

**JLab SNS Cryomodule Production Status Report
For Period Ending January 23, 2004**

	Cum. To Date		Previous 4 Wk Running Average		Next 4 Wk Rate (To Complete by Jan. 05)
	Plan	Actual	Plan	Actual	
Cavities Produced	34	37	3	1	4
Cryomodules Produced	7	7	0	0	1

Major Accomplishments

- The M-6 cryomodule has been shipped to ORNL.
- All primary piping on the M-9 cryomodule is complete. Tuners and instrumentation are being installed.

Key Issues & Actions Being Taken

- The M-7 cryomodule vacuum leak is being repaired.
- The replacement high-pressure rinse pump failed (same mode) 16 h into a 24 h conditioning run, with clear indications of an alignment instability. The local expert representative of the pump manufacturer was present when the failure was detected, examined the installation and made several recommendations for improvement. All these improvements have been implemented with the replacement of the pump and the conditioning run is under way.

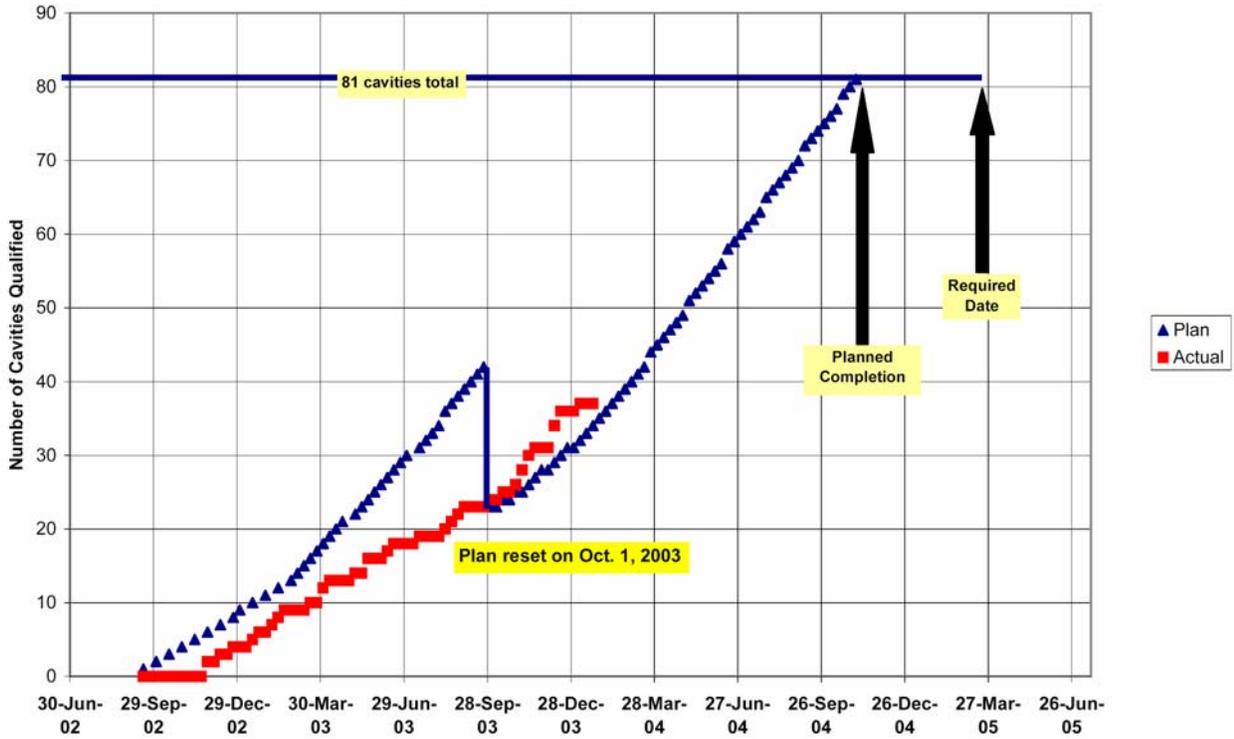
Results are starting to come in from the life extension test stand, which has been assembled and started up. The initial focus is on reducing operating temperatures by improving alignment, better pump support and decoupling the mechanical alignment of the pump from that of the motor using a flexible coupler.

For the long term we are switching to a Lewa pump, which is significantly larger than the present pump. There is no room inside the Test Lab suitable to house the pump, so construction of a small and simple extension to the building is required. An integrated planning team has begun preparations to accommodate the larger pump. Our present understanding is that pump delivery (13 weeks ARO) will be the pacing item on this activity, implying that switchover to the new pump cannot take place before May. Maintenance of the SNS schedule is therefore dependent on a successful outcome of the existing pump life extension program.

Management Items

- Management continues to closely monitor progress on resolution of the high-pressure rinse pump problems.
- The follow-up close-out to the October 15, 2003 review of JLab's SNS cavity processing procedures and facilities will take place by videoconference February 2, 2004.

JLab SNS Cavity Qualification



JLab SNS Cryomodule Production

