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The overall progress for Tank-3 has been excellent over the last week. In spite of finding two leaking drift tubes (old ones that will be replaced later on), Tank 3 is ready to be pumped down and on track for conditioning as planned (April 25<sup>th</sup>). DTL 1 assembly will begin next week and the schedule projects the tank ready for rf processing during the week of June 16<sup>th</sup>. This will delay the ARR and the Tank-1 commissioning by ~ 6 weeks with respect to the original IPS milestone date of Mai 22<sup>nd</sup>. There are no changes on the status table this week but we expect a large amount of hardware for Tank-1 coming in next Monday.

Jim Billen was at ORNL to lead the Tank-3 tuning (accelerating fields and drive iris). Work was completed on 4/10, 1.5-days ahead of schedule. The drive iris for T-1 is complete and was shipped to ORNL. Seven salvaged T-1 drift tubes (empties) were delivered to ORNL. All rebuilt T-1 drift tubes have had both faces profiled and all have passed leak checking; one needs to be plated and another checked regarding possible surface porosity (non-weld). Nineteen units have had stems welded on and all welds have been successfully leak checked. Units will be split between plating and stem straightening to speed production. We project shipping the first batch on 4/15. Forty T-1 top hats are complete; balance is being plated. New welding fixture for T-1 post couplers were fabricated and will be tested next week at ESCO. T-4 and 5 drive irises are undergoing interior cavity machining. 28 additional T-4 diverters are ready for diverter to sleeve braze. With weld qualifications completed (Fig. 1), water channel welding of T-4 drift tubes are underway at Hanford. T-4 stand is being machined; projected ship date to ORNL is 4/18.

A large leak has been found in DT-23 and smaller one on DT-29, which are dipole magnet DTs. The leaks are not from a water channel but are from the interior of the DT, which is vented to the outside of the tank. Differentially pumping this volume on all four DT's has allowed the tank to be evacuated to the 10<sup>-6</sup> torr level. Leak testing of the tank is continuing. The DTL-3 klystron was run, under EPICS control at 10 Hz with 1.0 ms pulse width, up to full rf power into a waveguide short in power increments while the ORNL Health & Safety Services swept the klystron and waveguide flanges at each new power level. No RF emissions were detected. The DTL-3 klystron is now ready for high power service. The DTL-3 downstream and upstream shield walls have been completed. These walls are used to provide shielding for DTL-3 during conditioning, which will begin late next week.

<b>Milestone description</b>	<b>Baseline date</b>	<b>Working Schedule</b>	<b>Number total</b>	<b>Number or % complete</b>	<b>Delta last week</b>
DTL 3 DT's repair	Feb 28 <sup>th</sup> '03	March 31	27	100%	0
DTL 3 EMDs	Mar 12 <sup>th</sup> '03	Feb 27	4	100%	0
DTL 3 Dummies	Mar 12 <sup>th</sup> '03	April 4	2	100%	0
DTL 3 BPM's	Aug 31 <sup>st</sup> '03		2	0	0
DTL 3 Top hats	Mar 6 <sup>th</sup> '03	March 13	31	100%	0
DTL 3 postcouplers	Mar 6 <sup>th</sup> '03	March 31	16	100%	0
Waveguide taper	Mar 13 <sup>th</sup> '03	March 31	1	100%	0
DTL 3 ready for RF	April 16 <sup>th</sup> '03	April 25		IPS marker DTL045	
DTL 1 DT's repair	Mar 18 <sup>th</sup> '03	April 9	7	100%	0
DTL 1 DT's rebuilt	April 17 <sup>th</sup> '03	April 30	48	0	0
DTL 1 dummies	Mar 27 <sup>th</sup> '03	April 30	4	0	0
DTL 1 DT's installed	May 1 <sup>st</sup> '03	May 9	100 %	0	0
DTL 1 other parts	April 1 <sup>st</sup> '03	April 30	100 %	0	0
All DTL 1 parts shipped	Mai 20 <sup>th</sup> '03	June 5	100 %	IPS marker DTL055	0
DTL 1 ready for rf	May 21 <sup>th</sup> '03	June 16	100 %	IPS marker DTLINK31	