

**Auger Prime SDEU
Test System
PRODUCTION READINESS REVIEW (internal)
Review Plan**

**Review to be started and completed by teleconference, May 22, 2017
(version 3)**

Review Committee Members:

- 1) Patrick Stassi (chair)
- 2) Giovanni Marsella
- 2) Tiina Suomijarvi
- 3) Matthias Kleifges
- 4) David Nitz

Objective:

Find below the PRR objectives as defined in the Project Management Plan:

The Production Readiness Review is held subsequently to the CDR and before fabrication of components is started. The review covers work procedures, the quality plan, tooling readiness, packaging and shipping and production schedule.

More specifically, the main objective of the review is to assess if the design is compliant with the needed functionalities for the UUB tests activities and it is appropriate for proceeding to production, assembly and commissioning.

Scope:

The review should include:

- Electronics boards, hardware and on board software and firmware.
- Electrical interfaces and interconnection
- Mechanics

Charges to the Review Committee:

The Review Panel should address, but not be limited to, the following questions:

- 1. Performance:** Is the Test System design is compliant with specifications and the need of the test process described in the SDEU test plan?
- 2. Design:** Is the Test System design complete and stable?
- 3. QA and risk assessment:** Are the risks (for production) known and manageable?
- 4. Costs and Schedule:** Is the program schedule executable (technical/cost risks) within the production budget for the foreseen number of units?
- 5. Resources:** Is the program properly resourced?
- 6. Fabrication documentation:** Has the system product baseline been established and documented to enable hardware fabrication and software coding to proceed?
- 7. Product documentation:** Is the Test System is fully documented for external usage, maintenance, and additional external production?

Product Documentation needed:

- Design documents for hardware and software, including mechanical description
- Test reports on functionalities and performances
- User and maintenance manual (hardware and software)
- Production plan with risks, cost and schedule

Review organization

The review will be realized by videoconference system to be able to have the advantage of the video.

Date: **Monday 22nd May 2017, 16h00. Duration: about 2 hours**

AGENDA
16h00-16h30 – Overall presentation of the Test System (Siegen Team)
16h30-16h45 – Questions from the committee about the presentation
16h45-17h15 – Commented demonstration of the Test System (through video)
17h15-17h30 – Questions from the committee about the demonstration
17h30-17h45 – Review of the documentation
17h45-18h00 – Discussion and wrap up

(More time should be allocated if needed)

All the viewgraphs, presentation and documentation should be addressed to the review committee one day prior to the review.

Reference documents:

[Pierre Auger Observatory Quality Assurance Plan, October 2000, V1](#)

[PAO SDE Quality Management Plan, SDE_QMP Rev 2002-04](#)

[SDEU Development Plan, WP10LPSC02_SDEU_Dev_Plan](#)

[SDEU Hardware specification document, WP10LPSC03_SDEU_Specification](#)

[SDEU Test & Verification plan, WP10LPSC11I_SDEU_AIT_AIV_Plan](#)