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1.0 Purpose

- 1.1 Provide guidelines for reviewing and processing the Radioactive Effluent Release Reports
- 1.2 Maintain consistency between the three sites' Offsite Dose Calculation Manuals (ODCM) and describe the interfaces and procedure to make changes to the ODCM's

2.0 Applicability

This procedure applies to Environmental Affairs, Nuclear Licensing, corporate Document Services, Joseph M. Farley Nuclear Plant, Edwin I. Hatch Nuclear Plant, and Alvin W. Vogtle Electric Generating Plant personnel involved in the processing of the above referenced documents up to and including their submittal to Nuclear Regulatory Commission (NRC).

3.0 References

3.1 Radioactive Effluent Release Report

- 3.1.1 NRC Regulatory Guide 1.21, "Measuring, Evaluating, and Reporting Radioactivity in Solid Waste and Releases of Radioactive Materials in Liquid and Gaseous Effluents from Light-Water-Cooled Nuclear Power Plants," Revision 1, June 1974.
- 3.1.2 FNP: Technical Specification (TS) 5.6.3 and ODCM 7.2.
- 3.1.3 HNP: TS 5.6.3; and ODCM 7.2.
- 3.1.4 VEGP: TS 5.6.3; and ODCM 7.2.

3.2 ODCM (partial list)

- 3.2.1 NRC Regulatory Guide 1.109
- 3.2.2 NRC Regulatory Guide 1.111
- 3.2.3 NRC Regulatory Guide 1.113
- 3.2.4 NUREG-0133
- 3.2.5 NUREG-1301
- 3.2.6 NUREG/CR-4007
- 3.2.7 NUREG/CR-3332
- 3.2.8 Technical Specifications
- 3.2.9 Final Safety Analysis Report

3.3 Historical copies of past Reports from 2002 forward can be found on the Corporate SyncPower database by performing the following search:

- Corporate SyncPower database
- Documents icon (takes user to DocManager screen)
- In "Find" drop down menu select "Sync Record"
- Change "Object Name" to "Title"
- Change "begins with" to "contains"
- In the next box type (in all capital letters) "Radioactive Effluent Release Report"
- Press RUN
- Look for PDF formatted files



4.0 Definitions

- 4.1 Meteorological Data Summary – A presentation of annual site-specific meteorological data including as a minimum: joint frequency distribution tables of wind speed versus wind direction for each atmospheric stability class, by quarter and by year; wind roses by quarter and by year; and the percentage of data recovery for each measured meteorological parameter for the year.
- 4.2 Offsite Dose Calculation Manual (ODCM) – A plant-specific document that contains the methodology and parameters used in the calculation of offsite doses resulting from radioactive gaseous and liquid effluents, in the calculation of gaseous and liquid effluent monitoring Alarm/Trip set points, and in the conduct of the Radiological Environmental Monitoring Program. This document also contains the Radioactive Effluent Controls and Radiological Environmental Monitoring Programs required by TS 5.5.4. Also contained in this document are descriptions of the information that should be included in the Annual Radiological Environmental Operating Report and the Radioactive Effluent Release Report required by TS 5.6.2 and 5.6.3.

5.0 Responsibilities

5.1 Radioactive Effluent Release Report

5.1.1 Plant Chemistry Department

The plant Chemistry department is responsible for data collection and assimilation and for generation of the report including any required attachments. In addition to the generation of the report, the department will review site meteorological data, confirming accuracy and completeness. The department will then submit the report and the annual meteorological data summary to Environmental Affairs

5.1.2 Environmental Affairs

Environmental Affairs is responsible for reviewing the Radioactive Effluent Release Report and the site meteorological data summary, working with site personnel to resolve any problems that are identified, and submitting the Radioactive Effluent Release Report to Nuclear Licensing.

5.1.3 Nuclear Licensing

Nuclear Licensing is responsible for obtaining executive review and approval and for distribution of the Radioactive Effluent Release Report including submission to the NRC.

5.2 ODCM

5.2.1 Plant Chemistry Department

The plant Chemistry department is responsible for initiating changes as required to the ODCM and coordinating review or workup of the changes through Environmental Affairs prior to obtaining the necessary plant management review

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including PRB approval. In emergency or urgent situations, ODCM changes may be completed and approved on site prior to review by Environmental Affairs. These changes will then be sent to Environmental Affairs for consistency review and processing.

5.2.2 Environmental Affairs

Environmental Affairs is responsible for initiating, reviewing, processing changes, and coordinating plant Chemistry department review or workup to the ODCM as requested by the plant or corporate plant support or other initiating event.

5.2.3 Nuclear Licensing

Nuclear Licensing is responsible for the submission of the revised ODCM to the NRC as an attachment to the plant's Radioactive Effluent Release Report.

5.2.4 Document Services

After receiving an approved ODCM change from Environmental Affairs, Document Services is responsible for making electronic changes, posting to SyncPower, and for distribution of the ODCM change to copy holders of the ODCM as required.

