

Project Progress Summary

5 September 1990

Injector and Front End Test

- Waveguide connections to the first HPA have been done and klystrons are being installed.
- Plumbing for injector service building has been installed. LCW system operational.
- The approach has been defined for cryomodule installation sequence. First cryomodule slated to be installed by 7 September.
- Injector girder has been surveyed and bolted to floor.
- The grouting of the stands for the injector elements of the front end test was completed.
- Conduit for the safety system has been finished. Many of the support elements are also installed: keybox, status lights, card readers, door switches.

WBS 1

- John Brawley successfully welded an rf window frame. The weld parameters program works fine.
- The cryomodule is scheduled to be installed in the tunnel 6 September.
- The sixth cavity pair has been turned over to the cryo unit assembly area. This will complete the cavities needed for the next full cryomodule.
- The acid transfer system for the on-line chem room is being commissioned.
- 850 niobium disks for cavities have been inspected and meet specifications.
- The 1/4 cryomodule is installed in the Test Cave; testing begins the week of 10 September.

WBS 2

- All magnets required for the FET were received.
- The preliminary requirements drawing and specification for the injector and linac tunnel water system was given to Plant Engineering for them to create a bid drawing.
- Installation of the injector service building water system neared completion.
- The survey group continued work on the skeleton traverse of the entire tunnel and fiducialized the quarter-cryomodule.
- The design for the FET spectrometer was approved.
- The spreader/recombiner dipole procurement package was issued to vendors.
- The conceptual method of accurately mounting the BPMs to the quads in the arcs using a captured pilot portion of the beam pipe was resolved and a verification program initiated.

WBS 3

RF Controls:

- Sent preliminary spec out for master oscillator.
- Prototype arc detector tested on cryomodule.
- Received first lot of 2.5 watt amplifiers.

RF Power:

- Now have 41 klystrons from Varian. Returned #30 - it appeared to have been dropped in shipment.
- The circulator problem was the circulator waster load matching. They had added a matching disk to the feed line; it will be redesigned for higher power rating.
- HPAs and power supplies installed in injector service building. First four klystrons and waveguide parts installed in the first HPA.
- LCW manifold for the injector 95% complete. Got water 4 September.

WBS 4

- Finished WBS 1 cable pull.
- Completed AC power wiring for first HPA unit.
- Ordered transformers and breaker panels for east arc service buildings through E-6.
- Received six more utility chassis for use in FET trim system for a total of seven on hand.

WBS 5

Diagnostics:

- Boards for 100 megahertz FET BPMs ordered.
- Line drive prototype design tested.
- Current to voltage converter design tested.

WBS 6

- Hall C support structure RFP expected to be issued 7 September.
- Hall C dipole RFP expected to be issued 11 September.
- Four bids received 12 July for CLAS torus (Hall B), preparing for BAFO request.
- Hall A dipole RFP issued and bidders conference held. Bids due 7 November.
- CLAS prototype chamber at BNL for testing.

WBS 7

- Preparing the 4-K system at the CHL for the pressure leak test.
- Final leak check of the 6-inch supply transfer line to the south linac completed.
- Completed leak check on the 10-inch line in the CHL return transfer line from the south linac.
- Completed the second bayonet can for the CHL LN₂ distribution system. Vacuum jacketed pipe 90% complete; installation at CHL should start this week.
- Floor grating I-beams have been installed and painted at CHL. Installation of the grating should start this week.

WBS 8

Accelerator Enclosure:

- East arc service buildings have been punch-listed and contractor is cleaning up the list for turn-over on or about 1 October.
- LCW system (10") has been brought on line and is now providing LCW to the injector service building.
- Tunnel backfilling is completed.
- All structural concrete on this contract is now completed.
- Contractor has started paving along road by north linac service building and the east arc area.
- Virginia Power is completing clearing on south property line for running their overhead HV lines to the 40 MW transformer.

End Stations:

- Concrete walls under way on the counting house.
- Personnel access tunnels for all three halls are under way.
- Approximately 60% of the beam tunnels are poured.
- Dewatering piping is complete at halls A and C.

EEL:

- Topsoil is placed.
- Painting continues.
- Majority of pavement has been placed.
- Mechanical and electrical work continues.

Linac Installation

- Training on the Installation Standard Operating Procedures was conducted with WBS 2.0 personnel.
- Continued to mount cable tray and safety system box way.
- Five sections of LHe supply transfer line were moved into the north east linac tunnel. All sections are in place except the turnaround box.