CESR TA Machine Studies Task Overview

I. Experiment Description

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Experimental Topic	Electron Cloud Studies Setup		
Classification [*]	EC		
Coordinator/	Billing/Dugan	Billing, Dugan, Sonnad, Ramirez, Forster	
Experimenters			
Primary Goals	Test any modifications to measurement software		
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Description [†]	Setup		
	 Software testing of Swept frequency shaking (TUNE) Instability spectra (INST) Damping measurements (DAMP) Some of this can be done before we have stored beams. 		
Special Needs/Requests			
Prerequisites [‡]	Personnel	Description	
	Billing, Forster,	Establish stored beams (MREC)	
Time Requested [§]	No. Shifts	Principal Tasks	

* Machine Studies Classifications:

- EC Electron Cloud
- LET Optics Correction and Low Emittance Tuning
- xBSM x-ray Beam Size Monitor
- INST Instrumentation (BPM development, RFA development, other)
- MDEV Machine Development (includes injection configuration, injection tuning, custom orbit setup, instrumentation preparation, etc.)
- MREC Machine Startup (recovering conditions after down time)
- [†] Attach additional pages for experimental description if needed

[‡] Indicate other machine work that is required in preparation for this machine studies experiment.

4-6 hours	Ramirez, Billing	Test measurement software for 1, 2, 3 above

II. Machine Studies Assignments

Reserved for Project Management Team Use				
Topic ID Priority ^{**}				
Priority ^{**}				
Shift Assignments	Date	Shift		

Notes:

[§] Indicate the principal shift topics and estimated number of shifts required

- ^{*} Priority Scale:
 - 1. Critical results are necessary for preparation for subsequent down/run periods
 - 2. Very high results are strongly desired for achieving program milestones or in preparation for subsequent down/run periods
 - 3. High results are of immediate interest but not require
 - 4. Moderate results should be pursued at the first convenient opportunity
 - 5. Low results are not presently a high priority for either project milestones or planning