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REPORT NO.: 99900058/82-01	INSPECTION DATE(S)	2/8-11/82	INSPECTION ON-SITE HOURS: 60
F'o ATT 190 Ral ORGANIZATIONAL CONTACT: Mr.	0 South Saunder eigh, NC 27603	sion Grasso, General P rs Street B	lant Manager
PRINCIPAL PRODUCT: ASME Sect	ion III Class 1	L, 2, and 3 valves	s.
NUCLEAR INDUSTRY ACTIVITY: R tribution to the nuclear ind work load.			
ASSIGNED INSPECTOR: W. D. Ke (R&CPS) OTHER INSPECTOR(S): I. Barner	)	7 Components Prog	gram Section Date
APPROVED BY: 9.2 I. Barner	s, Chief, R&CPS		<u>3/18/82</u> Date
<ul> <li>INSPECTION BASES AND SCOPE:</li> <li>A. <u>BASES</u>: 10 CFR Part 50,</li> <li>B. <u>SCOPE</u>: This inspection 99900058/81-02 were made event report by the Caro disc separation in a main Steam Electric Station, (continued on next page)</li> <li>PLANT SITE APPLICABILITY:</li> <li>Records identified with the inspection: 50-324; 50-325;</li> </ul>	and the inspect as a result of lina Power and n steam isolati Unit 2; and (2)	: (1) the issuan Light Company con on valve installe the issuance of DESIGN Certified By ear facilities wer	nce of a licensee ncerning a stem to stem ed at the Brunswick a licensee event ATED ORICINAT: Manne Huts
8204080435 820323 PDR GA999 EMVRDCI 99900058 PDR			

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NO.: 9	9900058/82-01	RESULTS:	PAGE 2 of 5

<u>SCOPE</u> (cont.) report by the Georgia Power Company concerning a stem to stem disc separation in a main steam stop valve installed at the E. I. Hatch Nuclear Plant, Unit 2. The areas included in this inspection were the manufacturing process control provisions utilized in the manufacture of main steam isolation valves, with specific emphasis placed on controls for assembly, pin insertion and plug welding.

### A. VIOLATIONS:

None

### B. NONCONFORMANCES:

- Contrary to Criterion V of Appendix B to 10 CFR Part 50 and Section 9, Revision 8, of the QA Manual, review of the Valve Route Card for a completed and shipped 26" 1612 (WCC) JMMNTY main steam isolation valve (Black Fox Nuclear Project 2, Serial No. PI-38) showed the following examples of the failure of applicable personnel to sign and/or date operations to denote completion:
  - Sequence No. 070 was not signed by either manufacturing or Quality Assurance personnel.
  - b Sequence Nos. 050, 060, 090, 100, 110, 120, 130, and 260 were not signed by supervisory personnel to denote verification of operation completion. Personnel performing the operations were identified on the Route Card, but dates of completion had not been entered.
  - c. Sequence No. 160 was not signed by a Rockwell Inspector and Sequence Nos. 170, 260, 280, 290, and 311 had been signed but not dated by a Rockwell Inspector.
- 2. Contrary to Criterion V of Appendix B to 10 CFR Part 50 and Section 6, Revision 7, of the QA Manual, the Valve Route Card applicable to the ASME Section III Code Class 1 valve identified in B.1 above did not indicate the correct Method Specification number to be used for assembly of the stem to stem disc and assembly of the main disc to piston assembly; i.e. Method Specification 7736LR was listed on the Route Card to be used for the assembly operations, whereas Method Specification 7718, Revision 0 was the applicable issued specification.

REPONO.		99900058/82-01	INSPECTION RESULTS:	PAGE 3 of 5
	3.	NB-4432 in Section were welded to stem steam isolation val without specificati	on V of Appendix B to 10 CFR P III of the ASME Code (1971 Edi discs and main discs (pressur ves which had been furnished t on or evidence of use of weldi in accordance with Section IX	ition), locking pins re parts) in main to E. I. Hatch, Unit 2, ing procedures that
2.	UNR	ESOLVED ITEMS		
	None	e		
D.	STA	TUS OF PREVIOUS INSPE	CTION FINDINGS:	
	1.	Furnishing of spare Station with oversi	nconformance, Inspection Repor stems and discs to the Brunsw zed disc female threads and un ard to Class 3 requirements.	vick Steam Electric
		The status of this tion, as a result o this item.	nonconformance was not reviewe f correspondence not having be	ed during this inspec- een completed on
	2.	Applicability of Ap	tem, Paragraph C, Inspection R pendix B to 10 CFR Part 50 to cs by Carolina Power and Light	the procurement of
		CP&L Purchase Order 10 CFR Part 50 as b discs, had not been	were informed, that a copy of No. 716707 specification of A eing applicable for the supply located. Resolution of this mpletion of the response to th ove.	Appendix B to of spare stems and icom has been

