

# INSERVICE INSPECTION SUMMARY

1st Interval, 3rd Period  
6th Refueling Outage  
1-3-06

Completed 10/12/95

Carolina Power & Light Company  
P. O. Box 1551  
Raleigh, North Carolina 27602

Shearon Harris Nuclear Power Plant - Unit 1  
P. O. Box 165  
New Hill, North Carolina 27562

Commercial Operation May 2, 1987

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PDR ADDCK 05000400  
G PDR

# INDEX

SUMMARY	Section 1
NIS-1 FORMS REPORT OF INSERVICE INSPECTIONS	Section 2
POST OUTAGE EXAMINATION RESULTS REPORT	Section 3
COMPONENT SUPPORTS	Section 4
NIS-2 FORMS REPORT OF REPAIRS AND REPLACEMENTS	Section 5

**SECTION 1**

Summary

## SUMMARY

The Shearon Harris Nuclear Power Plant, Unit 1 (HNP) Ten Year Inservice Inspection (ISI) Plan was developed pursuant to 10 CFR 50.55 a(g) which implemented, by reference, the 1983 Edition through the Summer 1983 Addenda of Section XI of the ASME Boiler and Pressure Vessel Code.

This summary report is being submitted pursuant to the reporting requirements of Section XI, Article IWA-6220(b). This ISI Summary Report addresses the examinations performed on Class 1 and 2 piping, components and their supports at HNP, between May 13, 1994 and October 12, 1995. This duration encompasses Cycle Six operations including Refueling Outage No. Six. These examinations constitute the first of two inspections to be conducted in the third inspection period and is designated 1-3-06 (First Interval, Third Period, Sixth Refueling Outage) in the enclosed listings.

The components were selected from the HNP Ten Year Inservice Inspection Plan. The components selected for examination consisted of piping system welds, vessel welds, component supports, integral attachments and bolting. Nondestructive examinations were performed using Magnetic Particle (MT), Liquid Penetrant (PT), Ultrasonic (UT), and Visual (VT) methods.

With regard to examination of piping and component welds, where the full examination could not be performed as a result of component configuration, adjacent part, or physical restriction, the condition was identified by noting the applicable relief request in the summary listing in Section 3.

Relevant indications or conditions found during nondestructive piping and component weld examinations were identified and documented on the affected examination report. Relevant indications or conditions exceeding the allowable limits specified in the NDE procedures were evaluated in accordance with the provisions set forth in ASME Section XI, IWA-3000.

No piping or component weld indications rejectable by ASME Section XI, IWA-3000 criteria were detected during this outage.

With regard to the ISI Component Support Program, approximately one half of the exams remaining in the first Interval were performed during this inspection (642 of the 1292 scheduled for the third period). The summary listing in Section 4 shows the component support examinations. There were no visual failures observed based on the acceptance standards of IWF-3400.

**SECTION 2**

NIS-1 FORMS  
REPORT OF INSERVICE INSPECTIONS

**FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS**  
As required by the Provisions of the ASME Code Rules

1. Owner Carolina Power & Light Company, Raleigh, N.C.  
(Name and Address of Owner)

2. Plant Shearon Harris Nuclear Plant, New Hill, N.C. 27562  
(Name and Address of Plant)

3. Plant Unit One (1) 4. Owner Certificate of Authorization (if required) N/A

5. Commercial Service Date 5/2/87 6. National Board Number for Unit 65

7. Systems/Components Inspected (See Systems listed below and Section 3 & 4)

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Reactor Vessel	Chicago Bridge & Iron	T40	NC212410	4
Auxiliary Feedwater	CP&L	AF	N/A	49
Blowdown	CP&L	BD	N/A	44
Chemical & Volume Control	CP&L	CS	N/A	48
Containment Spray	CP&L	CT	N/A	63
Feedwater	CP&L	FW	N/A	54
Main Steam	CP&L	MS	N/A	59
Reactor Coolant	CP&L	RC	N/A	55
Residual Heat Removal	CP&L	RHR	N/A	38
Steam Generator - A	Westinghouse	1631	NC203043	W11304
Steam Generator - B	Westinghouse	1632	NC203044	W11309
Steam Generator - C	Westinghouse	1633	NC203045	W11307
Pressurizer	Westinghouse	1641	NC212409	W11306
Safety Injection	CP&L	SI	N/A	46
Service Water	CP&L	SW	N/A	64
RHR Heat Exchanger - A	Joseph Oat Corp.	2168-1B7	NC203028	740
Reactor Coolant Pump - A	Westinghouse	1-115E111G01	N/A	16
Reactor Coolant Pump - B	Westinghouse	2-115E111G01	N/A	17
Reactor Coolant Pump - C	Westinghouse	3-115E111G01	N/A	18
Boron Injection Tank 1X-SAB	SWF	0077	N/A	441

FORM NIS-1 (Back)

8. Examination Dates 5/13/94 to 10/12/95 9. Inspection Interval from 5/2/87 to 5/1/97

10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. (See Sections 3 & 4)

11. Abstract of Conditions Noted (See Sections 3 & 4)

12. Abstract of Corrective Measures Recommended and Taken. (See Sections 3, 4 & 5)

We certify that the statements made in this report are correct and the examinations and corrective measures taken conform to the rules of the ASME Code, Section XI.

Certificate of Authorization No. (if applicable) N/A Expiration Date N/A

Date January 2, 1996 Signed CP&L By W. A. Slone

**Certificate of Inservice Inspection**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by Hartford Str. Blr. Insp. and Ins. Co. of Hartford, CT. have inspected the components described in this Owner's Report during the period 5/13/94 to 10/12/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Stephen B. Dayton Commissions NC1042  
Inspector's Signature National Board, State, Province, and Endorsements

Date JAN 2 1996

**SECTION 3**

**POST OUTAGE EXAMINATION RESULTS REPORT**



Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination: Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : B-B      PRESSURE RETAINING WELDS IN VESSELS OTHER THAN THE RV  
 Item No. : B2.40      SG PRIMARY SIDE TUBESHEET-TO-HEAD WELDS

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam		Cal Standard	Exam Result	Credit		Relief Request	Indication	
				A	B		Type	Exam Date			XI	TS		Type	Resolution
TMAN1440C264F1-2	RC	II-SG-001SGC-TSTHW-06	VTSTHW	C508-1	C533-1	S-G-800	UT-45S	09/09/1995	UT0511	PASS	Y		R1-004		
							UT-60S	09/09/1995	UT0511	PASS	Y		R1-004		
							UT-00	09/08/1995	UT0511	PASS	Y		R1-004		

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : B-DB      FULL PENETRATION WELDS OF NOZZLES IN VESSELS - PROGRAM B  
 Item No. : B3.130      SG PRIMARY NOZZLE-TO-VESSEL WELDS - PROGRAM B

<u>ISI Drawing</u>	<u>System</u>	<u>Component Number</u>	<u>Component Description</u>	<u>Material</u>		<u>Boundary Drawing</u>	<u>Exam</u>		<u>Cal Standard</u>	<u>Exam Result</u>	<u>Credit</u>		<u>Relief Request</u>	<u>Indication Type</u>	<u>Indication Resolution</u>
				<u>A</u>	<u>B</u>		<u>Type</u>	<u>Exam Date</u>			<u>XI</u>	<u>TS</u>			
TMAN1440C264F1-1	RC	II-SG-001SGC-CLNTVW-12	VNTVW0	C508-1	C533-1	5-G-800	UT-00	09/08/1995	UT0511	PASS	Y		R1-006		
							UT-45S	09/08/1995	UT0511	PASS	Y		R1-006		
							UT-60S	09/08/1995	UT0511	PASS	Y		R1-006		
TMAN1440C264F1-1	RC	II-SG-001SGC-HLNTVW-07	VNTVWI	C508-1	C533-1	5-G-800	UT-00	09/08/1995	UT0511	PASS	Y		R1-006		
							UT-45S	09/08/1995	UT0511	PASS	Y		R1-006		
							UT-60S	09/08/1995	UT0511	PASS	Y		R1-006		

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : B-DB      FULL PENETRATION WELDS OF NOZZLES IN VESSELS - PROGRAM B  
 Item No. : B3.140      SG PRIMARY NOZZLE INSIDE RADIUS SECTION - PROGRAM B

<u>ISI Drawing</u>	<u>System</u>	<u>Component Number</u>	<u>Component Description</u>	<u>Material</u>		<u>Boundary Drawing</u>	<u>Exam</u>		<u>Cal Standard</u>	<u>Exam Result</u>	<u>Credit</u>		<u>Relief Request</u>	<u>Indication Type</u>	<u>Indication Resolution</u>
				<u>A</u>	<u>B</u>		<u>Type</u>	<u>Exam Date</u>			<u>XI</u>	<u>TS</u>			
TMAN1440C264F1-1	RC	II-SG-001SGC-CLNIR-09	VNIR	C508-1	C533-1	5-G-800									
							UT-30S	09/08/1995	UT0511	PASS	Y				
TMAN1440C264F1-1	RC	II-SG-001SGC-HLNIR-09	VNIR	C508-1	C533-1	5-G-800									
							UT-30S	09/08/1995	UT0511	PASS	Y				

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Page: 4  
 Date: 12/22/1995  
 Revision: 20

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : B-G-1      PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER  
 Item No. : B6. 10      RV CLOSURE HEAD NUTS      (> 2")

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam		Cal Standard	Exam Result	Credit		Relief Request	Indication Type	Indication Resolution
				A	B		Type	Exam Date			XI	TS			
CBI-34	RC	II-RV-001RVNUT-39	BNUT		C540-3	5-G-800	MT	09/15/1995		PASS	Y				
CBI-34	RC	II-RV-001RVNUT-40	BNUT		C540-3	5-G-800	MT	09/15/1995		PASS	Y				
CBI-34	RC	II-RV-001RVNUT-41	BNUT		C540-3	5-G-800	MT	09/15/1995		PASS	Y				
CBI-34	RC	II-RV-001RVNUT-42	BNUT		C540-3	5-G-800	MT	09/15/1995		PASS	Y				
CBI-34	RC	II-RV-001RVNUT-43	BNUT		C540-3	5-G-800	MT	09/15/1995		PASS	Y				
CBI-34	RC	II-RV-001RVNUT-44	BNUT		C540-3	5-G-800	MT	09/15/1995		PASS	Y				
CBI-34	RC	II-RV-001RVNUT-45	BNUT		C540-3	5-G-800	MT	09/15/1995		PASS	Y				
CBI-34	RC	II-RV-001RVNUT-46	BNUT		C540-3	5-G-800	MT	09/15/1995		PASS	Y				
CBI-34	RC	II-RV-001RVNUT-47	BNUT		C540-3	5-G-800	MT	09/15/1995		PASS	Y				
CBI-34	RC	II-RV-001RVNUT-48	BNUT		C540-3	5-G-800	MT	09/15/1995		PASS	Y				
CBI-34	RC	II-RV-001RVNUT-49A	BNUT		C540-3	5-G-800	MT	09/15/1995		PASS	Y				
CBI-34	RC	II-RV-001RVNUT-50	BNUT		C540-3	5-G-800	MT	09/15/1995		PASS	Y			SURF, LINEAR < CODE SIZE	

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : B-G-1      PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER  
 Item No. : B6. 10      RV CLOSURE HEAD NUTS      (> 2")

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam		Cal Standard	Exam Result	Credit		Relief Request	Indication	
				A	B		Type	Exam Date			XI	TS		Type	Resolution
CBI-34	RC	II-RV-001RVNUT-50	BNUT	C540-3	5-G-800		MT	09/15/1995		PASS	Y				
CBI-34	RC	II-RV-001RVNUT-51	BNUT	C540-3	5-G-800		MT	09/15/1995		PASS	Y				
CBI-34	RC	II-RV-001RVNUT-52	BNUT	C540-3	5-G-800		MT	09/15/1995		PASS	Y				
CBI-34	RC	II-RV-001RVNUT-53	BNUT	C540-3	5-G-800		MT	09/15/1995		PASS	Y				
CBI-34	RC	II-RV-001RVNUT-54	BNUT	C540-3	5-G-800		MT	09/15/1995		PASS	Y				
CBI-34	RC	II-RV-001RVNUT-55	BNUT	C540-3	5-G-800		MT	09/15/1995		PASS	Y				
CBI-34	RC	II-RV-001RVNUT-56	BNUT	C540-3	5-G-800		MT	09/15/1995		PASS	Y				
CBI-34	RC	II-RV-001RVNUT-57	BNUT	C540-3	5-G-800		MT	09/15/1995		PASS	Y				
CBI-34	RC	II-RV-001RVNUT-58	BNUT	C540-3	5-G-800		MT	09/15/1995		PASS	Y				

SURF, LINEAR < CODE SIZE

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Page: 6  
 Date: 12/22/1995  
 Revision: 20

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : B-G-1      PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER  
 Item No. : B6. 30      RV CLOSURE STUDS, WHEN REMOVED      (> 2")

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam		Cal Standard	Exam Result	Credit		Relief Request	Indication Type	Indication Resolution
				A	B		Type	Exam Date			XI	TS			
CBI-33	RC	II-RV-001RVSTUD-39	BSTUD	C540-1	C540-3	5-G-800	UT-00	09/12/1995	STUD	PASS	Y				
							MT	09/15/1995		PASS	Y			SURF, LINEAR < CODE SIZE	
CBI-33	RC	II-RV-001RVSTUD-40	BSTUD	C540-1	C540-3	5-G-800	MT	09/15/1995		PASS	Y				
							UT-00	09/12/1995		PASS	Y			SURF, LINEAR < CODE SIZE	
CBI-33	RC	II-RV-001RVSTUD-41	BSTUD	C540-1	C540-3	5-G-800	UT-00	09/12/1995	STUD	PASS	Y				
							MT	09/13/1995		PASS	Y				
CBI-33	RC	II-RV-001RVSTUD-42	BSTUD	C540-1	C540-3	5-G-800	UT-00	09/12/1995	STUD	PASS	Y				
							MT	09/13/1995		PASS	Y				
CBI-33	RC	II-RV-001RVSTUD-43	BSTUD	C540-1	C540-3	5-G-800	MT	09/13/1995		PASS	Y				
							UT-00	09/12/1995		PASS	Y				
CBI-33	RC	II-RV-001RVSTUD-44	BSTUD	C540-1	C540-3	5-G-800	MT	09/13/1995		PASS	Y				
							UT-00	09/12/1995		PASS	Y				
CBI-33	RC	II-RV-001RVSTUD-45	BSTUD	C540-1	C540-3	5-G-800	MT	09/14/1995		PASS	Y				
							UT-00	09/12/1995		PASS	Y				
CBI-33	RC	II-RV-001RVSTUD-46	BSTUD	C540-1	C540-3	5-G-800	UT-00	09/12/1995	STUD	PASS	Y				



Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Page: 8  
 Date: 12/22/1995  
 Revision: 20

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : B-G-1      PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER  
 Item No. : B6. 30      RV CLOSURE STUDS, WHEN REMOVED      (> 2")

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam		Cal Standard	Exam Result	Credit		Relief Request	Indication Type	Indication Resolution
				A	B		Type	Exam Date			XI	TS			
CBI-33	RC	II-RV-001RVSTUD-54	BSTUD	C540-1	C540-3	5-G-800	UT-00	09/12/1995	STUD	PASS	Y				
							MT	09/15/1995		PASS					
CBI-33	RC	II-RV-001RVSTUD-55	BSTUD	C540-1	C540-3	5-G-800	MT	09/15/1995		PASS	Y				
							UT-00	09/12/1995		PASS					
CBI-33	RC	II-RV-001RVSTUD-56	BSTUD	C540-1	C540-3	5-G-800	MT	09/14/1995		PASS	Y				
							UT-00	09/12/1995		PASS					
CBI-33	RC	II-RV-001RVSTUD-57	BSTUD	C540-1	C540-3	5-G-800	MT	09/14/1995		PASS	Y				
							UT-00	09/12/1995		PASS					
CBI-33	RC	II-RV-001RVSTUD-58	BSTUD	C540-1	C540-3	5-G-800	UT-00	09/12/1995	STUD	PASS	Y				
							MT	09/14/1995		PASS					



Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Page: 9  
 Date: 12/22/1995  
 Revision: 20

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : B-G-1      PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER  
 Item No. : B6. 50      RV CLOSURE WASHERS, BUSHINGS      (> 2")

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam		Cal Standard	Exam Result	Credit		Relief Request	Indication Type	Indication Resolution
				A	B		Type	Exam Date			XI	TS			
CBI-34	RC	II-RV-001RVWSH-39	BWASH	C540-1		5-G-800									
CBI-34	RC	II-RV-001RVWSH-40	BWASH	C540-1		5-G-800	VT-1	09/14/1995		PASS	Y				SURF, LINEAR REF ONLY, OK
CBI-34	RC	II-RV-001RVWSH-41	BWASH	C540-1		5-G-800	VT-1	09/14/1995		PASS	Y				
CBI-34	RC	II-RV-001RVWSH-42	BWASH	C540-1		5-G-800	VT-1	09/14/1995		PASS	Y				
CBI-34	RC	II-RV-001RVWSH-43	BWASH	C540-1		5-G-800	VT-1	09/14/1995		PASS	Y				
CBI-34	RC	II-RV-001RVWSH-44	BWASH	C540-1		5-G-800	VT-1	09/14/1995		PASS	Y				
CBI-34	RC	II-RV-001RVWSH-45	BWASH	C540-1		5-G-800	VT-1	09/14/1995		PASS	Y				
CBI-34	RC	II-RV-001RVWSH-46	BWASH	C540-1		5-G-800	VT-1	09/14/1995		PASS	Y				
CBI-34	RC	II-RV-001RVWSH-47	BWASH	C540-1		5-G-800	VT-1	09/14/1995		PASS	Y				
CBI-34	RC	II-RV-001RVWSH-48	BWASH	C540-1		5-G-800	VT-1	09/14/1995		PASS	Y				
CBI-34	RC	II-RV-001RVWSH-49A	BWASH	C540-1		5-G-800	VT-1	09/14/1995		PASS	Y				SURF, LINEAR REF ONLY, OK
CBI-34	RC	II-RV-001RVWSH-50	BWASH	C540-1		5-G-800	VT-1	09/14/1995		PASS	Y				

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Exam Requirement : 83S-01    Outage : 1-3-06  
 Interval : 1    Period : 3

Category : B-G-1    PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER  
 Item No. : B6. 50    RV CLOSURE WASHERS, BUSHINGS    (> 2")

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam		Cal Standard	Exam Result	Credit XI TS	Relief Request	Indication Type	Indication Resolution
				A	B		Type	Exam Date						
CBI-34	RC	II-RV-001RVWSH-50	BWASH	C540-1		5-G-800	VT-1	09/14/1995		PASS	Y			
CBI-34	RC	II-RV-001RVWSH-51	BWASH	C540-1		5-G-800	VT-1	09/14/1995		PASS	Y			
CBI-34	RC	II-RV-001RVWSH-52	BWASH	C540-1		5-G-800	VT-1	09/14/1995		PASS	Y			
CBI-34	RC	II-RV-001RVWSH-53	BWASH	C540-1		5-G-800	VT-1	09/14/1995		PASS	Y			
CBI-34	RC	II-RV-001RVWSH-54	BWASH	C540-1		5-G-800	VT-1	09/14/1995		PASS	Y			
CBI-34	RC	II-RV-001RVWSH-55	BWASH	C540-1		5-G-800	VT-1	09/14/1995		PASS	Y			
CBI-34	RC	II-RV-001RVWSH-56	BWASH	C540-1		5-G-800	VT-1	09/14/1995		PASS	Y			
CBI-34	RC	II-RV-001RVWSH-57	BWASH	C540-1		5-G-800	VT-1	09/14/1995		PASS	Y			
CBI-34	RC	II-RV-001RVWSH-58	BWASH	C540-1		5-G-800	VT-1	09/14/1995		PASS	Y			

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Page: 11  
 Date: 12/22/1995  
 Revision: 20

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : B-G-1      PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER  
 Item No. : B6.180      PUMP BOLTS AND STUDS      (> 2")

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam Type	Exam Date	Cal Standard	Exam Result	Credit XI TS	Relief Request	Indication Type	Indication Resolution
				A	B									
1364-2462	RC	II-RCP-01RCPA-FBOLT-01	BPHB			5-G-800	UT-OUT	09/18/1995	COMP	PASS	Y			
1364-2462	RC	II-RCP-01RCPA-FBOLT-02	BPHB			5-G-800	UT-OUT	09/18/1995	COMP	PASS	Y			
1364-2462	RC	II-RCP-01RCPA-FBOLT-03	BPHB			5-G-800	UT-OUT	09/18/1995	COMP	PASS	Y			
1364-2462	RC	II-RCP-01RCPA-FBOLT-04	BPHB			5-G-800	UT-OUT	09/18/1995	COMP	PASS	Y			
1364-2462	RC	II-RCP-01RCPA-FBOLT-05	BPHB			5-G-800	UT-OUT	09/18/1995	COMP	PASS	Y			
1364-2462	RC	II-RCP-01RCPA-FBOLT-06	BPHB			5-G-800	UT-OUT	09/18/1995	COMP	PASS	Y			
1364-2462	RC	II-RCP-01RCPA-FBOLT-07	BPHB			5-G-800	UT-OUT	09/18/1995	COMP	PASS	Y			
1364-2462	RC	II-RCP-01RCPA-FBOLT-08	BPHB			5-G-800	UT-OUT	09/18/1995	COMP	PASS	Y			
1364-2462	RC	II-RCP-01RCPA-FBOLT-09	BPHB			5-G-800	UT-OUT	09/18/1995	COMP	PASS	Y			
1364-2462	RC	II-RCP-01RCPA-FBOLT-10	BPHB			5-G-800	UT-OUT	09/18/1995	COMP	PASS	Y			
1364-2462	RC	II-RCP-01RCPA-FBOLT-11	BPHB			5-G-800	UT-OUT	09/18/1995	COMP	PASS	Y			
1364-2462	RC	II-RCP-01RCPA-FBOLT-12	BPHB			5-G-800	UT-OUT	09/18/1995	COMP	PASS	Y			

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : B-G-1      PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER  
 Item No. : B6.180      PUMP BOLTS AND STUDS      (> 2")

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam		Cal Standard	Exam Result	Credit		Relief Request	Indication Type	Indication Resolution
				A	B		Type	Exam Date			XI	TS			
1364-2462	RC	II-RCP-01RCPA-FBOLT-12	BPHB			5-G-800	UT-OUT	09/18/1995	COMP	PASS	Y				
1364-2462	RC	II-RCP-01RCPA-FBOLT-13	BPHB			5-G-800	UT-OUT	09/18/1995	COMP	PASS	Y				
1364-2462	RC	II-RCP-01RCPA-FBOLT-14	BPHB			5-G-800	UT-OUT	09/18/1995	COMP	PASS	Y				
1364-2462	RC	II-RCP-01RCPA-FBOLT-15	BPHB			5-G-800	UT-OUT	09/18/1995	COMP	PASS	Y				
1364-2462	RC	II-RCP-01RCPA-FBOLT-16	BPHB			5-G-800	UT-OUT	09/18/1995	COMP	PASS	Y				
1364-2462	RC	II-RCP-01RCPA-FBOLT-17	BPHB			5-G-800	UT-OUT	09/18/1995	COMP	PASS	Y				
1364-2462	RC	II-RCP-01RCPA-FBOLT-18	BPHB			5-G-800	UT-OUT	09/18/1995	COMP	PASS	Y				
1364-2462	RC	II-RCP-01RCPA-FBOLT-19	BPHB			5-G-800	UT-OUT	09/18/1995	COMP	PASS	Y				
1364-2462	RC	II-RCP-01RCPA-FBOLT-20	BPHB			5-G-800	UT-OUT	09/18/1995	COMP	PASS	Y				
1364-2462	RC	II-RCP-01RCPA-FBOLT-21	BPHB			5-G-800	UT-OUT	09/18/1995	COMP	PASS	Y				
1364-2462	RC	II-RCP-01RCPA-FBOLT-22	BPHB			5-C-800	UT-OUT	09/18/1995	COMP	PASS	Y				
1364-2462	RC	II-RCP-01RCPA-FBOLT-23	BPHB			5-G-800	UT-OUT	09/18/1995	COMP	PASS	Y				

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : B-G-1      PRESSURE RETAINING BOLTS GREATER THAN TWO INCHES IN DIAMETER  
 Item No. : B6.180      PUMP BOLTS AND STUDS      (> 2")

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam		Cal Standard	Exam Result	Credit		Relief Request	Indication Type	Indication Resolution
				A	B		Type	Exam Date			XI	TS			
1364-2462	RC	II-RCP-01RCPA-FBOLT-23	BPHB			5-G-800	UT-OUT	09/18/1995	COMP	PASS	Y				
1364-2462	RC	II-RCP-01RCPA-FBOLT-24	BPHB			5-G-800	UT-OUT	09/18/1995	COMP	PASS	Y				

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : B-G-2      PRESSURE RETAINING BOLTS, TWO INCHES AND LESS IN DIAMETER  
 Item No. : B7.30      STEAM GENERATOR BOLTS, STUDS, AND NUTS      (<= 2")

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam		Cal Standard	Exam Result	Credit		Relief Request	Indication Type	Indication Resolution
				A	B		Type	Exam Date			XI	TS			
83031401100980	RC	II-SG-001SGC-CLMS-01	BBOLT	C193-1		5-G-800	VT-1	09/20/1995		PASS	Y				
83031401100980	RC	II-SG-001SGC-CLMS-02	BBOLT	C193-1		5-G-800	VT-1	09/20/1995		PASS	Y				
83031401100980	RC	II-SG-001SGC-CLMS-03	BBOLT	C193-1		5-G-800	VT-1	09/20/1995		PASS	Y				
83031401100980	RC	II-SG-001SGC-CLMS-04	BBOLT	C193-1		5-G-800	VT-1	09/20/1995		PASS	Y		THREAD DMG	REF ONLY, OK	
83031401100980	RC	II-SG-001SGC-CLMS-05	BBOLT	C193-1		5-G-800	VT-1	09/20/1995		PASS	Y				
83031401100980	RC	II-SG-001SGC-CLMS-06	BBOLT	C193-1		5-G-800	VT-1	09/20/1995		PASS	Y				
83031401100980	RC	II-SG-001SGC-CLMS-07	BBOLT	C193-1		5-G-800	VT-1	09/20/1995		PASS	Y				
83031401100980	RC	II-SG-001SGC-CLMS-08	BBOLT	C193-1		5-G-800	VT-1	09/20/1995		PASS	Y				
83031401100980	RC	II-SG-001SGC-CLMS-09	BBOLT	C193-1		5-G-800	VT-1	09/20/1995		PASS	Y				
83031401100980	RC	II-SG-001SGC-CLMS-10	BBOLT	C193-1		5-G-800	VT-1	09/20/1995		PASS	Y				
83031401100980	RC	II-SG-001SGC-CLMS-11	BBOLT	C193-1		5-G-800	VT-1	09/20/1995		PASS	Y				
83031401100980	RC	II-SG-001SGC-CLMS-12	BBOLT	C193-1		5-G-800	VT-1	09/20/1995		PASS	Y				

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : B-G-2      PRESSURE RETAINING BOLTS, TWO INCHES AND LESS IN DIAMETER  
 Item No. : B7.30      STEAM GENERATOR BOLTS, STUDS, AND NUTS      (<= 2")

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam		Cal Standard	Exam Result	Credit		Relief Request	Indication	
				A	B		Type	Exam Date			XI	TS		Type	Resolution
83031401100980	RC	II-SG-001SGC-CLMS-12	BBOLT	C193-1		5-G-800	VT-1	09/20/1995		PASS	Y				
83031401100980	RC	II-SG-001SGC-CLMS-13	BBOLT	C193-1		5-G-800	VT-1	09/20/1995		PASS	Y				
83031401100980	RC	II-SG-001SGC-CLMS-14	BSOLT	C193-1		5-G-800	VT-1	09/20/1995		PASS	Y				
83031401100980	RC	II-SG-001SGC-CLMS-15	BBOLT	C193-1		5-G-800	VT-1	09/20/1995		PASS	Y				
83031401100980	RC	II-SG-001SGC-HLMS-01	BBOLT	C193-1		5-G-800	VT-1	09/20/1995		PASS	Y			THREAD DMG	REF ONLY, OK
83031401100980	RC	II-SG-001SGC-HLMS-02	BBOLT	C193-1		5-G-800	VT-1	09/20/1995		PASS	Y				
83031401100980	RC	II-SG-001SGC-HLMS-03	BBOLT	C193-1		5-G-800	VT-1	09/20/1995		PASS	Y				
83031401100980	RC	II-SG-001SGC-HLMS-04	BBOLT	C193-1		5-G-800	VT-1	09/20/1995		PASS	Y				
83031401100980	RC	II-SG-001SGC-HLMS-05	BBOLT	C193-1		5-G-800	VT-1	09/20/1995		PASS	Y				
83031401100980	RC	II-SG-001SGC-HLMS-06	BBOLT	C193-1		5-G-800	VT-1	09/20/1995		PASS	Y				
83031401100980	RC	II-SG-001SGC-HLMS-07	BBOLT	C193-1		5-G-800	VT-1	09/20/1995		PASS	Y				
83031401100980	RC	II-SG-001SGC-HLMS-08	BBOLT	C193-1		5-G-800	VT-1	09/20/1995		PASS	Y				

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : B-G-2      PRESSURE RETAINING BOLTS, TWO INCHES AND LESS IN DIAMETER  
 Item No. : B7.30      STEAM GENERATOR BOLTS, STUDS, AND NUTS      (≤ 2")

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam Type	Exam Date	Cal Standard	Exam Result	Credit		Relief Request	Indication Type	Indication Resolution
				A	B						XI	TS			
83031401100980	RC	II-SG-001SGC-HLMS-08	BBOLT	C193-1		5-G-800	VT-1	09/20/1995		PASS	Y				
83031401100980	RC	II-SG-001SGC-HLMS-09	BBOLT	C193-1		5-G-800	VT-1	09/20/1995		PASS	Y				
83031401100980	RC	II-SG-001SGC-HLMS-10	BBOLT	C193-1		5-G-800	VT-1	09/20/1995		PASS	Y				
83031401100980	RC	II-SG-001SGC-HLMS-11	BBOLT	C193-1		5-G-800	VT-1	09/20/1995		PASS	Y				
83031401100980	RC	II-SG-001SGC-HLMS-12	BBOLT	C193-1		5-G-800	VT-1	09/20/1995		PASS	Y				
83031401100980	RC	II-SG-001SGC-HLMS-13	BBOLT	C193-1		5-G-800	VT-1	09/20/1995		PASS	Y				
83031401100980	RC	II-SG-001SGC-HLMS-14	BBOLT	C193-1		5-G-800	VT-1	09/20/1995		PASS	Y				
83031401100980	RC	II-SG-001SGC-HLMS-15	BBOLT	C193-1		5-G-800	VT-1	09/20/1995		PASS	Y				
83031401100980	RC	II-SG-001SGC-HLMS-16	BBOLT	C193-1		5-G-800	VT-1	09/20/1995		PASS	Y				
83031900200988	RC	II-SG-001SGC-CLMN(16)	BNUT	C194-1		5-G-800	VT-1	09/20/1995		PASS	Y				
83031900200988	RC	II-SG-001SGC-HLMN(16)	BNUT	C194-1		5-G-800	VT-1	09/20/1995		PASS	Y		THREAD DMG	REF ONLY, OK	



Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period :

Category : B-G-2      PRESSURE RETAINING BOLTS, TWO INCHES AND LESS IN DIAMETER  
 Item No. : B7.50      PIPING BOLTS, STUDS, AND NUTS      (<= 2")

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam Type	Exam Date	Cal Standard	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
				A	B									
EMDRAC 2121	RC	II-RC-027RC-114-F-01(12)	BFSC	H453-2	H193-2	5-G-801	VT-1	09/12/1995		PASS	Y			
EMDRAC 2121	RC	II-RC-027RC-115-F-01(12)	BFSC	H453-2	H193-2	5-G-801	VT-1	09/12/1995		PASS	Y			
WEST RCP TM	CS	II-CS-103CS-492-F-01 (4)	BFSC			5-G-803	VT-1	09/27/1995		PASS	Y			

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : B-G-2      PRESSURE RETAINING BOLTS, TWO INCHES AND LESS IN DIAMETER  
 Item No. : B7.60      PUMP BOLTS, STUDS, AND NUTS      (<= 2")

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam Type	Exam Date	Cal Standard	Exam Result	Credit XI TS	Relief Request	Indication Type	Indication Resolution
				A	B									
1364-2462	RC	II-RCP-01RCPB-CSBOLT-1	BPSB			5-G-800	VT-1	09/13/1995		PASS	Y			
1364-2462	RC	II-RCP-01RCPB-CSBOLT-2	BPSB			5-G-800	VT-1	09/13/1995		PASS	Y			
1364-2462	RC	II-RCP-01RCPB-CSBOLT-3	BPSB			5-G-800	VT-1	09/13/1995		PASS	Y			
1364-2462	RC	II-RCP-01RCPB-CSBOLT-4	BPSB			5-G-800	VT-1	09/13/1995		PASS	Y			
1364-2462	RC	II-RCP-01RCPB-CSBOLT-5	BPSB			5-G-800	VT-1	09/13/1995		PASS	Y			
1364-2462	RC	II-RCP-01RCPB-CSBOLT-6	BPSB			5-G-800	VT-1	09/13/1995		PASS	Y			
1364-2462	RC	II-RCP-01RCPB-CSBOLT-7	BPSB			5-G-800	VT-1	09/13/1995		PASS	Y			
1364-2462	RC	II-RCP-01RCPB-CSBOLT-8	BPSB			5-G-800	VT-1	09/13/1995		PASS	Y			
1364-2462	RC	II-RCP-01RCPC-CSBOLT-1	BPSB			5-G-800	VT-1	09/18/1995		PASS	Y			
1364-2462	RC	II-RCP-01RCPC-CSBOLT-2	BPSB			5-G-800	VT-1	09/18/1995		PASS	Y			
1364-2462	RC	II-RCP-01RCPC-CSBOLT-3	BPSB			5-G-800	VT-1	09/18/1995		PASS	Y			
1364-2462	RC	II-RCP-01RCPC-CSBOLT-4	BPSB			5-G-800	VT-1	09/18/1995		PASS	Y			

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Page: 19  
 Date: 12/22/1995  
 Revision: 20

Exam Requirement : 83S-01 Outage : 1-3-06  
 Interval : 1 Period : 3

Category : B-G-2 PRESSURE RETAINING BOLTS, TWO INCHES AND LESS IN DIAMETER  
 Item No. : B7.60 PUMP BOLTS, STUDS, AND NUTS  
 (\* 2\*)

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam Type	Exam Date	Cal Standard	Exam Result	Credit XI	Relief TS	Indication Type	Indication Resolution
				A	B									
1364-2462	RC	II-RCP-01RCPC-CSBOLT-4	BPSB			5-G-800	VT-1	09/18/1995		PASS	Y			
1364-2462	RC	II-RCP-01RCPC-CSBOLT-5	BPSB			5-G-800	VT-1	09/18/1995		PASS	Y			
1364-2462	RC	II-RCP-01RCPC-CSBOLT-6	BPSB			5-G-800	VT-1	09/18/1995		PASS	Y			
1364-2462	RC	II-RCP-01RCPC-CSBOLT-7	BPSB			5-G-800	VT-1	09/18/1995		PASS	Y			
1364-2462	RC	II-RCP-01RCPC-CSBOLT-8	BPSB			5-G-800	VT-1	09/18/1995		PASS	Y			
1364-2462	RC	II-RCP-01RCPC-SBOLT(12)	BPSB			5-G-800	VT-1	09/17/1995		PASS	Y			

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Page: 20  
 Date: 12/22/1995  
 Revision: 20

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : B-G-2      PRESSURE RETAINING BOLTS, TWO INCHES AND LESS IN DIAMETER  
 Item No. : B7.70      VALVE BOLTS, STUDS, AND NUTS      (<= 2")

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam Type	Exam Date	Cal Standard	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
				A	B									
EMDRAC 2121	RC	II-RC-027RC-123 VBB(8)	BVBB	H453-2	H193-2	5-G-801	VT-1	09/12/1995		PASS	Y			
EMDRAC 2121	RC	II-RC-027RC-125 VBB(8)	BVBB	H453-2	H193-2	5-G-801	VT-1	09/12/1995		PASS	Y			
EMDRAC 2917	RC	II-RC-022RC-114 VBB(6)	BVBB	H453-1	H193-1	5-G-801	VT-1	09/12/1995		PASS	Y			
EMDRAC 2917	RC	II-RC-022RC-116 VBB(6)	BVBB	H453-1	H193-1	5-G-801	VT-1	09/12/1995		PASS	Y			
EMDRAC 2917	RC	II-RC-022RC-118 VBB(6)	BVBB	H453-1	H193-1	5-G-801	VT-1	09/12/1995		PASS	Y			
EMDRAC 4470	SI	II-SI-017SI-138 VBB(16)	BVBB	H453-1	H194-1	5-G-808	VT-1	09/12/1995		PASS	Y			
EMDRAC 4470	SI	II-SI-026SI-358 VBB(16)	BVBB	H453-1	H194-1	5-G-808	VT-1	09/22/1995		PASS	Y			
EMDRAC 4470	SI	II-SI-026SI-83 VBB(16)	BVBB	H453-1	H194-1	5-G-808	VT-1	09/25/1995		PASS	Y			
EMDRAC 4470	SI	II-SI-027SI-135 VBB(16)	BVBB	H453-1	H194-1	5-G-808	VT-1	09/22/1995		PASS	Y			
EMDRAC 4470	SI	II-SI-027SI-137 VBB(16)	BVBB	H453-1	H194-1	5-G-808	VT-1	09/25/1995		PASS	Y			
EMDRAC 4473	CS	II-CS-102CS-497 VBB(12)	BVBB	H453-1	H194-1	5-G-803	VT-1	09/25/1995		PASS	Y			
EMDRAC 4473	CS	II-CS-102CS-500 VBB(12)	BVBB	H453-1	H194-1	5-G-803	VT-1	10/02/1995		PASS	Y			

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Page: 21  
 Date: 12/22/1995  
 Revision: 20

Exam Requirement : 83S-01 Outage : 1-3-06  
 Interval : 1 Perod : 3

Category : B-G-2 PRESSURE RETAINING BOLTS, TWO INCHES AND LESS IN DIAMETER  
 Item No. : B7.70 VALVE BOLTS, STUDS, AND NUTS  
 (c= 2")

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam Type	Exam Date	Cal Standard	Exam Result	Credit XI	Relief TS	Indication Type	Indication Resolution
				A	B									
EMDRAC 4473	CS	II-CS-102CS-500 VBB(12)	BVBB	H453-1	H194-1	5-G-803	VT-1	10/02/1995		PASS	Y			
EMDRAC 4479	SI	II-SI-021SI-249 VBB(18)	BVBB	H453-1	H453-1	5-G-809	VT-1	09/25/1995		PASS	Y			
EMDRAC 4479	SI	II-SI-021SI-250 VBB(18)	BVBB	H453-1	H453-1	5-G-609	VT-1	09/25/1995		PASS	Y			
EMDRAC 51078	RC	II-RC-022RC-113 VBB(14)	BVBB	H453-1	H194-1	5-G-801	VT-1	09/28/1995		PASS	Y			
EMDRAC 51078	RC	II-RC-022RC-115 VBB(14)	BVBB	H453-1	H194-1	5-G-801	VT-1	09/20/1995		PASS	Y			
EMDRAC 51078	RC	II-RC-022RC-117 VBB(14)	BVBB	H453-1	H194-1	5-G-801	VT-1	09/20/1995		PASS	Y			



Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Page: 23  
 Date: 12/22/1995  
 Revision: 20

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : B-J      PRESSURE RETAINING WELDS IN PIPING  
 Item No. : B9.11      CIRCUMFERENTIAL WELDS IN PIPING, NOMINAL PIPE SIZE >= 4 IN.

ISI Drawing	System	Component Number	Component		Material		Boundary Drawing	Exam		Cal Standard	Exam Result	Credit		Relief Request	Indication	
			Description		A	B		Type	Exam Date			XI	TS		Type	Resolution
II-RC-023	RC	II-RC-023RC-SW-B5	PBCC,T	PC,PIPE	H403-1	H376-1	5-G-801	UT-45S	09/24/1995	UT0201	PASS	Y		R1-003		
								PT	09/25/1995		PASS	Y				
II-RC-027	RC	II-RC-027RC-SW-A10	PE,LR	PC,PIPE	H403-1	H376-1	5-G-801	UT-45S	09/24/1995	UT0201	PASS	Y				
								PT	09/23/1995		PASS	Y				
II-RC-027	RC	II-RC-027RC-SW-A11	PC,PIPE	PF,WN	H376-1	H182-3	5-G-801	UT-45S	09/24/1995	UT0201	PASS	Y		R1-003		
								PT	09/23/1995		PASS	Y				
II-RC-027	RC	II-RC-027RC-SW-A3	PC,PB	PE,LR	H376-1	H403-1	5-G-801	PT	09/23/1995		PASS	Y				
								UT-45S	09/24/1995	UT0201	PASS	Y				
II-SI-017	RC	II-SI-017RC-FW-297	PC,PIPE	PBC,S	H376-1	H376-1	5-G-800	UT-45S	09/26/1995	UT0201	PASS	Y		R1-003		
								PT	09/26/1995		PASS	Y				
II-SI-021	RC	II-SI-021RC-FW-300	PC,PIPE	PC,NOZ	H376-3	H-	5-G-800	UT-53S	09/27/1995	UT0261	PASS	Y		R1-003		
								PT	09/26/1995		PASS	Y				
II-SI-021	RC	II-SI-021RC-SW-E3	PE,LR	PC,PIPE	H403-3	H376-3	5-G-900	UT-53S	09/27/1995	UT0261	PASS	Y				
								PT	09/26/1995		PASS	Y				
II-SI-023	RC	II-SI-023RC-FW-299	PC,PIPE	PC,NOZ	H376-3	H351-1	5-G-800	PT	09/26/1995		PASS	Y				

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : B-J      PRESSURE RETAINING WELDS IN PIPING  
 Item No. : B9.11      CIRCUMFERENTIAL WELDS IN PIPING, NOMINAL PIPE SIZE >= 4 IN.

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam		Cal Standard	Exam Result	Credit		Relief Request	Indication Type	Indication Resolution
				A	B		Type	Exam Date			XI	TS			
II-SI-023	RC	II-SI-023RC-FW-299	PC, PIPE PC, NOZ	H376-3	H351-1	5-G-800	UT-53S	09/26/1995	UT0261	PASS	Y		R1-003		
II-SI-023	RC	II-SI-023RC-SW-E4	PE, LR PC, PIPE	H403-3	H376-3	5-G-800	PT	09/26/1995		PASS	Y				
							UT-53S	09/26/1995	UT0261	PASS	Y				
II-SI-023	RC	II-SI-023RC-SW-E5	PC, PIPE PE, LR	H376-3	H403-3	5-G-800	PT	09/26/1995		PASS	Y				
							UT-53S	09/26/1995	UT0261	PASS	Y				
II-SI-023	RC	II-SI-023RC-SW-E6	PE, LR PC, PIPE	H403-3	H376-3	5-G-800	PT	09/26/1995		PASS	Y				
							UT-53S	09/26/1995	UT0261	PASS	Y				
II-SI-027	RC	II-SI-027RC-FW-298	PC, PIPE PC, NOZ	H376-1	H182-1	5-G-800	PT	09/27/1995		PASS	Y				
							UT-45S	09/27, 1995	UT0201	PASS	Y		R1-003		



Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Page: 25  
 Date: 12/22/1995  
 Revision: 20

Exam Requirement : 03S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : B-J      PRESSURE RETAINING WELDS IN PIPING  
 Item No. : B9.21      CIRCUMFERENTIAL WELDS IN PIPING, NOMINAL PIPE SIZE < 4 IN.

ISI Drawing	System	Component Number	Component		Material		Boundary Drawing	Exam Type	Exam Date	Cal Standard	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
			Description		A	B									
II-CS-103	CS	II-CS-103CS-SW-A5	PBCC,T	PC,PB	H403-1	H376-1	5-G-803	PT	09/27/1995		PASS	Y			
II-CS-102	RC	II-CS-102RC-FW-443	PC,PIPE	PC,NOZ	H376-1	H182-1	5-G-800	PT	09/26/1995		PASS	Y			
II-CS-102	RC	II-CS-102RC-SW-A3	PE,LR	PC,PIPE	H403-1	H376-1	5-G-800	PT	09/26/1995		PASS	Y			
II-RC-022	RC	II-RC-022RC-149-3-SW-8	PC,PIPE	PE,LR	H376-1	H403-1	5-G-801	PT	09/23/1995		PASS	Y			
II-RC-022	RC	II-RC-022RC-FW-467	PC,PIPE	PC,VLV	H376-1	H182-1	5-G-801	PT	09/23/1995		PASS	Y			
II-RC-022	RC	II-RC-022RC-FW-468	PC,VLV	PC,PIPE	H182-1	H376-1	5-G-801	PT	09/23/1995		PASS	Y			
II-RC-022	RC	II-RC-022RC-SW-C19	PE,LR	PC,PIPE	H403-1	H376-1	5-G-801	PT	09/23/1995		PASS	Y			

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Page: 26  
 Date: 12/22/1995  
 Revision: 20

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : B-J      PRESSURE RETAINING WELDS IN PIPING  
 Item No. : B9.31      BRANCH PIPE CONNECTION WELDS, NOMINAL PIPE SIZE >= 4 IN.

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam		Cal Standard	Exam Result	Credit		Relief Request	Indication Type	Indication Resolution
				A	B		Type	Exam Date			XI	TS			
II-FMR-03	RC	II-FMR-03RC-10-19-SW-N2	PC, PIPE PC, NOZ	H376-1	H182-1	5-G-800	UT-45L	09/19/1995	UT0081	PASS	Y		R1-003		
							PT	09/19/1995		PASS	Y				
II-FMR-03	RC	II-FMR-03RC-10-19-SW-N3	PC, PIPE PC, NOZ	H376-1	H182-1	5-G-800	PT	09/19/1995		PASS	Y				
							UT-45L	09/19/1995	UT0081	PASS	Y		R1-003		

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : B-J      PRESSURE RETAINING WELDS IN PIPING  
 Item No. : B9.32      BRANCH PIPE CONNECTION WELDS, NOMINAL PIPE SIZE < 4 IN.

ISI Drawing	System	Component Number	Component		Material		Boundary Drawing	Exam Type	Exam Date	Cal Standard	Exam Result	Credit		Relief Request	Indication	
			Description		A	B						XI	TS		Type	Resolution
II-FMR-03	RC	II-FMR-03RC-10-19-SW-N4	PSW,P	PSW,CPL	H376-1	H376-1	5-G-800	PT	09/18/1995		PASS	Y				
II-FMR-03	RC	II-FMR-03RC-10-19-SW-N5	PSW,P	PSW,CPL	H376-1	H376-1	5-G-800	PT	09/18/1995		PASS	Y				
II-FMR-03	RC	II-FMR-03RC-10-19-SW-N6	PSW,P	PSW,CPL	H376-1	H376-1	5-G-800	PT	09/18/1995		PASS	Y				
II-FMR-03	RC	II-FMR-03RC-10-19-SW-N7	PC,PIPE	PBC,TE	H376-1	H182-1	5-G-800	PT	09/18/1995		PASS	Y				
II-FMR-03	RC	II-FMR-03RC-10-19-SW-P7	PC,PIPE	PC,NOZ	H376-1	H182-1	5-G-800	PT	09/18/1995		PASS	Y				
II-FMR-03	RC	II-FMR-03RC-10-19-SW-P8	PC,PIPE	PC,NOZ	H376-1	H182-3	5-G-800	PT	09/18/1995		PASS	Y				

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : B-J      PRESSURE RETAINING WELDS IN PIPING  
 Item No. : B9.40      PIPE SOCKET WELDS

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam Type	Exam Date	Cal Standard	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
				A	B									
II-SI-017	SI	II-SI-017SI-FW-905	PSW,CPL PSW,RED	H182-1	H403-1	5-G-808	PT	09/20/1995		PASS	Y			
II-SI-017	SI	II-SI-017SI-SW-C5	PC,PIPE PSW,CPL	H376-1	H182-1	5-G-808	PT	09/20/1995		PASS	Y			
II-SI-017	SI	II-SI-017SI-SW-C7	PC,PIPE PSW,E	H376-1	H182-1	5-G-808	PT	09/20/1995		PASS	Y			
II-SI-017	SI	II-SI-017SI-SW-C8	PSW,E PC,PIPE	H182-1	H376-1	5-G-808	PT	09/20/1995		PASS	Y			
II-SI-020	SI	II-SI-020SI-SW-A3	PSW,E PC,PIPE	H182-1	H376-1	5-G-808	PT	09/20/1995		PASS	Y			
II-SI-020	SI	II-SI-020SI-SW-A4	PC,PIPE PSW,E	H376-1	H182-1	5-G-808	PT	09/20/1995		PASS	Y			

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : B-M-2      VALVE BODIES  
 Item No. : B12.50      VALVE BODY, EXCEEDING 4 IN. NOMINAL PIPE SIZE

<u>ISI Drawing</u>	<u>System</u>	<u>Component Number</u>	<u>Component Description</u>	<u>Material</u>		<u>Boundary Drawing</u>	<u>Exam Type</u>	<u>Exam Date</u>	<u>Cal Standard</u>	<u>Exam Result</u>	<u>Credit</u>	<u>Relief Request</u>	<u>Indication Type</u>	<u>Indication Resolution</u>
				A	B						XI 7;			
EMDRAC 4470	SI	II-SI-0271SI-137 INT	AVALINT			5-G-808	VT-3	10/01/1995		PASS	Y	R1-05A		

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Page: 30  
 Date: 12/22/1995  
 Revision: 20

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : B-P      ALL PRESSURE RETAINING COMPONENTS  
 Item No. : B15.10      RV PRESSURE RETAINING BOUNDARY - OPERATIONAL

<u>ISI Drawing</u>	<u>System</u>	<u>Component Number</u>	<u>Component Description</u>	<u>Material</u>		<u>Boundary Drawing</u>	<u>Exam</u>		<u>Cal Standard</u>	<u>Exam Result</u>	<u>Credit Relief</u>		<u>Indication Type</u>	<u>Indication Resolution</u>
				<u>A</u>	<u>B</u>		<u>Type</u>	<u>Exam Date</u>			<u>XI</u>	<u>TS</u>		
II-RV-001	RC	II-RV-001	REACTOR VESSEL	VRV		5-G-800		VT-20T	10/08/1995	PASS	Y			

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Page: 31  
 Date: 12/22/1995  
 Revision: 20

Exam Requirement : 83S-01 Outage : 1-3-06  
 Interval : 1 Period : 3

Category : B-P ALL PRESSURE RETAINING COMPONENTS  
 Item No. : B15.20 PRZ PRESSURE RETAINING BOUNDARY - OPERATIONAL

ISI Drawing	System	Component Number	Component Description	Material A	Material B	Boundary Drawing	Exam Type	Exam Date	Cal Standard	Exam Result	Credit XI	Relief TS	Indication Type	Indication Resolution
1364-2409	RC	II-PZR-01PRESSURIZER	VPZR	C533-6	C533-6	5-G-801	VT-20T	10/08/1995		PASS			Y	

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : B-P      ALL PRESSURE RETAINING COMPONENTS  
 Item No. : B15.30      SG PRESSURE RETAINING BOUNDARY - OPERATIONAL

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam		Cal Standard	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
				A	B		Type	Exam Date						
TMAN1440C264F1-2	RC	II-SG-001	STEAM GEN A	VSGA	C508-1 C533-1	5-G-800	VT-20T	10/08/1995		PASS	Y			
TMAN1440C264F1-2	RC	II-SG-001	STEAM GEN B	VSGB	C508-1 C533-1	5-G-800	VT-20T	10/08/1995		PASS	Y			
TMAN1440C264F1-2	RC	II-SG-001	STEAM GEN C	VSGC	C508-1 C533-1	5-G-800	VT-20T	10/08/1995		PASS	Y			



Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : B-P      ALL PRESSURE RETAINING COMPONENTS  
 Item No. : B15.50      PIPING PRESSURE RETAINING BOUNDARY - OPERATIONAL

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam		Cal Standard	Exam Result	Credit		Relief Request	Indication Type	Indication Resolution
				A	B		Type	Exam Date			XI	TS			
II-CS-088		II-CS-088	PRESSURE TEST	PRESSUR	TEST										
II-CS-093		II-CS-093	PRESSURE TEST	PRESSUR	TEST		VT-20P	10/08/1995		PASS	Y				
II-CS-094		II-CS-094	PRESSURE TEST	PRESSUR	TEST		VT-20P	10/08/1995		PASS	Y				
II-CS-097		II-CS-097	PRESSURE TEST	PRESSUR	TEST		VT-30P	10/08/1995		PASS	Y				
II-CS-103		II-CS-103	PRESSURE TEST	PRESSUR	TEST		VT-20P	10/08/1995		PASS	Y				
II-CS-106		II-CS-106	PRESSURE TEST	PRESSUR	TEST		VT-20P	10/08/1995		PASS	Y				
II-CS-107		II-CS-107	PRESSURE TEST	PRESSUR	TEST		VT-20P	10/08/1995		PASS	Y				
II-FMR-01		II-FMR-01	PRESSURE TEST	PRESSUR	TEST		VT-20P	10/08/1995		PASS	Y				
II-FMR-02		II-FMR-02	PRESSURE TEST	PRESSUR	TEST		VT-20P	10/08/1995		PASS	Y				
II-FMR-03		II-FMR-03	PRESSURE TEST	PRESSUR	TEST		VT-20P	10/08/1995		PASS	Y				
II-RC-009		II-RC-009	PRESSURE TEST	PRESSUR	TEST		VT-20P	10/08/1995		PASS	Y				
II-RC-010		II-RC-010	PRESSURE TEST	PRESSUR	TEST		VT-20P	10/08/1995		PASS	Y				



Carolina Power & Light Company  
Harris Nuclear Power Plant  
Post Outage Examination Results Report  
Heading Line 1  
Heading Line 2  
Welds

Page: 35  
Date: 12/22/1995  
Revision: 20

Exam Requirement : 83S-01      Outage : 1-3-06  
Interval : 1      Period : 3

Category : B-P      ALL PRESSURE RETAINING COMPONENTS  
Item No. : B15.50      PIPING PRESSURE RETAINING BOUNDARY - OPERATIONAL

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam		Cal Standard	Exam Result	Credit		Relief Request	Indication	
				A	B		Type	Exam Date			XI	TS		Type	Resolution
II-SI-017		II-SI-017	PRESSURE TEST	PRESSUR	TEST										
							VT-20P	10/08/1995		PASS	Y				
II-SI-018		II-SI-018	PRESSURE TEST	PRESSUR	TEST										
							VT-20P	10/08/1995		PASS	Y				
II-SI-019		II-SI-019	PRESSURE TEST	PRESSUR	TEST										
							VT-20P	10/08/1995		PASS	Y				
II-SI-020		II-SI-020	PRESSURE TEST	PRESSUR	TEST										
							VT-20P	10/08/1995		PASS	Y				
II-SI-021		II-SI-021	PRESSURE TEST	PRESSUR	TEST										
							VT-20P	10/08/1995		PASS	Y				
II-SI-022		II-SI-022	PRESSURE TEST	PRESSUR	TEST										
							VT-20P	10/08/1995		PASS	Y				
II-SI-023		II-SI-023	PRESSURE TEST	PRESSUR	TEST										
							VT-20P	10/08/1995		PASS	Y				
II-SI-024		II-SI-024	PRESSURE TEST	PRESSUR	TEST										
							VT-20P	10/08/1995		PASS	Y				
II-SI-025		II-SI-025	PRESSURE TEST	PRESSUR	TEST										
							VT-20P	10/08/1995		PASS	Y				
II-SI-026		II-SI-026	PRESSURE TEST	PRESSUR	TEST										
							VT-20P	10/08/1995		PASS	Y				
II-SI-027		II-SI-027	PRESSURE TEST	PRESSUR	TEST										
							VT-20P	10/08/1995		PASS	Y				
II-SI-028		II-SI-028	PRESSURE TEST	PRESSUR	TEST										
							VT-20P	10/08/1995		PASS	Y				

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Page: 36  
 Date: 12/22/1995  
 Revision: 20

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : B-P      ALL PRESSURE RETAINING COMPONENTS  
 Item No. : B15.50      PIPING PRESSURE RETAINING BOUNDARY - OPERATIONAL

<u>ISI Drawing</u>	<u>System</u>	<u>Component Number</u>	<u>Component Description</u>	<u>Material</u>		<u>Boundary Drawing</u>	<u>Exam</u>		<u>Cal Standard</u>	<u>Exam Result</u>	<u>Credit</u>		<u>Relief Request</u>	<u>Indication</u>		
				<u>A</u>	<u>B</u>		<u>Type</u>	<u>Exam Date</u>			<u>XI</u>	<u>TS</u>		<u>Type</u>	<u>Resolution</u>	
II-SI-028		II-SI-028	PRESSURE TEST	PRESSUR	TEST											
							VT-20P	10/08/1995		PASS	Y					
II-SI-029		II-SI-029	PRESSURE TEST	PRESSUR	TEST											
							VT-20P	10/08/1995		PASS	Y					
II-SI-030		II-SI-030	PRESSURE TEST	PRESSUR	TEST											
							VT-20P	10/08/1995		PASS	Y					
II-SI-032		II-SI-032	PRESSURE TEST	PRESSUR	TEST											
							VT-20P	10/08/1995		PASS	Y					
II-CS-102	CS	II-CS-102	PRESSURE TEST	PRESSUR	TEST											
							VT-20P	10/08/1995		PASS	Y					
II-RC-008	RC	II-RC-008	PRESSURE TEST	PRESSUR	TEST											
							VT-2CP	10/08/1995		PASS	Y					

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : B-P      ALL PRESSURE RETAINING COMPONENTS  
 Item No. : B15.60      PUMP PRESSURE RETAINING BOUNDARY - OPERATIONAL

<u>ISI Drawing</u>	<u>System</u>	<u>Component Number</u>	<u>Component Description</u>	<u>Material</u>		<u>Boundary Drawing</u>	<u>Exam</u>		<u>Cal Standard</u>	<u>Exam Result</u>	<u>Credit</u>		<u>Relief Request</u>	<u>Indication Type</u>	<u>Indication Resolution</u>
				<u>A</u>	<u>B</u>		<u>Type</u>	<u>Exam Date</u>			<u>XI</u>	<u>TS</u>			
1364-1729	RC	II-RCP-01RC PUMP A	TRCP1A			5-G-800									
							VT-20T	10/08/1995		PASS	Y				
1364-1729	RC	II-RCP-01RC PUMP B	TRCP1B			5-G-800									
							VT-20T	10/08/1995		PASS	Y				
1364-1729	RC	II-RCP-01RC PUMP C	TRCP1C			5-G-800									
							VT-20T	10/08/1995		PASS	Y				

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Page: 38  
 Date: 12/22/1995  
 Revision: 20

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : B-P      ALL PRESSURE RETAINING COMPONENTS  
 Item No. : B15.70      VALVE PRESSURE RETAINING BOUNDARY - OPERATIONAL

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam		Cal Standard	Exam Result	Credit		Relief Request	Indication	
				A	B		Type	Exam Date			XI	TS		Type	Resolution
II-CS-088		II-CS-088	PRESSURE TEST	PRESSUR	TEST		VT-20V	10/08/1995		PASS	Y				
II-CS-093		II-CS-093	PRESSURE TEST	PRESSUR	TEST		VT-20V	10/08/1995		PASS	Y				
II-CS-094		II-CS-094	PRESSURE TEST	PRESSUR	TEST		VT-20V	10/08/1995		PASS	Y				
II-CS-097		II-CS-097	PRESSURE TEST	PRESSUR	TEST		VT-20V	10/08/1995		PASS	Y				
II-CS-103		II-CS-103	PRESSURE TEST	PRESSUR	TEST		VT-20V	10/08/1995		PASS	Y				
II-CS-106		II-CS-106	PRESSURE TEST	PRESSUR	TEST		VT-20V	10/08/1995		PASS	Y				
II-CS-107		II-CS-107	PRESSURE TEST	PRESSUR	TEST		VT-20V	10/08/1995		PASS	Y				
II-FMR-01		II-FMR-01	PRESSURE TEST	PRESSUR	TEST		VT-20V	10/08/1995		PASS	Y				
II-FMR-02		II-FMR-02	PRESSURE TEST	PRESSUR	TEST		VT-20V	10/08/1995		PASS	Y				
II-FMR-03		II-FMR-03	PRESSURE TEST	PRESSUR	TEST		VT-20V	10/08/1995		PASS	Y				
II-RC-009		II-RC-009	PRESSURE TEST	PRESSUR	TEST		VT-20V	10/08/1995		PASS	Y				
II-RC-010		II-RC-010	PRESSURE TEST	PRESSUR	TEST		VT-20V	10/08/1995		PASS	Y				

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : B-P      ALL PRESSURE RETAINING COMPONENTS  
 Item No. : B15.70      VALVE PRESSURE RETAINING BOUNDARY - OPERATIONAL

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam		Cal Standard	Exam Result	Credit		Relief Request	Indication Type	Indication Resolution
				A	B		Type	Exam Date			XI	TS			
II-RC-010		II-RC-010	PRESSURE TEST	PRESSUR	TEST										
							VT-20V	10/08/1995		PASS	Y				
II-RC-011		II-RC-011	PRESSURE TEST	PRESSUR	TEST										
							VT-20V	10/08/1995		PASS	Y				
II-RC-017		II-RC-017	PRESSURE TEST	PRESSUR	TEST										
							VT-20V	10/08/1995		PASS	Y				
II-RC-022		II-RC-022	PRESSURE TEST	PRESSUR	TEST										
							VT-20V	10/08/1995		PASS	Y				
II-RC-023		II-RC-023	PRESSURE TEST	PRESSUR	TEST										
							VT-20V	10/08/1995		PASS	Y				
II-RC-024		II-RC-024	PRESSURE TEST	PRESSUR	TEST										
							VT-20V	10/08/1995		PASS	Y				
II-RC-025		II-RC-025	PRESSURE TEST	PRESSUR	TEST										
							VT-20V	10/08/1995		PASS	Y				
II-RC-027		II-RC-027	PRESSURE TEST	PRESSUR	TEST										
							VT-20V	10/08/1995		PASS	Y				
II-RH-009		II-RH-009	PRESSURE TEST	PRESSUR	TEST										
							VT-20V	10/08/1995		PASS	Y				
II-RH-010		II-RH-010	PRESSURE TEST	PRESSUR	TEST										
							VT-20V	10/08/1995		PASS	Y				
II-SI-016		II-SI-016	PRESSURE TEST	PRESSUR	TEST										
							VT-20V	10/08/1995		PASS	Y				
II-SI-017		II-SI-017	PRESSURE TEST	PRESSUR	TEST										
							VT-20V	10/08/1995		PASS	Y				





Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : B-P      ALL PRESSURE RETAINING COMPONENTS  
 Item No. : B15.70      VALVE PRESSURE RETAINING BOUNDARY - OPERATIONAL

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam Type	Exam Date	Cal Standard	Exam Result	Credit		Relief Request	Indication Type	Indication Resolution
				A	B						XI	TS			
II-SI-028		II-SI-028	PRESSURE TEST	PRESSUR	TEST		VT-20V	10/08/1995		PASS	Y				
II-SI-029		II-SI-029	PRESSURE TEST	PRESSUR	TEST		VT-20V	10/08/1995		PASS	Y				
II-SI-030		II-SI-030	PRESSURE TEST	PRESSUR	TEST		VT-20V	10/08/1995		PASS	Y				
II-SI-032		II-SI-032	PRESSURE TEST	PRESSUR	TEST		VT-20V	10/08/1995		PASS	Y				
II-CS-102	CS	II-CS-102	PRESSURE TEST	PRESSUR	TEST		VT-20V	10/08/1995		PASS	Y				
II-RC-008	RC	II-RC-008	PRESSURE TEST	PRESSUR	TEST		VT-20V	10/08/1995		PASS	Y				

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : C-A      PRESSURE RETAINING WELDS IN PRESSURE VESSELS  
 Item No. : C1.10      PRESSURE VESSEL SHELL CIRCUMFERENTIAL WELDS

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam Type	Exam Date	Cal Standard	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
				A	B									
TMAN1440C264F1-2	RC	II-SG-001SGC-CSW-10	VCSW	C533-6	C533-6	5-G-800	UT-00	09/22/1995	UT0521	PASS	Y		R2-005	
							UT-60S	09/22/1995	UT0521	PASS	Y		R2-005	
							UT-45S	09/22/1995	UT0521	PASS	Y		R2-005	
W ATLAS-D-3393	CS	II-EL-001CSW-02C	VCSW	H240-1	C106-1	5-G-803	UT-45S	09/26/1995	UT0571	PASS	Y			
							UT-45S	09/01/1995	UT0541	PASS	Y		R2-005	GEOMETRIC
WEST-J OAT-5443	RH	II-RHR-01RHRA-CSW-02C	VCSW	H240-1	H240-1	5-G-824	UT-00	09/01/1995	UT0541	PASS	Y		R2-005	
							UT-45S	09/01/1995	UT0541	PASS	Y		R2-005	

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : C-A      PRESSURE RETAINING WELDS IN PRESSURE VESSELS  
 Item No. : C1.20      PRESSURE VESSEL HEAD CIRCUMFERENTIAL WELDS

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam Type	Exam Date	Cal Standard	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
				A	B									
1364-2106	SI	II-BIT-01STHW-02	VSTHW	H351-1	H240-1	5-G-808	UT-45S	09/20/1995	UT0561	PASS	Y	R2-005		
							UT-00	09/20/1995	UT0561	PASS	Y	R2-005		
TMAN1440C264F1-2	RC	II-SG-001SGB-STHW-02C	VSTHW	C533-6	C533-6	5-G-800	UT-60S	09/22/1995	UT0521	PASS	Y	R2-005		
							UT-00	09/22/1995	UT0521	PASS	Y	R2-005		
							UT-45S	09/22/1995	UT0521	PASS	Y	R2-005		
W-ATLAS-D 3393	CS	II-EL-001STHW-01	VSTHW	H240-1	H240-1	5-G-803	UT-45S	09/26/1995	UT0551	PASS	Y	R2-005	GEOMETRIC	REF ONLY, OK
WEST-J OAT-5443	RH	II-RHR-01RHRA-STHW-01C	VSTHW	H240-1	H240-1	5-G-824	UT-45S	09/01/1995	UT0541	PASS	Y	R2-005		
							UT-00	09/01/1995	UT0541	PASS	Y	R2-005		

