

**JLab SNS Cryomodule Production Status Report
For Period Ending December 5, 2003**

	Cum. To Date		Previous 4 Wk Running Average		Next 4 Wk Rate (To Complete by Jan. 05)
	Plan	Actual	Plan	Actual	
Cavities Produced	28	31	3	3	3
Cryomodules Produced	6	7	0	1	1

Major Accomplishments

- The insulation vacuum leak in cryomodule M-5 has been isolated and repaired.
- Testing of cryomodule M-6 is nearly complete. The three cavities exceeded the gradient specification at design Q_0 by 170%, 120% and 160%, in the order they were tested.
- Assembly of cryomodule M-7 was completed.
- The leak in the M-8 cavity string was isolated and repaired. The string has been handed off to cryomodule assembly, which has begun.
- More robust, reliable turntable bearings for the High Pressure Rinse cabinet have been obtained. They will be installed at the first opportunity.

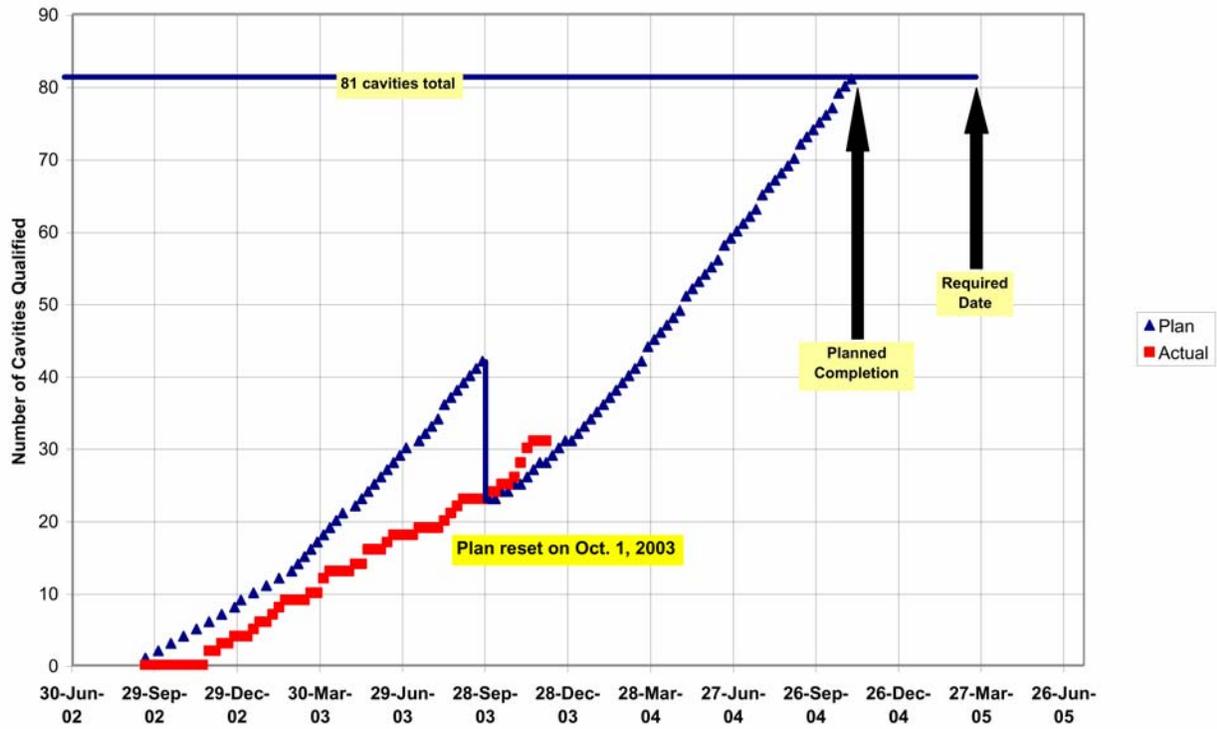
Key Issues & Actions Being Taken

- Persistent failures of the high pressure rinse pump led to the first failure of a cavity to qualify on the first test since the new procedures were implemented. Intensive investigations, vendor visits and procurement of additional spares have addressed the problem. The issue seems to be an unsuspected sensitivity to alignment. The cabinet is back in operation with the pump and motor running at significantly lower temperatures than in the recent past. Previous pump failures released quantities of oil into the water piping, contaminating the filter. Piping has been cleaned and the filter replaced. Cavities are being processed and the water quality is once again excellent.
- Excessive heating of the probe tip in one of the Higher Order Mode (HOM) couplers has been noted on two occasions during medium beta cavity testing. This is not a risk to performance of the medium beta cavities because it occurs well above operating power levels. New probes will be made available to mitigate risk to performance of the high beta cavities.

Management Items

- Nothing to report at this time.

JLab SNS Cavity Qualification



JLab SNS Cryomodule Production

