

3T/7T MRI FACILITY

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| SOP Number: | 340.01 |
| Title | 7T MRI End of Session Protocol |

| Revision Chronology | | |
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Facility Manager Signature: _____

Date: _____

ROBARTS RESEARCH INSTITUTE
CENTRE FOR FUNCTIONAL AND METABOLIC MAPPING
3T/7T MRI FACILITY

Standard Operating Procedure #340.01

7T MRI End of Session Protocol

1. Introduction

- 1.1. Research involving Magnetic Resonance Imaging (MRI) at high magnetic field strengths presents unique hazards to both research subjects and individuals working within and around the MRI system. Consequently, the potential for serious personal injury is present due to the sheer magnitude and strength of the static magnetic field along with the immense flexibility of the research system and associated peripheral hardware.
- 1.2. Equipment in the 7T MRI Facility is sensitive to the order used in powering the system up and down. If the proper procedures are not followed, the equipment may be damaged or malfunction. Only authorized Level 2 MRI Personnel are permitted to perform these procedures.
- 1.3. Extensive training is required before performing any procedure on the 7T MRI system, see SOP#130: "MRI Personnel Training".

2. Session End

- 2.1. **Shut-down.** If you are the last operator of the day please ensure that the 7T system is placed into standby mode prior to leaving the facility. The following steps must be ensured:
 - 2.1.1. Place the RF safety system back into STBY mode by toggling the software switch on the power monitor.
 - 2.1.2. Push S403 on the D16 board of the Siemens GPA. Power stages will click off but take several minutes to fully discharge. Never go near gradient connections on the system – check with the Facility Manager.
 - 2.1.3. Switch the RRI shim PSU unit back into STBY mode.

3. Return Equipment

- 3.1. Please return all coils and equipment to their proper storage locations. It is good practice to wipe down coils and surfaces using the disinfectant wipes provided in the lab.
- 3.2. Turn off all peripheral devices used, e.g. the projector, coil and store all cables and cords and tidy the MRI and operators console room.
- 3.3. Lock the MRI room door and return the key to the wooden cabinet on the right side of the MRI window in the control room.
- 3.4. Place dirty laundry in the hamper, and if the laundry bag is full please place the bag in the hallway outside of the MRI Suite.