



**Commonwealth Edison**  
One First National Plaza, Chicago, Illinois  
Address Reply to: Post Office Box 767  
Chicago, Illinois 60690

November 4, 1983

Mr. Robert Gilbert  
Project Manager  
Operating Reactors Branch No. 5  
Division of Licensing  
U.S. Nuclear Regulatory Commission  
7920 Norfolk Avenue  
Bethesda, MD 20014

Subject: Dresden Nuclear Power Station Unit 2  
Request for Information on the  
Dresden Chimney (IPSAR Section 4.3.2)  
NRC Docket No. 50-237

Dear Mr. Gilbert:

During a September 26th phone conversation with Mr. Chery of the NRC, certain information was requested concerning the Chimney at the Dresden Nuclear Power Station. The following is a list of the data requested.

1. Blume and Associates Seismic Analysis of the Chimney.
2. Reinforced Concrete Ventilation Chimney- Rust Eng. Dwg.  
#C-5002-T-A-2.
3. Question: Have there been any modifications to the Chimney -  
since its construction?  
Answer: No major modifications have been performed since  
original construction.
4. Question: What is the yield strength of the reinforcing steel?  
Answer: The reinforcing steel is of intermediate grade with a  
minimum yield strength ( $S_y$ ) of 40 ksi. Calculations  
have been performed based on the actual reinforcing  
bar strengths and based on all available mill test  
reports which give yield strengths:  $S_y = 54$  ksi;  
ultimate strength  $S_u = 83$  ksi.
5. Question: Is there reinforcing steel on the inside and/or  
outside vertical faces of the chimney?  
Answer: The vertical reinforcing is located on the inside and  
the outside face of the vent stack in the lower  
portion up to approximately elevation 561'-0", and is  
located only on the outside face above that elevation.

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Drawings  
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6. Question: Does the chimney have a liner?  
Answer: No.
7. Question: What are the concrete specification for the chimney?  
Answer: The concrete specified for the chimney has a strength of 3500 psi at 28 days.

If you have any further questions regarding this matter, please contact this office.

One signed original and forty (40) copies of this letter with the Blume and Associates report are enclosed. Due to the size and nature of the requested drawings, only one copy is being submitted.

Very truly yours,



B. Rybak  
Nuclear Licensing Administrator

lm

cc: Region III Inspector - Dresden

7571N

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May 25, 1967

General Electric Company  
Atomic Power Equipment Department  
175 Curtner Street  
San Jose, California

ATTENTION: Mr. R. B. Gile

SUBJECT: DRESDEN UNITS 2 AND 3 NUCLEAR PLANT  
Earthquake Analysis of the Ventilation Stack

Gentlemen:

Transmitted herein is the subject report based on information furnished by the General Electric Company.

This report summarizes the analytical procedures and results for the seismic analysis of Dresden Units 2 & 3 Ventilation Stack.

The results presented herein should be used in review of the final designs seismic adequacy and to determine whether any changes in soil or structural properties would warrant further earthquake analysis.

Very truly yours,

JOHN A. BLUME & ASSOCIATES, ENGINEERS

*E. J. Keith*

E. J. Keith  
Assistant Vice President

EJK/vo

Enclosures