

FOR INFORMATION ONLY

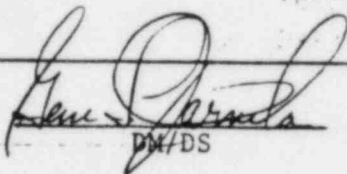
HOUSTON LIGHTING AND POWER COMPANY
SOUTH TEXAS PROJECT
ELECTRIC GENERATING STATION
PLANT PROCEDURES MANUAL

NON SAFETY-RELATED

Personnel Extremity Monitoring

PRP2-ZX-04
Rev. 0
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APPROVED:


DM/DS


DATE APPROVED

11-7-83
DATE EFFECTIVE

Field changes to this procedure must be approved by Radiological Services.

This procedure is not described in the FSAR.

1.0 Purpose and Scope

- 1.1 This procedure provides the guidelines for use of dosimeter devices used for Personnel Extremity Monitoring.
- 1.2 The procedure applies to all HL&P employees, contract personnel, and all other personnel who are likely to receive extremity exposure at the South Texas Project Electric Generating Station or any other HL&P facility.

2.0 Prerequisites

- 2.1 Extremity Monitoring should be used when the following conditions exist.
 - 2.1.1 When the extremities are likely to receive an exposure of five (5) times that of the whole body dose and the whole body is expected to receive at least 50 mr/hr while working on the job or task.
 - 2.1.2 When the extremities are required to be put inside a large internally contaminated component.
 - 2.1.3 When requirements are established by a specific RWP.
 - 2.1.4 When deemed necessary by Radiological Services personnel assigned to cover a specific job or task.

- 2.2 A supply of single and multiple chip TLD devices that may be designated as extremity monitoring devices when such devices are required by 2.1 above shall be maintained by the Radiological Services Division.
- 2.3 Calibrated TLD reading equipment necessary to read the extremity monitoring devices shall be maintained and operated by Radiological Services personnel.

3.0 Precautions

- 3.1 Extremity monitoring devices will be worn in addition to and not in place of the normal whole body monitoring devices.
- 3.2 Extremity monitoring devices shall only be worn for the job where they are designated and shall not be worn in other work areas.
- 3.3 Care must be taken when attaching extremity dosimeters so that they do not unduly interfere with normal work, and so that they remain in place at all times when worn.
- 3.4 Ensure that the location of each dosimeter is recorded to ensure that extremity doses are correctly documented.

4.0 Procedure

4.1 Preparations for Issuance of Extremity Monitoring Devices

- 4.1.1 A copy of each RWP that includes extremity monitoring requirements should be sent to the Radiological Services office at least eight (8) hours prior to starting the job.
- 4.1.2 Radiological Services should review the RWP to determine the number, location, and type of monitoring devices required.
 - 4.1.2.1 Radiological Services should prepare individual packets, each containing the extremity monitoring devices for one person plus the instructions on where and how to wear the devices.
 - 4.1.2.2 A minimum of 120 percent of the anticipated number of packets required for a RWP should be prepared and placed in a carrier/container.
 - 4.1.2.3 The carrier/container of packets should then be sent to the applicable control point in time for the shift on which the job is to be performed.

4.2 Issuance of Extremity Monitoring Devices

- 4.2.1 When an individual who is identified by RWP as needing extremity dosimetry reports to the control point to begin work, the monitor at the control point selects a packet from the carrier/container for the RWP and issues it to the individual.
 - 4.2.1.1 The monitor will instruct the individual to complete the Extremity Dosimetry Record (-1) and attach the dosimetry devices as indicated by the instructions on the form.
 - 4.2.1.2 The Extremity Dosimetry Record (-1) will be attached to the RWP and submitted with the dosimetry devices as indicated by the instructions, after entering self-reading dosimeter readings in applicable blanks and completing the form.

4.3 Retrieval of Extremity Monitoring Devices

- 4.3.1 The Control Point Monitor is responsible for verifying that all packets of extremity monitoring devices that have been issued are returned as specified by the instructions on the Extremity Dosimetry Record (-1).
- 4.3.2 At the time indicated by the instructions, the Control Point Monitor will return the packet and completed Extremity Dosimetry Record (-1) to the dosimetry office to be read and recorded.

