



BW/IP International, Inc.

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12 February 1993

U. S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, D. C. 20555

Gentlemen:

This letter transmits a notification of defects and nonconformances required by 10CFR - Part 21. The attached notification, CFRN-9301, reports a condition which occurred at Texas Utilities, Comanche Peak Steam Electric Station.

Very truly yours,

D. A. Gibson  
Manager Nuclear Products Operations

DAG/ah

Attach.

cc: Mr. K. B. Lemmon, Manager, Field Service Operations  
Mr. R. D. Ham, Manager of Quality  
Mr. F. Costanzo, Manager of Engineering  
Mr. K. A. Huber, Technical Liaison  
Mr. W. A. Klenner, Product Manager

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10 CFR PART 21 NOTIFICATION

(Reference No. CFRN-9301)

NAME AND ADDRESS OF THE INDIVIDUAL OR INDIVIDUALS INFORMING THE COMMISSION:

Mr. D. A. Gibson  
BW/IP International, Inc.  
Pump Division  
Los Angeles Operation  
2300 E. Vernon Avenue  
Vernon, CA 90058  
(213) 587-6171

For Technical Information Contact: Dr. Kent Huber

IDENTIFICATION OF THE FACILITY, THE ACTIVITY, OR THE BASIC COMPONENT SUPPLIED FOR SUCH FACILITY OR SUCH ACTIVITY WITHIN THE UNITED STATES WHICH FAILS TO COMPLY OR CONTAINS A DEFECT:

Texas Utilities, Comanche Peak Steam Electric Station.  
Basic Component: 4-inch 150# Bolted Bonnet Swing Check Valve  
BW/IP Part No. 75580  
TU Tag Nos. 2CC-0697 & 2CC-0693

IDENTIFICATION OF THE FIRM CONSTRUCTING THE FACILITY OR SUPPLYING THE BASIC COMPONENT WHICH FAILS TO COMPLY OR CONTAINS A DEFECT:

BW/IP International, Inc.  
Successor to:

Borg-Warner Nuclear Valve Division  
7500 Tyrone Avenue  
Van Nuys, CA 91409

10 CFR, Part 21, Notification  
(Ref. No. CFRN-9301)

NATURE OF THE DEFECT OR FAILURE TO COMPLY AND THE SAFETY HAZARD WHICH IS CREATED OR COULD BE CREATED BY SUCH DEFECT OR FAILURE TO COMPLY:

Valve 2CC-0697 did not fully close during pre-operational testing. Radiographs taken at the time of failure show the disk positioned at approximately 21° from the full closed position. The valve was disassembled. The top of the disk was found to be lodged under the seat lip preventing full closure. Valve 2CC-0693 subsequently failed testing in a similar manner. Both valves are located in the Component Cooling Water return lines from the Reactor Coolant Pump Motor Coolers and do not serve an active safety function. However the failure mechanism could apply to other valves that do provide a safety function.

Evaluation of the basic component by BW/IP indicates the root cause of the failure to close is due to the configuration of the attachment weld between the disk to the stud. Prior to 1977, this weld was placed on the back surface of the stud and extended into the bushing bore. In disks manufactured after 1977, the weld was recessed into the back surface of the disk and a final machine cut made to assure a flush surface.

THE DATE ON WHICH THE INFORMATION OF SUCH DEFECT OR FAILURE TO COMPLY WAS OBTAINED:

The incident was initially reported to BW/IP on 18 December 1992. Additional information has subsequently been supplied by Texas Utilities.

IN THE CASE OF A BASIC COMPONENT WHICH CONTAINS A DEFECT OR FAILS TO COMPLY, THE NUMBER AND LOCATION OF ALL SUCH COMPONENTS IN USE AT, SUPPLIED FOR, OR BEING SUPPLIED FOR ONE OR MORE FACILITIES OR ACTIVITIES SUBJECT TO THE REGULATIONS IN THIS PART:

This notice applies to all BW/IP 4-inch, 150#, bolted bonnet swing check valves which have a raised disk-stud retention weld on the back surface of the disk.

10 CFR, Part 21, Notification  
(Ref. No. CFRN-9301)

THE CORRECTIVE ACTION WHICH HAS BEEN, IS BEING, OR WILL BE TAKEN; THE NAME OF THE INDIVIDUAL OR ORGANIZATION RESPONSIBLE FOR THE ACTION; AND THE LENGTH OF TIME THAT HAS BEEN OR WILL BE TAKEN TO COMPLETE THE ACTION:

Corrective action is complete with the disk design modification identified above.

ANY ADVICE RELATED TO THE DEFECT OR FAILURE TO COMPLY ABOUT THE FACILITY, ACTIVITY, OR BASIC COMPONENT THAT HAS BEEN, IS BEING, OR WILL BE GIVEN TO PURCHASERS:

Licensees with valve installations effected by this notice should install a new disk component or refurbish the existing disk.