

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


FOR INFORMATION ONLY

SAFETY-RELATED

Use of Integrating Dosimeter Devices

PRF2-ZX-03
Rev. 0
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APPROVED:


DMS

NA
DATE APPROVED

4/3/84
DATE EFFECTIVE

This procedure is not described in the FSAR.
Field changes to this procedure must be approved by Radiological Services.

1.0 Purpose and Scope

- 1.1 This procedure provides the instructions and controls for the use of all integrating dosimeter devices, except the thermoluminescent dosimeters (TLD's) and the Self-reading Pocket Dosimeter, which are covered in separate procedures.
- 1.2 This procedure is applicable to all HL&P employees and to all HL&P facilities where personnel radiation exposure is or could be received, or to HL&P employees who visit other companies facilities where personnel radiation exposures are suspected.

2.0 Prerequisites

- 2.1 All personnel who have not completed General Employee Training for the South Texas Project Electric Generating Station or equivalent training will require training in the use and the limitation of a specific device selected.
- 2.2 Only devices which have a current calibration certification shall be used.

3.0 Precautions

- 3.1 All devices that are battery operated shall be battery checked prior to use.
- 3.2 When traveling with these devices, care must be taken to avoid having them exposed to X-radiation with baggage during air travel.

3.3 All requirements regarding access to restricted areas shall apply while working in posted areas.

3.4 Every effort shall be made to maintain personnel exposure as low as reasonably achievable.

4.0 Procedure

4.1 All special or non-routine integrating dosimeter devices shall be issued from one of the following locations:

4.1.1 Radiological Services Division Office in the Administration Building at the STPEGS.

4.1.2 Radiological Services Laboratory facility at the EDC in Houston.

4.2 The Radiological Services Division is responsible for certifying the calibration of all integrating dosimeter devices and for the maintenance and replacement when required.

4.3 Use of special integrating dosimeter devices at HL&P facilities, for detection of exposure from HL&P licensed sources.

4.3.1 When an RWP or procedure identifies the requirement for special integrating dosimeter devices, such as the Dositec DOS501, the non self-reading dosimeter, or any dosimeter device other than the standard Personnel TLD or the self-reading pocket dosimeter, Radiological Services will issue the type of device available.

4.3.2 Radiological Services will issue the selected dosimeter device and an Individual Dose Record Card, (PGP3-ZR-09-01) at the designated issue location. Radiological Services personnel shall also ensure of the following:

4.3.2.1 That the individual(s) issued on Individual Dose Record Card (PGP3-ZR-09--1) print his/her name and social security number on the card.

4.3.2.2 If the device is battery operated, that a battery test be conducted.

4.3.2.3 Verify that the instrument has been zeroed and that the individual(s) record the initial reading in the "IN" column of the dose section of the Individual Dose Record Card (PGP3-ZR-09-01), enter date, time in, and RWP number or job description. If not entering STPEGS Unit 1 or 2, leave the Unit column blank.

- 4.3.3 When the individual(s) has completed the job or work for a shift, Radiological Services shall ensure the instrument is returned to the issue location.
 - 4.3.3.1 Radiological Services personnel will read the instrument.
 - 4.3.3.2 Radiological Services will ensure completion of the Individual Dose Record Card (PGP3-ZR-09-01) for that entry.
 - 4.3.3.3 Radiological Services will zero the dosimeter devices after their return.
- 4.4 The use of special integrating dosimeter devices at other facilities is for the detection of exposure from sources which are not licensed by HL&P. Since HL&P is not responsible for reporting this exposure, the Individual Dose Record Card (PGP3-ZR-09-01) must be marked "Do Not Report" by Radiological Services. The purpose for HL&P issuing dosimetry is for the information of the individual visiting the other facility only.
 - 4.4.1 When a trip to some other facility, such as a vendor inspection trip, is planned and a special dosimeter is desired, the planning department should:
 - 4.4.1.1 Notify the applicable Radiological Services office at least two work days prior to departure time. They should request the number of the dosimeters required and the names of the individuals who will be using them.
 - 4.4.1.2 On the day of departure, pick up the dosimeters at the applicable Radiological Services office. If the departure time is early in the morning or on a weekend, then they should be picked up by 4:00 PM the day before or the Friday before.
 - 4.4.1.3 Upon arrival at the other facility, fill out the applicable portion of the Individual Dose Record Card (PGP3-ZR-09-01) with the entry information.
 - 4.4.1.4 When the visit is completed, fill out the rest of the card and bring it back to the Radiological Services office it was picked up from.
 - 4.4.1.5 Radiological Services will review the Individual Dose Record Card (PGP3-ZR-09-01) and file the card until a dosimetry report of exposure is

received from the other facility. The cognizant Radiological Services Supervisor shall evaluate the amount of exposure indicated on the preliminary report from the other facility, and update the individual's Personal Exposure Record according to the preliminary report.

- 4.4.1.6 After a Termination Report is received from the other facility the individual's Personal Exposure Record shall be updated by Radiological Services personnel and the Individual Dose Record Card (PGP3-ZR-09-01) discarded at that time.

5.0 Acceptance Criteria

None

6.0 Documentation

6.1 All Individual Dose Record Cards (PGP3-ZR-09-01) are reviewed by the Dosimetry Supervisor. The cards used at STPEGS are filed and retained indefinitely.

6.2 All termination reports are retained indefinitely.

7.0 References

None

8.0 Support Documents

None