



BW/IP International, Inc.

Byron Jackson  
Pumps  
United Centrifugal  
Pumps  
Pump Division

P.O. Box  
2017  
Terminal  
Avenue

Los Angeles  
California  
90021

Telephone  
213 587 5111  
Telex  
377333  
Fax  
213 589 2080

TELECOPY TRANSMITTAL

DISPOSITION

URGENT

NORMAL

TELECOPIER NUMBER: (301) 492-8187

DATE 30 JUNE 92

COMPANY NAME: U.S. NUCLEAR

REGULATORY COMMISSION

TO: OPERATIONS CENTER

FROM: K.A. HUBER

NUMBER OF PAGES TO FOLLOW: \_\_\_\_\_

BYRON JACKSON'S TELECOPIER INFORMATION

TELECOPIER NUMBER: (213) 589-2080

TELECOPIER MAKE: MINOLTA 761

VERIFICATION NUMBER: (213) 587-6171

(301) 951-055

SUBJECT: 10 CFR 21 NOTIFICATION

NOTIFICATION OF 10 CFR, PART 21,  
FOLLOWS.

PLEASE NOTE ORIGINAL IS ADDRESSED  
TO WALNUT CREEK OFFICE

070024

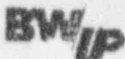
CC: \_\_\_\_\_

9207090081 920630  
PDR ADOCK 05000445  
S PDR

SINCERELY YOURS,

*Kent A. Huber*

*TEL 11*



BWIP International, Inc.

Byron  
Jackson®  
Pumps  
Unit®  
Centrifugal™  
Pumps

Pump  
Division

P.O. Box  
2017  
Terminal  
Annex

Los Angeles  
California  
90051

Telephone  
213 587 5171  
Telex  
677233  
Fax  
213 589 2090

30 June 1992

Administrator, Office of Inspection  
and Enforcement, Region V  
U. S. Nuclear Regulatory Commission  
1450 Maria Lane, Suite 210  
Walnut Creek, California 94596

Gentlemen:

This letter transmits a notification of defects and noncompliances required by 10CFR - Part 21. The attached notification, CFRN-9C01, reports a condition which occurred at Texas Utilities, Comanche Peak Steam Electric Station.

Very truly yours,

G. C. Godwin  
Manager Los Angeles Operations

CCG/ah

Attach: 3 Copies of Notification

cc: Mr. F. J. Burgers, Vice President Operations  
Mr. E. B. Fiske, Director of Engineering  
Mr. R. D. Ham, Manager of Quality  
Mr. F. Costanzo, Manager of Engineering  
Dr. K. A. Huber, Technical Liaison  
Mr. W. A. Klenner, Product Manager

10 CFR PART 21 NOTIFICATION

(Reference No. CFRN-9201)

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

Mr. G. C. Godwin  
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, 3" - 900 lbs. Swing Check Valve Serial No. 75510  
Part No. 72543. Texas Utilities Tag No. 1SW-048.

Part No. 72543 (Swing Arm) is also used in other valve sizes.  
Exhibit A contains a listing of original installations.

## 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-9201)

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:

Texas Utilities reported the replacement Swing Arm to be not completely interchangeable with the original part. Factory inspection of the subject part showed critical dimensions to be the same as on the original part except for the elongated stud hole provided for improved seating. Dimensional evaluation of the valve components show no detrimental contact or interference of internal parts even under the most adverse tolerance stack-up conditions. The replacement arm is thus considered equivalent in fit, form, and function.

The interference study performed for this evaluation, revealed, that under extreme tolerance stack-up, the stud/disc assembly may stop in a partially open position against the relieved section at the bottom of the valve throat and not against the stop (see illustration). The amount of contact interference is greater in valves with arms fabricated after August 1981. Should this extreme situation occur, there is sufficient flow area in the body to allow full flow through the valve. The more likely situation is that the disc/stud assembly will rotate in the bushing under impingement flow forces. This rotation removes any interference that may occur between the stud and body and allows the valve to fully open.

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

The incident was initially reported to BW/IP International on 16 January 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:

Investigation of the subject components has indicated no defects or failure to comply, nor has BW/IP received any notification of failures in like components in operating plants with many years of service (See Exhibit A).

10 CFR, Part 21, Notification  
(Ref. No. CFRN-9201)

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:

Based on the design evaluation and from field experience of Swing Check Valves of similar design, no corrective actions were identified.

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:

BW/IP will inform customers of the potential for the stated interference between the stud and valve body by issuing a Technical Service Bulletin.



EXHIBIT A  
10CFR, PART 21 NOTIFICATION  
(REF. NO. CFRN-9201)

USER LIST

BW/IP INTERNATIONAL, INC.

2-1/2 AND 3 INCH SWING CHECK VALVES

INCORPORATING SWING ARM P/N 72543

1. Boston Edison, Pilgrim Station
2. Texas Utilities Generating Co., Comanche Peak Station
3. Washington Public Power Supply System, WNP-3 & 5
4. Tennessee Valley Authority, Browns Ferry Station
5. Tennessee Valley Authority, Watts Bar Station
6. Arkansas Power and Light, ANO-1 & 2
7. Arizona Public Service Co., Palo Verde Station
8. Cleveland Electric Illuminating Co., Perry Nuclear Station

