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C-A OPERATIONS PROCEDURES MANUAL

11.4.4 Procedure for Exciting the STAR Magnet

Hand Processed Changes

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Approved: \_\_\_\_\_ ***Signature with Date on File***  
Collider-Accelerator Department Chairman Date

W. Christie

#### **11.4.4 Procedure for Exciting the STAR Magnet**

##### **1. Purpose**

The purpose of this procedure is to turn on and ramp the STAR Magnet to the desired field.

##### **2. Responsibilities**

The Star Magnet Operator is responsible for conducting the procedure.

##### **3. Prerequisites**

3.1 A STAR Magnet Coordinator shall have completed the requirements of [C-A OPM 11.4.2, "Procedure for Preparing the STAR Magnet for Operation."](#)

##### **4. Precautions**

None

##### **5. Procedure**

5.1 The STAR Magnet Operator shall call the main control room to ask for approval to excite or change the settings of the STAR magnet. If deemed necessary by MCR, changes will only be made between RHIC beam abort and refill.

5.2 The STAR Magnet Operator shall then use the STAR Magnet Control Page to set the magnetic field.

5.3 For references, the current set points in amps are shown in the table below. Also for reference, the level of power to run the STAR Magnet is approximately 4MW for full field, and 1MW for half field.

	Half Field	Full Field	Approx. PS Limit
Main PS	2250	4500	5000
Space trim PS's (2)	300	575	600
Pole Tip PS's (2)	665	1330	1400

##### **6. Documentation**

None

##### **7. References**

None

##### **8. Attachments**

None