

**Fermilab****Radiological Work Permit No. AD-22-110**

Area Name

**Main Injector MI-20 -- MI-62**

Permit Type General

Issue Date Feb 14, 2022

Issue Time 9:16 AM

Expiration Date Jan 31, 2023

**Description of Work**All work, tours, and inspections **EXCEPT FOR:**

1. Cutting, drilling, or grinding on radioactive material
2. Removal of materials from Magnet interface areas, or areas where dose rates are greater than 20 mR/hr at 1'. See "Special Requirements."
3. Areas reading greater than 100 mrem/hr at 1', or posted as High Radiation and/or Contamination Areas

**Access Type**

- Controlled Access**  
 Supervised Access  
 Open Access  
 Other - Secured Area  
 N/A

**Basic Work Area Conditions**

See Enclosure Hazards Specification Sheet

**Additional Work Area Conditions**

Contamination Areas: Levels of Be-7 may not be detectable with Frisker

**Area Posting**

Radiation Area: All Enclosure

High Radiation Area: MI 230-304 &amp; 307-313 aisle; MI40 Abs Rm

Contamination Area: MI 230-304 &amp; 307-313 aisle; MI40 Abs Rm

**Time Limits**

None

**Dose Limits**

100 mrem per week and 1500 mrem per year are administrative control limits

**Work Documents**

Job-specific HAs as applicable, see supervisor or DSO

**Dosimetry Requirements**

- None Required  
 Dosimetry Badge  
 Pocket Dosimeter  
 Ring Badge  
 Digidose  
 See Special Requirements

**Basic Training Requirements**Radiological Worker  
Controlled Access**Other Training Requirements****Portable Survey Instruments**

- None Required  
 LSM  
 Ludlum 14C  
 E140N/Portable Frisker  
 Minimeter  
 Teletector  
 Bicron Analyst  
 See Special Requirements

**Minimum Personal Protective Equipment**

- None Required  
 Gloves  
 Shoecovers  
 Labcoats  
 Coveralls  
 Hood  
 Eye Protection  
 Respiratory Protection  
 See attached instructions  
 See special requirements

**Additional Instructions**

- Notify ESH&Q Prior to Work  
 Rad Tech Coverage Required  
 Review Survey Map  
 Pre-Job Briefing  
 Personal Frisk on Exit  
 Survey & Label Materials on Exit  
 Post-Job De-Briefing  
 No Eating, Drinking, Smoking  
 See Special Requirements

**SPECIAL REQUIREMENTS**

*Prior RSO approval is required before working in a posted High Radiation or Contamination Area. If dose rates exceed 100mR/hr at 1', turn back, and notify the MCR. Contact MCR to request Rad Safety guidance before removing components from magnet interface areas or areas where dose rates exceed 20 mR/hr at 1'.*

***Double shoe covers and double gloves required in the posted Contamination Area. RSO approval required to walk/work in standing water. Work in standing water, rubber boots must also be worn. PPE worn inside of the posted Contamination Area must be discarded as rad waste. No carts through posted Contamination Area, see local postings. RCT coverage required for entry into MI-40 absorber room.***

Prepared By Maddie Schoell

RSO Authorization

Maddie Schoell