

## UNIVERSITY OF MISSOURI-ROLLA - NUCLEAR REACTOR

## STANDARD OPERATING PROCEDURES

S.O.P.: 605

REVISED: 5-9-84

PAGE 1 OF 2

TITLE: ENTRY INTO A HIGH RADIATION AREA

A. Purpose

To ensure that personnel do not enter into a High Radiation Area by accident or without permission. This is to prevent exposure of individuals to radiation greater than 100 mrem in one hour.

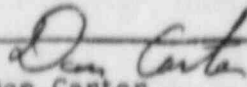
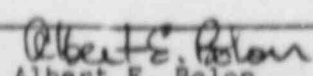
B. Precautions, Prerequisites, or Limitations

A High Radiation Area could exist in the lower level of the Reactor Building when the beam port or thermal column is open during reactor operation or when an exposed source will give a whole body exposure greater than 100 mrem in one hour.

C. Procedure for Entry

The Senior Operator on Duty shall be responsible for determining when a High Radiation Area exists and will follow the following procedures:

1. Before the status of an area is changed to a High Radiation Area the Senior Operator on Duty shall by personal survey, by himself or his designee, assure there is no one in the area that is to become a High Radiation Area. An announcement to that effect will be made on the building public address system.
2. The door leading to the lower level shall be locked, and access will be controlled by the SRO on Duty.
3. The Senior Operator on Duty shall assure the proper radiation sign is on the door.
4. The Senior Operator on Duty shall give permission for anyone to enter the area and shall be responsible that person is properly equipped with personnel monitoring devices.
5. An entry log shall be provided and the Senior Operator on Duty shall be responsible for each person entering to log in and out of the area and to record the appropriate time in and time out, as well as his/her name.

WRITTEN BY:  Dan CarterAPPROVED BY:  Albert E. Bolon8405220422 840517  
PDR ADOCK 05000123  
Q PDR

## UNIVERSITY OF MISSOURI-ROLLA - NUCLEAR REACTOR

## STANDARD OPERATING PROCEDURES

S.O.P.: 605

REVISED: 5-9-84

PAGE 2 OF 2

TITLE: ENTRY INTO A HIGH RADIATION AREA

6. When the door leading to the lower level is unlocked during the time a High Radiation Area exists, the Senior Operator on Duty shall designate a member of the Reactor Staff to visually monitor the door to assure no one enters the area without proper warning or protection.
7. After the High Radiation Area designation is rescinded the SRO on Duty, or his designee, shall ensure by personally monitoring the area that the radiation levels are less than 100 mr/hr. Then an announcement that the High Radiation Area has been rescinded will be made on the building public address system.

WRITTEN BY: *Dan Carter*  
Dan CarterAPPROVED BY: *Albert E. Bolon*  
Albert E. Bolon