## E. OTHER FINDINGS OR COMMENTS:

- 1. Assembly of Main Steam Isolation Valves Furnished to Brunswick, Units 1 and 2, and E. I. Hatch, Unit 2
  - a. The NRC inspectors were unable to review the assembly history of these valves, as a result of being informed by Rockwell personnel that Route Cards were only used for piece manufacture in the time frame these valves were produced.

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2.	contained E. I. Hato for valve (see parag the use of locking pi	on of Special Engineering Instructio the Rockwell requirements for manuf th, Unit 2, valves, revealed no spec assembly. One nonconformance was i graph B.3) in regard to the failure a qualified welding procedure for ns to the stem disc and main disc.	acture of the ific criteria dentified to specify welding of
	a. A review was ma JMMNTY main ste been furnished review was made control provisi	ide of the Valve Route Card for a 26 am isolation valve, Serial No. PI-38 to Black Fox Nuclear Project 2 duri in order to determine the current ons for this design of valve, and to specified requirements during manuf	" 1612 (WCC) 8, which had ng 1981. This assembly process o ascertain
	from that utili i.e., locking p by plug welding method had been During this rev was identified Specification 7 applicable spec piston assembly a Rockwell Insp operations in a On request to s was informed th customer reques 7718, Revision	showed a difference existed in assized for the Brunswick and E. I. Hate ins were retained by mechanical state. The NRC inspector was informed to utilized for valves shipped since of iew, one nonconformance (see paragra pertaining to the identity of the Mu tilized for staking of locking pins 736LR was listed on the Valve Route ification to be used for stem to state. Sequence Nos. 080 and 110 were s sector indicating acceptance of these accordance with Method Specification, the Nu at this specification had been replace to by inserting the content in Method 0. No information we sprovided in se the Route Sheet, or the basis for spector.	ch valves; king and not hat this early 1979. aph B.2) ethod Card as the em disc to igned off by e assembly 7736LR. RC Inspector aced at d Specification regard to the
	in regard to th facturing proce of manufacture	onconformance (see paragraph B.1) we be failure to comply with the QA pro- ss control requirements in existence of this valve. Review of the current or manufacturing process control (See	gram manu- e at the time nt QA program

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	in sign off req Quality Assuran	ptember 3, 1981) showed a change had be uirements. The present revision now re ce personnel to sign off only inspectio oute Card and not all operations.	quires
	December 3, 198 processing for Assurance respond and correctnes prior to moving however, on Piec Rockwell Inspect inspection opera the Rockwell Ins the part. An opera	ard Operating Instruction (SOI) 40-19-0 1, which pertains to documentation gath nuclear valves, indicates it is a Quali nsibility to review Route Cards for com (after performance of indicated operat material to stores. No operation was ce Route Cards which clearly required t tor to perform this function; i.e., the ation prior to moving material to store spector to only visually and dimensiona peration requiring review for completen Valve Route Card which is used for asse	ering and ty pleteness ions) listed, he final s required lly inspect ess was
	status of five r torque wrenches were identified however, that the a torque multip The NRC inspecto in the calibrat	as performed with respect to the calibr micrometers, one dial bore gage, and al used in valve assembly. No nonconform in this area of inspection. It was es he present calibration program did not lier used with torque wrenches in valve or was informed that this device would ion program to assure necessary accurac be made on this subject at a future ins	l current ances tablished, include assembly. be included v. A
	return of device bration records.	or additionally noted that the reasons es for repair were not always entered i . As a result, positive verification t related to device accuracy could not be	n the cali- hat a
3.	Manufacturing Process	s Control-Present Work	
	in manufacture during process control and o	rformed in regard to the compliance of g the inspection, with respect to QA pr customer specification requirements. N ified in this area of inspection.	ogram

