OPERATING LICENSE AND TECHNICAL SPECIFICATIONS Ford Nuclear Reactor Docket 50-2, License R-28 Amendment 40:080193

- Average concentration of gaseous effluents released during normal steady state operation averaged over one year.
 - Maximum instantaneous concentration of noble gas radionuclides released during special operations, tests, or experiments.
- 4. Percent of diluted, 10CFR20, 40 Appendix B, Table 2, Column 1, air effluent concentration limit.
- b. Iodine Releases

(Required if iodine-131 is <u>identified</u> in primary coolant samples, or if fueled experiments are conducted at the facility.)

- Total iodine radioactivity in curies released by isotope, based on representative isotopic analyses.
- 2. Percent of diluted, 10CFR20, [40 Appendix B, Table 2, Column 1, air effluent concentration limit.
- c. Particulate Releases
 - Total particulate gross beta and |40 gamma radioactivity released in curies excluding background radioactivity.
 - Gross alpha radioactivity released in curies excluding background radioactivity. (Required if the operational or experimental program <u>could</u> result in the release of alpha emitters.)
 - Total gross radioactivity in curies of nuclides with half lives greater than eight days.
 - Percent of diluted, 10CFR20, Appendix B, Table 2, Column 1, air effluent concentration limit, for particulate radioactivity with half lives greater than eight days.

9403010200 940202 PDR WASTE WM-3 PDR

Page 42

40

140

OPERATING LICENSE AND TECHNICAL SPECIFICATIONS Ford Nuclear Reactor Docket 50-2, License R-28 Amendment 40:080193

2. Liquid Effluents

- . Total gross beta and gamma radioactivity released in curies excluding tritium and average concentration released to unrestricted areas or sanitary sewer [40 averaged over period of release.
- . The maximum concentration of beta and gamma radioactivity released to unrestricted areas.
 - Total alpha radioactivi.y in curies released and average concentration released to unrestricted areas [40 averaged over the period of release. (Required if the operational or experimental program <u>could</u> result in the release of alpha emitters.)
- . Total volume in al of liquid waste released.
- Total volume in ml of water used to dilute the liquid waste during the period of release prior to release from the building to the sanitary sewer system.
- . Total radioactivity in curies, and concentration averaged over the period of release by nuclide released, based on representative isotopic analyses performed for any release from a waste storage tank.
- Percent of diluted, 10CFR20, 40 Appendix B, Table 3, Releases to Sewers
- g. Environmental Monitoring
 - For each medium sampled:
 - Number of sampling locations and a description of their location relative to the reactor.
 - 2. Total number of samples.
 - Number of locations at which levels are found to be significantly higher than the remaining locations.

OPERATING LICENSE AND TECHNICAL SPECIFICATIONS Ford Nuclear Reactor Docket 50-2, License R-28 Amendment 40:080193

- Average annual concentrations or levels of [40 radiation for the sampling point with the highest average concentration or level and the location of that point with respect to the site.
- 5. The maximum cumulative radiation dose which could have been received by an individual continuously present in an unrestricted area during reactor operation from:

a. Direct radiation and gaseous effluent;

b. Liquid effluent.

- 6. If levels of radioactive materials in environmental media, as determined by an environmental monitoring program, indicate the likelihood of public intakes in excess of 10% of those that could result from [40 continuous exposure to the concentration values listed in 10CFR20, Appendix B, Table 2, Columns 1 and 2, estimates of [40 the likely resultant exposure to individuals and to population groups and assumptions upon which estimates are based.
- If significant variations of off site environmental concentrations with time are observed, correlation of these results with effluent release shall be provided.
- h. Occupational Personnel Radiation Exposure

A summary of annual whole body radiation [3 exposures greater than 500 mrem (50 mrem for persons under 18 years of age) received during the reporting period by facility personnel including faculty, students, or experimenters.

. Non-Routine Reports

. Reportable Occurrence Reports

In the event of a reportable occurrence 38 as defined in section 1.0, notification 38 shall be made within 24 hours by telephone and FAX to the Reactor Project 38 Manager, Headquarters, U.S. Nuclear Regulatory Commission and to the Administrator, Region III, followed by a written report within 14 days to the U.S. Nuclear Regulatory Commission, Attn: Document Control Desk, Washington, D. C. 20555, and to the Administrator, Region III. FAX 38