

York MRI Facility

Standard Operating Procedure #62-01

MRI Black/Brown Out

1. Introduction

- 1.1. Research involving Magnetic Resonance Imaging (MRI) at high magnetic field strengths present 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 size and strength of the static magnetic field along with the flexibility of the research system and associated peripheral hardware.
- 1.2. Working within and around the high field MRI requires in depth training on safety and Standard Operating Procedures, and documented proof of other necessary training. See SOP #30-01 "Safety Training Procedures".

2. Black/Brown Out Procedure

- 2.1. If power is lost to the 3T MRI scanner as a result of a black/brown out, none of the systems will be functional, and there is no back up power.
- 2.2. Remove the volunteer/patient from the scanner.
 - 2.2.1. Pull the Emergency Release located under the support frame of the bed to unlock the clutch, and pull the bed out manually.
 - 2.2.2. Communicate with the volunteer/patient to reassure them during the process.
- 2.3. Cancel the scan session currently in progress.
- 2.4. The compressor LED will turn red on the Siemens Alarm Panel and an alarm will sound while the power is off. The compressor will restart automatically when the power is resumed.
- 2.5. If the compressor fails to restart once the power has resumed, follow the procedure outlined in SOP #64-01 "Compressor Alarm Response".
- 2.6. Report the situation to the Facility Director or MRI Technologist.