



# PIP-II Review Introduction

Technical Integration Group  
Thursday, September 24, 2020

In partnership with:  
India/DAE  
Italy/INFN  
UK/STFC  
France/CEA/Irfu, CNRS/IN2P3

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# Introduction to PIP-II Reviews for Reviewers

- PIP-II has designed a process to help standardize technical reviews and documentation
  - Shouldn't change the technical presentations or discussions
  - Will change how the comments/recommendations are collected
- Review Charge and Committee Report are standardized
  - Are included on the indico page (<https://indico.fnal.gov/event/43805/>)
- Committee is asked to provide:
  - Findings (factual statements about the design you thought were significant when drawing your conclusions)
  - Comments (sort of soft recommendations, something you want to say but don't want to make a recommendation)
  - Recommendations (formal, actionable guidance on how to change/improve the design) that must be responded
- *Committee is requested to complete their report within 2 weeks*
  - *Committee report is a critical step in allowing the PIP-II milestone to be closed and work to proceed*

# Deliverable Verification

Example Document Table  
from Review Report

	Document Title	Status (preliminary, final, released)	Comments
1	L3 Functional Requirements Specification for PIP2IT Test Infrastructure	Released	These are the PIP-II requirements and interface documents used to guide the requirements for PIP2IT, including the 650 Test Stand. These documents are provided for reference and are not planned to be presented at this review.
	Master Interface Control Document (PIP2IT Test Infrastructure Items)	Released	
	Interface Specification Document from HB650 CM	Released	
2	CTL Failure Mode <u>Effect Analysis</u> (FMEA)	Updated	Status will be based on review outcome
3	CTL Prevention through Design Table	Updated	Status will be based on review outcome
4	ODH Calculations	Preliminary	
5	Schedule for 650 MHz CM Test Stand	Draft	Detailed schedule will be created for FDR/PRR
6	CTL Layouts/Routing	Preliminary	
7	CTL 3D Models	Preliminary	
8	CTL P&ID	Preliminary	
9	CTL Relief Calculations	Preliminary	
10	CTL Flexibility Analysis	Preliminary	
11	CTL QA/QC Plan for CTL	Preliminary	

- The one notable difference is design document deliverables
  - Part of PIP-II planning efforts is identifying reviews and planning on what design documents will be presented at each one
  - This list of documents is in the charge and copied in the committee report
  - One of the Review Charges asks you, as a committee, to comment on this list in your report (Table 2 of the report)*
  - Your comments on this list are critical for closing the loop for the project:
    - Are any documents missing from the list that should be there at this point?
    - Are any insufficient, under-developed for this stage of the design?
  - As part of your report, you are also asked to include an attendance list*



# Technical Integration Support

- The PIP-II Technical Integration team works to maintain and update this review process
- At least one member of the team will attend the review and is available for your comments, questions, and feedback
- *Alex Martinez* – [\*martinez@fnal.gov\*](mailto:martinez@fnal.gov)