· .	PERSONS
Company Rockwell Internat	ional
Docket/Report No. 99900058/82	-01

S CONTACTED

Dates Feb. 8-11, 1982 Inspector WMD. Kelley Page 1 of 7

NAME(Please Print)	TITLE(Please Print)	ORGANIZAT	ION(Pleas	se Prin	nt)
J.V. Greasso	General Plant Manager	Rockwell Inter	national-1	Elaw Co	ntrol
B.E. Carothers	Supr. Metallurquist Process Con	Fol "	<i>n</i>	"	13
W.F. Kindsvatter	Materials Manager	11		//	41
D.J. Webb	Manufacturing Manager	11	17	17	4
J.L. Adama	Product Engineering Supr	0	R	**	- ()
D.L. Creech	Supr. Materials Engineering	А	11	11	11
B.E. Hildrath, Jr.	Contracts Administration	a	4	11	1.
R.D. Norden	Product Engineer	1.	h	h	"1
R.A. Bandukwala.	Manager Quality Assurance	4	16	10	
E.L. Green	Chief Inspector	t <sub>s</sub>	4	k	. 1,
W.G. Rains	Supr. QA Engineering	1.	11		"
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Inspector WM D. Kelley Scope 2429018\$-28 2729028

DOCUMENTS EXAMINED

Docket No. 99900058. Report No. \_ 82-01

Page 2 of 7

			3	
Item No.	Doc. Type	TITLE/SUBJECT	Doc Date	Doc Rev
01		Quality Assurance Manual	9/3/81	9
02	2	Development of Quality Assurance Plan 36-40-09-02	7/5/79	
03		RI-FCD Valve Certification Test & Inspection Data	-	-
		Tag No B21-FOZZA GPC-EI Hatch		
_04_	8	-RI-FCD Valve Field-Service Data - Georgia PowerCo.	3/8-17/81	
•		E.I. Hatch MSIV-2B21-FOZZA		
05	_2	GE-NED Spec. 21A9230 Main Steam Isolation Values	2/10/71	2
06	8	RI-FCD Route Card Part No 427531 Sten Disc		-
. 07	8	RI-FCD Route Card Part No. 181000 Stem RI-FCD Route Card Part No. 4275(3)		-
08	8	RI-FCD Route Card Part No. 427563 Pisc	~	~
09		RI-FCD List of Operation Rescriptions	11/6/81	
10		RI-FCO Route Card Part No. 410343 Disc (PL Bransack)		
	8	RI-FCD Route Card Part No. 410343 Disc (PL Branzanit) RI-FCD Route Card Part No. 410336 Stempischerungenit	2	
12	8	RI-FCR Route Card Part No. 412520 Stem (CPL Brunswick		
13	2	GE-NED Spec 21A 9257 General Requirements for	11/8/71	3
		Main steam Isolation Valves - GPC-Hatch IF	6-26-72	7
		RI-FCD special Engineering Instructions 408 (GPC HatchTL		
14	8	GE (N-Stamp Classi) ASME Section IL 1911 Winter Addenda	1	

Document Types:

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

InspectorScope	Enspector WmD Keller Scope 24290184 2729028	Celley Docket No. 9 DIB 4-2B 22B DOCUMENTS EXAMINED Report No. 9 Report No. 9 Page	9999 c	00008. -01
Item No.	Doc. Type	TITLE/SUBJECT	Doc Date	Doc Rev
15		P419500 Rockwell-Edu		U
14		PI-FCD Dwy No 12419501 Rockwell- Edwards Flips-Flow Stop. Value Fin 1612 JMMWY E. GE-ADED (CAL BOWENCH)		Q
17	/ /	12 Dug No. 6-427563 Disk		B
81.	1	RI-FED Dwg No. C-427562 Dist S.F (GPC-EI Hakh		A
61	1	RI-FCD Dwey No. D- 427531 Disk Stem Cape-El Hatch		8
20	/	RI-FCD Dwg No. C - 427502 Stem CaPC-FIHatel		0
12.		RI-FCD Dwg No. C-40 8143 Distr (CPL-Baurwick)		В
22	1	RI-FCD Dug No. Q-408177 Disk Stem (CPL-acunswick)		0
23	1	RI-FLID Dwg No. 12 - 410354 Stem (CPL-Brunswick)		F
24	0	RI-FLO Manifacturing Reute Land Part No 00724629-14589-11	1	}
. 25	2	Iding Method Spec MS-P1-		0
36	2	RI-FC O Welding Wethod Spec MS-PI-A31 N Hardsurfacting		0
		E Carbon Steel (Plasma No. 1)		
27	2	RI-FCD Welding Mothod Spee MO-FI 741 N Hardsur Facility PI Material Without PWHT		Ō
Docume	Document Types:			

