

JLab STL REPORT, 16-Jan-04

ASD/JLAB: Cold Linac

- The M-4 cryomodule was shipped to ORNL
- Assembly of the M-9 cryomodule has begun.
- Cavity HB-07 failed to qualify. Investigation revealed another failure of the high-pressure rinse pump. The pump is being replaced with a spare and we expect to be back in operation next week.

We now have enough data to estimate the pump lifetime under current processing protocols as between 75 and 100 hours of operation. A preventive maintenance program to replace the pump after 75 hours (~4 weeks) has been put in place and additional spare pumps have been purchased.

Failure is always associated with overheating. A life test program with one spare pump assembly will investigate techniques for life extension through improved cooling.

- Cavities for the M-10 string were all processed after HB-07 and are assumed to be contaminated. The string has been disassembled. All cavities will be reprocessed.
- The M-7 cryomodule developed another helium-insulating vacuum leak late in cooldown (all cavities were below 50 K). The leak is much smaller than the earlier leak, but is still too large to allow continued testing. The cryomodule has been warmed and removed from the test cave for repair.
- Assembly of the M-8 cryomodule continues.