Revised Run Plan for RCS for Two-Pass Running

Alan M. Nathan

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1 Kinematics

Label	θ_γ	D_γ	p_{hrs}	θ_{hrs}
2A/**endpt**	46.	12.0	1.711	33.974
2A/**offendpt**	46.	12.0	1.556	35.681
2B/**endpt**	56.	7.1	1.951	28.278
2B/**offendpt**	56.	7.1	1.779	29.823
2C/**endpt**	79.	5.2	2.322	19.136
2C/**offendpt**	79.	5.2	2.129	20.292

2 Runplan–30 hours total

NOTE: All mon runs utilize the full current, 500 A.

1. Optics studies of HRS with negative polarity. Bogdan and Nilanga will provide details.
2. Completion of Commissioning **(4 hours total)**
   (a) Beam studies (Doug), 2 hr
   (b) Rate/pedestal studies (Bogdan), 1 hr
   (c) Efficiency measurement with T7-only trigger (**norad-h**, **moff**, **endpt**, 10 μA), 1 hr
3. Kinematics 2A **(5 hours total)**
   (a) **optics**, **moff**, **endpt**, 50 μA, 15 min: pointing check of HRSafter HRSmoved
   (b) **norad-h**, **moff**, **endpt**, 10 μA, 30 min: ep and magnet calibration
   (c) **norad-h**, **mon**, **endpt**, 10 μA, 30 min: ep and magnet calibration
   (d) **rad-h**, **mon**, **offendpt**, 10 μA, 1 hr: RCS production
   (e) **rad-h**, **moff**, **offendpt**, 10 μA, 1 hr: RCS ep calibration
   (f) **optics**, **moff**, **offendpt**, 50 μA, 15 min: pointing check of HRSafter target moved
4. Acceptance scan **(5 hours)**
   Do a momentum scan of the HRS, each for 30 minutes at 10 μAusing **norad-h** and **moff** and at the fixed HRS angle of 33.974°. Start with optics target pointing check.
   (a) 1.814 Optics target, check HRS pointing.
   (b) 1.814 **norad-h**, **moff**

(c) 1.788
(d) 1.762
(e) 1.737
(f) 1.686
(g) 1.661
(h) 1.637
(i) 1.614

5. Post radiator study **(2 hours)**
   Return HRS to the 2A, **endpt** kinematics. Using a controlled access, insert the aluminum radiator. Run for 30 minutes with **norad-h**, **endpt**, **mon**.

6. Kinematics 2B, **7 hours total**, including detector move
   (a) Access to remove aluminum radiator and move calorimeter to 2B kinematics (2 hr)
   (b) **optics**, **moff**, **endpt**, 50 μA, 15 min (pointing check)
   (c) **norad-h**, **moff**, **endpt**, 10 μA, 30 min
   (d) **norad-h**, **mon**, **endpt**, 10 μA, 30 min
   (e) **rad-h**, **mon**, **offendpt**, 10 μA, 1 hr (RCS production)
   (f) **rad-h**, **moff**, **offendpt**, 10 μA, 1 hr (RCS background)
   (g) **optics**, **moff**, **offendpt**, 50 μA, 15 min (pointing check)

7. Kinematics 2C, **7 hours total**, including detector move
   (a) Access to move calorimeter to 2C kinematics (2 hr)
   (b) **optics**, **moff**, **endpt**, 50 μA, 15 min (pointing check)
   (c) **norad-h**, **moff**, **endpt**, 10 μA, 30 min
   (d) **norad-h**, **mon**, **endpt**, 10 μA, 30 min
   (e) **rad-h**, **mon**, **offendpt**, 10 μA, 1 hr (RCS production)
   (f) **rad-h**, **moff**, **offendpt**, 10 μA, 1 hr (RCS background)
   (g) **optics**, **moff**, **offendpt**, 50 μA, 15 min (pointing check)