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : C-A      PRESSURE RETAINING WELDS IN PRESSURE VESSELS  
 Item No. : C1.30      PRESSURE VESSEL TUBESHEET-TO-SHELL WELD

<u>ISI Drawing</u>	<u>System</u>	<u>Component Number</u>	<u>Component Description</u>	<u>Material A</u>	<u>Material B</u>	<u>Boundary Drawing</u>	<u>Exam Type</u>	<u>Exam Date</u>	<u>Cal Standard</u>	<u>Exam Result</u>	<u>Credit XI</u>	<u>TS</u>	<u>Relief Request</u>	<u>Indication Type</u>	<u>Indication Resolution</u>
TMAN1440C264F1-2	RC	II-SG-001SGC-TSTSW-09C	VTSTW	C508-1	C533-6	5-G-800	UT-45S	09/18/1995	UT0521	PASS	Y		R2-005		
							UT-00	09/18/1995	UT0521	PASS	Y		R2-005		
							UT-60S	09/18/1995	UT0521	PASS	Y		R2-005		

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : C-B      PRESSURE RETAINING NOZZLE WELDS IN VESSELS  
 Item No. : C2.21      NOZZLE-TO-SHELL(OR HEAD) WELD

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam		Cal Standard	Exam Result	Credit		Relief Request	Indication Type	Indication Resolution
				A	B		Type	Exam Date			XI	TS			
1364-2106	SI	II-BIT-01NTHW-03	VNTVWO	H182-1	H240-1	5-G-808	UT-00	09/20/1995	UT0561	PASS	Y		R2-005		
							PT	09/20/1995		PASS	Y				
							UT-45S	09/20/1995	UT0561	PASS	Y		R2-005		
1364-2106	SI	II-BIT-01NTHW-04	VNTHWI	H182-1	H240-1	5-G-808	UT-45S	09/20/1995	UT0561	PASS	Y		R2-005		
							UT-00	09/20/1995	UT0561	PASS	Y		R2-005		
							PT	09/20/1995		PASS	Y				

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Page: 46  
 Date: 12/22/1995  
 Revision: 20

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : C-B      PRESSURE RETAINING NOZZLE WELDS IN VESSELS  
 Item No. : C2.31      REINFORCING PLATE WELDS TO NOZZLE AND VESSEL

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam Type	Exam Date	Cal Standard	Exam Result	Credit XI TS	Relief Request	Indication Type	Indication Resolution
				A	B									
1364-91,017	RH	II-RHR-01RHRA-SR-4C	VI,SR	H240-1	H240-1	5-G-824	PT	08/30/1995		PASS	Y			SURF, LINEAR < CODE SIZE SURF, LINEAR < CODE SIZE SURF, LINEAR < CODE SIZE SURF, ROUND < CODE SIZE SURF, ROUND < CODE SIZE
1364-91,017	RH	II-RHR-01RHRA-SR-4D	VI,SR	H240-1	H240-1	5-G-824	PT	08/30/1995		PASS	Y			
1364-91,017	RH	II-RHR-01RHRA-SR-5D	VI,SR	H240-1	H240-1	5-G-824	PT	08/30/1995		PASS	Y			

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Page: 47  
 Date: 12/22/1995  
 Revision: 20

Exam Requirement : 81S-01 Outage : 1-3-06  
 Interval : 1 Period : 3

Category : C-C INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, PUMPS, AND VALVES  
 Item No. : C3.20 PIPING INTEGRALLY WELDED ATTACHMENTS

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam Type	Exam Date	Cal Standard	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
				A	B									
1A-236-CS-21	CS	II-CS-021CS-H-00111(4)	PC, PIPE PI, LUEN	H312-1	H240-1	5-G-805	PT	09/22/1995		PASS	Y	R2-001		
1C-261-AF-03	AF	II-AF-010AF-H-03201(8)	PC, PIPE PI, LUEN	C106-1	CS15-1	5-G-044	MT	09/22/1995		PASS	Y			
1C-261-AF-03	AF	II-AF-010AF-H-03281(8)	PC, PIPE PI, LUEN	C106-1	CS15-1	5-G-044	MT	09/22/1995		PASS	Y			
1C-FW-MS-RC-01	FW	II-FWR-01FW-H-02121(8)	PC, PIPE PI, LUEN	C106-1	C036-1	5-G-044	MT	09/26/1995		PASS	Y	R2-001		
1C-FW-MS-RC-01	MS	II-FWR-01MS-H-00051(4)	PC, PIPE PI, LUEN	C106-2	CS15-1	5-G-042	MT	09/20/1995		PASS	Y			
1C-FW-MS-RC-01	MS	II-FWR-01MS-H-00061(2)	PC, PIPE PI, TRUN	C106-2	C106-2	5-G-042	MT	09/20/1995		PASS	Y			

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Page: 48  
 Date: 12/22/1995  
 Revision: 20

Exam Requirement : 83S-01 Outage : 1-3-06  
 Interval : 1 Period : 3

Category : C-C INTEGRAL ATTACHMENTS FOR VESSELS, PIPING, PUMPS, AND VALVES  
 Item No. : C3.30 PUMP INTEGRALLY WELDED ATTACHMENTS

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam Type	Exam Date	Cal Standard	Exam Result	Credit XI	Relief Request	Indication Type	Indication Resolution
				A	B									
II-CSIP-1	CS	II-CSIP-1CSIP-A-WA3	TIFEET	H351-3	H182-1	5-G-805	PT	09/25/1995		PASS	Y	R2-001	SURF, ROUND	< CODE SIZE
II-CSIP-1	CS	II-CSIP-1CSIP-A-WA4	TIFEET	H351-3	H182-1	5-G-805	PT	08/31/1995		PASS	Y	R2-001		
II-RHRP-1	RH	II-RHRP-1RHRP-A-WA3	TIFEET	H240-1	H182-1		PT	08/31/1995		PASS	Y			



Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Page: 49  
 Date: 12/22/1995  
 Revision: 20

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : C-F      PRESSURE RETAINING WELDS IN PIPING  
 Item No. : C5.11      PIPING CIRCUMFERENTIAL WELD <= 1/2" NOMINAL WALL THICKNESS

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam Type	Exam Date	Cal Standard	Exam Result	Credit		Relief Request	Indication Type	Indication Resolution
				A	B						XI	TS			
II-CS-021	CS	II-CS-021CS-SW-18	PBCC,T PC,PIPE	H403-1	H312-1	5-G-805	PT	09/22/1995		PASS	Y				
II-CS-021	CS	II-CS-021CS-SW-19	PC,PIPE PBCC,T	H312-1	H403-1	5-G-805	PT	09/22/1995		PASS	Y				
II-CT-001	CT	II-CT-001CT-FW-10	PC,PIPE PP,FHS	H376-1	H312-1	5-G-050	PT	08/31/1995		PASS	Y				
II-CT-001	CT	II-CT-001CT-FW-16	PC,PIPE PC,VENC	H358-1	H182-3	5-G-050	PT	08/29/1995		PASS	Y				
II-CT-001	CT	II-CT-001CT-FW-17	PC,VENC PC,PIPE	H182-3	H358-1	5-G-050	PT	08/29/1995		PASS	Y				
II-CT-001	CT	II-CT-001CT-FW-8	PC,PIPE PC,VLV	H376-1	H351-3	5-G-050	PT	08/31/1995		PASS	Y				
II-CT-001	CT	II-CT-001CT-FW-9	PC,VLV PC,PIPE	H351-3	H376-1	5-G-050	PT	08/31/1995		PASS	Y				
II-CT-001	CT	II-CT-001CT-SW-B4	PC,PIPE PC,PIPE	H358-1	H358-1	5-G-050	PT	08/29/1995		PASS	Y				
II-CT-001	CT	II-CT-001CT-SW-C8	PE,LR PC,PIPE	H403-1	H312-1	5-G-050	PT	08/30/1995		PASS	Y				
II-CT-001	CT	II-CT-001CT-SW-G3	PE,LR PC,PIPE	H403-1	H376-1	5-G-050	PT	08/31/1995		PASS	Y				
II-CT-002	CT	II-CT-002CT-1-1-SW-1	PC,PIPE PC,PIPE	H358-1	H358-1	5-G-050	PT	08/31/1995		PASS	Y				
II-CT-002	CT	II-CT-002CT-FW-19	PC,PIPE PC,VLV	H376-1	H351-3	5-G-050	PT	09/01/1995		PASS	Y				

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Exam Requirement : 83S-01    Outage : 1-3-06  
 Interval : 1    Period : 3

Category : C-F    PRESSURE RETAINING WELDS IN PIPING  
 Item No. : C5.11    PIPING CIRCUMFERENTIAL WELD <= 1/2" NOMINAL WALL THICKNESS

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam Type	Exam Date	Cal Standard	Exam Result	Credit		Relief Request	Indication Type	Indication Resolution
				A	B						XI	TS			
II-CT-002	CT	II-CT-002CT-FW-19	PC, PIPE PC, VLV	H376-1	H351-3	5-G-050	PT	08/31/1995		PASS	Y			ARC STRIKE	REF ONLY, OK
II-CT-002	CT	II-CT-002CT-FW-20	PC, VLV PC, PIPE	H351-3	H358-1	5-G-050	PT	08/31/1995		PASS	Y			ARC STRIKE	REF ONLY, OK
II-CT-002	CT	II-CT-002CT-FW-21	PC, PIPE PP, FHS	H358-1	H312-1	5-G-050	PT	08/31/1995		PASS	Y			ARC STRIKE	REF ONLY, OK
II-CT-002	CT	II-CT-002CT-SW-G3	PE, LR PC, PIPE	H403-1	H376-1	5-G-050	PT	08/31/1995		PASS	Y				
II-CT-008	CT	II-CT-008CT-FW-45	PC, VLV PC, PIPE	H351-2	H358-1	5-G-050	PT	08/31/1995		PASS	Y				
II-CT-008	CT	II-CT-008CT-SW-F8	PC, PIPE PBCC, T	H358-1	H403-1	5-G-050	PT	09/25/1995		PASS	Y				
II-MS-001	MS	II-MS-001MS-SW-C30	PBCC, EX PC, PIPE	C516-1	C106-2	5-G-042	PT	09/25/1995		PASS	Y				
II-MS-001	MS	II-MS-001MS-SW-C34	PBCC, EX PC, PIPE	C516-1	C106-2	5-G-042	MT	09/10/1995		PASS	Y				
II-RH-002	RH	II-RH-002RH-FW-16	PP, FHS PC, PB	H312-1	H358-1	5-G-824	PT	08/31/1995		PASS	Y				
II-RH-002	RH	II-RH-002RH-FW-19	PE, LR PC, PIPE	H403-1	H358-1	5-G-824	PT	08/30/1995		PASS	Y				
II-RH-002	RH	II-RH-002RH-FW-20	PE, LR PC, PIPE	H403-1	H358-1	5-G-824	PT	08/30/1995		PASS	Y				
II-RH-002	RH	II-RH-002RH-FW-21	PE, LR VNOZ1BI	H403-1	H182-1	5-G-824	PT	08/30/1995		PASS	Y				

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Page: 51  
 Date: 12/22/1995  
 Revision: 20

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : C-F      PRESSURE RETAINING WELDS IN PIPING  
 Item No. : C5.11      PIPING CIRCUMFERENTIAL WELD <= 1/2" NOMINAL WALL THICKNESS

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam Type	Exam Date	Cal Standard	Exam Result	Credit XI TS	Relief Request	Indication Type	Indication Resolution
				A	B									
II-RH-002	RH	II-RH-002RH-FW-21	PE,LR VNOZ1BI	H403-1	H182-1	5-G-824	PT	08/31/1995		PASS	Y			
II-RH-002	RH	II-RH-002RH-SW-A3	PC,PIPE PE,LR	H358-1	H403-1	5-G-824	PT	08/31/1995		PASS	Y			
II-RH-002	RH	II-RH-002RH-SW-D6	PC,PIPE PC,PIPE	H358-1	H358-1	5-G-824	PT	08/30/1995		PASS	Y			
II-RH-002	RH	II-RH-002RH-SW-E3	PC,PIPE PE,LR	H358-1	H403-1	5-G-824	PT	08/30/1995		PASS	Y			
II-RH-002	RH	II-RH-002RH-SW-E8	PC,PIPE PBCC,TR	H358-1	H403-1	5-G-824	PT	08/29/1995		PASS	Y			
II-RH-004	RH	II-RH-004RH-SW-B7	PC,RED PC,PIPE	H403-1	H376-1	5-G-824	PT	08/31/1995		PASS	Y			
II-SI-008	RH	II-SI-008RH-SW-K5	PC,PIPE PF,WNO	H312-1	H182-1	5-G-824	PT	08/30/1995		PASS	Y			
II-SI-008	SI	II-SI-008SI-SW-B4	PE,LR PC,PIPE	H403-1	H376-1	5-G-810	PT	08/30/1995		PASS	Y			
II-SI-008	SI	II-SI-008SI-SW-E5	PE,LR PE,LR	H403-1	H403-1	5-G-810	PT	08/31/1995		PASS	Y			

Carolina Power & Light Company  
Harris Nuclear Power Plant  
Post Outage Examination Results Report  
Heading Line 1  
Heading Line 2  
Welds

Page: 52  
Date: 12/22/1995  
Revision: 20

Exam Requirement : 83S-01      Outage : 1-3-06  
Interval : 1      Period : 3

Category : C-F      PRESSURE RETAINING WELDS IN PIPING  
Item No. : C5.12      PIPING LONGITUDINAL WELD <= 1/2" NOMINAL WALL THICKNESS

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam Type	Exam Date	Cal Standard	Exam Result	Credit XI TS	Relief Request	Indication Type	Indication Resolution
				A	B									
II-CS-021	CS	II-CS-021CS-SW-I8A	PLSW,P	H312-1		5-G-805	PT	09/22/1995		PASS	Y			
II-CS-021	CS	II-CS-021CS-SW-I9A	PLSW,P	H312-1		5-G-805	PT	09/22/1995		PASS	Y			
II-CT-001	CT	II-CT-001CT-FW-16A	PLSW,P	H358-1		5-G-050	PT	08/29/1995		PASS	Y			
II-CT-001	CT	II-CT-001CT-SW-B4A	PLSW,P	H358-1		5-G-050	PT	08/29/1995		PASS	Y			
II-CT-001	CT	II-CT-001CT-SW-B4B	PLSW,P	H358-1		5-G-050	PT	08/29/1995		PASS	Y			
II-CT-002	CT	II-CT-002CT-1-1-SW-1A	PLSW,P	H358-1		5-G-050	PT	08/29/1995		PASS	Y			
II-CT-002	CT	II-CT-002CT-1-1-SW-1B	PLSW,P	H358-1		5-G-050	PT	09/01/1995		PASS	Y			
II-CT-008	CT	II-CT-008CT-FW-45A	PLSW,P	H358-1		5-G-050	PT	09/01/1995		PASS	Y			
II-CT-008	CT	II-CT-008CT-SW-F8A	PLSW,P	H358-1		5-G-050	PT	09/25/1995		PASS	Y			
II-RH-002	RH	II-RH-002RH-FW-16A	PLSW,P	H358-1		5-G-824	PT	08/31/1995		PASS	Y			
II-RH-002	RH	II-RH-002RH-FW-19A	PLSW,P	H358-1		5-G-824	PT	08/30/1995		PASS	Y			
II-RH-002	RH	II-RH-002RH-FW-20A	PLSW,P	H358-1		5-G-824	PT	08/30/1995		PASS	Y			

Carolina Power & Light Company  
Harris Nuclear Power Plant  
Post Outage Examination Results Report  
Heading Line 1  
Heading Line 2  
Welds

Page: 53  
Date: 12/22/1995  
Revision: 20

Exam Requirement : 83S-01      Outage : 1-3-06  
Interval : 1      Period : 3

Category : C-F      PRESSURE RETAINING WELDS IN PIPING  
Item No. : C5.12      PIPING LONGITUDINAL WELD <= 1/2" NOMINAL WALL THICKNESS

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam Type	Exam Date	Cal Standard	Exam Result	Credit		Relief Request	Indication Type	Indication Resolution
				A	B						XI	TS			
II-RH-002	RH	II-RH-002RH-FW-20A	PLSW,P	H358-1		5-G-824	PT	08/30/1995		PASS	Y				
II-RH-002	RH	II-RH-002RH-FW-21A	PLSW,EO	H403-1		5-G-824	PT	08/31/1995		PASS	Y				
II-RH-002	RH	II-RH-002RH-FW-21B	PLSW,EI	H403-1		5-G-824	PT	08/31/1995		PASS	Y				
II-RH-002	RH	II-RH-002RH-SW-A3A	PLSW,P	H358-1		5-G-824	PT	08/31/1995		PASS	Y				
II-RH-002	RH	II-RH-002RH-SW-D6A	PLSW,P	H358-1		5-G-824	PT	08/30/1995		PASS	Y				
II-RH-002	RH	II-RH-002RH-SW-D6B	PLSW,P	H358-1		5-G-824	PT	08/30/1995		PASS	Y				
II-SI-008	RH	II-SI-008RH-SW-K5A	PLSW,P	H312-1		5-G-824	PT	08/30/1995		PASS	Y				



Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : C-F      PRESSURE RETAINING WELDS IN PIPING  
 Item No. : C5.21      PIPING CIRCUMFERENTIAL WELD > 1/2" NOMINAL WALL THICKNESS

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam Type	Exam Date	Cal Standard	Exam Result	Credit		Relief Request	Indication Type	Indication Resolution
				A	B						XI	TS			
II-MS-001	MS	II-MS-001MS-FW-302	PC, PIPE PC, VLV	C106-5	C216-1	5-G-042	MT	09/10/1995		PASS	Y				
							PT	09/25/1995		PASS	Y				
II-MS-001	MS	II-MS-001MS-SW-C11	PC, PIPE PC, NOZW	C106-2	C106-2	5-G-042	MT	09/10/1995		PASS	Y				
II-MS-001	MS	II-MS-001MS-SW-C12	PC, PIPE PC, NOZW	C516-1	C106-2	5-G-042	MT	09/10/1995		PASS	Y				
II-MS-001	MS	II-MS-001MS-SW-C13	PC, PIPE PC, NOZW	C516-1	C106-2	5-G-042	MT	09/10/1995		PASS	Y				
II-MS-001	MS	II-MS-001MS-SW-C14	PC, PIPE PC, NOZW	C516-1	C106-2	5-G-042	MT	09/10/1995		PASS	Y				
II-MS-001	MS	II-MS-001MS-SW-C15	PC, PIPE PC, NOZW	C516-1	C106-2	5-G-042	MT	09/10/1995		PASS	Y				
							UT-45S	09/21/1995	UT0411	PASS	Y				
II-MS-001	MS	II-MS-001MS-SW-C4	PBCC, EX PC, PIPE	C516-1	C106-2	5-G-042	MT	09/20/1995		PASS	Y				
							UT-45S	09/22/1995	UT0251	PASS	Y		GEOMETRIC	REF ONLY, OK	
II-MS-001	MS	II-MS-001MS-SW-C5	PC, PIPE PC, CAP	C106-2	C106-2	5-G-042	MT	09/22/1995		PASS	Y				
							UT-45S	09/22/1995	UT0251	PASS	Y		GEOMETRIC	REF ONLY, OK	
II-SI-003	SI	II-SI-003SI-FW-269	VNOZ1X0 PC, PIPE	H182-1	H376-1	5-G-808	MT	09/22/1995		PASS	Y				
							UT-45S	09/21/1995	UT0201	PASS	Y				
II-SI-008	SI	II-SI-008SI-FW-450	PC, VLV PC, PIPE	H182-1	H376-1	5-G-810	PT	09/21/1995		PASS	Y				

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : C-F      PRESSURE RETAINING WELDS IN PIPING  
 Item No. : C5.21      PIPING CIRCUMFERENTIAL WELD > 1/2" NOMINAL WALL THICKNESS

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam		Cal Standard	Exam Result	Credit		Relief Request	Indication Type	Indication Resolution
				A	B		Type	Exam Date			XI	TS			
II-SI-008	SI	II-SI-008SI-FW-450	PC,VLV PC,PIPE	H182-1	H376-1	5-G-810	UT-60S	08/30/1995	UT0231	PASS	Y				
							PT	08/30/1995		PASS	Y				
							UT-45S	08/30/1995	UT0231	PASS	Y				
II-SI-023	SI	II-SI-023SI-SW-B3	PE,LR PC,PIPE	H403-3	H376-3	5-G-809	PT	09/26/1995		PASS	Y				
							UT-53S	09/27/1995	UT0261	PASS	Y			GEOMETRIC	REF ONLY, OK
II-SI-025	SI	II-SI-025SI-FW-578	PC,PB PC,VLV	H376-1	H182-3	5-G-810	UT-45S	09/25/1995	UT0201	PASS	Y	R2-003			
							PT	09/25/1995		PASS	Y				
II-SI-025	SI	II-SI-025SI-FW-580	PC,VLV PC,PIPE	H182-3	H376-1	5-G-810	PT	09/25/1995		PASS	Y				
							UT-45S	09/25/1995	UT0201	PASS	Y	R2-003			
II-SI-025	SI	II-SI-025SI-FW-583	PBCC,T PC,PIPE	H403-3	H376-1	5-G-810	UT-45S	09/25/1995	UT0201	PASS	Y	R2-003			
							PT	09/25/1995		PASS	Y				
II-SI-028	SI	II-SI-028SI-SW-A4	PE,LR PC,PIPE	H403-3	H376-3	5-G-810	UT-60S	09/28/1995	UT0231	PASS	Y			BEAM REDIR	REF ONLY, OK
							PT	09/26/1995		PASS	Y				



Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Page: 57  
 Date: 12/22/1995  
 Revision: 20

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : C-F      PRESSURE RETAINING WELDS IN PIPING  
 Item No. : CS.22      PIPING LONGITUDINAL WELD > 1/2" NOMINAL WALL THICKNESS

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam		Cal Standard	Exam Result	Credit		Relief Request	Indication Type	Indication Resolution
				A	B		Type	Exam Date			XI	TS			
II-FMR-03	MS	II-FMR-03MS-FW-289A	PLSW,EO	C234-4		5-G-042	MT	09/25/1995		PASS	Y				
							UT-45S	09/25/1995	UT0311	PASS	Y				
II-FMR-03	MS	II-FMR-03MS-FW-289B	PLSW,EI	C234-4		5-G-042	UT-45S	09/25/1995	UT0311	PASS	Y				
							MT	09/25/1995		PASS	Y				
II-FMR-03	MS	II-FMR-03MS-SW-A4A	PLSW,P	C106-2		5-G-042	MT	09/25/1995		PASS	Y				
							UT-45S	09/25/1995	UT0311	PASS	Y				
II-FMR-03	MS	II-FMR-03MS-SW-A4B	PLSW,P	C106-2		5-G-042	UT-45S	09/25/1995	UT0311	PASS	Y				
							MT	09/25/1995		PASS	Y				
II-MS-001	MS	II-MS-001MS-FW-302A	PLSW,P	C106-5		5-G-042	MT	09/10/1995		PASS	Y				

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Page: 58  
 Date: 12/22/1995  
 Revision: 20

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : SER  
 Item No. : 250.1V

<u>ISI Drawing</u>	<u>System</u>	<u>Component Number</u>	<u>Component Description</u>	<u>Material</u>		<u>Boundary Drawing</u>	<u>Exam</u>		<u>Cal Standard</u>	<u>Exam Result</u>	<u>Credit</u>		<u>Relief Request</u>	<u>Indication</u>	
				<u>A</u>	<u>B</u>		<u>Type</u>	<u>Exam Date</u>			<u>XI</u>	<u>TC</u>		<u>Type</u>	<u>Resolution</u>
II-CT-001	CT	II-CT-001CT-SW-B4A	PLSW,P	H358-1		5-G-050									
							UT-45S	08/29/1995	UT0211	PASS	Y				
II-CT-001	CT	II-CT-001CT-SW-B4B	PLSW,P	H358-1		5-G-050									
							UT-45S	08/29/1995	UT0211	PASS	Y				
II-CT-002	CT	II-CT-002CT-1-1-SW-1A	PLSW,P	H358-1		5-G-050									
							UT-45S	09/01/1995	UT0211	PASS	Y				
II-CT-002	CT	II-CT-002CT-1-1-SW-1B	PLSW,P	H358-1		5-G-050									
							UT-45S	09/01/1995	UT0211	PASS	Y				
II-RH-002	RH	II-RH-002RH-SW-D6A	PLSW,P	H358-1		5-C-824									
							UT-45S	08/28/1995	UT0241	PASS	Y				

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Page: 59  
 Date: 12/22/1995  
 Revision: 20

Exam Requirement : B02-01    Outage : 1-3-06  
 Interval : 1    Period : 3

Category : RG1.14    REACTOR COOLANT PUMP FLYWHEEL INTEGRITY EXAMINATION  
 Item No. : BORE    REACTOR COOLANT PUMP FLYWHEEL BORE - UT

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam		Cal Standard	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
				A	B		Type	Exam Date						
II-RCP-02	RC	II-RCP-02RCP-A-FLYWHEEL	TFLYWHL	C533-1		5-G-800								
II-RCP-02	RC	II-RCP-02RCP-B-FLYWHEEL	TFLYWHL	C533-1		5-G-800	UT-00	09/14/1995		PASS	Y			
II-RCP-02	RC	II-RCP-02RCP-C-FLYWHEEL	TFLYWHL	C533-1		5-G-800	UT-00	09/14/1995		PASS	Y			
							UT-00	09/14/1995		PASS	Y			

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Exam Requirement : B02-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : RG1.14 REACTOR COOLANT PUMP FLYWHEEL INTEGRITY EXAMINATION  
 Item No. : FLYWHL REACTOR COOLANT PUMP FLYWHEEL -SURFACE AND UT

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam		Cal Standard	Exam Result	Credit		Relief Request	Indication Type	Indication Resolution
				A	B		Type	Exam Date			XI	TS			
II-RCP-02	RC	II-RCP-02RCP-A-FLYWHEEL	TFLYWHL	C533-1		5-G-800	PT	09/14/1995		PASS	Y				
							UT-00	09/13/1995	COMP	PASS	Y				
II-RCP-02	RC	II-RCP-02RCP-B-FLYWHEEL	TFLYWHL	C533-1		5-G-800	UT-00	09/13/1995	COMP	PASS	Y				
II-RCP-02	RC	II-RCP-02RCP-C-FLYWHEEL	TFLYWHL	C533-1		5-G-800	UT-00	09/13/1995	COMP	PASS	Y				

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Page: 61  
 Date: 12/22/1995  
 Revision: 20

Exam Requirement : B03-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : SER      SAFETY EVALUATION REPORT, SAFETY REVIEW QUESTION  
 Item No. : 250.1S      SAFETY EVALUATION REPORT, SAFETY REVIEW QUESTION #250.1

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam Type	Exam Date	Cal Standard	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
				A	B									
II-CT-007	CT	II-CT-007CT-FW-80A	PLSW,P	H358-1		5-G-050	PT	09/25/1995		PASS	Y			
II-CT-007	CT	II-CT-007CT-FW-80B	PLSW,P	H358-1		5-G-050	PT	09/25/1995		PASS	Y			
II-CT-007	CT	II-CT-007CT-FW-88	PC,RED PC,PIPE	H403-1	H358-1	5-G-050	PT	09/24/1995		PASS	Y			
II-CT-007	CT	II-CT-007CT-FW-88A	PLSW,R	H403-1		5-G-050	PT	09/24/1995		PASS	Y			
II-CT-007	CT	II-CT-007CT-FW-88B	PLSW,P	H403-1		5-G-050	PT	09/24/1995		PASS	Y			
II-CT-007	CT	II-CT-007CT-SW-L3	PE,SR PC,PIPE	H403-1	H358-1	5-G-050	PT	09/25/1995		PASS	Y			
II-CT-007	CT	II-CT-007CT-SW-L3A	PLSW,P	H358-1		5-G-050	PT	09/25/1995		PASS	Y			
II-CT-007	CT	II-CT-007CT-SW-L3B	PLSW,EO	H403-1		5-G-050	PT	09/25/1995		PASS	Y			
II-CT-007	CT	II-CT-007CT-SW-L3C	PLSW,EI	H403-1		5-G-050	PT	09/25/1995		PASS	Y			
II-CT-007	CT	II-CT-007CT-SW-P23	PBCC,TR PC,PIPE	H403-1	H358-1	5-G-050	PT	09/24/1995		PASS	Y			
II-CT-007	CT	II-CT-007CT-SW-P23A	PLSW,P	H358-1		5-G-050	PT	09/24/1995		PASS	Y			
II-CT-007	CT	II-CT-007CT-SW-U3	PE,LR PC,PIPE	H403-1	H358-1	5-G-050	PT	09/24/1995		PASS	Y			

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Page: 62  
 Date: 12/22/1995  
 Revision: 20

Exam Requirement : B03-01 Outage : 1-3-06  
 Interval : 1 Period : 3

Category : SER SAFETY EVALUATION REPORT, SAFETY REVIEW QUESTION  
 Item No. : 250.1S SAFETY EVALUATION REPORT, SAFETY REVIEW QUESTION #250.1

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam Type	Exam Date	Cal Standard	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
				A	B									
II-CT-007	CT	II-CT-007CT-SW-U3	FE, LR PC, PIPE	H403-1	H358-1	5-G-050	PT	09/24/1995		PASS	Y			
II-CT-007	CT	II-CT-007CT-SW-U3A	PLSW, P	H358-1		5-G-050	PT	09/24/1995		PASS	Y			
II-RH-002	CT	II-RH-002CT-FW-62	PC, PIPE	PC, VLV	H358-1	H182-1	PT	08/29/1995		PASS	Y			
II-RH-002	CT	II-RH-002CT-FW-62A	PLSW, P	H358-1		5-G-050	PT	08/29/1995		PASS	Y			
II-SI-027	SI	II-SI-027SI-FW-569	PC, RED	PSW, CPL	H403-1	H376-1	PT	09/27/1995		PASS	Y			
II-SI-027	SI	II-SI-027SI-SW-I5	PSW, CPL	PC, PIPE	H182-3	H376-1	PT	09/27/1995		PASS	Y			

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Exam Requirement : B03-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : SER      SAFETY EVALUATION REPORT, SAFETY REVIEW QUESTION  
 Item No. : 250.1V      SAFETY EVALUATION REPORT, SAFETY REVIEW QUESTION #250.1

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam		Cal Standard	Exam Result	Credit		Relief Request	Indication	
				A	B		Type	Exam Date			XI	TS		Type	Resolution
II-CT-001	CT	II-CT-001CT-6-3-SW-1	PC, PIPE PC, PIPE	H376-1	H376-1	5-G-050									
II-CT-001	CT	II-CT-001CT-FW-10	PC, PIPE PP, FHS	H376-1	H312-1	5-G-050	UT-45S	08/26/1995	UT0211	PASS	Y				
II-CT-001	CT	II-CT-001CT-FW-16	PC, PIPE PC, VENC	H358-1	H182-3	5-G-050	UT-45S	08/30/1995	UT0211	PASS	Y				
II-CT-001	CT	II-CT-001CT-FW-16A	FLSW, P	H358-1		5-G-050	UT-45S	08/26/1995	UT0211	PASS	Y				
II-CT-001	CT	II-CT-001CT-FW-17	PC, VENC PC, PIPE	H182-3	H358-1	5-G-050	UT-45S	08/26/1995	UT0211	PASS	Y				
II-CT-001	CT	II-CT-001CT-FW-8	PC, PIPE PC, VLV	H376-1	H351-3	5-G-050	UT-45S	08/26/1995	UT0211	PASS	Y				
II-CT-001	CT	II-CT-001CT-FW-9	PC, VLV PC, PIPE	H351-3	H376-1	5-G-050	UT-45S	08/30/1995	UT0211	PASS	Y		R2-003		
II-CT-001	CT	II-CT-001CT-SW-B4	PC, PIPE PC, PIPE	H358-1	H358-1	5-G-050	UT-45S	08/30/1995	UT0211	PASS	Y		R2-003		
II-CT-001	CT	II-CT-001CT-SW-C4	PC, PIPE PBCC, TR	H312-1	H403-1	5-G-050	UT-45S	08/29/1995	UT0211	PASS	Y				
II-CT-001	CT	II-CT-001CT-SW-C5	PBCC, TR PC, PIPE	H403-1	H312-1	5-G-050	UT-45S	08/30/1995	UT0211	PASS	Y				
II-CT-001	CT	II-CT-001CT-SW-D3	PE, LR PC, PIPE	H403-1	H312-1	5-G-050	UT-45S	08/30/1995	UT0211	PASS	Y				
II-CT-001	CT	II-CT-001CT-SW-E4	PC, PIPE PC, PIPE	H376-1	H376-1	5-G-050	UT-45S	08/30/1995	UT0211	PASS	Y				

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Exam Requirement : B03-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : SER      SAFETY EVALUATION REPORT, SAFETY REVIEW QUESTION  
 Item No. : 250.1V      SAFETY EVALUATION REPORT, SAFETY REVIEW QUESTION #250.1

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam		Cal Standard	Exam Result	Credit		Relief Request	Indication Type	Indication Resolution
				A	B		Type	Exam Date			XI	TS			
II-CT-001	CT	II-CT-001CT-SW-B4	PC, PIPE PC, PIPE	H376-1	H376-1	5-G-050	UT-45S	08/30/1995	UT0211	PASS	Y				
II-CT-001	CT	II-CT-001CT-SW-G3	PE, LR PC, PIPE	H403-1	H376-1	5-G-050	UT-45S	08/29/1995	UT0211	PASS	Y				
II-CT-002	CT	II-CT-002CT-1-1-SW-1	PC, PIPE PC, PIPE	H358-1	H358-1	5-G-050	UT-45S	09/01/1995	UT0211	PASS	Y				
II-CT-002	CT	II-CT-002CT-FW-19	PC, PIPE PC, VLV	H376-1	H351-3	5-G-050	UT-45S	08/31/1995	UT0211	PASS	Y	R2-003	GEOMETRIC	REF ONLY, OK	
II-CT-002	CT	II-CT-002CT-FW-20	PC, VLV PC, PIPE	H351-3	H358-1	5-G-050	UT-45S	08/31/1995	UT0211	PASS	Y	R2-003			
II-CT-002	CT	II-CT-002CT-FW-20A	PLSW, P	H358-1		5-G-050	UT-45S	08/31/1995	UT0211	PASS	Y				
II-CT-002	CT	II-CT-002CT-FW-21	PC, PIPE PP, FHS	H358-1	H312-1	5-G-050	UT-45S	08/31/1995	UT0211	PASS	Y				
II-CT-002	CT	II-CT-002CT-FW-21A	PLSW, P	H358-1		5-G-050	UT-45S	08/31/1995	UT0211	PASS	Y				
II-CT-002	CT	II-CT-002CT-SW-G3	PE, LR PC, PIPE	H403-1	H376-1	5-G-050	UT-45S	08/31/1995	UT0211	PASS	Y				
II-RH-002	RH	II-RH-002RH-FW-16	PP, FHS PC, PB	H312-1	H358-1	5-G-824	UT-45S	08/31/1995	UT0211	PASS	Y				
II-RH-002	RH	II-RH-002RH-FW-16A	PLSW, P	H358-1		5-G-824	UT-45S	08/28/1995	UT0241	PASS	Y				
II-RH-002	RH	II-RH-002RH-FW-21	PE, LR VNOZ1BI	H403-1	H182-1	5-G-824	UT-45S	08/28/1995	UT0241	PASS	Y				



Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Exam Requirement : B03-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : SER      SAFETY EVALUATION REPORT, SAFETY REVIEW QUESTION  
 Item No. : 250.1V      SAFETY EVALUATION REPORT, SAFETY REVIEW QUESTION #250.1

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam Type	Exam Date	Cal Standard	Exam Result	Credit XI TS	Relief Request	Indication Type	Indication Resolution
				A	B									
II-RH-002	RH	II-RH-002RH-FW-21	PE,LR VNOZ1BI	H403-1	H182-1	5-G-824								
II-RH-002	RH	II-RH-002RH-FW-21A	PLSW,EO	H403-1		5-G-824	UT-45S	09/01/1995	UT0211	PASS	Y		R2-003	
II-RH-002	RH	II-RH-002RH-FW-21B	PLSW,EI	H403-1		5-G-824	UT-45S	09/01/1995	UT0211	PASS	Y			
II-RH-002	RH	II-RH-002RH-SW-A3	PC,PIPE PE,LR	H358-1	H403-1	5-G-824	UT-45S	09/01/1995	UT0211	PASS	Y			
II-RH-002	RH	II-RH-002RH-SW-A3A	PLSW,P	H358-1		5-G-824	UT-45S	08/28/1995	UT0241	PASS	Y			
II-RH-002	RH	II-RH-002RH-SW-D6	PC,PIPE PC,PIPE	H358-1	H358-1	5-G-824	UT-45S	08/28/1995	UT0241	PASS	Y			
II-RH-002	RH	II-RH-002RH-SW-D6B	PLSW,P	H358-1		5-G-824	UT-45S	08/28/1995	UT0241	PASS	Y			
II-SI-003	SI	II-SI-003SI-14-1-SW-1	PC,PIPE PE,LR	H376-1	H403-1	5-G-808	UT-45S	08/28/1995	UT0241	PASS	Y			
II-SI-003	SI	II-SI-003SI-FW-269	VNOZ1XO PC,PIPE	H182-1	H376-1	5-G-808	UT-45S	09/21/1995	UT0141	PASS	Y			
II-SI-003	SI	II-SI-003SI-SW-A6	PE,LR PC,PIPE	H403-1	H376-1	5-G-808	UT-45S	09/21/1995	UT0201	PASS	Y			
II-SI-027	SI	II-SI-027SI-SW-J5	PC,PB PC,RED	H376-1	H403-1	5-G-808	UT-45S	09/21/1995	UT0141	PASS	Y			
							UT-45S	09/27/1995	UT0141	PASS	Y			



Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Exam Requirement : B04-01    Outage : i-3-06  
 Interval : 1    Period : 3

Category : FSAR    FINAL SAFETY ANALYSIS REPORT - SECTION 6.6.B,  
 Item No. : 6.6.8B    AUGMENTED PIPING WELD VOLUMETRIC EXAMINATION PER FSAR

<u>ISI Drawing</u>	<u>System</u>	<u>Component Number</u>	<u>Component Description</u>	<u>Material</u>		<u>Boundary Drawing</u>	<u>Exam</u>		<u>Cal Standard</u>	<u>Exam Result</u>	<u>Credit</u> XI TS	<u>Relief Request</u>	<u>Indication Type</u>	<u>Indication Resolution</u>
				<u>A</u>	<u>B</u>		<u>Type</u>	<u>Exam Date</u>						
II-AF-007	AF	II-AF-007AF-SW-B3	PC,VENC PC,PIPE	C106-1	C106-1	5-G-044	UT-45S	09/07/1995	UT0162	PASS	Y		GEOMETRIC	REF ONLY, OK
II-AF-007	AF	II-AF-007AF-SW-B5	PBCC,T PC,PIPE	C234-1	C106-1	5-G-044	UT-45S	09/07/1995	UT0162	PASS	Y		GEOMETRIC	REF ONLY, OK
II-AF-007	AF	II-AF-007AF-SW-B6	PC,PIPE PBCC,T	C106-1	C234-1	5-G-044	UT-45S	09/07/1995	UT0162	PASS	Y			

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Page: 68  
 Date: 12/22/1995  
 Revision: 20

Exam Requirement : B05-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : FSAR      FINAL SAFETY ANALYSIS REPORT - SECTION 6.6.8.  
 Item No. : 6.6.8C      AUGMENTED PIPING WELD VOLUMETRIC EXAMINATION PER FSAR

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam		Cal Standard	Exam Result	Credit		Relief Request	Indication Type	Indication Resolution
				A	B		Type	Exam Date			XI	TS			
II-MS-001	MS	II-MS-001MS-64-1-MW-1	PC, PIPE PC, PIPE	C155-2	C155-2	5-G-042									
II-MS-001	MS	II-MS-001MS-64-1-MW-1A	PLSW, P	C155-2		5-G-042	UT-45S	09/20/1995	UT0341	PASS	Y				
II-MS-001	MS	II-MS-001MS-64-1-MW-1B	PLSW, P	C155-2		5-G-042	UT-45S	09/20/1995	UT0341	PASS	Y				
II-MS-001	MS	II-MS-001MS-64-1-MW-2	PC, PIPE PC, PIPE	C155-2	C155-2	5-G-042	UT-45S	09/20/1995	UT0341	PASS	Y				
II-MS-001	MS	II-MS-001MS-64-1-MW-2A	PLSW, P	C155-2		5-G-042	UT-45S	09/20/1995	UT0341	PASS	Y				
II-MS-001	MS	II-MS-001MS-64-1-MW-2B	PLSW, P	C155-2		5-G-042	UT-45S	09/20/1995	UT0341	PASS	Y				
II-MS-001	MS	II-MS-001MS-FW-256	PE, LR PC, PIPE	C234-1	C106-1	5-G-042	UT-45S	09/20/1995	UT0341	PASS	Y				
II-MS-001	MS	II-MS-001MS-FW-256A	PLSW, P	C234-1		5-G-042	UT-45S	09/09/1995	UT0311	PASS	Y				
II-MS-001	MS	II-MS-001MS-FW-256B	PLSW, P	C106-1		5-G-042	UT-45S	09/09/1995	UT0311	PASS	Y				
II-MS-001	MS	II-MS-001MS-FW-257	PC, PIPE PC, PIPE	C106-1	C106-1	5-G-042	UT-45S	09/09/1995	UT0311	PASS	Y				
II-MS-001	MS	II-MS-001MS-FW-258	PC, PIPE PC, PIPE	C106-2	C106-2	5-G-042	UT-45S	09/10/1995	UT0311	PASS	Y				
II-MS-001	MS	II-MS-001MS-FW-258A	PLSW, P	C106-2		5-G-042	UT-45S	09/11/1995	UT0331	PASS	Y				

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Exam Requirement : B05-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : FSAR      FINAL SAFETY ANALYSIS REPORT - SECTION 6.6.8,  
 Item No. : 6.6.8C      AUGMENTED PIPING WELD VOLUMETRIC EXAMINATION PER FSAR

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam Type	Exam Date	Cal Standard	Exam Result	Credit		Relief Request	Indication Type	Indication Resolution
				A	B						XI	TS			
II-MS-001	MS	II-MS-001MS-FW-258A	PLSW, P	C106-2		5-G-042									
II-MS-001	MS	II-MS-001MS-FW-259	PC, PIPE PC, PIPE	C106-2	C106-2	5-G-042	UT-45S	09/11/1995	UT0331	PASS	Y		R2-003		
II-MS-001	MS	II-MS-001MS-FW-259A	PLSW, P	C106-2		5-G-042	UT-45S	09/11/1995	UT0331	PASS	Y				
II-MS-001	MS	II-MS-001MS-FW-260	PE, LR PC, PIPE	C234-1	C106-1	5-G-042	UT-45S	09/11/1995	UT0331	PASS	Y		R2-003		
II-MS-001	MS	II-MS-001MS-FW-260A	PLSW, P	C234-1		5-G-042	UT-45S	09/09/1995	UT0311	PASS	Y				
II-MS-001	MS	II-MS-001MS-FW-260B	PLSW, P	C106-1		5-G-042	UT-45S	09/09/1995	UT0311	PASS	Y				
II-MS-001	MS	II-MS-001MS-FW-261	PC, PIPE PC, PIPE	C106-1	C106-1	5-G-042	UT-45S	09/09/1995	UT0311	PASS	Y				
II-MS-001	MS	II-MS-001MS-FW-262	PC, PIPE PC, PIPE	C106-1	C106-1	5-G-042	UT-45S	09/10/1995	UT0311	PASS	Y				
II-MS-001	MS	II-MS-001MS-FW-263	PE, LR PC, PIPE	C234-1	C106-1	5-G-042	UT-45S	09/10/1995	UT0311	PASS	Y				
II-MS-001	MS	II-MS-001MS-FW-263A	PLSW, P	C234-1		5-G-042	UT-45S	09/09/1995	UT0311	PASS	Y				
II-MS-001	MS	II-MS-001MS-FW-263B	PLSW, P	C106-1		5-G-042	UT-45S	09/09/1995	UT0311	PASS	Y				
II-MS-001	MS	II-MS-001MS-FW-282	PC, VLV PC, PIPE	C216-2	C106-1	5-G-042	UT-45S	09/09/1995	UT0311	PASS	Y				

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Page: 70  
 Date: 12/22/1995  
 Revision: 20

Exam Requirement : B05-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : FSAR      FINAL SAFETY ANALYSIS REPORT - SECTION 6.6.8,  
 Item No. : 6.6.8C      AUGMENTED PIPING WELD VOLUMETRIC EXAMINATION PER FSAR

ISI Drawing	System	Component Number	Component		Material		Boundary Drawing	Exam		Cal Standard	Exam Result	Credit		Relief Request	Indication	
			Description		A	B		Type	Exam Date			XI	TS		Type	Resolution
II-MS-001	MS	II-MS-001MS-FW-282	PC, VLV	PC, PIPE	C216-2	C106-1	5-G-042									
II-MS-001	MS	II-MS-001MS-FW-287	PC, VLV	PC, PIPE	C216-2	C106-1	5-G-042	UT-45S	09/10/1995	UT0311	PASS	Y				
II-MS-001	MS	II-MS-001MS-FW-301	PC, PIPE	PC, PIPE	C106-5	C106-5	5-G-042	UT-45S	09/10/1995	UT0311	PASS	Y				
II-MS-001	MS	II-MS-001MS-FW-302	PC, PIPE	PC, VLV	C106-5	C216-1	5-G-042	UT-45S	09/18/1995	UT0411	PASS	Y				
II-MS-001	MS	II-MS-001MS-FW-302A	PLSW, P		C106-5		5-G-042	UT-45S	09/19/1995	UT0411	PASS	Y				
II-MS-001	MS	II-MS-001MS-FW-303	PC, VLV	PC, PIPE	C216-2	C106-1	5-G-042	UT-45S	09/19/1995	UT0411	PASS	Y				
II-MS-001	MS	II-MS-001MS-SW-C11	PC, PIPE	PC, NOZW	C106-2	C106-2	5-G-042	UT-45S	09/10/1995	UT0311	PASS	Y				
II-MS-001	MS	II-MS-001MS-SW-C12	PC, PIPE	PC, NOZW	C516-1	C106-2	5-G-042	UT-45S	09/12/1995	UT0411	PASS	Y		R2-003		
II-MS-001	MS	II-MS-001MS-SW-C13	PC, PIPE	PC, NOZW	C516-1	C106-2	5-G-042	UT-45S	09/12/1995	UT0411	PASS	Y				
II-MS-001	MS	II-MS-001MS-SW-C14	PC, PIPE	PC, NOZW	C516-1	C106-2	5-G-042	UT-45S	09/12/1995	UT0411	PASS	Y				
II-MS-001	MS	II-MS-001MS-SW-C15	PC, PIPE	PC, NOZW	C516-1	C106-2	5-G-042	UT-45S	09/12/1995	UT0411	PASS	Y				
II-MS-001	MS	II-MS-001MS-SW-C30	PBCC, EX	PC, PIPE	C516-1	C106-2	5-G-042	UT-45S	09/21/1995	UT0411	PASS	Y				

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Page: 71  
 Date: 12/22/1995  
 Revision: 20

Exam Requirement : B05-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : FSAR      FINAL SAFETY ANALYSIS REPORT - SECTION 6.6.8,  
 Item No. : 6.6.8C      AUGMENTED PIPING WELD VOLUMETRIC EXAMINATION PER FSAR

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam		Cal Standard	Exam Result	Credit		Relief Request	Indication Type	Indication Resolution
				A	B		Type	Exam Date			XI	TS			
II-MS-001	MS	II-MS-001MS-SW-C30	PBCC, EX PC, PIPE	C516-1	C106-2	5-G-042	UT-45S	09/21/1995	UT0221	PASS	Y			GEOMETRIC	REF ONLY, OK
II-MS-001	MS	II-MS-001MS-SW-C34	PBCC, EX PC, PIPE	C516-1	C106-2	5-G-042	UT-45S	09/22/1995	UT0181	PASS	Y				
II-MS-001	MS	II-MS-001MS-SW-C36	PC, PIPE PC, PIPE	C106-5	C106-5	5-G-042	UT-45S	09/21/1995	UT0411	PASS	Y			GEOMETRIC	REF ONLY, OK
II-MS-001	MS	II-MS-001MS-SW-C4	PBCC, EX PC, PIPE	C516-1	C106-2	5-G-042	UT-45S	09/22/1995	UT0251	PASS	Y			GEOMETRIC	REF ONLY, OK
II-MS-001	MS	II-MS-001MS-SW-C5	PC, PIPE PC, CAP	C106-2	C106-2	5-G-042	UT-45S	09/22/1995	UT0251	PASS	Y			GEOMETRIC	REF ONLY, OK
II-MS-001	MS	II-MS-001MS-SW-D1	PC, PIPE PE, LR	C106-1	C234-1	5-G-042	UT-45S	09/22/1995	UT0251	PASS	Y			GEOMETRIC	REF ONLY, OK
II-MS-001	MS	II-MS-001MS-SW-D1A	PLSW, P	C106-1		5-G-042	UT-45S	09/11/1995	UT0311	PASS	Y				
II-MS-001	MS	II-MS-001MS-SW-D1B	PLSW, P	C234-1		5-G-042	UT-45S	09/11/1995	UT0311	PASS	Y				
II-MS-001	MS	II-MS-001MS-SW-E1	PC, PIPE PC, PIPE	C106-1	C106-1	5-G-042	UT-45S	09/11/1995	UT0311	PASS	Y				
II-MS-001	MS	II-MS-001MS-SW-F1	PC, PIPE PE, LR	C106-1	C234-1	5-G-042	UT-45S	09/09/1995	UT0311	PASS	Y			GEOMETRIC	REF ONLY, OK
II-MS-001	MS	II-MS-001MS-SW-F1A	PLSW, P	C106-1		5-G-042	UT-45S	09/11/1995	UT0311	PASS	Y				
II-MS-001	MS	II-MS-001MS-SW-F1B	PLSW, P	C234-1		5-G-042	UT-45S	09/11/1995	UT0311	PASS	Y				

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Exam Requirement : B05-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : FSAR      FINAL SAFETY ANALYSIS REPORT - SECTION 6.6.8,  
 Item No. : 6.6.8C      AUGMENTED PIPING WELD VOLUMETRIC EXAMINATION PER FSAR

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam		Cal Standard	Exam Result	Credit XI TS	Relief Request	Indication	
				A	B		Type	Exam Date					Type	Resolution
II-MS-001	MS	II-MS-001MS-SW-F1B	PLSW,P	C234-1		5-G-042	UT-45S	09/11/1995	UT0311	PASS	Y			
II-MS-001	MS	II-MS-001MS-SW-G1	PC,PIPE PC,PIPE	C106-1	C106-1	5-G-042	UT-45S	09/09/1995	UT0311	PASS	Y		GEOMETRIC	REF ONLY, OK
II-MS-001	MS	II-MS-001MS-SW-G2	C,PIPE- C,PIPE	C106-1	C106-1	5-G-042	UT-45S	09/10/1995	UT0311	PASS	Y		GEOMETRIC	REF ONLY, OK
II-MS-001	MS	II-MS-001MS-SW-H1	PC,PIPE PE,LR	C106-1	C234-1	5-G-042	UT-45S	09/11/1995	UT0311	PASS	Y			
II-MS-001	MS	II-MS-001MS-SW-H1A	PLSW,P	C106-1		5-G-042	UT-45S	09/11/1995	UT0311	PASS	Y			
II-MS-001	MS	II-MS-001MS-SW-H1B	PLSW,P	C234-1		5-G-042	UT-45S	09/11/1995	UT0311	PASS	Y			
II-MS-001	MS	II-MS-001MS-SW-I1	PC,PIPE PC,PIPE	C106-1	C106-1	5-G-042	UT-45S	09/10/1995	UT0311	PASS	Y			
II-MS-001	MS	II-MS-001MS-SW-J1	PC,PIPE PC,CAP	C155-2	C155-2	5-G-042	UT-45S	09/21/1995	UT0351	PASS	Y			
II-MS-001	MS	II-MS-001MS-SW-J12	PC,PIPE PC,PIPE	C155-2	C155-2	5-G-042	UT-45S	09/20/1995	UT0341	PASS	Y			
II-MS-001	MS	II-MS-001MS-SW-J12A	PLSW,P	C155-2		5-G-042	UT-45S	09/20/1995	UT0341	PASS	Y			
II-MS-001	MS	II-MS-001MS-SW-J12B	PLSW,P	C155-2		5-G-042	UT-45S	09/20/1995	UT0341	PASS	Y			
II-MS-001	MS	II-MS-001MS-SW-J1A	PLSW,P	C155-2		5-G-042	UT-45S	09/20/1995	UT0341	PASS	Y			



Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Exam Requirement : B05-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : FSAR      FINAL SAFETY ANALYSIS REPORT - SECTION 6.6.8,  
 Item No. : 6.6.8C      AUGMENTED PIPING WELD VOLUMETRIC EXAMINATION PER FSAR

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam		Cal Standard	Exam Result	Credit		Relief Request	Indication Type	Indication Resolution
				A	B		Type	Exam Date			XI	TS			
II-MS-001	MS	II-MS-001MS-SW-J1A	PLSW, P	C155-2		5-G-042									
II-MS-001	MS	II-MS-001MS-SW-J2	PC, PIPE PC, CAP	C155-2	C155-2	5-G-042	UT-45S	09/20/1995	UT0341	PASS	Y				
II-MS-001	MS	II-MS-001MS-SW-J2A	PLSW, P	C155-2		5-G-042	UT-45S	09/21/1995	UT0351	PASS	Y				
II-MS-001	MS	II-MS-001MS-SW-K1	PC, PIPE PC, PIPE	C106-2	C106-2	5-G-042	UT-45S	09/20/1995	UT0351	PASS	Y				
II-MS-001	MS	II-MS-001MS-SW-K1A	PLSW, P	C106-2		5-G-042	UT-45S	09/19/1995	UT0331	PASS	Y				
II-MS-001	MS	II-MS-001MS-SW-K1B	PLSW, P	C106-2		5-G-042	UT-45S	09/19/1995	UT0331	PASS	Y				
II-MS-001	MS	II-MS-001MS-SW-M1	PC, PIPE PC, PIPE	C106-2	C106-2	5-G-042	UT-45S	09/19/1995	UT0331	PASS	Y				
II-MS-001	MS	II-MS-001MS-SW-M1A	PLSW, P	C106-2		5-G-042	UT-45S	09/19/1995	UT0331	PASS	Y				
II-MS-001	MS	II-MS-001MS-SW-M1B	PLSW, P	C106-2		5-G-042	UT-45S	09/19/1995	UT0331	PASS	Y				
II-MS-002	MS	II-MS-002MS-FW-680	PC, PIPE PE, LR	C106-2	C234-1	5-G-042	UT-45S	09/19/1995	UT0331	PASS	Y				
II-MS-002	MS	II-MS-002MS-FW-681	PC, PIPE PC, VLV	C106-2	C216-1	5-G-042	UT-45S	09/22/1995	UT0221	PASS	Y		GEOMETRIC	REF ONLY, OK	
II-MS-002	MS	II-MS-002MS-SW-E3	PE, LR PC, PIPE	C234-1	C106-2	5-G-042	UT-45S	09/22/1995	UT0221	PASS	Y				

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Page: 74  
 Date: 12/22/1995  
 Revision: 20

Exam Requirement : B05-01    Outage : 1-3-06  
 Interval : 1    Period : 3

Category : FSAR    FINAL SAFETY ANALYSIS REPORT - SECTION 6.6.8,  
 Item No. : 6.6.8C    AUGMENTED PIPING WELD VOLUMETRIC EXAMINATION PER FSAR

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam		Cal Standard	Exam Result	Credit XI TS	Relief Request	Indication Type	Indication Resolution
				A	B		Type	Exam Date						
II-MS-002	MS	II-MS-002MS-SW-E3	PE,LR PC,PIPE	C234-1	C106-2	5-G-042	UT-459	09/22/1995	UT0221	PASS	Y			

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Page: 70  
 Date: 12/22/1995  
 Revision: 20

Exam Requirement : B06-01 Outage : 1-3-06  
 Interval : 1 Period : 3

Category : FSAR FINAL SAFETY ANALYSIS REPORT - SECTION 6.6.B,  
 Item No. : 6.6.8D AUGMENTED PIPING WELD SURFACE EXAMINATION PER FSAR

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam Type	Exam Date	Cal Standard	Exam Result	Credit XI	Relief Request	Indication Type	Indication Resolution
				A	B									
II-MS-001	MS	II-MS-001MS-SW-C19	PC, PIPE PBC, SWP	CS15-1	C105-1	5-G-042	MT	09/10/1995		PASS	Y			
II-MS-001	MS	II-MS-001MS-SW-C6	PBC, SWP PC, PIPE	C105-1	C106-1	5-G-042	MT	09/10/1995		PASS	Y			
II-MS-009	MS	II-MS-009MS-45-1-SW-1	PE, LR PC, PIPE	C234-1	C106-1	5-G-042	MT	09/21/1995		PASS	Y			
II-MS-009	MS	II-MS-009MS-45-1-SW-2	PC, PIPE PE, LR	C106-1	C234-1	5-G-042	MT	09/21/1995		PASS	Y			
II-MS-009	MS	II-MS-009MS-45-1-SW-3	PE, LR PC, PIPE	C234-1	C106-1	5-G-042	MT	09/21/1995		PASS	Y			
II-MS-009	MS	II-MS-009MS-FW-588	PC, PIPE PE, LR	C106-1	C234-1	5-G-042	MT	09/21/1995		PASS	Y			
II-MS-009	MS	II-MS-009MS-FW-589	PC, PIPE PC, VLV	C106-1	C234-1	5-G-042	MT	09/21/1995		PASS	Y			R2-003

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Exam Requirement : B07-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : FSAR      FINAL SAFETY ANALYSIS REPORT - SECTION 6.6.8  
 Item No. : 6.6.8E      AUGMENTED PIPING WELD SURFACE EXAMINATION PER FSAR

ISI Drawing	System	Component Number	Component		Material		Boundary Drawing	Exam Type	Exam Date	Cal Standard	Exam Result	Credit		Relief Request	Indication Type	Indication Resolution
			Description		A	B						XI	TS			
II-BD-002	BD	II-BD-002BD-FW-4	PP, FHS	PC, PB	C106-1	C106-1	5-G-051				PASS	Y				
II-BD-002	BD	II-BD-002BD-FW-5	PC, PB	PC, VLV	C106-1	C216-1	5-G-051	MT	09/26/1995		PASS	Y				
II-BD-003	BD	II-BD-003BD-46-1-SW-1	PC, PIPE	PC, PIPE	C106-1	C106-1	5-G-051	MT	09/26/1995		PASS	Y				
II-BD-003	BD	II-BD-003BD-FW-7	PP, FHS	PC, PB	C106-1	C106-1	5-G-051	MT	09/20/1995		PASS	Y				
II-BD-003	BD	II-BD-003BD-FW-8	PC, PB	PC, VLV	C106-1	C216-1	5-G-051	MT	09/20/1995		PASS	Y				
II-BD-003	BD	II-BD-003BD-SW-AR	PC, PB	PC, PB	C106-1	C106-1	5-G-051	MT	09/20/1995		PASS	Y				
II-CS-026	CS	II-CS-026CS-FW-112	PC, PIP	PI, FHB	H376-1	H376-1	5-G-803	MT	09/20/1995		PASS	Y				
II-CS-027	CS	II-CS-027CS-FW-1421	PC, PIPE	PI, FHB	H376-1	H376-1	5-G-803	PT	09/22/1995		PASS	Y				
II-CS-033	CS	II-CS-033CS-FW-1438	PC, PIPE	PI, FHB	H376-1	H376-1	5-G-803	PT	09/22/1995		PASS	Y				
II-CS-089	CS	II-CS-089CS-FW-1986	PSW, VLV	PC, PIPE	H351-3	H312-1	5-G-803	PT	08/31/1995		PASS	Y				
II-CS-089	CS	II-CS-089CS-FW-1987	PC, PIPE	PE, RED	H312-1	H403-1	5-G-803	PT	09/25/1995		PASS	Y				
II-CS-089	CS	II-CS-089CS-FW-1992	PSW, VLV	PC, PIPE	H351-3	H312-1	5-G-803	PT	09/25/1995		PASS	Y				

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Exam Requirement : B07-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : FSAR      FINAL SAFETY ANALYSIS REPORT - SECTION 6.6.8  
 Item No. : 6.6.8E      AUGMENTED PIPING WELD SURFACE EXAMINATION PER FSAR

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam Type	Exam Date	Cal Standard	Exam Result	Credit		Relief Request	Indication Type	Indication Resolution
				A	B						XI	YS			
II-CS-089	CS	II-CS-089CS-FW-1992	PSW,VLV PC,PIPE	H351-3	H312-1	5-G-803									
II-CS-089	CS	II-CS-089CS-FW-1993	PC,PIPE PBC,S	H312-1	H182-1	5-G-803	PT	09/25/1995		PASS	Y				
II-CS-089	CS	II-CS-089CS-SW-B3	PE,RED PC,PIPE	H403-1	H312-1	5-G-803	PT	09/25/1995		PASS	Y				
II-CS-089	CS	II-CS-089CS-SW-B4	PC,PIPE PBCC,T	H312-1	H403-1	5-G-803	PT	09/25/1995		PASS	Y				
II-CS-089	CS	II-CS-089CS-SW-B5	PC,PIPE PBCC,T	H312-1	H403-1	5-G-803	PT	09/25/1995		PASS	Y				
II-CS-089	CS	II-CS-089CS-SW-B6	PE,RED PC,PIPE	H403-1	H312-1	5-G-803	PT	09/25/1995		PASS	Y				
II-CS-089	CS	II-CS-089CS-SW-B7	PBCC,T PC,PIPE	H403-1	H312-1	5-G-803	PT	09/25/1995		PASS	Y				
II-CS-089	CS	II-CS-089CS-SW-B8	PC,PIPE PBC,S	H312-1	H182-1	5-G-803	PT	09/25/1995		PASS	Y				

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Page: 78  
 Date: 12/22/1995  
 Revision: 20

Exam Requirement : PG4-01    Outage : 1-3-06  
 Interval : 1    Period : 3

Category : FSAR    FINAL SAFETY ANALYSIS REPORT - SECTION 6.6.8,  
 Item No. : 6.6.8B    AUGMENTED PIPING WELD VOLUMETRIC EXAMINATION PER FSAR

<u>ISI Drawing</u>	<u>System</u>	<u>Component Number</u>	<u>Component Description</u>	<u>Material</u>		<u>Boundary Drawing</u>	<u>Exam Type</u>	<u>Exam Date</u>	<u>Cal Standard</u>	<u>Exam Result</u>	<u>Credit</u>		<u>Relief Request</u>	<u>Indication Type</u>	<u>Indication Resolution</u>
				<u>A</u>	<u>B</u>						<u>XI</u>	<u>TS</u>			
II-AF-006	AF	II-AF-006AF-SW-B6	PC, PIPE PBCC, T	C106-1	C234-1	5-G-044	UT-45S	09/26/1995	UT0162	PASS			Y		

Carolina Power & Light Company  
 Harris Nuclear Power Plant  
 Post Outage Examination Results Report  
 Heading Line 1  
 Heading Line 2  
 Welds

Exam Requirement : S01-01    Outage : 1-3-06  
 Interval : 1    Period : 3

Category : B-J    SUCCESSIVE EXAMINATION CATEGORY B-J INTERVAL 1  
 Item No. : B9.11    CIRCUMFERENTIAL PIPING WELD, NOMINAL PIPE SIZE >= 4 IN.

