Design Review Document

# Meeting Organization:

**Date**: 5-7 December 2017

**Type of review**: Critical Design Review

**System or component under review**: The ESS Bunker

**ESS Project Lead for system**: Zvonko Lazic

**Review committee members**:

Erik Iverson (chair), SNS

David Anderson, SNS

David Turner, STFC

Steven Lilley, STFC

Stuart Birch, ESS ICS

François Javier, ESS Syst. Eng.

Ken Andersen, ESS Instruments

Ralf Trant, ESS ES&H

Mark Anthony, ESS Target

Masatoshi Arai, ESS Techn. Coord

**Charge to Committee:**

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The purpose of this Critical Design Review is to assess whether the design solution satisfies all stated design requirements and whether it is defined at a level of detail consistent with release for fabrication and/or procurement; according to the procurement/production plan for the project.

Specific questions that the committee should address are provided below:

1) Are system requirements and interface requirements properly defined and complete?

2) Have safety and hazards been properly considered and addressed?

3) Do the System Design Description documents and related drawings adequately describe the design to the degree needed for fabrication or procurement; as per the project plan?

4) Does the design satisfy the functional and performance requirements?

5) Are the Manufacturing Plan, the Installation Plan, and System Analysis Reports finalized and do they support the stated design?

# Committee Comments and Recommendations

**Summary**:

**Responses to specific charge items**:

1) Are system requirements and interface requirements properly defined and complete?

2) Have safety and hazards been properly considered and addressed?

3) Do the System Design Description documents and related drawings adequately describe the design to the degree needed for fabrication or procurement; as per the project plan?

4) Does the design satisfy the functional and performance requirements?

5) Are the Manufacturing Plan, the Installation Plan, and System Analysis Reports finalized and do they support the stated design?

# Detailed Comments and Recommendations

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| Comment/Recommendation | Category 1 or 2\* | Committee Member |
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\* Category 1 means that the design team should address this recommendation prior to proceeding to final/detailed design, and Category 2 means that the design team should address this recommendation in due course during the final design process)