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1 - OVERVIEW

This section describes the replacement procedures for the RFI module in Signa 1.0T systems with the 1.0T SRF Cabinet installed.

Parts mentioned here include:

GEMS	Item
Part Number	Description
2194013	RF Interface (RFI) Module

Tools Required

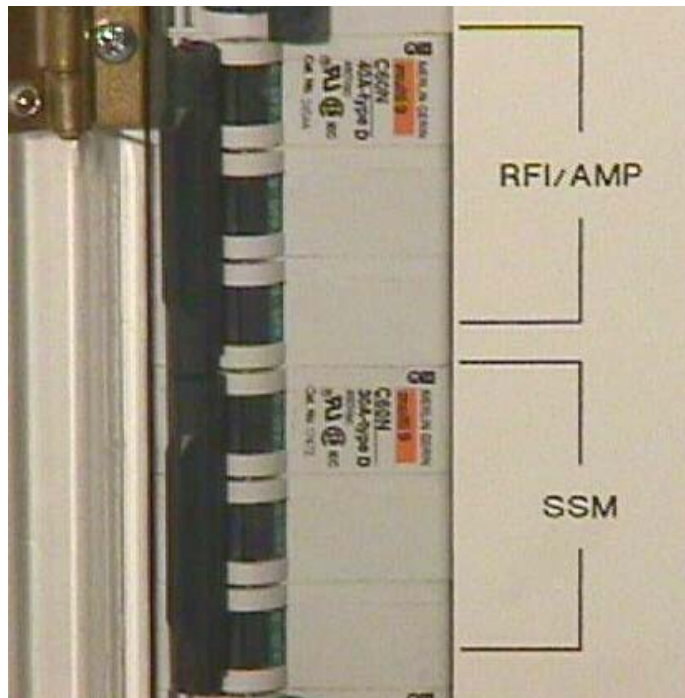
#1 Phillips Screwdriver

2 – SRF CABINET POWER LOCKOUT / TAGOUT PROCESS



POSSIBLE PERSONAL INJURY! AVOID SERIOUS INJURY OR DEATH BY ELECTROCUTION. BE SURE THAT THE PROPER LOCKOUT / TAGOUT PROCEDURES AS DESCRIBED IN THIS SECTION HAVE BEEN PERFORMED BEFORE WORKING ON ANY EQUIPMENT IN THE SRF CABINET.

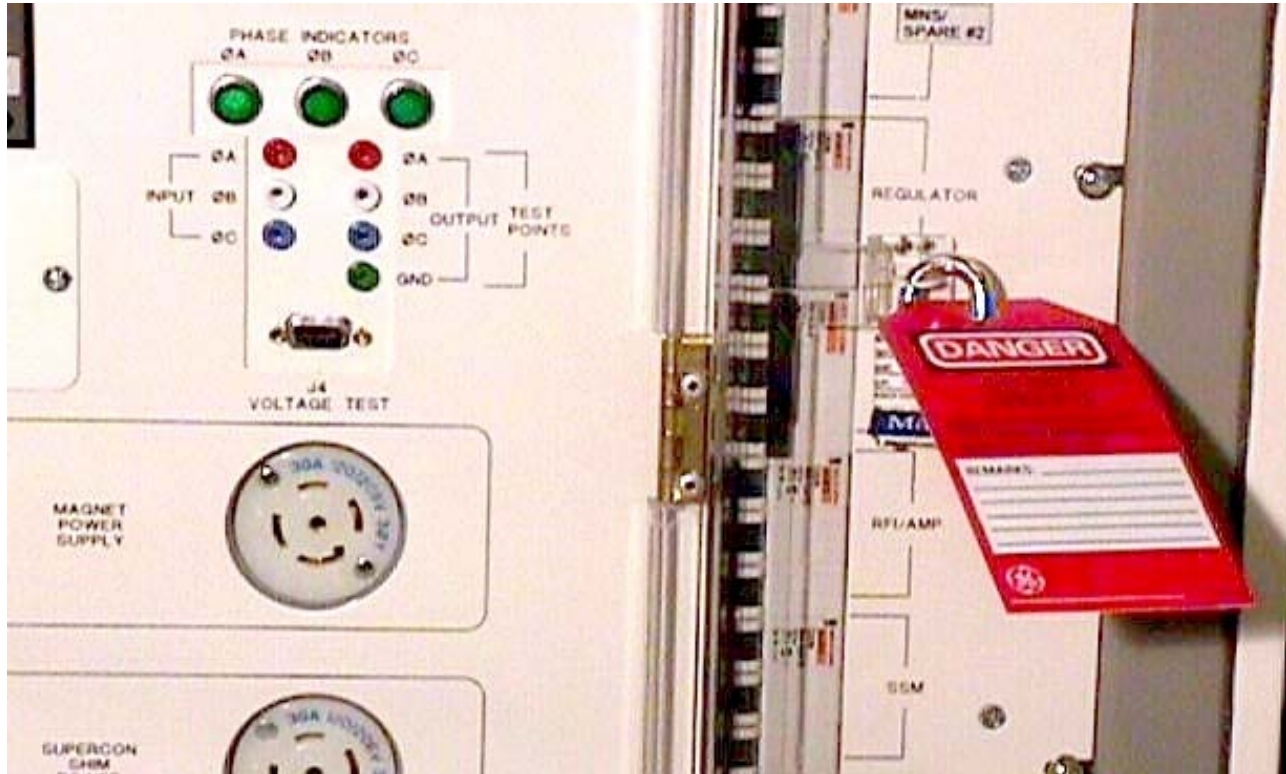
1. Remove the cover from the front of the ACGD cabinet.
2. Open Plexiglas door over the front of the PDU breakers and switch off the **RFI/AMP** and **SSM** breakers. See Illustration 2-1.



