

PROJECT PROGRESS SUMMARY

January 23, 1991

Multidisciplinary Appraisal

- DOE Oak Ridge Operations has begun its ES&H and QA appraisal of CEBAF. One group leader will be present the entire two weeks; reviewers for specific areas will be present for either the first or second week. Specific areas to be covered are as follows, with the number of reviewers in parentheses after each topic:

<u>This Week</u>	<u>Next Week</u>
Construction and Industrial Safety(1)	Groundwater (3)
Industrial Hygiene (1)	Health Physics (1)
Facility Safety (non-radiation) (3)	Quality Assurance (2)
Fire Safety (1)	

WBS 1

- The cryomodule cutter has been received and works very well.
- The second cryomodule is being cut apart for rework of the HOM flange joints to prevent leaks.
- The four cryounits for the third cryomodule are being assembled back into their helium vessels following rework of their HOM flange joints.
- Ten HOM flanges have been leak checked at room temperature with no leaks noted. Ten ceramics have been brazed and will be leak checked at 2 K.

WBS 2

Magnets:

- A design review was held for the arc quadrupole (QA).

Survey and Alignment:

- Started the program to increase the density of the monument network throughout the accelerator enclosure.
- Another level survey of the enclosure was started as part of the ongoing monitoring effort.

Vacuum:

- The first shipment of custom-made clamp-on power supplies for the arc vacuum pumps is on its way.

Occupational Health and Safety:

- In addition to normal cleanup, we reviewed a considerable number of details of our work areas to enhance safety--improving electrical wiring practices, minimizing tripping and snagging hazards, and improving our control and awareness of the chemicals we use.

WBS 3

RF Controls:

- Control module now running with the math co-processor activated. The speed of operation is much improved.

RF Power:

- The scheduled HOM filter manufacturing progress review was held at CEBAF. Gamma Microwave problems with slow delivery from its vendor have been overcome.

Fabrication:

- Started work on the first production crowbar unit, which will be used as a model for the remaining 43 units.

WBS 4

- No report received.

WBS 5

- No report received.

WBS 6

- No report received.

WBS 7

- 2-K cold box arrived and set in place. Some National Electrical Code violations identified. Corrections in progress.
- All area housekeeping completed. Cleanup time has been allowed each day. CVI has been informed of the new rules of daily cleanup.
- Another leak has been identified in the 4-K cold box; repair activities are underway.
- The new trim for the 130 valve, #4 turbine bypass, does not seat and seal properly. This is a number one priority; repair activities are underway with CVI.
- Electrical inspections have been completed at all cryogenic locations. Corrections are under way.
- Vacuum header for the regeneration of the 80-K purifiers at the CHL is complete. LN2 and electrical must be completed prior to operation.
- A leak test of the 30,000-gallon LHe dewar is under way.

WBS 8

- No report received.

Accelerator Division Support Services

Stockroom:

- All PR's for WBS 3 electronic kits were completed.

External Fabrication:

- Contracts for WBS 3 have been awarded for:
 - 125 crates and modules
 - 47 assemblies of the multi-output power supply.

Training:

- Within the next ten days Personnel will publish the next "Training Opportunities Bulletin," providing details on upcoming courses including the following:

February 6 (and again March 6)	Safety Orientation
February 11	Radiation Health
February 12	Forklift Operator Training