

Project Progress Summary

6 November 1990

Injector and Front End Test

- RF power was successfully run from quarter-cryomodule HPA to dummy load in tunnel.
- Vacuum hookup of 5-MeV chicane was performed.
- Vacuum hookup was completed from station 96 before first cryomodule to station 190. From gun to station 190 only one 5-ft beamline section awaits attachment after cryomodule helium adapters are installed.
- Valve control was established from MCC for all vacuum valves except SRF.
- West arc and north tunnel gates were completed and locks in service buildings were rekeyed in preparation for establishing ODH Class 1 area on 7 November.
- RF control module for capture section is undergoing testing in MCC in preparation for installation this week.
- Chicane assembled and under vacuum.
- All connections between differential pumps and SRF cavities completed.
- 45-MeV spectrometer mounting drawings signed off--installation to be done this week.
- Water system for capture section complete and being installed.
- First magnets for FET recirculation have arrived. All have been shipped to CEBAF.

WBS 1

- The fixture technique and program are set to electron-beam weld six RF windows in one pumpdown. Welded transition hats for the pair-testing setups.
- Cavity pair IA014/IA015 has a leaking gate valve and will be replaced this week.
- C' pair IA8/9 has been processed using the old gate valve and will be tested today.
- The VAT valve has been qualified; 36 are on order and will arrive this week.
- The October shipment of Interatom cavities is delayed. Six will be shipped this week and the other six shipped the week of 19 November.
- The new (second) cryomodule is complete and leak checked, and will move into the test cave today. Cooldown will start this week with testing beginning next week.
- Two cryounits for the next (third) cryomodule are going into their helium vessels.
- All vacuum connections have been made in the tunnel for the quarter and full cryomodules.
- Delivered four more RF windows for cavity assembly (#31-#34).

WBS 2

Magnets:

- A trial assembly of the first 1-m dipole (BE) for the arcs was performed with ease. Minor problems were taken care of "in situ."

Vacuum/Stand:

- A universal tube portion for all connections was agreed on as part of the quadrupole girder to attach vacuum pumps and diagnostics.

WBS 3

RF Controls:

- One RF control crate and two control modules are complete and ready for testing.
- A design review will be held for LVDT tuner position readout card. The design was approved and we will start production of modules immediately.

RF Power:

- Ferrite Components modified and shipped four circulators. They worked very well and exhibit good isolation at full power. FCI was so confident of their fix that they shipped 18 more circulators. We now have more than enough circulators for the FET. Bill Alton from FCI will come to CEBAF and modify the remaining circulators.
- Unique Systems shipped sixteen couplers and sixteen transitions.

WBS 4

- Finished debugging two Rev. C trim system regulator boards. They are now ready for a week of intensive testing.
- Started AC power installation in east arc service buildings.
- Finished "Bertha" (portable three-phase transformer and breaker panels) except for the breaker panel cover, which is on order.
- Developed cable pull information for the trim system runs in the first half of the north linac service building.

WBS 5

Safety:

- All FET run/safe boxes are installed and terminated.
- Card Reader system is operational and card database is being generated.
- ODH system is ready for 7 November operation.
- Temporary gates switches will be wired this week.
- FET FSD (fast shutdown) system is installed.
- FET safety system checkout will begin this week.

Diagnostics:

- 100-MHz BPM tunnel electronics ready to be installed. Detector chassis being wired.
- 1500-MHz tunnel boards stuffed. The first 1500-MHz detector board is being stuffed and will be operational by next week.

WBS 6

- No report received.

WBS 7

- Running seven-day CHL compressor acceptance test.
- Phase separator and 20-K heater are ready to be installed Wednesday, 7 November.
- Building U tubes for FET.
- Helium supply system at CHL ready for initial leak test.
- Supply transfer line end boxes in fab for south linac in progress.

WBS 8

Accelerator Enclosure:

- All work is nearly complete. The subcontractor is developing punch lists on remaining facilities which have not been accepted by CEBAF. Joint punch list inspections on the remainder of the accelerator tunnel are planned for the end of this week, with more to follow next week.

End Stations:

- Continued repair work on beam tunnels A and C.
- Completed the structural concrete walls and roof in beam dump C.
- Completed the floor slab in Hall C.
- Installing steel reinforcing and forms for the walls in Hall A.
- Continued waterproofing the counting house.

EEL Building:

- Tuesday, 30 October was the official BOD.
- The subcontractor continued correcting the remaining punch list items.

Machine Shop

- Magnet prototype and alignment fixtures completed for WBS 2.
- One air compressor partially installed for shop usage.

Stockroom

- Added two new kits: logic board (WBS 3) and shunt regulator board (WBS 4). This makes a total of 15 kits in stock.
- Received 101 items and added seven new items.

Shipping and Receiving

- Effective 12 November, the Material Services group will move to the EEL building. Services that will be provided are: property control, shipping and receiving, mail distribution, and central stores distribution.

Installation

- The shielding wall will be completed this week, blocking movement of equipment.