



# THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

P.O. BOX 5000 - CLEVELAND, OHIO 44101 - TELEPHONE (216) 622-9800 - ILLUMINATING BLDG. - 55 PUBLIC SQUARE

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MURRAY R. EDELMAN

VICE PRESIDENT  
NUCLEAR

July 19, 1985  
PY-CEI/NRR-0294L

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  
Response to Request for  
Assistance in Addressing  
Concern Expressed by Mr.  
Milton Hite Relative to a  
Landfill Located 3 Miles  
from the Perry Plant

Dear Mr. Youngblood:

This letter provides the information you requested in your June 24, 1985 letter regarding a concern expressed by Mr. Milton Hite relative to a landfill located about 3 miles from the Perry Plant.

As shown on the attachment, the Lake County landfill to which Mr. Hite refers is located approximately 3 miles to the west of the Perry Plant. The approximate dimensions of the landfill are 4000 feet by 2000 feet. Refuse is compacted at a facility located on that site and then buried from 20 feet below grade to 20 feet above grade. Underlying the landfill area is a stratum of upper glacial till. The Lake County landfill has been in use since 1977 and is currently at about 40% of capacity.

A review of the literature indicates that methane migration from landfills is a highly localized phenomenon. In his letter, Mr. Hite refers to an explosion at a house near a landfill in Akron, Ohio. He may not realize however, that this house was located adjacent to the landfill. Based on the location and configuration of the Lake County landfill, the methane would dissipate to insignificant concentrations near the landfill boundary and would not migrate as far as the Perry Plant approximately 3 miles away. Although no assessments have been made on the impact of gases generated at the landfill on the Perry Plant, CEI did perform a conservative analysis of the effect of a postulated pipe break in 13 gas pipelines located near the plant (PNPP FSAR Section 2.2.3.1.1.2). The largest gas line (20" diameter) operates at 150 psi and is located 3200 feet from the plant. Based on that analysis, the staff concluded that gas pipelines will pose no hazard to the safe operation of the plant (Safety Evaluation Report of the PNPP Units 1 & 2, NUREG 0887, May 1982, Section 2.2.2)

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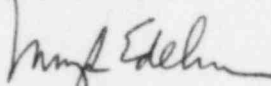
Mr. B.J. Youngblood

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We feel that this information adequately addresses Mr. Hite's concern and verifies that the landfill has no safety impact on the plant. For more information on the Lake County landfill, Mr. Richard Neroda of that facility can be contacted directly at (216) 357-2500. Please call if there are any questions or if additional information is needed.

Very truly yours,



Murray R. Edelman  
Vice President  
Nuclear Group

MRE:njc

Attachment

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



0 2000 4000 6000 FEET  
SCALE

2 MILE RADIUS

Perry Nuclear Power  
PLANT  
UNITS 1 & 2

2000 FT. RADIUS  
EXCLUSION AREA  
BOUNDARY

PLANT SITE  
BOUNDARY

LOCATION OF LAKE  
COUNTY LANDFILL