

PIP-II Cryogenic Plant Building Requirements and Specification Review Charge

WBS 121.06.03

TeamCenter Document Number: ED000XXXX

Revision History

Revision	Date Release	Originator: Role:	Description of Change
0	30 October 2018	S. Dixon	Initial Release
1	05 November 2018	S. Dixon	Corrected Description, Added J. Theilacker as Reviewer

Revision control is managed via Fermilab Teamcenter Workflows.

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1. Introduction

This review of the Cryogenic Plant Building (WBS 121.06.03) will review the current state of the design to ensure that the appropriate requirements have been addressed.

The Cryogenic Plant Building includes the elements of work normally included in conventional construction such as earthwork, utilities, structural concrete, structural steel, architectural cladding, finishes, roofing, plumbing, process piping, heating ventilation and air conditioning (HVAC), fire protection, fire detection, lighting and electrical.

The outcome of the review is to ensure that the documented requirements have been incorporated into the design at an appropriate level for this stage of the project development.

2. Review Agenda

Location: **TD/Meson West 9 – The Outfield**

Date: **November 14, 2019**

Time: **1:30 pm to 4:00 pm**

Indico Site: <https://indico.fnal.gov/event/18968/>

Participants:

- B. Hansen, TD
- B. Norris, ND
- J. Theilacker, TD
- A. Rowe, PIP-II
- A. Dalesandro, TD
- E. Huedem, FESS/E
- R. Wielgos, FESS/E
- S. Dixon, PIP-II

Agenda:

1. Introduction – S. Dixon
2. Cryo Plant Building Overview – S. Dixon
3. Discussion of Requirements – All
4. Recommendations – All
5. Close Out – S. Dixon

3. Review Charge Statement

The review committee is requested to review the requirements and specifications for the Cryogenic Plant Building to ensure alignment between the scientific goals and drivers, and functional and technical requirements. The review should address the following:

- Project level requirements
- System level requirements
- Requirement margins
- Operations requirements
- Reliability requirements
- Traceability to functional requirements
- Requirements validation processes

The outcome of the review is to ensure that the documented requirements have been incorporated into the design at an appropriate level for this stage of the project development.

The Functional Requirements Specification, Technical Requirements Specification and the 40% drawings for the work have been placed in the TeamCenter document and included at the Indico site.

4. Acronyms

List and define any relevant acronyms as necessary.

A/E	Architect/Engineer
FESS	Facilities Engineering Services Section
FRS	Functional Requirements Specification
PDR	Preliminary Design Review
TRS	Technical Requirements Specification

5. Reference Documents

List any relevant documents referred to in the Review Charge Statement. Include reference links or locations where the references are found. This list should include all documents with which the review committee should be familiar prior to the review.

1	PIP-II Project Review Plan (PIP-II-doc-1542)
2	Drawings and specification (ED0008373)
3	System Configuration Document (ED0008133)
4	Functional Requirement Specification (ED0006718)
5	Technical Requirement Specification (ED0006719)