Commissioning Update M. Drury





C100's

- 1L22 Emax and Field Emission Measurements 95%
- Qo's to start this evening
- HOM Survey Completed

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- As of now ahead of schedule by a week
- 1L24 Should be ready for testing next week
- 2L26 Installed Waiting for Cool down
- 1L25 to be delivered on Thursday



C100-03 Performance So Far

C100-3							
Acceptance		Commission		Acceptance	Commission	Acceptance	Commission
Emax		Emax		Emaxop (Single Cavity)	Emaxop (Single Cavity	Emaxop (Eight Cavity)	Emaxop (Eight Cavity)
23.7	Quench	20.8	Quench	23.0	20.1	21.5	
21.7	Quench	24.2	Quench	21.0	23.8	21.0	
25.0	Admin	21.6	Quench	25.0	21.0	21.2	
22.9	Quench	23.4	Quench	22.3	L 22.7	22.1	
21.6	Quench	25.0	Admin	21.0	25.0	21.0	
24.9	Quench	22.8	Quench	24.2	2 22.0	20.2	
22.2	Quench	23.2	Quench	21.5	5 22.5	21.5	
24.5	Quench	25.0	Admin	24.3	25.0	21.0	
130.6		130.2		127.3	3 127.47	118.7	?
				Mike Drury: Predicted	Ĩ		

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C20's / C50's

- Started 1L04 (C50-09) on 4/19
- Started 1L11 (C50-06) on 4/23
- Starting 2L04 (C50-03) on 4/24
- Completed Emax / 1 Hr Runs / FE on 6 Cavities in 1L04
- Completed Emax on 1st Cavity in 1L11





C20's / C50's

- 1L04 No indications so far of serious performance degradation
 - 2 / 6 Cavities Tested Running at Lower than Original Emax .
 - One limited by klystron Pwr.

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- One Quenching at lower gradient
 - -(12.2 MV/m as opposed to 14.0 MV/m)
- Field Emission Performance Comparable to Original Measurements



1L04 Performance So Far

1L04 (C50-09)						
Commission (09)		Commission (13)		Commission (09)	Commission (13)	
Emax		Emax		Emaxop (Single Cavity)	Emaxop (Single Cavity	
15.5	Pwr Limited	13.5	Pwr Limited	15.5	13.5	
19.3	Quench	15.0	Admin	18.2	15.0	
16.1	Quench	15.0	Admin	15.6	15.0	
13.9	Quench			13.5		
14.0	Quench	12.2	Quench	13.6	11.8	
19.8	Pwr Limited	15.0	Admin	19.3	15.0	
17.7	Quench	15.0	Admin	17.0	15.0	
18.6	Pwr Limited			17.6		
67.5		42.85		65.2	42.65	

Note: An Admin Limit of 15.0 MV/m has been instituted in the interests of time management. Gradients above 13.5 MV/m have not been utilized in these zones during normal operations



