



# WISCONSIN PUBLIC SERVICE CORPORATION



P.O. Box 1200, Green Bay, Wisconsin 54305

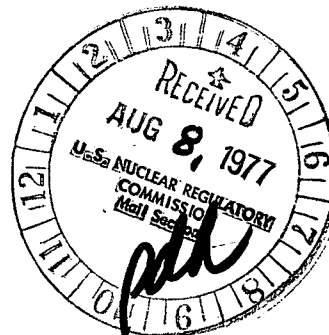
August 3, 1977

File Cy

Regulator

Division of Operating Reactors  
Office of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

ATTN: Mr. A. Schwencer, Chief  
Operating Reactors Branch #1



Gentlemen:

REF: Docket 50-305  
Operating License DPR-43  
ECCS Throttle Valves

On July 18, 1977, we were requested by letter from your office to evaluate the design of the low and high head Safety Injection System. The particular area of concern of the letter was throttle valve position verification for throttle valves used to adjust ECCS flows to analyze assumed values and to provide pump runout protection.

The low head safety injection system does not include throttle valves for either pump runout protection or flow adjustment. The low head safety injection system is comprised of the residual heat removal pumps, each with its separate suction and discharge piping which provides a non-throttled path to the reactor vessel.

The high head safety injection system includes four two-inch throttle valves for the purpose of balancing flow and providing pump runout protection. Figure 6.2-1 of the FSAR presents the section of the Safety Injection System which includes those valves. (The 2-T58 valves which Note 9 of the Figure 6.2-1 addresses are the valves of concern.)

During the preoperational test program, the proper position of each valve stem was determined by accurate flow measurement. Following determination of proper valve position, the valve handles were removed, stem lock nuts were installed and mated with the stem nut with set screws, and locking/retaining brackets were welded to the valve yoke fastening the lock nut in place. Thereby, the valve stems were locked in position and any displacement of stem position is prevented. These valves were included in the design as adjustable orifices

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which once the proper position is determined, are to be fixed in that position. Since the movement of valve stem position has been prevented, the orifice is now fixed and continued surveillance is not necessary.

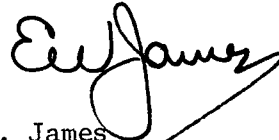
In addition, a note has been added to the flow diagram, which applies to each of the ECCS throttling valves. That note states:

"Valve throttled to ECCS flow spec. Locking device installed on valve stem. Consult Preoperational Test PT S1 02 File and perform safety review prior to removal of locking device."

The valves are also tagged with a danger card and a similar note.

In view of the provision addressed above in regard to the S1 throttle valves, we consider no further action necessary to assure adherence to the ECCS assumed flow conditions at the Kewaunee Plant.

Very truly yours,

A handwritten signature in dark ink, appearing to read 'E. W. James', with a long, sweeping underline that extends to the right.

E. W. James  
Senior Vice President  
Power Supply & Engineering

EWJ:sna

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