5. 8. Document Types: 1. Drawing 2. Specification 3. Procedure 4. QA Manual

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- Purchas Order Internal Memo
- Letter Other (Specify-if necessary)

Inspecto	Inspector INT D. Kelley Scope 24290134- 2729023	2B DOCUMENTS EXAMINED Report	No. 99900050 No. 82-01 Page 2 of 1	01 10
Item Nb.	Doc. Type	TITLE/SUBJECT	Doc Date	Doc Rev
28	80	RI-FLD Permanent Records for Valve Seriel No 2001030 101 601 5 1000 40 01 10 01		
29	2	150		0
30	8	CD Record at	7/19/76	
31	0	Mhy Route		
	1-1-	R-FCD Welding Method Spec. MS-PI-32IN-Repair of P-1 Materials without PWHT		/
33	5	UE & C. Purchase Order No SNH-570 9763.006-248-65	6/24/80	
34	2	UE & Speer for Main Acam Isolation Values No 9763 rol 24865	-3/14/80	
35	8	UE & C Quality Assurance Administration & Sustem . Rouicements for Nuclear Safety Class Hews No 9713-048-1	8/16/03	
36	Ø	titication at	11/1	
37	8	cord of Welder Performance Qual fice	8/18/76	
38	Ø	Record of Welder Performance qualification Record 848	1/19/16	

Purchas Order Internal Memo 8....

- Document Types: 1. Drawing 2. Specification 3. Procedure 4. QA Manual
- Letter Other (Specify-if necessary)

Inspector	- WMD. Keller 24290184 - 2729023	2B DOCUMENTS EXAMINED BOCKNER Report	No. 99900058 No. 82-01 Page 5 of 7	01 01
Item No.	Doc. Type	TITLE/SUBJECT	Doc Date	Doc Rev
39	5	CE Purchase Order 9972952-1-074	10/30/19	
40	2	CE Project Spec. No 14074- PE-724 for Pewer		1
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41	2	CE Vendor Quality Control Prearam Sec. 0000-W0011		D
42	/	RI-FLD Dwg No. DEC-21863-01 Equivedge Gate Valve.		B
		with A260 Actuator 30x24x30 - Fig 1911 (NCC)		
43				B
		Waterials Equivedae Gate Value with A260 Actuator		
. 44	1	RI-FCO Dwg No PD156863 Sheef 1 General Assembly		D
.		of Equivedac late Value with A210 6-5X-19 Actuated		
45	2	RI-FCD Standard Cheratine Presenter # - 40-60-01	12/21/81	
46	00			
47		RI-170 Drawing B-1308019-20" 1911Y Retainer Gasket		0
48	00	RI-FCD Mfn. Route Card 00188027-23167-11		1
49	1	RI-FCD Dian. No D-410354 Stem		T
50	80	PI-FCD Rework Ticket No R. 52364 - 30° Check Valve		
. 51	z	RI-FCD Standard Operating Instruction 20-59-02 Gage Identification Calibration Intervals and Instructions	1/13/82	
Document	nt Types:			

Document Types: 1. Drawing 2. Specification 3. Procedure 4. QA Manual

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- Purchas Order Internal Memo
- 6...
- Letter Other (Specify-if necessary)