BREAKER IDENTIFICATION
ILLUSTRATION 2-1

2 – SRF CABINET POWER LOCKOUT AND TAGOUT (CONTINUED)

3. Close the plexi-glass door and lock and tag it out. See Illustration 2-2. (Refer to CD-ROM *Dir. 2187583-3 [or -2], MR Release Signa 5x/8x Service Methods, Renewal Parts and Service Tools, Safety, Section 6, OSHA LOCKOUT/TAGOUT REQUIREMENTS.*)



LOCKOUT AND TAGOUT OF BREAKERS
ILLUSTRATION 2-2

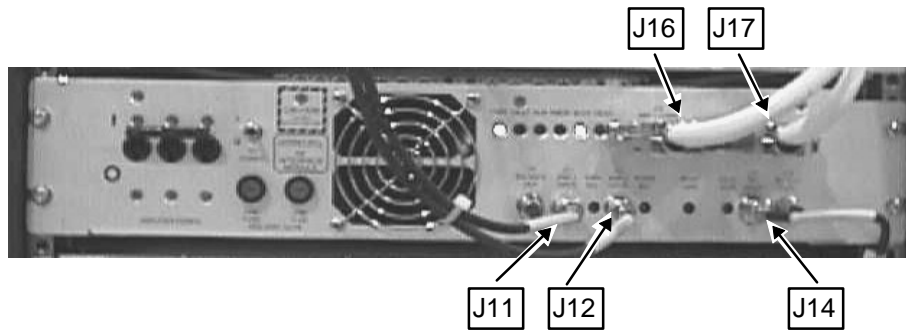
4. Remove the front cover from the SRF Cabinet.
5. Verify all LEDs are OFF (not illuminated) on front of SSM and RFI. Verify all LEDs are OFF (not illuminated) at the rear of the RF Amplifier Power Module.
6. Using an AC voltmeter (DVM), measure the input power leads on the rear of one of the RF Amplifier Modules from the rear (right side) of the SRF Cabinet.
 - Measure between T1 (black wire) and T2 (red wire); verify voltmeter measures 0 VAC.

3 - REMOVING RFI MODULE FROM CABINET



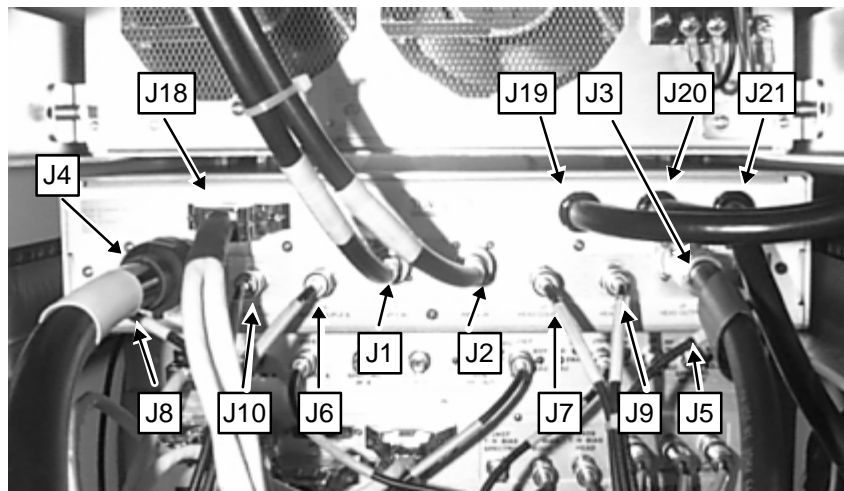
POSSIBLE PERSONAL INJURY! AVOID SERIOUS INJURY OR DEATH BY ELECTROCUTION. VERIFY THAT LOCKOUT / TAGOUT OF THE SSM AND RFI/AMP CIRCUIT BREAKERS ON THE FRONT OF THE PHOENIX PDU HAVE BEEN PROPERLY PERFORMED.

