FY15 Goals

Paul Derwent

10 June 2014

PIP-II Status and Strategy

- PIP-II remains pre-CD-0
  - However, strong support from P5, OHEP, and Fermilab director
- Plan presented to P5 and DOE proposes five year construction period starting in FY2019
- Goals for FY2105
  - Prepare for CD-0
    - Expand PIP-II Whitepaper into a complete Reference Design Report
    - Flesh out Plan for CD-3
    - Maintain current cost estimate
      - Perhaps flesh out areas in which there is little detail
    - Start developing a resource loaded schedule
  - Receive RFQ (from LBNL) and initiate commissioning at PXIE
  - Keep HWR and SSR1 fabrication on schedule
  - Develop deliverables strategy with India and Europe
  - Support DOE/OHEP in development of Mission Needs Statement
  - Establish PIP-II Office
    - Hosted by Accelerator Division

Steve at last week's collaboration meeting

FY15 Goals & Budget

- **Building a pulsed 800 MeV 2 mA linac, with upgrade path to CW operation**
  - **Provide >1 MW to LBNE on Day 1**

- Combining appropriate SRF and PIP-II into one structure
  - managed by Steve
  - Budget retreat July 22, Skybox at NML
  - Labor and M&S requirements to meet the associated goals

- Goals for FY2105
  - Prepare for CD-0
  - Receive RFQ (from LBNL) and initiate commissioning at PXIE
  - Keep HWR and SSR1 fabrication on schedule
  - Develop deliverables strategy with India and Europe
  - Support DOE/OHEP in development of Mission Needs Statement
  - Establish PIP-II Office
    - Hosted by Accelerator Division

High Level Goals: FY15

1. Release RDR

   Val is leading the effort, available in October 2014

2. Establish Project Office

   Move to IARC in the fall, part of the Accelerator Division

3. Keep PXIE on Schedule

   RFQ commissioning, HWR and SSR1 moving forward

4. Support DOE CD0 process

   lots of documentation, probably including an updated cost estimate

Linac Goals

Overall 120A.02 goals:

1. Initiate beam commissioning and characterization of PXIE RFQ
   - Being ready for installation in Spring FY15
   - Commissioning and operation of RFQ power sources
   - Commissioning and operation of RFQ
   - Installation of MEBT in one buncher configuration
2. Update SCLinac design as required
2. Retain HWR and SSR1 fabrication on schedule.
3. Initiate work on CDR

Booster and Main Injector

- MI:
  1. Support RDR and CDR development
  2. Initiate AIP planning

- Booster:
  1. Support RDR and CDR development
  2. Develop 20 Hz strategy
  3. Initiate AIP planning

Conventional Facilities

- Site layout and buildings:

  1. Support RDR and CDR development
  2. Support NEPA activities as required
  3. Continue to refine facility configuration, w.r.t. transfer lines, shielding requirements, tunnel and gallery layouts, etc. to optimize costs.

Goals at L3

- Going to go over the list, but keep in mind the ones above
  - **Building a pulsed 800 MeV 2 mA linac, with upgrade path to CW operation**
    - **Provide >1 MW to LBNE on Day 1**
- Look through the list and think of
  - additions
  - subtractions
  - comments
- Setting goals for FY15