ORGANIZATION: G. H. BETTIS COMPANY

HOUSTON, TEXAS

REPORT NO.: 99900715/81-01 INSPECTION DATE(S): 7/13-14/81 INSPECTION ON-SITE HOURS: 13

CORRESPONDENCE ADDRESS: G. H. Bettis Company

ATTN: Mr. A. T. Locascio

Quality Assurance Manager

7031 Grand Boulevard Houston, TX 77021

ORGANIZATION CONTACT:

Mr. A. T. Locascio, Quality Assurance Manager

TELEPHONE:

(713) 748-1143

PRINCIPAL PRODUCT: Pneumatic hydraulic and electrical actuators and controls.

NUCLEAR INDUSTRY ACTIVITY: G. H. Bettis Company has orders for actuators that will be installed in the following nuclear plants: (1) Washington Public Power Supply System Nuclear Projects 1 and 4; (2) Carolina Power and Light Company-Shearon Harris Nuclear Power Plant, Units 1 and 4; (3) Tennessee Valley Authority: (a) Hartsville Nuclear Plant, Units 1 and 4; (b) Phipps Bend Nuclear Plant, Units 1 and 2. G. H. Bettis Company's contribution to the nuclear industry represents approximately two percent of its total work load.

ASSIGNED INSPECTOR:

m. D. Kelley, Reactive Inspection Section (RIS)

9-15-81

Date

OTHER INSPECTOR(S):

APPROVED BY:

1 Dames Chief D

I. Barnes, Chief, RIS

9-15-51

Date

INSPECTION BASES AND SCOPE:

- A. BASES: Implementation of 10 CFR Part 21, 10 CFR Part 50, Appendix B, and applicable codes and standards.
- B. SCOPE: This inspection was made as a result of the construction deficiency reports issued by Mississippi Power and Light Company concerning: (1) damaged wires in pneumatic actuator terminal boxes that had been sold to the Henry Pratt Company for assembly on valves supplied to Grand Gulf, Unit 2; and (2) failure of the eight 20-inch air operated Henry Pratt Company valves with G. W. Bettis Company actuators in the Grand Gulf, Unit 1, Containment and Drywell Heating Ventilation and Air Conditioning System to close within the specified four seconds. Additional areas inspected included: follow up of corrective action on G. H. Bettis Company 10 CFR Part 21 reported deficiency in N521C-SR actuators and status of previous inspection findings.

8110230473 810916 PDR GA999 EECBET 99900715 PDR Certified By Phlanne Fork, PIV

ORGANIZATION: G. H. BETTIS COMPANY HOUSTON, TEXAS

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A. VIOLATIONS:

None

B. NONCONFORMANCES:

None

C. UNRESOLVED ITEMS:

None

D. STATUS OF PREVIOUS INSPECTION FINDINGS:

(Closed) Deviation (80-01): Contrary to Criterion XVIII of Appendix B to 10 CFR Part 50 neither the QA Manual (Section 18.0) required follow-up action by reaudit of deficient areas to be performed, nor were such actions taken with respect to two deficiencies identified in Corrective Action Request CAR-0012 and CAR-0013.

The inspector verified that: (1) the QA Manual Section 18.0 had been revised and required follow-up action by reaudit of deficient areas; (2) a Follow-Up Action Report form had been developed and used to document corrective action taken; and (3) the forms had been implemented on other CAR's.

E. OTHER FINDINGS OR COMMENTS:

- Mississippi Power and Light Company's 'MP&LC) Construction Deficiency Reports.
 - a. Damaged Wires in the Pneumatic Actuator Terminal Boxes. The inspector was informed that the actuators furnished to the Henry Pratt Company (HPC) were the G. H. Bettis Company standard commercial actuators and no quality control records were maintained during manufacturing or testing.
 - b. Failure of Valves with G. H. Bettis Company Actuators to Close Within the Specified rour Seconds: The inspector was informed that site construction had bought and replaced the ASCO solenoid valves supplied by G. H. Bettis Company as an integral part of their actuators. Subsequent to the inspection, the inspector was informed by MP&LC personnel that the closure time had been evaluated as contributable to the purchase of the wrong solenoid valves and the correct solenoid valves had been ordered.

ORGANIZATION: G. H. BETTIS COMPANY HOUSTON, TEXAS

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2. Corrective Action on 10 CFR Part 21 Report - The inspector reviewed six customer purchase orders, ten sales orders, six shop orders, three customer specifications, and five letters to verify that all N521C-SR actuators identified by customers as requiring modifications had been corrected or shop orders had been issued to correct them in the shop prior to shipment.

