CesrTA Machine Studies Task Overview

LET		
JSh, MGB	JSh, MGB, DLR, MGS	
Study effects of disabling various components on beam stability (specifically, beam centroid motion at betatron tunes)		
Study effects of disabling various components on beam stability (specifically,		
	 beam centroid more systemal effects of disc. Correct optics skew quadrup Scan over ver The following BPMs will be back-to-back. list is signific being masked 1. Power of 2. Power of 3. Set DIM 4. Disconner Turn off RF power a. Power b. Redu Node off Node off Node off Pay a 11. Turn off 	

I. Experiment Description

* Machine Studies Classifications:

- EC Electron Cloud
- LET Optics Correction and Low Emittance Tuning
- IBS Intra-beam scattering studies
- 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 period or access)
- [†] Attach additional pages for experimental description if needed

Description [‡]	•		
(continued)			
~ • •			
Special	2.1GeV operating conditions, with damping wigglers		
Needs/Requests	(CTA_2085_DMTL_NORM), positrons.		
	This set of experiments should be performed early in the CesrTA run.		
Prerequisites [§]	Personnel	Description	
2.1GeV optics recovery	MJF/JSh	Recover optics in desired route; correct CESR optics	
Time Requested ^{**}	No. Shifts	Principal Tasks	
8hr	1	All items stated above	

[‡] Attach additional pages for experimental description if needed [§] Indicate other machine work that is required in preparation for this machine studies experiment. ^{**} Indicate the principal shift topics and estimated number of shifts required

II. Machine Studies Assignments

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

3. High – results are of immediate interest but not require

^{††} 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

^{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