

RELATED CORRESPONDENCE

August 30, 1982

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

DOCKETED
USNRC

Before the Atomic Safety and Licensing Board SEP -1 A10:50

In the Matter of)
)
CLEVELAND ELECTRIC ILLUMINATING)
COMPANY, Et Al.)
)
(Perry Nuclear Power Plant,)
Units 1 and 2))
_____)

OFFICE OF SECRETARY
DOCKETING & SERVICE
Docket Nos. 50-441
50-441
(Operating License)

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OHIO CITIZENS FOR RESPONSIBLE ENERGY
THIRD SET OF INTERROGATORIES TO APPLICANTS

Ohio Citizens for Responsible Energy ("OCRE") hereby propounds its third set of interrogatories to Applicants, pursuant to the Licensing Board's Memorandum and Order of July 28, 1981 (LBP-81-24, 14 NRC 175).

ISSUE #5

Statement of Purpose: The interrogatories below concerning Issue #5 are designed to ascertain the susceptibility of the Applicants' facility to the LOCA scenario resulting from a pipe break to the scram discharge volume postulated in NUREG-0785.

3-1. Are the drawings referred to in "Applicants' Answer to Ohio Citizens for Responsible Energy Second Set of Interrogatories to Applicants" as-built drawings or as-designed drawings? If Applicants anticipate any substantial differences between design and actual construction, please describe these differences.

3-2. How accessible are the manual SDV isolation valves, HCU valves 102 and 112? Describe in detail the exact location

of these valves in the HCU or its piping and any panels, covers, or other obstructions which must be removed to gain access to the valves. Are any special tools required to gain access to or to close the valves? Would the environment expected in the vicinity of an SDV pipe break (heat, steam, radiation) prevent personnel from closing the valves?

- 3-3. Does the SDV vent line have any interconnections with any other systems? If so, specify these connections. Has the SDV vent line been designed to ensure that there can be no loop seals in the line that could prevent or slow the draining of the SDV?

Issue #9

Statement of Purpose: The interrogatories below concerning Issue #9 are designed to ascertain the degree to which polymers used at PNPP will be subject to radiation-induced degradation and whether Applicants' environmental qualification program has given due consideration to dose-rate and synergistic factors.

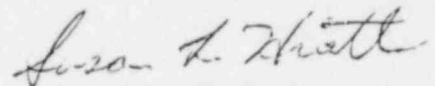
- 3-4. List every polymeric material located in a radiation environment at PNPP, Units 1 and 2; for every such material listed, specify the following:
- (a) trade or common name of the polymer;
 - (b) chemical formula and structure of the polymer;
 - (c) function of the polymer, e.g., coating, electrical insulation, or mechanical/structural component;
 - (d) name of the equipment or component in which the polymer is used;

- (e) function of the equipment or component listed in (d) above, including the general system in the plant, and whether it is safety-related or non-safety-related;
- (f) for electrical equipment, is the system Class 1E or non-Class 1E; if Class 1E, is it Division 1, 2, or 3?
- (g) for electrical insulation, give the AWG of the wire, rated maximum voltage, current, and ambient temperature, expected voltage, current, and ambient temperature, and thickness of the insulation;
- (h) exact location within the plant of the polymeric material;
- (i) radiation exposure rate expected during normal plant operation, in Rad/hr; also give type (alpha, beta, gamma, or neutron) of radiation and its energy, in MeV;
- (j) dose and dose rate expected from the most severe design basis event during or following which the equipment is required to remain functional;
- (k) temperature and humidity expected during normal operation, and during or following the most severe design basis event;
- (l) type and duration of the design basis event referred to above;
- (m) whether the equipment is located in an oxidizing or an inert atmosphere (normally and under accident conditions);
- (n) method by which the polymer or component was qualified

for use in a radiation environment, including any analyses of synergistic effects;

- (o) the results of any qualification tests for the polymer or component; e.g., was any degradation observed?
- (p) expected lifetime of the component in which the polymer is used; e.g., is it to be routinely replaced at any time in the operating lifetime of PNPP? If so, at what intervals?

Respectfully submitted,



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CERTIFICATE OF SERVICE

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This is to certify that copies of the foregoing ^{82 SEP -1 A10:50} CITIZENS FOR RESPONSIBLE ENERGY THIRD SET OF INTERROGATORIES TO APPLICANTS were served by deposit in the U.S. Mail, first class, postage prepaid, this 30th day of August, 1982, on the service list below.

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