



UNITED STATES
NUCLEAR REGULATORY COMMISSION
 WASHINGTON, D.C. 20555

August 5, 1991

Docket No. 50-440

Mr. Michael D. Lyster, Vice President
 Nuclear - Perry
 The Cleveland Electric Illuminating
 Company
 10 Center Road
 Perry, Ohio 44081

Dear Mr. Lyster:

SUBJECT: PERRY UNIT 1 USAR APPENDIX 1B LICENSE COMMITMENT NO. 5 - CONTAINMENT
 PURGE EVALUATION (TAC NO. 75094)

By letter dated June 30, 1989, the Cleveland Electric Illuminating Company (CEI) submitted a containment purge evaluation report based on the experience gained during the first operating cycle for Perry Unit 1. This submittal was provided in fulfillment of the subject commitment contained in the Perry Unit 1 Updated Safety Analysis Report (USAR). In addition to the report, the submittal requested changes to the plant Technical Specifications (TSs) regarding allowable containment purge times. By letter dated July 18, 1989, the staff declined to review the requested TS change until additional operating experience could support the need for the proposed action. By letter dated September 13, 1990, CEI indicated that, based on the second operating cycle experience, there is no current need to increase the existing TS limit on purge system operation of 1000 hours per 365 days. As a result of that determination, you further indicated that you will not be submitting an evaluation on purge system operation for the second cycle, as previously proposed. Therefore, the remainder of this letter addresses the staff's review of the first cycle containment purge evaluation.

License Commitment No. 5 in Appendix 1B to the USAR for Perry Unit 1 specifies that CEI shall conduct programs of data gathering and containment access management, which using interim guidelines for containment purge system operation, in order to develop permanent criteria for use of the purge system. The goal of this effort is to limit the amount of time that the purge system is in operation in support of necessary plant activities, consistent with maintaining personnel exposure as low as reasonably achievable (ALARA). In your letter of June 30, 1989, you presented the purge system operating experience, airborne activity history, containment access records and personnel exposure records for the plant's first operating cycle. This data indicated that the purge system was used for approximately 1700 hours of the initial 3000-hour limit over a 12-month period of full power operation. Containment purging was required to maintain airborne radioactivity levels ALARA (53% of total purging time), for pressure control (16%), and for other operational support (31%). The primary sources of airborne contamination during the first operating cycle were unusual fuel leaks, leakage from safety relief valves, and leakage from other components. The primary reason for the need to purge was to allow personnel access to containment during normal operation for the performance of TS-required surveillances, maintenance, and other activities necessary to support plant operation.

NRC FILE CENTER COPY

9108130356 910805
 PDR ADDCK 05000440
 P PDR

DF01
 110

Mr. Michael D. Lyster

- 2 -

The specific activities conducted included the operation of equipment, maintenance tasks, plant inspection rounds, surveillances for system operability, and plant modifications. Personnel exposure was controlled through a requirement for the Unit Supervisor to approve containment entries to assure their necessity and through the use of the Radiation Work Permit Procedure.

In summary, the report adequately demonstrates the need to conduct containment purging at Perry Unit 1 while in Operational Modes 1, 2 and 3. The staff has not identified any unnecessary containment purging and finds the measures implemented by CEI to maintain airborne radioactivity levels and personnel exposures ALARA to be acceptable. Therefore, the staff finds that USAR Appendix 1B, License Commitment No. 5 is satisfied. This completes our review under TAC No. 75094.

If you have any questions, please contact me at (301) 492-3063.

Sincerely,

Original Signed By:

James R. Hall, Sr. Project Manager
Project Directorate III-3
Division of Reactor Projects III/IV/V
Office of Nuclear Reactor Regulation

cc: See next page

DISTRIBUTION

| | | | |
|-------------|------------------|-------------|-----------------|
| Docket File | NRC & Local PDRs | PDIII-3 r/f | PDIII-3 gray |
| BBoger | JZwolinski | PKreutzer | JRHall |
| OGC | ACRS(10) | EJordan | DRP, Region III |

LA/PDIII-3
PKreutzer
7/16/91

PM/PDIII-3
JRHall: r/rh
8/5/91

PD/PDIII-3
JHannon
8/5/91

DOCUMENT NAME: 75094 USAR

Mr. Michael D. Lyster
Cleveland Electric Illuminating Company

Perry Nuclear Power Plant
Unit Nos. 1 and 2

cc:

Jay E. Silberg, Esq.
Shaw, Pittman, Potts & Trowbridge
2300 N Street, N.W.
Washington, D.C. 20037

Mr. James W. Harris, Director
Division of Power Generation
Ohio Department of Industrial
Relations
P. O. Box 825
Columbus, Ohio 43216

David E. Burke
The Cleveland Electric
Illuminating Company
P. O. Box 5000
Cleveland, Ohio 44101

The Honorable Lawrence Logan
Mayor, Village of Perry
4203 Harper Street
Perry, Ohio 44081

Resident Inspector's Office
U.S. Nuclear Regulatory Commission
Parmly at Center Road
Perry, Ohio 44081

The Honorable Robert V. Orosz
Mayor, Village of North Perry
North Perry Village Hall
4778 Lockwood Road
North Perry Village, Ohio 44081

Regional Administrator, Region III
U.S. Nuclear Regulatory Commission
799 Roosevelt Rd
Glen Ellyn, Illinois 60137

Attorney General
Department of Attorney General
30 East Broad Street
Columbus, Ohio 43216

Frank P. Weiss, Esq.
Assistant Prosecuting Attorney
105 Main Street
Lake County Administration Center
Painesville, Ohio 44077

Radiological Health Program
Ohio Department of Health
1224 Kinnear Road
Columbus, Ohio 43212

Ms. Sue Hiatt
OCRE Interim Representative
8275 Munson
Mentor, Ohio 44060

Ohio Environmental Protection
Agency
DERR--Compliance Unit
ATTN: Zack A. Clayton
P. O. Box 1049
Columbus, Ohio 43266-0149

Terry J. Lodge, Esq.
618 N. Michigan Street, Suite 105
Toledo, Ohio 43624

Mr. Phillip S. Haskell, Chairman
Perry Township Board of Trustees
4171 Main Street, Box 65
Perry, Ohio 44081

John G. Cardinal, Esq.
Prosecuting Attorney
Ashtabula County Courthouse
Jefferson, Ohio 44047

Mr. Robert A. Newkirk
Cleveland Electric
Illuminating Company
Perry Nuclear Power Plant
P. O. Box 97, E-210
Perry, Ohio 44081

State of Ohio
Public Utilities Commission
East Broad Street
Columbus, Ohio 43266-0573