Item No.     Doc. Type     TITLE/SUBJECT       52     R     R1-FCC2 Welding Method Spec. P1-111N Repair       53     R     Attachment Welds with PWHT       53     R     R1-FCC2 Welding Method Spec. P1-211N Repair       54     R     R1-FCC2 Method Spec. P1-211N Repair       55     I     R1-FCC2 Method Spec. P1-211N Repair       57     I     R1-FCC2 Method Route Card P2+1 No. 0131       58     R1-FCC2 Method Route Card P2+1 No. 0131       59     R     R1-FCC2 Method Route Card P2+1 No. 0131       50     R     R1-FCC2 Method Route Card P2+1 No. 0131       59     R     R1-FCC2 Method Route Card P2+1 No. 0131       50     R     R1-FC2 Method Route Card P2+1 No. 0131       51     R     FCC2 Dupp C19-6424	1 d 4 d 101 4	Doc Date	Doc Rev
2 RI-FCO Welding Method 2 RI-FCO Welding Method 2 RI-FCO Welding Method 4 Hachment Welds with 8 RI-FCO Dwg No. 0-1 8 RI-FCO Dwg No. 0-1 8 RI-FCO Dwg No. 0-1 8 RI-FCO Mfg Route (2 8 RI-FCO RI 8 RI-FCO RI 8 RI-FCO RI 8 RI 8 RI -FCO RI 8 RI	Spec. PI-IIIN Repair Fillet 4 h RWHT Spec. PI-ZIIN Repair Fillet 9 th PWHT Part No. CO 198721-21863-CI 198721 Calinder Weldmint 198721 Calinder Weldmint 198721 Calinder Weldmint 198721 Calinder Weldmint		
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B RI-FCD MF Raute Card RI-FCD MF Raute Card RI-FCD Dug No. D-1 RI-FCD Dug No. D-1 RI-FCD MF Route Ca RIFCD MF Route Ca RI-FCD MF Route Ca	th PWHT Part No. 00138721-21863-01 198721 Calinder Weldment ind Part No. 0139135-21277-01		0
RI-FCO MF, Raute Land RI-FCO Dwg No. 0-1 RI-FCO NG Route Ca RI-FCO NG Route Ca RI-FCO MG Route Ca	Part No. 00198721-21863-01 198721 Calinder Weldment ind Part No. 0139135-21277-01		0
RI-FCD Ding No. 0-1 RI-FCD MG Route (2) RI-FCD Ding No D RI-FCD MG Pointe (2) RI-FCD MG Pointe (2) RI-FCD MG Route (2) RI-FCD MG Route (2) RI-FCD Ding CI38	198721 Calinder Weldment ind Part No. 0139135-21277-01 0-1391226-52024 52 1911 84		0
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RIFED MAG Route Ca Body Ass'4: TH B RIFED MAG Route Ca B RIFED MAG Route Ca B RIFED MAG Route Ca B RIFED MAG Route Ca RI-FED MAG Route Ca	-1391226-Sze 24x20x74 5% 1911 RV		
8 RIFCD MG Poute Ca 8 RIFCD MG Poute Ca 8 RIFCD MG Route Ca 8 RIFCD MG Route Ca 1 RI-FCD Dwg C198			0
8 RIFED MAG Pointe Ca 8 RIFED MAG Route Ca 8 RI-FED MAG Route Ca 1 RI-FED Dwg C198	ne B.		
8 RIFED MAY Route Co 8 RI-FED MAY Route Co 1 RI-FED Dwg C198	and Part No. 01313123 - 21277-01		
1 RI-120 Dug	and Part No. 01313079-21277-01		
Dwg	Route Card Part No. 00198424-2127701		
	198424 Rod Actuator Model A260		
62 5 Cleveland Eleci Illumarating Co. P.O 12-34		518/81	
63 2. Gilbert Association Speci 59-521-03-454	5P-521-03-4549-00 Design,		
Fabrication and Delivery of Satety Rela	wery of Satety Related Gate Globe		
and Check Values 2'2" and Larger	" and Larger		
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- 8... 8... Document Types: 1. Drawing 2. Specification 3. Procedure 4. QA Manual
- Purchas Order Internal Memo Letter Other (Specify-if necessary)

Inspectar J Scope -	Inspector WMD. Ke Scope 24290184 2729028	Kelley U.B. 4-2B 02.B	Docket No. 99900058 Report No. 82-01 Page Z of Z	001
Item No.	Doc. Type	TITLE/SUBJECT	Doc Date	Doc Rev
64	20	RIFECD Data Package on CEI 20" Check Value.		
65	θ	FLD Training Records	(501/5	
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Docume	Document Types:			

- Purchas Order Internal Memo Letter Other (Specify-1f necessary)

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- Drawing Specification Procedure QA Manual