

JUL 17 1981

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Docket Nos. 50-440
and 50-441

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Mr. Dalwyn R. Davidson
Vice President - Engineering
Cleveland Electric Illuminating Company
P. O. Box 5000
Cleveland, Ohio 44101

Dear Mr. Davidson:

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION - SITING ANALYSIS

In the performance of the Perry licensing review, the staff has identified concerns in regard to siting analysis. The information that we require is identified in the enclosure.

We request that you provide the information not later than September 15, 1981. If you require any clarification of this request, please contact M. D. Houston, Project Manager, (301) 492-8593.

Sincerely,

Original signed by
Robert L. Tedesco

Robert L. Tedesco, Assistant Director
for Licensing
Division of Licensing

Enclosure:
Request for Additional
Information

cc w/enclosure:
See next page

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OFFICE	DL: LB#2	DL: LB#2	DL: A/D			
SURNAME	MHouston:cz	ASchwencer	RTedesco			
DATE	7/16/81	7/16/81	7/16/81			

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PERRY QUESTIONS

311.0 SITING ANALYSIS BRANCH

311.1
(2.1.1.3
2.1.2.1) Please revise appropriate sections of the FSAR (See Sections 2.1.1.3 & 2.1.2.1 to provide a consistent definition of the exclusion area.

311.2
(2.1.1.3
2.1.2.1
Table 2.1-9) Sections 2.1.1.3 and 2.1.2.1 refer to CEI's control of the mineral rights in the exclusion area, specifically with respect to oil, gas and salt. However, Table 2.1-9 indicates that the mineral rights for land parcels 44 and 45 have been acquired for oil and gas only. Please explain this discrepancy, and clarify the status of mineral rights ownership within the exclusion area.

311.3
(2.1.3.6
Table 2.1-8) Section 2.1.3.6 and Table 2.1-8 provide cumulative population and density data for the year 2020, and reference 100 and 500 people per square mile, respectively. End of plant life data should be compared to 1000 people per square mile. Please revise these figures.

311.4
(2.1.2.1 & 3
2.2.1.3
2.2.2.2) Section 2.2.2.2b₂ states that the railroad spur is presently being used solely by CEI, but that in the future other industries could develop along this spur. Section 2.1.2.1 and 2.1.2.3 states that only railroad cars consigned to the Perry NPP are normally brought into the plant site over this spur. Section 2.2.1.3b states that this spur is primarily for use by CEI.

Please indicate whether any railroad cars associated with present and possible future industries along this spur could be brought in close proximity with the Perry Nuclear Power Plant, and if so,

what methods CEI proposes to assure that potentially hazardous, explosive or toxic materials will not unduly threaten the safe operation of the plant.

311.5
2.2.2.3

Section 2.2.2.3 states that ten gas wells and five gas and oil wells were completed in Lake County in 1978. It also states that gas and oil exploration may continue in the undeveloped areas of Lake County. This presumably means that drilling may occur up to the exclusion area boundary.

If view of this situation, please provide a detailed analysis which specifically discusses potential accidents at the closest point where mineral exploration may be permitted, including effects of fire, spillage and a gas well blow out. Your analysis should specifically discuss and consider the following:

- (a) The effects of fire both with regard to heat flux upon the plant as well as effects of dense smoke upon control room habitability.
- (b) The effects of any oil spillage, including consequences of oil runoff and features to mitigate or preclude this.
- (c) The effect of a gas well blow out which conservatively considers the release and delayed ignition of any non-buoyant components, such as ethane and propane, found in natural gas.
- (d) The effect of detonation of explosives which may be used both in mineral extraction operations as well as extinguishing of fires. Please provide an indication of the maximum quantity and type of explosives that might be used in connection with the activities identified above.
- (e) Indicate the overpressure, in psi, that the safety-related structures are designed to withstand.
- (f) Describe in detail the atmospheric dispersion models used, including assumptions.
- (g) Discuss the possibility of subsidence and its effect on safety related plant structures as a result of such exploration.

Please state all other assumptions used.