3. Orientation of Pneumatic Actuators - The G. H. Bettis Company catalogue does not inform the purchaser, that pneumatic actuators are supplied to be mounted in the horizontal position, unless a different orientation is specified in the procurement documents.

The G. H. Bettis Company placed a "Hold" on all current orders and requested their customer to inform them of he installed orientation of the penumatic actuators.

Scope/Module 2 92 716 13 Inspector WM D. Kelley

DOCUMENTS EXAMINED

Bocket No. 99900715 Report No. 9/-0/

Document Types:

- Drawing
- Specification
 - Procedure QA Manual
- Purchas Order 008765
 - Internal Memo
 - Letter
- Other (Specify-if necessary)

 - Sales Order Shop order

Columns:

- Sequential Item Number
 - Type of Document
- Date of Document Revision (If applicable)

Inspector Nº D. Kelley Scope/Module 2 9 2 716 13

DOCUMENTS EXAMINED

Docket No. 99900715
Report No. 8/-0/
Page 2 of 4

1	2	TITLE/SUBJECT	3 4
4	7	G. H. Bethis to Tuffing Div. of Yomox Corp.	11-18-80 0
18	3	G. H. Betts to Henry Frott Co.	11-18-80 0
19	7	G. H. Bettes to Henry Prott Co.	01-26-81 0
20	7	Henry Pratt Co. to G.H. Bettis	05-20-81 0
21	9	G. H. Bettis 8-0634-00	06-29-78 0
22	10	G.H. Bettis 8-0634-00	01-17-77 0
23	10	G. H Bethis 78-0634-0A	06-19-81 0
24	9	G.H. Bettis 9-9023-00	05-29-19 0
25	10	G.H. Bettis 79-9023-00	03-27-79 0
24	9	GH Bettis 9-9024-00	25-29-79 0
27	10	G.H. Bettis 79-9024-00	04-30-79 0
28	2	Henry Proff Co 1353977	05-19-78
29	5	Henry Prott Co. B65493	07-05-78 0
30	10	G.H. Bettis 8-1515-00	07-25-78 0
3/	9	G.H. Bettis 8-1515-00	07-12-78 0
32	2	Henry PrattCo 1000674	

Document Types:

- 1. Drawing
- 2. Specification
- 3. Procedure
- 4. QA Manual
- 5. Purchas Order
- 6. Internal Memo
- 7. Letter
- 8. Other (Specify-if necessary)
- 9. Soles Order 10. Shop Order

Columns:

- 1. Sequential Item Number
- 2. Type of Document
- 3. Date of Document
- 4. Revision (If applicable)

Inspector WMD. Kelley Scope/Module 2 92 70 2 B

DOCUMENTS EXAMINED

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Report No. 81-01
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1	2	TITLE/SUBJECT	3	4
33	//	FAR # 0003 Internal Audit of the Quaity Assurance Program. CAR " 0016 "Corrosion problem concerning the 3R and 5 R Battiswitch"		
3-4	7	Henry Pratt Co. to NRG-RIII, Subject "Non-Compliance Reporting Under 100FR, Part 21, Sec. 206 of Energy Reorganization Act of 1979"	04/10/79	
35	7	Henry Pratt Co. to NRC-RII, Subject " Potential Defect Reporting Under 10CFR, Part 21, Section 206 of Energy Reorganization Act"	09/14/79	
34	7	Henry Pratt Co. to MPALC, Subject "Potential Defect Reporting Under 10CFR, Part 21, Section 206 of Friergy Reorganization Act.	08/20/79	

Document Types:

- 1. Drawing
- 2. Specification
- 3. Procedure
- 4. QA Manual
- 5. Purchas Order
- 6. Internal Memo
- 7. Letter
- 8. Other (Specify-if necessary)

9

- 11. Fallow Up Action Report.
 12. Correction Action Request

Columns:

- 1. Sequential Item Number
- 2. Type of Document
- 3. Date of Document
- 4. Revision (If applicable)

PERSONS CONTACTED

Company Gu	1,8	ettis	Co.	
Docket/Report	No.	999	00715	101-01

Dates July 13-14, 1981
Inspector WMD. Kelley

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NAME(Please Print)	TITLE(Please Print)	ORGANIZATION(Please Print)
B.S. Cornelius	Service Manager	G. H. Bettis, Co.
B. Reed	Application Engineer	G. H. Bettis, Ca.
C. Root	Service Representative	G. H. Bettis, Co.
A.T. Locascio	Quality Assurance Mgr.	G.H. Bettis. Co.