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William H. Regan, Jr., Chief, Environmental Projects Branch #4, L

MONTICELLO ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM

F. Congel, RA-L, has reviewed the changes in the Radiological Environmental Monitoring Technical Specifications submitted by the Northern States Power Company for the Monticello Plant. The proposed changes are an improvement over the original specifications and should be accepted as submitted.

You also requested in your memo of December 26, 1973, that the specifications be reviewed to ensure consistency with applicable guidelines for the pending FTOL. Although no guidelines regarding technical specifications for FTOL's have yet been approved, the latest Appendix I draft states that all light water cooled reactors must consorm with the latest emission requirements within twenty-four months after formal issuance of the document. Since the augmented radwaste system for Monticello is due for completion by Summer, it would appear that their technical specifications could now be rewritten in the format used for new OL's and implemented by Fall. Thus, the proposed technical specifications should be modified by the applicant to include the reporting requirements resulting from the implementation of Appendix I. An example of these reporting requirements is attached. It is assumed that ETSB-L will also require similarly revised effluent monitorigg technical specifications.

Original signed by Jacob Kastner

Jacob Kastner, Chief
Radiological Assessment Branch
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DATE	2/12/74	2/12/74				

malfunction of an automatic sampler. If the latter, corrective actions shall be completed prior to the end of the next sampling period. All deviations from the sampling schedule shall be described in the semiannual reports.

Reporting Requirements

A. Routine Reports

1. The semi-annual report, specified in Section 5, shall contain:

   a. A narrative summary of the results of off-site airborne environmental surveys performed during the report period.

   b. For each medium sampled during the year, a list of the sampling locations, the total number of samples, and the highest, lowest, and the average concentrations for the highest location.

2. In the event that some results are not available within the 60 day period, the report should be submitted noting and explaining the reasons for the missing results. The missing data shall be submitted as soon as possible in a supplementary report.

3. If statistically significant variations of offsite environmental radionuclide concentrations with time are observed, a comparison of these results with effluent releases shall be provided.

4. Individual samples which show higher than normal levels (25% above background for external dose, or twice background for radionuclide content) will be noted in the report.

B. Non-Routine Reports

1.b. If a measured level of radioactivity in critical pathway environmental media samples indicates that the resultant annual dose to an individual from these levels could equal or exceed 4 times the design objective, a determination will

be made as to whether or not such levels of radioactivity are attributable to plant operation. If attributable to plant operation, a report will be made to the Regional Regulatory Operations Office within 24 hours and a plan will be submitted within one week advising the AEC of the proposed action to ensure the plant related annual doses will be within the design objective. If not attributable to plant operation, the rationale for this conclusion shall be included in the semiannual report.

2.6. If samples of critical pathway environmental media collected over a calendar quarter show total levels of radioactivity that could result in accumulated plant related doses to an individual for that quarter of 1/2 the annual design objective, or for 2 consecutive quarters of 3/4 the annual design objective, a determination will be made as to whether or not such levels of radioactivity are attributable to plant operation. If attributable to plant operation, the results shall be reported and a plan submitted and implemented within 30 days to limit conditions so that the annual dose to an individual will not exceed the design objective. If not attributable to plant operation, the rationale for this conclusion shall be included in the semiannual report.

Basis

The survey program is designed to allow the licensee to:

1. Assure compliance with Technical Specifications and Federal Regulations by measurement of radiation levels in samples of selected media.

2. Differentiate releases of plant origin from natural or other sources of radiation in the environment. This is accomplished by used a reference (background) ring of sampling stations and an indicator (site vicinity) ring of sampling stations. Calculations are then made which show whether or not a statistical difference exists between the levels of radioactivity detected in the site vicinity and those detected remotely from the site.