ISI Drawing	System	Component Number	Component Description	Material		Boundary Drawing	Exam Type	Exam Date	Cal Standard	Exam Result	Credit XI TS	Relief Request	Indication Type	Indication Resolution
				A	B									
II-FMR-02	RC	II-FMR-02RC-10-18-FW-7	PE,LR PC,PIPE	H351-1	H376-1	5-G-800								
							JT-45L	09/18/1995	UT0081	PASS	Y		GEOMETRIC	REF ONLY, OK
							PT	09/18/1995		PASS	Y		MIDWALL REF.	REF ONLY, OK
													MECHANICAL	REF ONLY, OK

Number of records printed : 641

**SECTION 4**

**COMPONENT SUPPORTS**



Carolina Power & Light Company  
 Shearon Harris Nuclear Power Plant  
 Post Outage Examination Results Report

Page: 1  
 Date: 01/05/1996  
 Revision:

## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : D-A      SYSTEMS IN SUPPORT OF REACTOR SHUTDOWN FUNCTION  
 Item No. : D1.20

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
1A-286-MS-07	MS	HANGER	MS-H-01721(8)	5-G-042							
				VT-3	09/13/1995	PASS	Y				

## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
Interval : 1      Period : 3

Category : D-B	ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
Item No. : D2.20	ECCS, ETC. INTEGRAL ATTACHMENTS - SUPPORTS AND RESTRAINTS

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
1A-216-SW-04	SW	HANGER SW-H-04191(2)	5-G-133	VT-3	03/09/1995	PASS	Y			
1A-216-SW-04	SW	HANGER SW-H-21771(2)	5-G-047	VT-3	03/09/1995	PASS	Y			
1A-236-CC-14	CC	HANGER CC-H-09111(4)	5-G-819	VT-3	06/15/1995	PASS	Y			
1A-236-CC-14	CC	HANGER CC-H-09131(2)	5-G-819	VT-3	06/15/1995	PASS	Y			
1A-236-CC-16	CC	HANGER CC-H-05361(4)	5-G-822	VT-3	05/10/1995	PASS	Y			
1A-236-CC-16	CC	HANGER CC-H-05411(4)	5-G-822	VT-3	05/10/1995	PASS	Y			
1A-236-CC-16	CC	HANGER CC-H-05461(4)	5-G-822	VT-3	05/10/1995	PASS	Y			
1A-236-CC-19	CC	HANGER CC-H-07941(4)	5-G-822	VT-3	05/10/1995	PASS	Y			
1A-236-SW-04	SW	HANGER SW-H-13431(2)	5-G-047	VT-3	02/21/1995	PASS	Y			
1A-236-SW-12	SW	HANGER SW-H-12581(2)	5-G-047	VT-3	02/21/1995	PASS	Y			
1A-236-SW-15	SW	HANGER SW-H-05151(2)	5-G-047	VT-3	02/21/1995	PASS	Y			
1A-236-SW-28	SW	HANGER SW-H-15021(3)	5-G-047	VT-3	02/21/1995	PASS	Y			

## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : D-B	ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
Item No. : D2.20	ECCS, ETC. INTEGRAL ATTACHMENTS - SUPPORTS AND RESTRAINTS

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
1A-236-SW-28	SW	HANGER SW-H-1502I(3)	5-G-047	VT-3	03/02/1995	PASS	Y			
1A-261-SW-01	SW	HANGER SW-H-2123I(2)	5-G-047	VT-3	02/22/1995	PASS	Y			
1A-261-SW-01	SW	HANGER SW-H-2131I(2)	8-G-498	VT-3	02/22/1995	PASS	Y			
1A-261-SW-01	SW	HANGER SW-H-2132I(2)	8-G-498	VT-3	02/22/1995	PASS	Y			
1A-261-SW-02	SW	HANGER SW-H-2144I(2)	8-G-498	VT-3	02/24/1995	PASS	Y			
1A-261-SW-03	SW	HANGER SW-H-2107I(2)	8-G-499	VT-3	03/02/1995	PASS	Y			
1D-261-EA-05	EA	HANGER EA-H-0186I(2)	5-G-133	VT-3	03/09/1995	PASS	Y			
1F-236-CC-01	CC	HANGER CC-H-1351I(8)	5-G-822	VT-3	05/16/1995	PASS	Y			
1T-236-SW-01	SW	HANGER SW-H-2080I(2)	5-G-047	VT-3	02/17/1995	PASS	Y			

Carolina Power & Light Company  
 Shearon Harris Nuclear Power Plant  
 Post Outage Examination Results Report

Page: 4  
 Date: 01/05/1996  
 Revision:

## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : D-B	ECCS, CHR, ACU, AND RHR SUPPORT SYSTEMS
Item No. : D2.30	ECCS, ETC. INTEGRAL ATTACHMENTS - SNUBBERS

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
1A-236-CC-06	CC	HANGER CC-H-00931(2)	5-G-819	VT-3	06/14/1995	PASS	Y			
1A-236-CC-11	CC	HANGER CC-H-08821(2)	5-G-819	VT-3	06/14/1995	PASS	Y			





Carolina Power & Light Company  
 Shearon Harris Nuclear Power Plant  
 Post Outage Examination Results Report

Page: 7  
 Date: 01/05/1996  
 Revision:

## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-B      LINEAR TYPE SUPPORTS
Item No. : F2.40      DISPLACEMENT SETTINGS, MISALIGNMENT, AND ASSEMBLY OF SUPPORT

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
1A-216-SW-30	SW	HANGER SW-H-0552	5-G-047	VT-3	03/09/1995	PASS	Y			
1A-216-SW-30	SW	HANGER SW-H-0554	5-G-047	VT-3	03/09/1995	PASS	Y			
1A-216-SW-30	SW	HANGER SW-H-0556	5-G-047	VT-3	03/09/1995	PASS	Y			
1A-236-CC-04	CC	HANGER CC-H-0394	5-G-820	VT-3	03/08/1995	PASS	Y			
1A-236-CC-09	CC	HANGER CC-H-0469	5-G-819	VT-3	06/14/1995	PASS	Y			
1A-236-CC-09	CC	HANGER CC-H-0471	5-G-819	VT-3	06/14/1995	PASS	Y			
1A-236-CC-10	CC	HANGER CC-H-0313	5-G-822	VT-3	02/24/1995	PASS	Y			
1A-236-CC-10	CC	HANGER CC-H-0314	5-G-8221	VT-3	02/24/1995	PASS	Y			
1A-236-CC-10	CC	HANGER CC-H-0316	5-G-822	VT-3	02/24/1995	PASS	Y			
1A-236-CC-10	CC	HANGER CC-H-0320	5-G-822	VT-3	02/24/1995	PASS	Y			
1A-236-CC-10	CC	HANGER CC-H-0324	5-G-819	VT-3	02/24/1995	PASS	Y			
1A-236-CC-10	CC	HANGER CC-H-0325	5-G-819	VT-3	02/24/1995	PASS	Y			

Carolina Power & Light Company  
 Shearon Harris Nuclear Power Plant  
 Post Outage Examination Results Report

Page: 8  
 Date: 01/05/1996  
 Revision:

## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-6	LINEAR TYPE SUPPORTS
Item No. : F2.40	DISPLACEMENT SETTINGS, MISALIGNMENT, AND ASSEMBLY OF SUPPORT

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
1A-236-CC-10	CC	HANGER CC-H-0325	5-G-819	VT-3	02/24/1995	PASS	Y				
1A-236-CC-10	CC	HANGER CC-H-0326	5-G-819	VT-3	02/24/1995	PASS	Y				
1A-236-CC-10	CC	HANGER CC-H-0327	5-G-819	VT-3	02/24/1995	PASS	Y				
1A-236-CC-10	CC	HANGER CC-H-0328	5-G-819	VT-3	05/12/1995	PASS	Y				
1A-236-CC-10	CC	HANGER CC-H-0336	5-G-822	VT-3	05/12/1995	PASS	Y				
1A-236-CC-10	CC	HANGER CC-H-1808	5-G-8221	VT-3	05/12/1995	PASS	Y				
1A-236-CC-10	CC	HANGER CC-H-1810	5-G-8221	VT-3	05/12/1995	PASS	Y				
1A-236-CC-12	CC	HANGER CC-H-0497	5-G-819	VT-3	03/08/1995	PASS	Y				
1A-236-CC-12	CC	HANGER CC-H-0510	5-G-819	VT-3	03/08/1995	PASS	Y				
1A-236-CC-12	CC	HANGER CC-H-1953	5-G-819	VT-3	06/14/1995	PASS	Y				
1A-236-CC-13	CC	HANGER CC-H-0887	5-G-819	VT-3	06/13/1995	PASS	Y				
1A-236-CC-13	CC	HANGER CC-H-0893	5-G-819	VT-3	06/13/1995	PASS	Y				



Carolina Power & Light Company  
 Shearon Harris Nuclear Power Plant  
 Post Outage Examination Results Report

Page: 9  
 Date: 01/05/1996  
 Revision:

## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-B      LINEAR TYPE SUPPORTS  
 Item No. : F2.40      DISPLACEMENT SETTINGS, MISALIGNMENT, AND ASSEMBLY OF SUPPORT

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
1A-236-CC-13	CC	HANGER CC-H-0893	5-G-819	VT-3	06/14/1995	PASS	Y				
1A-236-CC-13	CC	HANGER CC-H-0894	5-G-819	VT-3	06/15/1995	PASS	Y				
1A-236-CC-13	CC	HANGER CC-H-0896	5-G-819	VT-3	06/14/1995	PASS	Y				
1A-236-CC-13	CC	HANGER CC-H-1964	5-G-819	VT-3	06/15/1995	PASS	Y				
1A-236-CC-14	CC	HANGER CC-H-0911	5-G-819	VT-3	06/15/1995	PASS	Y				
1A-236-CC-14	CC	HANGER CC-H-0913	5-G-819	VT-3	06/15/1995	PASS	Y				
1A-236-CC-14	CC	HANGER CC-H-0915	5-G-819	VT-3	06/14/1995	PASS	Y				
1A-236-CC-15	CC	HANGER CC-H-0526	5-G-822	VT-3	05/10/1995	PASS	Y				
1A-236-CC-15	CC	HANGER CC-H-0527	5-G-822	VT-3	05/10/1995	PASS	Y				
1A-236-CC-16	CC	HANGER CC-H-0536	5-G-822	VT-3	05/10/1995	PASS	Y				
1A-236-CC-16	CC	HANGER CC-H-0539	5-G-822	VT-3	05/10/1995	PASS	Y				
1A-236-CC-16	CC	HANGER CC-H-0541	5-G-822	VT-3	05/10/1995	PASS	Y				

Hangers

Exam Requirement : 83S-0:      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-B      LINEAR TYPE SUPPORTS  
 Item No. : F2.40      DISPLACEMENT SETTINGS, MISALIGNMENT, AND ASSEMBLY OF SUPPORT

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
1A-236-CC-16	CC	HANGER CC-H-0541	5-G-822	VT-3	05/10/1995	PASS	Y			
1A-236-CC-16	CC	HANGER CC-H-0544	5-G-822	VT-3	05/10/1995	PASS	Y			
1A-236-CC-16	CC	HANGER CC-H-0545	5-G-822	VT-3	05/10/1995	PASS	Y		BRNG DISPLAC	WR&A
1A-236-CC-16	CC	HANGER CC-H-0546	5-G-822	VT-3	05/10/1995	PASS	Y			
1A-236-CC-18	CC	HANGER CC-H-0784	5-G-822	VT-3	05/10/1995	PASS	Y			
1A-236-CC-18	CC	HANGER CC-H-0785	5-G-822	VT-3	05/10/1995	PASS	Y			
1A-236-CC-19	CC	HANGER CC-H-0787	5-G-822	VT-3	05/10/1995	PASS	Y			
1A-236-CC-19	CC	HANGER CC-H-0788	5-G-822	VT-3	05/10/1995	PASS	Y			
1A-236-CC-19	CC	HANGER CC-H-0794	5-G-822	VT-3	05/10/1995	PASS	Y			
1A-236-CC-19	CC	HANGER CC-H-0796	5-G-822	VT-3	05/10/1995	PASS	Y			
1A-236-CC-19	CC	HANGER CC-H-0797	5-G-822	VT-3	05/10/1995	PASS	Y			
1A-236-CC-19	CC	HANGER CC-H-0798	5-G-822	VT-3	05/10/1995	PASS	Y			

Carolina Power & Light Company  
 Shearon Harris Nuclear Power Plant  
 Post Outage Examination Results Report

Page: 11  
 Date: 01/05/1996  
 Revision:

## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-B	LINEAR TYPE SUPPORTS
Item No. : F2.40	DISPLACEMENT SETTINGS, MISALIGNMENT, AND ASSEMBLY OF SUPPORT

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
1A-236-CC-19	CC	HANGER CC-H-0798	5-G-822	VT-3	05/10/1995	PASS	Y				
1A-236-CC-19	CC	HANGER CC-H-1556	5-G-822	VT-3	05/10/1995	PASS	Y				
1A-236-CC-19	CC	HANGER CC-H-1974	5-G-822	VT-3	05/10/1995	PASS	Y				
1A-236-CC-19	CC	HANGER CC-H-1976	5-G-822	VT-3	05/10/1995	PASS	Y				
1A-236-CC-70	CC	HANGER CC-H-1809	5-G-8221	VT-3	05/12/1995	PASS	Y				
1A-236-SW-04	SW	HANGER SW-H-1343	5-G-047	VT-3	02/21/1995	PASS	Y				
1A-236-SW-04	SW	HANGER SW-H-1651	5-G-047	VT-3	02/21/1995	PASS	Y				
1A-236-SW-08	SW	HANGER SW-H-1396	5-G-047	VT-3	02/21/1995	PASS	Y				
1A-236-SW-08	SW	HANGER SW-H-1400	5-G-047	VT-3	02/21/1995	PASS	Y				
1A-236-SW-12	SW	HANGER SW-H-1256	5-G-047	VT-3	02/21/1995	PASS	Y				
1A-236-SW-12	SW	HANGER SW-H-1257	5-G-047	VT-3	02/21/1995	PASS	Y				
1A-236-SW-12	SW	HANGER SW-H-1258	5-G-047	VT-3	02/21/1995	PASS	Y				

Carolina Power & Light Company  
 Shearon Harris Nuclear Power Plant  
 Post Outage Examination Results Report

Page: 12  
 Date: 01/05/1996  
 Revision:

## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-B	LINEAR TYPE SUPPORTS
Item No. : F2.40	DISPLACEMENT SETTINGS, MISALIGNMENT, AND ASSEMBLY OF SUPPORT

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
1A-236-SW-12	SW	HANGER SW-H-1258	5-G-047	VT-3	02/21/1995	PASS	Y				
1A-236-SW-14	SW	HANGER SW-H-0510	5-G-047	VT-3	02/21/1995	PASS	Y				
1A-236-SW-14	SW	HANGER SW-H-2339	5-G-047	VT-3	02/22/1995	PASS	Y			BRNG DISPLAC WR&A	
1A-236-SW-15	SW	HANGER SW-H-0514	5-G-047	VT-3	02/21/1995	PASS	Y				
1A-236-SW-15	SW	HANGER SW-H-0515	5-G-047	VT-3	02/21/1995	PASS	Y				
1A-236-SW-23	SW	HANGER SW-H-1262	5-G-047	VT-3	02/21/1995	PASS	Y				
1A-236-SW-23	SW	HANGER SW-H-1263	5-G-XXX	VT-3	02/21/1995	PASS	Y				
1A-236-SW-28	SW	HANGER SW-H-1502	5-G-047	VT-3	03/02/1995	PASS	Y				
1A-261-AF-03	AF	HANGER AF-H-0007	5-G-071	VT-3	09/09/1995	PASS	Y				
1A-261-AF-03	AF	HANGER AF-H-0008	5-G-074	VT-3	09/09/1995	PASS	Y				
1A-261-AF-03	AF	HANGER AF-H-0014	5-G-071	VT-3	09/09/1995	PASS	Y				
1A-261-AF-03	AF	HANGER AF-H-0016	5-G-071	VT-3	09/09/1995	PASS	Y				

## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-B      LINEAR TYPE SUPPORTS  
 Item No. : F2.40      DISPLACEMENT SETTINGS, MISALIGNMENT, AND ASSEMBLY OF SUPPORT

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
1A-261-AF-03	AF	HANGER AF-H-0016	5-G-071	VT-3	09/09/1995	PASS	Y				
1A-261-AF-03	AF	HANGER AF-H-0018	5-G-074	VT-3	09/09/1995	PASS	Y				
1A-261-AF-03	AF	HANGER AF-H-0025	5-G-071	VT-3	09/09/1995	PASS	Y				
1A-261-AF-04	AF	HANGER AF-H-0044	5-G-071	VT-3	09/09/1995	PASS	Y				
1A-261-AF-04	AF	HANGER AF-H-0046	5-G-071	VT-3	09/09/1995	PASS	Y				
1A-261-AF-04	AF	HANGER AF-H-0048	5-G-074	VT-3	09/09/1995	PASS	Y				
1A-261-AF-04	AF	HANGER AF-H-0049	5-G-074	VT-3	09/09/1995	PASS	Y				
1A-261-AF-04	AF	HANGER AF-H-0053	5-G-071	VT-3	09/09/1995	PASS	Y				
1A-261-AF-05	AF	HANGER AF-H-0058	5-G-071	VT-3	09/09/1995	PASS	Y				
1A-261-AF-05	AF	HANGER AF-H-0063	5-G-071	VT-3	09/09/1995	PASS	Y				
1A-261-AF-05	AF	HANGER AF-H-0065	5-G-074	VT-3	09/09/1995	PASS	Y				
1A-261-AF-05	AF	HANGER AF-H-0072	5-G-074	VT-3	09/09/1995	PASS	Y				

Carolina Power & Light Company  
 Shearon Harris Nuclear Power Plant  
 Post Outage Examination Results Report

Page: 14  
 Date: 01/05/1996  
 Revision:

## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-B      LINEAR TYPE SUPPORTS  
 Item No. : F2.40      DISPLACEMENT SETTINGS, MISALIGNMENT, AND ASSEMBLY OF SUPPORT

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
1A-261-AF-05	AF	HANGER AF-H-0072	5-G-074	VT-3	09/09/1995	PASS	Y			
1A-261-AF-05	AF	HANGER AF-H-0074	5-G-071	VT-3	09/09/1995	PASS	Y			
1A-261-AF-05	AF	HANGER AF-H-0076	5-G-074	VT-3	09/09/1995	PASS	Y			
1A-261-AF-05	AF	HANGER AF-H-0077	5-G-074	VT-3	09/09/1995	PASS	Y			
1A-261-AF-05	AF	HANGER AF-H-0078	5-G-074	VT-3	09/09/1995	PASS	Y			
1A-261-AF-05	AF	HANGER AF-H-0079	5-G-074	VT-3	09/09/1995	PASS	Y			
1A-261-AF-05	AF	HANGER AF-H-0081	5-G-071	VT-3	09/09/1995	PASS	Y			
1A-261-CH-07	CH	HANGER CH-H-1581		VT-3	03/21/1995	PASS	Y			
1A-261-CX-10	CX	HANGER CX-H-1725	8-G-498	VT-3	03/21/1995	PASS	Y			
1A-261-CX-10	CX	HANGER CX-H-1726	8-G-498	VT-3	03/21/1995	PASS	Y			
1A-261-CX-10	CX	HANGER CX-H-1741	8-G-498	VT-3	03/21/1995	PASS	Y			
1A-261-SW-01	SW	HANGER SW-H-2119	5-G-047							

Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-B      LINEAR TYPE SUPPORTS  
 Item No. : F2.40      DISPLACEMENT SETTINGS, MISALIGNMENT, AND ASSEMBLY OF SUPPORT

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
1A-261-SW-01	SW	HANGER SW-H-2119	5-G-047	VT-3	02/22/1995	PASS	Y			BRNG DISPLAC	WR&A
1A-261-SW-01	SW	HANGER SW-H-2120	5-G-047	VT-3	02/22/1995	PASS	Y				
1A-261-SW-01	SW	HANGER SW-H-2121	5-G-047	VT-3	02/22/1995	PASS	Y			BRNG DISPLAC	WR&A
1A-261-SW-01	SW	HANGER SW-H-2122	5-G-047	VT-3	02/22/1995	PASS	Y				
1A-261-SW-01	SW	HANGER SW-H-2123	5-G-047	VT-3	02/22/1995	PASS	Y				
1A-261-SW-01	SW	HANGER SW-H-2124	5-G-047	VT-3	02/22/1995	PASS	Y				
1A-261-SW-01	SW	HANGER SW-H-2129	5-G-047	VT-3	02/22/1995	PASS	Y				
1A-261-SW-01	SW	HANGER SW-H-2131	5-G-047	VT-3	02/22/1995	PASS	Y				
1A-261-SW-01	SW	HANGER SW-H-2132	5-G-047	VT-3	02/22/1995	PASS	Y				
1A-261-SW-01	SW	HANGER SW-H-2135	8-G-498	VT-3	02/22/1995	PASS	Y				
1A-261-SW-01	SW	HANGER SW-H-2136	8-G-498	VT-3	03/21/1995	PASS	Y				
1A-261-SW-01	SW	HANGER SW-H-2137	5-G-047	VT-3	03/21/1995	PASS	Y				

Carolina Power & Light Company  
 Shearon Harris Nuclear Power Plant  
 Post Outage Examination Results Report

Page: 16  
 Date: 01/05/1996  
 Revision:

## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-B	LINEAR TYPE SUPPORTS
Item No. : F2.40	DISPLACEMENT SETTINGS, MISALIGNMENT, AND ASSEMBLY OF SUPPORT

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
1A-261-SW-01	SW	HANGER SW-H-2137	5-G-047	VT-3	02/22/1995	PASS	Y				
1A-261-SW-02	SW	HANGER SW-H-2142	8-G-4982	VT-3	02/22/1995	PASS	Y				
1A-261-SW-02	SW	HANGER SW-H-2143	5-G-047	VT-3	02/22/1995	PASS	Y				
1A-261-SW-02	SW	HANGER SW-H-2144	5-G-047	VT-3	02/24/1995	PASS	Y				
1A-261-SW-03	SW	HANGER SW-H-2097	5-G-047	VT-3	03/02/1995	PASS	Y				
1A-261-SW-03	SW	HANGER SW-H-2101	5-G-047	VT-3	03/02/1995	PASS	Y				
1A-261-SW-03	SW	HANGER SW-H-2102	5-G-047	VT-3	03/02/1995	PASS	Y				
1A-261-SW-03	SW	HANGER SW-H-2104	5-G-047	VT-3	03/02/1995	PASS	Y				
1A-261-SW-03	SW	HANGER SW-H-2105	5-G-047	VT-3	03/08/1995	PASS	Y				
1A-261-SW-03	SW	HANGER SW-H-2107	8-G-499	VT-3	03/02/1995	PASS	Y				
1A-261-SW-03	SW	HANGER SW-H-2108	8-G-499	VT-3	03/02/1995	PASS	Y				
1A-261-SW-03	SW	HANGER SW-H-2109	8-G-499	VT-3	03/02/1995	PASS	Y				



Carolina Power & Light Company  
 Shearon Harris Nuclear Power Plant  
 Post Outage Examination Results Report

Page: 17  
 Date: 01/05/1996  
 Revision:

## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-B      LINEAR TYPE SUPPORTS  
 Item No. : F2.40      DISPLACEMENT SETTINGS, MISALIGNMENT, AND ASSEMBLY OF SUPPORT

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
1A-261-SW-03	SW	HANGER SW-H-2109	8-G-499	VT-3	03/02/1995	PASS	Y				
1A-261-SW-03	SW	HANGER SW-H-2113	8-G-499	VT-3	03/02/1995	PASS	Y				
1A-261-SW-03	SW	HANGER SW-H-2115	8-G-499	VT-3	03/02/1995	PASS	Y				
1A-261-SW-04	SW	HANGER SW-H-2354	8-G-499	VT-3	03/02/1995	PASS	Y				
1A-286-MS-01	MS	HANGER MS-H-0051	5-G-042	VT-3	09/10/1995	PASS	Y				
1A-286-MS-01	MS	HANGER MS-H-0069	5-G-042	VT-3	09/10/1995	PASS	Y				
1A-286-MS-07	MS	HANGER MS-H-0172	5-G-042	VT-3	09/13/1995	PASS	Y				
1C-236-SI-06	SI	HANGER SI-H-0150	5-G-810	VT-3	09/19/1995	PASS	Y				
1C-236-SI-06	SI	HANGER SI-H-0155	5-G-810	VT-3	09/16/1995	PASS	Y				
1C-236-SI-06	SI	HANGER SI-H-1031	5-G-810	VT-3	09/16/1995	PASS	Y				
1C-236-SI-06	SI	HANGER SI-H-1197	5-G-810	VT-3	09/16/1995	PASS	Y				
1C-236-SI-06	SI	HANGER SI-H-1200	5-G-810	VT-3	09/16/1995	PASS	Y				

Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-B      LINEAR TYPE SUPPORTS  
 Item No. : F2.40      DISPLACEMENT SETTINGS, MISALIGNMENT, AND ASSEMBLY OF SUPPORT

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
1C-236-SI-06	SI	HANGER	SI-H-1200	5-G-810	VT-3	09/16/1995	PASS	Y			
1C-FW-MS-RC-01	FW	HANGER	FW-H-0102	5-G-044	VT-3	09/11/1995	PASS	Y		BRNG DISPLAC WR&A	
1C-FW-MS-RC-01	FW	HANGER	FW-H-0104	5-G-044	VT-3	09/11/1995	PASS	Y			
1C-FW-MS-RC-01	FW	HANGER	FW-H-0107	5-G-044	VT-3	09/11/1995	PASS	Y			
1C-FW-MS-RC-01	FW	HANGER	FW-H-0109	5-G-044	VT-3	09/11/1995	PASS	Y			
1D-261-FA-05	EA	HANGER	EA-H-0186	5-G-133	VT-3	03/09/1995	PASS	Y			
1F-236-CC-01	CC	HANGER	CC-H-1345	5-G-822	VT-3	05/12/1995	PASS	Y			
1F-236-CC-01	CC	HANGER	CC-H-1346	5-G-822	VT-3	05/16/1995	PASS	Y			
1F-236-CC-01	CC	HANGER	CC-H-1351	5-G-8221	VT-3	05/16/1995	PASS	Y			
1F-236-CC-02	CC	HANGER	CC-H-1333	5-G-822	VT-3	05/16/1995	PASS	Y			
1F-236-CC-02	CC	HANGER	CC-H-1759	5-G-822	VT-3	05/16/1995	PASS	Y			
1F-236-SF-07	SF	HANGER	SF-H-0468	5-G-305	VT-3	05/16/1995	PASS	Y			

Carolina Power & Light Company  
 Shearon Harris Nuclear Power Plant  
 Post Outage Examination Results Report

Page: 19  
 Date: 01/05/1996  
 Revision:

## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-B	LINEAR TYPE SUPPORTS
Item No. : F2.40	DISPLACEMENT SETTINGS, MISALIGNMENT, AND ASSEMBLY OF SUPPORT

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
1F-236-SF-07	SF	HANGER SF-H-0468	5-G-305	VT-3	02/22/1995	PASS	Y				
1F-236-SF-07	SF	HANGER SF-H-0473	5-G-305	VT-3	02/22/1995	PASS	Y				
1F-236-SF-07	SF	HANGER SF-H-0474	5-G-305	VT-3	02/22/1995	PASS	Y				
1F-236-SF-07	SF	HANGER SF-H-0479	5-G-305	VT-3	02/22/1995	PASS	Y				
1T-236-SW-01	SW	HANGER SW-H-0265	5-G-047	VT-3	02/17/1995	PASS	Y				
1T-236-SW-01	SW	HANGER SW-H-0266	5-G-047	VT-3	02/17/1995	PASS	Y				
1T-236-SW-01	SW	HANGER SW-H-0267	5-G-047	VT-3	02/17/1995	PASS	Y				
1T-236-SW-01	SW	HANGER SW-H-0268	5-G-047	VT-3	02/17/1995	PASS	Y				
1T-236-SW-01	SW	HANGER SW-H-0269	5-G-047	VT-3	02/17/1995	PASS	Y				
1T-236-SW-01	SW	HANGER SW-H-0270	5-G-047	VT-3	02/17/1995	PASS	Y				
1T-236-SW-01	SW	HANGER SW-H-0271	5-G-047	VT-3	02/17/1995	PASS	Y				
1T-236-SW-01	SW	HANGER SW-H-0272	5-G-047	VT-3	02/17/1995	PASS	Y				

Carolina Power & Light Company  
 Shearon Harris Nuclear Power Plant  
 Post Outage Examination Results Report

Page: 20  
 Date: 01/05/1996  
 Revision:

## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-B	LINEAR TYPE SUPPORTS
Item No. : F2.40	DISPLACEMENT SETTINGS, MISALIGNMENT, AND ASSEMBLY OF SUPPORT

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
1T-236-SW-01	SW	HANGER SW-H-0272	5-G-047	VT-3	02/17/1995	PASS	Y				
1T-236-SW-01	SW	HANGER SW-H-0273	5-G-047	VT-3	02/17/1995	PASS	Y				
1T-236-SW-01	SW	HANGER SW-H-0801	5-G-047	VT-3	02/17/1995	PASS	Y				
1T-236-SW-01	SW	HANGER SW-H-2080	5-G-047	VT-3	02/17/1995	PASS	Y			HEAVY RUST	ENG EVAL
1T-236-SW-02	SW	HANGER SW-H-0283	5-G-047	VT-3	03/07/1995	PASS	Y				
1T-236-SW-02	SW	HANGER SW-H-0284	5-G-047	VT-3	03/07/1995	PASS	Y				
1T-236-SW-02	SW	HANGER SW-H-0285	5-G-047	VT-3	03/07/1995	PASS	Y				
1T-236-SW-02	SW	HANGER SW-H-0286	5-G-047	VT-3	03/07/1995	PASS	Y				
1T-236-SW-02	SW	HANGER SW-H-0287	5-G-047	VT-3	03/07/1995	PASS	Y				
1T-236-SW-02	SW	HANGER SW-H-0288	5-G-047	VT-3	03/07/1995	PASS	Y				
1T-236-SW-02	SW	HANGER SW-H-0289	5-G-047	VT-3	03/07/1995	PASS	Y				
1T-236-SW-02	SW	HANGER SW-H-0290	5-G-047	VT-3	03/07/1995	PASS	Y				

## Hangers

Exam Requirement : 835-01    Outage : 1-3-06  
 Interval : 1    Period : 3

Category : F-B	LINEAR TYPE SUPPORTS
Item No. : F2.40	DISPLACEMENT SETTINGS, MISALIGNMENT, AND ASSEMBLY OF SUPPORT

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
1T-236-SW-02	SW	HANGER SW-H-0290	5-G-047	VT-3	03/07/1995	PASS	Y				
1T-236-SW-02	SW	HANGER SW-H-0291	5-G-047	VT-3	03/07/1995	PASS	Y				
1T-236-SW-02	SW	HANGER SW-H-0292	5-G-047	VT-3	03/07/1995	PASS	Y			HEAVY RUST	ENG EVAL
1T-236-SW-02	SW	HANGER SW-H-0293	5-G-047	VT-3	03/07/1995	PASS	Y			HEAVY RUST	ENG EVAL
1T-236-SW-02	SW	HANGER SW-H-0294	5-G-047	VT-3	03/07/1995	PASS	Y			HEAVY RUST	ENG EVAL
1T-236-SW-02	SW	HANGER SW-H-0295	5-G-047	VT-3	03/07/1995	PASS	Y			HEAVY RUST	ENG EVAL
1T-236-SW-02	SW	HANGER SW-H-0296	5-G-047	VT-3	03/07/1995	PASS	Y			HEAVY RUST	ENG EVAL
1T-236-SW-02	SW	HANGER SW-H-0297	5-G-047	VT-3	03/07/1995	PASS	Y			HEAVY RUST	ENG EVAL
1T-236-SW-02	SW	HANGER SW-H-0298	5-G-047	VT-3	03/07/1995	PASS	Y			HEAVY RUST	ENG EVAL
1T-236-SW-02	SW	HANGER SW-H-0299	5-G-047	VT-3	03/07/1995	PASS	Y			HEAVY RUST	ENG EVAL
1T-236-SW-02	SW	HANGER SW-H-0300	5-G-047	VT-3	03/07/1995	PASS	Y			HEAVY RUST	ENG EVAL
4F-236-CC-01	CC	HANGER CC-H-2010	5-G-822	VT-3	03/07/1995	PASS	Y			HEAVY RUST	ENG EVAL

## Hangers

Exam Requirement : 83S-01    Outage : 1-3-06  
 Interval : 1    Period : 3

Category : F-B    LINEAR TYPE SUPPORTS  
 Item No. : F2.40    DISPLACEMENT SETTINGS, MISALIGNMENT, AND ASSEMBLY OF SUPPORT

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
4F-236-CC-01	CC	HANGER CC-H-2010	5-G-822	VT-3	05/16/1995	PASS	Y				
4F-236-CC-01	CC	HANGER CC-H-2011	5-G-822	VT-3	05/16/1995	PASS	Y				
4F-236-CC-01	CC	HANGER CC-H-2012	5-G-822	VT-3	05/16/1995	PASS	Y				
4F-236-CC-01	CC	HANGER CC-H-2014	5-G-822	VT-3	05/12/1995	PASS	Y				
W-3032-1	SI	HANGER SI-H-0117	5-G-809	VT-3	09/15/1995	PASS	Y				
W-3034-1	SI	HANGER SI-H-0269	5-G-809	VT-3	09/15/1995	PASS	Y				
W-3034-1	SI	HANGER SI-H-0274	5-G-809	VT-3	09/15/1995	PASS	Y				
W-3034-1	SI	HANGER SI-H-0277	5-G-809	VT-3	09/20/1995	PASS	Y				
W-3038-1	SI	HANGER SI-H-0161	5-G-047	VT-3	09/15/1995	PASS	Y				
W-3038-1	SI	HANGER SI-H-0163	5-G-047	VT-3	09/15/1995	PASS	Y				
W-3038-1	SI	HANGER SI-H-0165	5-G-047	VT-3	09/15/1995	PASS	Y				
W-3038-1	SI	HANGER SI-H-0166	5-G-047	VT-3	09/15/1995	PASS	Y				



Carolina Power & Light Company  
 Shearon Harris Nuclear Power Plant  
 Post Outage Examination Results Report

Page: 24  
 Date: 01/05/1996  
 Revision:

## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-8	LINEAR TYPE SUPPORTS
Item No. : F2.40	DISPLACEMENT SETTINGS, MISALIGNMENT, AND ASSEMBLY OF SUPPORT

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
W-3056-1	SI	HANGER SI-H-0320	5-G-808	VT-3	09/09/1995	PASS	Y			
W-3056-1	SI	HANGER SI-H-0322	5-G-808	VT-3	09/09/1995	PASS	Y			
W-3056-1	SI	HANGER SI-H-0323	5-G-808	VT-3	09/09/1995	PASS	Y			
W-3056-1	SI	HANGER SI-H-0325	5-G-808	VT-3	09/09/1995	PASS	Y			
W-3056-1	SI	HANGER SI-H-0327	5-G-808	VT-3	09/09/1995	PASS	Y			
W-3060-2	SI	HANGER SI-H-0497	5-G-808	VT-3	09/09/1995	PASS	Y			



Carolina Power & Light Company  
 Shearon Harris Nuclear Power Plant  
 Post Outage Examination Results Report

Page: 25  
 Date: 01/05/1996  
 Revision:

## Hangers

Exam Requirement : 83S-01    Outage : 1-3-06  
 Interval : 1    Period : 3

Category : F-C	COMPONENT STANDARD SUPPORTS
Item No. : F3.10	MECHANICAL CONNECTIONS TO SUPPORTED COMPONENT AND BUILDING

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
5-G-012		11-AH-003A-H-001	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-003A-H-002	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-003A-H-003	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-003A-H-004	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-003A-H-005	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-003A-H-006	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-003A-H-007	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-003A-H-008	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-003A-H-009	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-003A-H-010	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-003A-H-011	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-003A-H-012	5-G-047	VT-3	09/05/1995	PASS	Y				

## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-C	COMPONENT STANDARD SUPPORTS
Item No. : F3.10	MECHANICAL CONNECTIONS TO SUPPORTED COMPONENT AND BUILDING

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
5-G-012		11-AH-003A-H-012	5-G-047	VT-3	09/05/1995	PASS	Y			
5-G-012		11-AH-003A-H-013	5-G-047	VT-3	09/05/1995	PASS	Y			
5-G-012		11-AH-003A-H-014	5-G-047	VT-3	09/05/1995	PASS	Y			
5-G-012		11-AH-003A-H-015	5-G-047	VT-3	09/05/1995	PASS	Y			
5-G-012		11-AH-003A-H-016	5-G-047	VT-3	09/05/1995	PASS	Y			
5-G-012		11-AH-003A-H-017	5-G-047	VT-3	09/05/1995	PASS	Y			
5-G-012		11-AH-003A-H-018	5-G-047	VT-3	09/05/1995	PASS	Y			
5-G-012		11-AH-003A-H-019	5-G-047	VT-3	09/05/1995	PASS	Y			
5-G-012		11-AH-003A-H-020	5-G-047	VT-3	09/05/1995	PASS	Y			
5-G-012		11-AH-003A-H-021	5-G-047	VT-3	09/05/1995	PASS	Y			
5-G-012		11-AH-003A-H-022	5-G-047	VT-3	09/05/1995	PASS	Y			
5-G-012		11-AH-003A-H-023	5-G-047	VT-3	09/05/1995	PASS	Y			

Carolina Power & Light Company  
 Shearon Harris Nuclear Power Plant  
 Post Outage Examination Results Report

Page: 27  
 Date: 01/05/1996  
 Revision:

## Hangers

Exam Requirement : 835-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-C	COMPONENT STANDARD SUPPORTS
Item No. : F3.10	MECHANICAL CONNECTIONS TO SUPPORTED COMPONENT AND BUILDING

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
5-G-012		11-AH-003A-H-023	5-G-047	VT-3	09/05/1995	PASS	Y			
5-G-012		11-AH-003A-H-024	5-G-047	VT-3	09/05/1995	PASS	Y			
5-G-012		11-AH-003A-H-025	5-G-047	VT-3	09/05/1995	PASS	Y			
5-G-012		11-AH-003A-H-026	5-G-047	VT-3	09/05/1995	PASS	Y			
5-G-012		11-AH-003A-H-027	5-G-047	VT-3	09/05/1995	PASS	Y			
5-G-012		11-AH-003A-H-028	5-G-047	VT-3	09/05/1995	PASS	Y			
5-G-012		11-AH-003A-H-029	5-G-047	VT-3	09/05/1995	PASS	Y			
5-G-012		11-AH-003A-H-030	5-G-047	VT-3	09/05/1995	PASS	Y			
5-G-012		11-AH-003A-H-031	5-G-047	VT-3	09/05/1995	PASS	Y			
5-G-012		11-AH-003B-H-001	5-G-047	VT-3	09/05/1995	PASS	Y			
5-G-012		11-AH-003B-H-002	5-G-047	VT-3	09/05/1995	PASS	Y			
5-G-012		11-AH-003B-H-003	5-G-047	VT-3	09/05/1995	PASS	Y			

Carolina Power & Light Company  
 Shearon Harris Nuclear Power Plant  
 Post Outage Examination Results Report

Page: 28  
 Date: 01/05/1996  
 Revision:

## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-C	COMPONENT STANDARD SUPPORTS
Item No. : F3.10	MECHANICAL CONNECTIONS TO SUPPORTED COMPONENT AND BUILDING

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
5-G-012		11-AH-003B-H-003	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-003B-H-004	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-003B-H-005	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-003B-H-006	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-003B-H-007	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-003B-H-008	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-003B-H-009	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-003B-H-010	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-003B-H-011	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-003B-H-012	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-003B-H-013	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-003B-H-014	5-G-047	VT-3	09/05/1995	PASS	Y				

Carolina Power & Light Company  
 Shearon Harris Nuclear Power Plant  
 Post Outage Examination Results Report

Page: 29  
 Date: 01/05/1996  
 Revision:

## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-C	COMPONENT STANDARD SUPPORTS
Item No. : F3.10	MECHANICAL CONNECTIONS TO SUPPORTED COMPONENT AND BUILDING

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
5-G-012		11-AH-003B-H-014	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-003B-H-015	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-003B-H-016	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-003B-H-017	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-003B-H-018	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-003B-H-019	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-003B-H-020	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-003B-H-021	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-003B-H-022	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-003B-H-023	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-003B-H-024	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-003B-H-025	5-G-047	VT-3	09/05/1995	PASS	Y				

Carolina Power & Light Company  
 Shearon Harris Nuclear Power Plant  
 Post Outage Examination Results Report

Page: 30  
 Date: 01/05/1996  
 Revision:

## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-C	COMPONENT STANDARD SUPPORTS
Item No. : F3.10	MECHANICAL CONNECTIONS TO SUPPORTED COMPONENT AND BUILDING

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
5-G-012		11-AH-003B-H-025	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-003B-H-026	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-003B-H-027	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-003B-H-028	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-003B-H-029	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-003B-H-030	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-003B-H-031	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004A-H-001	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004A-H-002	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004A-H-003	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004A-H-004	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004A-H-005	5-G-047	VT-3	09/05/1995	PASS	Y				

Carolina Power & Light Company  
 Shearon Harris Nuclear Power Plant  
 Post Outage Examination Results Report

Page: 31  
 Date: 01/05/1996  
 Revision:

## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-C	COMPONENT STANDARD SUPPORTS
Item No. : F3.10	MECHANICAL CONNECTIONS TO SUPPORTED COMPONENT AND BUILDING

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
5-G-012		11-AH-004A-H-005	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004A-H-006	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004A-H-007	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004A-H-008	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004A-H-009	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004A-H-010	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004A-H-011	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004A-H-012	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004A-H-013	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004A-H-014	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004A-H-015	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004A-H-016	5-G-047	VT-3	09/05/1995	PASS	Y				

Carolina Power & Light Company  
 Shearon Harris Nuclear Power Plant  
 Post Outage Examination Results Report

Page: 32  
 Date: 01/05/1996  
 Revision:

## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-C	COMPONENT STANDARD SUPPORTS
Item No. : F3.10	MECHANICAL CONNECTIONS TO SUPPORTED COMPONENT AND BUILDING

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
5-G-012		11-AH-004A-H-016	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004A-H-017	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004A-H-018	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004A-H-019	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004A-H-020	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004A-H-021	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004A-H-022	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004A-H-023	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004A-H-024	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004A-H-025	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004A-H-026	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004A-H-027	5-G-047	VT-3	09/05/1995	PASS	Y				



## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-C	COMPONENT STANDARD SUPPORTS
Item No. : F3.10	MECHANICAL CONNECTIONS TO SUPPORTED COMPONENT AND BUILDING

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
5-G-012		11-AH-004A-H-027	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004A-H-028	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004A-H-029	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004A-H-030	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004A-H-031	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004B-H-001	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004B-H-002	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004B-H-003	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004B-H-004	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004B-H-005	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004B-H-006	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004B-H-007	5-G-047	VT-3	09/05/1995	PASS	Y				

## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-C	COMPONENT STANDARD SUPPORTS
Item No. : F3.10	MECHANICAL CONNECTIONS TO SUPPORTED COMPONENT AND BUILDING

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
5-G-012		11-AH-004B-H-007	5-G-047								
				VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004B-H-008	5-G-047								
				VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004B-H-009	5-G-047								
				VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004B-H-010	5-G-047								
				VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004B-H-011	5-G-047								
				VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004B-H-012	5-G-047								
				VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004B-H-013	5-G-047								
				VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004B-H-014	5-G-047								
				VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004B-H-015	5-G-047								
				VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004B-H-016	5-G-047								
				VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004B-H-017	5-G-047								
				VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004B-H-018	5-G-047								
				VT-3	09/05/1995	PASS	Y				

## Hangers

Exam Requirement : 835-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-C	COMPONENT STANDARD SUPPORTS
Item No. : F3.10	MECHANICAL CONNECTIONS TO SUPPORTED COMPONENT AND BUILDING

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
5-G-012		11-AH-004B-H-018	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004B-H-019	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004B-H-020	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004B-H-021	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004B-H-022	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004B-H-023	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004B-H-024	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004B-H-025	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004B-H-026	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004B-H-027	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004B-H-028	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004B-H-029	5-G-047	VT-3	09/05/1995	PASS	Y				

## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-C	COMPONENT STANDARD SUPPORTS
Item No. : F3.10	MECHANICAL CONNECTIONS TO SUPPORTED COMPONENT AND BUILDING

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
5-G-012		11-AH-004B-H-029	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004B-H-030	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-012		11-AH-004B-H-031	5-G-047	VT-3	09/05/1995	PASS	Y				
5-G-015	CT	11-CTP-01CTPB-H-001	5-G-050	VT-3	07/25/1995	PASS	Y				
5-G-015	CT	11-CTP-01CTPB-H-002	5-G-050	VT-3	07/25/1995	PASS	Y				
5-G-015	CT	11-CTP-01CTPB-H-003	5-G-050	VT-3	07/25/1995	PASS	Y				
5-G-015	RH	11-RHPC-1B-H-001	5-G-824	VT-3	07/18/1995	PASS	Y				
5-G-015	RH	11-RHRP-1RHRPB-H-001	5-G-824	VT-3	07/18/1995	PASS	Y				
5-G-015	RH	11-RHRP-1RHRPB-H-002	5-G-824	VT-3	07/18/1995	PASS	Y				
5-G-015	RH	11-RHRP-1RHRPB-H-003	5-G-824	VT-3	07/18/1995	PASS	Y				
5-G-016	AF	11-SGAP-1T-H-001	5-G-044	VT-3	07/18/1995	PASS	Y				
5-G-016	AF	11-SGAP-1T-H-002	5-G-044	VT-3	07/18/1995	PASS	Y				

Carolina Power & Light Company  
 Shearon Harris Nuclear Power Plant  
 Post Outage Examination Results Report

Page: 37  
 Date: 01/05/1996  
 Revision:

## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-C	COMPONENT STANDARD SUPPORTS
Item No. . F3.10	MECHANICAL CONNECTIONS TO SUPPORTED COMPONENT AND BUILDING

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
5-G-016	AF	II-SGAP-1T-H-002	5-G-044	VT-3	07/18/1995	PASS	Y				
5-G-016	AF	II-SGAP-1T-H-003	5-G-044	VT-3	07/18/1995	PASS	Y				
5-G-016	CC	II-CCHX-1B-H-001	5-G-819	VT-3	07/18/1995	PASS	Y				
5-G-016	CC	II-CCHX-1B-H-002	5-G-819	VT-3	07/18/1995	PASS	Y				
5-G-016	CS	II-CPOC-1C-H-001	5-G-047	VT-3	08/31/1995	PASS	Y				
5-G-016	CS	II-CPOC-1C-H-002	5-G-047	VT-3	08/31/1995	PASS	Y				
5-G-016	CS	II-CSIP-1CSIPC-H-001	5-G-805	VT-3	07/18/1995	PASS	Y				
5-G-016	CS	II-CSIP-1CSIPC-H-002	5-G-805	VT-3	07/18/1995	PASS	Y				
5-G-016	CS	II-CSIP-1CSIPC-H-003	5-G-805	VT-3	07/18/1995	PASS	Y				
5-G-016	CS	II-CSIP-1CSIPC-H-004	5-G-805	VT-3	07/18/1995	PASS	Y				
5-G-016	CS	II-CSIP-1CSIPC-H-005	5-G-805	VT-3	07/18/1995	PASS	Y				
5-G-016	SW	II-SWBP-1B-H-001	5-G-047	VT-3	07/18/1995	PASS	Y				

## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-C	COMPONENT STANDARD SUPPORTS
Item No. : F3.10	MECHANICAL CONNECTIONS TO SUPPORTED COMPONENT AND BUILDING

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
5-G-016	SW	11-SWBP-1B-H-001	5-G-047	VT-3	07/18/1995	PASS	Y				
5-G-016	SW	11-SWBP-1B-H-002	5-G-047	VT-3	07/18/1995	PASS	Y				
5-G-016	SW	11-SWBP-1B-H-003	5-G-047	VT-3	07/18/1995	PASS	Y				
5-G-017	CH	11-CWP4-1B-H-001	8-G-4992	VT-3	07/18/1995	PASS	Y				
5-G-017	CH	11-CWP4-1B-H-002	8-G-4992	VT-3	07/18/1995	PASS	Y				
5-G-017	CH	11-CWP4-1B-H-003	8-G-4992	VT-3	07/18/1995	PASS	Y				
5-G-017	RH	11-RHR-01RHRB-H-001	5-G-824	VT-3	07/19/1995	PASS	Y				
5-G-017	RH	11-RHR-01RHRB-H-002	5-G-824	VT-3	07/19/1995	PASS	Y				
5-G-017	RH	11-RHR-01RHRB-H-003	5-G-824	VT-3	07/19/1995	PASS	Y				
5-G-017	RH	11-RHR-01RHRB-H-004	5-G-824	VT-3	07/19/1995	PASS	Y				
5-G-017	RH	11-RHR-01RHRB-H-005	5-G-824	VT-3	07/19/1995	PASS	Y				
5-G-017	RH	11-RHR-01RHRB-H-006	5-G-824	VT-3	07/19/1995	PASS	Y				

Carolina Power & Light Company  
 Shearon Harris Nuclear Power Plant  
 Post Outage Examination Results Report

Page: 39  
 Date: 01/05/1996  
 Revision:

## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-C	COMPONENT STANDARD SUPPORTS
Item No. : F3.10	MECHANICAL CONNECTIONS TO SUPPORTED COMPONENT AND BUILDING

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
5-G-017	RH	11-RHR-01RHRB-H-006	5-G-824	VT-3	07/19/1995	PASS	Y				
5-G-017	RH	11-RHR-01RHRB-H-007	5-G-824	VT-3	07/19/1995	PASS	Y				
5-G-017	RH	11-RHR-01RHRB-H-008	5-G-824	VT-3	07/19/1995	PASS	Y				
5-G-017	SW	11-CEP7-1B-H-001	8-G-4992	VT-3	07/18/1995	PASS	Y				
5-G-017	SW	11-CEP7-1B-H-002	8-G-4992	VT-3	07/18/1995	PASS	Y				
5-G-017	SW	11-CEP7-1B-H-003	8-G-4992	VT-3	07/18/1995	PASS	Y				
5-G-023	SF	11-FPCP-1B-H-001	5-G-305	VT-3	07/24/1995	PASS	Y				
5-G-023	SF	11-FPCP-1B-H-002	5-G-305	VT-3	07/24/1995	PASS	Y				
5-G-023	SF	11-FPCP-1B-H-003	5-G-305	VT-3	07/24/1995	PASS	Y				
5-G-023	SF	11-FPHX-1B-H-001	5-G-305	VT-3	07/24/1995	PASS	Y				
5-G-023	SF	11-FPHX-1B-H-002	5-G-305	VT-3	07/24/1995	PASS	Y				
5-G-023	SF	11-FPS-01B-H-001	5-G-305	VT-3	07/24/1995	PASS	Y				

## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-C	COMPONENT STANDARD SUPPORTS
Item No. : F3.10	MECHANICAL CONNECTIONS TO SUPPORTED COMPONENT AND BUILDING

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
5-G-023	SF	11-FPS-01B-H-001	5-G-305	VT-3	07/24/1995	PASS	Y				
5-G-205	SC	11-ESWA-1B-H-001	5-G-308	VT-3	08/31/1995	PASS	Y				
5-G-205	SC	11-ESWA-1B-H-002	5-G-308	VT-3	08/31/1995	PASS	Y				
5-G-205	SC	11-ESWA-1B-H-003	5-G-308	VT-3	08/31/1995	PASS	Y				
5-G-206	SW	11-ESWS-1B-H-001	5-G-308	VT-3	08/31/1995	PASS	Y				
5-G-206	SW	11-ESWS-1B-H-002	5-G-308	VT-3	08/31/1995	PASS	Y				
5-G-214	FO	11-FOTP-1B-H-001	5-G-063	VT-3	07/24/1995	PASS	Y				
5-G-214	FO	11-FOTP-1B-H-002	5-G-063	VT-3	07/24/1995	PASS	Y				
5-G-214	FO	11-FOTP-1B-H-003	5-G-063	VT-3	07/24/1995	PASS	Y				





## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-C	COMPONENT STANDARD SUPPORTS
Item No. : F3.40	DISPLACEMENT SETTINGS, MISALIGNMENT, AND ASSEMBLY OF SUPPORT

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
1A-261-SW-02	SW	HANGER SW-H-2145	5-G-047	VT-3	02/24/1995	PASS	Y				
1A-286-MS-01	MS	HANGER MS-H-0049	5-G-042	VT-3	09/12/1995	PASS	Y				
1C-230-SI-05	SI	HANGER SI-H-1190	5-G-810	VT-3	09/16/1995	PASS	Y				
1C-236-CC-07	CC	HANGER CC-H-1668	5-G-821	VT-3	09/07/1995	PASS	Y				
1C-236-CS-02	CS	HANGER CS-H-0355	5-G-803	VT-3	09/16/1995	PASS	Y				
1C-236-SI-04	SI	HANGER SI-H-0235	5-G-810	VT-3	09/16/1995	PASS	Y				
1C-236-SI-04	SI	HANGER SI-H-1199	5-G-810	VT-3	09/16/1995	PASS	Y				
1C-236-SI-06	SI	HANGER SI-H-0151	5-G-810	VT-3	09/19/1995	PASS	Y				
1C-236-SI-06	SI	HANGER SI-H-0156	5-G-810	VT-3	09/16/1995	PASS	Y				
1C-236-SI-06	SI	HANGER SI-H-1032	5-G-810	VT-3	09/16/1995	PASS	Y				
1C-261-AF-01	AF	HANGER AF-H-0391		VT-3	09/15/1995	PASS	Y				
1C-261-AF-03	AF	HANGER AF-H-0328		VT-3	09/15/1995	PASS	Y				

Carolina Power & Light Company  
 Shearon Harris Nuclear Power Plant  
 Post Outage Examination Results Report

Page: 43  
 Date: 01/05/1996  
 Revision:

## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-C      COMPONENT STANDARD SUPPORTS  
 Item No. : F3.40      DISPLACEMENT SETTINGS, MISALIGNMENT, AND ASSEMBLY OF SUPPORT

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
1C-261-AF-03	AF	HANGER AF-H-0328		VT-3	09/08/1995	PASS	Y				
1C-261-AF-03	AF	HANGER AF-H-0334		VT-3	09/19/1995	PASS	Y				
1C-261-AF-03	AF	HANGER AF-H-0367		VT-3	09/07/1995	PASS	Y				
1C-261-AF-03	AF	HANGER AF-H-0369		VT-3	09/19/1995	PASS	Y				
1C-FW-MS-RC-01	FW	HANGER FW-H-0100	5-G-044	VT-3	09/07/1995	PASS	Y				
1C-FW-MS-RC-01	FW	HANGER FW-H-0101	5-G-044	VT-3	09/07/1995	PASS	Y				
1C-FW-MS-RC-01	FW	HANGER FW-H-0103	5-G-044	VT-3	09/11/1995	PASS	Y			BRNG DISPLAC REPAIRED	
1C-FW-MS-RC-01	FW	HANGER FW-H-0105	5-G-044	VT-3	09/11/1995	PASS	Y				
1C-FW-MS-RC-01	FW	HANGER FW-H-0106	5-G-044	VT-3	09/09/1995	PASS	Y				
1C-FW-MS-RC-01	FW	HANGER FW-H-0108	5-G-044	VT-3	09/11/1995	PASS	Y				
1C-FW-MS-RC-01	FW	HANGER FW-H-0110	5-G-044	VT-3	09/11/1995	PASS	Y				
1C-FW-MS-RC-01	FW	HANGER FW-H-0208	5-G-044	VT-3	09/11/1995	PASS	Y				

## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-C	COMPONENT STANDARD SUPPORTS
Item No. : F3.40	DISPLACEMENT SETTINGS, MISALIGNMENT, AND ASSEMBLY OF SUPPORT

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
1C-FW-MS-RC-01	FW	HANGER FW-H-0208	5-G-044	VT-3	09/19/1995	PASS	Y			BRNG DISPLAC REPAIRED
1C-FW-MS-RC-01	MS	HANGER MS-H-0004	5-G-042	VT-3	09/19/1995	PASS	Y			
W-3029-3	RC	HANGER RC-H-0068	5-G-800	VT-3	09/20/1995	PASS	Y			
W-3032-1	SI	HANGER SI-H-0118	5-G-809	VT-3	09/15/1995	PASS	Y			
W-3034-1	SI	HANGER SI-H-0270	5-G-809	VT-3	09/15/1995	PASS	Y			
W-3034-1	SI	HANGER SI-H-0272	5-G-809	VT-3	09/15/1995	PASS	Y			
W-3034-1	SI	HANGER SI-H-0273	5-G-809	VT-3	09/15/1995	PASS	Y			
W-3034-1	SI	HANGER SI-H-0275	5-G-809	VT-3	09/15/1995	PASS	Y			
W-3036-1	SI	HANGER SI-H-0228	5-G-808	VT-3	09/20/1995	PASS	Y			
W-3036-1	SI	HANGER SI-H-0231	5-G-808	VT-3	09/20/1995	PASS	Y			
W-3038-1	SI	HANGER SI-H-0162	5-G-047	VT-3	09/15/1995	PASS	Y			
W-3038-1	SI	HANGER SI-H-0164	5-G-047	VT-3	09/15/1995	PASS	Y			

## Hangers

Exam Requirement : 835-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-C	COMPONENT STANDARD SUPPORTS
Item No. : F3.40	DISPLACEMENT SETTINGS, MISALIGNMENT, AND ASSEMBLY OF SUPPORT

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
W-3038-1	SI	HANGER SI-H-0164	5-G-047	VT-3	09/15/1995	PASS	Y				
W-3038-1	SI	HANGER SI-H-0167	5-G-047	VT-3	09/15/1995	PASS	Y				
W-3041-1	RC	HANGER RC-H-0219	5-G-801	VT-3	09/08/1995	PASS	Y				
W-3041-1	RC	HANGER RC-H-0220	5-G-801	VT-3	09/08/1995	PASS	Y				
W-3041-1	RC	HANGER RC-H-0221	5-G-801	VT-3	09/08/1995	PASS	Y				
W-3041-1	RC	HANGER RC-H-0222	5-G-801	VT-3	09/08/1995	PASS	Y				
W-3041-1	RC	HANGER RC-H-0223	5-G-801	VT-3	09/08/1995	PASS	Y				
W-3041-1	RC	HANGER RC-H-0224	5-G-801	VT-3	09/08/1995	PASS	Y				
W-3041-1	RC	HANGER RC-H-0225	5-G-801	VT-3	09/08/1995	PASS	Y				
W-3041-1	RC	HANGER RC-H-0226	5-G-801	VT-3	09/08/1995	PASS	Y				
W-3041-1	RC	HANGER RC-H-0227	5-G-801	VT-3	09/08/1995	PASS	Y				
W-3041-1	RC	HANGER RC-H-0228	5-G-801	VT-3	09/08/1995	PASS	Y				

## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-C	COMPONENT STANDARD SUPPORTS
Item No. : F3.40	DISPLACEMENT SETTINGS, MISALIGNMENT, AND ASSEMBLY OF SUPPORT

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
W-3041-1	RC	HANGER RC-H-0228	5-G-801	VT-3	09/08/1995	PASS	Y				
W-3041-1	RC	HANGER RC-H-0229	5-G-801	VT-3	09/08/1995	PASS	Y				
W-3041-1	RC	HANGER RC-H-0230	5-G-801	VT-3	09/08/1995	PASS	Y				
W-3041-1	RC	HANGER RC-H-0231	5-G-801	VT-3	09/08/1995	PASS	Y				
W-3041-1	RC	HANGER RC-H-0236	5-G-801	VT-3	09/08/1995	PASS	Y				
W-3041-1	RC	HANGER RC-H-0237	5-G-801	VT-3	09/08/1995	PASS	Y				
W-3041-1	RC	HANGER RC-H-0238	5-G-801	VT-3	09/08/1995	PASS	Y				
W-3041-1	RC	HANGER RC-H-0239	5-G-801	VT-3	09/08/1995	PASS	Y				
W-3041-1	RC	HANGER RC-H-0243	5-G-801	VT-3	09/08/1995	PASS	Y				
W-3041-1	RC	HANGER RC-H-0244	5-G-801	VT-3	09/08/1995	PASS	Y				
W-3041-1	RC	HANGER RC-H-0246	5-G-801	VT-3	09/08/1995	PASS	Y				
W-3041-1	RC	HANGER RC-H-0486	5-G-801	VT-3	09/08/1995	PASS	Y				

## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-C	COMPONENT STANDARD SUPPORTS
Item No. : F3.40	DISPLACEMENT SETTINGS, MISALIGNMENT, AND ASSEMBLY OF SUPPORT

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
W-3041-1	RC	HANGER RC-H-0486	5-G-801	VT-3	09/08/1995	PASS	Y			
W-3041-1	RC	HANGER RC-H-0487	5-G-801	VT-3	09/08/1995	PASS	Y			
W-3041-1	RC	HANGER RC-H-0494	5-G-801	VT-3	09/08/1995	PASS	Y			
W-3041-2	RC	HANGER RC-H-0199	5-G-801	VT-3	09/08/1995	PASS	Y			
W-3041-2	RC	HANGER RC-H-0209	5-G-801	VT-3	09/08/1995	PASS	Y			
W-3041-2	RC	HANGER RC-H-0214	5-G-801	VT-3	09/08/1995	PASS	Y			
W-3041-2	RC	HANGER RC-H-0491	5-G-801	VT-3	09/08/1995	PASS	Y			
W-3041-2	RC	HANGER RC-H-0664	5-G-801	VT-3	09/08/1995	PASS	Y			
W-3041-2	RC	HANGER RC-H-0665	5-G-801	VT-3	09/08/1995	PASS	Y			
W-3041-2	RC	HANGER RC-H-0666	5-G-801	VT-3	09/08/1995	PASS	Y			
W-3041-2	RC	HANGER RC-H-0667	5-G-801	VT-3	09/08/1995	PASS	Y			
W-3043-1	RC	HANGER RC-H-0002	5-G-801							

Carolina Power & Light Company  
 Shearon Harris Nuclear Power Plant  
 Post Outage Examination Results Report

Page: 48  
 Date: 01/05/1996  
 Revision:

## Hangers

Exam Requirement : 835-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-C	COMPONENT STANDARD SUPPORTS
Item No. : F3.40	DISPLACEMENT SETTINGS, MISALIGNMENT, AND ASSEMBLY OF SUPPORT

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
W-3043-1	RC	HANGER RC-H-0002	5-G-801	VT-3	09/08/1995	PASS	Y				
W-3043-1	RC	HANGER RC-H-0006	5-G-801	VT-3	09/08/1995	PASS	Y				
W-3043-1	RC	HANGER RC-H-0008	5-G-801	VT-3	09/23/1995	PASS	Y				
W-3043-1	RC	HANGER RC-H-0412	5-G-801	VT-3	09/08/1995	PASS	Y				
W-3055-1	SI	HANGER SI-H-0185	5-G-808	VT-3	09/16/1995	PASS	Y				
W-3055-1	SI	HANGER SI-H-0187	5-G-808	VT-3	09/08/1995	PASS	Y				
W-3055-1	SI	HANGER SI-H-0188	5-G-808	VT-3	09/08/1995	PASS	Y				
W-3055-1	SI	HANGER SI-H-0189	5-G-808	VT-3	09/08/1995	PASS	Y				
W-3055-1	SI	HANGER SI-H-0190	5-G-808	VT-3	09/08/1995	PASS	Y				
W-3055-1	SI	HANGER SI-H-0191	5-G-808	VT-3	09/08/1995	PASS	Y				
W-3055-1	SI	HANGER SI-H-0192	5-G-808	VT-3	09/08/1995	PASS	Y				
W-3055-1	SI	HANGER SI-H-1023	5-G-808	VT-3	09/08/1995	PASS	Y				



## Hangers

Exam Requirement : 83G-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-C	COMPONENT STANDARD SUPPORTS
Item No. : F3.40	DISPLACEMENT SETTINGS, MISALIGNMENT, AND ASSEMBLY OF SUPPORT

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
W-3055-1	SI	HANGER SI-H-1023	5-G-808	VT-3	09/09/1995	PASS	Y			
W-3055-1	SI	HANGER SI-H-1025	5-G-808	VT-3	09/16/1995	PASS	Y			
W-3056-1	SI	HANGER SI-H-0318	5-G-808	VT-3	09/09/1995	PASS	Y			
W-3056-1	SI	HANGER SI-H-0324	5-G-808	VT-3	09/09/1995	PASS	Y			
W-3056-1	SI	HANGER SI-H-0326	5-G-808	VT-3	09/09/1995	PASS	Y			
W-3060-2	SI	HANGER SI-H-0498	5-G-808	VT-3	09/09/1995	PASS	Y			
W-3060-2	SI	HANGER SI-H-0499	5-G-808	VT-3	09/09/1995	PASS	Y			
W-3060-2	SI	HANGER SI-H-0500	5-G-808	VT-3	09/09/1995	PASS	Y			
W-3060-2	SI	HANGER SI-H-0501	5-G-808	VT-3	09/09/1995	PASS	Y			
W-3060-2	SI	HANGER SI-H-0502	5-G-808	VT-3	09/09/1995	PASS	Y			
W-3060-2	SI	HANGER SI-H-0503	5-G-808	VT-3	09/09/1995	PASS	Y			
W-3060-2	SI	HANGER SI-H-0504	5-G-808	VT-3	09/09/1995	PASS	Y			

Carolina Power & Light Company  
 Shearon Harris Nuclear Power Plant  
 Post Outage Examination Results Report

Page: 50  
 Date: 01/05/1996  
 Revision:

## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-C	COMPONENT STANDARD SUPPORTS
Item No. : F3.40	DISPLACEMENT SETTINGS, MISALIGNMENT, AND ASSEMBLY OF SUPPORT

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
W-3060-2	SI	HANGER SI-H-0504	5-G-808	VT-3	09/09/1995	PASS	Y				
W-3060-2	SI	HANGER SI-H-0506	5-G-808	VT-3	09/09/1995	PASS	Y				
W-3060-2	SI	HANGER SI-H-0507	5-G-808	VT-3	09/14/1995	PASS	Y				
W-3060-2	SI	HANGER SI-H-0508	5-G-808	VT-3	09/09/1995	PASS	Y				
W-3060-2	SI	HANGER SI-H-0509	5-G-808	VT-3	09/09/1995	PASS	Y				
W-3060-2	SI	HANGER SI-H-1092	5-G-808	VT-3	09/16/1995	PASS	Y				



## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-C	COMPONENT STANDARD SUPPORTS
Item No. : F3.50	SPRING, CONSTANT, SHOCK ABSORBER, AND SNUBBER SUPPORTS

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
1A-261-SW-01	SW	HANGER SW-H-2126	5-G-047	VT-4	02/22/1995	PASS	Y				
1A-261-SW-02	SW	HANGER SW-H-2145	5-G-047	VT-4	02/24/1995	PASS	Y				
1A-286-MS-01	MS	HANGER MS-H-0049A	5-G-042	VT-4	09/12/1995	PASS	Y				
1A-286-MS-01	MS	HANGER MS-H-0049B	5-G-042	VT-4	09/12/1995	PASS	Y				
1C-230-SI-05	SI	HANGER SI-H-1190	5-G-810	VT-4	09/16/1995	PASS	Y				
1C-236-CC-07	CC	HANGER CC-H-1668A	5-G-821	VT-4	09/07/1995	PASS	Y				
1C-236-CS-02	CS	HANGER CS-H-0355A	5-G-803	VT-4	09/16/1995	PASS	Y				
1C-236-SI-04	SI	HANGER SI-H-0235A	5-G-810	VT-4	09/16/1995	PASS	Y				
1C-236-SI-04	SI	HANGER SI-H-1199A	5-G-810	VT-4	09/16/1995	PASS	Y				
1C-236-SI-06	SI	HANGER SI-H-0151A	5-G-810	VT-4	09/19/1995	PASS	Y				
1C-236-SI-06	SI	HANGER SI-H-0156A	5-G-810	VT-4	09/16/1995	PASS	Y				
1C-236-SI-06	SI	HANGER SI-H-1032A	5-G-810	VT-4	09/16/1995	PASS	Y				

Carolina Power & Light Company  
 Shearon Harris Nuclear Power Plant  
 Post Outage Examination Results Report

Page: 53  
 Date: 01/05/1996  
 Revision:

## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-C	COMPONENT STANDARD SUPPORTS
Item No. : F3.50	SPRING, CONSTANT, SHOCK ABSORBER, AND SNUBBER SUPPORTS

