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MURRAY R. EDELMAN
VICE PRESIDENT
NUCLEAR

September 19, 1985
PY-CEI/NRR-0350 L

Mr. B. J. Youngblood, Chief
Licensing Branch No. 1
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Perry Nuclear Power Plant
Docket Nos. 50-440; 50-441
Offsite Dose Calculation Manual

Dear Mr. Youngblood:

This letter provides supplemental information to our July 17, 1985 response to your request for additional information concerning the Perry Offsite Dose Calculation Manual (ODCM) dated May 20, 1985. With respect to comment 2 of your letter, the Emergency Service Water (ESW) radiation monitors will be set to alarm at three (3) times the measured background level.

Comment 4 concerns our utilization of flow rate versus radiation monitors to ensure liquid effluents remain within 10CFR20 limits. Flow monitors will be equipped with manually adjustable alarms which alarm in the Radwaste Control Room. The flow monitors will be set to alarm at 1.25 f_{max} (equation 2.1-3 in the ODCM) which will be calculated as follows:

$$f_{max} = \frac{0.64\ mdf}{DF}, \qquad \text{ODCM equation 2.1-3}$$

This will prevent spurious alarms and, together with the conservatism in equation 2.1-3, will ensure releases remain within limits. These flow monitors and the radiation monitors in the release path are connected to recorders.

Comment 12 addresses gaseous releases and the establishment of alarm setpoints to ensure 10CFR20 limits are not exceeded. Each of the four gaseous effluent noble gas radiation monitors has two alarm setpoints, a lower (alert) setpoint at 10% of the 10CFR20 limit and a high alarm at 70% of the 10CFR20 limit. Upon receipt of an alert alarm (10%), a sample from the alarming effluent path will be obtained and analyzed in an attempt to identify the source. If two (2) or more alert alarms, or one (1) or more high alarms, are received, all four effluent paths will be sampled and analyzed. Appropriate action will be taken to limit gaseous releases to below the 10CFR20 limits.

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The ODCM will be revised to reflect these changes. Please feel free to call if you have any questions concerning this matter.

Very truly yours,

Murray R. Edelman

Murray R. Edelman
Vice President
Nuclear Group

MRE:njc

cc: Jay Silberg, Esq.
John Stefano (2)
J. Grobe