



Docket Number 50-461

March 11, 1983

Director of Nuclear Reactor Regulation
Attention: Mr. A. Schwencer, Chief
Licensing Branch No. 2
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Schwencer:

Clinton Power Station Unit #1
Containment Penetration Debris Screen Design
CPS-SER Confirmatory Issue #53

- References: (1) IP Letter U-0592 from G. E. Wuller to A. Schwencer, January 17, 1983; "Containment Continuous Vent & Purge System."
(2) Meeting between IP and NRC, February 16-17, 1983; "Status of CPS SER Outstanding & Confirmatory Issues."

The purpose of this letter is to provide the NRC Staff with information on the design and use of debris screens on containment penetrations associated with the Clinton Power Station (CPS) Containment HVAC System.

Seven debris screens will be installed on piping at CPS. One will be installed upstream of valve 1VR01A on the 36" inlet line to the containment. Another will be installed downstream of valve 1VR001B on the same line. This screen is in place to protect the isolation valves in the event air flow is reversed due to containment pressure being higher than that in the ductwork outside the containment. On the 36" exhaust line a screen will be installed upstream of valve 1VQ004B. Another screen will be installed on the 4" bypass line upstream of valve 1VQ006B.

The remaining three debris screens will be installed on the 12" HVAC system being installed as part of the continuous containment vent and purge modification as described in reference 1. On the inlet line, one screen will be installed upstream of containment outboard isolation valve 1VR006A and another screen will be installed downstream of containment inboard isolation valve 1VR006B. On the exhaust line a screen will be installed upstream of containment inboard isolation valve 1VR007B.

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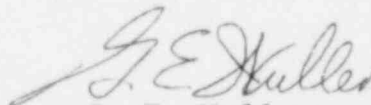
The debris screens will be designed to the following criteria:

1. Screens will be installed about one pipe diameter away from their respective valves.
2. Screens will be seismic category I and will be able to withstand LOCA pressures.
3. The piping between the valve and screen will be seismic category I.
4. The size of the openings in the debris screens will be approximately 2" by 1 3/16".

The above information on debris screens plus revised piping drawings will be incorporated into a future CPS-FSAR amendment about July 1983.

It is believed that the above information satisfies the agreement reached during our 2/16/83 meeting (Reference 2) with Mr. L. Ruth of the Containment Systems Branch and is therefore adequate to close CPS-SER Confirmatory Issue No. 53 in the next SER Supplement. Please let us know at your earliest convenience if you have any questions or concerns.

Sincerely,



G. E. Wuller
Supervisor - Licensing
Nuclear Station Engineering

AJH/DLH/lc

cc: H. Abelson, NRC Clinton Project Manager
L. Ruth, NRC CSB
H. H. Livermore, NRC Resident Inspector
Illinois Department of Nuclear Safety