBD  
Video-link by Zoom, info by email.

#### Link to agenda with talks and other documents

<https://indico.fnal.gov/event/19451/>