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Indication Type	Indication Resolution
1C-236-SI-06	SI	HANGER	SI-H-1032A	5-G-810						
				VT-4	09/16/1995	PASS	Y			
1C-261-AF-01	AF	HANGER	AF-H-0391A							
				VT-4	09/15/1995	PASS	Y			
1C-261-AF-01	AF	HANGER	AF-H-0391B							
				VT-4	09/15/1995	PASS	Y			
1C-261-AF-03	AF	HANGER	AF-H-0328A							
				VT-4	09/08/1995	PASS	Y			
1C-261-AF-03	AF	HANGER	AF-H-0328B							
				VT-4	09/08/1995	PASS	Y			
1C-261-AF-03	AF	HANGER	AF-H-0334A							
				VT-4	09/19/1995	PASS	Y			
1C-261-AF-03	AF	HANGER	AF-H-0367A							
				VT-4	09/07/1995	PASS	Y			
1C-261-AF-03	AF	HANGER	AF-H-0369A							
				VT-4	09/19/1995	PASS	Y			
1C-FW-MS-RC-01	FW	HANGER	FW-H-0100	5-G-044						
				VT-4	09/07/1995	PASS	Y			
1C-FW-MS-RC-01	FW	HANGER	FW-H-0101A	5-G-044						
				VT-4	09/07/1995	PASS	Y			
1C-FW-MS-RC-01	FW	HANGER	FW-H-0103A	5-G-044						
				VT-4	09/11/1995	PASS	Y			
1C-FW-MS-RC-01	FW	HANGER	FW-H-0105A	5-G-044						

## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-C      COMPONENT STANDARD SUPPORTS  
 Item No. : F3.50      SPRING, CONSTANT, SHOCK ABSORBER, AND SNUBBER SUPPORTS

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
1C-FW-MS-RC-01	FW	HANGER FW-H-0105A	5-G-044	VT-4	09/11/1995	PASS	Y				
1C-FW-MS-RC-01	FW	HANGER FW-H-0106A	5-G-044	VT-4	09/09/1995	PASS	Y				
1C-FW-MS-RC-01	FW	HANGER FW-H-0106B	5-G-044	VT-4	09/09/1995	PASS	Y				
1C-FW-MS-RC-01	FW	HANGER FW-H-0108A	5-G-044	VT-4	09/11/1995	PASS	Y				
1C-FW-MS-RC-01	FW	HANGER FW-H-0110A	5-G-044	VT-4	09/11/1995	PASS	Y				
1C-FW-MS-RC-01	FW	HANGER FW-H-0208A	5-G-044	VT-4	09/19/1995	PASS	Y			BRNG DISPLAC REPAIRED	
1C-FW-MS-RC-01	MS	HANGER MS-H-0004A	5-G-042	VT-4	09/19/1995	PASS	Y				
1F-236-SF-08	SF	HANGER SF-H-1307	5-G-305	VT-4	02/22/1995	PASS	Y				
W-3029-3	RC	HANGER RC-H-0068A	5-G-800	VT-4	09/20/1995	PASS	Y				
W-3032-1	SI	HANGER SI-H-0118A	5-G-809	VT-4	09/15/1995	PASS	Y				
W-3034-1	SI	HANGER SI-H-0270A	5-G-809	VT-4	09/15/1995	PASS	Y				
W-3034-1	SI	HANGER SI-H-0272A	5-G-809	VT-4	09/15/1995	PASS	Y				

## Hangers

Exam Requirement : 835-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-C	COMPONENT STANDARD SUPPORTS
Item No. : F3.50	SPRING, CONSTANT, SHOCK ABSORBER, AND SNUBBER SUPPORTS

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
W-3034-1	SI	HANGER SI-H-0272A	5-G-809	VT-4	09/15/1995	PASS	Y				
W-3034-1	SI	HANGER SI-H-0272B	5-G-809	VT-4	09/15/1995	PASS	Y				
W-3034-1	SI	HANGER SI-H-0273A	5-G-809	VT-4	09/15/1995	PASS	Y				
W-3034-1	SI	HANGER SI-H-0273B	5-G-809	VT-4	09/15/1995	PASS	Y				
W-3034-1	SI	HANGER SI-H-0275A	5-G-809	VT-4	09/15/1995	PASS	Y				
W-3036-1	SI	HANGER SI-H-0228	5-G-808	VT-4	09/20/1995	PASS	Y				
W-3036-1	SI	HANGER SI-H-0231	5-G-808	VT-4	09/20/1995	PASS	Y				
W-3038-1	SI	HANGER SI-H-0162A	5-G-047	VT-4	09/15/1995	PASS	Y				
W-3038-1	SI	HANGER SI-H-0162B	5-G-047	VT-4	09/15/1995	PASS	Y				
W-3038-1	SI	HANGER SI-H-0164A	5-G-047	VT-4	09/15/1995	PASS	Y				
W-3038-1	SI	HANGER SI-H-0164B	5-G-047	VT-4	09/15/1995	PASS	Y				
W-3038-1	SI	HANGER SI-H-0167A	5-G-047	VT-4	09/15/1995	PASS	Y				

Carolina Power & Light Company  
 Shearon Harris Nuclear Power Plant  
 Post Outage Examination Results Report

Page: 56  
 Date: 01/05/1996  
 Revision:

## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-C	COMPONENT STANDARD SUPPORTS
Item No. : F3.50	SPRING, CONSTANT, SHOCK ABSORBER, AND SNUBBER SUPPORTS

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
W-3038-1	SI	HANGER SI-H-0167A	5-G-047	VT-4	09/15/1995	PASS	Y			
W-3038-1	SI	HANGER SI-H-0167B	5-G-047	VT-4	09/15/1995	PASS	Y			
W-3041-1	RC	HANGER RC-H-0219	5-G-801	VT-4	09/08/1995	PASS	Y			
W-3041-1	RC	HANGER RC-H-0220A	5-G-801	VT-4	09/08/1995	PASS	Y			
W-3041-1	RC	HANGER RC-H-0221A	5-G-801	VT-4	09/08/1995	PASS	Y			
W-3041-1	RC	HANGER RC-H-0222A	5-G-801	VT-4	09/08/1995	PASS	Y			
W-3041-1	RC	HANGER RC-H-0223	5-G-801	VT-4	09/08/1995	PASS	Y			
W-3041-1	RC	HANGER RC-H-0224A	5-G-801	VT-4	09/08/1995	PASS	Y			
W-3041-1	RC	HANGER RC-H-0225A	5-G-801	VT-4	09/08/1995	PASS	Y			
W-3041-1	RC	HANGER RC-H-0226	5-G-801	VT-4	09/08/1995	PASS	Y			
W-3041-1	RC	HANGER RC-H-0227	5-G-801	VT-4	09/08/1995	PASS	Y			
W-3041-1	RC	HANGER RC-H-0228A	5-G-801	VT-4	09/08/1995	PASS	Y			



Carolina Power & Light Company  
 Shearon Harris Nuclear Power Plant  
 Post Outage Examination Results Report

Page: 57  
 Date: 01/05/1996  
 Revision:

## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-C	COMPONENT STANDARD SUPPORTS
Item No. : F3.50	SPRING, CONSTANT, SHOCK ABSORBER, AND SNUBBER SUPPORTS

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
W-3041-1	RC	HANGER RC-H-0228A	5-G-801	VT-4	09/08/1995	PASS	Y				
W-3041-1	RC	HANGER RC-H-0229A	5-G-801	VT-4	09/08/1995	PASS	Y				
W-3041-1	RC	HANGER RC-H-0230A	5-G-801	VT-4	09/08/1995	PASS	Y				
W-3041-1	RC	HANGER RC-H-0230B	5-G-801	VT-4	09/08/1995	PASS	Y				
W-3041-1	RC	HANGER RC-H-0231A	5-G-801	VT-4	09/08/1995	PASS	Y				
W-3041-1	RC	HANGER RC-H-0236A	5-G-801	VT-4	09/08/1995	PASS	Y				
W-3041-1	RC	HANGER RC-H-0237	5-G-801	VT-4	09/08/1995	PASS	Y				
W-3041-1	RC	HANGER RC-H-0238A	5-G-801	VT-4	09/08/1995	PASS	Y				
W-3041-1	RC	HANGER RC-H-0239A	5-G-801	VT-4	09/08/1995	PASS	Y				
W-3041-1	RC	HANGER RC-H-0243	5-G-801	VT-4	09/08/1995	PASS	Y				
W-3041-1	RC	HANGER RC-H-0244A	5-G-801	VT-4	09/08/1995	PASS	Y				
W-3041-1	RC	HANGER RC-H-0246A	5-G-801	VT-4	09/08/1995	PASS	Y				

## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-C      COMPONENT STANDARD SUPPORTS  
 Item No. : F3.50      SPRING, CONSTANT, SHOCK ABSORBER, AND SNUBBER SUPPORTS

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS Request	Indication Type	Indication Resolution
W-3041-1	RC	HANGER RC-H-0246A	5-G-801	VT-4	09/08/1995	PASS	Y			
W-3041-1	RC	HANGER RC-H-0246B	5-G-801	VT-4	09/08/1995	PASS	Y			
W-3041-1	RC	HANGER RC-H-0486A	5-G-801	VT-4	09/08/1995	PASS	Y			
W-3041-1	RC	HANGER RC-H-0486B	5-G-801	VT-4	09/08/1995	PASS	Y			
W-3041-1	RC	HANGER RC-H-0487A	5-G-801	VT-4	09/08/1995	PASS	Y			
W-3041-1	RC	HANGER RC-H-0494A	5-G-801	VT-4	09/08/1995	PASS	Y			
W-3041-2	RC	HANGER RC-H-0199	5-G-801	VT-4	09/08/1995	PASS	Y			
W-3041-2	RC	HANGER RC-H-0209	5-G-801	VT-4	09/08/1995	PASS	Y			
W-3041-2	RC	HANGER RC-H-0214	5-G-801	VT-4	09/08/1995	PASS	Y			
W-3041-2	RC	HANGER RC-H-0491A	5-G-801	VT-4	09/08/1995	PASS	Y			
W-3041-2	RC	HANGER RC-H-0664A	5-G-801	VT-4	09/08/1995	PASS	Y			
W-3041-2	RC	HANGER RC-H-0665A	5-G-801	VT-4	09/08/1995	PASS	Y			

Carolina Power & Light Company  
 Shearon Harris Nuclear Power Plant  
 Post Outage Examination Results Report

Page: 59  
 Date: 01/05/1996  
 Revision:

## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-C	COMPONENT STANDARD SUPPORTS
Item No. : F3.50	SPRING, CONSTANT, SHOCK ABSORBER, AND SNUBBER SUPPORTS

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
W-3041-2	RC	HANGER RC H-0665A	5-G-801	VT-4	09/08/1995	PASS	Y				
W-3041-2	RC	HANGER RC-H-0666A	5-G-801	VT-4	09/08/1995	PASS	Y				
W-3041-2	RC	HANGER RC-H-0667A	5-G-801	VT-4	09/08/1995	PASS	Y				
W-3043-1	RC	HANGER RC-H-0002A	5-G-801	VT-4	09/08/1995	PASS	Y				
W-3043-1	RC	HANGER RC-H-0002B	5-G-801	VT-4	09/08/1995	PASS	Y				
W-3043-1	PC	HANGER RC-H-0006A	5-G-801	VT-4	09/08/1995	PASS	Y				
W-3043-1	RC	HANGER RC-H-0008	5-G-801	VT-4	09/23/1995	PASS	Y				
W-3043-1	RC	HANGER RC-H-0412A	5-G-801	VT-4	09/08/1995	PASS	Y				
W-3043-1	RC	HANGER RC-H-0412B	5-G-801	VT-4	09/08/1995	PASS	Y				
W-3055-1	SI	HANGER SI-H-0185A	5-G-808	VT-4	09/16/1995	PASS	Y				
W-3055-1	SI	HANGER SI-H-0185B	5-G-808	VT-4	09/16/1995	PASS	Y				
W-3055-1	SI	HANGER SI-H-0187A	5-G-808	VT-4	09/16/1995	PASS	Y				



## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-C	COMPONENT STANDARD SUPPORTS
Item No. : F3.50	SPRING, CONSTANT, SHOCK ABSORBER, AND SNUBBER SUPPORTS

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
W-3056-1	SI	HANGER SI-H-0318A	5-G-808	VT-4	09/09/1995	PASS	Y				
W-3056-1	SI	HANGER SI-H-0324A	5-G-808	VT-4	09/09/1995	PASS	Y				
W-3056-1	SI	HANGER SI-H-0326A	5-G-808	VT-4	09/09/1995	PASS	Y				
W-3060-2	SI	HANGER SI-H-0498A	5-G-808	VT-4	09/09/1995	PASS	Y				
W-3060-2	SI	HANGER SI-H-0499A	5-G-808	VT-4	09/09/1995	PASS	Y				
W-3060-2	SI	HANGER SI-H-0500A	5-G-808	VT-4	09/09/1995	PASS	Y				
W-3060-2	SI	HANGER SI-H-0501A	5-G-808	VT-4	09/09/1995	PASS	Y				
W-3060-2	SI	HANGER SI-H-0502A	5-G-808	VT-4	09/09/1995	PASS	Y				
W-3060-2	SI	HANGER SI-H-0503A	5-G-808	VT-4	09/09/1995	PASS	Y				
W-3060-2	SI	HANGER SI-H-0504A	5-G-808	VT-4	09/09/1995	PASS	Y				
W-3060-2	SI	HANGER SI-H-0506A	5-G-808	VT-4	09/09/1995	PASS	Y				
W-3060-2	SI	HANGER SI-H-0507A	5-G-808	VT-4	09/09/1995	PASS	Y				

Carolina Power & Light Company  
 Shearon Harris Nuclear Power Plant  
 Post Outage Examination Results Report

Page: 62  
 Date: 01/05/1996  
 Revision:

## Hangers

Exam Requirement : 83S-01      Outage : 1-3-06  
 Interval : 1      Period : 3

Category : F-C	COMPONENT STANDARD SUPPORTS
Item No. : F3.50	SPRING, CONSTANT, SHOCK ABSORBER, AND SNUBBER SUPPORTS

ISI Drawing	System	Component Number	Boundary Drawing	Exam Type	Exam Date	Exam Result	Credit XI	Relief TS	Request	Indication Type	Indication Resolution
W-3060-2	SI	HANGER	SI-H-0507A	5-G-808							
				VT-4	09/14/1995	PASS	Y				
W-3060-2	SI	HANGER	SI-H-0508A	5-G-808							
				VT-4	09/09/1995	PASS	Y				
W-3060-2	SI	HANGER	SI-H-0509	5-G-808							
				VT-4	09/09/1995	PASS	Y				
W-3060-2	SI	HANGER	SI-H-1092A	5-G-808							
				VT-4	09/16/1995	PASS	Y				

Number of records printed : 642

**SECTION 5**

**NIS-2 FORMS  
REPORT OF REPAIRS AND REPLACEMENTS**

REPAIR AND REPLACEMENT ACTIVITIES  
 STARTUP FROM REFUELING OUTAGE 5 THROUGH REFUELING OUTAGE 6  
 MAY 13, 1994 THROUGH OCTOBER 12, 1995

CLASS	DOCUMENT NUMBER	DESCRIPTION	REPAIR/REPLACEMENT NUMBER
1	WR&A 94-ANDM1 ESR 9400344	Welded cap over bonnet sealing valve 1CS-486 body to bonnet leak	HNZ-CS-V506SN-01
1	WR&A 95-ADYZ1	Replaced Pressurizer Safety Valve 1RC-127 with spare allowing old valve to tested	065-RC-R528SN-02
2	WR&A 94-AHNN1 ESR 9500196	Replaced 1CS-231 valve plug as part of trim set to improve flow characteristics	HNI-CS-F524SN-01
2	WR&A 94-AITQ1	Replaced cap screws attaching A-S/G Secondary Manway A2	184-1A-SN-06
2	WR&A 94-AITS1	Replaced cap screws attaching B-S/G Secondary Manways B1 and B2	184-1B-SN-05
2	WR&A 94-AITT1	Replaced cap screws attaching C-S/G Secondary Manways C1 and C2	184-1C-SN-04
2	WR&A 94-AJAB1	Replaced valve 1CS-750 which was leaking by its seat and portion of adjacent pipe	HNK-CS-V750SN-01
2	WR&A 94-AMGA1	Replaced valve 1CS-748 which was leaking by its seat and portion of adjacent pipe	HNK-CS-V752SN-01
2	WR&A 94-AMGW1 ESR 9500641	Replaced check valve 1CS-179 which was leaking by its seat	HNZ-CS-V136SN-02



CLASS	DOCUMENT NUMBER	DESCRIPTION	REPAIR/REPLACEMENT NUMBER
2	WR&A 94-APMF1	Replaced bolting intentionally cut to facilitate removal at flange connections supplying Emergency Service Water to Containment Fan Cooler AH-1	CBA-AH-1-1X-01
2	WR&A 94-APMG1	Replaced bolting intentionally cut to facilitate removal at flange connections supplying Emergency Service Water to Containment Fan Cooler AH-2	CBA-AH-2-1X-02
2	WR&A 94-APMH1	Replaced bolting intentionally cut to facilitate removal at flange connections supplying Emergency Service Water to Containment Fan Cooler AH-3	CBA-AH-3-1X-02
2	WR&A 94-APMI1	Replaced bolting intentionally cut to facilitate removal at flange connections supplying Emergency Service Water to Containment Fan Cooler AH-4	CBA-AH-4-1X-02
2	WR&A 94-AQUI2 ESR 9500795	Installed cap on leaking valve bonnet of swing check valve 1AF-106	JJF-AF-V154SAB-01
2	WR&A 95-ABCN1 ESR 9500059	Replaced a cooling coil in Containment Fan Cooler AH-4 which had tubes that had been plugged	CBA-AH-4-1X-01
2	WR&A 95-ABRB1	Replaced a stud and nuts on the Containment Refueling Access Sleeve (Penx. M66) flange	FHF-M66-01

CLASS	DOCUMENT NUMBER	DESCRIPTION	REPAIR/REPLACEMENT NUMBER
2	WR&A 95-ACAK1 ESR 9500788	Reduced from 20 to 5 the number of bolts required to attach a blind flange to the Spent Fuel Transfer Tube inside Containment	CFY-FTT-FLANGE-01
2	WR&A 95-ACYA1	Replaced secondary inspection port cover A3 bolt #4 on the A-S/G	184-1A-SN-05
2	WR&A 95-ACYI1	Replaced secondary inspection port cover #2 bolt #3 on the B-S/G	184-1B-SN-04
2	WR&A 95-ACYQ1	Replaced secondary inspection port covers C3, bolts #1 & #3 and C4, bolts #1, & #3 on the C-S/G	184-1C-SN-03
2	WR&A 95-ADFE1	Replaced B-S/G hydraulic snubber SG-H-309B which failed its functional test	1-SG-H-309B-02
2	WR&A 95-ADLK1 ESR 9400252	Replaced Containment Purge Valve 1CP-3 with different type to improve reliability	MKJ-CP-B6SB-01
2	WR&A 95-ADLL1 ESR 9400252	Replaced Containment Purge Valve 1CP-5 with different type to improve reliability	MKJ-CP-B5SA-01
2	WR&A 95-ADLP1 ESR 9400252	Replaced Containment Purge Valve 1CP-6 with different type to improve reliability	MKJ-CP-B2SB-01
2	WR&A 95-ADLQ1 ESR 9400252	Replaced Containment Purge Valve 1CP-9 with different type to improve reliability	MKJ-CP-B1SA-01
2	WR&A 95-AHPK1 ESR 9500641	Replaced check valve 1CS-193 which was leaking by its seat	HNZ-CS-V138SN-02

CLASS	DOCUMENT NUMBER	DESCRIPTION	REPAIR/REPLACEMENT NUMBER
2	WR&A 94-AIAF1	Replaced bolt in discharge flange of relief valve 1CS-47	FAU-CS-V510SN-01

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 12/15/95  
Name
- P.O. Box 1551, Raleigh, N. C. 27602-1551 Sheet 1 of 1  
Address
2. Plant Shearon Harris Nuclear Power Plant Unit 1  
Name
- P.O. Box 165, New Hill, N. C. 27562-0165 WR&A 94ANDM1 (ESR 94-00344)  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Carolina Power and Light Company Type Code Symbol Stamp N/A  
Name Authorization No. N/A
- New Hill, N.C. 27562-0165 Address Expiration Date N/A
4. Identification of System Chemical and Volume Control (2060)
5. (a) Applicable Construction Code ASME Sect. III 19 74 Edition, Winter 1976 Addenda, \_\_\_\_\_ Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983
6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Check Valve	Westinghouse Electric Corp.	03001CS880000 2000S740004	W18339	1CS-486 1CS-V506SN-1	1978	Repaired	Yes
Seal Cap	Astro Nuclear/ Dynamics INC.	A0146	N/A	PO# 7P7462 Part# 740-772-31	1994	Replacement	No

7. Description of Work Welded cap over bonnet sealing body to bonnet leak.
8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  - N/A  
 Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks See attached manufacturer's certificate of compliance and data report. No pressure testing is required as weld  
Applicable Manufacturer's Date Reports to be attached  
weld did not penetrate the pressure boundary. Ref. IWA-4400(b)(3).

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the  
ASME Code, Section XI.  
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed Mark A. Payne for wits ECCS Supervisor Date 12/15, 19 95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the  
State or Province of North Carolina and employed by The Hartford Steam Boiler and Insurance Company of  
One State Street, Hartford, Connecticut 06102 have inspected the components described  
in this Owner's Report during the period 05/13/94 to 10/12/95, and state that  
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the  
examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer  
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with  
this inspection.

Edgar B. Dayton Commissions NC 1042  
Inspector's Signature National Board, State, Province, and Endorsements  
Date Dec 29 19 95

# Astro Nuclear/Dynamics Inc. Certificate of Compliance and Quality Assurance Material Release

CUSTOMER NAME:

Westinghouse Electric Corporation  
(W) RCS  
Avenue A & West Street  
Pittsburgh, PA 15221

SUPPLIER:

Astro Nuclear/Dynamics Inc.  
811 Route 51 South  
Large, PA 15025

ANDI Job Number: M-0586

Customer Contract No.: MA-57569-D

Latest C/N No. N/A

A. Item Identification (as applicable):

Item No.	Part Name	Part/Dwg. No.	Spin	Qty.	S.O.	ANDI Serial No.
001	Cap, Seal	1534B01H01 Rev. 4 & W MOD: 4936A60 Rev. 5 Tag: 739-997-16	ASVANSKJ	2	220	A-0146 & A-0147
ASME SA-182 Type 316, Sect. III, Div. I, Class 1, 1986 Edition, No Addenda.						

Nonconformances: NONE

W G.O. No.: RAD67532/CPL

10CFR21 - Applies

Customer Order No.: 7P7462DE

3 A.N.D.I. Certificate of Authorization number N-2869 expires August 7, 1995.

9 We certify that, with the exception of the approved nonconformances listed above, these items are in compliance with the procurement document and that all required tests and inspections have been performed, and the results accepted. Documented evidence supporting this Certificate of Compliance is available for review.

Items supplied for shipment with (W) procurement document MA-57569 are certified to be interchangeable with referenced part drawing rev. as to fit, function, and materials, and that any known changes in these characteristics have been reviewed and approved by the Westinghouse engineering design function to assure that interchangeability has been maintained considering Westinghouse Equipment Specification and ASME Code requirements, as applicable.

QAMR Release No: ANDI-94-0365  
Shipment No: 1025

Signature *[Signature]*  
Manager Quality Assurance

Date 8/4/99

QAMR Distribution:  
Quality Assurance: Two (2)  
With Shipment: Two (2)

*J*



Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
Main Flange Studs	SA453 GR 660	Plainville Mfg. Co.	HT. No. 6125142
Main Flange Nuts	SA194 GR 6	Jos. Dyson & Sons	HT. No. 22919
(d) Other Parts			

8. Hydrostatic test 5490 psi.

**CERTIFICATION OF DESIGN**

Design information on file at Westinghouse Electro-Mechanical Division  
 Stress analysis report on file at Westinghouse Electro-Mechanical Division  
 Design specifications certified by Henry P. Leonard (1) Prof. Eng. State PA Reg. No. 23938-E  
 Stress analysis report certified by Harry E. Eminger (1) Prof. Eng. State PA Reg. No. 10729-E  
 (1) Signature not required. List name only.

We certify that the statements made in this report are correct.  
 Date 11-8 19 78 Signed Westinghouse Electric  
Electro-Mechanical Div. By [Signature]  
 (Manufacturer)

Certificate of Authorization No. 1385 expires May 14, 1979

**CERTIFICATE OF SHOP INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Pennsylvania and employed by Lumbermens Mutual Casualty Co. of Long Grove, Illinois have inspected the equipment described in this Data Report on 11-9-78 19 78, and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 11-9-78 19 78

[Signature] (Inspector) Commission NB6434 P-2063  
 (National Board, State, Province and No.)



**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 12/20/95  
Name  
P.O. Box 1551, Raleigh, N. C. 27602-1551 Sheet 1 of 1  
Address
2. Plant Shearon Harris Nuclear Power Plant Unit 1  
Name  
P.O. Box 165, New Hill, N. C. 27562-0165 WR&A 95-ADY21  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Carolina Power and Light Company Type Code Symbol Stamp N/A  
Name  
New Hill, N.C. 27562-0165 Authorization No. N/A  
Address Expiration Date N/A
4. Identification of System Reactor Coolant - Pressurize (2050)
5. (a) Applicable Construction Code ASME Sect. III 19 74 Edition, Winter 1976 Addenda, \_\_\_\_\_ Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983
6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Safety Valve	Crosby Valve & Gage Co.	N56964-00-0052	224	1RC-127 1RC-R528SN-1	1976	Replaced	Yes
Safety Valve	Crosby Valve & Gage Co.	N56964-00-0088	374	Same	1976	Replacement	Yes

7. Description of Work Replace Pressurizer Safety relief valve with spare to allow old valve to be shipped to Wylie Labs for ASME Sect. XI testing.
8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks See attached manufacturer data reports. Valve pressure tested with the class 1 System Leakage test at the end of  
Applicable Manufacturer's Date Reports to be attached  
RFO6 which was completed per EST-201 on 10/8/95.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the  
ASME Code, Section XI.. repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed <sup>#</sup> AW Worth for WAS ECCS Supervisor Date 12/20, 19 95  
Owner or Owner's Designee, Title

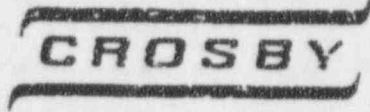
CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the  
State or Province of North Carolina and employed by The Hartford Steam Boiler and Insurance Company of  
One State Street, Hartford, Connecticut 06102 have inspected the components described  
in this Owner's Report during the period 05/13/94 to 10/12/95, and state that  
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the  
examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer  
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with  
this inspection.

Edgar B. Dauter Commissions NC 1042  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec 27 19 95



**CROSBY VALVE & GAGE COMPANY**  
**WRENTHAM, MASS**

FORM NV-1 FOR SAFETY AND SAFETY RELIEF VALVES  
 As required by the Provisions of the ASME Code Rules  
 G.C.-44C

**DATA REPORT**  
 Safety and Safety Relief Valves

1. Manufactured By Crosby Valve & Gage Co., 43 Kendrick St., Wrentham, MA 02093  
 Name and Address

Model No. HB-BP-86 Order No. N303167 Contract Date 4-4-73 National Board No. 374  
Westinghouse Electric Corp., Nuclear Energy Systems

2. Manufactured For P.O. Box 355, Pittsburgh, PA 15230 Order No. 546-CCK-178367-BN  
 Name and Address

3. Owner Carolina Power & Light Co., Shearon Harris Nuclear Power Plant #3  
 Name and Address

4. Location of Plant Bonsal, North Carolina

5. Valve Identification 6RV89MSB Serial No. N56964-00-0088 Drawing No. DS-C-56964 Rev. C

Type Safety Orifice Size M Pipe Size - Inlet 6 Outlet 6  
Safety, Safety Relief, Pilot, Power Actuated Inch Inch Inch Inch

6. Set Pressure (PSIG) 2485 650  
 Ra. & Temperature

Stamped Capacity 420006 LBS./HR. SAT. 3 % Overpressure Blowdown (PSIG)

Hydrostatic Test (PSIG) Inlet 4575 Complete Valve 750 PSIG

7. The material, design, construction and workmanship comply with ASME Code, Section III.

Class 1 Edition 1971, Addenda Date Winter 1972, Case No. \_\_\_\_\_

Pressure Containing or Pressure Retaining Components

a. Castings	Serial No. Identification	Material Specification Including Type or Grade
Body	<u>N90490-44-0100</u>	<u>ASME SA182 Gr. F316</u>
Bonnet	<u>N90353-44-0115</u>	<u>ASME SA105</u>
b. Bar Stock and Forgings		
Holder <u>K57220-42-0098</u>	<u>N90553-47-0112</u>	<u>ASTM A637-70 Gr. 718</u> <u>ASME SA637 Gr. 718</u>
Nozzle	<u>N90555-45-0102</u>	<u>ASME SA182 Gr. F316</u>
Disc <u>K57220-42-0098</u>	<u>N90349-47-0131</u>	<u>Haynes Stellite Alloy #6B</u>
Spring Washers	<u>N90350-42-0255</u> <u>N90350-40-0238</u>	<u>ASME SA105 C-1029</u>
Adjusting Bolt	<u>N90351-43-0132</u>	<u>ASTM A193-70 Gr. B6</u> <u>ASME SA193 Gr. B6</u>
Spindle <u>K56381-44-0138</u>	<u>N90354-46-0132</u>	<u>ASTM A193-73 Gr. B6 Type 410</u> <u>ASME SA193 Gr. B6 Type 410</u>

1045

3-178367-13

	Serial No. or Identification	Material Specification Including Type or Grade
c. Spring	<u>NX2761-0147</u>	<u>ASTM A304 51860H</u>
d. Bolting	_____	_____
e. Other Parts such as Pilot Components	_____	_____
<u>STUD</u>	<u>N90488-1232 thru 1243</u>	<u>ASME SA453 Gr. 50</u>
<u>NUT</u>	<u>N90489-1227 thru 1238</u>	<u>ASTM A193-70 Gr. B6</u>

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We certify that the statements made in this report are correct.

Date 9-6 1977 Signed Crosby Valve & Gage Co. By [Signature]  
Manufacturer

Certificate of Authorization No. 926 expires October 28, 1977

**CERTIFICATE OF SHOP INSPECTION**

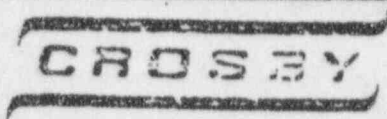
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Mass. and employed by Factory Mutual Systems\*, Norwood, Mass. have inspected the equipment described in this Data Report on 9-20 1977 and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Section III.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 9-20 19 77  
[Signature]  
(Inspector) Commissions NR 7325  
National Board, State, Province and No.

\*Arkwright-Boston Manufacturers Mutual Insurance Company - Mutual Boiler & Machinery Division.

33 Q.A. 178367-13



**CROSBY VALVE & GAGE COMPANY**  
**WRENTHAM, MASS**

FORM MV-1 FOR SAFETY AND SAFETY RELIEF VALVES  
 As required by the Provisions of the ASME Code Rules

G.C. 44C

**DATA REPORT**  
 Safety and Safety Relief Valves

1. Manufactured By Crosby Valve & Gage Company, 43 Kendrick St. Wrentham, Mass 02093  
Name and Address

Model No. HB-86-52 Order No. N303159 Contract Date 4/4/73 National Board No. 224  
Westinghouse Electric Corp., Nuclear

2. Manufactured For Energy Systems, Pittsburgh, Pa. 15230 Order No. 546-CCK-178-358-BN  
Name and Address

3. Owner Carolina Power & Light Company, Shearon Harris Nuclear Power Plant #2  
Name and Address

4. Location of Plant Bonsal, North Carolina

5. Valve Identification 6RV88MSB Serial No. N56964-00-0052 Drawing No. DS-C-56964 Rev. C

Type Safety Orifice Size 2.154<sup>M</sup> Pipe Size - Inlet 6 Outlet 6  
Safety Safety Relief Pilot Power Actuated Inch Inch Inch Inch

6. Set Pressure (PSIG) 2485 650<sup>O</sup>  
Rated Temperature

Stamped Capacity 420006 Lbs/Hr. 3 % Overpressure 5% Blowdown (PSIG) 125

Hydrostatic Test (PSIG) Inlet 4575 Complete Valve 750 psig.

7. The material, design, construction and workmanship comply with ASME Code, Section III

Class I Edition 1971, Addenda Date Winter 1972, Case No. -

Pressure Containing or Pressure Retaining Components

	Serial No. Identification	Material Specification (including Type or Grade)
a. Bar Stock & Forgings		
Body	<u>N90490-33-0048</u>	<u>ASTM-A182-71 Type F-316</u> <u>ASME-SA182 Type F-316</u>
Bonnet	<u>N90333-38-0086</u>	<u>ASTM-SA103-71 Gr. 2</u> <u>ASME-SA103 Gr. 2</u>
b.		
Support Rods	<u>N90555-36-0059</u>	<u>ASTM-A182-71 Type F-316</u> <u>ASME-SA182 Type F-316</u>
Nozzle	<u>N90553-32-0038</u>	<u>ASTM-A637-70 Gr. 718</u> <u>ASME-SA637 Gr. 718</u>
Disc Holder	<u>K57220-32-0050</u>	<u>ASTM-A105-71 Gr. 2</u> <u>ASME-SA105 Gr. 2</u>
Spring Washers	<u>K56380-42-0092</u>	<u>ASTM-A193-71 Gr. B6</u> <u>ASME-SA193 Gr. B6</u>
Adjusting Bolt	<u>N90351-41-0101</u>	<u>ASTM-A193-71 Gr. B6</u> <u>ASME-SA193 Gr. B6</u>
Spindle	<u>K36381-40-0103</u>	<u>ASTM-A193-71 Gr. B6</u> <u>ASME-SA193 Gr. B6</u>
Disc Insert	<u>N90349-44-0053</u>	<u>Haynes Stellite No. 6B</u>
Spindle Ball	<u>N90355-0103</u>	<u>ASTM-A276-73 Type 440-C</u> <u>ASME-SA276 Type 440-C</u>

3-3 0/1

	Serial No. or Identification	Material Specification Including Type or Grade
c. Spring	<u>NX-2761-0089</u>	<u>ASTM-A304- Gr. 51B60H</u>
d. Belting		
e. Other Parts such as Pilot Components		
Bonnet Stud	<u>100987</u>	<u>ASTM-A453-70 Gr. 660</u> <u>ASME-SA453 Gr. 660</u>
Bonnet Stud Nut	<u>89997</u>	<u>ASTM-A193-71 Gr. B6</u> <u>ASME-SA193 Gr. B6</u>
Inlet Stud	<u>N90488-0717-thru 0728</u>	<u>ASTM-A453-70 Gr. 660</u> <u>ASME-SA453 Gr. 660</u>
Inlet Stud Nut	<u>N90489-0717 thru 0728</u>	<u>ASTM-A193-71 Gr. B6</u> <u>ASME-SA193 Gr. B6</u>

We certify that the statements made in this report are correct.

Date 5-18 1976 Signed Crosby Valve & Gage Co. By [Signature]  
Manufacturer

Certificate of Authorization No. 926 expires October 28, 1977

**CERTIFICATE OF SHOP INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Mass and employed by Factory Mutual Systems\*, Norwood, Mass. have inspected the equipment described in this Data Report on \_\_\_\_\_ 19\_\_\_\_ and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Section III

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 5/19/76 in \_\_\_\_\_  
[Signature] Commissions 1187325  
Inspector National Board, State, Province and Territory

\*Arkwright-Boston Manufacturers Mutual Insurance Company - Mutual Boiler & Machinery Division.

35041

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS  
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 12/14/95  
Name  
P.O. Box 1551, Raleigh, N. C. 27602-1551 Address Sheet 1 of 1
2. Plant Shearon Harris Nuclear Power Plant Unit 1  
Name  
P.O. Box 165, New Hill, N. C. 27562-0165 Address  
WR&A 94-AHHW1(ESR 95-00196) Repair Organization P.O. No., Job No., etc.
3. Work Performed by Carolina Power and Light Company Type Code Symbol Stamp N/A  
Name  
New Hill, N.C. 27562-0165 Address Authorization No. N/A  
Expiration Date N/A
4. Identification of System Chemical and Volume Control (2060)
5. (a) Applicable Construction Code ASME Sect. III 1974 Edition, Winter 1976 Addenda, \_\_\_\_\_ Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda s 1983
6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Reg. Valve Trim Set Plug	Copes-Vulcan, Inc. (Cartech)	3010 (Plug S/N)	453 (Vlv. NB#)	1CS-231 2CS-F524SN-1	1975	Replaced	Yes
Trim Set Plug	Copes-Vulcan, Inc.	Ht# 32626	N/A	Part# 344727 (Plug Manf Part#)	1996	Replacement	No

7. Description of Work Replaced trim set to improve flow control characteristics. Valve plug replaced as part of trim set.
8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

Remarks See attached manufacturer's data report and certificate of conformance. Inservice leak test performed using FST-201, which  
Applicable Manufacturer's Data Reports to be attached  
is filed with associated WR&A and ESR 95-00196 data package. The plug of the subject valve was listed as a pressure boundary  
part by the valve manufacturer's data report, NPV-1.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the  
ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed Frank A. Popen for WAS ECCS Supervisor Date 12/15, 19 95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the  
State or Province of North Carolina and employed by The Hartford Steam Boiler and Insurance Company of  
One State Street, Hartford, Connecticut 06102 have inspected the components described  
in this Owner's Report during the period 05/13/94 to 10/12/95, and state that  
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the  
examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer  
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with  
this inspection.

Elyas B. Dayton Commissions NC 1042  
Inspector's Signature National Board, State, Province, and Endorsements

Date 12-15 19 95



(C-OF-C:\CERTS)



# COPES-VULCAN, INC.

P.O. BOX 511 • LAKE CITY, PENNSYLVANIA 16423-0577 • PHONE (814) 774-1500 • FAX (814) 774-1682

DATE: February 9, 1994 (Revised 2/21/94)

CV JOB # 9321-96337 (Ref. 7310-95280)

CUSTOMER ORDER # 7J5208CJ

## CERTIFICATE OF CONFORMANCE

This is to certify that the items listed below were manufactured to the approved drawings and specifications of the referenced purchase order. Items supplied are certified to be interchangeable with prior drawing or part number revision as to fit, function and materials, and any known changes in these characteristics have been reviewed and approved by the responsible Engineering design function to assure that interchangeability has been maintained considering original purchase order and specifications as applicable.

REF: Old Ass'y Dwg. D-169450  
 New Ass'y Dwg. E-345338  
 ID # 3RA78DG  
 Tag # FCV-122  
 S/N: 7310-95282-219-1

J.R. Scarpelli  
 Director Quality Assurance

ITEMS #	PART # (DWG)	HEAT #	DESCRIPTION	QTY.
1-1	3" Trim Set Consisting of:			
	265699	N/A	Packing	2
	328873	N/A	Gasket	1
	262065	N/A	Upper Trim Gasket	1
	264263	N/A	Lower Trim Gasket	1
	096227	N/A	Roll Pin	1
	294279	700737	Stem (94-1)	1
	344640	N/A	Cage Spacer	1
	344727	32626	Plug (94-1)	1
	344719	502275	Cylinder Ass'y (94-1)	1
	344718	23736	Seat Ring (94-1)	1

FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES

As Required by the Provisions of the ASME Code Rules

1 Manufactured by Copes-Vulcan, Inc., Lake City, PA Order No. 7310-95 282  
(Name & Address of Manufacturer) 16423

2 Manufactured for Westinghouse Electric Corp.  
Nuclear Energy Systems, Pitts, Pa. Order No. 546-CCP-183 622  
(Name and Address) 15230

3 Owner Carolina Power & Light Company Unit #1

4 Location of Plant Bonsal, North Carolina

5 Pump or Valve Identification WNES I.D. # 3RA78DG CVI S/N 7310-95 282-219-x-1

6 1500# (Charging Pump Outlet Regulating Valve)  
(Brief description of service for which equipment was designed)

7 (a) Drawing No. D-169450, Rev. 3 Prepared by Copes-Vulcan, Inc.

(b) National Board No. 453

8 Design Conditions 2735 (Pressure) 200 (Temperature)

9 The material, design, construction, and workmanship complies with ASME Code Section III Class 2

10 Issue 1971 Addenda Date Summer, 1972 Case No. 1649

Mark No.	Material Sprr. No.	Manufacturer	Remarks
<b>Castings</b>			
<b>Forgings</b>			
Body S/N 7169	ASME-SA182	McWilliams	GR F316
Bonnet S/N 7308	ASME-SA182	McWilliams	GR F316

*W*  
*06/26*  
*8/21/76*  
*pages 1-20*

*Ⓟ*

(C-OF-C:\CERTS)



# COPES-VULCAN, INC.

P.O. BOX 677 • LAKE CITY, PENNSYLVANIA 16423-0577 • PHONE (814) 774-1500 • FAX (814) 774-1682

DATE: February 9, 1994 (Revised 2/21/94)

CV JOB # 9321-96337 (Ref. 7310-95280)

CUSTOMER ORDER # 7J5208CJ

## CERTIFICATE OF CONFORMANCE

This is to certify that the items listed below were manufactured to the approved drawings and specifications of the referenced purchase order. Items supplied are certified to be interchangeable with prior drawing or part number revision as to fit, function and materials, and any known changes in these characteristics have been reviewed and approved by the responsible Engineering design function to assure that interchangeability has been maintained considering original purchase order and specifications as applicable.

REF: Old Ass'y Dwg. D-169450  
 New Ass'y Dwg. E-345338  
 ID # 3RA78DG  
 Tag # FCV-122  
 S/N: 7310-95282-219-1

J.R. Scarpelli  
 Director Quality Assurance

<u>ITEMS #</u>	<u>PART # (DWG)</u>	<u>HEAT #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
1-1	3" Trim Set Consisting of:			
	265699	N/A	Packing	2
	328873	N/A	Gasket	1
	262065	N/A	Upper Trim Gasket	1
	264263	N/A	Lower Trim Gasket	1
	096227	N/A	Roll Pin	1
	294279	700737	Stem (94-1)	1
	344640	N/A	Cage Spacer	1
	344727	32626	Plug (94-1)	1
	344719	502275	Cylinder Ass'y (94-1)	1
	344718	23736	Seat Ring (94-1)	1

**FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES**  
 As Required by the Provisions of the ASME Code Rules

Manufactured by Copes-Vulcan, Inc., Lake City, PA Order No. 7310-95 282  
(Name & Address of Manufacturer) 16423

Manufactured for Westinghouse Electric Corp.  
Nuclear Energy Systems, Pitts, Pa. Order No. 546-CCP-183 622  
(Name and Address) 15230

Owner Carolina Power & Light Company Unit #1

Location of Plant Bonsal, North Carolina

Pump or Valve Identification WNES I.D. # 3BA78DG CVI S/N 7310-95 282-219-x-1  
1" 1500# (Charging Pump Outlet Regulating Valve)  
(Brief description of service for which equipment was designed)


(a) Drawing No. D-169450, Rev. 3 Prepared by Copes-Vulcan, Inc.  
 (b) National Board No. 453

Design Conditions 2735 psi 200 °F  
(Pressure) (Temperature)

The material, design, construction, and workmanship complies with ASME Code Section III Class 2

Year 1971 Addenda Date Summer, 1972 Case No. 1649

Mark No.	Material Spec. No.	Manufacturer	Remarks
<i>Castings</i>			
<i>Forgings</i>			
Body S/N 7169	ASME-SA182	McWilliams	GR F316
Bonnet S/N 7308	ASME-SA182	McWilliams	GR F316

*w*  
*06/26*  
*8/27 pages 1-20*  


FHM NPA-1 - (Check)

Mark No.	Material Spec. No.	Manufacturer	Remarks
Rolling			
Studs S/N Lot K	ASME-SA453	Cartech	GR. 660
Nuts S/N Lot I	ASME-SA193	Erie Fastener	GR. B6
Other Parts			
Plug S/N 3010	ASME-SA564	Cartech	GR. 630

Hydrostatic Test 5400 CVI S/N 7310-95282-219-x-1

CERTIFICATION OF DESIGN

Design information on file at Westinghouse Electric Corp., Nuclear Energy System  
 Stress analysis report on file at Not Applicable  
 Design specifications certified by F.K. Deluse (I) Prof. Eng. ME State PA Reg. No. 17128-E  
 Stress analysis reports certified by Not Applicable (I) Prof. Eng. \_\_\_\_\_ State \_\_\_\_\_ Reg. No. \_\_\_\_\_

We certify that the statements made in this report are correct  
16 December 19 75 signed Copes-Vulcan, Inc. J. A. Luthkeisen  
 Manufacturer  
 Certificate of Authorization No. N-826 expires June 17, 1977

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State  
 of Penna. and employed by Protection Mutual Ins. Co. of  
Park Ridge, Ill. have inspected the equipment described in this data  
 report on 12-16 19 75 and state that to the best of my knowledge and belief, the manufacturer has constructed  
 this equipment in accordance with the applicable sections of ASME Section III.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment  
 described in this data report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or  
 property damage or a loss of any kind arising from or connected with this inspection.

Date 12-17 19 75  
G. A. Lumbke (Inspector) Commission Natl. Bd # 3275  
 (National Board, State, Province and No.)

(2)

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 12/28/95  
Name  
P.O. Box 1551, Raleigh, N. C. 27602-1551 Address Sheet 1 of 1
2. Plant Shearon Harris Nuclear Power Plant Unit 1  
Name  
P.O. Box 165, New Hill, N. C. 27562-0165 Address WR&A 94-AIT01  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Carolina Power and Light Company Type Code Symbol Stamp N/A  
Name  
New Hill, N.C. 27562-0165 Address Authorization No. N/A  
Expiration Date N/A
4. Identification of System Steam Generator (3005)
5. (a) Applicable Construction Code ASME Sect. III 1974 Edition, Winter 1976 Addenda, \_\_\_\_\_ Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983
6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Hex Capscrew 1 1/4" X 5"	Westinghouse	N/A	N/A	Part# 723-482-04 PO# 195966	Unknown	Replacement	No

7. Description of Work Replaced 2 capscrews(#2 & 17) on S/G Secondary Manway A2.
8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks In lieu of a Certificate of Conformance, a Certified Test Report, a CP&L QA Report, and a copy of the Supply  
Applicable Manufacturer's Data Reports to be attached  
Inventory System Stock Issue Audit Trail is provided tracing the noted parts to the associated PO. The subject S/G Secondary was  
was pressurized to its nominal operating pressure and examined during a Class 1 System Leakage Test during startup from RFO6.  
During the Class 1 SLT the S/G, its associated access closures, and other secondary systems are examined for leakage.  
Documentation of the leak integrity of the work noted in item 7, above, may be found in the Class 1 System Leakage Test which was  
documented using EST-201, completed 10/8/95 and filed with completed plant procedures. No reports of S/G leakage were noted at  
that time.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the  
repair or replacement  
 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed W. Slouen ECCS Supervisor Date 2 January, 19 96  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the  
 State or Province of North Carolina and employed by The Hartford Steam Boiler and Insurance Company of  
One State Street, Hartford, Connecticut 06102 have inspected the components described  
 in this Owner's Report during the period 05/13/94 to 10/12/95, and state that  
 to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
 Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the  
 examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer  
 shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with  
 this inspection,

Edgar B. Doyton Commissions NC 1042  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 1-2 19 96

LARGE  
FASTENERS

# CERTIFIED TEST REPORT

**JOS. DYSON & SONS INC.**

53 FREEDOM RD., PAINESVILLE, OHIO 44077

PHONE: Area Code 216 352-4421

TABLE: JOSDYSON

To: [ Westinghouse Electric Corporation  
Tampa Division  
P. O. Box 19218  
Tampa, Florida 33616 ]

DATE SHIPPED	DYSON ORDER NUMBER	CUSTOMER ORDER NUMBER
11/19/74	M-1734-1	545-S20034-26

**T04579**

Description: Item #1: ~~357~~ Pieces, 1-1/4 - 8 x 5" Secondary Manway Bolt  
Drawing #651B293, Item #3, Rev. 6

Iw 95966  
Iw JT 9079  
546-195966

Specification: ASME SA193B7 and Westinghouse Specification #2655A05

Item	Heat	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V		#5
1	6501	.38	.91	.009	.026	.30			5.95	2.2			
2													
3													

## MECHANICAL PROPERTIES

Item	TENSILE STRENGTH PSI	YIELD PSI	ELONG.		PER CENT RED. AREA	HARDNESS	BEND TEST	G/S	MIN. TEMP.
			PERCENT IN 2"						
1	132,750	118,000	21.0%		61.8%	29/30			1100°F
2									
3									

## ADDITIONAL SPECIFICATION REQUIREMENTS OR SPECIAL TESTS

Charpy V-Notch Impact Strength +40°F  
(Ft.-Lb.)

Lateral Expansion (In.)

Ductile Fracture Area (%)

98.0  
114.0  
105.0

.062  
.071  
.065

100%  
100%  
100%

Ave. 105.5

100% Magnetic Particle Inspection: Acceptable to NB2583

Stamping: Round Nose Continuous

Traceability Code: C21 for Heat #6501

Copy sent to Metallurgy

Date DEC 4 1974

NOV 26 1974

Item #1 of Westinghouse P.O. #545-S-20034-26 meets all requirements of SA193B7 and Specification #2655A05

THE ABOVE TESTS CONFORM TO THE REQUIREMENTS OF THE SPECIFICATIONS LISTED  
THIS CERTIFICATE NOTARIZED ONLY WHEN REQUIRED

I, Hattie L. Huff, a Notary Public do hereby certify that this affidavit was subscribed and sworn to before me by a duly authorized agent of Jos. Dyson & Sons, Inc., this 19th day of November, 1974.

We hereby certify that the foregoing data is a true copy of the data furnished us by the producing mill or the data resulting from tests performed in the Dyson Laboratory.

JOS. DYSON & SONS, INC.

HATTIE L. HUFF, Notary Public

My Commission Expires June 10, 1977

NOTARY PUBLIC

195966-1-6

BY \_\_\_\_\_ AUTHORIZED AGENT

FORM NO. 115-P REV. 7



CAROLINA POWER & LIGHT COMPANY  
CORPORATE QUALITY ASSURANCE DEPARTMENT  
QA/QC FIELD REPORT

Date: 7-19-87  
Page 1 of 1  
Report No. \_\_\_\_\_

Subjct./System	Area/Location/Elevation	Reference Document(s)
Spare Parts	N/A	CQC - B

Inspection Details:

Item Name/Description	Code Class	Quantity	Quality Assurance No. Purchase Order & Item No.
1 No. (8) 1/2" x 5" HEX SCREEN CAP SECONDARY MAINWAY CLOSURE BOLT	P	6	QA - 723-482-DW

Tag No. n/a  
Serial No. S-2-034  
National Id. No. n/a

Damage	<u>n/a</u>	Inert Gas Blanket	<u>n/a</u>
Identification and Marking	<u>sat</u>	Desiccant	<u>n/a</u>
Coatings and Preservatives	<u>n/a</u>	Cleaness	<u>sat</u>
Protective Covers and Seals	<u>sat</u>	Electrical Insulation	<u>n/a</u>

QA Status In Effect  
 QA Status Tagged

Remarks: MATERIAL ORIGINALLY SUPPLIED ON NEGOTIATION  
P.O. 145966.

[Signature] 7-19-87  
QA/QC Inspector Date  
[Signature] 7/23/87  
QA/QC Specialist Date

File: \_\_\_\_\_

\* SIS \* STOCK ISSUE INQUIRY AUDIT TRAIL

PART INFORMATION

JUR PART NO. 723-482-04 MFG PART NO. S-20034  
ORD: SCREW CAP INVENTORY CLASS 1 R/P P

EXTENDED DESCRIPTION:

SCREW,CAP,HEX,1-1/4-8X5",C,GR B7 SOLE SOURCE  
SECONDARY MANWAY CLOSURE BOLT CARBON WESTINGHOUSE UNIT WT  
P.O. #546-CXD-195966, ITEM #5, SPIN #RCPCSG. BIN 2CC5A2

REQUISITION (RQ) / RESERVATION (RS) AUTH FJW

REQUISITIONER FJW-WARD DELIVER TO DATE REQUIRED 00 00 00  
PO NUMBER 195966 HEAT NUMBER N/A WO 94-AITQ1 JOB  
CHG TO IAA CHG BY H17 ACT N0104 PROJ A0000016 PHYSID 318  
ISSUE REQ. NUMBER ALHU02 REQ. QTY 0000000003 DELIVER TO WHSE 03

ACTUAL ISSUE BELOW

QTY.ISSUE 0000000003 U/I EA DATE ISSUED 09 13 95 TRAN CD WR TAX JUR WA & D 1.  
ISSUED BY: WHSE 03 AUTHORITY FJW-WARD TAX CD  
QTY RECV'D RECEIVED BY: WHSE 03 DATE RECEIVED  
RECEIVER BIN: 2CC5A2

FUNC KEY 723-482-04 TKEY P NO TNO R WHSE 03

MESSAGES:

B ==

NUM LU #50

C

\*\* S I S \*\* - DISPLAY PARTS

723-482-04      KEYWORD SCREW      CAP      QA APPVD KBE ENG APPVD SRJ  
PART NAME:      SCREW,CAP,HEX,1-1/4-8X5",C,GR B7 REQ DATE      /      /      M/P/D P  
DARY MANWAY CLOSURE BOLT CARBON WESTINGHOUSE      DATE ESTABLISHED 07 19 83  
P.O. #546-CXD-195966, ITEM #5, SPIN #RCPCRG.      BY SEABOCK/KGG INV.TYPE 1  
CHEM. MGMT

VENDR - MFG PART NUMBER      -      MSDS      MAT'L RESP J      STOCK N FAMILY TG00\*  
43878 - S-20034      -      SUB PART  
43878 - 651B293-H03      -      MORE MFG (Y/N)

\*\*\* WAREHOUSE INFORMATION \*\*\* WHSE 03

CHT ACTIVITY      PID #D JUR      REC. VENDOR      SOLE      M/E  
H30 Z25301      31B 1. WA      U/I EA      U/PTY      WHSE DT 07 19 83  
ONHAND QTY 0000000005      PCTYPE      LT 008      WKS  
UNIT COST 000055.0000      SU/ORDER COST 000000.0000  
MIN 0000000002 MAX 0000000006      SPT STK 0000000000  
REVIEW DT      SHELF Y/N/A/R N ABC      MID 01GSMH  
STORAGE B MQC Q      CATG A      CRIT 3 ORDER S R/P/D P      CNTL N RECOVER N      PM H-007-00  
VENDOR INSTR AC      INSPECT REQD A      BIN 2CC5A2      RANGE  
FUNC      KEY 723-482-0-      TKEY P NO      TNO R WHSE 03  
SIS0133: HIT THE ENTER KEY TO DISPLAY COMMENT SCREEN

B ==

NUM LU #50

P

\*\*\* SUPPLY INVENTORY SYSTEM - WAREHOUSE DATA \*\*\*

723-482-04 SCREW,CAP,HEX,1-1/4-8X5",C,GR B7

WHSE 03

\*\*\* DOCUMENTATION CODES \*\*\*

26

\*\* SPEC# \*\*

\*\*\* NAME PLATE DATA \*\*\*

CONSTRUCTION TURNOVER P.O. 162065

ITEMS PROCURED TO P.O. 162065 AND ARE ACCEPTABLE I

N LIEU OF NIRF REQUIREMENTS. FUTURE ORDERS MUST

MEET NIRF REQUIREMENTS.

\*\*\* MISCELLANEOUS COMMENTS \*\*\*

CTO SURPLUS DEPLETED AS OF 12-06-88 PER LML.

20 REQUIRED PER MANWAY

FUTURE ORDERS REQUIRE SPECIFICATION

FUNC KEY 723-482-04

TKEY P NO

TNO R WHSE 03

SIS0017: PLEASE ENTER NEXT FUNCTION, -OR-

SIS0198: HIT THE ENTER KEY TO REDISPLAY FIRST WAREHOUSE

B ==

NUM LU #50

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 12/28/95  
Name  
P.O. Box 1551, Raleigh, N. C. 27602-1551 Sheet 1 of 1  
Address

2. Plant Shearon Harris Nuclear Power Plant Unit 1  
Name  
P.O. Box 165, New Hill, N. C. 27562-0165 WR&A 94-AITS1  
Address Repair Organization P.O. No., Job No., etc.

3. Work Performed by Carolina Power and Light Company Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
New Hill, N.C. 27562-0165 Expiration Date N/A  
Address

4. Identification of System Steam Generator (3005)

5. (a) Applicable Construction Code ASME Sect. III 1974 Edition, Winter 1976 Addenda, \_\_\_\_\_ Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Hex Capscrew 1 1/8 X 5"	Westinghouse	N/A	N/A	Part# 723-482-04 PO# 162065	Unknown	Replacement	No

7. Description of Work Replaced capscrews (#4 & 11) on S/G Secondary Manway B1 and capscrews (#7 and 13) on S/G Secondary Manway B2.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks In lieu of a Certificate of Conformance or Manufacturer's Data Report, a Receipt Inspection Report and a copy of the Supply  
Applicable Manufacturer's Data Reports to be attached  
Inventory System Stock Issue Audit Trail is provided. The subject S/G Secondary was pressurized to its nominal operating pressure  
and examined during the Class 1 System Leakage Test during startup from RFO6. During the Class 1 SLT the S/G, its associated  
access closures, and other secondary systems are examined for leakage. Documentation of the leak integrity of the work noted in  
item 7, above, may be found in the Class 1 System Leakage Test which was documented using EST-201, completed 10/8/95  
and filed with completed plant procedures. No reports of S/G leakage were noted at that time.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the  
ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed W. Slaven ECCS Supervisor Date 2 January, 19 96  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the  
State or Province of North Carolina and employed by The Hartford Steam Boiler and Insurance Company of  
One State Street, Hartford, Connecticut 06102 have inspected the components described  
in this Owner's Report during the period 05/13/96 to 10/12/96, and state that  
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the  
examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer  
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with  
this inspection,

Colgar B. Doughton Commissions NC 1042  
Inspector's Signature National Board, State, Province, and Endorsements

Date 2 JAN 19 96

CAROLINA POWER & LIGHT COMPANY  
RECEIVING INSPECTION REPORT (RIR)

OQA-402  
 Enclosure 1  
 Revision 0  
 Page 14 of 20

I. No: NA Vendor/ASL  
 PO: 83-162865 QA Class:  Q  RWQ  
 FPQ  Other

Qty	Acc	Rej	Description & ID No.	Documentation	ID & Markings	Gas Blankets	Desiccant	Physical Damage	Cleanliness	Workmanship	Lubricants & Oils	Coatings & Pres.	Dimensions	Weld Preparation	Elec. Insulation	Covers & Seals
20 ea	20 ea	NA	Hot Sep. Sample 823-482-04	NA	A	NA	NA	A	A	A	NA	NA	NA	NA	NA	NA

A - Accept \* - Reject

OTHER INSPECTIONS PERFORMED: NA

INSPECTED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

NONCONFORMANCE/REMARKS: Construction turnover.

Inspected per OQA-402  
 Sampling Plan Sample: 5 ea

INSPECTED BY: William Alan ... 12-1-88 R. Lee Hunt 12/15/88  
 Receipt Inspector Date QA/QC Specialist Date

II.

Item	Qty	Acc	Rej	Corrective Action/Disposition Details

Completed by  
 Receipt Inspector: \_\_\_\_\_ Date \_\_\_\_\_  
 QA/QC Specialist \_\_\_\_\_ Date \_\_\_\_\_

891300845

\* SIS \* STOCK ISSUE INQUIRY AUDIT TRAIL

PART INFORMATION

JR PART NO. 723-482-04 MFG PART NO. S-20034  
WORD: SCREW CAP INVENTORY CLASS 1 R/P P

EXTENDED DESCRIPTION:

SCREW,CAP,HEX,1-1/4-RX5\*,C,GR B7 SOLE SOURCE  
SECONDARY MANWAY CLOSURE BOLT CARBON WESTINGHOUSE UNIT WT  
P.O. #546-CXD-195966, ITEM #5, SPIN #RCPCSG. BIN 2CC5A2

REQUISITION (RQ) / RESERVATION (RS) AUTH SBJ

REQUISITIONER SBJ-SEARS DELIVER TO DATE REQUIRED 00 00 00  
PO NUMBER 162065 HEAT NUMBER NA WO 94-AITS1 JOB  
CHG TO IAA CHG BY H17 ACT N0104 PROJ A0000016 PHYSID 31B  
ISSUE REQ. NUMBER ALFE98 REQ. QTY 0000000004 DELIVER TO WHSE 03

ACTUAL ISSUE BELOW

QTY.ISSUE 0000000004 U/I EA DATE ISSUED 09 09 95 TRAN CD WR TAX JUR WA #D 1.  
ISSUED BY: WHSE 03 AUTHORITY SBJ-SEARS TAX CD  
QTY REC'D RECEIVED BY: WHSE 03 DATE RECEIVED  
RECEIVER BIN: 2CC5A2

FUNC KEY 723-482-04 TKEY P NO TNO R WHSE 03  
MESSAGES;

B \*\*\*

NUM LU #50



\* SIS \* STOCK ISSUE INQUIRY AUDIT TRAIL

PART INFORMATION

OUR PART NO. 723-482-04 MFG PART NO. S-20034  
ORD: SCREW CAP INVENTORY CLASS 1 R/P P

EXTENDED DESCRIPTION:

SCREW,CAP,HEX,1-1/4-8X5",C,GR B7 SOLE SOURCE  
SECONDARY MANWAY CLOSURE BOLT CARBON WESTINGHOUSE UNIT WT  
P.O. #546-CXD-195966, ITEM #5, SPIN #RCPCSG. BIN 2CC5A2

REQUISITION (RQ) / RESERVATION (RS) AUTH SBJ

REQUISITIONER SBJ-EADDY DELIVER TO DATE REQUIRED 00 00 00  
PO NUMBER 162065 HEAT NUMBER NA WO 94-AITS1 JOB  
CHG TO IAA CHG BY M17 ACT N0104 PROJ A0000016 PHYSID 31B  
ISSUE REQ. NUMBER ALFF62 REQ. QTY 0000000001 DELIVER TO WHSE 03

ACTUAL ISSUE BELOW

QTY.ISSUE 0000000001 U/I EA DATE ISSUED 09 09 95 TRAN CD WR TAX JUR WA #D 1.  
ISSUED BY: WHSE 03 AUTHORITY SBJ-EADDY TAX CD  
QTY REC'D RECEIVED BY: WHSE 03 DATE RECEIVED  
RECEIVER BIN: 2CC5A2

FUNC KEY 723-482-04 TKEY P NO TNO R WHSE 03  
MESSAGES;

B NUM LU #50

\* SIS \* STOCK ISSUE INQUIRY AUDIT TRAIL

PART INFORMATION

UR PART NO. 723-482-04    MPG PART NO. S-20034

WORD: SCREW                  CAP    INVENTORY CLASS 1    R/P P

EXTENDED DESCRIPTION:

SCREW,CAP,HEX,1-1/4-8X5",C,GR B7    SOLE SOURCE  
SECONDARY MANWAY CLOSURE BOLT CARBON WESTINGHOUSE UNIT WT  
P.O. #546-CXD-195966, ITEM #5, SPIN #RCPCSG.    BIN 2CC5A2

REQUISITION (RQ) / RESERVATION (RS)    AUTH SBJ

REQUISITIONER SBJ-EADDY    DELIVER TO    DATE REQUIRED    00 00 00  
PO NUMBER 162065 HEAT NUMBER NA    WO 94-AITS1 JOB  
CHG TO IAA    CHG BY H17    ACT N0104    PROJ A0000016    PHYSID 31B  
ISSUE REQ. NUMBER ALFI18    REQ. QTY 0000000001    DELIVER TO WHSE 03

ACTUAL ISSUE BELOW

QTY.ISSUE 0000000001- U/I EA    DATE ISSUED    09 10 95    TRAN CD    WR    TAX    JUR    WA    &D 1.

ISSUED BY:    WHSE 03    AUTHORITY    ERM-ERM    TAX CD

QTY RECV'D    RECEIVED BY:    WHSE 03    DATE RECEIVED

RECEIVER    BIN: 2CC5A2

PUNC    KEY 723-482-04    TKEY P NO    TWO R WHSE 03

MESSAGES;

C

\*\* S I S \*\* - DISPLAY PARTS

723-482-04 KEYVJRD SCREW CAP QA APPVD KBB ENG APPVD SRJ  
 PART NAME: SCR,W,CAP,HEX,1-1/4-8X5",C,GR B7 REQ DATE / / M/P/D P  
 DARY MANWAY CLOSURE BOLT CARBON WESTINGHOUSE DATE ESTABLISHED 07 19 83  
 P.O. #546-CXD-195966, ITEM #5, SPIN #RCPCSG. BY SEABOCK/KGG INV.TYPE 1  
 CHEM. MGMT

VENDR - MPG PART NUMBER - MSDS MAT'L RESP J STOCK N FAMILY TG00\*  
 43878 - S-20034 - SUB PART  
 43878 - 651B293-H03 - MORE MPG (Y/N)

\*\*\* WAREHOUSE INFORMATION \*\*\* WHSE 03

CHT ACTIVITY PID #D JUR REC. VENDOR SOLE M/E  
 H30 Z25301 31B 1. WA U/I EA U/QTY WHSE DT 07 19 83  
 ONHAND QTY 0000000005 POTYPE LT 003 WKS  
 UNIT COST 000055.0000 SU/ORDER COST 000000.0000  
 MIN 0000000002 MAX 0000000006 SFT STK 0000.00000  
 REVIEW DT SHELF Y/N/A/R H ABC MID '1GSME

STORAGE B MQC Q CATG A CRIT 3 ORDER S R/P/D P CNTL N RECOVER N PM H-007-00

VENDOR INSTR AC INSPECT REQD A BIN 2CC5A2 RANGE

FUNC KEY 723-482-04 TKEY P NO TNO R WHSE 03

SIS0133: HIT THE ENTER KEY TO DISPLAY COMMENT SCREEN

B \*\*\*

NUM LU #50

P \*\*\* SUPPLY INVENTORY SYSTEM - WAREHOUSE DATA \*\*\*

723-482-04 SCREW,CAP,HEX,1-1/4-X5",C,GR B7 WHSE 03

\*\*\* DOCUMENTATION CODES \*\*\*

D26

SPEC# \*\*

\*\*\* NAME PLATE DATA \*\*\*

CONSTRUCTION TURNOVER P.O. 162065

ITEMS PROCURED TO P.O. 162065 AND ARE ACCEPTABLE I

N LIEU OF NIRF REQUIREMENTS. FUTURE ORDERS MUST

MEET NIRF REQUIREMENTS.

\*\*\* MISCELLANEOUS COMMENTS \*\*\*

CTO SURPLUS DEPLETED AS OF 12-06-88 PER LML.

