

Fermilab
Radiological Work Permit No. AD-1466

Area Name

Booster

Permit Type General

Issue Date 12 Jan 15

Issue Time 4:37 PM

Expiration Date 31 Jan 16

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

Basic Work Area Conditions

Radiation Area
Beam off access only
HV Present

Additional Work Area Conditions

One key per person
Two Person Rule

Area Posting

Radiation Area

Time Limits

None

Dose Limits

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

Work Documents

None

Dosimetry Requirements

- None required
- Dosimetry Badge
- Pocket Dosimeter
- Digidose
- Ring Badge
- See special requirements

Basic Training Requirements

Rad Worker
Controlled Access

Other Training Requirements

LOTO II required for all work on or near exposed electrical conductors. Requirements for tours and visitors are set on a case-by-case basis by the Area RSO.

Portable Survey Instruments

- None required
- LSM
- Ludlum 14C
- E140N
- Minimater
- Teletector
- Bicron Analyst
- Smartlon
- See special requirements

Personal Protective Equipment

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

Additional Instructions

- Notify Div/Sec ESH 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 500mR/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'.

Prepared By
Gary Lauten

RSO Authorization
Gary Lauten

CONTROLLED ACCESS PROTECTIVE CLOTHING REQUIREMENTS

<p>LEVEL 1: Personnel will just walk and look. No climbing, crawling, <u>leaning onto or close to</u>, kneeling, or working on potentially contaminated surfaces:</p>	<p>*Gloves and Shoe Covers</p>
<p>LEVEL 2: Personnel will perform <u>any</u> type of work, which includes leaning close to, leaning onto, or touching potentially contaminated surfaces. No climbing, crawling, or kneeling:</p>	<p>*Lab Coat, Shoe Covers, and Gloves *Also wear a hood if it is likely that your head or hair may touch a contaminated surface.</p>
<p>LEVEL 3: Personnel will perform <u>any</u> type of work that likely involves climbing, crawling, or kneeling</p>	<p>*Coveralls, Shoe Covers, and Gloves *Also wear a hood if it is likely that your head or hair may touch a contaminated surface.</p>
<p>LEVEL 4: Electrical work with potential arc-flash hazard or welding.</p>	<p>The standard PPE used for Radiological Contamination concerns is flammable. When job tasks require PPE for NFPA 70E or for welding, the PPE required for Arc-Flash protection or welding takes precedence over PPE for Radiological Contamination concerns. Tyvek suits, coveralls, gloves, and booties shall not be worn.</p>

