BW/IP International, Inc.

Byron Jackson® Pumps
United Centrifugal™ Pumps
Pump Division

P.O. Box 2017 Terminal Annex
Los Angeles California 90051

Telephone 213 587 8171
Telex 677233
Fax 213 589 2080

10 January 1995

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

Subject: 10CFR, Part 21, Notification No. CFRN 94-03

Gentlemen:

An audit of activities relative to Title 10 of the Code of Federal Regulations, Part 21, for the 1994 calendar year has recently been completed. The audit was unable to definitively determine whether Attachment A, Location of Equipment, had been sent with Notification No. CFRN 94-03 submitted on 25 October, 1994.

BW/IP International, Inc., believes the Attachment was correctly included with the Notification. However, there was no specific reference to Attachment A contained in the text. All utilities with valves effected by this Notification were individually informed of the filing and sent a copy of the Notification on 29 October, 1994, in accordance with our 10CFR, Part 21, procedure.

To assure that the official identification requirement has indeed been satisfied for this Notification, Supplement 1, attached, adds a reference to Attachment A to the text and transmits the location of the affected valves as required by 10CFR, Part 21.

Very truly yours,

D.A. Gibson
Manager Nuclear Products Operations

Attach.

cc: Mr. F. Costanzo, Manager of Engineering
Mr. D. Lattimore, Manager of Quality
Mr. K. Huber, Technical Liaison
Mr. W. Klenner, Product Manager
Mr. G. Sausman, Field Service Operations

JE19

NOTIFICATION OF A REPORTABLE
ISSUE PURSUANT TO 10 CFR 21

DATE: 10 January 1995

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

NAME AND ADDRESS OF INDIVIDUAL INFORMING THE COMMISSION:

Mr. David Gibson
BW/IP International, Inc.
Pump Division
2300 East Vernon Avenue
Vernon, CA 90058
(213) 587-6171

For Technical Information Contact: Dr. Kent Huber
BW/IP Evaluation No. CFR 93-008

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

Basic Component: 6-inch 900# Motor Operated Y-Globe Valve

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

BW/IP International, Inc.
Pump Division
Successor to:

BW/IP International, Inc
Fluid Controls Division
Successor to:

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

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:

Design calculations of stem thrust required to close the valve were based on the differential pressure acting on the seat area of the valve. Quantitative measurements of the referenced valve as part of the EPRI MOV Performance Prediction Program in response to NRC Generic Letter 89-10, showed that, when flow through the valve exceeds 5 fps, the stem thrust should be based on the differential pressure acting across the valve guide area. Required stem thrust using the valve guide area can be more than double the value calculated using the seating area.

The calculated forces are used to size the valve actuator and motor and to set the actuator torque switch. If the stem thrust required to close the valve against a differential pressure is higher than the design value, the valve may fail to perform its intended safety function.

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

EPRI completed testing of the referenced valve on 18 October 1993 and notified BW/IP of the findings on 18 October 1993.

BW/IP initiated an evaluation to determine if a reportable deficiency existed. Prior to completing this evaluation, EPRI reported the dependence of the stem thrust on flow velocity.

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:

This Notification applies to all sizes and classes of motor operated Borg-Warner Y-Globe valves. See Attachment A for specific station locations.

THE CORRECTIVE ACTION WHICH HAS, 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:

If not already done, utilities should review the set-point calculations on all installed Borg-Warner Y-globe valves and take corrective actions as appropriate.

BW/IP has revised the operator selection criteria for new products.

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

BW/IP should be contacted for details and assistance.

LOCATION OF EQUIPMENT

1. Florida Power & Light Co.; St. Lucie Station
2. Texas Utilities Generating Co.; Comanche Peak Station
3. Washington Public Power Supply System; WNP-3 SATSOP
4. Tennessee Valley Authority; Watts Bar, Browns Ferry Stations
5. Entergy Operations; Arkansas Power & Light; ANO-1
6. Arizona Public Service Co.; Palo Verde Station
7. Cleveland Electric Illuminating Co.; Perry Nuclear Station
8. Duke Power Company; Catawba, McGuire Station