1. Perform Section 2 - **SRF CABINET POWER LOCKOUT AND TAGOUT** (Refer to 8.X Service Methods CD-ROM, Safety (SYSMSA2.DOC), Section 6, OSHA LOCKOUT/TAGOUT REQUIREMENTS.)
2. Remove the J11, J12, J16, J17, and J14 connections from front of the RFI Module. See Illustration 3-1.



RFI MODULE FRONT CONNECTOR LOCATIONS
ILLUSTRATION 3-1

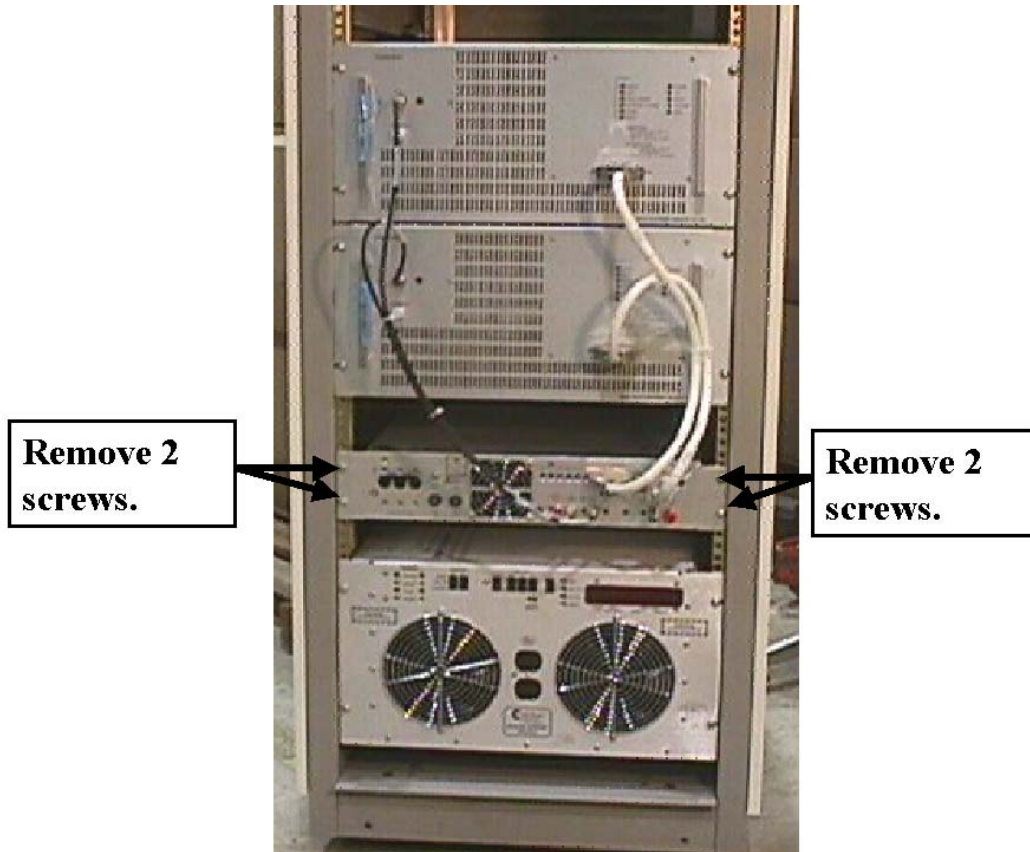
3. Remove the rear cabinet cover.
4. Remove connections J3, J4, J8, J18, J10, J6, J1, J2, J7, J9, J5, J19, J20, and J21 from rear of RFI Module. See Illustration 3-2.



