

DETROIT EDISON - FERMI 2
AUTOMATED RECORD MANAGEMENT
DISTRIBUTION CONTROL LIST
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A045

COMPUTER-BASED OFFSITE DOSE ASSESSMENT - AIRBORNE RELEASE

Revision Summary

- 1) Changed "whole body gamma" to "TEDE" to reflect current terminology.
- 2) Added "unplanned/abnormal" to text relating to airborne releases.
- 3) Deleted note after step 3.2.
- 4) Added "general information" to reference the ODCM regarding liquid radioactive releases.
- 5) Clarified actions in step 5.1 regarding autodose initiation.
- 6) Reworded step 8.1 regarding records retention.
- 7) Made editorial changes throughout text.
- 8) This is a total rewrite. No revision bars have been used.

Implementation Plan

- 1) This procedure goes into effect upon issuance.

Attachments - None

Enclosures - None

CONTROLLED

<i>Information and Procedures</i>				
DSN EP-542	Revision 5	DCR # 00-1481	DTC TPEPT	File # 1703.10
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1.0 PURPOSE

To prescribe the method by which dose assessment personnel use computer-based programs to project offsite Total Effective Dose Equivalent (TEDE) and thyroid dose and dose rates resulting from an unplanned/abnormal airborne release.

2.0 USE REFERENCES

- 2.1 ERIS Dose Assessment User's Manual
- 2.2 PC/Radose User's Guide

3.0 ENTRY CONDITIONS

- 3.1 Potential exists for an abnormal/unplanned release to the environment

or

- 3.2 Actual abnormal/unplanned release has occurred or is occurring through one of the plant effluent stacks.

4.0 GENERAL INFORMATION

- 4.1 The Radose Program of the Emergency Response Information System (ERIS) is the primary method of performing offsite dose calculations. The backup method of performing offsite dose calculations is provided by a microcomputer program on a Personal Computer (PC).
- 4.2 Radioactive material released in the plant is transported by the plant ventilation system to the environment through the effluent monitors on the Reactor Building, Radwaste Building, Turbine Building, or SGTS stacks.
- 4.3 The Offsite Dose Calculation Manual (ODCM) describes the calculational method for determining dose from a liquid radioactive release.

5.0 IMMEDIATE ACTIONS

- 5.1 Initiate the automatic mode (Autodose) of the ERIS Dose Assessment Program in accordance with Enclosure A of the ERIS Dose Assessment User's Manual.
- 5.2 If ERIS is not available, perform dose assessment calculations using the appropriate chapter of the PC/Radose User's Guide. Chapter 2 of the manual provides a program introduction for the novice or infrequent user.

6.0 PROCEDURE – None

7.0 FOLLOW-UP ACTIONS

- 7.1 Continue to calculate TEDE and thyroid dose and dose rates until directed to terminate dose assessment.

8.0 RECORDS

- 8.1 All documentation generated as part of performing dose assessments should be reviewed by the Radiation Protection Advisor/Radiation Protection Coordinator then forwarded to the Supervisor, RERP, for retention.

END