4.4 Reading and Recording Results for Extremity Monitoring Devices

- 4.4.1 The extremity monitoring TLDs that have been returned shall be read in accordance with the TLD reader operating procedure.
- 4.4.2 The TLD results shall be entered on the Extremity Dosimetry Record (-1) and compared, where applicable, to self-reading dosimeter results.
- 4.4.3 When variations between TLD results and self-reading dosimeter results in excess of 50% are found, the Radiological Protection Supervisor shall be notified.
- 4.4.4 All dose information from the Extremity Dosimetry Record (-1) is inputted to the individual's computer dose record for extremity exposure.

5.0 Acceptance Criteria

None

6.0 Documentation

- 6.1 The Extremity Monitoring Record (-1) is routed to the Radiological Protection Supervisor for review and verification.
- 6.2 All dosimetry data is entered into the individuals permanent dose file by name, social security number, date, time, and RWP number.

7.0 References

- 7.1 PRP1-ZA-07 (Radiation Work Permit) (Punchlist 1.0)
- 7.2 PRP2-ZX-01 (Use of TLDs) (Punchlist 2.0)

8.0 Forms

- 8.1 Addendum 1 - Punchlist
- 8.2 Extremity Monitoring Record (-1)

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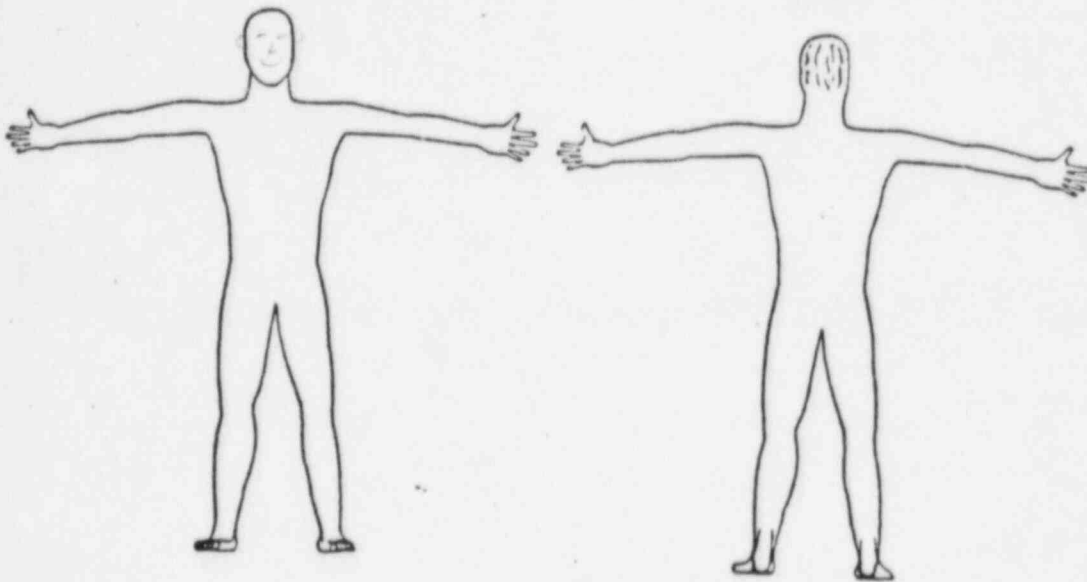
PACKET # _____

NAME _____ SOCIAL SECURITY # _____ SECURITY # _____
 ANNEALED _____ ISSUED _____ RWP # _____
 Time Date Time Date
 INSTRUCTIONS: _____

INSTRUCTIONS: _____

Dosimeter #	Reading Out	Reading In	Net Reading	Dosimeter #	Reading Out	Reading In	Net Reading

BACK



USE ASSIGNMENTS: _____

Input _____ Date _____ Review _____ Date _____

Completed monitoring forms shall be retained for the life of the plant.

ADDENDUM 1
PUNCHLIST

1.0 PRP1-ZA-07, Radiological Services Administrative procedure, identifies the responsibilities, establishes the requirements, and provides instructions for the preparation, use, and disposition of the radiation work permit. This procedure is not useable without PRP1-ZA-07.

2.0 PRP2-ZX-01, Dose Control procedure, provides instructions on how TLD's are issued, worn, and returned after use. This procedure is not useable without PRP2-ZX-01.