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The big achievement during the last week was of course the acceleration through tank 1 on Thursday afternoon. Progress since then has been steady and very good. Many of the diagnostics and application programs are up and running and first results come in. Transmission from the Front End Systems through DTL 1 is 100% within the precision of the measurement.

Of concern is the Tank 2 schedule, which is showing delay due to an additional heat treat step that was added to the fabrication sequence. We are looking for ways to gain back time. Present dates make it nevertheless unlikely that the December commissioning date for DTL 1-3 can be held. End of January is more realistic if present dates hold.

For Tank-2 Group J water internal machining has begun. All tank 2 end caps were machined and 26 water channel welds were completed. Waveguide final brazing is scheduled for next week. Projected date for arrival in ORNL of waveguide is 9/24. For tank 4 final profiling is underway; a second machine has been qualified for final profiling. Groups A & B are at CMI for final profiling; group C will ship from Hanford to New Mexico. The welding for group D are complete tomorrow and they should ship to NM on 8/26. For tank 5 all drift tubes (magnets and caps installed, see Fig. All are shipped to Hanford for water channel weld repairs and cap welds. Welding is expected to start 8/25. For tank 6 drift tubes are ready for magnet installation (Fig. 1). Waveguide final brazing is scheduled for next week. Projected date for arrival in ORNL of waveguide is 9/16.

EMD and BPM DT's: A very productive week of welding occurred at Sciaky. Some welding problems occurred but they were satisfactorily dealt with. Reworked drift tubes 2-39 and 5-19 are about caught up with the production stream. BPM drift tube parts underwent brazing at LANL. Approximate (schedules still be reworked) delivery dates to ORNL as currently calculated are tanks 2, 6 and 4 EMDs: 9/24, tanks 1, 3 and 5 EMDs: 10/21 and tanks 2-6 BPMs: 11/5.



Fig.1: (a) DTL Tank-5 magnet installation; (b) Tank-6 drift tubes (c) beam box segment 3/4 ready for electro polishing.

The ARR committee gave the go ahead for DTL-1 commissioning activities to begin on August 26, 2003 and first beam passed through DTL-1 on August 28, 2003.



DTL-1 and D-plate in Final Commissioning



DTL-2 Tank Segment Assembly in the FE Building

DTL-2 tank segments have been assembled in the FE building. The tank will now be blanked off in preparation for leak testing.

Component	Engineer	Tank 4					Tank 5				
		Identifier	Quantity	Shipping Date	Delivered	Change from last week	Identifier	Quantity	Shipping Date	Delivered	Change from last week
Drift Tubes	Gentzlinger	4A	7	24-Sep-03	0		5E	8	27-Oct-03	0	
		4B	6	25-Sep-03	0		5F	7	29-Oct-03	0	
		4C	6	29-Sep-03	0		5G	8	3-Nov-03	0	
		4D	8	15-Oct-03	0						
Dummies	Gentzlinger			With DT Groups				With DT Groups			
EMDs	O'Hara		4	29-Oct-03	0		4	13-Nov-03	0		
BPMs	O'Hara		2	29-Oct-03	0		2	29-Oct-03	0		
Top hats	Rowton	1.25"	27	15-Sep-03	0		1.25"	23	9-Sep-03	0	
Shrouds	Rowton		27	15-Sep-03	0		23	9-Sep-03	0		
Endwalls	Turon		2	Complete	2		2	Complete	2		
Post Coupler Kits	Rowton		27	Bead Pull + 15	0		23	Bead Pull + 15	0		
Slug Tuners	Rowton		12	Bead Pull + 7	0		12	Bead Pull + 7	0		
Access Ports			2		0		2		0		
RF Grills			4		0		4		0		
Wave Guide-Iris	Valdiviez		1	Complete	1	0	1	Complete	1	0	
Window	Young		1	Complete	1	0	1	Complete	1	0	
Stands	Turon		1	Complete	1		1	Complete	1	0	

Milestones	Date	Date
Ready for RF	14-Nov-03	14-Nov-03
Ready for Beam	28-Feb-04	28-Feb-04
Tank Commissioning complete	1-May-04	1-May-04

Component	Engineer	Tank 6					Tank 2				
		Identifier	Quantity	Shipping Date	Delivered	Change from last week	Identifier	Quantity	Shipping Date	Delivered	Change from last week
Drift Tubes	Gentzlinger	6H	10	7-Nov-03	0		2J	12	9-Oct-03	0	
		6I	11	14-Nov-03	0		2K	12	14-Oct-03	0	
Dummies	Gentzlinger			With DT Groups				None			
EMDs	O'Hara		4	13-Nov-03	0		4	9-Oct-03	0		
BPMs	O'Hara		2	5-Nov-03	0		2	16-Oct-03	0		
Top hats	Rowton	1.25"	21	30-Sep-03	0		.75"	41	18-Sep-03	0	
Shrouds	Rowton		21	30-Sep-03	0		1.00"	6	18-Sep-03	0	
Endwalls	Turon		2	Complete	2		2	Complete	2		
Post Coupler Kits	Rowton		21	Bead Pull + 15	0		27	Bead Pull + 15	0		
Slug Tuners	Rowton		12	Bead Pull + 7	0		12	Bead Pull + 7	0		
Access Ports			2		0		1		0		
RF Grills			4		0		4		0		
Wave Guide-Iris	Valdiviez		1	25-Sep-03	0	0	1	17-Sep-03	0		
Window	Young		1	15-Oct-03	0		1	15-Oct-03	1		
Stands	Turon		1	Complete	1	0	1	Complete	1		

Milestones	Date	Date
Ready for RF	14-Nov-03	14-Nov-03
Ready for Beam	28-Feb-04	30-Jan-04
Tank Commissioning complete	1-May-04	1-May-04