20 REQUIRED PER MANWAY

FUTURE ORDERS REQUIRE SPECIFICATION

FUNC KEY 723-482-04 TKEY P NO TNO R WHSE 03

SIS0017: PLEASE ENTER NEXT FUNCTION, -OR-

SIS0198: HIT THE ENTER KEY TO REDISPLAY FIRST WAREHOUSE

B ==

NDM LU 850

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 01/09/96  
Name  
P.O. Box 1551, Raleigh, N. C. 27602-1551 Sheet 1 of 1  
Address
2. Plant Shearon Harris Nuclear Power Plant Unit 1  
Name  
P.O. Box 165, New Hill, N. C. 27562-0165 WR&A 94-AITT1  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Carolina Power and Light Company Type Code Symbol Stamp N/A  
Name  
New Hill, N.C. 27562-0165 Address Authorization No. N/A  
Address Expiration Date N/A
4. Identification of System Steam Generator (3005)
5. (a) Applicable Construction Code ASME Sect. III 1974 Edition, Winter 1976 Addenda, \_\_\_\_\_ Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983

## 6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Hex Capscrew 1½-8 X 5"	Westinghouse	N/A	N/A	Part# 723-482-04 PO# 195966	Unknown	Replacement	No
Same	Same	N/A	N/A	Part# 723-482-04 PO# 162065	Unknown	Replacement	No

7. Description of Work Replaced capscrews (#5 & 19) on S/G Secondary Manway C-1 and capscrews (#8 & 13) on S/G Secondary Manway C-2.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks In lieu of a Certificate of Conformance or Manufacturer's Data Report, a Certified Test Report, a CP&L QA Report, a Receipt  
Applicable Manufacturer's Data Reports to be attached  
Inspection Report and a copy of the Supply Inventory System Stock Issue Audit Trail is provided. The subject S/G Secondary was  
pressurized to its nominal operating pressure and examined during the Class 1 System Leakage Test during startup from RFO6. During  
the Class 1 SLT the S/G, its associated access closures, and other secondary systems are examined for leakage. Documentation of  
the leak integrity of the work noted in item 7, above, may be found in the Class 1 System Leakage Test which was documented using  
EST-201, completed 10/8/95 and filed with the completed plant procedures. No reports of S/G leakage were noted at that time.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the  
ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed WASlover ECCS Supervisor Date 10 January, 19 96  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the  
State or Province of North Carolina and employed by The Hartford Steam Boiler and Insurance Company of  
One State Street, Hartford, Connecticut 06102 have inspected the components described  
in this Owner's Report during the period 05/13/94 to 10/12/95, and state that  
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the  
examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer  
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with  
this inspection.

Edgar B Dayton Commissions NC 1042  
Inspector's Signature National Board, State, Province, and Endorsements

Date JAN 10 19 96

LARGE  
SIZED FASTENERS

# CERTIFIED TEST REPORT

**JOS. DYSON & SONS INC.**

53 FREEDOM RD., FAINEVILLE, OHIO 44077

TABLE: JOSDYSON

PHONE: Area Code 216 352-4421

To: Westinghouse Electric Corporation  
Tampa Division  
P. O. Box 19218  
Tampa, Florida 33616

DATE SHIPPED	DYSON ORDER NUMBER	CUSTOMER ORDER NUMBER
11/19/74	M-1734-1	545-S20034-26

## T04579 1

Description: Item #1: ~~357~~ Pieces, 1-1/4 - 8 x 5" Secondary Manway Bolt  
357 Drawing #651B293, Item #3, Rev. 6

Iw 95966  
Iw JT 7079  
546-195966

Specification: ASME SA193B7 and Westinghouse Specification #2655A05

Item	Heat	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	
1	6501	.38	.91	.009	.026	.30			.95	.22		#5
2												
3												

### MECHANICAL PROPERTIES

	TENSILE STRENGTH PSI	YIELD PSI	ELONG. PERCENT IN 2"	PER CENT RED. AREA	HARDNESS	BEND TEST	G/S	MIN. TEMP.
1	132,750	118,000	21.0%	61.8%	29730			1100°F
2								
3								

### ADDITIONAL SPECIFICATION REQUIREMENTS OR SPECIAL TESTS

Charpy V-Notch Impact Strength +40°F (Ft.-Lb.)	Lateral Expansion (In.)	Ductile Fracture Area (%)
98.0	.062	100%
114.0	.071	100%
105.0	.065	100%
Ave. 105.5		

100% Magnetic Particle Inspection: Acceptable to NB2583

Stamping: Round Nose Continuous

Traceability Code: C21 for Heat #6501

Copy sent to Metallurgy  
Date DEC 4 1974  
NOV 26 1974

Item #1 of Westinghouse P.O. #545-S-20034-26 meets all requirements of SA193B7 and Specification #2655A05

THE ABOVE TESTS CONFORM TO THE REQUIREMENTS OF THE SPECIFICATIONS LISTED  
THIS CERTIFICATE NOTARIZED ONLY WHEN REQUIRED

I, Hattie L. Huff, a Notary Public do hereby certify that this affidavit was subscribed and sworn to before me by a duly authorized agent of Jos. Dyson & Sons, Inc., this 19th day of November, 1974.

We hereby certify that the foregoing data is a true copy of the data furnished us by the producing mill or the data resulting from tests performed in the Dyson Laboratory.

HATTIE L. HUFF, Notary Public

JOS. DYSON & SONS, INC.

My Commission Expires June 10, 1977

195966-1-6

AUTHORIZED AGENT  
FORM NO. 115-P REV. 2

CAROLINA POWER & LIGHT COMPANY  
CORPORATE QUALITY ASSURANCE DEPARTMENT  
QA/QC FIELD REPORT

Date 7-19-83  
Page 1 of 1  
Report No. \_\_\_\_\_

Subj <sup>r</sup> /System	Area/Location/Elevation	Reference Document(s)
Spare Parts	N/A	CQC - B

Inspection Details:

Item Name/Description	Code Class	Quantity	Quality Assurance No. Purchase Order & Item No.
1 1/4" (8) x 5" HEX SCREEN CAP SECONDARY MAINWAY CLOSURE BOLT	Ø	6	QA - 723-482-04

Tag No. n/a  
Serial No. S-2-034  
National Bd. No. n/a

Damage	<u>n/a</u>	Inert Gas Blanket	<u>n/a</u>
Identification and Marking	<u>sat</u>	Desiccant	<u>n/a</u>
Coatings and Preservatives	<u>n/a</u>	Cleaness	<u>sat</u>
Protective Covers and Seals	<u>sat</u>	Electrical Insulation	<u>n/a</u>

QA Status In Effect  
 QA Status Tagged

Remarks MATERIAL ORIGINALLY SUPPLIED ON NORTHERN POWER CO. 195966.

[Signature] 7-19-83  
QA/QC Inspector Date  
[Signature] 7/27/83  
QA/QC Specialist Date

File: \_\_\_\_\_



\* SIS \* STOCK ISSUE INQUIRY AUDIT TRAIL  
PART INFORMATION

OUR PART NO. 723-482-04 MFG PART NO. S-20034  
WORD: SCREW CAP INVENTORY CLASS 1 R/P P  
EXTENDED DESCRIPTION:  
SCREW,CAP,HEX,1-1/4-8X5",C,GR B7 SOLE SOURCE  
SECONDARY MANWAY CLOSURE BOLT CARBON WESTINGHOUSE UNIT WT  
P.O. #546-CXD-195966, ITEM #5, SPIN #RCPCSG. BIN 2CC5A2

REQUISITION (RQ) / RESERVATION (RS) AUTH GSM  
REQUISITIONER GSM-HESS DELIVER TO DATE REQUIRED 00 00 00  
PO NUMBER 195966 HEAT NUMBER N/A WO 94-AITT1 JOB  
CHG TO IAA CHG BY H17 ACT N0104 PROJ A0000016 PHYSID 31B  
ISSUE REQ. NUMBER ALGR92 REQ. QTY 0000000002 DELIVER TO WHSE 03  
ACTUAL ISSUE BELOW  
QTY.ISSUE 0000000002 U/I EA DATE ISSUED 09 12 95 TRAN CD WR TAX JUR WA %D 1.  
ISSUED BY: WHSE 03 AUTHORITY GSM-HESS TAX CD  
QTY RECV'D RECEIVED BY: WHSE 03 DATE RECEIVED  
RECEIVER BIN: 2CC5A2

FUNC KEY 723-482-04 TKEY P NO TNO R WHSE 03  
MESSAGES;

B == NUM LU #50

CAROLINA POWER & LIGHT COMPANY  
RECEIVING INSPECTION REPORT (RIR)

OQA-402  
Enclosure 1  
Revision 0  
Page 14 of 20

I. No: N/A Vendor/ASL: \_\_\_\_\_  
 PO: 12-162865 QA Class:  Q  RWQ  
 FPQ  Other \_\_\_\_\_

Qty	Acc	Rej	Description & ID No.	Documentation	ID & Markings	Gas Blankets	Dessicant	Physical Damage	Cleanliness	Workmanship	Lubricants & Oils	Coatings & Pres.	Dimensions	Weld Preparation	Elec. Insulation	Covers & Seals
<u>200 ea</u>	<u>200 ea</u>	<u>N/A</u>	<u>Hex Cap Screws 733-482-04</u>	<u>N/A</u>	<u>A</u>	<u>N/A</u>	<u>N/A</u>	<u>A</u>	<u>A</u>	<u>A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>

A - Accept \* - Reject

OTHER INSPECTIONS PERFORMED: N/A

INSPECTED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

NONCONFORMANCE/REMARKS: Construction turnover.  
 Inspected per OQA-402  
 Sampling Plan Sample: 5 ea

INSPECTED BY: William Alexander Brantley  
 Receipt Inspector

12/16/88  
Date

R. Lee Hunt  
QA/QC Specialist

12/15/88  
Date

II.

Item	Qty	Acc	Rej	Corrective Action/Disposition Details

Completed by  
 Receipt Inspector: \_\_\_\_\_ Date: \_\_\_\_\_  
 QA/QC Specialist: \_\_\_\_\_ Date: \_\_\_\_\_

891300845

\* SIS \* STOCK ISSUE INQUIRY AUDIT TRAIL

PART INFORMATION

OUR PART NO. 723-482-04 MFG PART NO. S-20034  
KEY WORD: SCREW CAP INVENTORY CLASS 1 R/P P

EXTENDED DESCRIPTION:

SCREW, CAP, HEX, 1-1/4-8X5", C, GR B7 SOLE SOURCE  
SECONDARY MANWAY CLOSURE BOLT CARBON WESTINGHOUSE UNIT WT  
P.O. #546-CXD-195966, ITEM #5, SPIN #RCPCSG. BIN 2CC5A2

REQUISITION (RQ) / RESERVATION (RS) AUTH GSM

REQUISITIONER GSM-HESS DELIVER TO DATE REQUIRED 00 00 00  
PO NUMBER 162065 HEAT NUMBER N/A WO 94-AITT1 JOB  
CHG TO IAA CHG BY H17 ACT N0104 PROJ A0000016 PHYSID 31B  
ISSUE REQ. NUMBER ALGR90 REQ. QTY 0000000002 DELIVER TO WHSE 03

ACTUAL ISSUE BELOW

QTY.ISSUE 0000000002 U/I EA DATE ISSUED 09 12 95 TRAN CD WR TAX JUR WA %D 1.  
ISSUED BY: WHSE 03 AUTHORITY GSM-HESS TAX CD  
QTY RECV'D RECEIVED BY: WHSE 03 DATE RECEIVED  
RECEIVER BIN: 2CC5A2

FUNC KEY 723-482-04  
MESSAGES;

TKEY P NO

TNO R WHSE 03

B ==

NUM LU #50

\*\* S I S \*\* - DISPLAY PARTS

C  
723-482-04 KEYWORD SCREW CAP QA APPVD KBB ENG APPVD SRJ  
PART NAME: SCREW,CAP,HEX,1-1/4-8X5",C,GR B7 REQ DATE / / M/P/D P  
SECONDARY MANWAY CLOSURE BOLT CARBON WESTINGHOUSE DATE ESTABLISHED 07 19 83  
P.O. #546-CXD-195966, ITEM #5, SPIN #RCPCSG. BY SEABOCK/KGG INV.TYPE 1  
CHEM. MGMT

VENDR - MFG PART NUMBER - MSDS MAT'L RESP J STOCK N FAMILY TG00\*  
43878 - S-20034 - SUB PART  
43878 - 651B293-H03 - MORE MFG (Y/N)

\*\*\* WAREHOUSE INFORMATION \*\*\* WHSE 03  
CHT ACTIVITY PID %D JUR REC. VENDOR SOLE M/E  
H30 ZZ5301 31B 1. WA U/I EA U/QTY WHSE DT 07 19 83  
ONHAND QTY 0000000005 POTYPE LT 008 WKS  
UNIT COST 000055.0000 SU/ORDER COST 000000.0000  
MIN 0000000002 MAX 0000000006 SFT STK 0000000000  
REVIEW DT SHELF Y/N/A/R N ABC MID 01GSME  
STORAGE B MQC Q CATG A CRIT 3 ORDER S R/P/D P CNTL N RECOVER N PM H-007-00  
VENDOR INSTR AC INSPECT REQD A BIN 2CC5A2 RANGE  
FUNC KEY 723-482-04 TKEY P NO TNO R WHSE 03  
SIS0133: HIT THE ENTER KEY TO DISPLAY COMMENT SCREEN

B == NUM LU #50

P \*\*\* SUPPLY INVENTORY SYSTEM - WAREHOUSE DATA \*\*\*  
723-482-04 SCREW,CAP,HEX,1-1/4-8X5",C,GR B7 WHSE 03

\*\*\* DOCUMENTATION CODES \*\*\*  
2 D26  
\*\* SPEC# \*\*

\*\*\* NAME PLATE DATA \*\*\*  
CONSTRUCTION TURNOVER P.O. 162065  
ITEMS PROCURED TO P.O. 162065 AND ARE ACCEPTABLE I  
N LIEU OF NIRF REQUIREMENTS. FUTURE ORDERS MUST  
MEET NIRF REQUIREMENTS.

\*\*\* MISCELLANEOUS COMMENTS \*\*\*  
CTO SURPLUS DEPLETED AS OF 12-06-88 PER LML.  
20 REQUIRED PER MANWAY  
FUTURE ORDERS REQUIRE SPECIFICATION

FUNC KEY 723-482-04 TKEY P NO TNO R WHSE 03  
SIS0017: PLEASE ENTER NEXT FUNCTION, -OR-  
SIS0198: HIT THE ENTER KEY TO REDISPLAY FIRST WAREHOUSE

B == NUM LU #50

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 12/20/95  
Name \_\_\_\_\_  
P.O. Box 1551, Raleigh, N. C. 27602-1551 Sheet 1 of 1  
Address \_\_\_\_\_
2. Plant Shearon Harris Nuclear Power Plant Unit 1  
Name \_\_\_\_\_  
P.O. Box 165, New Hill, N. C. 27562-0165 WR&A 94-AJAB1  
Address \_\_\_\_\_ Repair Organization P.O. No., Job No., etc. \_\_\_\_\_
3. Work Performed by Carolina Power and Light Company Type Code Symbol Stamp N/A  
Name \_\_\_\_\_ Authorization No. N/A  
New Hill, N.C. 27562-0165 Address \_\_\_\_\_ Expiration Date N/A  
Address \_\_\_\_\_
4. Identification of System Chemical and Volume Control (2060)
5. (a) Applicable Construction Code ASME Sect. III 1974 Edition, Winter 1976 Addenda, \_\_\_\_\_ Code Case \_\_\_\_\_  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983
6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Globe Valve	Kerotest Mfg. Corp.	WP1-8	24775	1CS-750 2CS-V750SN-1	1979	Replaced	Yes
Globe Valve	Kerotest Mfg. Corp.	RS6-13	21,848	Same	1978	Replacement	Yes
Pipe 2" nps	Dubose National Energy Services	Ht# 474900	N/A	Part# 738-803-61 PO# 707963	1994	Replacement	No

7. Description of Work Replace valve leaking by its seat and portion of associated piping to facilitate reinstallation.
8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
Other  Pressure 3120 psi Test Temp. 74 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

Remarks See attached manufacturer's data reports and certificate of conformance. Pressure test (hydro) performed using  
Applicable Manufacturer's Date Reports to be attached  
MMP-012, filed with WR&A 94-AMGA1.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the  
repair or replacement  
ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed <sup>PCS</sup> A M Worth for WAS ECCS Supervisor Date 12/20, 19 95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the  
State or Province of North Carolina and employed by The Hartford Steam Boiler and Insurance Company of  
One State Street, Hartford, Connecticut 06102 have inspected the components described  
in this Owner's Report during the period 05/13/94 to 10/12/95, and state that  
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the  
examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer  
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with  
this inspection.

Elgar B Dwyer Commissions NC 1042  
Inspector's Signature National Board, State, Province, and Endorsements  
Date Dec 28 19 95



Part No.	Material Spec. No.	Manufacturer	Remarks
(d) Other Parts			
Disc-9909-9-(1)Z	SA479, Type 316	Universal Cyllops	Mat'l Code UX
bonnet- 9909-3-(1)	SA479, Type 316	Joslyn	Mat'l Code PJ

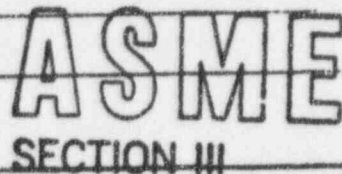
8. Hydrostatic test 5447 psi.

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1974  
 Addenda N/A, Code Case No. N/A, Date Jan. 30, 1978  
 Signed Kerotest (Manufacturer) by Jo Ann Kuperstein  
 Our ASME Certificate of Authorization No. 1902 to use the N symbol expires 10/31/78 (Date)  
 (N) (RPV)

**CERTIFICATION OF DESIGN**

Design information on file at Kerotest Manufacturing Corp.  
 Stress analysis report (Class 1 only) on file at Kerotest Manufacturing Corp.  
 Design specifications certified by (1) Thomas F. Wyke  
 PE State NC Reg. No. 4870  
 Stress analysis certified by (1) Robert G. Visalli  
 PE State PA Reg. No. 19068-E  
 (1) Signature not required. List name only.



**CERTIFICATE OF SHOP INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by The Hartford Steam Boiler I&I Co of Hartford, Connecticut have inspected the pump, or valve, described in this Data Report on Jan. 30, 1978, and state that to the best of my knowledge and belief, the Manufacturer has constructed this pump, or valve, in accordance with the ASME Code, Section III.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date Jan. 30, 1978  
Michael R. Spiker (Inspector) Commissions PA 2187 NB 7236N  
 (Nat'l Bd., State, Prov. and No.)

*Handwritten notes:*  
 PA 2187  
 NB 7236N  
 10-23-78

8540 8438



CERTIFICATE OF CONFORMANCE

Customer Inco Power Company Date Jan. 30, 1978

Customer P.O. C-13961 Keatest P.O. NU-62699

Valve Description 2" 1513# S. S. Globe Valve

Quantity 5 Item No. 9J-502 Drawing No. CA-D-9909-(1) Sh. 16 of 16

Serial No. BS 6-13, RT3-14, TIA1-2, TEF2-6, TEF2-7

Tag No. 9J-502

ASME

SECTION III

The following applicable tests and inspections for the above order, indicated by an (X) mark, have been completed and approved by the Quality Assurance Department.

TITLE	PROC/REV.	TITLE	PROC/REV.
(X) Material Cert.	<u>Attached</u>	( ) PT	_____
(X) Cleanliness	<u>K-416 Rev. A</u>	(X) Minimum Wall	<u>K-431 Rev. -</u>
(X) Hydro Test	<u>T-382 Rev. D</u>	(X) Dimensional	<u>QA-N1 Rev. B</u>
( ) Helium Test	_____	(X) Seismic - Keatest report	<u>KSAR-50-A</u>
( ) Pneumatic Test	_____	(X) Packing*	_____

\*Packing contains less than 200PPM Chlorides.

This is to certify that all processes and materials used in the manufacture of the above components comply with the subject purchase order and the specifications, drawings, and requirements referenced therein.

SIGNATURE: Joanna Kuzschi  
TITLE: QUALITY ASSURANCE

*Handwritten notes:*  
Pkg. by  
9-14-78  
PJM  
10/2/78

(1) Model No. or Type	(2) Serial No.	(3) Registration No.	(4) Drawing No.	(5) Date	(6) Year
Globe	12345	N/A	SH-D-9909P-(1)	2/7/79	1979
Globe	12346	N/A	SH-D-9909P-(1)	2/7/79	1979
Globe	12347	N/A	SH-D-9909P-(1)	2/7/79	1979
Globe	12348	N/A	SH-D-9909P-(1)	2/7/79	1979
Globe	12349	N/A	SH-D-9909P-(1)	2/7/79	1979
Globe	12350	N/A	SH-D-9909P-(1)	2/7/79	1979
Globe	12351	N/A	SH-D-9909P-(1)	2/7/79	1979
Globe	12352	N/A	SH-D-9909P-(1)	2/7/79	1979
Globe	12353	N/A	SH-D-9909P-(1)	2/7/79	1979

Station Valves for VP1, VP3 Fluids  
 (Brief description of service for which equipment was designed)

Design Conditions: 256° (Pressure) ✓ psi, 650 (Temperature) ✓ °F or Valve Pressure Class: 1500  
 Cold Working Pressure: 600 (Temperature) ✓ psi at 100°F  
 Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
<b>(a) Castings</b>			
		REVIEWED FOR CORRECTNESS AND COMPLETENESS BY: [Signature]	
		JASCO ENGINEERING	
		VERIFY VERIFIED BY: [Signature]	
		JASCO VQA	
<b>(b) Forgings</b>			
Body	P-9909A-1-(1) ✓	SA 482, F316	Forjas de Agun
Body	P-9909A-1-(3) ✓	SA 482, F316	McWilliams
Gate	M/P-9910-31P-(1) ✓	SA 405	McWilliams
Gate	M/P-9910-31P-(3) ✓	SA 405	McWilliams
			Mat'l Code: WP ✓
			Mat'l Code: CA ✓
			Mat'l Code: CA ✓
			Mat'l Code: CA ✓

(1) For manually operated valves only.  
 \* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8 1/2" x 11", (2) information in items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.



DUBOSE NATIONAL ENERGY SERVICES, INC.  
 900 INDUSTRIAL DRIVE // CLINTON, NC 28328  
 Certificate of Conformance/Compliance/CMTR

CUSTOMER:

CAROLINA POWER & LIGHT  
 SHEARON-HARRIS PLANT

SHE #1134

NEW HILL, NC

27562

Date: 9/18/94 Serial No.: 38886

Our DC No.: 101213

This material meets the requirements  
of your PO number 7Q7963-CJ

Item	Pieces	Description Specification	Grade	Heat #/ Heat Code
	1	2" S/160 X RL PIPE ASME SA312	T304 SANDVIK	474900
	17'0"			

This material has been supplied in accordance with DuBose National Energy Services, Inc. Quality System Program Rev. 3, dated 06-21-94 in compliance with 10CFR50 APP. B. The contents of the report are correct and accurate and the results are in compliance with the material specification, the code, and the customer purchase order.

Based upon our review of the manufacturer's CMTR this material supplied in accordance with the 1974 Edition thru Winter 1976 Addenda, Section II & III NCA3800, Subsection ND Class 3.

NO IMPACT TESTING OR NDE PERFORMED.

10CFR21

ASME QSC 327 EXPIRES 3-31-96

SPEC. 056 REV. 10

INTERGRANULAR CORROSION PER ASTM A262 PRACTICE E

*Ruth Barber Rich* 9-20-94

James N Dailey, QA Manager Date  
 Ruth Barber-Rich, Assistant QA Manager  
 Laurie Dickson, Certification Engineer  
 Tammy Williams, QA Technician

9-22-94

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS  
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 12/20/95  
Name  
P.O. Box 1551, Raleigh, N. C. 27602-1551 Address Sheet 1 of 1
2. Plant Shearon Harris Nuclear Power Plant Unit 1  
Name  
P.O. Box 165, New Hill, N. C. 27562-0165 Address  
WR&A 94-AMGA1  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Carolina Power and Light Company Type Code Symbol Stamp N/A  
Name  
New Hill, N.C. 27562-0165 Address Authorization No. N/A  
Expiration Date N/A
4. Identification of System Chemical and Volume Control System (2060)
5. (a) Applicable Construction Code ASME Sect. III 19 74 Edition, Winter 1976 Addenda, \_\_\_\_\_ Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983
6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Globe Valve	Kerotest Mfg. Corp.	WP6-1	24778	1CS-748 2CS-V752SN-1	1979	Replaced	Yes
Globe Valve	Kerotest Mfg. Corp.	NU11-16	13921	Same	1977	Replacement	Yes
Pipe 2" NPS	Dubose National Energy Services	Ht# 474900	N/A	Part #738-803-61 PO# 7Q7963	1994	Replacement	No
2" Tee	Dubose National Energy Services	Ht Code PH	N/A	Part #738-803-87 PO# 7C7757	1992	Replacement	No

7. Description of Work Replaced valve leaking by seat and portion of associated piping to facilitate reinstallation.
8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
Other  Pressure 3120 psi Test Temp. 74 °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

Remarks See attached manufacturer's data reports and certificate of conformance. Pressure test (hydro) performed using  
Applicable Manufacturer's Date Reports to be attached  
MMP-012 and filed with WR&A 94-AMGA1.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the  
ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed <sup>342</sup> GM Worth for WAS ECCS Supervisor Date 12/20, 19 95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the  
State or Province of North Carolina and employed by The Hartford Steam Boiler and Insurance Company of  
One State Street, Hartford, Connecticut 06102 have inspected the components described  
in this Owner's Report during the period 05/13/94 to 10/12/95, and state that  
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the  
examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer  
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with  
this inspection,

Colgan B Dayton Commissions NC 1042  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec 28 19 95



SUPPLEMENT SHEET  
FORM NPV-1

1. Manufactured by Kerotest Manufacturing Corp., Pittsburgh, PA (NU-62699)
2. Manufactured for Duke Power Company

Manufacturers' Serial No.	Drawing No.	Class	Nat'l Board No.
(2) NU11-11	CA-D-9909-(1)	1.	13.917
(11) NU11-12	CA-D-9909-(1)	1	13.918
(12) NU11-13	CA-D-9909-(1)	1	13.919
(13) NU11-15	CA-D-9909-(1)	1	13.920
(14) NU11-16	CA-D-9909-(1)	1	13.921
(15) NU11-17	CA-D-9909-(1)	1	13.922
(16) NU11-20	CA-D-9909-(1)	1	13.923
(17) NU11-21	CA-D-9909-(1)	1	13.924
(18) NU11-22	CA-D-9909-(1)	1	13.925
(19) NU11-24	CA-D-9909-(1)	1	13.926
(20) NU11-25	CA-D-9909-(1)	1	13.927
(21)			
(22)			
(23)			
(24)			
(25)			

5. (Service) shut-off valves

**ASME**  
SECTION III

*Pym*  
9/12/84  
*Pym*  
10-22-84

*Pym*  
10-22-84

3 5 4 3 7 0 4 1 2



FORM NPV-1 (1968)

Part No.	Material Spec. No.	Manufacturer	Part Name
(c) Bolting			
(d) Other Parts			
disc 9909-9-(1)Z	SA479, Type 316	Joslyn	Mat'l Code OM
bonnet 9909-3-(1)	SA479, Type 316	Carpenter	Mat'l Code OP

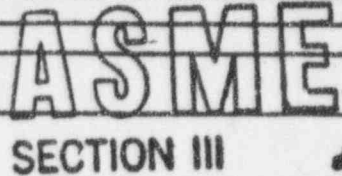
B. Hydrostatic test 544 psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1974.  
 Addenda N/A (Date), Code Case No. N/A, Date N/A  
 Signed Kerotest (Manufacturer) by Dennis J. Zilber  
 Our ASME Certificate of Authorization No. 908 to use the N symbol expires 10/28/77 (Date)  
(N) (NPV)

CERTIFICATION OF DESIGN

Design information on file at Kerotest Manufacturing Corp.  
 Stress analysis report (Class 1 only) on file at Kerotest Manufacturing Corp.  
 Design specifications certified by (1) Thomas F. Wyke  
 PE State NC Reg. No. 4870  
 Stress analysis certified by (1) Robert G. Visalli  
 PE State PA Reg. No. 19068E  
 (1) Signature not required. List name only.



CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by The Hartford Steam Boiler I&I Co of Hartford, Connecticut have inspected the pump, or valve, described in this Data Report on February 23 1977 and attest that to the best of my knowledge and belief, the Manufacturer has constructed this pump, or valve, in accordance with the ASME Code, Section III.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date February 23 1977  
 Inspector Ray [Signature] Commissions NB6314  
(Inspector) (Nat'l Bd., State, Prov. and No.)

*Handwritten notes:*  
 PA  
 10-23-77  
 10-23-77

864670411

DUBOSE NATIONAL ENERGY SERVICES, INC.  
 900 INDUSTRIAL DRIVE // CLINTON, NC 28328  
 Certificate of Conformance/Compliance/CMTR

Customer:

CAROLINA POWER & LIGHT  
 SHEARON-HARRIS PLANT  
 SR #1134  
 NEW HILL, NC

27562

Date: 9/18/94 Serial No. 38886

Our DC No. 101213

This material meets the requirements  
 of your PO number 7Q7S63-CJ ✓

Item	Pieces	Description	Grade	Heat #/ Heat Code
1	1	2" S/160 X RL PIPE ASME SA312	T304 SANDVIK	474900

This material has been supplied in accordance with DuBose National Energy Services, Inc. Quality System Program Rev. 3, dated 06-21-94 in compliance with 10CFR50 APP. B. The contents of the report are correct and accurate and the results are in compliance with the material specification, the code, and the customer purchase order.

Based upon our review of the manufacturer's CMTR this material supplied in accordance with the 1974 Edition thru Winter 1976 Addenda, Section II & III NCA3800, Subsection ND Class 3.

NO IMPACT TESTING OR NDE PERFORMED.  
 10CFR21  
 ASME QSC 327 EXPIRES 3-31-96  
 SPEC. 056 REV. 10  
 INTERGRANULAR CORROSION PER ASTM A262 PRACTICE E

*Ruth Barber-Rich* 9-20-94  
 James N Dailey, QA Manager Date  
 Ruth Barber-Rich, Assistant QA Manager  
 Laurie Dickson, Certification Engineer  
 Tammy Williams, QA Technician

9-22-94

DUBOSE NATIONAL ENERGY SERVICES, INC.  
HWY 24, ROSEBORO, NC 28382  
Certificate of Conformance/Compliance

Customer CAROLINA POWER & LIGHT

NEW HILL, NC 27562

Date 10/02/92 Serial No. 30606

Our DC No. 89641 D

THIS MATERIAL MEETS THE REQUIREMENTS  
OF YOUR PO NUMBER 7C7757-DK

ITEM	PIECES	DESCRIPTION SPECIFICATION	GRADE	HEAT NUMBER/ HEAT CODE
2	4	2" 6M# S/W TEE ASME SA182	F 304	PH  CAMCO LTI

THIS IS TO CERTIFY THAT THIS MATERIAL HAS BEEN SUPPLIED IN ACCORDANCE WITH DUBOSE NATIONAL ENERGY SERVICES, INC. QUALITY SYSTEM PROGRAM REV. 0, DATED 9-30-91 IN COMPLIANCE WITH 10CFR50 APP. B AND THE MATERIAL DESCRIBED MEETS THE SPECIFICATIONS NOTED.

Based upon our review of the manufacturer's CMTR this material supplied in accordance with the 1974 Edition thru Winter 1976 Addenda, Section II & III NA3700/NCA3800, Subsection NC Class 2.

10CFR21  
ASME QSC 327 Expires 3-31-93  
SPEC. 56, REV 9

*Laurie Dickson* 10/2/92  
James N. Dalley, QA Manager Date  
Ruth Barber-Rich, Assistant QA Manager  
Laurie Dickson, Certification Engineer

10/02/92 10:33 215 249 9080  
TELE: (215) 249-8899  
FAX: (215) 249-8888

LABORATORY TEST --- DUBOSE 002/002

*Certificate of Conformance* No. 92734

TERMS: NET - 30 DAYS



P.O. Box 249 Dublin, Pennsylvania 18917

BOLD TO  
DuBose Steel, Inc.  
P.O. Box 1098  
Roseboro, NC 28382  
Attn: Accounts Payable

SHIPPING ADDRESS  
160 MILL STREET, DUBLIN, PA 18917

SHIP TO

Attn: Ruth Barber-Rich

CUST. P.O.  
1752-65

LAB REPORT NO.  
C-60871

SHIPMENT  
Complete

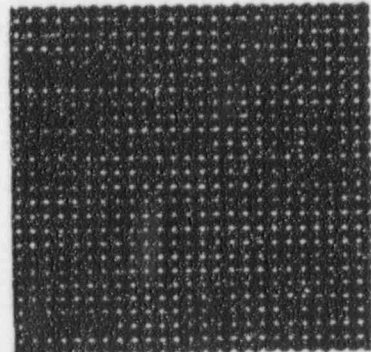
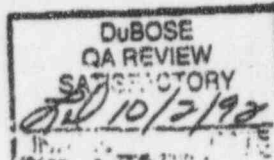
INVOICE DATE  
10/2/92

DESCRIPTION

Page 1 of 1

1. pc. 2" 6M# S/W Tee, F304 Stainless Steel, ASTM A-262, Practice A, Heat #PH, Item #2684

Reference: DC #89641  
Cust. PO #7C7757-DK  
Vendor PO #1736-65



An Intergranular Corrosion Susceptibility test was performed on the above Test Specimen in accordance with ASTM A-262, Practice A and it was found to be satisfactory with step structure and end grain pitting I.

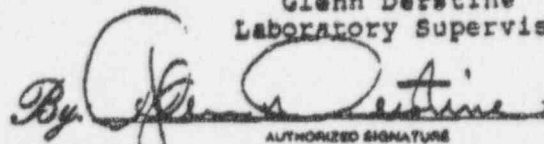
The provisions of 10CFR21, 10CFR50, Appendix B, ANSI N45.2, and NCA 3800 apply to this order.

All testing performed in accordance with L.T.I. QA Program, Rev. 7 dated 5/1/92 (approved 5/6/92) as approved by DuBose Steel, Inc. on 3/2/92.

MERCURY CONTAMINATION - During the testing and inspection, the product did not come in direct contact with mercury or any of its compounds nor with any mercury containing devices employing a single boundary of containment.

SUBJECT TO TERMS AND CONDITIONS PRINTED ON REVERSE SIDE OF THIS FORM.  
CUSTOMER COPY-ORIGINAL

Glenn Derstine  
Laboratory Supervisor

By:   
AUTHORIZED SIGNATURE

REGISTERED TRADEMARKS



# CERTIFICATE OF ANALYSIS



CAMCO FITTINGS CO.  
2464 DIXWELL AVE.  
HAMDEN CT. 06514 TEL 203-281-6580

CAMCO  
QA REVIEW  
Approved *[Signature]*  
Date *9/30/92*

CUSTOMER CODE  
11930

SHIPPING TICKET NO. 22662  
PAGE NO. 1

SOLD TO ADDRESS

DUBOSE STEEL INC  
P.O. BOX 1098  
ROSEBORO NC

28382 0000

SHIP TO

CAROLINA POWER & LIGHT  
HARRIS PLANT  
SR #1134  
NEW HILL NC 27562

SALESMAN		SHIP FROM		DATE		CUSTOMER ORDER NUMBER				TAG NUMBER			
40		40		9/30/92		1736-65				PQ# 7C7757-DK			
PAGE NO.	LINE NO.	SHIP QUANTITY	ITEM NUMBER	DESCRIPTION						HEAT CODE	MATERIAL		
1	2	4	6110020	2	TEE SW 6M F304 JOSLYN						PH	321AF 304	
TENSILE		YIELD		ELONG		RED AREA		HARDNESS					
065	1.310	.030	.002	.390	9.320	18.560	.310	.630				180	
PAGE NO.		LINE NO.		SHIP QUANTITY		ITEM NUMBER		DESCRIPTION		HEAT CODE		MATERIAL	
78.000		31.600		ELONG		64.00		RED AREA		76.00		HARDNESS	
TENSILE		YIELD		ELONG		RED AREA		HARDNESS					
C		MN		P		S		SI		NI		CR	
MO		CU		V		CB							

QUALITY REQUIREMENTS

WE CERTIFY ABOVE FITTINGS MANUFACTURED IN ACCORDANCE WITH ASTM-A182 & ASME-SA182, SOLUTION ANNEALED AT 1900 DEG. F MINIMUM AND WATER QUENCHED AS RAPIDLY AS POSSIBLE. HEAT TREATED BY A QUALIFIED MILL SOURCE. MANUFACTURED IN ACCORDANCE WITH OUR QA PROGRAM REVISION 6 DATED 1/31/91 AS ACCEPTED BY DUBOSE AND AUDITED ON 2/18/92. ASME SECTION III SUBSECTION NC CLASS 2 1974 EDITION THRU WINTER 1976 ADDENDA, 10 CFR PART 21 AND PART 50 APPENDIX APPLIES. ANSI/ASME N45.2.2.

Material capable of passing a hydrostatic test compatible with the rating of the finished forging. Material was not exposed to mercury or other alloy that is liquid at ambient temperature during processing or while in our possession. No weld repair was performed.

We do hereby certify that the reported values on this certificate of analysis have been established in accordance with material specification and that the material has been supplied in accordance with the customer purchase order.

BY *[Signature]*  
NAME KAREN CLARK  
TITLE CERTIFICATION CLERK  
DATE 9/30/92

ASME CODE VALVE DATA REPORT

Name and Address of Manufacturer (Name and Address of Distributor)  
 Name and Address of Purchaser (Name and Address of User)  
 Name and Address of Designer (Name and Address of Engineer)

Pump or Valve	Valve	Nominal Inlet Size (Inch)	Outer Size (Inch)	(a) Model No.	(b) Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
				Series No. or Type						
(1)	Globe	2-8				N/A	SH-D-9909P-(1)	1	24775	1979
(2)	Globe	2-8				N/A	SH-D-9909P-(1)	1	24776	1979
(3)	Globe	2-8				N/A	SH-D-9909P-(1)	1	24777	1979
(4)	Globe	2-8				N/A	SH-D-9909P-(1)	1	24778	1979
(5)	Globe	2-8				N/A	SH-D-9909P-(1)	1	24779	1979
(6)	Globe	2-8				N/A	SH-D-9909P-(1)	1	24780	1979
(7)	Globe	2-8				N/A	SH-D-9909P-(1)	1	24781	1979
(8)	Globe	2-8				N/A	SH-D-9909P-(1)	1	24782	1979
(9)	Globe	2-8				N/A	SH-D-9909P-(1)	1	24783	1979
(10)	Globe	2-8				N/A	SH-D-9909P-(1)	1	24784	1979

5. Station Valves for WPI, WPS Fluids  
 (Brief description of service for which equipment was designed)

6. Design Conditions 2465 psi 650 °F or Valve Pressure Class 1500  
 (Pressure) (Temperature)  
 7. Cold Working Pressure 2600 psi at 100°F  
 8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
<b>(a) Castings</b>			
		REVIEWED FOR CORRECTNESS AND COMPLETENESS BY <u>[Signature]</u>	
		JASCO ENGINEERING	
		DESIGN VERIFIED BY <u>[Signature]</u>	
		EDFECO VALVE CO.	
<b>(b) Forgings</b>			
Body	P-9909X-1-(1) SA 487, F316	Forjas de Anun.	Mat'l Code WF
Body	P-9909X-1-(1) SA 487, F316	McWilliams	Mat'l Code CAB
Yoke	M/P-9910-31P-(1) SA 105	McWilliams	Mat'l Code CAH
Yoke	M/P-9910-31P-(1) SA 105	McWilliams	Mat'l Code CAU

(1) For manually operated valves only.  
 \* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8 1/2" x 11", (2) information in items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

Material	Manufacturer	Quantity
007049	Garrett	1
245000	Garrett	1
UP-9999-35-102	Jenbacher	1

B. Hydraulic test: 500 psi (Differential test pressure) 3600 psi

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition of 1974, Addenda Summer 1996. Code Case No. 1902 Date April 5, 1979

Signed Kerotest by Dennis J. Jella

Our ASME Certificate of Authorization No. 1902 to use the symbol expires 10/31/83

**CERTIFICATION OF DESIGN**

Design information on file at Kerotest Manufacturing Corp.

Stress analysis report (Class I only) on file at Kerotest Manufacturing Corp.

Design specifications certified by (1) A.C. Chen  
 PE State Reg. No. 6494

Stress analysis certified by (1) R.G. Vipelli  
 PE State Reg. No. 19068-A

(1) Signature not required. List name only.

**CERTIFICATE OF SHOP INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by Hartford Steam Boiler of Hartford, Connecticut have inspected the pump or valve described in this Data Report on 2/5, 1979 and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump or valve in accordance with the ASME Code, Section III.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 2/5 1979  
 R.G. Vipelli  
 Commission 19068-A

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 10/12/95  
Name  
P.O. Box 1551, Raleigh, N. C. 27602-1551 Address Sheet 1 of 1
2. Plant Shearon Harris Nuclear Power Plant Unit 1  
Name  
P.O. Box 165, New Hill, N. C. 27562-0165 Address WR&A 94-AMGW1 (ESR 95-00641)  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Carolina Power and Light Company Type Code Symbol Stamp N/A  
Name  
New Hill, N.C. 27562-0165 Address Authorization No. N/A  
Expiration Date N/A
4. Identification of System Chemical and Volume Control System (2060)
5. (a) Applicable Construction Code ASME Sect. III 1974 Edition, Winter 1976 Addenda, \_\_\_\_\_ Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1976
6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code = Stamped (Yes or No)
Globe Piston Check Valve	Anchor Darling Valve Co.	EB854-2-4	1376	1CS-179 2CS-V136SN-1	1991	Replaced	Yes
Check Valve	Rockwell International	CD-110	1036	Same	1986	Replacement	Yes
Pipe	Sandvik Steel Company	Ht# 474900	N/A	2CS2-296SN-61 Part# 738-803-61	1990	Replacement	No
Coupling	Colonial	Ht# CJF	N/A	Part# 732-106-92	1995	Replacement	No

7. Description of Work Replaced 2" check valve leaking by its seat with one from another manufacturer and design.
8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



FORM NIS-2 (Back)

Remarks See attached manufacturer's data reports and certificates of compliance. Pressure testing was performed per Code Case  
Applicable Manufacturer's Data Reports to be attached  
H-368 in lieu of a hydrostatic test as the valve replaced was immediately downstream of a centrifugal pump whose suction side  
would have been overpressurized if the valve was hydrostatically tested.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the  
ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed W. Slover Supervisor ECCS Date October 16, 19 95

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the  
State or Province of North Carolina and employed by The Hartford Steam Boiler and Insurance Company of  
One State Street, Hartford, Connecticut 06102 have inspected the components described  
in this Owner's Report during the period 05/13/94 to 10/12/95, and state that  
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the  
examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer  
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with  
this inspection.

Edgar B. Dwyer Commissions NC 1042  
Inspector's Signature National Board, State, Province, and Endorsements

Date 10-18-95 19 95

Ebasco Order H-55862  
 Rockwell Order 61-82646

"CORRECTED COPY"

**FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES\***  
 (As Required by the Provisions of the ASME Code, Section III, Div. 1)

1. Manufactured by Rockwell International, P.O. Box 501, Sulphur Springs, TX 75482  
(Name and Address of Manufacturer)

2. Manufactured for Ebasco Services Inc., Two Rector St., New York, NY 10006  
(Name and Address of Purchaser or Owner)

3. Location of Installation Shearon Harris Nuclear Power Plant, Wake County, NC  
(Name and Address)

4. Pump or Valve Valve - Check . Nominal Inlet Size 2" Outlet Size 2"  
(inch) (inch)

(a) Model No. Series No. or Type	(b) Manufacturers' Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Std. No.	(g) Year Built
(1) B36274F316RT1	CD108-CD1	NA	BM 1607514	1	1034-1039	1986
(2)						
(3)						
(4)						
(5)						
(6)						
(7)						
(8)						
(9)						
(10)						

5. Rockwell International Assembly Lot No. H7339 Qty. 6  
(Serial designation of section for which equipment was designed)

ACD Drawing No. C-31607513-A Design Report B-2751791

\*Remarks: Corrected Code Edition and Addenda per revised drawing.

6. Design Conditions 2270 psi 800 °F or Valve Pressure Class 1521 (1)  
(Pressure) (Temperature)

7. Cold Working Pressure 3650 psi at 100°F.

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
<b>(a) Castings</b>			
NA			
<b>(b) Forgings</b>			
Bodies SK502 HT#1	SA182F316	Texas Forge	LTV Steel Heat 8650585
Bodies SK501 HT#1	SA182F316	Texas Forge	LTV Steel Heat 8650309

(1) For manually operated valves only.

\* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

(3/77) This form (E00027) may be obtained from the Order Dept., ASME, 348 E. 47 St., New York, N.Y. 10017

U 3 / 5 3 3

Page 2

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting NA			
<b>ASME SECTION II</b>			
(d) Other Parts			
Covers G0204	SA479T316	Coulter	Carpenter Heat 40681
Disks G0034#1	A565GR616	Hy-Level	Joslyn Heat 82829
Disks F7868#1	A565GR616	Hy-Level	Joslyn Heat 82829

8. Hydrostatic test 5475 psi.

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1974\*  
 Addenda Winter, 1976\*, Code Case No. None Date 6/19/86  
 Signed Rockwell International by [Signature]  
 Our ASME Certificate of Authorization No. N-1814 to use the (N) symbol expires 8/12/86  
(N) (RPV) (Date)

**CERTIFICATION OF DESIGN**

Design information on file at Rockwell International, Sulphur Springs, Texas  
 Stress analysis report (Class 1 only) on file at Rockwell International, Sulphur Springs, Texas  
 Design specifications certified by (1) Ivan Grosz  
 PE State NC Reg. No. 9986  
 Stress analysis certified by (1) Ricky E. Spears  
 PE State TX Reg. No. 57980  
 (1) Signature not required. List name only.

**CERTIFICATE OF SHOP INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TEXAS and employed by Victoria Lloyds' Ins. Co. of Houston, Texas 77098 have inspected the pump, or valve, described in this Data Report on \*See Remarks 18 and state that to the best of my knowledge and belief, the Manufacturer has constructed this pump, or valve, in accordance with the ASME Code, Section III.  
 By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  
 Date 6-25 1986  
[Signature] Commissions TEXAS 782  
(NBPB Bd., State, Prov. and No.)

U 3 / 3 1 1 9 1 1

128E

DUBOSE NATIONAL ENERGY SERVICES, INC.  
 900 INDUSTRIAL DRIVE // CLINTON, NC 28328  
 Certificate of Conformance/Compliance/CMTR

Customer:

-----  
 CAROLINA POWER & LIGHT  
 CP & L - SHEARON-HARRIS PLANT  
 STATE RD 1134 CRDF-HO3  
 NEW HILL, NC 27562

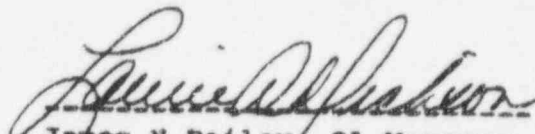
Date 9/06/95 Serial No. 41622  
 Our DC No. 106662  
 This material meets the requirements  
 of your PO number 8H0501-CJ

Item	Pieces	Description Specification	Grade	Heat # / Heat Code
1	1	2" S/160 X RL PIPE ASME SA312	PT#738-803-61 304 SANDVIK	474900

This material has been supplied in accordance with DuBose National Energy Services, Inc. Quality System Program Rev. 4, dated 07-01-95 in compliance with 10CFR50 APP. B. The contents of the report are correct and accurate and the results are in compliance with the material specification, the code, and the customer purchase order.

Based upon our review of the manufacturer's CMTR this material supplied in accordance with the 1974 Edition thru Winter 1975 Addenda, Section III NA3700/NCA3800, Subsection NC Class 2.

ASME Section II 1989 Edition 1989 Addenda.  
 NO IMPACT TESTING OR NDE PERFORMED.  
 10CFR21  
 ASME QSC 327 EXPIRES 3-31-96  
 Spec. 056 Rev. 10

  
 \_\_\_\_\_ Date 9/6/95  
 James N Dailey, QA Manager  
 Ruth Barber-Rich, Assistant QA Manager  
 Laurie Dickson, Certification Engineer  
 Tammy Williams, QA Technician

②9.18.95

DUBOSE NATIONAL ENERGY SERVICES, INC.  
900 INDUSTRIAL DRIVE // CLINTON, NC 28328  
Certificate of Conformance/Compliance/CMTR

Customer:

CAROLINA POWER AND LIGHT  
CP & L - SHEARON-HARRIS PLANT  
STATE RD 1134  
NEW HILL, NC 27562

Date 8/30/95 Serial No. 41580 D  
Our DC No. 906461  
This material meets the requirements  
of your PO number 8G9179CJ

Item	Pieces	Description Specification	Grade	Heat # / Heat Code CJF
5	3	2" 6M SW COUPLINGS ASME SA183	F304 COLONIAL	

This material has been supplied in accordance with DuBose National Energy Services, Inc. Quality System Program Rev. 4, dated 07-01-95 in compliance with 10CFR50 APP. B. The contents of the report are correct and accurate and the results are in compliance with the material specification, the code, and the customer purchase order.

Based upon our review of the manufacturer's CMTR this material supplied in accordance with the 1974 Edition thru Winter 1975 Addenda, Section III, HA3700/NCA3800, Subsection NC Class 2.

ASME Section II 1989 Edition 1989 Addenda  
NO IMPACT TESTING OR NDE PERFORMED.  
10CFR21  
ASME QSC 327 EXPIRES 3-31-96

*James N Dailey*  
 James N Dailey, QA Manager  
 Ruth Barber-Rich, Assistant QA Manager  
 Laurie Dickson, Certification Engineer  
 Tommy Williams, QA Technician

8/20/95  
Date



FORM NPV-1 (back)

8. Remarks 2"-1878#-Globe Piston Check Valve

Ref. A/DV S.O. EB854-2

9. Design conditions 3104 psi 450 °F or valve pressure class 1878 (1)

10. Cold working pressure 4507 psi at 100°F

11. Hydrostatic test 6975 psi. Disk differential test pressure 4958 psi

912573447

CERTIFICATION OF DESIGN

Design Specification certified by R. A. Stewart P.E. State NC Reg. no. 8677  
 Design Report certified by T. C. Bartlett P.E. State PA Reg. no. PE-039036-E

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N1712 Expires 4/15/92

Date 8/26/91 Name Anchor/Darling Valve Company Signed R. L. Starnett  
(N Certificate Holder) (authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State Board of Inspection of Pennsylvania and employed by Commercial Union Ins. Co. of Roston, Mass. have inspected the pump, or valve, described in this Data Report on 45972-27 18 91 and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, regarding the competence described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 8-27-91 Signed Charles Young Commission 189544 N  
(Inspector) (Pur. Bd. Div. endorsement state or prov. and no.)  
Charles Young Pennsylvania 2392

(1) For manually operated valves only.

109.9.9

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Caroline Power & Light Company Date 12/22/95  
Name  
P.O. Box 1551, Raleigh, N. C. 27602-1551 Address Sheet 1 of 1
2. Plant Shearon Harris Nuclear Power Plant Unit 1  
Name  
P.O. Box 165, New Hill, N. C. 27562-0165 Address NR&A 94-APMF1  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Caroline Power and Light Company Type Code Symbol Stamp N/A  
Name  
New Hill, N.C. 27562-0165 Address Authorization No. N/A  
Expiration Date N/A
4. Identification of System Emergency Service Water (4065)
5. (a) Applicable Construction Code ASME Sect. III 1974 Edition, Winter 1976 Addenda, \_\_\_\_\_ Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983

## 6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Hex Nuts 3/4 - 10	Bowman Distrib'n Co.	N/A	N/A	Part# 726-148-60 PO# 7N7609	1994	Replacement	No
Hex Nuts 5/8 - 11	Bowman Distrib'n Co.	N/A	N/A	Part# 726-149-02 PO# 8G6919	1995	Replacement	No
Threaded Rod 3/4 - 10	Dubose National Energy Services	Ht# 70202	N/A	Part# 727-419-78 PO# 8E4335	1992	Replacement	No

7. Description of Work Replaced bolting intentionally cut on flange connections to containment fan cooler AH-1. See remarks.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



FORM NIS-2 (Back)

Remarks See attached certificates of conformance. Inservice leak test performed per MMP-012 and completed on 10/5/95 and filed  
Applicable Manufacturer's Data Reports to be attached  
with associated WR&A. Corrosion damage to the face of some raised face flanges was repaired using Belzona material as reviewed  
and approved by ESR 95-00825. The application was limited so as not to substitute for Code pressure boundary wall.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the  
ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature] for W.A. Sloner ECCS Supervisor Date 12/22, 19 95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the  
State or Province of North Carolina and employed by The Hartford Steam Boiler and Insurance Company of  
One State Street, Hartford, Connecticut 06102 have inspected the components described  
in this Owner's Report during the period 05/13/94 to 10/12/95, and state that  
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the  
examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer  
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with  
this inspection.

[Signature] Commissions NC 1042  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec 27 19 95

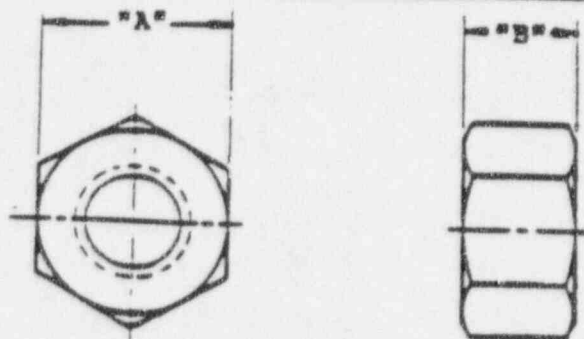
COMMERCIAL GRADE ITEM DEDICATION  
CRITICAL CHARACTERISTICS

ITEM DESCRIPTION: HEAVY HEX HEAD NUTS ( PER ANSI B18.2.2 ) MANUFACTURER: VARIOUS CATALOG PART NUMBER: VARIOUS MODEL NUMBER: N/A CP&L PART NUMBER: VARIOUS		
DESIGN FUNCTION: USED IN BOLTED CONNECTIONS FOR ELECTRICAL/I & C, CIVIL, AND MECHANICAL APPLICATIONS. ( NON-ASME APPLICATIONS )		
SAFETY CLASSIFICATION: NUCLEAR SAFETY RELATED		
CRITICAL CHARACTERISTIC APPLICABILITY AND LIMITATIONS: APPLIES TO ANSI B18.2.2 HEAVY HEX HEAD NUTS, UNC THREAD SERIES, CLASS 2B FIT, AND FOLLOWING MATERIAL TYPES; ASTM A307 Gr. A & B A194 Gr. 2H & 8 A563 Gr. A, B, & C		
SAMPLE SIZE : PER QVS-402		
METHOD 1 CRITERIA All standards to latest edition unless noted otherwise in Purchase Order		
CRITICAL CHARACTERISTIC FOR ACCEPTANCE	TEST/ INSPECTION	ACCEPTANCE VALUE
MATERIAL ULTIMATE TENSILE STRENGTH	BRINELL HARDNESS TEST, ROCKWELL OR EQUIVALENT HARDNESS TEST.	A307 Gr. A (1 1/2" - 4") -- 121 ≤ BHN ≤ 241 OR 69 ≤ HRB ≤ 100 Gr. B (1/4" - 4") -- 121 ≤ BHN ≤ 212 OR 69 ≤ HRB ≤ 95 A194 Gr. 2H (≤ 1 1/2") -- 248 ≤ BHN ≤ 352 OR 24 ≤ HRC ≤ 38 2H (> 1 1/2") -- 212 ≤ BHN ≤ 352 OR HRB ≥ 95 AND HRC ≤ 38 Gr. B (ALL SIZES) -- 126 ≤ BHN ≤ 300 OR 60 ≤ HRB ≤ 105 OR HRB ≥ 60 AND HRC ≤ 32 A563 Gr. A (1/4" - 4") -- 116 ≤ BHN ≤ 302 OR HRB ≥ 68 AND HRC ≤ 32 Gr. B (1/4" - 1 1/2") -- 121 ≤ BHN ≤ 302 OR HRB ≥ 69 AND HRC ≤ 32 Gr. C (1/4" - 4") -- 143 ≤ BHN ≤ 352 OR HRB ≥ 78 AND HRC ≤ 38
DIMENSIONS - NOMINAL DIAMETER, THICKNESS, AND WIDTH ACROSS FLATS THREADS PER INCH	DIMENSIONAL CHECK	PER PAGE 2 of 2. PER P.O.
THREAD INTEGRITY	BOLT ENGAGEMENT	APPROPRIATE SIZE BOLT WILL COMPLETELY ENGAGE IN NUT.
MATERIAL TYPE - STAINLESS vs CARBON STEEL	MAGNET TEST	ATTRACTION TO CARBON STEEL
NUT MARKINGS ( IF REQUIRED )	VISUAL CHECK	A194 Gr. 2H - MARKED WITH A 2H or 2HB Gr. B - MARKED WITH A B or BB A563 Gr. A & B - NOT REQUIRED TO BE MARKED, BUT MAY BE MARKED WITH THE GRADE LETTER SYMBOL A563 Gr. C - MARKED WITH 3 CIRCUMFERENTIAL MARKS 120° APART
COATINGS	VISUAL CHECK	PRESENCE OF COATINGS PER P.O.

APPROVALS: Approvals for previous revisions are on file in Document Control

REV. NO.	PREPARED BY/ DATE	VERIFIED BY/ DATE	PROJ. ENGR./ DATE	PRIN. OR RES. / DATE
4	<i>Janelle Morton</i> 2/17/94	<i>George O. White</i> 2/17/94	<i>[Signature]</i> 2/17/94	<i>[Signature]</i> 2/17/94

COMMERCIAL GRADE ITEM DEDICATION  
CRITICAL CHARACTERISTICS



HEAVY HEX NUT

DIAMETER SIZE (NOMINAL)	WIDTH ACROSS FLATS "A"			THICKNESS "B"		
	BASIC	MIN	MAX	BASIC	MIN	MAX
1/4 (.250)	.500	.488	.500	.234	.218	.250
5/16 (.312)	.562	.546	.562	.297	.280	.314
3/8 (.375)	.687	.669	.688	.359	.341	.377
7/16 (.437)	.750	.728	.750	.422	.403	.441
1/2 (.500)	.875	.850	.875	.484	.464	.504
9/16 (.562)	.937	.909	.937	.546	.526	.568
5/8 (.625)	1.062	1.031	1.062	.609	.587	.631
3/4 (.750)	1.250	1.212	1.250	.734	.710	.758
7/8 (.875)	1.437	1.394	1.438	.859	.833	.885
1 (1.00)	1.625	1.575	1.625	.984	.956	1.012
1 1/8 (1.12)	1.812	1.756	1.812	1.109	1.079	1.139
1 1/4 (1.25)	2.00	1.938	2.00	1.218	1.187	1.251
1 1/2 (1.50)	2.375	2.30	2.375	1.469	1.433	1.505
1 3/4 (1.75)	2.750	2.662	2.750	1.718	1.679	1.759
2 (2.00)	3.125	3.025	3.125	1.969	1.925	2.013
2 1/2 (2.50)	3.875	3.750	3.875	2.453	2.401	2.505
3 1/2 (3.50)	5.375	5.200	5.375	3.437	3.370	3.506

NOTE: ALL DIMENSIONS ARE IN INCHES.

**CP&L**

RECEIVER / INSPECTION REPORT

DATE 04/21/94 LOCATION 03 HARRIS DELIVER TO ALET1

PO# 7N7609 RECV# 105820 \*\* QA-REVIEW \*\*  
LINE# 01 DATE RECV. 04/21/94  
REQ. BY ROL9409B RECV. BY BFK  
MAN. REQ# 7N7609 QTY RECV 500.00 PKSLIP QTY 500.00 BAL DUE 0.00

CURRENT PART # 726-148-60 VENDOR 79317  
NAME NUT, HX, HV, 3/4-10, S BOWMAN DISTRIBUTION C/O  
GR A-194-2H BUYER WILLIAM S. HICKS  
PHONE 919 5466492

\*\*\*\*\* NAME PLATE DATA \*\*\*\*\*  
MATERIAL SPEC. A194, SPECIAL TEST/INSPECTION PER

ACCOUNT #	UNIT PRICE	PER	U/M	W.O. #	QTY	BIN LOCATION
E60 1541	.188	C	EA	91-ASKA1	4	QA-REVIEW
				93-ALET1	29	
MQC	VENDOR INST.	U/I	U/QTY			STORAGE B
Q	E	EA				
INSP. REQ	AF				MIN	50
					MAX	500

\*\*\* QA RECPT & REVIEW \*\*  
 QTY RECV 500.00  
 QTY QA REV 500.00  
 QTY ACCEPTED 500.00  
 QTY REJECTED .00  
 QTY TO STORE 500.00

*H-001-00*  
*CGI-1012-B-R/4*

INSPECTOR Mary Beasley  
DATE 4-25-94

SIGNATURE APPROVALS *[Signature]* 4/27/94

RECOMMENDED DISPOSITION \_\_\_\_\_

DISCREPANCY DESCRIPTION \_\_\_\_\_

**CAROLINA POWER AND LIGHT COMPANY**  
**WELDING SERVICES UNIT MEMORANDUM**

To: Receiving Inspection Project No.: 94-370 Date: 04/25/94

Investigators:

Robert Jordan  
Joe Alexander  
 \_\_\_\_\_  
 \_\_\_\_\_

Reviewed By:

*Robert Jordan*  
*Joe Alexander*  
 \_\_\_\_\_  
 \_\_\_\_\_

Distribution:

File  
 \_\_\_\_\_  
 \_\_\_\_\_

Approved by:

*Malcolm E. Reese*  
 Manager, Welding Services Unit

Subject: HNP-CGI-Mechanical Testing of Hex Nuts, CP&L PN 726-148-60, PO No. 7N7609-01.

On 04/21/94 Joe Alexander of the Welding Services Unit (WSU) received fifty hex nuts from Receiving Inspection at the HNP. The samples were identified as CP&L PN 726-148-60, PO No. 7N7609-01. The WSU was requested to perform a hardness test on each sample.

A Rockwell C scale hardness test was performed on each sample in accordance with ASTM A370-90. The results of the mechanical testing are presented in the table below and on page 2.

SAMPLE NO.	HARDNESS ROCKWELL C SCALE	SAMPLE NO.	HARDNESS ROCKWELL C SCALE	SAMPLE NO.	HARDNESS ROCKWELL C SCALE
1	26	11	27	21	28
2	27	12	27	22	28
3	25	13	26	23	28
4	29	14	27	24	27
5	25	15	28	25	27
6	27	16	26	26	28
7	26	17	28	27	28
8	27	18	28	28	28
9	27	19	28	29	28
10	27	20	27	30	26

Project No. 94-370

Page 2

SAMPLE NO.	HARDNESS ROCKWELL C SCALE	SAMPLE NO.	HARDNESS ROCKWELL C SCALE	SAMPLE NO.	HARDNESS ROCKWELL C SCALE
31	26	38	27	45	27
32	26	39	27	46	28
33	26	40	27	47	27
34	27	41	26	48	26
35	27	42	28	49	27
36	30	43	27	50	29
37	27	44	27		

RECEIVER / INSPECTION REPORT

DATE 08/11/95 LOCATION 03 HARRIS

PO# 8G6919 RECV# 245508 \*\* QA-REVIEW \*\*  
 LINE# 02 DATE RECV. 08/11/95  
 REQ. BY RRH RECV. BY SNW  
 MAN. REQ# 8G6757 QTY RECV 450.00 PKSLIP QTY 450.00 BAL DUE 0.0

CURRENT PART # 726-149-02  
 NAME NUT.HX.HV.5/8-11.S  
 GR 4-194-2H

VENDOR 79317  
 BOWMAN DISTRIBUTION  
 BUYER WILLIAM S. HICKS  
 PHONE 919 5466492

\*\*\*\*\* NAME PLATE DATA \*\*\*\*\*  
 MATERIAL SPEC. A194, SPECIAL TEST/INSPECTION PER

ACCOUNT #	UNIT PRICE	PER	U/M	W.O. #	QTY	BIN	LOCATIO
E60 1541	.124	C	EA	95-ADNZ1	2	QA-REVIEW	

MQC	VENDOR INST.	U/I	U/QTY	STORAGE B
Q	E	EA		

INSP. REQ	AF	MIN	100
		MAX	500

\*\*\* QA RECFT & REVIEW \*\*

QTY RECV	450.00	<i>MCS-01 Sample Table A: 50 ea.</i>
QTY QA REV	450.00	<i>Table B: 6 ea.</i>
QTY ACCEPTED	450.00	
QTY REJECTED	.00	
QTY TO STORE	450.00	<i>CGI 1012 B Rev 4</i>

INSPECTOR J. Hernandez  
 DATE 8/15/95

SIGNATURE \_\_\_\_\_  
 APPROVALS \_\_\_\_\_

RECOMMENDED DISPOSITION \_\_\_\_\_

DISCREPANCY DESCRIPTION \_\_\_\_\_

TEST DATA SHEET(s)

ITEM(s): 50-11 HVHXNT3  
 PURCHASE ORDER NUMBER(s): 866919-02  
 REFERENCE DOCUMENT(s): CGI1012B  
 DATA SHEET: 1 of    

MFG/SUPPLIER(s): Bowman  
 CP&L PART NUMBER(s): 726-149-02  
 TEST TYPE(s): Dimension/Hardness  
 SAMPLE SIZE: 50/6

TEST EQUIPMENT UTILIZED	CALIBRATION DUE DATE
Caliper CRDF-049	9/13/95
New Age Hardness	20.4 ± 1.0 19.6 Rc Ref. = 34.9 ± 1.0 34.3 Rc

DATA TABLE

SAMPLE NUMBER	TEST PARAMETER	ACCEPTANCE VALUE	RECORDED TEST VALUE
1-50	Width Across Flats	1.051" - 1.062"	all fifty samples were between 1.040" - 1.046"
1-50	Thickness	0.587" - 0.631"	all 50 samples were between 0.605" - 0.619"
1	Hardness	24-38 Rc	27 Rc
2	"	"	28 Rc
3	"	"	28 Rc
4	"	"	28 Rc
5	"	"	28 Rc
6	"	"	27 Rc

COMMENTS / DISCUSSION:

TEST STATUS: ACCEPTABLE  UNACCEPTABLE

TESTED BY: J. Alexander DATE: 8/15/95



Purchase order number 8G6919AS	Loc	Date 08/09/95
Agreement number		Change number

79317

BOWMAN DISTRIBUTION  
%RSPENCER STE 150

Ship to:  
CAROLINA POWER & LIGHT CO  
HARRIS NUCLEAR PLANT

Mail original and 2 copies of invoice to:  
Carolina Power & Light Company  
c/o Purchase Order Invoice Accounting  
PO Box 870  
Raleigh, NC 27602

- FAX number (919) 546-6750
- Acknowledge receipt of this order promptly.
- This order is subject only to the *Terms and Conditions* appearing on the reverse of this order.

