PIP-II
Project Director Report
June 2021

Project Highlights

- Project Planning Documents (PPDs) with INFN signed
- Project Executive Board meeting held June 14, focus on readiness for execution
- PIP2IT disassembly and conversion to PIP-II Cryomodule Test Facility started
- PIP-II demographics data are presented as part of effort to broaden representation in the project

Upcoming Events

15 July	Workshop on PIP-II Maintainability & Operability
19-20 July	PIP-II High Power RF Intl Technical Discussion
10-12 August	PIP-II Accelerator Physics Workshop (tent)
12 August	Release of PIP-II Final Design Report
16 September	9th Project Executive Board meeting

Project Planning Documents with INFN are signed

In June the Project Planning Documents (PPDs) Parts 1 and 2, between Fermilab and Istituto Nazionale di Fisica Nucleare (INFN), Italy, for participation in the PIP-II project were signed by Fermilab Director, Nigel Lockyer and INFN President, Antonio Zoccoli. Thanks to our INFN partners for your collaboration!

INFN President, Prof. Antonio Zoccoli, signs the PIP-II PPDs

Fermilab Director Nigel Lockyer signs the PIP-II PPDs

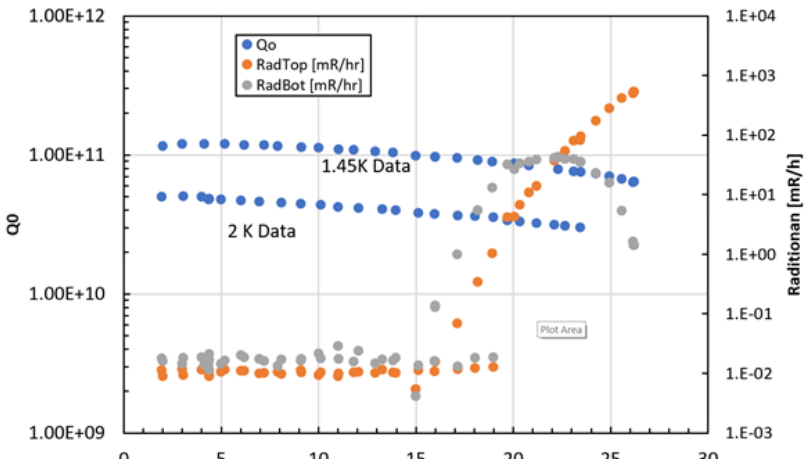
Project Executive Board Meeting #8

- The PIP-II Project Executive Board (P2PEB) provides project-wide planning, coordination, communication and issue resolution during all phases of the project, on all project aspects, including schedule, budget, resources, scope (technical and project management), safety and performance.
- The latest P2PEB was focused on Readiness for Execution to ensure the PIP-II Collaboration is ready for CD-3 and execution. Thirty-six participants attended the meeting from all Partner agencies.

International PIP-II team participate in the 8th P2PEB meeting

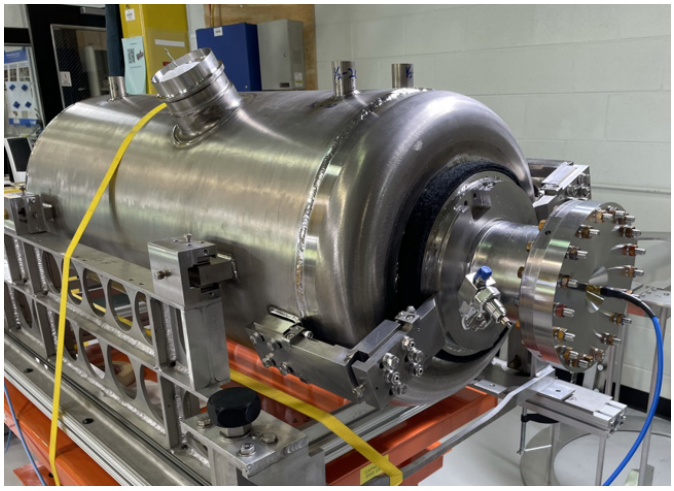
SRF/Cryogenics

- HB650 RRCAT cavity 504 (bare) reaches 26.2 MV/m in VTS test at Fermilab!
- PIP2IT disassembly work has begun. The Half-Wave Resonator (HWR) cryomodule was moved from PIP2IT to ICB.
- HB650 cavity AES-009 passed qualification for HB650 prototype cryomodule string assembly.
- HB650 RRCAT cavity 502 jacketing is complete. Post-jacketing field flatness 98%.
- SSR1 repairs successful. High temperature thermal shield (HTTS) was cooled down to temperature of 40K.
- Construction of the new MP9 SRF Clean Room is progressing.

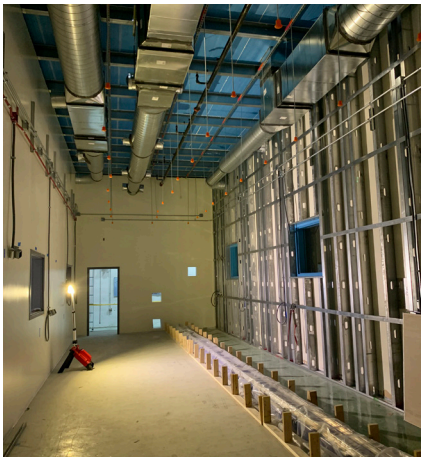


Q vs E plot of VTS tests of HB650 RRCAT cavity 504

HWR cryomodule moved from PIP2IT to ICB for storage



Jacketed RRCAT B92 cavity 502



MP9 cleanroom progress

Conventional Facilities

- Cryogenic Plant Building construction is ~60% complete.
- Electrical and mechanical equipment has arrived on site and installation is underway.
- In the coming month, the exterior concrete work will continue in preparation for the installation of FRA-provided gaseous helium storage tanks and well as continued progress on the building system rough-in work.

Instrument air equipment on site

ODH fans staged for installation

Helium Tank farm foundations underway

ICW piping installation underway

Rendering of completed Cryogenic Plant building

Instrument air compressors awaiting installation

PIP-II Demographics

- Data are based on the PIP-II Division and Fermilab employees working >50% on PIP-II. The objective is to benchmark our efforts to broaden demographic representation in the project. We plan to update the table regularly.

Category	Count	Female %	Male %	Black %	Hispanic %	Asian %	White %
'Engineer'	41	7.32%	92.68%	4.88%	4.88%	29.27%	60.98%
'Leadership'	9	44.44%	55.56%	11.11%	0.00%	0.00%	88.89%
'Mission Support'	15	33.33%	66.67%	20.00%	13.33%	0.00%	66.67%
'Computing'	1	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%
'Scientist'	16	6.25%	93.75%	0.00%	0.00%	12.50%	87.50%
'Technical'	33	12.12%	87.88%	3.03%	6.06%	6.06%	84.85%
'Total'	**115**	**14.78%**	**85.22%**	**6.09%**	**5.22%**	**13.91%**	**74.78%**