

PROCEDURE 2.1 REV. 0

.0 TITLE

RADIATION CHECK

Written by:

*E. R. Mott*

Reviewed by:

*Paul H. St.*

Approved:

SAFETY COMMITTEE MEETING

*10/22/81*  
(DATE)

*Paul H. St.*

*Paul H. St.*

*E. R. Mott*

Controlled Copy # \_\_\_\_\_

8505150329 850329  
REG1 LIC30  
29-20777-01 PDR

- .1 OBJECTIVE: To give a detailed procedure for safely entering the Irradiator after the source is down.
- .2 INITIAL CONDITIONS:
  - .2.1 The Source is Down
  - .2.2 Door-In is Closed
  - .2.3 Door-Out is Closed
- .3 REQUIRED EQUIPMENT:
  - .3.1 Film Badge
  - .3.2 Hand Held Survey Meter
- .4 DETAILED PROCEDURE:
  - .4.1 Check the Operations Control CRT for the following:
    - .4.1.1 - Source Indicator Down
    - .4.1.2 - Source Arrow Down
  - .4.2 Read Labyrinth Area Radiation Monitors--if meters read >10mr/hr, contact the Radiation Safety Officer.
  - .4.3 Reset Labyrinth Area Radiation Monitors by pressing the reset buttons located below the Area Monitor Meters.
  - .4.4 Check the Monitor Control CRT. It should read "Radiation Negative" for both labyrinths.
  - .4.5 Enter your Operator's Access Code on the Operations Control Keyboard. This will cause the Door-In to open.



## PRECISION MATERIALS CORPORATION

- .4.6 Pick up the Hand Held Survey Meter and perform the following checks:

- .4.6.1 - Battery Check
- .4.6.2 - Response Check

- .4.7 Proceed down the Door-In labyrinth checking for radiation. If any reading is  $>10\text{mr/hr}$ , immediately leave the area via the Door-In.

NOTE: The Irradiator, in this condition, is considered an Unlocked High Radiation Area and must be guarded at all times, until the door is closed, to prevent unauthorized entry.

- .4.8 Immediately upon reaching the Inner Chamber, visually check the source position. If the source is visible, immediately leave the area and follow Procedure 4.3 "Suspected Overexposure".

- .4.9 Proceed to the Door-Out and open it by pressing the Door-Out button mounted on the wall.

- .4.10 Exit the Irradiator, go to the Control Room and return the survey meter to the holding rack.

NOTE: Insure the meter is turned off.

.5 FINAL CONDITIONS:

- .5.1 The Source is Down
- .5.2 The Door-In is Open
- .5.3 The Door-Out is Open