

Babcock & Wilcox

Power Generation Division

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SOM #058 620-3014
SIP #14/029

July 31, 1975

GP4 EXHIBIT 490 FOR IDENT.
3/23/82 H. A. RUSSOPH

Mr. J. G. Evans, Station Superintendent
Davis-Besse Nuclear Power Station
5501 North State Route #2
Oak Harbor, Ohio 43449

Subject: Solenoid Pilot Operated Pressurizer Relief Valve - PSV-RC 2

Dear Jack:

One of our customers recently experienced a pressurizer electromagnetic relief valve malfunction while at low power in preparation for plant shutdown. A pressure transient in the Reactor Coolant System actuated the pressurizer electromagnetic relief valve. The valve failed to close after pressure was reduced causing the Quench Tank rupture disc to rupture. Failure to promptly close the electromagnetic relief isolation valve resulted in violations of several plant limits, i. e. fuel compression curve, cooldown rates.

An inspection of the power relief valve after shutdown indicated that the pilot valve lever had remained in the ported position preventing the main valve from reseating. Restraint of the lever was caused by corrosion of the lever pin, lever hinge and solenoid bracket.

The Pressurizer Electromagnetic Relief Valve at Davis-Besse Unit I is a Crosby Style HPV-SN solenoid pilot operated relief valve, (BAW Instruction Manual - 01-0204-00). Periodic inspections for the presence of corrosion products, particularly in the area of the solenoid bracket, solenoid link pins and solenoid lever, and the performance of manual/visual checks for freedom of motion should be made during plant shutdowns.

In the event that the Pressurizer Electromagnetic Relief Valve fails to close, prompt closure of the electromagnetic relief isolation valve will prevent an uncontrolled RCS depressurization.

If you have any questions, please contact Fred Faist.

Yours truly,

Fred R. Faist, Jr.
R. J. Baker, Jr.
Site Operations Manager

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