

ORGANIZATION: BORG-WARNER
NUCLEAR VALVE DIVISION
VAN NUYS, CALIFORNIA

REPORT NO.: 99900289/82-02	INSPECTION DATES: 4/15-16/82	INSPECTION ON-SITE HOURS: 16
CORRESPONDENCE ADDRESS: Borg-Warner Nuclear Valve Division ATTN: Mr. R. J. Rutkowski Manager, Remote and Manual Operators 7500 Tyrone Ave. Van Nuys, CA 91409		
ORGANIZATIONAL CONTACT: Mr. R. J. Rutkowski, Manager, Remote and Manual Operators TELEPHONE NUMBER: (213) 781-4000		
PRINCIPAL PRODUCT: Nuclear Control Valves		
NUCLEAR INDUSTRY ACTIVITY: The total effort committed to Domestic Nuclear Activities at the Van Nuys, California facility is approximately 70% of plant production.		
ASSIGNED INSPECTOR:	<u>J.R. Agee</u> J. R. Agee, Equipment Qualification Section (EQS)	<u>7/21/82</u> Date
OTHER INSPECTOR:	A. L. Smith, EQS	
APPROVED BY:	<u>H.S. Phillips</u> H. S. Phillips, Chief, EQS	<u>7-21-82</u> Date
INSPECTION BASES AND SCOPE:		
A. <u>BASES</u> : 10 CFR Part 50, Appendix B, IEEE 323-1974, and NUREG 0588, Rev. 1.		
B. <u>SCOPE</u> : This inspection was made to verify that the scheduled qualification testing of the Borg-Warner (B-W) valve actuator is proceeding in compliance with a test plan and procedure that meets the criteria of IEEE Standard 323-1974 and NUREG-0588, Rev. 1; and that the qualification testing is proposed to be conducted in a test facility capable of providing simulated loss of coolant accident (LOCA) test conditions.		
PLANT SITE APPLICABILITY: The valve actuator is currently being qualification tested for specific use in 50-382.		
DESIGNATED ORIGINAL Certified: <u>Rheanne Jouts</u>		

REPORT

NO.: 99900289/82-02

INSPECTION

RESULTS:

PAGE 2 of 3

A. VIOLATIONS:

None

B. NONCONFORMANCES:

None

C. UNRESOLVED ITEMS:

None

D. STATUS OF PREVIOUS INSPECTION FINDINGS

1. (Open) Unresolved Item C (82-01): Low bolting torque values.

The inspector did not evaluate this item during this inspection.

2. (Open) Nonconformance B (82-01): Failure to accomplish design changes in accordance with paragraph 3.5.3, Section 3 of the Nuclear Products Quality Assurance Manual.

The inspector did not evaluate this item during this inspection.

E. OTHER FINDINGS OR COMMENTS:

The purpose of the inspection was to observe the B-W qualification test program to qualify a valve actuator for use in a nuclear plant in a harsh environment. More specifically, the inspection was conducted to verify that qualification of this valve actuator for the Waterford-3 nuclear plant was being pursued in compliance with approved test plans and procedures that meet the test criteria of IEEE Standard 323-1974 and NRC NUREG 0588, Rev. 1, and that the testing would be done in a test facility capable of testing to LOCA conditions.

B-W had developed a valve actuator and had completed the prototype testing of a unit as a candidate for operation in a LOCA environment. They had completed details of a qualification test procedure that appeared adequate for qualification testing of the candidate valve actuator.

The National Technical Systems (NTS) test facility, Saugus, California, had been selected by B-W to conduct the qualification testing.

ORGANIZATION: BORG-WARNER
NUCLEAR VALVE DIVISION
VAN NUYS, CALIFIORNIA

REPORT NO.: 99900289/82-02	INSPECTION RESULTS:	PAGE 3 of 3
<p>The inspector visited the NTS facility as a guest of the B-W Manager, Remote and Manual Operators. The NTS management gave a presentation of the organizational structure and test facility capabilities for conducting tests to a LOCA environment. Details of the proposed qualification test schedule were examined. NTS agreed with the request by B-W that NRC Equipment Qualification Engineers inspect, examine, and witness selected phases of the total qualification test program, including related documented analyses and data.</p>		

Inspector J.R. Agee

Scope Equipment Qualification Testing DOCUMENTS EXAMINED

1	2	TITLE/SUBJECT	3	4
1	8	Preliminary Analysis Report No. 548-9311, Nuclear Equipment Analysis Report,	-	0
2	3	Hydraulic Modulating Operator P/N 85280	3/30/81	-
		Qualification Test Procedure for A Pneumatic-Hydraulic Modulating Operator, P/N 85270, Report No. 1844		

Document Types:
 1. Drawing
 2. Specification
 3. Procedure
 4. QA Manual
 5. Purchase Order
 6. Internal Memo
 7. Letter
 8. Other (Specify if necessary) ANALYSIS REPORT

Column Nos.
 1. Sequential Item No.
 2. Type of Document
 3. Date of Document
 4. Revision No., if applicable

PERSONS CONTACTED

Company Borg-Warner

Dates April 15-16/82

Docket/Report No. 99900289/82-02

Inspector J.R. Asee

Page 1 of 6

NAME (Please Print)	TITLE (Please Print)	ORGANIZATION (Please Print)
R.J. Rutkowski	Manager, Remote and	Borg-Warner
	Manual Operators	
W.R. Wheaton	Director, Engineering &	Borg-Warner
	Quality	