- Show our *Purchase order number* and *CP&L part number* on invoice packing slips, packages, and correspondence referencing this material.
- The attached specification is hereby incorporated and made part of this order.

Requested by	Priority	Deliver to/W.O. no.	Receipt inspection	SC	Etc	MGC Q	Vendor instruction E	Specification and date
Documentation code(s)								Invoice payment terms
Ship via-freight terms	F.O.B.	Confirmed with						APR number

Item	CP&L part number	Quantity	U/M	Required date	Delvd on site date	Unit price	Per
02	726-149-02	450	EA	10/01/95	08/10/95	12.400	C

NUT, HX, HV, 5/8-11, S  
GR A-194-2H

\*\*\*\*\* NAME PLATE DATA \*\*\*\*\*

MATERIAL SPEC. A194, SPECIAL TEST/INSPECTION PER  
CGI-1012B, LATEST REV

\*\*\*\*\* MANUFACTURER'S PART #'S \*\*\*\*\*

58176 - BOWMAN DIS - 36657

CONFIRMING ONLY: DO NOT DUPLICATE.  
PRICED PER AGREEMENT #002295

ITEM TOTAL 55.80

SEE THE FOLLOWING VENDOR INSTRUCTIONS: E

P.O. TOTAL 110.80

CONTINUE

CP&L REQ: 02-8G6757

Refer all correspondence to WILLIAM S. HICKS	Telephone number 919/546-6492
---	----------------------------------

FIELD COPY - (COPY 3)

79317

BOWMAN DISTRIBUTION  
 1RSPENCER STE 150

MWH

Purchase order number	Loc	Date
8G6919AS	03	08/09/95
Agreement number		Change number

Ship to:  
 CAROLINA POWER & LIGHT CO  
 HARRIS NUCLEAR PLANT

Mail original and 2 copies of invoice to:  
 Carolina Power & Light Company  
 c/o Purchase Order Invoice Accounting  
 PO Box 870  
 Raleigh, NC 27602

- FAX number (919) 546-6750
- Acknowledge receipt of this order promptly.
- This order is subject only to the *Terms and Conditions* appearing on the reverse of this order.

- Show our *Purchase order number* and *CP&L part number* on invoice packing slips, packages, and correspondence referencing this material.
- The attached specification is hereby incorporated and made part of this order.

Requested by	Priority	Deliver to/W.O. no.	Receipt inspection	SC	Esc	MGC	Vendor instruction	Specification and date
Documentation code(s)								Invoice payment terms
Ship via-freight terms	F.O.B.	Confirmed with						APR number
Item	CP&L part number	Quantity	U/M	Required date	Delv'd on site date	Unit price	Per	

**VENDOR INSTRUCTIONS**

E - THIS IS CONSIDERED A "COMMERCIAL GRADE" ITEM.  
 THE VENDOR IS NOT REQUIRED TO BE ON THE  
 APPROVED SUPPLIERS LIST

Refer all correspondence to  
 WILLIAM S. HICKS

Telephone number  
 919/546-6492

DUBOSE NATIONAL ENERGY SERVICES, INC.  
 900 INDUSTRIAL DRIVE // CLINTON, NC 28328  
 Certificate of Conformance/Compliance/CMTR

Customer:

-----  
 CAROLINA POWER & LIGHT  
 SHEARON-HARRIS PLANT  
 SR #1134  
 NEW HILL, NC

27562

Date 3/30/95 Serial No. 40420  
 Our DC No. 103544  
 This material meets the requirements  
 of your PO number 8E4335-CH

Item	Pieces	Description	Grade	Heat # / Heat Code
3	4	1"-8 X 12' THRD ROD ASME SA193	PT#727-419-86 G B7 A&G	NAO
1	13	5/8"-11 X 12' THRD ROD ASME SA193	PT#727-419-60 G B7 A&G	NBA
2	8	3/4"-10 X 12' THRD ROD ASME SA193	PT#727-419-78 G B7 A&G	NAM

This material has been supplied in accordance with DuBose National Energy Services, Inc. Quality System Program Rev. 3, dated 06-21-94 in compliance with 10CFR50 APP. B. The contents of the report are correct and accurate and the results are in compliance with the material specification, the code, and the customer purchase order.

Based upon our review of the manufacturer's CMTR this material supplied in accordance with the 1974 Edition thru Winter 1976 Addenda, Section II & III NA3700/NCA3800, Subsection NC Class 2.

ASME Section II 1983 Edition Summer 1983 Addenda.  
 NO IMPACT TESTING OR NDE PERFORMED.  
 10CFR21  
 ASME QSC 327 EXPIRES 3-31-96  
 Spec. 55 Rev. 8

Ruth Barber-Rich 3-30-95  
 James N Dailey, QA Manager Date  
 Ruth Barber-Rich, Assistant QA Manager  
 Laurie Dickson, Certification Engineer  
 Tammy Williams, QA Technician

4-12-95

9711

A & G ENGINEERING II, INC.  
 NUCLEAR REPORT OF PHYSICAL AND CHEMICAL TESTS  
 AND CERTIFICATION OF COMPLIANCE

CUSTOMER: DUBOSE STEEL  
 PARTS MARKED: NCA 3866.6  
 CUSTOMER P.O. NO.: 1546-63  
 A & G PACKING LIST NO.: 06669  
 PREPARED BY: KL DATE: 8/25/92

A&G ENGINEERING II, INC REGISTERED TRADE MARK  
 (-)  
 REGISTER NO. 1,295,663

REPORT: 06669 Revised 11-20-92  
 SPECIFICATIONS: ASME SA193 GR. B7  
 ASME SEC. III NCA 3800, CLASS 2  
 1989 EDITION THRU NO. ADDENDA.  
 10 CFR 50 APPEND "B" / 10 CFR 21 APPLIES

TOTAL P. 02

Item No.	Description	Mat'l	Qty.	No. Pcs. Tested	Hardness After 24 Hrs. @	Ultimate Tensile	Proof Yield	Elong	RA	Hardness	Heat Treat Data
-1-	1 1/2-13 UNC(2A) X 12 FT. IFL BAR ASME SA193 GR. B7	4140	18,960	1		1128,360	1112,840	24.5	61	282 HB	665 DEG C
-2-	15/8-11 UNC(2A) X 12 FT. DITTO	4140	11,880	1		1134,000	1122,000	21.4	46.0	30 RC	1140 DEG F
-3-	1 3/4-10 UNC(2A) X 12 FT. DITTO	4140	8,040	1		1126,500	1108,500	23.4	74.6	27 RC	1140 DEG F
-4-	17/8-9 UNC(2A) X 12 FT. DITTO	4140	2,952	1		1133,000	1120,000	23.0	63.5	30 RC	1120 DEG F
-5-	11-8 UNC(2A) X 12 FT. DITTO	4140	2,244	1		1138,600	1123,000	21.0	59.8	31 RC	1120 DEG F

CAROLINA POWER & LIGHT  
 PO#8E4335-CH Item#1,2,&3

Item No.	VISUAL INSP.	SA 614	Heat No.	Heat Code	C	Cr	Ni	Mo	V	...		
1	18,960	18,960	0	545170	L1B	1.43	.96	.25	1.914	1.017	1.02	1.20
2	11,880	11,880	0	84746	NRA	1.43	.90	.23	1.620	1.024	1.98	1.19
3	8,040	8,040	0	70202	NRM	1.43	.91	.22	1.013	1.013	1.00	1.22
4	2,952	2,952	0	60274	NAN	1.42	.95	.20	1.020	1.022	1.98	1.19
5	2,244	2,244	0	70213	NAD	1.41	.90	.24	1.022	1.013	1.00	1.19

DUBOSE  
 CA REVIEW  
 SATISFACTORY  
 Initial: [Signature] DATE: 11/24/92

MATERIAL MANUFACTURED/SUPPLIED IN ACCORDANCE WITH DUBOSE STEEL P.O. 81546-63  
 A&G OSC 8455 EXPIRES JUNE 11, 1994  
 NO WELD REPAIRS HAVE BEEN PERFORMED ON THIS MATERIAL.

We certify that the contents of this report are correct and accurate and that all test results and operations were in compliance with requirements of the material specifications and specific requirements of section III paragraphs designated by the purchaser.

[Signature]  
 W.R. Cook, Q.A.  
 Dan McDevitt, Q.A.

THIS DOCUMENT MAY BE REPRODUCED UNALTERED, ONLY FOR THE PURPOSE OF CERTIFYING A LESSER QUANTITY OF THE MATERIAL SPECIFIED HEREIN. ALTERATION OR REPRODUCTION FOR ANY OTHER PURPOSE IS PROHIBITED.

THIS MATERIAL CONTAINS NO MERCURY CONTAMINATE

HEAT TREAT - OIL QUENCH AND TEMPER CYCLES FOR ABOVE ITEMS:

ITEM:	QUENCH	TEMPER	STRESS RELIEVE
1	880°C 1 1/2 Hr	665°C 3 Hr	629°C 1/2 Hr
2	1550°F 2	1140°F 2	1120°F 2
3	1550°F 2	1140°F 2	1120°F 2
4	1550°F 2	1120°F 2	1120°F 2
5	1550°F 2	1120°F 2	1120°F 2

[Signature]  
 W.R. Cook Quality Assurance

10/21/92 18:15 20215 219 MRAN TO FABRICATION FROM A&G ENGINEERING DUBOSE P.O.

4-12-95

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 12/18/95  
Name  
P.O. Box 1551, Raleigh, N. C. 27602-1551 Address Sheet 1 of 2
2. Plant Shearon Harris Nuclear Power Plant Unit 1  
Name  
P.O. Box 145, New Hill, N. C. 27562-0165 Address WR&A 94-APMG1  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Carolina Power and Light Company Type Code Symbol Stamp N/A  
Name  
New Hill, N.C. 27562-0165 Address Authorization No. N/A  
Expiration Date N/A
4. Identification of System Emergency Service Water (4065)
5. (a) Applicable Construction Code ASME Sect. III 19 74 Edition, Winter 1976 Addenda, \_\_\_\_\_ Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983

## 6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Hex Nuts 5/8-11	Allied Nut & Bolt Co., Inc.	Ht# 151603	N/A	Part #727-417-88 PO# 8F7794	1995	Replacement	No
Threaded Rod 5/8-11	Mackson, Inc.	Ht# 50035	N/A	Part #727-419-60 PO# 8C4141	1994	Replacement	No
Hex Nuts 3/4-10	Allied Nut & Bolt Co., Inc.	Ht# 4L10849	N/A	Part #727-414-99 PO# 8G2127	1995	Replacement	No
Threaded Rod 3/4-10	Hub, Inc.	Ht# 8090125	N/A	Part #727-419-78 PO# 7D7203	1992	Replacement	No

7. Description of Work Replaced bolting on flanged connections to containment fan cooler AH-2

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks See attached certificates of conformance. In-service leak test performed using MMP-012 dated 10/5/95 and filed with  
Applicable Manufacturer's Date Reports to be attached  
associated WR&A.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the  
ASME Code, Section XI: repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed W. A. Slover ECCS Supervisor Date 19 December, 1995  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the  
State or Province of North Carolina and employed by The Hartford Steam Boiler and Insurance Company of  
One State Street, Hartford, Connecticut 06102 have inspected the components described  
in this Owner's Report during the period 05/13/94 to 10/12/95, and state that  
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the  
examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer  
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with  
this inspection,

Edgar B. Doughton Commissions NC 1042  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec 27 19 95



# Allied Nut & Bolt Co., Inc.

## CERTIFICATE OF COMPLIANCE

### MATERIAL SPECIFICATION:

SA194 GRADE 2H

DATE: 05/25/95

### MATERIAL DESCRIPTION AND IDENTIFICATION:

5/8-11 UNF 2H HEAVY HEX NUT

SA194 GRADE 2H

HTY 151603 4TH 622 222 PCS.

ASME SECTION III CLASS 2 NC 1974 EDITION THRU W'75 ADDENDA  
10CFR21 APPLIES

CUSTOMER P.O. NO.: 8F7794AB

ALLIED INVOICE NO.: 78092

-----  
This material was supplied under Allied's OSC No. 529 which expires on May 3, 1997. Test results and operations are in compliance with the requirements of the material specifications and the specific requirements of Section III paragraphs where designated by the purchaser unless otherwise noted under remarks.  
-----

### REMARKS:

ALL MATERIAL IS IN CONFORMANCE WITH THE C.P. & L. PURCHASE ORDER REQUIREMENTS. MATERIAL IS STAMPED WITH JOB, SMT'S, MFG. MARK, GRADE AND TRACE. PARTS WERE 100% VISUALLY INSPECTED. CONE STRIP PROOF LOAD TEST - 32,150# OK

ALLIED NUT & BOLT CO., INC.

*James Mascarella*  
James Mascarella  
Q/CP Product Support

QA DOCUMENT  
REVIEWED  
BY  
DATE: 05/25/95  
ALLIED NUT & BOLT CO., INC.  
SALES DEPT. - D.C. BIRM.



(3)

MACKSON, INCORPORATED  
 P.O. BOX 12067  
 2346 SOUTHWAY DRIVE  
 ROCK HILL, SOUTH CAROLINA 29730  
 (803)329-6545

TO: CAROLINA POWER & LIGHT  
 HARRIS NUCLEAR PLANT  
 OPS RCVG BLDG SR1134  
 NEW HILL, NC 27562

DATE OF SHIPMENT: December 9, 1994

**SUBJECT: CERTIFICATE OF COMPLIANCE**

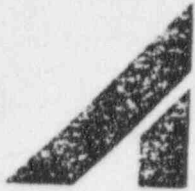
MACKSON, INC. CERTIFIES THAT THE MATERIALS FURNISHED TO YOU ON YOUR PURCHASE ORDER SC4141CH WAS PROCESSED IN ACCORDANCE WITH MACKSON INCORPORATED. QSC# 554 EXPIRATION DATE MARCH 15, 1997 AND QUALITY SYSTEM MANUAL DATED OCTOBER 11, 1994 REVISION 4.

ITEM	QUANTITY
1) PART# 727-419-60 5/8-11 X 6' ALL THREAD ROD SA193 GRADE B7 HEAT# 50035 HEAT CODE "NAV"	60 FT.

THIS MATERIAL IS IN ACCORDANCE WITH ALL THE REQUIREMENTS OF CAROLINA POWER & LIGHT PO# SC4141CH, SITE SPEC. 055 REV.8, AND ASME SECTION III CLASS 2, 1974 EDITION WINTER 1976 ADDENDA.

*Thomas R. Sharp*  
 \_\_\_\_\_  
 QUALITY ASSURANCE MANAGER

December 9, 1994  
 \_\_\_\_\_  
 DATE



Allied Nut & Bolt Co., Inc.

Member of the Allied Group

520 Herzog Blvd  
P.O. Box 60670  
King of Prussia, Pa 19406

(610) 275-2200  
800-ALLIED-3  
FAX (610) 275-4197

CERTIFIED MATERIAL TEST REPORT AND C OF C

CUSTOMER: CAROLINA POWER & LIGHT CO. DATE: August 16, 1995

CUSTOMER P.O. No: 8G2127AS ITEM No: 1

QUANTITY SHIPPED: 58

ALLIED INVOICE No: 78703

ITEM DESCRIPTION: 3/4-10UNC2B HEX NUT, SA194 GRADE 2H - ASME SECTION III, CLASS 2, NC2610 1974 EDITION THRU WINTER OF 1976 ADDENDA...10CFR21 APPLIES

HEAT NUMBER: 4L10849 ✓

TRACE CODE: P4 ✓

MATERIAL IS STAMPED WITH ALLIED'S MFG. MARK, GRADE, TRACE AND SUPPLEMENT MARK (-).

CHEMISTRY:

C=.43 Mn=.78 Si=.22 S=.016 P=.020

HEAT TREAT DATA: MIN. TEMPERING TEMP. 850°F

MECHANICAL PROPERTIES:

HARDNESS: RC 27 HARDNESS AFTER 24HRS @ 1000°F: RB 97 ✓

PROOF LOAD: MANDREL - 50,100# OK ✓

120°F CONE STRIP TEST: 38,850# OK ✓

WE CERTIFY THAT THE CONTENTS OF THIS REPORT ARE CORRECT AND THAT ALL TEST RESULTS AND OPERATIONS WERE IN COMPLIANCE WITH THE REQUIREMENTS OF THE SPECIFICATION AND CP&L'S PURCHASE ORDER UNLESS OTHERWISE NOTED UNDER REMARKS.

REMARKS: ABOVE LISTED MATERIAL IS IN COMPLIANCE WITH CUSTOMER'S PURCHASE ORDER REQUIREMENTS. THE MATERIAL IS IN ACCORDANCE WITH ALLIED'S QUALITY ASSURANCE MANUAL, REV. 10, DATED 3/8/94. PARTS WERE 100% VISUALLY INSPECTED.

ALLIED NUT & BOLT CO., INC. BY:

*James Muscarella*  
James Muscarella, Product Support

CAPROBENT  
REVIEW  
BY  
DATE: 8/10/95  
ALLIED NUT & BOLT CO. INC.

DEC 27 1992 18119 FROM HUB, ENR. DEPT. TO CARDINAL P. 82



ENERGY & PROCESS DIVISION  
2146-B FLINTSTONE DRIVE • TUCKER, GEORGIA 30085 • 404/834-3101

## MATERIAL CERTIFICATION

CUSTOMER: CAROLINA POWER & LIGHT (SHEARON FARRIS)  
 CUSTOMER P.O. NUMBER: 7D7203CH  
 PACKING SLIP NUMBER: 114232EVD (DIRECT SHIPMENT)  
 DESCRIPTION: 206'0" - 3/4"-10 X R/L ALL THREAD ROD SA193  
 GR.B7 HT.8090125 H/C:H2 MFG:CIPY ITEM# 1  
 202'9" - 1/2"-13 X R/L ALL THREAD ROD SA193  
 GR.B7 HT.8096522 H/C:H5 MFG:CIPY ITEM# 2  
 ASME SECTION II, PART A  
 1974 EDITION THRU WINTER 1976 ADDENDA  
 STATE SPAC. 055, REV. 8 APPLIES

Based on review of supporting documentation, we hereby certify that to the best of our knowledge and belief, the material described above is in compliance with ASME Section III Class 2, Subsection NC, 1974 EDITION THRU WINTER 1976 ADDENDA of the Boiler and Pressure Vessel Code, your purchase order, and that all required inspections and tests have been performed with satisfactory results.

The material was purchased from a qualified source and is being supplied in accordance with the Energy & Process Div. Quality Systems Certificate (Materials) Number QSC-332 which expires April 28, 1993, meeting NCA-3800.

The provisions of NRC 10CFR21 apply to this order, and no weld repair was performed.

Hub QAM Rev. 12, DTD. 3/22/91.

*Doug Walker*  
 SIGNED  
*Lead Auditor*  
 TITLE  
 12-29-92  
 DATE

cc: Customer file

Attachments: 8

• PIPE • VALVES • FITTINGS •  
 • PLATE • SHAPES • PADS • WELDS •  
 • QSC 422 • QSC 654 •

1. FOR: CAROLINA POWER & LIGHT CO.

CUSTOMER P.O. No. 253820AV

TEXAS BOLT ORDER No. 187075

6/16/86 RG

# TEXAS BOLT COMPANY

P. O. BOX 1211

HOUSTON, TEXAS 77251-1211

## REPORT OF PHYSICAL AND CHEMICAL TESTS

01. 86-3063

02. 86-3060

03. 86-3061

04. 86-3064

05. 86-3059

REPORT No. 06. 86-3062

10 CFR 21 APPLIES

NCA 3800 APPLIES

ASME SA193-83 GRADE B7

"REPLACEMENT"

SPECIFICATIONS:

ITEM	Description	Material	Quantity	No. Pcs. Tested	Strip Blech Tensile	Ultimate Tensile PSI	Yield Strength 2% Strength	Elong 2% %	RA %	Hardness	Minimum Tempering Temperature
	FINISHED HEX HEAD BOLTS										
	PART 727-411-35										
	01. 5/8" x 5	4140	50	2		139,800	124,400	19.7	59.8		1100°F.
	PART 727-411-76										
	02. 3/4" x 1	4140	20	2		138,800	123,500	19.9	59.6		1100°F.
	PART 727-411-84										
	03. 3/4" x 1-1/2	4140	20	2		143,800	128,500	20.2	60.3		1100°F.
	PART 727-411-92										
	04. 3/4" x 2	4142	20	2		135,800	120,500	18.9	58.7		1100°F.
	PART 727-412-00										
	05. 3/4" x 2-1/2	4142	40	2		140,900	125,700	19.8	60.6		1100°F.
	PART 727-412-26										
	06. 3/4" x 3-1/2	4140	40	2		138,300	123,100	18.7	59.8		1100°F.

"ALL MATERIAL IS OF U.S. ORIGIN AND MANUFACTURE."

"ALL MATERIAL IN ACCORDANCE WITH ASME SA614-83."

Item No.	Visual/Physical Inspection			Heat Number	C	Mn	Si	S	P	Cr	Ni	Mo	V
	No. Tested	Accepted	Rejected										
01.	50	50	0	8076601 ✓	.380	.87	.25	.032	.011	.90		.22	
02. & 03.	40	40	0	N36036 ✓	.40	.84	.23	.018	.014	.89		.19	
04.	20	20	0	8088856 ✓	.410	.92	.22	.029	.012	1.01		.23	
05.	40	40	0	6050432 ✓	.420	.92	.22	.022	.008	.95		.16	
06.	40	40	0	L24856 ✓	.39	.88	.27	.015	.008	.94		.20	

"VISUAL INSPECTION PER SA614-83 PAR. RU."

"ALL MATERIAL IS FURNISHED IN ACCORDANCE WITH TEXAS BOLT COMPANY'S QUALITY PROGRAM MANUAL REV. 7, DATED 4-26-83, WHICH WAS AUDITED AND APPROVED BY CP & L CO. 3-3-86."

"ALL MATERIAL IS IN ACCORDANCE WITH ASME SECTION III, CLASS 2, 1974 EDITION INCLUDING THE WINTER 1976 ADDENDA."

INSPECTOR EVALUATION APPROVED BY:

EDWARD J. CHARANZA, LEVEL III INSPECTOR

HEAT TREAT TIME AND TEMPERATURE

QUENCH - 1600°F. 1 HOUR 15 MIN.

TEMPER - 1120°F. 1 HOUR 15 MIN.

STATE OF TEXAS  
COUNTY OF HARRIS

Subscribed and sworn to before me this 16th day of JUNE, 19 86

*Blanca E. Bernudez*  
Notary public in and for Harris County, Texas.  
My commission expires May 31, 1989

19820959E

I certify the above results to be correct as contained in the records of the company.

*Edward J. Charanza*  
N.D.E. LEVEL III INSPECTOR

*6-16-86*  
*Ed*

# TEXAS BOLT COMPANY

PURCHASING

FEB 21 1990

Manufacturers of Industrial Fasteners

3233 WEST 11th ST. \* P.O. BOX 1211

HOUSTON, TEXAS 77251-1211

CABLE "TEXBOLT"

PHONE 869-7111  
AREA CODE 713

February 07, 1990

CAROLINA POWER & LIGHT CO.  
C/O ACCOUNTS PAYABLE UNIT  
P. O. BOX 1551  
RALEIGH, NC 27602

YOUR ORDER NO: 676369AS  
OUR ORDER NO: 234349  
\*\* AMENDED 2/13/90 SC

Gentlemen:

We hereby certify that the Cap Screws on your above order were produced, inspected, and/or tested in accordance with specifications:

ASME SA193 GRADE B7

These products meet all applicable requirements.

"ALL MATERIAL IS OF U.S. ORIGIN AND MANUFACTURE" "10 CFR 21 APPLIES"  
"VISUAL EXAMINATION PER SA514 PARA RU."

"ALL MATERIAL IS MANUFACTURED IN ACCORDANCE WITH TEXAS BOLT COMPANY'S CONTROL MANUAL REV.7, DATED 4-26-83, WHICH WAS QUALIFIED, SURVEYED, AND/OR AUDITED BY CAROLINA POWER & LIGHT CO. 2-8-89."

ALL MATERIAL IN ACCORDANCE WITH ASME SECTION III, CLASS 2, 1986 EDITION THRU 1988 ADDENDA.

ALL MATERIAL MEETS CUSTOMERS SITE SPEC. 55 REV.8.

Very truly yours,

*Edward J. Brakanza*  
EDWARD J. BRAKANZA  
NDE LEVEL III INSPECTOR

*KB*  
*4-25-90*

EJC/ml

State of Texas  
County of Harris

Subscribed and sworn to before me this 13 day of February, 1990.



Catherine I. Parker  
Notary public in and for Harris County, Texas  
My commission expires May 28, 1992

FOR CAROLINA POWER & LIGHT CO.

CUSTOMER P.O. NO. 678,579-5  
 \*\* AMENDED 2/13/90 SC  
 TEXAS BOLT ORDER NO. 234349  
 02/07/90 ml

TEXAS BOLT COMPANY  
 P.O. BOX 1211  
 HOUSTON, TEXAS 77251-1211

SPECIFICATIONS  
 1. 5/8" - 11 x 3-1/2

REPORT OF PHYSICAL AND CHEMICAL TESTS

ITEM	DESCRIPTION	REPORT	MATERIAL	QUANTITY	NO PCS TESTED	Spec No	Tensile PSI	Yield Strength	Elg %	RA	Hardness
1.	FINISHED HEX HEAD CAPSCREWS 5/8"-11 x 3-1/2		4140	50	3	1	138,000	119,000	19.8	60.7	30/31 RC 110/1

"ALL MATERIAL IS OF U.S. ORIGIN AND MANUFACTURE" 10 CFR 21 APPLIES"  
 "VISUAL EXAMINATION PER SA614 PARA RU"  
 "ALL MATERIAL IS MANUFACTURED IN ACCORDANCE WITH TEXAS BOLT COMPANY'S CONTROL MANUAL REV. 7, DATED 4-26-88, WHICH WAS QUALIFIED, SURVEYED, AND/OR AUDITED BY CAROLINA POWER & LIGHT CO. 2-8-89."  
 ALL MATERIAL IN ACCORDANCE WITH ASME SECTION III, CLASS 2, 1986 EDITION THRU 1988 ADDENDA.  
 ALL MATERIAL MEETS CUSTOMERS SITE SPEC. 55 REV. 8.

Note: 'Spec No' column indicates specification number at top of page.

ITEM NO.	Visual Inspection			HEAT NUMBER	C	Mn	Si	S	P	Cr	Ni	Mo	V
	NO TESTED	ACCEPTED	REJECTED										
1.	50	50	0	8868880	.41	.90	.23	.026	.016	1.01		.21	
Quench in oil 1600 deg F.				1 hour (s)	0 minute(s)		Temper		1120 deg F.	1 hour (s)	0 minute(s)		

OB  
 4-25-90

STATE OF TEXAS  
 COUNTY OF HARRIS  
 \*\* AMENDED 2/13/90 SC

Subscribed and sworn to before me this 13 day of February 1990  
*Catherine L. Parker*  
 Notary public in and for Harris County, Texas.  
 My commission expires May 28, 1992



Inspector Evaluation Approved by:  
 EDWARD J CHARANZA NDE LEVEL III INSPECTOR

I certify the above results to be correct as contained in the records of the company

*Edward J Charanza*  
 NDE LEVEL III INSPECTOR

FEB 21 1990

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 12/22/95  
Name \_\_\_\_\_
- P.O. Box 1551, Raleigh, N. C. 27602-1551 Sheet 1 of 2  
Address \_\_\_\_\_
2. Plant Shearon Harris Nuclear Power Plant Unit 1  
Name \_\_\_\_\_
- P.O. Box 165, New Hill, N. C. 27562-0165 WR&A 94-APMH1  
Address \_\_\_\_\_
3. Work Performed by Carolina Power and Light Company Repair Organization P.O. No., Job No., etc. \_\_\_\_\_  
Name \_\_\_\_\_
- New Hill, N.C. 27562-0165 Type Code Symbol Stamp N/A  
Address \_\_\_\_\_
- Authorization No. N/A  
Expiration Date N/A
4. Identification of System Emergency Service Water (4065)
5. (a) Applicable Construction Code ASME Sect. III 19 74 Edition, Winter 1976 Addenda, \_\_\_\_\_ Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983
6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Hex Nuts 5/8-11	Allied Nut & Bolt Co., Inc.	Ht# 151603	N/A	Part #727-417-88 PO# 8F7794	1995	Replacement	No
Threaded Rod 5/8-11	Mackson, Inc.	Ht# 50035	N/A	Part #727-419-60 PO# 8C4141	1994	Replacement	No
Hex Nuts 3/4-10	Allied Nut & Bolt Co., Inc.	Ht# 4L10849	N/A	Part #727-414-99 PO# 8G2127	1995	Replacement	No
Threaded Rod 3/4-10	Texas Bolt Co.	Ht# N36036	N/A	Part #727-419-78 PO# 253878	1985	Replacement	No

7. Description of Work Replaced bolting on flanged connections to containment fan cooler AH-3. See remarks.
8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks See attached certificates of conformance. In-service leak test performed using MMP-012 dated 10/5/95 and filed with  
Applicable Manufacturer's Date Reports to be attached  
associated WR&A. Corrosion damage to the face of some raised face flanges was repaired using Belzona material as reviewed and  
approved by ESR 95-00825. The application was limited so as not to substitute for Code pressure boundary wall.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the  
ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature] For L A Slover ECCS Supervisor Date 12/22, 19 95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the  
State or Province of North Carolina and employed by The Hartford Steam Boiler and Insurance Company of  
One State Street, Hartford, Connecticut 06102 have inspected the components described  
in this Owner's Report during the period 05/13/94 to 10/12/95, and state that  
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the  
examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer  
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with  
this inspection.

Edgar S Doughton Commissions NC 1042  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec 27 19 95





# Allied Nut & Bolt Co., Inc.

Member of the ASME Group	ASME CODE AND ALLIED INDUSTRIES
220 Irving Street P.O. Box 9878 Chicago, Illinois 60680	TEL: 312/231-1000 FAX: 312/231-1001

## CERTIFICATE OF COMPLIANCE

### MATERIAL SPECIFICATION:

DATE: 05/25/95

SA194 GRADE 2H

### MATERIAL DESCRIPTION AND IDENTIFICATION:

5/8-11UNC2H HEAVY HEX NUT

SA194 GRADE 2H

HTY 151603 TR 622 272 PCS.

ASME SECTION III CLASS 2 NC 1974 EDITION THRU W'76 ADDENDA 1  
10CFR21 APPLIES

CUSTOMER P.O. NO.: 8F7794AS

ALLIED INVOICE NO.: 78092

-----  
 This material was supplied under Allied's QSC No. 529 which expires on May 3, 1997. Test results and operations are in compliance with the requirements of the material specifications and the specific requirements of Section III paragraphs where designated by the purchaser unless otherwise noted under remarks.  
 -----

### REMARKS:

ALL MATERIAL IS IN CONFORMANCE WITH THE C.P. & L. PURCHASE ORDER REQUIREMENTS. MATERIAL IS STAMPED WITH JOHN. SMIT'S MFG. MARK, GRADE AND TRACE. PARTS WERE 100% VISUALLY INSPECTED. CONE STRIP PROOF LOAD TEST - 32,150# OR

ALLIED NUT & BOLT CO., INC.  
*James Muscarella*  
 James Muscarella  
 O/ Product Support

QA DOCUMENT  
 REVIEWED  
 BY  
 DATE: 05/26/95  
 ALLIED NUT & BOLT CO., INC.  
 SAL DELFO - D.C. SUBV.

(3)

MACKSON, INCORPORATED  
 P.O. BOX 12067  
 2346 SOUTHWAY DRIVE  
 ROCK HILL, SOUTH CAROLINA 29730  
 (803)329-6545

TO: CAROLINA POWER & LIGHT  
 HARRIS NUCLEAR PLANT  
 OPS RCVG BLDG SR1134  
 NEW HILL, NC 27562

DATE OF SHIPMENT: December 9, 1994

SUBJECT: CERTIFICATE OF COMPLIANCE

MACKSON, INC. CERTIFIES THAT THE MATERIALS FURNISHED TO YOU ON YOUR PURCHASE ORDER 8C4141CH WAS PROCESSED IN ACCORDANCE WITH MACKSON INCORPORATED. QSC# 554 EXPIRATION DATE MARCH 15, 1997 AND QUALITY SYSTEM MANUAL DATED OCTOBER 11, 1994 REVISION 4.

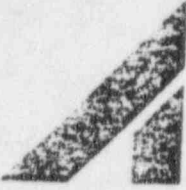
<u>ITEM</u>	<u>QUANTITY</u>
1) PART# 727-419-60 5/8-11 X 3' ALL THREAD ROD SA193 GRADE B7 HEAT# 50035 HEAT CODE "NAV"	60 FT.

THIS MATERIAL IS IN ACCORDANCE WITH ALL THE REQUIREMENTS OF CAROLINA POWER & LIGHT PO# 8C4141CH, SITE SPEC. 055 REV.8, AND ASME SECTION III CLASS 2, 1974 EDITION WINTER 1976 ADDENDA.

*Thomas R. Sharp*  
 \_\_\_\_\_  
 QUALITY ASSURANCE MANAGER

December 9, 1994  
 \_\_\_\_\_  
 DATE

12.14.94



Allied Nut & Bolt Co., Inc.

Member of the Allied Group

520 Hertzog Blvd  
P O Box 60670  
King of Prussia, Pa 19406

(610) 275-2200  
800-ALLIED 3  
FAX (610) 275-4197

CERTIFIED MATERIAL TEST REPORT AND C OF C

CUSTOMER: CAROLINA POWER & LIGHT CO. DATE: August 16, 1995  
CUSTOMER P.O. No: 8G2127AS ITEM No: 1  
QUANTITY SHIPPED: 58 ALLIED INVOICE No: 78703  
ITEM DESCRIPTION: 3/4-10UNC2B HEX NUT, SA194 GRADE 2H - ASME  
SECTION III, CLASS 2, NC2610 1974 EDITION THRU  
WINTER OF 1976 ADDENDA...10CFR21 APPLIES

HEAT NUMBER: 4L10849 ✓ TRACE CODE: P4 ✓  
MATERIAL IS STAMPED WITH ALLIED'S MFG. MARK, GRADE, TRACE AND  
SUPPLEMENT MARK (-).

CHEMISTRY:  
C=.43 ✓ Mn=.78 ✓ Si=.22 ✓ S=.016 ✓ P=.020 ✓

HEAT TREAT DATA: MIN. TEMPERING TEMP. 850°F

MECHANICAL PROPERTIES:  
HARDNESS: RC 27 HARDNESS AFTER 24HRS @ 1000°F: RB 97 ✓  
PROOF LOAD: MANDREL - 50,100# OK ✓  
120°F CONE STRIP TEST: 38,850# OK ✓

WE CERTIFY THAT THE CONTENTS OF THIS REPORT ARE CORRECT AND THAT ALL TEST RESULTS AND OPERATIONS WERE IN COMPLIANCE WITH THE REQUIREMENTS OF THE SPECIFICATION AND CP&L'S PURCHASE ORDER UNLESS OTHERWISE NOTED UNDER REMARKS.

REMARKS: ABOVE LISTED MATERIAL IS IN COMPLIANCE WITH CUSTOMER'S PURCHASE ORDER REQUIREMENTS. THE MATERIAL IS IN ACCORDANCE WITH ALLIED'S QUALITY ASSURANCE MANUAL, REV. 10, DATED 3/8/94. PARTS WERE 100% VISUALLY INSPECTED.

ALLIED NUT & BOLT CO., INC. BY: James Muscarella  
James Muscarella, Product Support

CAPTURED  
REVIEW  
BY  
DATE: 8/16/95  
ALLIED NUT & BOLT CO., INC.

POLINA POWER & LIGHT CO.

# TEXAS BOLT COMPANY

P. O. BOX 1211

HOUSTON, TEXAS 77251-1211

REPORT No. \_\_\_\_\_

10 CFR 21 APP. C5

NCA 3800 APPLIES ✓

ASME SA193 GRADE B7

SPECIFICATIONS:

CUSTOMER P.O. No. 253878BB ✓

ORDER No. 182679

## REPORT OF PHYSICAL AND CHEMICAL TESTS

Material	Quantity	No. Pcs. Tested	Step Block Tensile	Ultimate Tensile PST	Yield Strength	Elong %	RA %	Hardness	Minimum Tempering Temperature
4140	250	2		131,400 ✓	116,700 ✓	19.6	56.1		1100°F.
4142	250	2		136,900 ✓	121,400 ✓	19.5	56.9		1100°F.
4140	250	2		134,400 ✓	119,500 ✓	19.2	56.7		1100°F.
4140	200	2		134,400 ✓	119,600 ✓	19.7	56.3		1100°F.
4140	200	2		136,250 ✓	121,600 ✓	18.8	55.6		1100°F.

MATERIAL IS OF U.S. ORIGIN AND MANUFACTURE. "ALL MATERIAL IS FURNISHED IN ACCORDANCE WITH TEXAS BOLT COMPANY'S QUALITY CONTROL PROGRAM, REV. 7, DATED 4-26-89, WHICH WAS AUDITED AND APPROVED BY CP & L COMPANY 4-12-85." ALL MATERIAL IS IN ACCORDANCE WITH ASME SECTION III, CLASS 2, 1974 EDITION INCLUDING ADDENDA THROUGH WINTER 1976. "VISUAL INSPECTION PER SA614 PARA RU."

Heat Number	Visual Inspection			C	Mn	Si	S	P	Cr	Ni	Mo	V
	Weld	Accepted	Rejected									
A20030	250	250	0	.41 ✓	.82 ✓	.27 ✓	.014 ✓	.017 ✓	.87 ✓		.17 ✓	
AVG CHEM CHECK	250	250	0	.43 ✓	.84 ✓	.25 ✓	.016 ✓	.019 ✓	.89 ✓		.20 ✓	
6069119	250	250	0	.42 ✓	.80 ✓	.26 ✓	.027 ✓	.006 ✓	1.07 ✓		.20 ✓	
AVG CHEM CHECK	250	250	0	.44 ✓	.86 ✓	.27 ✓	.029 ✓	.009 ✓	1.04 ✓		.22 ✓	
N36036	200	200	0	.40 ✓	.84 ✓	.23 ✓	.018 ✓	.014 ✓	.89 ✓		.19 ✓	
AVG CHEM CHECK	200	200	0	.42 ✓	.86 ✓	.25 ✓	.019 ✓	.016 ✓	.91 ✓		.20 ✓	
65588	200	200	0	.44 ✓	.93 ✓	.26 ✓	.025 ✓	.010 ✓	.99 ✓		.19 ✓	
AVG CHEM CHECK	200	200	0	.42 ✓	.95 ✓	.24 ✓	.027 ✓	.012 ✓	.97 ✓		.21 ✓	
8877926	200	200	0	.410 ✓	.92 ✓	.23 ✓	.027 ✓	.011 ✓	.97 ✓		.21 ✓	
AVG CHEM CHECK	200	200	0	.413 ✓	.90 ✓	.21 ✓	.029 ✓	.013 ✓	.99 ✓		.23 ✓	

HEAT TREAT TIME AND TEMPERATURE BAR STOCK - GRADE B7  
 QUENCH - 1600°F. 1 HOUR 15 MINUTES ✓  
 TEMPER - 1120°F. - 1 HOUR 15 MINUTES ✓

HNP  
NRM

INSPECTION EVALUATION APPROVED BY:  
 H.D.B. LEVY, LEVEL II INSPECTOR

I certify the above results to be correct as contained in the records of the company.

25th day of \_\_\_\_\_ 1985

Z B S I P  
 12-19-85

Madalynne Stockton  
 H.D.B. LEVY II INSPECTOR

(C)

1. FOR: CAROLINA POWER & LIGHT CO.

# TEXAS BOLT COMPANY

01. 86-3063

02. 86-3060 03. 86-3064

03. 86-3061 05. 86-3059

REPORT No. 06. 86-3062

CUSTOMER P.O. No. 253820AV

P. O. BOX 1211

HOUSTON, TEXAS 77251-1211

SPECIFICATIONS: 10 CFR 21 APPLIES  
NCA 3800 APPLIES  
ASME SA193-83 GRADE B7  
"REPLACEMENT"

TEXAS BOLT ORDER No. 187075

## REPORT OF PHYSICAL AND CHEMICAL TESTS

6/16/86 RG

ITEM	Description	Material	Quantity	No. Pcs. Tested	Step Block Tensile	Ultimate Tensile PS1	Yield Strength 2%	Elong 2" %	RA. %	Hardness	Minimum Tempering Temperature
FINISHED HEX HEAD BOLTS											
PART 727-411-35											
	01. 5/8" x 5	4140	50	2		139,800	124,400	19.7	59.8		1100°F.
PART 727-411-76											
	02. 3/4" x 1	4140	20	2		138,800	123,500	19.9	59.6		1100°F.
PART 727-411-84											
	03. 3/4" x 1-1/2	4140	20	2		143,800	128,500	20.2	60.3		1100°F.
PART 727-411-92											
	04. 3/4" x 2	4142	20	2		135,800	120,500	18.9	58.7		1100°F.
PART 727-412-00											
	05. 3/4" x 2-1/2	4142	40	2		140,900	125,700	19.8	60.6		1100°F.
PART 727-412-26											
	06. 3/4" x 3-1/2	4140	40	2		138,300	123,100	18.7	59.8		1100°F.

"ALL MATERIAL IS OF U.S. ORIGIN AND MANUFACTURE."

"ALL MATERIAL IN ACCORDANCE WITH ASME SA614-83."

Item No.	Visual Inspection			Heat Number	C	Mn	Si	S	P	Cr	Ni	Mo	V
	No. Tested	Accepted	Rejected										
01.	50	50	0	8076601 ✓	.380	.87	.25	.032	.011	.90		.22	
02. & 03.	40	40	0	N36036 ✓	.40	.84	.23	.018	.014	.89		.19	
04.	20	20	0	8088856 ✓	.410	.92	.22	.029	.012	1.01		.23	
05.	40	40	0	6050432 ✓	.420	.92	.22	.022	.008	.95		.16	
06.	40	40	0	L24856 ✓	.39	.88	.27	.015	.008	.94		.20	

"VISUAL INSPECTION PER SA614-83 PAR. RU."

"ALL MATERIAL IS FURNISHED IN ACCORDANCE WITH TEXAS BOLT COMPANY'S QUALITY PROGRAM MANUAL REV. 7, DATED 4-26-83, WHICH WAS AUDITED AND APPROVED BY CP & L CO. 3-3-86."

"ALL MATERIAL IS IN ACCORDANCE WITH ASME SECTION III, CLASS 2, 1974 EDITION INCLUDING THE WINTER 1976 ADDENDA."

INSPECTOR EVALUATION APPROVED BY:  
EDWARD J. CHARANZA, LEVEL III INSPECTOR

HEAT TREAT TIME AND TEMPERATURE

QUENCH - 1600°F. 1 HOUR 15 MIN.

TEMPER - 1120°F. 1 HOUR 15 MIN.

STATE OF TEXAS  
COUNTY OF HARRIS

Subscribed and sworn to before me this 16th day of JUNE, 1986

I certify the above results to be correct as contained in the records of the company.

*Blanca E. Benavidez*  
Notary Public in and for Harris County, Texas.  
My commission expires May 31, 1989

19820959E

*Edward J. Charanza*  
N.D.E. LEVEL III INSPECTOR

6-26-86  
C.E.

PURCHASING

# TEXAS BOLT COMPANY

FEB 21 1990

Manufacturers of Industrial Fasteners

PHONE 889-7111  
AREA CODE 713

3233 WEST 11th ST. • P.O. BOX 1211

HOUSTON, TEXAS 77251-1211

CABLE "TEXBOLT"

February 07, 1990

CAROLINA POWER & LIGHT CO.  
C/O ACCOUNTS PAYABLE UNIT  
P. O. BOX 1551  
RALEIGH, NC 27602

YOUR ORDER NO: 676369AS  
OUR ORDER NO: 234349  
\*\* AMENDED 2/13/90 SC

Gentlemen:

We hereby certify that the Cap Screws on your above order were produced, inspected, and/or tested in accordance with specifications:

ASME SA193 GRADE B7

These products meet all applicable requirements.

"ALL MATERIAL IS OF U.S. ORIGIN AND MANUFACTURE" "10 CFR 21 APPLIES"  
"VISUAL EXAMINATION PER SA514 PARA RU."  
"ALL MATERIAL IS MANUFACTURED IN ACCORDANCE WITH TEXAS BOLT COMPANY'S CONTROL MANUAL REV.7, DATED 4-26-83, WHICH WAS QUALIFIED, SURVEYED, AND/OR AUDITED BY CAROLINA POWER & LIGHT CO. 2-8-89."  
ALL MATERIAL IN ACCORDANCE WITH ASME SECTION III, CLASS 2, 1986 EDITION THRU 1988 ADDENDA.  
ALL MATERIAL MEETS CUSTOMERS SITE SPEC. 55 REV.8.  
---  
---

Very truly yours,

*Edward J. Brananza*  
EDWARD J. BRANANZA  
NDE LEVEL III INSPECTOR

*KB*  
*4-23-90*

EJC/ml

State of Texas  
County of Harris

Subscribed and sworn to before me this 13 day of February, 1990.



*Catherine I. Parker*  
Notary public in and for Harris County, Texas  
My commission expires May 28, 1992

FOR CAROLINA POWER & LIGHT CO.

CUSTOMER P.O. NO. 87632215  
 \*\* AMENDED 2/13/90 SC  
 TEXAS BOLT ORDER NO. 234349  
 02/07/90 ml

TEXAS BOLT COMPANY  
 P.O. BOX 1211  
 HOUSTON, TEXAS 77251-1211

SPECIFICATIONS  
 1. 2088 2415 1100F 1.1

REPORT OF PHYSICAL AND CHEMICAL TESTS

ITEM	DESCRIPTION	REPORT	MATERIAL	QUANTITY	NO PCS TESTED	Spec No	Tensile PSI	Yield Strength	Elg %	RA	Hardness	Remarks
1.	FINISHED HEX HEAD CAPSCREWS 5/8"-11 x 3-1/2		4140	50	3	1	138,000	119,000	19.8	60.7	30/31 RC 1100F	
<p>"ALL MATERIAL IS OF U.S. ORIGIN AND MANUFACTURE" 10 CFR 21 APPLIES"</p> <p>"VISUAL EXAMINATION PER SA614 PARA RU "</p> <p>"ALL MATERIAL IS MANUFACTURED IN ACCORDANCE WITH TEXAS BOLT COMPANY'S CONTROL MANUAL REV. 7, DATED 4-26-83, WHICH WAS QUALIFIED, SURVEYED, AND/OR AUDITED BY CAROLINA POWER &amp; LIGHT CO. 2-8-89."</p> <p>ALL MATERIAL IN ACCORDANCE WITH ASME SECTION III, CLASS 2, 1986 EDITION THRU 1988 ADDENDA</p> <p>ALL MATERIAL MEETS CUSTOMERS SITE SPEC. 55 REV. 8.</p>												

Note: 'Spec No' column indicates specification number at top of page

ITEM NO	Visual Inspection			HEAT NUMBER	C	Mn	Si	S	P	Cr	Ni	Mo	V
	NO TESTED	ACCEPTED	REJECTED										
1.	50	50	0	8868880	.41	.90	.23	.026	.016	1.01		.21	
<p>Quench in oil 1600 deg F. 1 hour(s) 0 minute(s)</p> <p>Temper 1120 deg F. 1 hour(s) 0 minute(s)</p>													

87-55-90

STATE OF TEXAS  
 COUNTY OF HARRIS  
 \*\* AMENDED 2/13/90 SC

Subscribed and sworn to before me this 13 day of February 1990  
*Catherine J. Parker*  
 Notary public in and for Harris County, Texas



Inspector Evaluation Approved by:  
 EDWARD J CHARANZA NDE LEVEL III INSPECTOR

I certify the above results to be correct as contained in the records of the company

*Edward J Charanza*  
 NDE LEVEL III INSPECTOR

FEB 21 1990

My commission expires May 28, 1992



**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 12/22/95  
Name  
P.O. Box 1551, Raleigh, N. C. 27602-1551 Address Sheet 1 of 1
2. Plant Shearon Harris Nuclear Power Plant Unit 1  
Name  
P.O. Box 165, New Hill, N. C. 27562-0165 Address  
WR&A 94-APM11 Repair Organization P.O. No., Job No., etc.
3. Work Performed by Carolina Power and Light Company Type Code Symbol Stamp N/A  
Name  
New Hill, N.C. 27562-0165 Address Authorization No. N/A  
Expiration Date N/A
4. Identification of System Emergency Service Water (4065)
5. (a) Applicable Construction Code ASME Sect. III 1974 Edition, Winter 1976 Addenda, \_\_\_\_\_ Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983

## 6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Hex Nuts 3/4-10	Bowman Distribut'n Co.	N/A	N/A	Part #726-148-60 PO# 7H7609	1994	Replacement	No
Threaded Rod 3/4 - 10	Dubose National Energy Services	Ht# 70202	N/A	Part #727-419-78 PO# 8E4335	1992	Replacement	No

7. Description of Work Replaced bolting intentionally cut on flange connections to containment fan cooler AH-4. See remarks.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks See attached certificates of conformance. In-service leak test performed using MMP-012, completed on 10/5/95, and  
Applicable Manufacturer's Data Reports to be attached  
filed with WR&A 95-ABCN1. No C of C was available for Part# 726-148-60, this part is a commercial grade item dedicated for safety  
related use. Its dedication package is provided in lieu. Corrosion damage to the face of some raised face flanges was repaired  
Using Belzone material as reviewed and approved by ESR 95-00825. The application was limited so as not to substitute for Code  
pressure boundary wall.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the  
 ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature] FOR W.A. SLOVER ECCS Supervisor Date 12/22/95, 1995  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the  
 State or Province of North Carolina and employed by The Hartford Steam Boiler and Insurance Company of  
One State Street, Hartford, Connecticut 06102 have inspected the components described  
 in this Owner's Report during the period 05/13/94 to 10/12/95, and state that  
 to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
 Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the  
 examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer  
 shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with  
 this inspection.

[Signature] Commissions NC 1042  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 12-27 1995

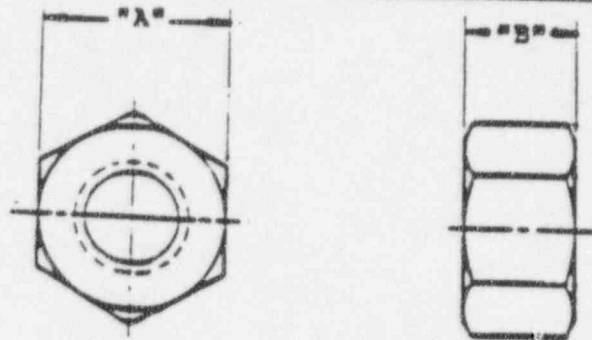
COMMERCIAL GRADE ITEM DEDICATION  
CRITICAL CHARACTERISTICS

ITEM DESCRIPTION: HEAVY HEX HEAD NUTS ( PER ANSI B18.2.2 ) MANUFACTURER: VARIOUS CATALOG PART NUMBER: VARIOUS MODEL NUMBER: N/A CP&L PART NUMBER: VARIOUS		
DESIGN FUNCTION: USED IN BOLTED CONNECTIONS FOR ELECTRICAL/I & C, CIVIL, AND MECHANICAL APPLICATIONS. ( NON-ASME APPLICATIONS )		
SAFETY CLASSIFICATION: NUCLEAR SAFETY RELATED		
CRITICAL CHARACTERISTIC APPLICABILITY AND LIMITATIONS: APPLIES TO ANSI B18.2.2 HEAVY HEX HEAD NUTS, UNC THREAD SERIES, CLASS 2B FIT, AND FOLLOWING MATERIAL TYPES; ASTM A307 Gr. A & B A194 Gr. 2H & 8 A563 Gr. A, B, & C		
SAMPLE SIZE : PER QVS-402		
METHOD 1 CRITERIA All standards to latest edition unless noted otherwise in Purchase Order		
CRITICAL CHARACTERISTIC FOR ACCEPTANCE	TEST/ INSPECTION	ACCEPTANCE VALUE
MATERIAL ULTIMATE TENSILE STRENGTH	BREINELL HARDNESS TEST, ROCKWELL OR EQUIVALENT HARDNESS TEST.	A307 Gr. A (1 1/2" - 4") -- 121 ≤ BHN ≤ 211 OR 69 ≤ HRB ≤ 110 Gr. B (1/4" - 4") -- 121 ≤ BHN ≤ 212 OR 69 ≤ HRB ≤ 95 A194 Gr. 2H (≤ 1 1/2") -- 248 ≤ BHN ≤ 752 OR 24 ≤ HRC ≤ 38 2H (> 1 1/2") -- 212 ≤ BHN ≤ 352 OR HRB ≥ 95 AND HRC ≤ 38 Gr. B (ALL SIZES) -- 126 ≤ BHN ≤ 300 OR 60 ≤ HRB ≤ 105 OR HRB ≥ 60 AND HRC ≤ 32 A563 Gr. A (1/4" - 4") -- 116 ≤ BHN ≤ 302 OR HRB ≥ 68 AND HRC ≤ 32 Gr. B (1/4" - 1 1/2") -- 121 ≤ BHN ≤ 302 OR HRB ≥ 69 AND HRC ≤ 32 Gr. C (1/4" - 4") -- 143 ≤ BHN ≤ 352 OR HRB ≥ 78 AND HRC ≤ 38
DIMENSIONS - NOMINAL DIAMETER, THICKNESS, AND WIDTH ACROSS FLATS THREADS PER INCH	DIMENSIONAL CHECK	PER PAGE 2 of 2. PER P.O.
THREAD INTEGRITY	BOLT ENGAGEMENT	APPROPRIATE SIZE BOLT WILL COMPLETELY ENGAGE IN NUT.
MATERIAL TYPE - STAINLESS vs CARBON STEEL	MAGNET TEST	ATTRACTION TO CARBON STEEL
NUT MARKINGS ( IF REQUIRED )	VISUAL CHECK	A194 Gr. 2H - MARKED WITH A 2H or 2HB Gr. B - MARKED WITH A B or 8B A563 Gr. A & B - NOT REQUIRED TO BE MARKED, BUT MAY BE MARKED WITH THE GRADE LETTER SYMBOL. A563 Gr. C - MARKED WITH 3 CIRCUMFERENTIAL MARKS 120° APART
COATINGS	VISUAL CHECK	PRESENCE OF COATINGS PER P.O.

APPROVALS: Approvals for previous revisions are on file in Document Control

REV. NO.	PREPARED BY/ DATE	VERIFIED BY/ DATE	PROJ. ENGR./ DATE	PRIN. OR RES. / DATE
4	<i>Jerald Morton</i> 2/17/94	<i>Gregory O. White</i> 2/17/94	<i>[Signature]</i> 2/17/94	<i>[Signature]</i> 2/17/94

COMMERCIAL GRADE ITEM DEDICATION  
CRITICAL CHARACTERISTICS



HEAVY HEX NUT

DIAMETER SIZE (NOMINAL)	WIDTH ACROSS FLATS "A"			THICKNESS "B"		
	BASIC	MIN	MAX	BASIC	MIN	MAX
1/4 (.250)	.500	.488	.500	.234	.218	.250
5/16 (.312)	.562	.546	.562	.297	.280	.314
3/8 (.375)	.687	.669	.688	.359	.341	.377
7/16 (.437)	.750	.728	.750	.422	.403	.441
1/2 (.500)	.875	.850	.875	.484	.464	.504
9/16 (.562)	.937	.909	.937	.546	.526	.568
5/8 (.625)	1.062	1.031	1.062	.609	.587	.631
3/4 (.750)	1.250	1.212	1.250	.734	.710	.758
7/8 (.875)	1.437	1.394	1.438	.859	.833	.885
1 (1.00)	1.625	1.575	1.625	.984	.956	1.012
1 1/8 (1.12)	1.812	1.756	1.812	1.109	1.079	1.139
1 1/4 (1.25)	2.00	1.938	2.00	1.218	1.187	1.251
1 1/2 (1.50)	2.375	2.30	2.375	1.469	1.433	1.505
1 3/4 (1.75)	2.750	2.662	2.750	1.718	1.679	1.759
2 (2.00)	3.125	3.025	3.125	1.969	1.925	2.013
2 1/2 (2.50)	3.875	3.750	3.875	2.453	2.401	2.505
3 1/2 (3.50)	5.375	5.200	5.375	3.437	3.370	3.506

NOTE: ALL DIMENSIONS ARE IN INCHES.

**CP&L**

**RECEIPT / INSPECTION REPORT**

DATE 04/21/94 LOCATION 03 HARRIS

DELIVER TO ALET1

PO# 7N7609 RECV# 105820

\*\* QA-REVIEW \*\*

LINE# 01 DATE RECV: 04/21/94

REQ. BY: ROL94098 RECV. BY: BFK

MAN. REQ# 7N7609 QTY RECV 500.00 PKSLIP QTY 500.00 BAL DUE 0.

CURRENT PART # 726-148-60  
NAME NUT, HX, HV, 3/4-10, S  
GR A-194-2H

VENDOR 79317  
BOWMAN DISTRIBUTION C/O  
BUYER WILLIAM S. HICKS  
PHONE 919 5466492

\*\*\*\*\* NAME PLATE DATA \*\*\*\*\*  
MATERIAL SPEC. A194, SPECIAL TEST/INSPECTION PER

ACCOUNT #	UNIT PRICE	PER	U/M	W.O. #	QTY	BIN	LOCATI
E60 1541	.188	C	EA	91-ASKA1 93-ALET1	29	4	QA-REVIEW
MQC		VENDOR INST.	U/I	U/QTY			STORAGE B
Q		E	EA				
INSP. REQ		AF			MIN		50
					MAX		500

\*\*\* QA RECPT & REVIEW \*\*  
 QTY RECV 500.00  
 QTY QA REV 500.00  
 QTY ACCEPTED 500.00  
 QTY REJECTED .00  
 QTY TO STORE 500.00

*H-001-00*  
*CGI-1012-B-R/4*

INSPECTOR Mary Beasley  
 DATE 4-25-94

SIGNATURE APPROVALS *[Signature]* 4/27/94

RECOMMENDED DISPOSITION \_\_\_\_\_

DISCREPANCY DESCRIPTION \_\_\_\_\_

**CAROLINA POWER AND LIGHT COMPANY**  
**WELDING SERVICES UNIT MEMORANDUM**

To: Receiving Inspection Project No.: 94-370 Date: 04/25/94

Investigators:

Robert Jordan  
Joe Alexander

Reviewed By:

*Robert Jordan*  
*Joe Alexander*

Distribution:

File

Approved by:

*Malcolm E. Reese*  
 Manager, Welding Services Unit

Subject: HNP-CGI-Mechanical Testing of Hex Nuts, CP&L PN 726-148-60, PO No. 7N7609-01.

On 04/21/94 Joe Alexander of the Welding Services Unit (WSU) received fifty hex nuts from Receiving Inspection at the HNP. The samples were identified as CP&L PN 726-148-60, PO No. 7N7609-01. The WSU was requested to perform a hardness test on each sample.

A Rockwell C scale hardness test was performed on each sample in accordance with ASTM A370-90. The results of the mechanical testing are presented in the table below and on page 2.

SAMPLE NO.	HARDNESS ROCKWELL C SCALE	SAMPLE NO.	HARDNESS ROCKWELL C SCALE	SAMPLE NO.	HARDNESS ROCKWELL C SCALE
1	26	11	27	21	28
2	27	12	27	22	28
3	25	13	26	23	28
4	29	14	27	24	27
5	25	15	28	25	27
6	27	16	26	26	28
7	26	17	28	27	28
8	27	18	28	28	28
9	27	19	28	29	28
10	27	20	27	30	26

Project No. 94-370

Page 2

SAMPLE NO.	HARDNESS ROCKWELL C SCALE	SAMPLE NO.	HARDNESS ROCKWELL C SCALE	SAMPLE NO.	HARDNESS ROCKWELL C SCALE
31	26	38	27	45	27
32	26	39	27	46	28
33	26	40	27	47	27
34	27	41	26	48	26
35	27	42	28	49	27
36	30	43	27	50	29
37	27	44	27		



Carolina Power & Light Company  
PO Box 1551  
Raleigh NC 27602

PAGE : 1 Purchase Order

LCR

Purchase order number	Loc	Date
7N7609AS	03	04/20/94
Agreement number		Change number

79317

BOWMAN DISTRIBUTION C/O  
R SPENCER-STE 150  
3700 CRESTWOOD PARKWAY  
DULUTH GA 30136

Ship to:  
CAROLINA POWER & LIGHT CO  
HARRIS NUCLEAR PLANT  
SR 1134  
NEW HILL, N.C. 27562

# QC RECEIVING

Mail original and 2 copies of invoice to:  
Carolina Power & Light Company  
c/o Purchase Order Invoicing Accounting  
PO Box 1551  
Raleigh, NC 27602

**IMPORTANT**

- FAX number (919) 546-6750
- Acknowledge receipt of this order promptly.
- This order is subject only to the *Terms and Conditions* appearing on the reverse of this order.

- Show our *Purchase order number* and *CP&L part number* on invoices, packing slips, packages, and correspondence referencing this material.
- The attached specification is hereby incorporated and made part of this order.

Requested by	Priority	Deliver to/W.O. no.	Receipt inspection	SC	Esc	MGC	Vendor instruction	Specification and date
ROL94	X	ALET1	AF			Q	E	
Documentation code(s)								Invoice payment terms
								00.00% 00 DAYS 30 NET DAYS
Ship via-freight terms	F.O.B.	Confirmed with						APR number
AIR	PP&ADD P/S	JANE HIXON BY PHONE ON 0420						
CP&L part number	Quantity	U/M	Required date	Vndr delivery date	Unit price	Per		

THE INDICATED INSTRUCTIONS AND/OR REQUIREMENTS ARE IMPOSED ON THIS MATERIAL:

\*\*\*\*\*  
 \* THERE SHALL BE NO CHANGES IN PART NUMBERS OR \*  
 \* ITEM DESCRIPTIONS UNLESS APPROVED BY CP&L. \*  
 \* SHOULD CHANGES BE REQUIRED, VENDOR SHALL PRO- \*  
 \* VIDE A REQUEST FOR CHANGE ON HIS LETTERHEAD \*  
 \* ADDRESSING THE INTERCHANGEABILITY OF THE \*  
 \* PARTS AND/OR PART NUMBERS AND A STATEMENT \*  
 \* THAT THE NEW PART/PART NUMBER SERVES THE \*  
 \* SAME FIT, FORM, AND FUNCTION AS THE OLD \*  
 \* PART/PART NUMBER. PAYMENT WILL NOT BE MADE \*  
 \* FOR MATERIAL THAT DOES NOT COMPLY WITH THE \*  
 \* REQUIREMENTS OF THE PURCHASE ORDER, AND SUCH \*  
 \* MATERIAL MAY BE RETURNED AT HIS EXPENSE. \*  
 \*\*\*\*\*

ALL MATERIAL SHALL BE, AS A MINIMUM, SECURELY TAGGED, STENCILED, OR MARKED AS APPROPRIATE TO PROVIDE TRACEABILITY TO CP&L'S PROCUREMENT DOCUMENT AND VENDOR SUPPLIED DOCUMENTATION, BY THE FOLLOWING:

1. VENDOR PART NUMBER
2. CP&L PURCHASE ORDER NUMBER

THE ABOVE IS IN ADDITION TO ANY SPECIFIC MARKING REQUIRED BY SPECIFICATION.

FOR SMALL PARTS NOT SUITABLE FOR INDIVIDUAL TAGGING OR MARKING, THE CONTAINER SHALL BE SECURELY TAGGED OR MARKED WITH ALL REQUIRED IDENTIFICATION.

CONTINUE





Carolina Power & Light Company  
 PO Box 1551  
 Raleigh NC 27602

Purchase order number 7N7609AS	Loc	Date 04/20/94
Agreement number	Change number	

79317

BOWMAN DISTRIBUTION C/O  
 R SPENCER-STE 150

Ship to:  
 CAROLINA POWER & LIGHT CO  
 HARRIS NUCLEAR PLANT

Mail original and 2 copies of invoice to:  
 Carolina Power & Light Company  
 c/o Purchase Order Invoice Accounting  
 PO Box 1551  
 Raleigh, NC 27602

**IMPORTANT**

- FAX number (919) 546-6750
- Acknowledge receipt of this order promptly.
- This order is subject only to the *Terms and Conditions* appearing on the reverse of this order.

- Show our *Purchase order number* and *CP&L part number* on invoices, packing slips, packages, and correspondence referencing this material.
- The attached specification is hereby incorporated and made part of this order.

Requested by	Priority	Deliver to/W.O. no.	Receipt inspection	SC	Esc	MGC	Vendor instruction E	Specification and date
Documentation code(s)								Invoice payment terms
Ship via-freight terms		F.O.B.	Confirmed with					APR number

Item	CP&L part number	Quantity	U/M	Required date	Vndr delivery date	Unit price	Per
VENDOR AUTHORIZES CP&L TO RETURN FREIGHT COLLECT ANY MATERIAL THAT IS NOT CORRECTLY MARKED. VENDOR FURTHER AGREES TO PROMPTLY CORRECT THE MARKING DISCREPANCY AND RETURN THE MATERIAL FREIGHT PRE-PAID TO CP&L.							

01	726-148-60	500	EA	05/19/94	04/21/94	18.800	C
NUT, HX, HV, 3/4-10, S GR A-194-2H							

*Handwritten:* 4-25-94

\*\*\*\*\* NAME PLATE DATA \*\*\*\*\*

MATERIAL SPEC. A194, SPECIAL TEST/INSPECTION PER  
 CGI-1012B, LATEST REV

\*\*\*\*\* MANUFACTURER'S PART #'S \*\*\*\*\*

58176 - BOWMAN DIS - 36658

CONFIRMING PURCHASE ORDER. DO NOT DUPLICATE.  
 (QTY. INC. TO MEET STANDARD PACKAGING.)