6.0 Procedure

6.1 Radioactive Effluent Release Report Processing and Review

This section is to provide general guidelines for processing, review, approval, and submittal of the Radioactive Effluent Release Report.

6.1.1 Plant Chemistry Department

- 6.1.1.1 Collect and assimilate the data and tables for insertion into the report, including the solid radioactive waste data from the Health Physics department.
- 6.1.1.2 Perform the initial report review.
- 6.1.1.3 Transmit to Environmental Affairs for comments and/or corrections.
- 6.1.1.4 Incorporate resolution comments/corrections and redistribute.
- 6.1.1.5 Obtain plant management approval.
- 6.1.1.6 Transmit the final report to Environmental Affairs by April 15 (Note: the final version of the report will be clearly and uniquely identified as the final version).
- 6.1.1.7 If the ODCM was revised during the year, a copy of the revised ODCM must accompany the final report.



6.1.1.8 Review the site meteorological report and send a copy to Environmental Affairs for review.

6.1.2 Environmental Affairs

6.1.2.1 Review the Radioactive Effluent Release Report including each revised version.

6.1.2.2 Coordinate comments with plant Chemistry personnel.

6.1.2.3 Review any required attachment to the final report (e.g. revised ODCM) and ensure that such attachments are included with the final report.

6.1.2.4 Transmit the final report to Nuclear Licensing by April 20 of each year for executive review and submittal to the NRC.

6.1.2.5 Review the site annual meteorological report to resolve any problems that are identified.

6.1.2.6 Upon resolution of meteorological report issues, inform the plant Chemistry personnel that the final meteorological report may be filed with site document management in lieu of being sent with the Radioactive Effluent Release Report to the NRC.

6.1.3 Nuclear Licensing

6.1.3.1 Prepare the NRC transmittal letter.

6.1.3.2 Route the final report to the appropriate corporate plant support personnel for review and routing slip signature.

6.1.3.3 Obtain an SNC executive signature for the NRC cover letter.

6.1.3.4 Transmit the letter and final report to the NRC by May 1 of each year.

6.1.3.5 If changes were made to the ODCM during the year, a copy of the changed ODCM revision must accompany the report to the NRC.

6.1.3.6 Distribute copies of the final report to the distribution list (ODCM attachments are only needed for the NRC and Document Services copies.)

6.1.3.7 The annual meteorological report may be stored onsite, available for NRC review, in lieu of being submitted with the report.

6.2 ODCM Revision Control

The ODCM's for Farley, Hatch, and Vogtle have been developed concurrently to achieve uniformity. The expectation is to maintain the existing consistency between the ODCMs.

6.2.1 Plant Chemistry Department



- 6.2.1.1 Initiate ODCM changes as required providing a description of the requested change and/or appropriate page markups to Environmental Affairs.
- 6.2.1.2 Review ODCM change packages from Environmental Affairs and provide comments to Environmental Affairs.
- 6.2.1.3 Provide support for necessary management and PRB review and approval.
- 6.2.1.4 Emergency or urgent ODCM changes may be accomplished onsite using markups or locally prepared changes in accordance with licensing document change procedures.
- The changes have to be approved by appropriate plant management prior to implementation.
 - Transmit the change package to Environmental Affairs for consistency review and processing.
- 6.2.1.5 Transmit a copy of the revised ODCM along with the submittal of the final draft of the Radioactive Effluent Release Report to Environmental Affairs.
- 6.2.2 Environmental Affairs
- 6.2.2.1 Initiate and process changes to the ODCM as appropriate.
- 6.2.2.2 The process shall include:
- An ODCM markup for the requested changes
 - Writing change descriptions to facilitate routing and approval
 - Initiating and writing an Applicability Determination, an LDCR and if required, a 10CFR50.59 Safety Evaluation
 - Initiating coincident changes for plant sites other than the initiator
- 6.2.2.3 If the ODCM change and paperwork has already been done by the site, review all changes to the ODCM for regulatory compliance and to insure consistency between projects.
- 6.2.2.4 Transmit the approved ODCM change to corporate Document Services for electronic file updating, copying, and distribution.
- 6.2.2.5 Ensure a copy of the revised ODCM is attached to the Radioactive Effluent Release Report being submitted by Nuclear Licensing to the NRC for the year in which it was changed.
- 6.2.3 Document Services
- Upon receiving an approved ODCM change from Environmental Affairs:
- 6.2.3.1 Make the approved changes to the electronic copy of the ODCM.
- 6.2.3.2 Post the revised ODCM to SyncPower



6.2.3.3 Make copies of the changes and distribute to copy holders of the ODCM as required.

7.0 Records

All pertinent ODCM change documentation such as comments, analysis, LDCR, 50.59 evaluations, etc. will be included with the package for record storage as a QA record. All QA records are maintained by the appropriate SNC Plant / Corporate Plant Support group.

8.0 Commitments

8.1 Radioactive Effluent Release Report

8.1.1 Regulatory Guide 1.21 commitment as described in the NRC Regulatory Guide compliance section of each plant's Final Safety Analysis Report