

11/08/82

UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

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

Docket Nos. 50-440 OL  
50-441 OL

NRC STAFF SUPPLEMENTAL ANSWERS TO FOURTH SET  
OF INTERROGATORIES TO STAFF BY THE OHIO  
CITIZENS FOR RESPONSIBLE ENERGY

The following are the NRC Staff's supplemental voluntary answers in response to the fourth set of interrogatories by the Intervenor Ohio Citizens for Responsible Energy (OCRE).<sup>1/</sup>

Respectfully submitted,

*Nathene A. Wright*

Nathene A. Wright  
Counsel for NRC Staff

Dated at Bethesda, Maryland  
this 8th day of November 1982

1/ Ohio Citizens for Responsible Energy Fourth Set of Interrogatories to NRC Staff, dated August 30, 1982.

DESIGNATED ORIGINAL

Certified By *K. T. [Signature]*

0507

#### Interrogatory 4-2

In the Staff's opinion, could suppression pool swell hydrodynamic loading on the SDV, SDIV, or HCU's and associated piping cause pipe breaks or any other damage to these components? Could pool swell disrupt instrumentation in the SDIV or valves in the HCU, thereby impairing the scram function?

#### Response

The Staff objects to this interrogatory on the grounds that it seeks information which is irrelevant to the contentions admitted in this proceeding, see 10 C.F.R. § 2.740(b)(1), in that with respect to the pertinent contention, Issue #5, the occurrence of the break is assumed.

#### Interrogatory 4-3

Would water from an SDV pipe break flashing to steam pressurize the containment? Would this condition harm any equipment located in the containment which was not qualified for this condition?

#### Response

An SDV pipe break will pressurize the containment. The PNPP applicant has performed analyses for a number of postulated primary system breaks. These analyses, which are described in Section 6.2 of the PNPP FSAR, include a double-ended rupture of the recirculation line, a double-ended rupture of a main steam line, an intermediate size rupture of a liquid line, and a small size rupture of the steam line. Since the break area of the SDV system piping is within the spectrum of the pipe breaks considered by PNPP, the limiting containment pressure and temperature profiles have been determined. Therefore, since all safety related equipment is qualified to perform its extended function within this spectrum, the equipment will be able to perform at the less severe environment associated with an SDV pipe break.

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AFFIDAVIT OF THOMAS A. GREENE

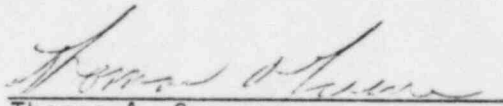
I, Thomas A. Greene, being duly sworn, state as follows:

1. I am a containment systems engineer in the Division of Systems Integration, Office of Nuclear Reactor Regulation, U.S. Nuclear Regulatory Commission.


2. I am the NRC staff member responsible for the responses to Interrogatory No. 4-3 of "Ohio Citizens for Responsible Energy Fourth Set of Interrogatories to the Staff" dated August 30, 1982.

3. This response is true and accurate to the best of my knowledge and belief.

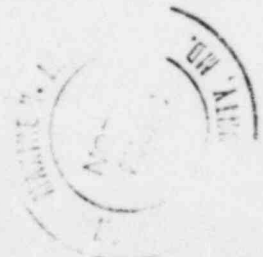
Respectfully submitted,

  
Thomas A. Greene

Sworn and subscribed before me  
this 8th day of November 1982

  
Notary Public

My commission expires: 7/1/86



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NUCLEAR REGULATORY COMMISSION

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In the Matter of )

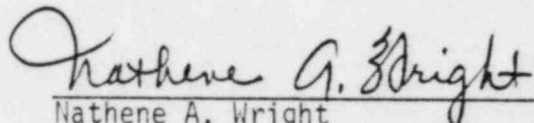
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NOTICE OF WITHDRAWAL

Notice is hereby given that effective November 8, 1982, I will withdraw my appearance in the above captioned proceeding. All mail and service lists should be amended to delete my name after that date.

  
Nathene A. Wright  
Counsel for NRC Staff

UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

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CERTIFICATE OF SERVICE

I hereby certify that copies of "NRC STAFF SUPPLEMENTAL ANSWERS TO FOURTH SET OF INTERROGATORIES TO STAFF BY THE OHIO CITIZENS FOR RESPONSIBLE ENERGY" and "NOTICE OF WITHDRAWAL" in the above-captioned proceeding have been served on the following by deposit in the United States mail, first class, or, as indicated by an asterisk through deposit in the Nuclear Regulatory Commission's internal mail system, this 8th day of November 1982:

\*Peter B. Bloch, Esq., Chairman  
Administrative Judge  
Atomic Safety and Licensing Board  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

\*Dr. Jerry R. Kline  
Administrative Judge  
Atomic Safety and Licensing Board  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

\*Mr. Frederick J. Shon  
Administrative Judge  
Atomic Safety and Licensing Board  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Jay Silberg, Esq.  
Shaw, Pittman, Potts and Trowbridge  
1800 M Street, N.W.  
Washington, D.C. 20036

Donald T. Ezzone, Esq.  
Assistant Prosecuting Attorney  
105 Main Street  
Lake County Administration Center  
Painesville, Ohio 44077

Susan Hiatt  
3275 Munson Avenue  
Mentor, Ohio 44060

Daniel D. Wilt, Esq.  
P. O. Box 08159  
Cleveland, Ohio 44108

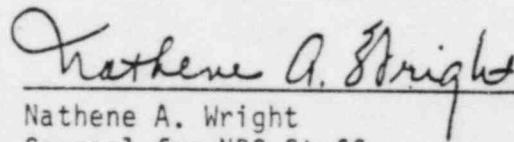
Terry Lodge, Esq.  
Attorney for Intervenors  
915 Spitzer Building  
Toledo, Ohio 43604

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

\*Atomic Safety and Licensing Board  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

\*Atomic Safety and Licensing Appeal  
Board Panel  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

\*Docketing and Service Section  
Office of the Secretary  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

  
Nathene A. Wright  
Counsel for NRC Staff