VENDOR INSTRUCTIONS

E - THIS IS CONSIDERED A "COMMERCIAL GRADE" ITEM.  
 THE VENDOR IS NOT REQUIRED TO BE ON THE  
 APPROVED SUPPLIERS LIST



Carolina Power & Light Company  
 PO Box 1551  
 Raleigh NC 27602

PAGE : 3 **Purchase Order**

Purchase order number 7N7609AS	Loc	Date 04/20/94
Agreement number		Change number

79317

BOWMAN DISTRIBUTION C/O  
 R SPENCER-STE 150

Ship to:  
 CAROLINA POWER & LIGHT CO  
 HARRIS NUCLEAR PLANT

Mail original and 2 copies of invoice to:  
 Carolina Power & Light Company  
 c/o Purchase Order Invoice Accounting  
 PO Box 1551  
 Raleigh, NC 27602

- FAX number (919) 546-6750
- Acknowledge receipt of this order promptly.
- This order is subject only to the *Terms and Conditions* appearing on the reverse of this order.

- Show our *Purchase order number* and *CP&L part number* on invoices, packing slips, packages, and correspondence referencing this material.
- The attached specification is hereby incorporated and made part of this order.

Requested by	Priority	Deliver to/W.O. no.	Receipt inspection	SC	Esc	MGC	Vendor instruction E	Specific... and date
Documentation code(s)								Invoice payment terms
Ship via-freight terms		F.O.B.		Confirmed with				APR number
CP&L part number	Quantity		U/M	Required date	Vndr delivery date	Unit price	Per	

ITEM TOTAL 94.00

P.O. TOTAL 94.00

DUBOSE NATIONAL ENERGY SERVICES, INC.  
900 INDUSTRIAL DRIVE // CLINTON, NC 29328  
Certificate of Conformance/Compliance/CMTR

Customer:

-----  
CAROLINA POWER & LIGHT  
SHEARON-HARRIS PLANT  
SR #1134  
NEW HILL, NC

27562

Date 3/30/95 Serial No. 40420

Our DC No. 103544

This material meets the requirements  
of your PO number 8E4335-CH

Item	Pieces	Description Specification	Grade	Heat # / Heat Code
3	4	1"-8 X 12' THRD ROD ASME SA193	PT#727-419-86 G B7 A&G	NAO
1	13	5/8"-11 X 12' THRD ROD ASME SA193	PT#727-419-60 G B7 A&G	NBA
2	8	3/4"-10 X 12' THRD ROD ASME SA193	PT#727-419-78 G B7 A&G	NAM

This material has been supplied in accordance with DuBose National Energy Services, Inc. Quality System Program Rev. 3, dated 06-21-94 in compliance with 10CFR50 APP. B. The contents of the report are correct and accurate and the results are in compliance with the material specification, the code, and the customer purchase order.

Based upon our review of the manufacturer's CMTR this material supplied in accordance with the 1974 Edition thru Winter 1976 Addenda, Section II & III NA3700/NCA3800, Subsection NC Class 2.

ASME Section II 1983 Edition Summer 1983 Addenda.  
NO IMPACT TESTING OR NDE PERFORMED.  
10CFR21  
ASME QSC 327 EXPIRES 3-31-96  
Spec. 55 Rev. 8

Ruth Barber-Rich 3-30-95  
James N Dailey, QA Manager Date  
Ruth Barber-Rich, Assistant QA Manager  
Laurie Dickson, Certification Engineer  
Tammy Williams, QA Technician

4-12-95

9711

A & G ENGINEERING II, INC.  
NUCLEAR REPORT OF PHYSICAL AND CHEMICAL TESTS  
AND CERTIFICATION OF COMPLIANCE

CUSTOMER: DUBOSE STEEL  
PARTS MARKED: NCA 3866.6  
CUSTOMER P.O. NO.: 1546-63  
A & G PACKING LIST NO.: 06669  
PREPARED BY: KL DATE: 8/25/92

A&G ENGINEERING II, INC REGISTERED TRADE MARK  
(-)  
REGISTER NO. 1,295,663

REPORT: 06669 Revised 11-20-92  
SPECIFICATIONS: ASME SA193 GR. B7  
ASME SEC. III NCA 3800, CLASS 2  
1989 EDITION THRU NO ADDENDA.  
10 CFR 50 APPEND "B" / 10 CFR 21 APPLIES

TOTAL P.02

Item No.	Description	Mat'l	Qty.	No. Pcs. Tested	Hardness After 24 Hrs. @	Ultimate Tensile	Proof Load	Yield	Elong	RA	Hardness	Heat Treat Data
1.	1 1/2-13 UNC(2A) X 12 FT. ITFL BAR ASME SA193 GR. B7	4140	118,960	1		1128,360		1112,840	24.5	61	282 HB	665 DEG C
2.	1 5/8-11 UNC(2A) X 12 FT. DITTO	4140	111,880	1		1134,000	✓	1122,000	21.4	60.0	30 RC	1140 DEG F
3.	1 3/4-10 UNC(2A) X 12 FT. DITTO	4140	8,040	1		1126,500	✓	1106,500	23.4	64.6	27 RC	1140 DEG F
4.	1 7/8-9 UNC(2A) X 12 FT. DITTO	4140	2,952	1		1133,000		1120,000	23.0	63.5	30 RC	1120 DEG F
5.	1 1/8 UNC(2A) X 12 FT. DITTO	4140	2,244	1		1138,600	✓	1123,000	21.0	59.8	31 RC	1120 DEG F

CAROLINA POWER & LIGHT  
PO#8E4335-CH Item#1,2,&3

Item No.	VISUAL INSP.	SA 614 RU	Heat No.	Heat Code	C	Mr.	Si	S	P	Cr	Ni	Mo	V							
1.	18,960	118,960	0	545170	LTB	1.43	.96	.25	1.914	1.017	11.02		.20							
2.	11,880	111,880	0	84746	NRA	1.43	.90	.22	1.020	1.024	1.98		.19							
3.	8,040	8,040	0	70202	NAM	1.43	.91	.22	1.013	1.013	1.00		.22							
4.	2,952	2,952	0	60274	NAM	1.42	.95	.20	1.020	1.022	1.98		.19							
5.	2,244	2,244	0	70213	NAO	1.41	.90	.24	1.022	1.013	1.00		.19							

DUBOSE  
 QA REVIEW  
 SATISFACTORY  
 Bbb: 11/24/92  
 INITIAL: DATE

MATERIAL MANUFACTURED/SUPPLIED IN ACCORDANCE WITH DUBOSE STEEL P.O. 81546-63  
AVG QSC 8455 EXPIRES JUNE 11, 1994  
NO WELD REPAIRS HAVE BEEN PERFORMED ON THIS MATERIAL.

We certify that the contents of this report are correct and accurate and that all test results and operations were in compliance with requirements of the material specifications and specific requirements of section III paragraphs designated by the purchaser.

THIS DOCUMENT MAY BE REPRODUCED UNALTERED, ONLY FOR THE PURPOSE OF CERTIFYING A LESSER QUANTITY OF THE MATERIAL SPECIFIED HEREIN. ALTERATION OR REPRODUCTION FOR ANY OTHER PURPOSE IS PROHIBITED.

*Dan McDevitt*  
W.R. Cook, Q.A.  
Dan McDevitt, Q.A.

THIS MATERIAL CONTAINS NO MERCURY CONTAMINATE

HEAT TREAT - OIL QUENCH AND TEMPER CYCLES FOR ABOVE ITEMS:

ITEM:	QUENCH	TEMPER	STRESS RELIEVE
1	880°C 1 1/2 Hr	665°C 3 Hr	629°C 1/2 Hr
2	1550°F 2	1140°F 2	1120°F 2
3	1550°F 2	1140°F 2	1120°F 2
4	1550°F 2	1120°F 2	1120°F 2
5	1550°F 2	1120°F 2	1120°F 2

*W.R. Cook*  
W.R. Cook Quality Assurance

DUBOSE P.O.

INQUIRY TO

20215 230 WASH DC-20-1992 14:52 FROM ASG ENGINEERING

10/21/90 18:15

11/24/92

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS  
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 1  
Name  
P.O. Box 1551, Raleigh, N. C. 27602-1551 Address Sheet 1 of 1
2. Plant Shearon Harris Nuclear Power Plant Unit 1  
Name  
P.O. Box 165, New Hill, N. C. 27562-0165 Address  
WR&A 94-AQU12 (ESR 95-00795)  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Carolina Power and Light Company Type Code Symbol Stamp N/A  
Name  
New Hill, N.C. 27562-0165 Address Authorization No. N/A  
Expiration Date N/A
4. Identification of System Auxiliary Feedwater (3065)
5. (a) Applicable Construction Code ASME Sect. III 1974 Edition, Winter 1976 Addenda, \_\_\_\_\_ Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1976

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Check Valve	Anchor-Darling	E-9074-1-2	187	1AF-106 2AF-V154SAB-1	1980	Repaired	Yes
Valve Cap	Carolina Power & Light Company	N/A	N/A	Part # 733-627-09	1995	Replacement	No

7. Description of Work Installed cap on leaking valve bonnet of 6" swing check valve.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks See attached Code Data report for valve. Cap designed and installed per ESR 95-00795. Pressure test performed was an  
Applicable Manufacturer's Date Reports to be attached  
inservice leak test per the guidance of Code Case N-416. The test was performed in conjunction with the Class 1 System Leakage  
Test conducted using EST-201 dated 10/8/95.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed W. Slove, SUPV ECLS Date 11 October, 19 95

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by The Hartford Steam Boiler and Insurance Company of One State Street, Hartford, Connecticut 06102 have inspected the components described in this Owner's Report during the period 05/13/94 to 10/11/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Edgar B. Dwyer Commissions NC 1042  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 10-11-95 19 95

RECEIVER / INSPECTION REPORT

DATE 09/15/95 LOCATION 03 HARRIS

PO# 8H2242 RECV# 256693 \*\* QA-REVIEW \*\*  
LINE# 01 DATE RECV. 09/15/95  
REQ. BY HUNT RECV. BY CLC  
MAN. REQ# 8H2242 QTY RECV 32.00 PKSLIP QTY 32.00 PAL DUE 0.00

CURRENT PART # 733-627-09 VENDOR 20977  
NAME PLATE, S, 1-1/2X43" X 26", SA516, GR. 7 DUBOSE NATIONAL ENERGY SER  
O\* BUYER TROY ELLIS, JR.  
PHONE 919 3464340

\*\*\*\*\* NAME PLATE DATA \*\*\*\*\*  
ASME SEC 3 1974 EDITION 76 ADDENDA

ACCOUNT # UNIT PRICE PER U/M W.D. # QTY BIN LOCATION  
E60 1541 32.813 L SF 94-AQUI2 3 QA-REVIEW

MOC VENDOR INST. REQ U/I U/I U/QTY STORAGE D  
Q NH SF

INSPEL REQ A MIN 0  
SPEC. & DATE SA516 GR. 70 MAX 0

\*\*\* QA RECPT & REVIEW \*\*

QTY RECV 32.00  
QTY QA REV 32.00  
QTY ACCEPTED 32.00  
QTY REJECTED .00  
QTY TO STORE 32.00

INSPECTOR *Vic Lual*

DATE 9-14-95

SIGNATURE \_\_\_\_\_  
APPROVALS \_\_\_\_\_

RECOMMENDED \_\_\_\_\_  
DISPOSITION \_\_\_\_\_

DISCREPANCY \_\_\_\_\_  
DESCRIPTION \_\_\_\_\_

DUBOSE NATIONAL ENERGY SERVICES, INC.  
 900 INDUSTRIAL DRIVE // CLINTON, NC 28328  
 Certificate of Conformance/Compliance/CMTR

## Customer:

-----  
 CAROLINA POWER & LIGHT  
 CP & L - SHEARON-HARRIS PLANT  
 STATE RD 1134  
 NEW HILL, NC 27562

Date 9/14/95 Serial No. 41679  
 Our DC No. 106470  
 This material meets the requirements  
 of your PO number 8H2242-CJ

Item	Pieces	Description Specification	Grade	Heat # / Heat Code
1	1	1 1/2" X 48" X 96" ASME SA516	PLATE PT#733-627-09 GR 70 BETHLEHEM	422J1081 J200342

This material has been supplied in accordance with DuBose National Energy Services, Inc. Quality System Program Rev. 4, dated 07-01-95 in compliance with 10CFR50 APP. B. The contents of the report are correct and accurate and the results are in compliance with the material specification, the code, and the customer purchase order.

Based upon our review of the manufacturer's CMTR this material supplied in accordance with the 1974 Edition thru 1976 Addenda, Section II & III NA3700/NCA3800.

10CFR21  
 ASME QSC 327 EXPIRES 3-31-96

*Ruth Barber Rich* 9-14-95  
 -----  
 James N Dailey, QA Manager Date  
 Ruth Barber-Rich, Assistant QA Manager  
 Laurie Dickson, Certification Engineer  
 Tammy Williams, QA Technician



11261



SOLD TO DUBOSE NATIONAL ENERGY SERVICES INC PO BOX 1098 ROSELAND NC 28382		SHIP TO DUBOSE NATIONAL ENERGY SERVICES INC NUCLEAR DIV HWY 24 W ROSELAND NC 28382		SHIPMENT NO. 409 - 11179	DATE SHIPPED 11/18/93	PILE NO. 9805	OR NO. 341358	PAGE NO. 1
				CAR OR VEHICLE IDENTITY CUST CUSTOMER			TRACK LOT NO. L7870	
				CUSTOMER P.O. NO. 3940-63			MILL ORDER NO. 80405-4673E	

**SPECIFICATION**  
ASME SA516 GR 70 PUB 1989 EDITION 1989 ADD. CH-V SA2085 PLY L 15/12 FTLBS  
AT-40F INFO L MILS & XSHR AT SAME TEMP. BEND TEST PER SA20 S14 NO WELD  
REPAIR --- PLT NORMALIZE --- IN ACCORD W/ACCEPTED QA PROGRAM DTD 1993 ASME  
SECT 3 NCA3800 & 10CFR21 & 10CFR50 NUCLEAR NON VESSELS & AS EVALUATED BY  
CUST REP  
NORMALIZED AT 1650 DEG F 1/2 HR PER INCH AIR COOLED

MERCURY IN ANY FORM HAS NOT BEEN USED IN THE  
PRODUCTION OF THIS ORDER. REVISED 12/3/93 - DELETED  
J200291 FROM UR#341358. ADDED TO UR#377422 REVISED -  
12/22/93 "NO WELD REPAIR" J200342, J200286, J200292  
REVISED COPY 5/18/95  
1051Z QUALITY STEEL MELTED & MANUFACTURED IN THE USA

ITEM	SERIAL NO.	PAT. NO.	HEAT NUMBER	SIZE AND QUANTITY					YIELD KSI	TENSILE STRENGTH KSI	ELONG		RED. OF AREA (%)	ACTUAL THICKNESS TEN. TESTED	BEND	HARD	PRODUCT GRADE SIZE
				NO. PCS.	THICKNESS IN	WIDTH IN	LENGTH IN	WEIGHT LBS			IN	%					
(H67)MFST CUST 01 J200342	ITEM NO:0014 422J1081			002	1.5000	96.000	240.000	19602	49.6	75.8	2	32					
(H67)MFST CUST 02 J200286	ITEM NO:0013 411J5851			001	1.0000	96.000	240.000	6534	43.7	74.6	8	28			OK		
(H67)MFST CUST 03 J200292	ITEM NO:0012 411J2211			001	0.7500	96.000	240.000	4901	48.7	76.4	8	27			OK		

SERIAL NO.	PAT. NO.	HEAT NUMBER	THICKNESS	IMPACT TEST RESULTS												OTHER TESTS PERFORMED			
				CODE	TYPE	SIZE MM	DIR	TEST TEMP F	ENERGY FTLB				SHEAR(%)				LAT. EXP.		
									1	2	3	AVG.	1	2	3		1	2	3
J200342		422J1081		B647	CH-V	10X10.0	L	-040	57.0	47.0	51.0		38	33	38	45	30	48	<div style="border: 1px solid black; padding: 5px;">                     DUBOSE QA REVIEW SATISFACTORY  <i>HW 5-23-95</i>                      INITIAL DATE                 </div>
J200286		411J5851		B458	CH-V	10X10.0	L	-040	67.0	66.0	58.0		47	45	44	64	54	59	
J200292		411J2211		B494	CH-V	10X10.0	L	-040	44.0	42.0	52.0		42	36	47	42	36	43	

*May Anne Maximino*

HEAT NUMBER	TYPE	CHEMICAL ANALYSIS(%)													
		C	MIN	P	S	SI	CU	NI	CR	MO	V	CB	N	AL	
422J1081	HEAT	0.22	1.05	.012	.008	0.210	0.02	0.02	0.03	.004	.003	.002			
411J5851	HEAT	0.23	1.03	.014	.006	0.190	0.01	0.02	0.03	.005	.003	.003		.061	
411J2211	HEAT	0.27	1.02	.023	.012	0.190	0.02	0.02	0.04	.003	.002	.001		.045	

I CERTIFY THAT THE ABOVE RESULTS ARE A TRUE AND CORRECT COPY OF ACTUAL RESULTS OBTAINED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIFICATION LISTED ABOVE.  
SUSCRIBED AND SWORN TO BEFORE ME  
THIS 18TH DAY OF May 1995  
-NOTARY PUBLIC NY COMMISSION  
EXPIRES JANUARY 1, 1997  
G. D. MARSH PER MEJ  
Supt. QUALITY ASSURANCE DEPARTMENT  
THIS TEST REPORT CANNOT BE ALTERED AND MUST BE TRANSMITTED IN CONTACT WITH ANY SUBSEQUENT TEST REPORTS, IF REQUIRED

CAROLINA POWER & LIGHT  
PO#8H2242-CJ Item#1

*GD Marsh*

FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES\*

As Required by the Provisions of the ASME Code Rules

1. Manufactured by Anchor/Darling Valve Co.  
701 First St., Williamsport, PA 17701 Order No. E-9074  
(Name & Address of Manufacturer)

2. Manufactured for Carolina Power & Light  
Shearon Harris Nuclear Power Plant Unit #1 Order No. NY 435013  
New Hill, NC (Name and Address)

3. Owner Carolina Power and Light

4. Location of Plant Shearon Harris Nuclear Power Plant Unit #1

5. Pump or Valve Identification E-9074-1-2  
6" 900# SWING CHECK VALVE  
Brief description of service for which equipment was designed

(a) Drawing No. W7820149 R/B Prepared by Anchor/Darling Valve Co.

(b) National Board No. 187

6. Design Conditions 1660 600  
2160 100 psf  
(Pressure) (Temperature)

7. The material, design, construction, and workmanship complies with ASME Code Section III, Class 2  
 Edition 1971, Addenda Date Summer '72, Case No. N/A

Part No.	Material Spec. No.	Manufacturer	Remarks
<b>(a) Castings</b>			
<u>Body HT. # 67638</u> ✓ <u>S/N 97207</u>	<u>SA215-WCB</u>	<u>Quaker Alloy Casting Co.</u>	
<b>(b) Forgings</b>			
<u>Bonnet HT. # 6057494</u> ✓ <u>S/N 2</u>	<u>SA105</u>	<u>Cann and Saul Steel Co.</u>	
<u>Disc HT. # 6057494</u> ✓ <u>S/N 2</u>	<u>SA105</u>	<u>Cann and Saul Steel Co.</u>	

REVIEWED BY RS  
G. & V. Co.  
 BASCO ENGINEERING  
 DESIGN VERIFIED BY [Signature]  
 BASCO VOA REP.

\*SUPPLEMENTAL SHEETS IN FORMS OF LETTERS, COMMENTS OR SPECIFICATIONS MAY BE JOINED HERETO. THIS FORM IS 8 1/2" x 11". \*\* INFORMATION IN FORMS 1, 2, 3, 4 AND 5 IS TO BE FILED SEPARATELY IN THE RECORDS OF THE USER. \*\* THIS FORM IS THE PROPERTY OF BASCO AND SHOULD BE RETURNED TO BASCO AT THE END OF THE TERM.

0 0 2 7  
 7 3

FORM NPV-1 (back)

Part No.	Mechanical Spec. No.	Manufacturer	Remarks
(c) Bolting			
H.P. Cover Studs HT # 8898539	SA193-27	R. F. C. Corporation	
H.P. Cover Nuts HT # 413306	SA194-2H	Nuts, Incorporated	
(d) Other Parts			
Gask Pat. Ring HT # 83390-21	SA515-70	Mills Alloy Steel Co.	
Hinge Pin Cover HT # 38821-23	SA515-70	Mills Alloy Steel Co.	

3. Hydrostatic test 3250 psi.

CERTIFICATION OF DESIGN

Design information on file as Anchor/Darling Valve Co.  
 Stress analysis report on file as \_\_\_\_\_  
 Design specifications certified by Arthur J. Rossi (1) Prof. Eng. State N.C. Reg. No. 4294  
 Stress analysis report certified by \_\_\_\_\_ (1) Prof. Eng. State \_\_\_\_\_ Reg. No. \_\_\_\_\_  
 (1) Signature not required. List name only.

To certify that the statements made in this report are correct.

Date 6/16 : 19 80 signed Anchor/Darling Valve by D. H. Phillips  
(Manufacturer)  
 Certificate of Authorization No. N1712 expires 4/15/87  
D. A. Engineer

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Pennsylvania and employed by Commercial Union Ins. Co. of BOSTON, MASS.

have inspected the equipment described in this Data Report on 11-27-79/BA 6-16 1980 and state that to the best of my knowledge and belief, the manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Code, Section III.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 6-16 : 19 80

Paul D. Maroney  
 Commissioner  
 Bureau of Professional and Vocational Examinations

I.D. No. 1774  
 Commission Pennsylvania #0972  
(National Board, State, Province and C.)

737 052

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 12/14/95  
Name  
P.O. Box 1551, Raleigh, N. C. 27602-1551 Sheet 1 of 1  
Address
2. Plant Shearon Harris Nuclear Power Plant Unit 1  
Name  
P.O. Box 165, New Hill, N. C. 27562-0165 WR&A 95-ABCN1 (ESR95-00059)  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Carolina Power and Light Company Type Code Symbol Stamp N/A  
Name  
New Hill, N.C. 27562-0165 Authorization No. N/A  
Address Expiration Date N/A
4. Identification of System Service Water System (4065)
5. (a) Applicable Construction Code ASME Sect. III 1974 Edition, Winter 1976 Addenda, \_\_\_\_\_ Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983
6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Heat Exchanger	American Air Filter	906820-830	1135	1CV-E005:006 AH-4-1X	1980	Replaced	Yes
Heat Exchanger	AAF International	906561-A2	2624	1CV-E005:006 AH-4-1X	1995	Replacement	Yes

7. Description of Work Replace containment fan cooler unit cooling coil containing plugged tubes.
8. Tests Conducted: Hydraulic  Pneumatic  Nominal Operating Pressure   
Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks See attached manufacturer's data reports. Inservice leak test performed using MMP-012, enclosed with referenced WR/A.  
Applicable Manufacturer's Data Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the repair or replacement ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed Mark A. Papp for WAS ECCS Supervisor Date 12/14, 19 95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by The Hartford Steam Boiler and Insurance Company of One State Street, Hartford, Connecticut 06102 have inspected the components described in this Owner's Report during the period 05/13/94 to 10/12/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Edgar B. Dayton Commissions NC 1042  
Inspector's Signature National Board, State, Province, and Endorsements

Date 12-15 19 95

FORM N-1 CERTIFICATE HOLDERS DATA REPORT FOR NUCLEAR VESSELS  
As Required by the Provisions of the ASME Code, Section III, Division 1

1. Manufactured and certified by: AAF INTERNATIONAL - P.O. BOX 35690 - LOUISVILLE, KY 40232-5690  
(name and address of N Certificate Holder)

2. Manufactured for: CAROLINA POWER AND LIGHT COMPANY  
(name and address of purchaser)

3. Location of Installation: HARRIS NUCLEAR PLANT, SR1134, NEW HILL, NC 27562  
(name and address)

4. Type: HORIZ. HEAT EX. 906561-A2 N/A MB-200-123 2624 1995  
(hertz or vert.) (Tank, jacket, heat ex.) (Cert. Holder's seal no.) (CRN) (drawing no.) Nat'l. Bd. No. (yr. built)

5. ASME Code, Section III, Division 1: 1977 S1977 2 N-249-8  
(edition) (addenda date) (class) (Code Case no.)

Items 6-10 inclusive to be completed for single wall vessels, or shells of heat exchangers.

6. ANNEALED  
C-70600, SB-486 38K .219 .071 3.500 23-5/8"  
(mat'l. spec. no.) (tensile strength) (nom. thickness [in.]) (min. design thickness [in.]) (dia. ID [ft. & in.]) (lgth. [overall]) [ft. & in.]

7. Seams: N/A N/A N/A N/A N/A N/A N/A N/A  
(long.) (HT') (RT) (eff. %) (girth) (HT') (RT) (no. of courses)

8. Heads: C65-100, SB98 70K C65-100, SB98 70K  
([a] mat'l. spec. no.) (tensile strength) ([b] mat'l. spec. no.) (tensile strength)

	LOCATION (Top, Bottom, Ends)	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	Top	.375	N/A	N/A	N/A	N/A	N/A	3.125	N/A
(b)	Bottom	.375	N/A	N/A	N/A	N/A	N/A	3.125	N/A

If removable, bolts used: N/A  
(mat'l. spec. no., size, quantity)

Other fastening: N/A  
(describe or attach sketch)

9 Jacket Closures: N/A  
(Describe as ogee & weld, bar, etc. If bar, give dimensions, describe or sketch)

10 Design pressure <sup>2</sup>: 200 PSI at max. temp. 300°F. Min. pressure-test temp. N/A. Pneu., hydro., or comb. test pressure 300 PSI.

11 Tubesheets:  
N/A N/A N/A N/A  
(stationary, mat'l. spec. no.) (dia. in. [subject to press.]) (thickness [in.]) (attachment [welded, bolted])  
N/A N/A N/A N/A  
(floating, mat'l. spec. no.) (dia. [in.]) (thickness [in.]) (attachment)

12 Tubes: C70-600, SB-111 .625 .035 96 STRAIGHT  
(mat'l. spec. no.) (OD [in.]) (thickness [in. or gage]) (no.) (type [straight or UJ])

Items 13 to 16 inclusive to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.

13 Shell: N/A N/A N/A N/A N/A N/A  
(mat'l. spec. no.) (tensile strength) (nom. thick. [in.]) (min. design thick. in.) (dia. ID [ft. & in.]) (lgth. [overall]) [ft. & in.]

14 Seams: N/A N/A N/A N/A N/A N/A N/A N/A  
(long [welded, dbl., single]) (HT' [yes or no]) (RT) (eff. %) (girth) (HT') (RT) (no. of courses)

Heads: N/A N/A N/A N/A N/A N/A  
([a] mat'l spec #) (tensile strength) ([b] mat'l spec #) (tensile strength) ([c] mat'l spec #) (tensile strength)

Location	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a) Top, bottom, ends	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
(b) Channel	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
(c) Floating	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

If removable, bolts used: \_\_\_\_\_

N/A

(mat'l. spec. no., size, quantity)

Other fastening: \_\_\_\_\_

N/A

(describe or attach sketch)

16 Design pressure: \_\_\_\_\_

N/A (psi)

at

N/A (° F)

Min. pressure-test temp. \_\_\_\_\_

N/A (° F)

Pneu., hydro., or comb. test pressure \_\_\_\_\_

N/A (psi)

17 Nozzles, inspection and safety valve openings:

Purpose (inlet, outlet, drain, etc.)	Quantity	Dia. or Size	Type	How Attached	Mat'l.	Thickness	Reinforce. Material	Location
INLET	1	3"	STUB	BRAZE	SB-466 C70600	.219	N/A	BOTTOM
OUTLET	1	3"	STUB	BRAZE	SB-466 C70600	.219	N/A	TOP

18 Supports:

Skirt: NO (yes or no)

Lugs: NONE (Qty.)

Legs: NONE (Qty.)

Other: N/A (describe)

Attached: N/A (where & how)

19 Remarks:

FLANGES:

3" - 150# RE, SA-105

RETURN BENDS:

SB-111, C70600

COIL CASING:

SA240, S30400

LOCKNUTS:

A-683, GR. 'A'

BOLTS:

SA-307, GR. 'A'

CERTIFICATION OF DESIGN

Design specification certified by:

GEORGE O. WHITE

P.E.State: N.C.

Reg. No.: 5624

Design specification certified by:

GEORGE POLIMEROS

P.E.State: N.C.

Reg. No.: 7789

Design report certified by:

MATT HARGAN

P.E.State: KY

Reg. No.: 7823

CERTIFICATION OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this nuclear vessel conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No.:

N-2661

Expires:

JANUARY 18, 1997

Date: 6/29/95

Name:

AAF INTERNATIONAL

Signed:

(N Certificate Holder)

*James Thomas*  
(Authorized Representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of KENTUCKY and employed by HARTFORD STEAM BOILER of CONNECTICUT have inspected the component described in this Data Report on 6-30-95 and state that to the best of my knowledge and belief, the Certificate Holder has constructed this component in accordance with the ASME Code, Section III, Division 1.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date: 6-30-95

Signed: *Michael S. Switzer*  
(Authorized Inspector)

Commissions: NIB-11092A, N

KY-997

(Nat'l. Board [incl. endorsements] State or Prov. & No.)

**CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE**

I, the undersigned, hereby certify that the statements on this report are correct and that the field assembly construction of all parts of this nuclear vessel conforms to the rules of construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No.:

Expires:

Date:

Name:

Signed:

(N Certificate Holder)

(Authorized Representative)

**CERTIFICATE OF FIELD ASSEMBLY INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of \_\_\_\_\_ and employed by \_\_\_\_\_

of \_\_\_\_\_ have compared the statements in this Data Report with the described component and state that parts referred to as data items \_\_\_\_\_, not included in the certificate of shop inspection, have been inspected by me on \_\_\_\_\_ the Certificate Holder has constructed and assembled this component in accordance with the ASME Code, Section III, Division 1.

By signing this certificate, neither the inspector nor his employer make any warranty, expressed or implied, concerning the component described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date:

Signed:

Commissions:

(Authorized Inspector)

(Nat'l. Board [incl. endorsements] State or Prov. & No.)

- 1 If postweld heat treated.
  - 2 List other internal or external pressure with coincident temperature when applicable.
- Supplemental information in form of lists, sketches or drawings may be used provided, 1) size is 8-1/2 x 11, 2) information in Items 1 thru 4 on this Data Report is included on each sheet, and 3) each sheet is numbered and number of sheets is recorded at top of this form.



FORM N-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR VESSELS\*

As Required by the Provisions of the ASME Code Rules, Section III, Div. 1

44 of Index

1. Manufactured by American Air Filter 2000 Tamm Street Princetonville, TX 75012  
 (Name and address of N Certificate Holder)  
 2. Manufactured for Carolina Power and Light Company Wake County, North Carolina  
 (Name and address of Purchaser)  
 3. Type Horiz. Kind Heat Ex. Vessel No. 906820-B30 CRN No. \_\_\_\_\_ Nat'l Bd. No. 1133 Yr. Built 1980  
 (Horiz. or vert.) (Tank, jacketed, heat ex.) (Mfrs. Serial No.)  
 3a. Applicable ASME Code: Section III, Edition: 1977, Addenda date Summer 1977, Case No. \_\_\_\_\_ Class 2

Items 4-8 inclusive to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers

Header Cu-Ni (Annealed) 1/2 9/16  
 4. Material: Material SB-466-706 T.S. 38,000 Nom. Thk. .219 in. Corr. Allow. \_\_\_\_\_ in. Diam. 13 in. Length 11 ft.  
 (Kind & Spec. No.) (Min. of range specified)

5. Seams: Long NA H.T.<sup>1</sup> NA R.T. NA Efficiency NA %  
 Girth NA H.T.<sup>1</sup> NA R.T. NA No. of Courses NA

6. Heads: (a) Material SB-171-706 T.S. 40,000 (b) Material Cu-Ni (Annealed) T.S. 40,000

Location (top, bottom, ends)	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diam.	Side to Pressure (convex or concave)
(a) <u>Top</u>	<u>.375</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>3.125</u>	<u>NA</u>
(b) <u>Bottom</u>	<u>.375</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>3.125</u>	<u>NA</u>

If removable, bolts used: NA (Material, Spec. No., T.S., Size, Number) Other fastening: NA (Describe or attach sketch)

7. Jacket Closure: NA (Describe as ogee & weld, bar, etc. If bar, give dimensions, describe, or sketch)

8. (a) Design Pressure: 200 psi at 300 °F (b) Min. Pressure-Test Temp. \_\_\_\_\_ °F  
 (c) Pneumatic, Hydrostatic, or Combination Test Pressure: 300 psi

Items 9 and 10 to be completed for tube sections.

9. Tube Sheets: Stationary: Material NA Diam. NA in. Thk. NA in. Attachment NA  
 (Kind & Spec. No.) (Subject to pres.) (Welded, bolted)

Floating: Material NA Diam. NA in. Thk. NA in. Attachment NA  
 (Kind & Spec. No.)

10. Tubes: Material SB-111-706 O.D. .625 in. Thk. .035 in. or gage \_\_\_\_\_ Number 48 Type U  
 (Kind & Spec. No.) (Straight or U)

Items 11 to 14 inclusive to be completed for inner chambers of jacketed vessels or channels of heat exchangers.

11. Shell: Material \_\_\_\_\_ T.S. \_\_\_\_\_ Nom. Thk. \_\_\_\_\_ in. Corr. Allow. \_\_\_\_\_ in. Diam. \_\_\_\_\_ ft. \_\_\_\_\_ in. Length \_\_\_\_\_ ft. \_\_\_\_\_ in.  
 (Kind & Spec. No.) (Min. of range specified)

12. Seams: Long \_\_\_\_\_ H.T.<sup>1</sup> \_\_\_\_\_ R.T. \_\_\_\_\_ Efficiency \_\_\_\_\_ %  
 (Welded, dbl., single) (Yes or no)  
 Girth \_\_\_\_\_ H.T.<sup>1</sup> \_\_\_\_\_ R.T. \_\_\_\_\_ No. of Courses \_\_\_\_\_

13. Heads: (a) Material \_\_\_\_\_ T.S. \_\_\_\_\_ (b) Material \_\_\_\_\_ T.S. \_\_\_\_\_ (c) Material \_\_\_\_\_ T.S. \_\_\_\_\_

Location	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diam.	Side to Pressure (convex or concave)
(a) Top, bottom, ends	_____	_____	_____	_____	_____	_____	_____	_____
(b) Channel	_____	_____	_____	_____	_____	_____	_____	_____
(c) Floating	_____	_____	_____	_____	_____	_____	_____	_____

If removable, bolts used: (a) \_\_\_\_\_ (b) \_\_\_\_\_ (c) \_\_\_\_\_ Other fastening: \_\_\_\_\_  
 (Material, Spec. No., T.S., Size, Number) (Describe or attach sketch)

14. (a) Design Pressure: \_\_\_\_\_ psi at \_\_\_\_\_ °F (b) Min. Pressure-Test Temp. \_\_\_\_\_ °F  
 (c) Pneumatic, Hydrostatic, or Combination Test Pressure: \_\_\_\_\_ psi

1 If postweld heat-treated. 2 List other internal or external pressures with coincident temperature when applicable.  
 \*Supplemental sheets in form of lists, sketches, or drawings may be used provided: (1) size is 8 1/2 in. x 11 in.; (2) information in items 1 through 3 of this Data Report is included on each sheet; and (3) each sheet is numbered and the number of sheets is recorded in item 19, Remarks  
 (12/31/79) This form (E0003S) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

FORM N-1 (Back)

Items below to be completed for all vessels where applicable.

15. Safety Valve Outlets: Number NA Size NA Location NA

16. Nozzles:

Purpose (Inlet, outlet, drain)	Number	diam. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
<u>Inlet</u>	<u>1</u>	<u>3.500</u>	<u>Nozzle</u>	<u>SB-466-706</u>	<u>.216</u>	<u>NA</u>	<u>Braced</u>
<u>Outlet</u>	<u>1</u>	<u>3.500</u>	<u>Nozzle</u>	<u>SB-466-706</u>	<u>.216</u>	<u>NA</u>	<u>Braced</u>

17. Inspection Manholes: No. NA Size NA Location NA  
 Openings, Handholes: No. NA Size NA Location NA  
 Threaded: No. NA Size NA Location NA

18. Supports: Skirt NO Lugs NONE Legs NONE Other NA Attached NA  
 (Yes or no) (Number) (Number) (Describe) (Where & how)

19. Remarks: Nozzles fitted with 150 # lap joint flange. Mtl. SA-105 Grade I 7.500 O.D. x 1 3/16" thickness T.S. 70,000 PSI Tubes SB-111-706 T.S. 40,000 PSI Return Bends .625 O.D. x .035 wall thickness SB-111-706 T.S. 40,000 PSI

(Brief description of service for which vessel was designed.)

We certify that the statements made in this report are correct and that this nuclear vessel conforms to the rules of construction of the ASME Code, Section III.

Date 4-8 19 80 Signed American Air Filter By Ronnie N. Hart  
 (N Certificate Holder)

Certificate of Authorization Expires May 6, 1981 Certificate of Authorization No. N-1053

**CERTIFICATION OF DESIGN**

Design information on file at Brownsville, IN  
 Stress analysis report on file at Brownsville, IN  
 Design specifications certified by George Polimeros Prof. Eng. State N.C. Reg. No. 7799  
 Stress analysis report certified by E. Allen Springer, Jr. Prof. Eng. State KY Reg. No. 9010

**CERTIFICATE OF SHOP INSPECTION**

Vessel made by American Air Filter Co., Inc. at 2000 Tamm Street Brownsville, TN  
 I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Tennessee and employed by Allendale Mutual Ins. Co. of Norwood, Mass.  
 have inspected the pressure vessel described in this Manufacturer's Data Report on 4-8, 1980, and state that, to the best of my knowledge and belief, the N Certificate Holder has constructed this pressure vessel in accordance with the ASME Code, Section III.  
 By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this N Certificate Holder's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  
 Date 4-8 19 80 J. H. Hamilton Inspector's Signature Factory Mutual System Commissions NB-4824  
 National Board, State, Province and No.

**CERTIFICATE OF FIELD ASSEMBLY INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of \_\_\_\_\_ and employed by \_\_\_\_\_ of \_\_\_\_\_  
 have compared the statements in this Data Report with the described pressure vessel and state that parts referred to as data items inspected by me and that to the best of my knowledge and belief the N Certificate Holder has constructed and assembled this pressure vessel in accordance with the ASME Code, Section III. The described vessel was inspected and subjected to a hydrostatic test and/or pneumatic test of \_\_\_\_\_ psi.  
 By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.  
 Date \_\_\_\_\_ 19 \_\_\_\_\_  
 Inspector's Signature \_\_\_\_\_ Commissions \_\_\_\_\_  
 National Board, State, Province and No. \_\_\_\_\_

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 12/22/95  
Name
- P.O. Box 1551, Raleigh, N. C. 27602-1551 Sheet 1 of 1  
Address
2. Plant Shearon Harris Nuclear Power Plant Unit 1  
Name
- P.O. Box 165, New Hill, N. C. 27562-0165 WR&A 95-ABRB1  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Carolina Power and Light Company Type Code Symbol Stamp N/A  
Name Authorization No. N/A
- New Hill, N.C. 27562-0165 Expiration Date N/A  
Address
4. Identification of System Containment Liner and Penetration System (8020)
5. (a) Applicable Construction Code ASME Sect. III 1974 Edition, Winter 1976 Addenda, \_\_\_\_\_ Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983
6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Hex Nut 7/8-9	Novz Machine Products Corp.	Ht# 8079196	N/A	Part# 727-417-96 PO# 7P2532	1994	Replacement	No
Threaded Rod 7/8-9	Mackson, Inc.	Ht# 687347	N/A	Part# 727-419-94 PO# 671304	1989	Replacement	No

7. Description of Work Replaced stud and nuts on Containment Refueling Access Sleeve flange.
8. Tests Conducted: Hydrostatic  Pneumatic   Nominal Operating Pressure   
 Other  Pressure 41.3(+0.5, -0) Test Temp. Ambient °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks See attached certificates of conformance. Pressure test performed as LLRT per EST-209, Att. 14, completed 10/4/95 and  
Applicable Manufacturer's Date Reports to be attached  
filed with completed plant procedures.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed W. A. Slone ECCS Supervisor Date 27 December, 19 95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by The Hartford Steam Boiler and Insurance Company of One State Street, Hartford, Connecticut 06102 have inspected the components described in this Owner's Report during the period 05/13/94 to 10/12/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Colgar B. Dwyer Commissions NC 1042  
Inspector's signature National Board, State, Province, and Endorsements

Date Dec 28 19 95



P.O. Box 30287  
Middleburg Heights, OH  
44130

216 267 3200  
Fax 216 433 1640

CERTIFICATE OF COMPLIANCE

DATE: 07/08/94 PAGE 1

P.O.#: 7P2532AS

COMPANY: CAROLINA POWER AND LIGHT CO  
HARRIS NUCLEAR PROJECT  
OP RCVNG BLDG/STATE RD 1134  
NEW HILL, NORTH CAROLINA 27562

S.O.#: 24792

LINE#: 1

PIECES: 91

LOT #: 34493072

DESCRIPTION: 7/8-9 UNC 2B HEX NUT

MATERIAL SPECIFICATION: ASME SA-194 (S'93) GRADE 2H

HEAT TREAT CONDITION:

QUENCHED AND TEMPERED PER THE MATERIAL SPECIFICATION.: 950 F MINIMUM

QUALITY SPECIFICATIONS:

ASME SECTION III SUBSECTION NC (CLASS 2) 1974 EDITION, WINTER 1976  
ADDENDA; NO WELDING PERFORMED BY NOVA; HEAT NUMBER 8079196; 10CFR21  
APPLIES; VISUALLY EXAMINED AND ACCEPTED PER NOVA PROCEDURE NP-VIS1  
REV.5 WHICH MEETS THE REQUIREMENTS OF SA/A-614, Nx-2500, F-788 &  
F-812; THIS ITEM WAS PROCESSED PER THE APPLICABLE PORTIONS OF SITE  
SPEC, 55 REV. B; EVALUATED & MEETS THE APPLICABLE REQUIREMENTS OF THE  
REFERENCED SPECIFICATIONS; DIMENSIONS PER ANSI B18.2.2; THREADS PER  
ANSI B1.1; PART# 727-417-96; THE ITEMS ARE STAMPED WITH HEAT CODE #  
C2P

QUALITY PROGRAM STATEMENT:

Nova Machine Products Corporation certifies that the material, parts,  
components, or services processed on this purchase order have been  
supplied in accordance with, and therefore meet or exceed the quality  
requirements established by the references or specifications cited in  
this order.

This material was purchased from a qualified source and manufactured  
in accordance with our Quality System Certificate number SC-522  
expires May 22, 1996 (Manual Edition 3 Revision 0 dated 4-7-93).

I certify the contents of this report are correct and accurate and  
that all test results and operations performed by NOVA or NOVA's  
subcontractors are in compliance with the requirements of the material  
specification and the Code as designated by the purchaser.

(Please call JOHN HOOSE at (216) 267-3200, day or night,  
if you have any questions or comments. \*\* THANK YOU \*\*)

*Jim Fitzwilliam* 7-8-94

Jim Fitzwilliam Quality Assurance Manager

7-13-94



P.O. Box 30287  
Middleburg Heights, OH  
44130

216 267 3200  
Fax 216 433 1640

MATERIAL TEST REPORT

DATE: 07/08/94 PAGE 1  
COMPANY: CAROLINA POWER AND LIGHT CO  
HARRIS NUCLEAR PROJECT  
OP RCVNG BLDG/STATE RD 1134  
NEW HILL, NORTH CAROLINA 27562

P.O.#: 7P2532AS  
S.O.#: 24792  
LINE#: 1  
PIECES: 91  
LOT #: 34493072

DESCRIPTION: 7/8-9 UNC 2B HEX NUT  
MATERIAL SPECIFICATION: ASME SA-194 (S'83) GRADE 2H  
HEAT TREAT CONDITION:

QUENCHED AND TEMPERED PER THE MATERIAL SPECIFICATION.: 850 F MINIMUM

QUALITY SPECIFICATIONS:

ASME SECTION III SUBSECTION NC (CLASS 2) 1974 EDITION, WINTER 1976  
ADDENDA; NO WELDING PERFORMED BY NOVA; HEAT NUMBER 8079196; 10CFR21  
APPLIES; VISUALLY EXAMINED AND ACCEPTED PER NOVA PROCEDURE NP-VIS1  
REV.5 WHICH MEETS THE REQUIREMENTS OF SA/A-614, Nx-2500, F-788 &  
F-812; THIS ITEM WAS PROCESSED PER THE APPLICABLE PORTIONS OF SITE  
SPEC. 55 REV. B; EVALUATED & MEETS THE APPLICABLE REQUIREMENTS OF THE  
REFERENCED SPECIFICATIONS; DIMENSIONS PER ANSI B19.2.2; THREADS PER  
ANSI B1.1; PART# 727-417-96; THE ITEMS ARE STAMPED WITH HEAT CODE #  
C2P

TEST: CHEM HEAT NO.: 8079196  
C :.46 Mn:.69 P :.012 S :.031 Si:.18

TEST: MECH TEXT: 8079196  
TENSILE: 0 YIELD PT: 0 ELONGATION: .0  
REDUCT: .00 HARD BHN: 0 HARD Rc: 22.0 HARD Rb: .0  
PROOF: 70070 CONE: 0 24-HR. TEMP: 1000 HARD: 22 RC

QUALITY PROGRAM STATEMENT:

Nova Machine Products Corporation certifies that the material, parts, components, or services processed on this purchase order have been supplied in accordance with, and therefore meet or exceed the quality requirements established by the references or specifications cited in this order. This material was purchased from a qualified source and manufactured in accordance with our Quality System Certificate number QSC-522 expires May 22, 1996 (Manual Edition 3 Revision 0 dated 4-7-93).

I certify the contents of this report are correct and accurate and that all test results and operations performed by NOVA or NOVA's subcontractors are in compliance with the requirements of the material specification and the Code as designated by the purchaser.

\*\*\* CONTINUED ON PAGE 2 \*\*\*

*Jim Fitzwilliam* 7-8-94  
Jim Fitzwilliam Quality Assurance Manager

68713.94



P.O. Box 30287  
Middleburg Heights, OH  
44130

216 267 3200  
Fax 216 433 1640

MATERIAL TEST REPORT

DATE: 07/08/94 PAGE 2

COMPANY: CAROLINA POWER AND LIGHT CO  
HARRIS NUCLEAR PROJECT  
OP RCVNG BLDG/STATE RD 1134  
NEW HILL, NORTH CAROLINA 27562

P.O.#: 7P2532AS -

S.O.#: 24792

LINE#: 1

PIECES: 91

LOT #: 34493072

DESCRIPTION: 7/8-9 UNC 2B HEX NUT

MATERIAL SPECIFICATION: ASME SA-194 (S'83) GRADE 2H

HEAT TREAT CONDITION:

QUENCHED AND TEMPERED PER THE MATERIAL SPECIFICATION.: 850 F MINIMUM

(Please call JOHN HOOSE at (216) 267-3200, day or night,  
if you have any questions or comments. \*\* THANK YOU \*\*)

713-94

*Jim Fitzwilliam* 7-8-94

Jim Fitzwilliam Quality Assurance Manager



**PACKING LIST**

P.O. Box 30287  
Middleburg Heights, OH 44130  
PHONE: 216 267 3200  
FAX NO. 216 433 1640

PAGE 1  
ORD #: 24792

SOLD TO: 172  
CAROLINA POWER AND LIGHT CO  
ACCOUNTS PAYABLE DEPARTMENT  
P.O. BOX 1551  
RALEIGH, NORTH CAROLINA 27602

SHIP TO:  
CAROLINA POWER AND LIGHT CO  
HARRIS NUCLEAR PROJECT  
OP RCVNG BLDG/STATE RD 1134  
NEW HILL, NORTH CAROLINA 27562

P.O. NO: 7P2532AS      SKIDS: 0      BOXES: 1      ORDER DATE: 06/09/94  
~~SHIP VIA: UPS CONSIGNEE~~      ~~WEIGHT: 19~~      ~~DUE DATE: 07/08/94~~

ITEM DESCRIPTION & MATERIAL	QTY ORB	QTY SHIPPED
1 : 7/8-9 UNC 2B HEX NUT MATL: ASME SA-194 (S'83) GRADE 2H NOTE: #727-417-96 1A : ****PROCESS PER SITE SPEC. 55 REV. 8****	91	91

\*\*\* END OF DATA \*\*\*  
(Please call JOHN HOOSE at (216) 267-3200, day or night,  
if you have any questions or comments. \*\* THANK YOU \*\*)

PACKED BY: *[Signature]* 7-8/94  
CHECKED BY: *[Signature]* 7-8-94



MACKSON, INCORPORATED

P.O. BOX 12067  
5025 OLD YORK ROAD  
ROCK HILL, SOUTH CAROLINA 29731  
(803) 329-6545

*CW*

TO: CAROLINA POWER & LIGHT  
HARRIS NUCLEAR PLANT  
OPS RCVG BLDG SR1134  
NEW HILL, N.C. 27562

DATE OF SHIPMENT: 2-1-90

SUBJECT: CERTIFICATE OF COMPLIANCE

MACKSON, INC. CERTIFIES THAT THE MATERIALS FURNISHED TO YOU ON YOUR PURCHASE ORDER 671304CH WAS PROCESSED IN ACCORDANCE WITH MACKSON INCORPORATED QUALITY ASSURANCE MANUAL DATED JANUARY 25, 1988, REVISION 3.

DESCRIPTION OF ITEMS

ITEM:	QUANTITY:
1.) 7/8-9 x 6' ALL THREAD ROD	180 ft total
90ft- HEAT#699724 TRACE : GYQ	6x15 = 90 OK
90ft- HEAT#687347 TRACE : GXE	

THIS MATERIAL IS IN ACCORDANCE WITH C P & L P.O.671304CH AND SPEC. 55 REV.6 AND SECTION III CLASS 2, 1974 EDITION THRU 1976 WINTER ADDENDA.

*Bill Blackburn*  
QUALITY ASSURANCE MANAGER

2-1-90  
DATE

A & G ENGINEERING II, INC.  
NUCLEAR REPORT OF PHYSICAL AND CHEMICAL TESTS  
AND CERTIFICATION OF COMPLIANCE

CUSTOMER: MACKSON  
PARTS MARKED: NCA 3866.6  
CUSTOMER P.O. NO.: 21152  
A & G PACKING LIST NO.: 03915  
PREPARED BY: TA DATE: 12/27/89

A&G ENGINEERING II, INC REGISTERED TRADE MARK  
(-)  
REGISTER NO. 1,295,663

REPORT: 3915A  
SPECIFICATIONS ASME SA193 GR B7  
NCA 3800, SEC. III, CODE YEAR 1986,  
CLASS 1 NB, THRU 1987 ADDENDA,  
10 CFR 50 APPENDIX B, 10 CFR 21 APP.

Item No.	Description	Mat'l	Qty.	No. Pcs. Tested	Hardness After 24 Hrs. @	Ultimate Tensile	Proof Load	Yield	Elong %	RA %	Hardness	Oil Quenched & Tempered at
1.	1/2-13 UNC(2A) X 6 FT TFL BAR ASME SA193 GR B7	4140	20	1		144,300		128,400	21.7	60	288 HB	665 DEG C 2 HRS
2.	5/8-11 UNC(2A) X 6 FT DITTO	4140	30	1		137,100		123,300	21.7	63	275 HB	665 DEG C 2 HR 15 MIN
3.	7/8-9 UNC(2A) X 6 FT DITTO	4140	15	1		136,300		119,700	21.8	59	278 HB	675 DEG C 2 HR 15 MIN.

Item No.	VISUAL INSP. No. Test	SA 614	RU/ASTM F788	Heat No.	Heat Code	C	Mn	Si	S	P	Cr	Ni	Mo	V				
1.	20	20	0	676294	DOL	.42	.90	.23	.010	.024	1.00		.20					
2.	30	30	0	691494	GXK	.40	.81	.21	.014	.020	1.02		.20					
3.	15	15	0	687347	GXE	.43	.83	.27	.012	.015	.98		.19					

MATERIAL MANUFACTURED/SUPPLIED IN ACCORDANCE WITH MACKSON PO# 21152  
A&G QSC# 455 EXPIRES JUNE 11, 1991  
NO WELD REPAIRS HAVE BEEN PERFORMED ON THIS MATERIAL.

THIS DOCUMENT MAY BE REPRODUCED UNALTERED, ONLY FOR THE PURPOSE OF CERTIFYING A LESSER QUANTITY OF THE MATERIAL SPECIFIED HEREIN. ALTERATION OR REPRODUCTION FOR ANY OTHER PURPOSE IS PROHIBITED.

We certify that the contents of this report are correct and accurate and that all test results and operations were in compliance with requirements of the material specifications and specific requirements of section III paragraphs designated by the purchaser.

*John Thalasin*  
John Thalasin, Q.A. Mgr.  
Dan McDevitt, Assistant Q.A. Mgr.  
William Cook, Q.C. Mgr.

A & G ENGINEERING II, INC.  
NUCLEAR REPORT OF PHYSICAL AND CHEMICAL TESTS  
AND CERTIFICATION OF COMPLIANCE

CUSTOMER: MACKSON  
PARTS MARKED: NCA 3866.6  
CUSTOMER P.O. NO.: 21162  
A & G PACKING LIST NO.: 03981  
PREPARED BY: TA DATE: 1/19/90

A&G ENGINEERING II, INC REGISTERED TRADE MARK  
(-)  
REGISTER NO. 1,295,663

REPORT: 3981A  
SPECIFICATIONS ASME SA193 GR B7  
NCA 3800, SEC III, CODE YEAR 1986,  
CLASS 1 NB, THRU 1987 ADDENDA,  
10 CFR 21 APPLIES

Item No.	Description	Mat'l	Qty.	No. Pcs. Tested	Hardness After 24 Hrs. @	Ultimate Tensile	Proof Load	Yield	Elong %	RA %	Hardness	Heat Treat Data
1.	7/8-9 UNC(2A) X 6 FT TFL BAR ASME SA193 GR B7	4140	34	1		129,100		112,400	23.0	59	275 HB	OIL QUENCHED & TEMPERED AT 670 DEG C 2 HR 15 MIN
2.	1 1/8-8 UN(2A) X 6 FT ITEM #2 MAG PARTICLE PER SA614/RW/NB2583	4140	12	1		137,800		117,500	19.8	60	285 HB	OIL QUENCHED & TEMPERED AT 665 DEG C 1.5 HRS

-----ASTM F788-----

Item No.	VISUAL INSP. SA 614 RU/NB2582	Heat Code	C	Mn	Si	S	P	Cr	Ni	Mo	V				
No.	No. Test   Accept   Rej.	Heat No.													
1.	34   34   0	699724	GYQ	.43	.88	.26	.007	.015	.96		.19				
2.	12   12   0	698004	GYT	.43	.67	.24	.008	.028	.99		.21				

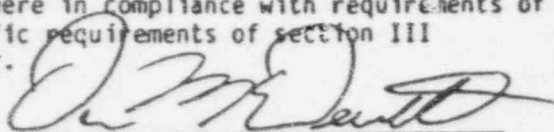
CHARPY IMPACT TEST RESULTS TYPE "A" V-NOTCH METHODS A370 10X10MM SPECIMENS  
ORIENTATION AND LOCATION: Specimen taken with the longitudinal axis of the specimen located at least one-half radius or 1 inch below the surface plus the machining allowance per side, whichever is less. Fracture plane of the specimen at least one diameter or thickness from the heat treated end.

Item No.	HT CODE	TEST TEMP.	FOOT LBS	SHEAR %	MIL LATERAL EXPANSION
2.	GYT	+20 DEG F	64/65/66	40/40/40	38/40/41

MATERIAL MANUFACTURED/SUPPLIED IN ACCORDANCE WITH MACKSON PO# 21162  
A&G QSC# 455 EXPIRES JUNE 11, 1991  
NO WELD REPAIRS HAVE BEEN PERFORMED ON THIS MATERIAL.

THIS DOCUMENT MAY BE REPRODUCED UNALTERED, ONLY FOR THE PURPOSE OF CERTIFYING A LESSER QUANTITY OF THE MATERIAL SPECIFIED HEREIN. ALTERATION OR REPRODUCTION FOR ANY OTHER PURPOSE IS PROHIBITED.

We certify that the contents of this report are correct and accurate and that all test results and operations were in compliance with requirements of the material specifications and specific requirements of section III paragraphs designated by the purchaser.

  
John Thalasinis, Q.A. Mgr.  
Dan McDevitt, Assistant Q.A. Mgr.  
William Cook, Q.C. Mgr.

DCS  
12/18/95  
R/R # <sup>F</sup> CBY-FIT-FLANGE-01

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 12/19/95  
Name  
P.O. Box 1551, Raleigh, N. C. 27602-1551 Sheet 1 of 1  
Address
2. Plant Shearon Harris Nuclear Power Plant Unit 1  
Name  
P.O. Box 165, New Hill, N. C. 27562-0165 WR&A 95-ACAK1 (ESR 95-00788)  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Carolina Power and Light Company Type Code Symbol Stamp N/A  
Name Authorization No. N/A  
New Hill, N.C. 27562-0165 Address Expiration Date N/A  
Address
4. Identification of System Spent Fuel Pool Cooling and Cleanup System (7095)
5. (a) Applicable Construction Code ASME Sect. III 1974 Edition, Winter 1976 Addenda, \_\_\_\_\_ Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Blind Flange	G&W Taylor Taylor Forge Div.	M-10-287-HH505	N/A	Penetration M-65 Fuel Transfer Tube	1986	Replacement	No.

7. Description of Work Deleted 15 of original 20 bolts attaching blind flange to the Spent Fuel Transfer Tube inside Containment.
8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure 41.3(+0.5, -0)psi Test Temp. \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks No manufacturer's data reports required. ESR 95-00788 was written to reduce the number of bolts attaching the blind flange to the the fuel transfer tube inside containment. This change was intended to facilitate a reduction in radiation exposure that had previously been incurred during removal and reinstallation of the flange at each refueling outage. The post installation pressure test was the normal Type B LLRT per EST-209, Att. 12 and is filed with the completed surveillance tests.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed W. Ashover ECCS Supervisor Date 19 December, 19 95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by The Hartford Steam Boiler and Insurance Company of One State Street, Hartford, Connecticut 06102 have inspected the components described in this Owner's Report during the period 05/13/94 to 10/12/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Edgar B. Dayton Commissions NC 1042  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec 28 19 95

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 12/22/95  
Name
- P.O. Box 1551, Raleigh, N. C. 27602-1551 Sheet 1 of 1  
Address
2. Plant Shearon Harris Nuclear Power Plant Unit 1  
Name
- P.O. Box 165, New Hill, N. C. 27562-0165 WR&A 95-ACYA1  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Carolina Power and Light Company Type Code Symbol Stamp N/A  
Name Authorization No. N/A
- P.O. Box 165, New Hill, N.C. 27562-0165 Expiration Date N/A  
Address
4. Identification of System Steam Generator (3005)
5. (a) Applicable Construction Code ASME Sect. III 1974 Edition, Winter 1976 Addenda, \_\_\_\_\_ Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Bolt	Westinghouse ERIE	N/A	N/A	Part# 724-231-71 PO# 162065	*	Replacement	N/A

7. Description of Work Replaced secondary inspection port cover A3 bolt# 4 on A-S/G. \* - See remarks on back.
8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks A certificate of conformance has not been located for the bolt replaced. However, attached is the receipt inspection  
Applicable Manufacturer's Date Reports to be attached  
record for the subject part and the Supply Inventory System Audit Trail documentation for this part in lieu.
- Pressure test performed in conjunction with the Class 1 System Leakage Test per EST-201, completed 10/8/95 and filed with completed  
plant procedures. Table IWC-2500-1 does not address washers for bolts of this size. It should be noted that a tapered washer  
was installed for this bolt to assure good support. Ref. WR&A 95-AIYN1 and ESR 95-00801, Part# 735-215-93, 3° tapered washer.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the  
 ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature] WASlover ECCS Supervisor Date 12/22, 19 95  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSTRVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vesrel Inspectors and the  
 State or Province of North Carolina and employed by The Hartford Steam Boiler and Insurance Company of  
One State Street, Hartford, Connecticut 06102 have inspected the components described  
 in this Owner's Report during the period 05/13/94 to 10/12/95, and state that  
 to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
 Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the  
 examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer  
 shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with  
 this inspection.

[Signature] Commissions NC 1042  
 Inspector's Signature National Board, State, Province, and Endorsements

Date Dec 27 19 95

CAROLINA POWER & LIGHT COMPANY  
RECEIVING INSPECTION REPORT (RIR)

OQA-402  
 Enclosure 1  
 Revision 0  
 Page 14 of 2

883360412

I. No: NA Vendor/ASL \_\_\_\_\_  
 PO: 12-162065 QA Class:  Q  RWQ  
 FPQ  Other \_\_\_\_\_

Qty	Acc	Rej	Description & ID No.	Documentation	ID & Markings	Gas Blankets	Dessicant	Physical Damage	Cleanliness	Workmanship	Lubricants & Oils	Coatings & Pres.	Dimensions	Weld Preparation	Elec. Insulation
1600	1600	NA	Bolt 724-231-71	NA	A	NA	NA	A	A	A	NA	NA	NA	NA	NA

A - Accept \* - Reject

OTHER INSPECTIONS PERFORMED: NA

INSPECTED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

NONCONFORMANCE/REMARKS: Construction turnover.  
 Inspected per OQA-402  
 Sampling Plan Sample: 500

INSPECTED BY: William Howard Brasher Jr 8-16-88 [Signature] 8/16/88  
 Receipt Inspector Date QA/QC Specialist Date

II.

Item	Qty	Acc	Rej	Corrective Action/Disposition Details

Completed by \_\_\_\_\_ Date \_\_\_\_\_ QA/QC Specialist \_\_\_\_\_ Date \_\_\_\_\_  
 Receipt Inspector: \_\_\_\_\_



\* SIS \* STOCK ISSUE INQUIRY AUDIT TRAIL

PART INFORMATION

PART NO. 724-231-71                      MPG PART NO. 651B293H13  
WORD: BOLT                      CLOSURE                      INVENTORY CLASS 1                      R/P P

EXTENDED DESCRIPTION:

BOLT, CLOSURE, OPENING, INSP                      SOLE SOURCE  
(16' REQ'D PER STEAM GENERATOR).88-9 UNC                      UNIT WT  
BIN 2AASF3A

REQUISITION (RQ) / RESERVATION (RS)                      AUTH MWB

REQUISITIONER MWB-NEYMAN                      DELIVER TO                      DATE REQUIRED                      00 00 00  
PC NUMBER 162065                      HEAT NUMBER NA                      WO 95-ACYAL JOB                      ←  
CHG TO IAA                      CHG BY H48                      ACT N0114                      PROJ A0000016                      PHYSID 31B  
ISSUE REQ. NUMBER ALI086                      REQ. QTY 0000000001                      DELIVER TO WHSE 03

ACTUAL ISSUE BELOW

QTY. ISSUE 0000000001                      U/I EA                      DATE ISSUED 09 14 95                      TRAN CD WR                      TAX JUR WA 8D 1.  
ISSUED BY: WHSE 03                      AUTHORITY MWB-NEYMAN                      TAX CD  
QTY REC'D                      RECEIVED BY: WHSE 03                      DATE RECEIVED  
RECEIVER                      BIN: 2AASF3A

FUNC                      KEY 724-231-71                      TKEY P NO                      TWO R WHSE 03  
MESSAGES;

B                      NUM LU 850



P \*\*\* SUPPLY INVENTORY SYSTEM - WAREHOUSE DATA \*\*\*

724-231-71 BOLT,CLOSURE,OPENING,INSP

WHSE 03

\*\*\* DOCUMENTATION CODES \*\*\*

ISPEC# \*\*

\*\*\* NAME PLATE DATA \*\*\*

FOR STEAM GENERATORS, WESTINGHOUSE SHOP ORDER  
120, SPIN # RCPCSG.

\*\*\* MISCELLANEOUS COMMENTS \*\*\*

STEAM GENERATORS, WESTINGHOUSE, SPIN # RCPCSG,  
MANUAL 1440-C264, SHOP ORDER 120, \*PARTS  
SUPPLIED WITH ORIGINAL EQUIPMENT ON HAND  
QUANTITIES SHOULD BE DETERMINED PRIOR TO ORDERING.  
CTO SURPLUS DEPLETED AS OF 08-16-88 PER LWI

FUNC KEY 724-231-71

TKEY P NO

TNO R WHSE 03

SIS0017: PLEASE ENTER NEXT FUNCTION, -OR-

SIS0198: HIT THE ENTER KEY TO REDISPLAY FIRST WAREHOUSE

B \*\*\*

NUM LU #50

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS  
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 12/22/95  
Name  
P.O. Box 1551, Raleigh, N. C. 27602-1551 Address Sheet 1 of 1
2. Plant Shearon Harris Nuclear Power Plant Unit 1  
Name  
P.O. Box 165, New Hill, N. C. 27562-0165 Address WR&A 95-ACY11  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Carolina Power and Light Company Type Code Symbol Stamp N/A  
Name  
P.O. Box 165, New Hill, N.C. 27562-0165 Address Authorization No. N/A  
Expiration Date N/A
4. Identification of System Reactor Coolant (Steam Generator) (3005)
5. (a) Applicable Construction Code ASME Sect. III 1974 Edition, Winter 1976 Addenda, \_\_\_\_\_ Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983

6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Bolt .88-9 UNC	Westinghouse ERIE	N/A	N/A	Part #724-231-71 PO# 162065	* -	Replacement	No

7. Description of Work Replaced bolt with linear indications used to attach secondary inspection port cover #2, bolt #3, on the B-S/G. \* - See remarks on back.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks A certificate of conformance has not been located for the replacement bolt. The pressure test performed was in conjunction with the System Leakage test performed on the Class 1 system at the end of RF06, EST-201 completed on 10/8/95.  
In lieu of the certificate of conformance, attached is a copy of the receipt inspection record for the subject part and the Supply Inventory System Audit Trail documentation. It has been confirmed that the PO# listed on this "audit trail" is an apparent error and the PO#162065 is the correct PO for this part.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed W. Slone ECCS Supervisor Date 27 December, 19 95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by The Hartford Steam Boiler and Insurance Company of One State Street, Hartford, Connecticut 06102 have inspected the components described in this Owner's Report during the period 05/13/94 to 10/12/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Edgar B. Dayton Commissions NC 1042  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec 28 19 95

CAROLINA POWER & LIGHT COMPANY  
RECEIVING INSPECTION REPORT (RIR)

OQA-402  
 Enclosure 1  
 Revision 0  
 Page 14 of 2

I. No: NA Vendor/ASL \_\_\_\_\_  
 PO: 18-112005 QA Class:  Q  RWQ  
 FPQ  Other \_\_\_\_\_

Qty	Acc	Rej	Description & ID No.	Documentation	ID & Markings	Gas Blankets	Desiccant	Physical Damage	Cleanliness	Workmanship	Lubricants & Oils	Coatings & Pres.	Dimensions	Weld Preparation	Elec. Insulation
16	16	NA	Bolt		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

A - Accept \* - Reject

OTHER INSPECTIONS PERFORMED: NA

INSPECTED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

NONCONFORMANCE/REMARKS: Construction turnover.  
 Inspected per OQA-402  
 Sampling Plan Sample: 5cc.