RFI MODULE REAR CONNECTIONS
ILLUSTRATION 3-2

3 - REMOVING RFI MODULE FROM CABINET (CONTINUED)

5. Remove the four screws securing the RFI Module to the cabinet. See Illustration 3-3.

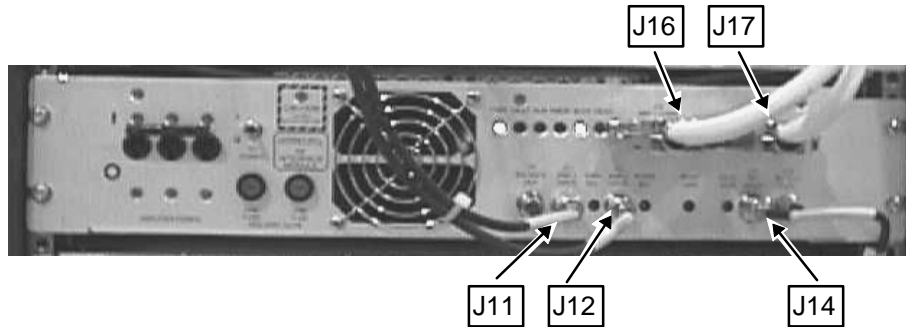


LOCATION OF SCREWS TO REMOVE RFI MODULE
ILLUSTRATION 3-3

6. Pull RFI Module out of cabinet.

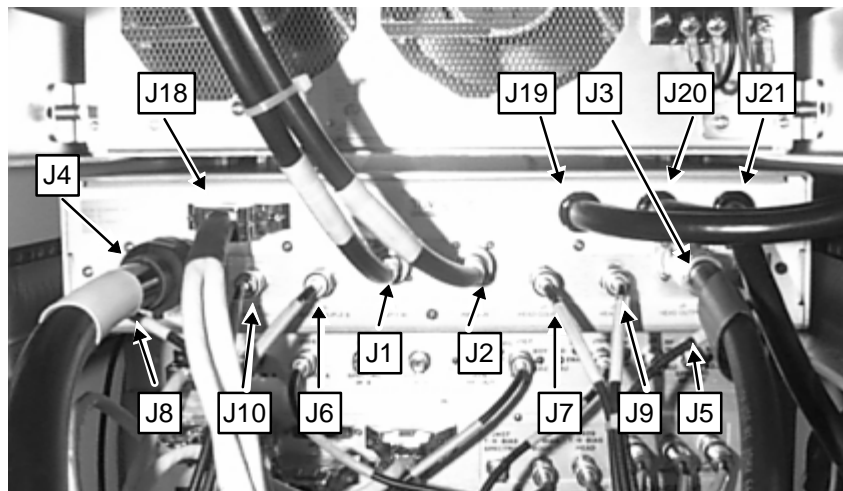
4 - RFI MODULE REPLACEMENT

1. Place new RFI Module on shelf in cabinet and slide module into cabinet.
2. Insert four screws into front of RFI Module to secure to cabinet.
3. Reconnect cables to J11, J12, J16, J17, and J14 to front of RFI Module. See Illustration 4-1.



RFI MODULE FRONT CONNECTOR LOCATIONS
ILLUSTRATION 4-1

4. Reconnect cables to J3, J4, J8, J18, J10, J6, J1, J2, J7, J9, J5, J19, J20, and J21 to rear of RFI Module. See Illustration 4-2.



RFI MODULE REAR CONNECTIONS
ILLUSTRATION 4-2

5. On the front of the RFI module place the Amplifier Power breaker and the RFI Power switch into the up (ON) position.
6. Remove lock and tag out from the transparent cover on the front of the Phoenix PDU.
 - a. Put the **SSM** circuit breaker on the front of the PDU in the up (ON) position.
 - b. Put the **RFI/AMP** circuit breaker on the front of the PDU in the up (ON) position.

4 - RFI MODULE REPLACEMENT (CONTINUED)

7. Calibrate the new RFI by performing the RFI calibration procedure described in **1.0T SRF Max Power RF Out Setup and Calibration** (RC6SCA3.DOC) on the 8.X Service Methods CDROM.
8. Successfully complete one head and body scan.
9. Replace the ACGD and SRF Cabinet front covers.
10. Close the SRF Cabinet rear door.

REVISION HISTORY

REV	DATE	AUTHOR	PRIMARY REASONS FOR CHANGE
0	DEC. 20, 2000	D. Thome	Initial Release
1	MAY 3, 2001	D. Thome	Added Lockout/Tagout information.
2	AUG. 15, 2001	D. Thome	Updated Lockout/Tagout. Changed Danger messages.
3	NOV. 14, 2005	Hari Sethuraman	Put a note after Section 3, Step 4
4	Dec 5, 2005	P. Kargard	Removed incorrect information.