P0D INSTALLATION

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Jan 20, 2009
Utilities Shipping

- **P0D arrives at J-PARC ~Apr 15\textsuperscript{th}**
  - Air ship looks likely
  - Implication is 4 sP0dules go straight to linac bldg
  - Doesn’t change plan – except shipping utilities materials/tools
- **Need a plan for shipping these things…**
  - Small container out of SBU makes sense
  - Some checkout will be performed at SBU
  - Must get on this NOW
  - Water-related checkout should happen early in J-PARC checkout – i.e. before electronics.
  - Implication is that we want to have container ship by early/mid March
  - Info to Tsukamoto-san 5 weeks in advance
Shipping Arrangements

1. Detector groups should inform Roy and Alan
   A. transportation plan with schedule
   B. shipping information filled in the form provided by Tsukamoto at least 5 weeks before the planned shipping date.
   C. Roy will pass the information to Tsukamoto without delay

2. Detector groups will contact the branch of the shipping company in Japan, which is shown in the form, to discuss about the customs procedure to make clear how to do the customs clearance procedure for duty-free. It is requested that the branch can do which can do the procedure.

3. Detector groups can ship the material only after
   A. deciding the scheme to reduce and pay the customs
   B. preparing necessary papers for the custom procedures such as donation letters
   C. getting agreement of Tsukamoto.

4. Detector group should cover the payment for the transportation to J-PARC, unloading at J-PARC and customs procedure in Japan
Utilities Schedule

- P0D schedule largely decoupled from utilities
  - Start June 1st
- Should have task/safety forms to Roy 4 weeks in advance
  - First forms due no later than May 1 (SS rack install)
- Would like to be done by time of B-field map
  - What could be done during mapping – H₂O target?
  - Likely know more by week’s end
  - As schedule stands we would have nearly 3 weeks between field map and P0D install – I am just more comfortable with front-loading
See DocDB for most up-to-date schedule
March
March 2-6: Everything for utilities shipment at SBU
March 16: Utilities container ships

April
April 15: P0D and utilities container arrive J-PARC
         (need someone onsite Apr 1 for arrangements – Walter)
April 15: P0D and utilities container arrive J-PARC
April 20-24: P0D checkout begins in linac
             (power req. to Roy this week – same as pit req.?)
             (arrange for water source)

May
May 1-31: P0D checkout continues
May 1: All task/safety forms for June tasks must be submitted
May 29: P0D util and P0D LI racks on site in preparation for install
June

June 1-30: P0D checkout continues
June 2: Rack installation (SS level – P0D utilities and P0D LI)
June 4-10: LI utilities installation (boxes on basket and cables run)
June 3-8: Water tank installation and testing
June 9-10: Water target pump rack installation
June 11-16: Water target pump installation and testing
June 17-23: Water target routing
June 24-30: Slow control/monitoring

July

July 1-31: P0D checkout continues

Magnet field map
P0D Install in Basket

Aug 18: Transfers P0Dules to apron

For each super-p0dule:
- crew 1: lower into pit (6hrs)
- crew 2: connections and visual inspect (6hrs)
- crew 1&2: check out

Crew 1: 1 senior + 1 student/postdoc
Crew 2: 1 senior + 1 student/postdoc

day 1
day 2

Aug 19-20: Upstream ECAL
Aug 21-24: Upstream H₂O target
Aug 25-26: Downstream H₂O target
Aug 27-28: Central ECAL

Sept 1: P0D Survey
Personnel Needs

(Walter not included in needs estimates)

**April**

April 13-17: Norm, Dave + 1-2 student/postdoc (receive P0D and container)
April 20-30: 1 senior, 2 student/postdoc (P0D checkout)

**May**

May 1-31: ½ senior, 2 student/postdoc (P0D checkout)

**June**

June 1-30: ½ senior, 2 student/postdoc (P0D checkout)
June 4-10: 1 senior + 1 student/postdoc (LI utilities)
June 2-23: 1 senior + 1 student/postdoc (water target utilities installation)
June 24-30: 1 senior + 1 student/postdoc (slow control/monitoring)
Personnel Needs II

**July**
July 1-31: ½ senior, 2 student/postdoc (P0D checkout)

**August**
August 1-14: ½ senior, 2 student/postdoc (P0D checkout)
August 19-28: 2 senior, 2 student/postdoc (P0D Installation)

**September**
September 1-30: 1 senior, 2 student/postdoc (P0D commissioning)