INSPECTED BY: William Albrecht Borchert 8-16-58 R. L. Smith 8/16/58  
 Receipt Inspector Date QA/QC Specialist Date

II.

Item	Qty	Acc	Rej	Corrective Action/Disposition Details

Completed by: \_\_\_\_\_ Date: \_\_\_\_\_ QA/QC Specialist: \_\_\_\_\_ Date: \_\_\_\_\_  
 Receipt Inspector

883360412

C                   \*\* S I S \*\* - DISPLAY PARTS

724-231-71       KEYWORD BOLT       CLOSURE       QA APPVD RRH ENG APPVD RAW  
PART NAME:       BOLT,CLOSURE,OPENING,INSP     REQ DATE 10/19/83 M/P/D P  
                  (EQ'D PER STEAM GENERATOR).88-9 UNC     DATE ESTABLISHED 10 07 83  
  BY OLSEN/CLH     INV.TYPE 1  
  CHEM. MGMT

VENDR - MFG PART NUMBER       - MSDS   MAT'L RESP J     STOCK N FAMILY QA01\*  
43878 - 651B293N13           -       SUB PART  
-                               -                               MORE MFG (Y/N)

\*\*\* WAREHOUSE INFORMATION \*\*\* WHSE 03

CHT ACTIVITY   PID &D JUR   REC. VENDOR WESTINGHOUSE-NSID-PI SOLE     M/E  
E60 1541        1. WA     U/I EA   U/QTY                   WHSE DT 10 07 83  
                  ONHAND QTY 0000000007   POTYPE           LT 026   WKS  
                  UNIT COST 000070.0000   SU/ORDER COST 000000.0000  
                  MIN 0000000002 MAX 0000000008 SPT STK 0000000000  
                  REVIEW DT               SHELF Y/N/A/R N ABC   MID 01GSME  
STORAGE B MQC Q   CATG C   CRIT 3 ORDER S R/P/D P   CNTL N RECOVER N   PM H-007-00  
VENDOR INSTR AC   INSPECT REQD A   BIN 2AAS8F3A                   RANGE  
PUNC   KEY 724-231-71                   TKEY P NO           TNO R WHSE 03  
SIS0133: HIT THE ENTER KEY TO DISPLAY COMMENT SCREEN

B ==

NUM LU #50

P

\*\*\* SUPPLY INVENTORY SYSTEM - WAREHOUSE DATA \*\*\*

724-231-71 BOLT,CLOSURE,OPENING,INSP

WHSE 03

\*\*\* DOCUMENTATION CODES \*\*\*

\*- .PEC# \*\*

\*\*\* NAME PLATE DATA \*\*\*

FOR STEAM GENERATORS, WESTINGHOUSE SHOP ORDER  
120, SPIN # RCPCSG.

\*\*\* MISCELLANEOUS COMMENTS \*\*\*

STEAM GENERATORS, WESTINGHOUSE, SPIN # RCPCSG,  
MANUAL 1440-C264, SHOP ORDER 120, \*PARTS  
SUPPLIED WITH ORIGINAL EQUIPMENT ON HAND  
QUANTITIES SHOULD BE DETERMINED PRIOR TO ORDERING.  
CTO SURPLUS DEPLETED AS OF 08-16-88 FER LJI

FUNC KEY 724-231-71

TKEY P NO

TNO R WHSE 03

SIS0017: PLEASE ENTER NEXT FUNCTION, -OR-

SIS0198: HIT THE ENTER KEY TO REDISPLAY FIRST WAREHOUSE

B \*\*\*

NUM LU 850



\* SIS \* STOCK ISSUE INQUIRY AUDIT TRAIL

PART INFORMATION

QW PART NO. 724-231-71 MFG PART NO. 651B293H13  
WORD: BOLT CLOSURE INVENTORY CLASS 1 R/P P

EXTENDED DESCRIPTION:

BOLT, CLOSURE, OPENING, INSP SOLE SOURCE  
(16 REQ'D PER STEAM GENERATOR) .88-9 UNC UNIT WT  
BIN 2A8F3A

REQUISITION (RQ) / RESERVATION (RS) AUTH

REQUISITIONER TBM-MITCHELL DELIVER TO MITCHELL, T DATE REQUIRED 03 13 95  
PO NUMBER 162465 HEAT NUMBER N/A WO 95-ACY11 JOB  
CHG TO IAA CKG BY H48 ACT N0114 PROJ A0000016 PHYSID 31B  
ISSUE REQ. NUMBER ALEL09 REQ. QTY 0000000001 DELIVER TO WHSE 03

ACTUAL ISSUE BELOW

QTY. ISSUE 0000000001 U/I EA DATE ISSUED 09 08 95 TRAN CD WR TAX JUR WA WD 1.  
ISSUED BY: WHSE 03 AUTHORITY GSM TAX CD  
QTY RECV'D RECEIVED BY: WHSE 03 DATE RECEIVED  
RECEIVER BIN: 2A8F3A

FUNC KEY 724-231-71 TKEY P NO TNO R WHSE 03  
MESSAGES;

B \*\*\* NUM LU #50

*This should be  
PO# 162065 and  
has been confirmed  
with Document Control  
personnel and Materials  
Control personnel.*

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 12/28/95  
Name
- P.O. Box 1551, Raleigh, N. C. 27602-1551 Sheet 1 of 1  
Address
2. Plant Shearon Harris Nuclear Power Plant Unit 1  
Name
- P.O. Box 165, New Hill, N. C. 27562-0165 WR&A 95-ACYQ1  
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Carolina Power and Light Company Type Code Symbol Stamp N/A  
Name Authorization No. N/A
- New Hill, N.C. 27562-0165 Address Expiration Date N/A
4. Identification of System Reactor Coolant (Steam Generator) (3005)
5. (a) Applicable Construction Code ASME Sect. III 1974 Edition, Winter 1976 Addenda, \_\_\_\_\_ Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983
6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Bolts .88-9 UNC	Westinghouse ERIE	N/A	N/A	Part# 724-231-71 PO# 162065	*	Replacement	No

7. Description of Work Replaced bolts with pitting used to attach secondary inspection port cover C3(bolts #1 & #3) and cover C4 (bolts #1 & #3) of the C S/G. \* - See remarks on back.
8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
 Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks In lieu of a Certificate of Conformance, attached is a copy of the receipt inspection record for the subject part and  
Applicable Manufacturer's Data Reports to be attached  
the Supply Inventory System Audit Trail documentation tracing the noted part to the associated PO. The subject S/G Secondary was  
pressurized to its nominal operating pressure and examined during a Class 1 System Leakage Test during startup from RFO6. During  
the Class 1 SLT the S/G, its associated access closures, and other secondary systems are examined for leakage. Documentation of  
the leak integrity of the work noted in item 7, above may be found in the Class 1 System Leakage Test which was documented using  
EST-201, completed 10/8/95 and filed with completed plant procedures. No reports of S/G Leakage were noted at that time.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the  
 repair or replacement  
 ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed N. Sloner ECCS Supervisor Date 2 January, 1996  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the  
 State or Province of North Carolina and employed by The Hartford Steam Boiler and Insurance Company of  
One State Street, Hartford, Connecticut 06102 have inspected the components described  
 in this Owner's Report during the period 05/13/94 to 10/12/95, and state that  
 to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
 Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the  
 examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer  
 shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with  
 this inspection,

Edgar B. Dayton Commissions NC 1042  
 Inspector's Signature National Board, State, Province, and Endorsements

Date 1-2 1996

CAROLINA POWER & LIGHT COMPANY  
RECEIVING INSPECTION REPORT (RIR)

OQA-402  
 Enclosure 1  
 Revision 0  
 Page 14 of 2

883360412

I. No: NA Vendor/ASL: \_\_\_\_\_  
 PO: 12-162015 QA Class:  Q  RWQ  
 FPQ  Other \_\_\_\_\_

Qty	Acc	Rej	Description & ID No.	Documentation	ID & Markings	Gas Blankets	Desiccant	Physical Damage	Cleanliness	Workmanship	Lubricants & Oils	Coatings & Pres.	Dimensions	Weld Preparation	Elec. Insulation
16 ea	16 ea	NA	Bolt	72H-231-71	NA	A	NA	NA	A	A	NA	NA	NA	NA	NA

A - Accept \* - Reject

OTHER INSPECTIONS PERFORMED: NA

INSPECTED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

NONCONFORMANCE/REMARKS: Construction turnover.  
 Inspected per OQA-402  
 Sampling Plan Sample: 5 ea.

INSPECTED BY: M. P. Almond, Jr. 8.16.98 R. J. Smith 8/18/98  
 Receipt Inspector Date QA/QC Specialist Date

II.

Item	Qty	Acc	Rej	Corrective Action/Disposition Details

Completed by  
 Receipt Inspector: \_\_\_\_\_ Date \_\_\_\_\_ QA/QC Specialist \_\_\_\_\_ Date \_\_\_\_\_

\* SIS \* STOCK ISSUE INQUIRY AUDIT TRAIL

PART INFORMATION

MR PART NO. 724-231-71 MFG PART NO. 651B293H13  
WORD: BOLT CLOSURE INVENTORY CLASS 1 R/P P

EXTENDED DESCRIPTION:

BOLT, CLOSURE, OPENING, INSP SOLE SOURCE  
(16'REQ'D PER STEAM GENERATOR).88-9 UNC UNIT WT  
BIN 2A8F3A

REQUISITION (RQ) / RESERVATION (RS) AUTH ERM

REQUISITIONER ERM-NEYMAN DELIVER TO DATE REQUIRED 00 00 00  
PO NUMBER 162065 HEAT NUMBER NA WO 95-ACYQ1 JOB  
CHG TO IAA CHG BY H48 ACT N0114 PROJ A0000016 PHYSID 31B  
ISSUE REQ. NUMBER ALPT17 REQ. QTY 0000000004 DELIVER TO WHSE 03

ACTUAL ISSUE BELOW

QTY.ISSUE 0000000004 U/I EA DATE ISSUED 09 11 95 TRAN CD WR TAX JUR WA & D 1.  
ISSUED BY: WHSE 03 AUTHORITY ERM-NEYMAN TAX CD  
QTY RECV'D RECEIVED BY: WHSE 03 DATE RECEIVED  
RECEIVER BIN: 2A8F3A

FUNC KEY 724-231-71 TKEY P NO TNO R WHSE 03  
(MESSAGES;

B

NUM LU #50

\* SIS \* STOCK ISSUE INQUIRY AUDIT TRAIL

PART INFORMATION

PART NO. 724-231-71 MFG PART NO. 651E293H13  
WORD: BOLT CLOSURE INVENTORY CLASS 1 R/P P

EXTENDED DESCRIPTION:

BOLT,CLOSURE,OPENING,INSP SOLE SOURCE  
(16'REQ'D PER STEAM GENERATOR).88-9 UNC UNIT WT  
BIN 2AA8F3A

REQUISITION (RQ) / RESERVATION (RS) AUTH GSM

REQUISITIONER SRJ-STRICKLI DELIVER TO DATE REQUIRED 00 00 00  
PO NUMBER 162065 HEAT NUMBER N/A WO 95-ACYQ1 JOB  
CHG TO IAA CHG BY H48 ACT N0114 PROJ A0000016 PHYSID 31B  
ISSUE REQ. NUMBER ALGA79 REQ. QTY 0000000001 DELIVER TO WHSE 03

ACTUAL ISSUE BELOW

QTY.ISSUE 0000000001 U/I EA DATE ISSUED 09 11 95 TRAN CD WR TAX JUR WA 4D 1.  
ISSUED BY: WHSE 03 AUTHORITY SRJ-STRICKLI TAX CD  
QTY RECV'D RECEIVED BY: WHSE 03 DATE RECEIVED  
RECEIVER BIN: 2AA8F3A

FUNC KEY 724-231-71 TKEY P NO TNO R WHSE 03  
MESSAGES;

B NUM LU #50



**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 12/26/95  
Name \_\_\_\_\_  
P.O. Box 1551, Raleigh, N. C. 27602-1551 Sheet 1 of 1  
Address \_\_\_\_\_
2. Plant Shearon Harris Nuclear Power Plant Unit 1  
Name \_\_\_\_\_  
P.O. Box 165, New Hill, N. C. 27562-0165 WR&A 95-ADFE1  
Address \_\_\_\_\_ Repair Organization P.O. No., Job No., etc. \_\_\_\_\_
3. Work Performed by Carolina Power and Light Company Type Code Symbol Stamp N/A  
Name \_\_\_\_\_ Authorization No. N/A  
New Hill, N.C. 27562-0165 Address \_\_\_\_\_ Expiration Date N/A  
Address \_\_\_\_\_
4. Identification of System Main Steam (3020)
5. (a) Applicable Construction Code ASME Sect. III 1974 Edition, Winter 1976 Addenda, \_\_\_\_\_ Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983

## 6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Hydraulic Snubber	Paul Monroe Energy Products	PD14233-328	N/A	SG-H-309B	1985	Replaced	No
Hydraulic Snubber	Paul Monroe Energy Products	PD14233-303	N/A	SG-H-309B	1985	Replacement	No

7. Description of Work Replaced S/G-B hydraulic snubber which failed its functional test.
8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  - None  
Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



FORM NIS-2 (Back)

Remarks See attached manufacturer's certification.  
Applicable Manufacturer's Date Reports to be attached

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the repair or replacement

ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed M. Slone ECCS Supervisor Date 27 December, 19 95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by The Hartford Steam Boiler and Insurance Company of One State Street, Hartford, Connecticut 06102 have inspected the components described in this Owner's Report during the period 05/13/94 to 10/12/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Edgar B. Dwyer Commissions NC 1042  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec 28 19 95

# PAUL-MUNROE

Energy Products

Mail to P.O. Box 5900  
Orange, CA 92667

1701 West Sequoia Avenue  
Orange, CA 92668  
Telex 69-7387  
Telecopier (714) 978-0640  
(714) 978-8500

July 29, 1985

SNUBBER REFURBISHMENT  
CAROLINA POWER & LIGHT CO.  
SHEARON HARRIS NUCLEAR POWER PLANT  
C P & L P.O. #H-57278 C/O 2  
SNUBBER S/N'S PD14233-303 thru 314, 323 thru 326 & 328  
P M DRAWING #PD14233 REV. K  
PMH JOB NO. 1T5810N

Paul-Munroe Hydraulics, Inc. hereby certifies the equipment in the above mentioned C P & L P.O. have been refurbished in accordance with C P & L P.O. H-57278 C/O 2 and Paul-Munroe Energy Products Division Quality Assurance Manual, Rev. A, dated 12-18-84.

PAUL-MUNROE HYDRAULICS, INC.  
Energy Products Division

T. M. Cottrill  
Quality Assurance Engineer

TM:bg

ISI  
SUPPORTING DOCUMENT

PMH  
8-6-85

\* SIS \* STOCK ISSUE INQUIRY AUDIT TRAIL

PART INFORMATION

PART NO. 726-599-72 MFG PART NO. PD14233  
ORD: SUPPRESSOR SHOCK INVENTORY CLASS 1 R/P P

ENLARGED DESCRIPTION:

SUPPRESSOR, SHOCK, HYD SOLE SOURCE  
PAUL-MUNROE HYDRAULIC SHOCK SUPPRESSORS FOR STEAM UNIT WT  
GENERATORS BIN 9FB3A3 9FB4A2

REQUISITION (RQ) / RESERVATION (RS) AUTH L KELLY

REQUISITIONER LDK-GULLEDGE DELIVER TO DATE REQUIRED 00 00 00  
PO NUMBER 216901 HEAT NUMBER N/A WO 95-ADFE1 JOB  
CHG TO IAA CHG BY AP2 ACT N0124 PROJ A0000008 PHYSID 31B  
ISSUE REQ. NUMBER ALPD19 REQ. QTY 0000000001 DELIVER TO WHSE 03

ACTUAL ISSUE BELOW

QTY. ISSUE 0000000001 U/I EA DATE ISSUED 09 09 95 TRAN CD WR TAX JUR WA #D 1.  
ISSUED BY: WHSE 03 AUTHORITY LDK-GULLEDGE TAX CD  
QTY REC'D RECEIVED BY: WHSE 03 DATE RECEIVED  
RECEIVER BIN: 9FB3A3

FUNC KEY 726-599-72 TKEY P NO TNO R WHSE 03

MESSAGES;

B

NUM LU #50

B \*\* S I S \*\* - DISPLAY PARTS

726-599-72 KEYWORD SUPPRESSOR SHOCK QA APPVD ENG APPVD LAG  
PART NAME SUPPRESSOR, SHOCK, HYD REQ DATE / / M/P/D P  
MUNROE HYDRAULIC SHOCK SUPPRESSORS FOR STEAM DATE ESTABLISHED 10 24 84  
GENERATORS BY CARROLL/OPS INV. TYPE 1  
CHEM. MGMT

VENDR - MFG PART NUMBER - MSDS MAT'L RESP J STOCK N FAMILY  
78084 - PD14233 - SUB PART  
- - -  
- - - MORE MFG (Y/N)

\*\*\* WAREHOUSE INFORMATION \*\*\* WHSE 03

ACTIVITY PID #D JUR REC. VENDOR SOLE M/E  
E60 1541 1. WA U/I EA U/PTY WHSE DT 01 16 84  
ONHAND QTY 0000000007 POTYPE LT 012 WKS  
UNIT COST 011000.0000 SU/ORDER COST 000000.0000  
MIN 0000000004 MAX 0000000012 SFT STK 0000000000  
REVIEW DT SHELF Y/N/A/R N ABC MID 01CSME

STORAGE B MQC Q CATG CRIT 3 ORDER P R/P/D P CHTL N RECOVER N PM H-326-00

VENDOR INSTR AC INSPECT REQD A BIN 9FB3A3 RANGE

FUNC KEY 726-599-72 TKEY P NO TNO R WHSE 03

SIS0015: HIT THE ENTER KEY TO DISPLAY MORE BIN LOCATIONS.

B NUM LU #50

P

\*\*\* SUPPLY INVENTORY SYSTEM - WAREHOUSE DATA \*\*\*

726-599-72 SUPPRESSOR,SHOCK,HYD

WHSE 03

\*\*\* DOCUMENTATION CODES \*\*\*

\*\* SPEC# \*\*

\*\*\* NAME PLATE DATA \*\*\*

ORIGINAL P.O. WESTINGHOUSE 216901,UNIT 3,CTL

\*\*\* MISCELLANEOUS COMMENTS \*\*\*

ITEM IN BIN-9PB2A1 AS OF 05-23-91 (SNW). ITEM IS  
"ON HOLD" REF: WR&A91-AHQ12 AND DEFICIENCY TAG#  
14178 (BAILEY) RESPONSIBLE FOREMAN: GREG THOMAS.

FUNC KEY 726-599-72

TKEY P NO

TNO R WHSE 03

SIS0017: PLEASE ENTER NEXT FUNCTION, -OR-

SIS0198: HIT THE ENTER KEY TO REDISPLAY FIRST WAREHOUSE

B \*\*\*

NUM LU #50

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS  
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 12/21/95  
Name  
P.O. Box 1551, Raleigh, N. C. 27602-1551 Address Sheet 1 of 1
2. Plant Shearon Harris Nuclear Power Plant Unit 1  
Name  
P.O. Box 165, New Hill, N. C. 27562-0165 Address 95-ADLK1 (ESR 94-00252)  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Carolina Power & Light Company Type Code Symbol Stamp N/A  
Name  
New Hill, N.C. 27562-0165 Address Authorization No. N/A  
Expiration Date N/A
4. Identification of System Containment Building Purge System (8170)
5. (a) Applicable Construction Code ASME Sect. III 1974 Edition, W 1976 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983
6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Butterfly Valve	BIF	N-67927-2	555	1CP-3 2CP-B6SB-1	1985	Replaced	Yes
Valve	Enertech	10366	4	Same as above	1995	Replacement	Yes
Hex Cap Screw 1/2-10 X 2"	Texas Bolt Co.	See C of C	N/A	Part# 727-411-92 PO# Ref. Item 9	See C of C	Replacement	No
Hex Cap Screw 1/2-10 X 2"	Texas Bolt Co.	Ht# 6050432	N/A	Part# 727-412-00 PO# 253820	1986	Replacement	No
Same	Same	Ht# 827595 Ht# L81767	N/A	PO# 476610	1988	Replacement	No

7. Description of Work Replaced 8" Basic In Flow Butterfly valve with <sup>249, 12/195</sup> 8" Permaseat Model MAK Lugged wafer valve to improve reliability.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
Other  Pressure 44(+0.5, -0) psi Test Temp. Ambient °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

Remarks See attached manufacturer's data reports and certificates of conformance. Pressure test was via a type C LLRT per 10CFR50  
Applicable Manufacturer's Data Reports to be attached  
Appendix J using EST-220, completed 10/6/95, and filed with completed plant procedures. The 2" capscrews, part# 727-411-92, were  
installed but their respective POW was not recorded. The Supply Inventory System database was reviewed and it was determined that  
only 4 POWs have been received for this part and all 4 supplied Code parts therefore Code parts were used. The following POWs  
would have supplied this part and each of their Cs of C is attached: POW 253820, POW 8G5389, POW 7F9778, and POW 8F5891.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the repair or replacement ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature] for A. Slower ECCS Supervisor Date 12/22, 19 95  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by The Hartford Steam Boiler and Insurance Company of One State Street, Hartford, Connecticut 06102 have inspected the components described in this Owner's Report during the period 05/13/94 to 10/12/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] B. Dayton Commissions NC 1042  
 Inspector's Signature National Board, State, Province, and Endorsements

Date Dec 27 19 95





FORM NPV-1 (Back - Pg. 2 of 2)

Certificate Holder's Serial No. 10363 thru 10366

- 8. Design conditions \_\_\_\_\_ 45 \_\_\_\_\_ psi \_\_\_\_\_ 236 \_\_\_\_\_ °F or valve pressure class \_\_\_\_\_ 150 \_\_\_\_\_ (1)
- 9. Cold working pressure \_\_\_\_\_ 285 \_\_\_\_\_ psi at 100°F
- 10. Hydrostatic test \_\_\_\_\_ 450 \_\_\_\_\_ psi. Disk differential test pressure \_\_\_\_\_ 325 \_\_\_\_\_ psi
- 11. Remarks: Qty: 4, Permaseat Lugged Wafer Valves

**CERTIFICATION OF DESIGN**

Design Specification certified by Albert Macon Worth P.E. State No. Carolina Reg. no. 7277  
 Design Report certified by Ira Jay Silverman P.E. State California Reg. no. 23241

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N-2826 Expires 10/26/96

Date 7/27/95 Name ENERTECH Signed Ronald Hillis  
(N Certificate Holder) (authorized representative)

**CERTIFICATE OF INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California and employed by DOSH-PV of State of California have inspected the pump, or valve, described in this Data Report on 7/27/95 and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/27/95 Signed CHL a Commission 7359NB / Ca. 1234  
(Authorized Inspector) (Nat'l. Bd. (incl. governmental and state or prov. and no.)

(1) For manually operated valves only.

888.845

3



*Solutions for today ... Standards of tomorrow*  
(714) 528-2301

2950 Birch Street, Brea, CA 92621  
FAX (714) 528-0128 • Telex 69-2387

## Certificate of Conformance

Date: July 27, 1995

Customer PO No. 8E1005CJ

Customer: Carolina Power & Light Co.

Enertech Job No. 13318V

Site: Shearon Harris

File: 64309

*Enertech certifies that the parts referenced hereon were produced in accordance with the purchase order cited above and that Enertech has on file the required data to substantiate conformance to applicable procurement specifications.*

*Enertech further certifies that all tests and inspections required by the customer's purchase order(s) have been performed and that all items supplied herewith conform to the specified requirements.*

<u>P.O. Item No.</u>	<u>Qty.</u>	<u>Part Number</u>	<u>Description</u>
01	4	PD97602	8" PermaSeat Lugged Water Valve, Class 150 Serial Numbers 10363-10366

**Additional Requirements:**

This certifies that the above items were manufactured in accordance with the ASME Boiler and Pressure Vessel Code, Subsection NC, Class 2, 1977 Edition, Winter 1978 Addenda, under Enertech's Certificate of Authorization No. N-2826 which expires 10/26/96. This further certifies that these items were supplied in accordance with Enertech's Quality Assurance Manual, Second Edition, Rev. 1 dated 4/1/95.

*Rosalie Hillis*  
\_\_\_\_\_  
Signature  
Rosalie Hillis  
\_\_\_\_\_  
Name  
Quality Assurance Engineer  
\_\_\_\_\_  
Title

*Performance of installation and associated service required by a certified Enertech technician.*

1. PCP CAROLINA POWER & LIGHT CO.

CUSTOMER P.O. No. 253820AV

TEXAS BOLT ORDER No. 187075

6/16/86 RG

# TEXAS BOLT COMPANY

P. O. BOX 1211

HOUSTON, TEXAS 77251-1211

## REPORT OF PHYSICAL AND CHEMICAL TESTS

01. 86-3063

02. 86-3060

04. 86-3064

03. 86-3061

05. 86-3059

REPORT No. 06. 86-3062

10 CFR 21 APPLIES

NCA 3800 APPLIES

ASME SA193-83 GRADE B7

"REPLACEMENT"

SPECIFICATIONS:

NRM

HNP

ITEM	Description	Material	Quantity	No. Pcs. Tested	Step Block Tensile	Ultimate Tensile PSI	Yield Strength 2% Elong	Elong 2" %	RA. %	Hardness	Minimum Tempering Temperature
	FINISHED HEX HEAD BOLTS										
	PART 727-411-35										
	01. 5/8" x 5	4140	50	2		139,800	124,400	19.7	59.8		1100°F.
	PART 727-411-76	4140	20	2		138,800	123,500	19.9	59.6		1100°F.
	02. 3/4" x 1	4140	20	2		143,800	128,500	20.2	60.3		1100°F.
	PART 727-411-84	4140	20	2		135,800	120,500	18.9	58.7		1100°F.
	03. 3/4" x 1-1/2	4142	20	2		140,900	125,700	19.8	60.6		1100°F.
	PART 727-411-92	4142	40	2		138,300	123,100	18.7	59.8		1100°F.
	04. 3/4" x 2	4140	20	2							
	PART 727-412-00										
	05. 3/4" x 2-1/2	4140	40	2							
	PART 727-412-26										
	06. 3/4" x 3-1/2	4140	40	2							
	"ALL MATERIAL IS OF U.S. ORIGIN AND MANUFACTURE." "ALL MATERIAL IN ACCORDANCE WITH ASME SA614-83."										

Item No.	Visual Inspection			Heat Number	C	Mn	Si	S	P	Cr	Ni	Mo	V
	No. Tested	Accepted	Rejected										
01.	50	50	0	8076601	.380	.87	.25	.032	.011	.90		.22	
02. & 03.	40	40	0	N36036	.40	.84	.23	.018	.014	.89		.19	
04.	20	20	0	8088856	.410	.92	.22	.029	.012	1.01		.23	
05.	40	40	0	6050432	.420	.92	.22	.022	.008	.95		.16	
06.	40	40	0	L24856	.39	.88	.27	.015	.008	.94		.20	

"VISUAL INSPECTION PER SA614-83 PAR. RU."  
 "ALL MATERIAL IS FURNISHED IN ACCORDANCE WITH TEXAS BOLT COMPANY'S QUALITY PROGRAM MANUAL REV. 7, DATED 4-26-83, WHICH WAS AUDITED AND APPROVED BY CP & L CO. 3-3-86."  
 "ALL MATERIAL IS IN ACCORDANCE WITH ASME SECTION III, CLASS 2, 1974 EDITION INCLUDING THE WINTER 1976 ADDENDA."

HEAT TREAT TIME AND TEMPERATURE  
 QUENCH - 1600°F. 1 HOUR 15 MIN.  
 TEMPER - 1120°F. 1 HOUR 15 MIN.

INSPECTOR EVALUATION APPROVED BY:  
 EDWARD J. CHARANZA, LEVEL III INSPECTOR

STATE OF TEXAS  
 COUNTY OF HARRIS

Subscribed and sworn to before me this 16th day of JUNE, 19 86

I certify the above results to be correct as contained in the records of the company.

*Blanca E. Ramirez*  
 Notary public in and for Harris County, Texas.  
 My commission expires May 31, 1989

198209598

*Edward J. Charanza*  
 N.D.E. LEVEL III INSPECTOR

6-26-86  
*Ed*

# TEXAS BOLT COMPANY

Manufacturers of Industrial Fasteners

3233 WEST 11th ST. • P.O. BOX 1211

HOUSTON, TEXAS 77251-1211

CABLE: "TEXBOLT"

PHONE 889-7111

AREA CODE 713

883613414

August 25, 1988

CAROLINA POWER & LIGHT COMPANY  
C/O ACCOUNTS PAYABLE UNIT  
P. O. BOX 1551  
RALEIGH, NORTH CAROLINA 27602

YOUR ORDER NO: 476610AS  
OUR ORDER NO: 220414

Gentlemen:

We hereby certify that the Cap Screws, on your above order were produced, inspected, and/or tested in accordance with specifications:

ASME SA193 GRADE B7

These products meet all applicable requirements.

"ALL MATERIAL IS OF U.S. ORIGIN AND MANUFACTURE."

"10 CFR 21 APPLIES AND 10 CFR 50 APPENDIX B APPLIES."

"VISUAL EXAMINATION PER SA614 PARA RU."

"ALL MATERIAL IS MANUFACTURED IN ACCORDANCE WITH TEXAS BOLT COMPANY'S CONTROL MANUAL REV.7, DATED 4-26-83, WHICH WAS QUALIFIED, SURVEYED, AND/OR AUDITED BY CAROLINA POWER & LIGHT CO. 2-9-87."

ALL MATERIAL IN ACCORDANCE WITH ASME SECTION III, CLASS 2, 1986 EDITION NO ADDENDA.

ALL MATERIAL IN ACCORDANCE WITH ASME SECTION II, 1986 EDITION THROUGH 1987 ADDENDA.

Very truly yours,

*Edward J. Garanza*  
EDWARD J. GARANZA  
NDE LEVEL III INSPECTOR

EJC/SC

State of Texas  
County of Harris

Subscribed and sworn to before me this 25th day of August, 1988

*Blanca E. Benavides*  
Notary public in and for Harris County, Texas  
My commission expires *May 31, 1989*

*8/24/88*

FOR CAROLINA POWER & LIGHT COMPANY

CUSTOMER P.O. NO. 476610AS

TEXAS BOLT ORDER NO. 220414  
08/25/88 SC

TEXAS BOLT COMPANY  
P.O. BOX 1211  
HOUSTON, TEXAS 77251-1211

1. ASME SA193 GRADE B7 SPECIFICATIONS

REPORT OF PHYSICAL AND CHEMICAL TESTS

ITEM	DESCRIPTION	REPORT	MATERIAL	QUANTITY	NO. PCS TESTED	Spec No	Tensile PSI	Yield Strength %	Elongation 2"	RA. %	MINIMUM Hardness	TEMPERING
1.	FINISHED HEX HEAD CAPSCREWS 3/4"-10 x 2-1/2		4140	25	2	1	140,000	126,000	23.8	61.5		1100F
<p>"ALL MATERIAL IS OF U.S. ORIGIN AND MANUFACTURE."            "10 CFR 21 APPLIES AND 10 CFR 50 APPENDIX B APPLIES."            "VISUAL EXAMINATION PER SA614 PARA RU."            "ALL MATERIAL IS MANUFACTURED IN ACCORDANCE WITH TEXAS BOLT COMPANY'S CONTROL MANUAL REV.7 DATED 4-26-83, WHICH WAS QUALIFIED, SURVEYED, AND/OR AUDITED BY CAROLINA POWER &amp; LIGHT CO. 2-9-87."            ALL MATERIAL IN ACCORDANCE WITH ASME SECTION III. CLASS 2.            1986 EDITION NO ADDENDA.            ALL MATERIAL IN ACCORDANCE WITH ASME SECTION II,            1986 EDITION THROUGH 1987 ADDENDA.</p>												
<p>Note: 'Spec No' column indicates specification number at top of page</p>												

883613415

ITEM NO.	Visual Inspection			HEAT NUMBER	C	Mn	Si	S	P	Cr	Ni	Mo	V
	NO TESTED	ACCEPTED	REJECTED										
1.	25	25	0	02T595	.40	.82	.17	.025	.02	.77		.19	
<p>Quench in oil 1600 deg F. 1 hour(s) 0 minute(s) Temper in air 1120 deg F. 1 hour(s) 0 minute(s)</p>													

HNP NRM

STATE OF TEXAS  
COUNTY OF HARRIS

Inspector Evaluation Approved by:  
EDWARD J CHARANZA NDE LEVEL III INSPECTOR

Subscribed and sworn to before me this 25th day of August 19 88

I certify the above results to be correct as contained in the records of the company.

*Blanca E. Bensside*  
Notary public in and for Harris County, Texas

My commission exp. res May 31, 1989

*9/4/88*

*Edward J Charanza*  
NDE LEVEL III INSPECTOR

# TEXAS BOLT COMPANY

Manufacturers of Industrial Fasteners

3233 WEST 11th ST. • P.O. BOX 1211

HOUSTON, TEXAS 77251-1211

CABLE: "TEXBOLT"

PHONE: 889-7111  
AREA CODE 713

October 12, 1988

CAROLINA POWER & LIGHT CO.  
C/O ACCOUNTS PAYABLE UNIT  
P. O. BOX 1551  
RALEIGH, NC 27602

YOUR ORDER NO: 476610AS REPLACEMENT  
OUR ORDER NO: 22 0414

Gentlemen:

We hereby certify that the Cap Screws, on your above order were produced, inspected, and/or tested in accordance with specifications:

ASME SA193 GRADE B7 ✓

These products meet all applicable requirements.

"ALL MATERIAL IS OF U.S. ORIGIN AND MANUFACTURE." "10 CFR 21 APPLIES"  
"ALL MATERIAL IS MANUFACTURED IN ACCORDANCE WITH TEXAS BOLT COMPANY'S CONTROL MANUAL REV. 7, DATED 4-26-83, WHICH WAS QUALIFIED, SURVEYED, AND/OR AUDITED BY CAROLINA POWER & LIGHT CO. 2-9-87. ✓  
ALL MATERIAL IN ACCORDANCE WITH ASME SECTION III, CLASS 2, 1986 EDITION NO ADDENDA.  
ALL MATERIAL IN ACCORDANCE WITH ASME SECTION II, 1986 EDITION THROUGH 1987 ADDENDA.

Very truly yours,

*Sharon Charanza*  
SHARON CHARANZA  
NDE LEVEL III INSPECTOR

SC /ml

State of Texas  
County of Harris

Subscribed and sworn to before me this 12th day of October, 1988

*Blanca E. Benavide*  
Notary public in and for Harris County, Texas  
My commission expires May 31, 1989

10-19-88 10-20-88

FOR CAROLINA POWER & LIGHT CO.

CUSTOMER P.O. NO. 476610AS REPLACEMENT

TEXAS BOLT ORDER NO. 22 0414

10/12/88 ml

8839, 980  
TEXAS BOLT COMPANY  
P.O. BOX 1211

HOUSTON, TEXAS 77251-1211

1. ASME SA193 GRADE F7 SPECIFICATIONS

REPORT OF PHYSICAL AND CHEMICAL TESTS

ITEM	DESCRIPTION	REPORT	MATERIAL	QUANTITY	NO. PCS TESTED	Spec No	Tensile PSI	Yield Strength	Elg % 2"	RA. %	Minimum Tempering
1.	3/4"-10 x 2-1/2		4140	13	2	1	39,000	124,000	22.0	67.7	1100F

"ALL MATERIAL IS OF U.S. ORIGIN AND MANUFACTURE." "10 CFR 21 APPLIES"  
 "ALL MATERIAL IS MANUFACTURED IN ACCORDANCE WITH TEXAS BOLT COMPANY'S CONTROL MANUAL REV. 7, DATED 4-26-83, WHICH WAS QUALIFIED, SURVEYED, AND/OR AUDITED BY CAROLINA POWER & LIGHT CO. 2-9-87."  
 ALL MATERIAL IN ACCORDANCE WITH ASME SECTION III, CLASS 2, 1986 EDITION NO ADDENDA  
 ALL MATERIAL IN ACCORDANCE WITH ASME SECTION II, 1986 EDITION THROUGH 1987 ADDENDA.

Note: 'Spec No' column indicates specification number at top of page

ITEM NO	Visual Inspection			HEAT NUMBER	C	Mn	Si	S	P	Cr	Ni	Mo	V
	NO. TESTED	ACCEPTED	REJECTLD										
1.	13	13	0	L01767	.38	.79	.26	.015	.011	.93		.21	
Quench in oil 1600 deg F.				1 hour(s)	0 minute(s)		Temper	1120 deg F.	1 hour(s)	0 minute(s)			

HNP NRM  
 ID

STATE OF TEXAS  
 COUNTY OF HARRIS

Subscribed and sworn to before me this 12th day of October 19 88

*Blanca E. Benavide*  
 Notary public in and for Harris County, Texas.

My commission expires

May 31, 1989

Inspector Evaluation Approved by:  
 SHARON CHARANZA NDE LEVEL III INSPECTOR

I certify the above results to be correct as contained in the records of the company.

*Sharon Charanza*  
 NDE LEVEL III INSPECTOR

MACKSON, I N C O R P O R A T E D  
P.O. BOX 122  
2346 SOUTHWAY DRIVE  
ROCK HILL, SOUTH CAROLINA 29730  
(803)329-6545

TO: CAROLINA POWER & LIGHT  
HARRIS NUCLEAR PLANT  
OPS RCVG BLDG SR1134  
NEW HILL, NC 27562

DATE OF SHIPMENT: August 4, 1995

SUBJECT: CERTIFICATE OF COMPLIANCE

MACKSON, INC. CERTIFIES THAT THE MATERIALS FURNISHED TO YOU ON YOUR PURCHASE ORDER 8G5389AS WAS PROCESSED IN ACCORDANCE WITH MACKSON INCORPORATED. QSC# 554 EXPIRATION DATE MARCH 15, 1997 AND QUALITY SYSTEM MANUAL DATED OCTOBER 11, 1994 REVISION 4.

<u>ITEM</u>	<u>QUANTITY</u>
1) PART# 727-411-92 ✓ 3/4-10 X 2 HEX HD CAPSCREW SA193 GRADE B7 HEAT# 8867921 ✓	30 PCS.

THIS MATERIAL IS IN ACCORDANCE WITH ALL THE REQUIREMENTS OF CAROLINA POWER & LIGHT PO# 8G5389AS, SITE SPEC. 055 REV.8, AND ASME SECTION III CLASS 2, 1974 EDITION WINTER 1976 ADDENDA.  
10 CFR PART 21 APPLIES.

Thomas R. Sharp Jr  
QUALITY ASSURANCE MANAGER

August 4, 1995  
DATE

AP 8.9.95



FOR MACKSON, INC.



# TEXAS BOLT COMPANY

3233 W. 17th Street  
Houston, TX 77008

P.O. Box 1211  
Houston, TX 77261-1211  
713/888-7111

1. ASME SA193 GRADE B7 SPECIFICATIONS

CUSTOMER P.O. NO. 26713  
\*\* AMENDED 06/06/95 WH  
TEXAS BOLT ORDER NO. 24195-4  
06/01/95 WH

## REPORT OF MECHANICAL AND CHEMICAL TESTS

ITEM	DESCRIPTION	REPORT	MATERIAL	QUANTITY	NO. PCS TESTED	SPEC NO	TENSILE PSI	YIELD STRENGTH 2% 2"	ELG %	RA %	MINIMUM TEMPERING
FINISHED HEX HEAD CAPSCREWS											
1.	5/8"-11 X 2		4140	300	1	1	141,800	127,600	17.9	56.8	1100F
2.	3/4"-10 X 2		4140	114	1	1	146,800	133,900	19.0	58.5	1100F

"10 CFR 21 & 10 CFR 50 APPENDIX B APPLIES" ANSI N45.2 & NCA 3800  
 "ALL MATERIAL IS OF U.S. ORIGIN AND MANUFACTURE."  
 "FREE OF WELD REPAIR AND NO MERCURY CONTAMINATION."  
 "ALL MATERIAL IS MANUFACTURED IN ACCORDANCE WITH TEXAS BOLT COMPANY'S CONTROL MANUAL REV. 9, DATED 01/27/92, WHICH WAS QUALIFIED SURVEYED AND/OR AUDITED BY MACKSON, INC. ON 3-29-95."  
 "ALL MATERIAL IN ACCORDANCE WITH ASME SECTION II & SECTION III, CLASS 1 1992 EDITION THROUGH 1993 ADDENDA"  
 "VISUAL INSPECTION PER SA814 PARA RU AND F78B"

CUSTOMER CP+L  
 PO# 86538945  
 ITEM# 1

Note: 'Spec No' column indicates specification number at top of page

ITEM NO	Visual Inspection			HEAT NUMBER	C	Mn	Si	S	P	Cr	Ni	Mo	V
	NO TESTED	ACCEPTED	REJECTED										
1.	300	300	0	47987	.40	.87	.28	.013	.011	.87		.17	
Quench	n oil	600 deg F.		hour(s)	0 minute(s)	Temper in oil 1120 deg F. 1 hour(s) 0 minute(s)							
				Avg Chem Check	.43	.90	.25	.013	.004	.88		.18	
2.	114	114	0	8867921	.42	.92	.22	.027	.012	1.02		.22	
Quench	n oil	600 deg F.		hour(s)	0 minute(s)	Temper in oil 1120 deg F. 1 hour(s) 0 minute(s)							
				Avg Chem Check	.40	.88	.23	.039	.026	1.00		.18	

Q.A. REVIEWED  
DATE 6-6-95 JS



STATE OF TEXAS  
COUNTY OF HARRIS

Subscribed and sworn to before me this 6th day of June, 1995

*Connie C. H.*  
Notary Public in and for Harris County, Texas

My commission expires 12-27-95

### NOTICE!

This report must not be altered in any manner. This report is to be presented only for the exact product and quantity of product described above. Bolts described in this report must be marked on the head with either "TB" or "Texas Bolt". Nuts and Studs described in this report must be marked with a "T". These marks are registered trademarks of Texas Bolt Company, Inc., and no other markings are certified by this report. If you suspect any alteration has been made to this report, or if you would like verification of its authenticity, please contact Quality Assurance Manager, Texas Bolt Company, 1-800-237-1887.

INSPECTOR EVALUATION APPROVED BY:  
W.E. WINDT NDE LEVEL III INSPECTOR

I certify the above results to be correct as contained in the records of the company.

*W.E. Windt*  
Authorized Signature

NDE LEVEL III INSPECTOR

FROM TEXAS 4:29AM 07-06-1995

8445

HNP NRM

MACKSON, INCORPORATED  
P.O. BOX 12067  
5025 OLD YORK ROAD  
ROCK HILL, SOUTH CAROLINA 29731  
(803)329-6545

TO: CAROLINA POWER & LIGHT  
HARRIS NUCLEAR PLANT  
OPS RCVG BLDG SR1134  
NEW HILL, NC 27562

DATE OF SHIPMENT: February 26, 1993

SUBJECT: CERTIFICATE OF COMPLIANCE

MACKSON, INC. CERTIFIES THAT THE MATERIALS FURNISHED TO YOU ON YOUR PURCHASE ORDER 7F9778AS WAS PROCESSED IN ACCORDANCE WITH MACKSON INC. QSC# 554 EXPIRATION DATE 3-15-94, AND QUALITY SYSTEM MANUAL DATED 1-7-92, REVISION 1.

ITEM

QUANTITY

1) PART# 727-411-92 3/4-10 X 2 HEX HD CAPSCREW SA193 GR. B7 HEAT# 50087	45 PCS.
--	---------

THIS MATERIAL IS IN ACCORDANCE WITH CP&L PO# 7F9778AS, SITE SPEC. 055 REV.8, AND ASME SECTION III CLASS 2 (NC), 1974 EDITION WINTER 1976 ADDENDA.

Thomas R. Day Jr.  
QUALITY ASSURANCE MANAGER

February 26, 1993  
DATE

DR. MACKSON, INC.

CUSTOMER P.O. NO. 25101

TEXAS BOLT ORDER NO. 012451  
02/24/93 KF



TEXAS BOLT COMPANY

3233 W. 11th Street  
Houston, TX 77008

P.O. Box 1211  
Houston, TX 77261-1211  
713/969-7111

SPECIFICATIONS:  
1. ASME SA193 GRADE B7

REPORT OF MECHANICAL AND CHEMICAL TESTS

ITEM	DESCRIPTION	REPORT	MATERIAL	QUANTITY	NO. PCS TESTED	Spec No	Tensile PSI	Yield Strength	Elongation 2"	RA. %	MINIMUM Hardness	MINIMUM Tempering
FINISHED HEX HEAD BOLTS												
1.	3/4-10 X 2		4140	100	1	1	144,300	130,400	18.4	57.5		1100F
2.	1/2-13 X 1 1/2		4140	100	1	1	149,400	128,100	20.6	69.1		1100F

"ALL MATERIAL IS OF U.S. ORIGIN & MANUFACTURE" "10 CFR PART 21 APPLIES"  
 "VISUAL EXAMINATION PER ASME SA614 PARA RU AND F788."  
 "ALL MATERIAL IS OF U.S. ORIGIN AND MANUFACTURE. FREE OF WELD REPAIR AND NO MERCURY CONTAMINATION."  
 "ALL MATERIAL IS MANUFACTURED IN ACCORDANCE WITH TEXAS BOLT COMPANY'S CONTROL MANUAL REV. 8, DATED 2-13-89, WHICH WAS QUALIFIED, SURVEYED AND/OR AUDITED BY MACKSON, INC ON 02/21/92."  
 ALL MATERIAL IN ACCORDANCE WITH ASME SECTION III, CLASS 1, 1974 EDITION THRU WINTER 1976."

Note: 'Spec No' column indicates specification number at top of page

ITEM NO.	Visual Inspection			HEAT NUMBER	C	Mn	Si	S	P	Cr	Ni	Mo	V
	NO TESTED	ACCEPTED	REJECTED										
1.	100	100	0	50087	.41	.79	.23	.018	.006	.92		.19	
Quench in oil 1600 deg F. 1 hour(s) 0 minute(s) Temper in oil 1120 deg F. 1 hour(s) 0 minute(s)													
2.	100	100	0	50087	.41	.86	.24	.022	.011	1.00		.20	
Quench in oil 1600 deg F. 1 hour(s) 0 minute(s) Temper in oil 1120 deg F. 1 hour(s) 0 minute(s)													
	100	100	0	49052	.40	.82	.23	.015	.01	.86		.19	
Quench in oil 1600 deg F. 1 hour(s) 0 minute(s) Temper in oil 1120 deg F. 1 hour(s) 0 minute(s)													
	100	100	0	49052	.41	.92	.26	.024	.015	1.03		.19	

STATE OF TEXAS  
COUNTY OF HARRIS

Subscribed and sworn to before me this 25<sup>th</sup> day of February 1993  
*Connie Gera*  
 Notary Public in and for Harris County, Texas  
 My commission expires 12-27-95



Q.A. REVIEWED  
DATE 2-24-93

NOTICE!

This report must not be altered in any manner. This report is to be presented only for the exact product and quantity of product described. Bolts described in this report must be marked on the head with either "TB" or "Texas Bolt". Nuts and Studs described in this report must be marked with a "T". These marks are registered trademarks of Texas Bolt Company, Inc. and no other markings are certified by this report. If you suspect any alteration has been made to this report, or if you would like verification of its authenticity, please contact Quality Assurance Manager, Texas Bolt Company, 1-800-237-1587.

Inspector Evaluation Approved by:  
J. P. ROBINSON NDE LEVEL III INSPECTOR

I certify the above results to be correct as contained in the reports of the company.

*Jonathan Robinson*  
 Authorized Signature

NDE LEVEL III INSPECTOR

HNF NRM

MACKSON, INCORPORATED  
P.O. BOX 12067  
2346 SOUTHWAY DRIVE  
ROCK HILL, SOUTH CAROLINA 29730  
(803)329-6545

TO: CAROLINA POWER & LIGHT  
HARRIS NUCLEAR PLANT  
CRDF-HO3 STATE RD 1134  
NEW HILL, NC 27562

DATE OF SHIPMENT: JUNE 7, 1995

SUBJECT: CERTIFICATE OF COMPLIANCE

MACKSON, INC. CERTIFIES THAT THE MATERIALS FURNISHED TO YOU ON YOUR PURCHASE ORDER 8F5891AS WAS PROCESSED IN ACCORDANCE WITH MACKSON INCORPORATED. QSC# 554 EXPIRATION DATE MARCH 15, 1997 AND QUALITY SYSTEM MANUAL DATED OCTOBER 11, 1994 REVISION 4.

ITEM

QUANTITY

1) PART# 727-411-92	
3/4-10 X 2 HEX HD CAPSCREW	
SA193 GRADE B7	
HEAT# 8898247	10 PCS.
HEAT# 8867921	14 PCS.
	24 PCS. TOTAL

THIS MATERIAL IS IN ACCORDANCE WITH CAROLINA POWER & LIGHT PO# 8F5891AS, SPEC. 055 REV.8, AND ASME SECTION III CLASS 2(NC), 1974 EDITION WINTER 76 ADDENDA.

10 CFR PART 21 APPLIES.

Thomas R. Shays Jr.  
QUALITY ASSURANCE MANAGER

June 7, 1995  
DATE

FOR MACKSON, INC.

**TEXAS BOLT COMPANY**

3233 W. 11th Street  
Houston, TX 77008

P.O. Box 1211  
Houston, TX 77251-1211  
713/868-7111

1. / 3ME SA193 GRADE 87 SPECIFICATIONS

CUSTOMER P.O. NO. 26713  
REVISED 08/08/95 WH  
TEXAS BOLT ORDER NO. 24195-4  
08/01/95 WH

**REPORT OF MECHANICAL AND CHEMICAL TESTS**

ITEM	DESCRIPTION	REPORT	MATERIAL	QUANTITY	NO. PCS. TESTED	SPEC NO	TENSILE PSI	YIELD Strength, 2% Elongation	RA, % Hardness	MINIMUM TEMPERING	
FINISHED HEX HEAD CAPSCREWS											
1.	5/8"-11 X 2		4140	300	1	1	141,800	127,600	17.9	56.8	1100F
2.	3/4"-10 X 2		4140	114	1	1	146,800	133,900	19.0	58.5	1100F

"10 CFR 21 & 10 CFR 50 APPENDIX B APPLIES" ANSI N45.2 & NCA 3800  
 "ALL MATERIAL IS OF U.S. ORIGIN AND MANUFACTURE."  
 "FREE OF WELD REPAIR AND NO MERCURY CONTAMINATION."  
 "ALL MATERIAL IS MANUFACTURED IN ACCORDANCE WITH TEXAS BOLT COMPANY'S CONTROL MANUAL REV. 9, DATED 01/27/92, WHICH WAS QUALIFIED SURVEYED AND/OR AUDITED BY MACKSON, INC. ON 3-29-95."  
 ALL MATERIAL IN ACCORDANCE WITH ASME SECTION II & SECTION III, CLASS 1  
 1992 EDITION THROUGH 1993 ADDENDA  
 "VISUAL INSPECTION PER SA614 PARA RU AND F78B"

CUSTOMER Copied  
PO# 8FS891AS  
ITEM# 1

Note: 'Spec No' column indicates specification number at top of page

ITEM NO	Visual Inspection			HEAT NUMBER	C	Mn	Si	S	P	Cr	Ni	Mo	V
	NO TESTED	ACCEPTED	REJECTED										
1.	300	300	0	47987	.40	.87	.26	.013	.011	.87		.17	
Quench	n oil	600 deg F.	1 hour(s)	0 minute(s)	Temper in oil 1120 deg F.								
			Avg Chem Check		.43	.90	.25	.013	.004	.88		.18	
2.	114	114	0	8867921	.42	.92	.22	.027	.012	1.02		.22	
Quench	n oil	600 deg F.	1 hour(s)	0 minute(s)	Temper in oil 1120 deg F.								
			Avg Chem Check		.40	.88	.23	.039	.028	1.00		.18	

Q.A. REVIEWED  
DATE 6-4-95 TS



STATE OF TEXAS  
COUNTY OF HARRIS  
Subscribed and sworn to before me this 14th day of June 1995  
[Signature]  
Notary Public in and for Harris County, Texas  
My commission expires 12-27-95

INSPECTOR EVALUATION Approved by:  
W.E. WINDT NDE LEVEL III INSPECTOR

I certify the above results to be correct as contained in the records of the company.  
[Signature]  
Authorized Signature

NDE LEVEL III INSPECTOR

**NOTICE!**  
This report must not be altered in any manner. This report is to be presented only for the exact product and quantity of product described above. Bolts described in this report must be marked on the head with either "TB" or "Texas Bolt". Nuts and Studs described in this report must be marked with a "T". These marks are registered trademarks of Texas Bolt Company, Inc., and no other markings are certified by this report. If you suspect any alteration has been made to this report, or if you would like verification of its authenticity, please contact Quality Assurance Manager, Texas Bolt Company, 1-800-237-1887.

REVISED 06/06/95 WH

FROM TEXAS BOLT CO. 6-06-1995 9:29AM

FOR MACKSON, INC.

CUSTOMER P.O. NO. 26658

TEXAS BOLT ORDER NO. 023876  
"01/30/95 GL



**TEXAS BOLT COMPANY**

3233 W. 11th Street  
Houston, TX 77008

P.O. Box 1211  
Houston, TX 77251-1211  
713/869-7111

SPECIFICATIONS  
1. ASME SA193 GRADE B7

**REPORT OF MECHANICAL AND CHEMICAL TESTS**

ITEM	DESCRIPTION	REPORT	MATERIAL	QUANTITY	NO PCS TESTED	Spec No	Tensile PSI	Yield Strength	Elg % 2"	RA. %	Hardness	Minimum Tempering
1.	FINISHED HEX HEAD BOLTS 3/4"-10 X 2		4140	35	1	1	154,000	143,200	18.9	57.4		1100F

"10 CFR 21 & 10 CFR 50 APPENDIX B APPLIES" ANSI W45.2 & NCA 3800  
 "ALL MATERIAL IS OF U.S. ORIGIN AND MANUFACTURE."  
 "FREE OF WELD REPAIR AND NO MERCURY CONTAMINATION."  
 "ALL MATERIAL IS MANUFACTURED IN ACCORDANCE WITH TEXAS BOLT COMPANY'S CONTROL MANUAL REV. B, DATED 01/27/92, WHICH WAS QUALIFIED SURVEYED AND/OR AUDITED BY MACKSON, INC ON 2-8-94."  
 ALL MATERIAL IN ACCORDANCE WITH ASME SECTION II & SECTION III CLASS 2 1989 EDITION THROUGH 1989 ADDENDA  
 "VISUAL INSPECTION PER SA614 PARA RU AND F78B

CUSTOMER: CP+L  
PO#: 8F5891AS  
ITEM#: 1

Note: 'Spec No' column indicates specification number at top of page

ITEM NO.	Visual Inspection			HEAT NUMBER	C	Mn	Si	S	P	Cr	Ni	Mo	V
	NO. TESTED	ACCEPTED	REJECTED										
1.	35	35	0	8898247	.43	.92	.22	.026	.013	1.02		.22	
Quench in oil 600 deg F. 1 hour(s) 0 minute(s)				Temper in oil 1120 deg F. 1 hour(s) 0 minute(s)									
Avg Chem Check													
				.42 .85 .19 .009 .002 .96 .20									



STATE OF TEXAS  
COUNTY OF HARRIS

Subscribed and sworn to before me this 30th day of

January 1995  
Gina M. Lawrence

Notary public in and for Harris County, Texas

My commission expires 4-1-97

**Q.A. REVIEWED**  
DATE 1-31-95

**NOTICE!**

This report must not be altered in any manner. This report is to be presented only for the exact product and quantity of product described above. Bolts described in this report must be marked on the head with either "TB" or "Texas Bolt". Nuts and Studs described in this report must be marked with a "T". These marks are registered trademarks of Texas Bolt Company, Inc., and no other markings are certified by this report. If you suspect any alteration has been made to this report, or if you would like verification of its authenticity, please contact Quality Assurance Manager, Texas Bolt Company, 1-800-237-1587.

Inspector Evaluation Approved by:  
W.E. WINDT

NDE LEVEL III INSPECTOR

I certify the above results to be correct as contained in the records of the company.

*[Signature]*  
Authorized Signature

FORM NO. 1 NUCLEAR CERTIFICATE HOLDERS DATA REPORT FOR NUCLEAR DIVISION VALVES

As Required by the Provisions of the ASME Code Section VIII

1. Manufactured by BIY, 1600 Division Road, West Warwick, RI 02893  
(Name and Address of N Certificate Holder)

2. Manufactured for Ebasco Services, Inc. - Carolina Power & Light P.O. Box 435211  
(Name and Address of Purchaser or Owner)

3. Location of Installation Shearon Harris Nuclear Power Plant Unit 1, Wake County, NC  
(Name and Address)

4. Pump or Valve Butterfly Valve Nominal Inlet Size 8 Outlet Size 8  
(inch) (inch)

(a) Model No. (b) N Certificate Holder's Series No. or Type (c) Canadian Registration No. (d) Drawing No. (e) Class (f) Mat'l Bd. No. (g) Year Built

(1)	0657-03	N-67927-2	N/A	A-902844	2	555	1985
(2)				Rev. D			
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. 8" 150# Pneumatic Operated, Class 2 Nuclear Butterfly Valve  
(Brief description of service for which equipment was designed)  
Fluid-Air Tag: 2CP-R6SR-1

6. Design Conditions 45 psi 366 °F or Valve Pressure Class N/A (1)  
(Pressure) (Temperature)

7. Cold Working Pressure 285 psi at 100°F.

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
<b>(a) Castings Plate</b>			
HT No.	Item #1		
D9185	SA 516 GR 70	Lukens Steel	Body
HT No.	Item #14		
411H4651	SA 516 GR 70	Bethlehem Steel	Thrust Cover
<b>(b) Forgings Plate</b>			
HT No.	Item #3 - Disc		
411H4651	SA 516 GR 70	Bethlehem Steel	Disc - Plate
411H4651	SA 516 GR 70	" "	Disc - Gusset
2790-26	SA 516 GR 70	Phoenix Steel	Disc - Hub

(1) For manually operated valves only

\* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8 1/2" x 11", (2) information in items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.





**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 12/21/95  
Name  
P.O. Box 1551, Raleigh, N. C. 27602-1551 Address Sheet 1 of 2
2. Plant Shearon Harris Nuclear Power Plant Unit 1  
Name  
P.O. Box 165, New Hill, N. C. 27562-0165 Address WR&A 95-ADLL1 (ESR 94-00252)  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Carolina Power and Light Company Type Code Symbol Stamp N/A  
Name  
New Hill, N.C. 27562-0165 Address Authorization No. N/A  
Expiration Date N/A
4. Identification of System Containment Building Purge System (B170)
5. (a) Applicable Construction Code ASME Sect. III 1974 Edition, Winter 1976 Addenda, \_\_\_\_\_ Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983

## 6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Butterfly Valve	BIF	N-67926-2	553	1CP-5 2CP-B5SA-1	1985	Replaced	Yes
Valve	Enertech	10365	3	Same as above	1995	Replacement	Yes
Hex Cap Screw 1/2-10 X 2 1/2"	Texas Bolt Co.	Ht# 02T595 Ht# L01767	N/A	Part# 727-412-00 PO# 476610	1988	Replacement	No
See Sheet 2							

7. Description of Work Replaced 8" Basic In Flow butterfly valve with a) 8" Permeseat Model MAK lugged wafer valve to improve reliability.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
Other  Pressure 44(+0.5, -0) psi Test Temp. Ambient °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information on items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks See attached manufacturer's data reports and certificates of conformance. Pressure test was via a type C LLRT per 10CFR50  
Applicable Manufacturer's Data Reports to be attached  
Appendix J using EST-220, completed 10/6/95, and filed with completed plant procedures.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the repair or replacement

ASME Code, Section XI.

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature] for W.A. Slover ECCS Supervisor Date 12/22, 1995  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by The Hartford Steam Boiler and Insurance Company of One State Street, Hartford, Connecticut 06102 have inspected the components described in this Owner's Report during the period 05/13/94 to 10/12/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions NC 1042  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec 27 1995





FORM NPV-1 (Back - Pg. 2 of 2)

Certificate Holder's Serial No. 10363 thru 10366

- 8. Design conditions \_\_\_\_\_ 45 \_\_\_\_\_ psi \_\_\_\_\_ 236 \_\_\_\_\_ °F or valve pressure class \_\_\_\_\_ 150 \_\_\_\_\_ (1)
- (pressure) (temperature)
- 9. Cold working pressure \_\_\_\_\_ 285 \_\_\_\_\_ psi at 100°F
- 10. Hydrostatic test \_\_\_\_\_ 450 \_\_\_\_\_ psi. Disk differential test pressure \_\_\_\_\_ 325 \_\_\_\_\_ psi
- 11. Remarks: Qty: 4, Permaseat Lugged Wafer Valves

**CERTIFICATION OF DESIGN**

Design Specification certified by Albert Macon Worth P.E. State No. Carolina Reg. no. 7277

Design Report certified by Ira Jay Silverman P.E. State California Reg. no. 23241

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N-2826 Expires 10/26/95

Date 7/27/95 Name ENERTECH Signed Ronald Hillis

(N Certificate Holder) (authorized representative)

**CERTIFICATE OF INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California and employed by DOSH-PV of State of California have inspected the pump, or valve, described in this Data Report on 7/27/95, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/27/95 Signed CHC a Commission 7359NB / Ca. 1234

(Authorized Inspector) (Nat'l. Bd. final. endorsement and state or prov. and no.)

(1) For manually operated valves only.

8845

3



*Solutions for today ... Standards of tomorrow*  
(714) 528-2301

2950 Birch Street, Brea, CA 92621  
FAX (714) 528-0128 • Telex 69-2387

### Certificate of Conformance

Date: July 27, 1995

Customer PO No. 8E1005CJ

Customer: Carolina Power & Light Co.

EnerTech Job No. 13318V

Site: Shearon Harris

File: 64309

*EnerTech certifies that the parts referenced hereon were produced in accordance with the purchase order cited above and that EnerTech has on file the required data to substantiate conformance to applicable procurement specifications.*

*EnerTech further certifies that all tests and inspections required by the customer's purchase order(s) have been performed and that all items supplied herewith conform to the specified requirements.*

<u>P.O. Item No.</u>	<u>Qty.</u>	<u>Part Number</u>	<u>Description</u>
01	4	PD97602	8" PermaSeat Lugged Water Valve, Class 150 Serial Numbers 10363-10366

**Additional Requirements:**

This certifies that the above items were manufactured in accordance with the ASME Boiler and Pressure Vessel Code, Subsection NC, Class 2, 1977 Edition, Winter 1978 Addenda, under EnerTech's Certificate of Authorization No. N-2826 which expires 10/26/96. This further certifies that these items were supplied in accordance with EnerTech's Quality Assurance Manual, Second Edition, Rev. 1 dated 4/1/95.

*Rosalie Hillis*  
 \_\_\_\_\_  
 Signature  
 Rosalie Hillis  
 \_\_\_\_\_  
 Name  
 Quality Assurance Engineer  
 \_\_\_\_\_  
 Title

*Performance of installation and associated service required by a certified EnerTech technician.*

# TEXAS BOLT COMPANY

Manufacturers of Industrial Fasteners

3233 WEST 11th ST. • P.O. BOX 1211

HOUSTON, TEXAS 77251-1211

CABLE "TEXBOLT"

PHONE 888-7111

AREA CODE 713

883613414

August 25, 1988

CAROLINA POWER & LIGHT COMPANY  
C/O ACCOUNTS PAYABLE UNIT  
P. O. BOX 1551  
RALEIGH, NORTH CAROLINA 27602

YOUR ORDER NO: 476610AS  
OUR ORDER NO: 220414

Gentlemen:

We hereby certify that the Cap Screws, on your above order were produced, inspected, and/or tested in accordance with specifications.

ASME SA193 GRADE B7

These products meet all applicable requirements.

- "ALL MATERIAL IS OF U.S. ORIGIN AND MANUFACTURE."
- "10 CFR 21 APPLIES AND 10 CFR 50 APPENDIX B APPLIES."
- "VISUAL EXAMINATION PER SA614 PARA RU."
- "ALL MATERIAL IS MANUFACTURED IN ACCORDANCE WITH TEXAS BOLT COMPANY'S CONTROL MANUAL REV.7, DATED 4-26-83, WHICH WAS QUALIFIED, SURVEYED, AND/OR AUDITED BY CAROLINA POWER & LIGHT CO. 2-9-87."
- ALL MATERIAL IN ACCORDANCE WITH ASME SECTION III, CLASS 2, 1986 EDITION NO ADDENDA.
- ALL MATERIAL IN ACCORDANCE WITH ASME SECTION II, 1986 EDITION THROUGH 1987 ADDENDA.

Very truly yours,

*Edward J. Llanhanza*  
EDWARD J. LLANHANZA  
NDE LEVEL III INSPECTOR

EJC/SC

State of Texas  
County of Harris

Subscribed and sworn to before me this 25th day of August, 1988

Blanca E. Benavides  
Notary public in and for Harris County, Texas  
My commission expires May 31, 1989

*8/25/88*

FOR CAROLINA POWER & LIGHT COMPANY

CUSTOMER P.O. NO. 476610AS

TEXAS BOLT ORDER NO. 220414  
08/23/88 SC

TEXAS BOLT COMPANY  
P.O. BOX 1211  
HOUSTON, TEXAS 77251-1211

1. ASME SA193 GRADE B7 SPECIFICATIONS

REPORT OF PHYSICAL AND CHEMICAL TESTS

ITEM	DESCRIPTION	REPORT	MATERIAL	QUANTITY	NO. PCS TESTED	Spec No	Tensile PSI	Yield Strength	Elong % 2"	RA. %	MINIMUM Hardness Tempering
1.	FINISHED HEX HEAD CAPSCREWS 3/4"-10 x 2-1/2		4140	25	2	1	140,000	126,000	23.8	61.5	1100F
<p>"ALL MATERIAL IS OF U.S. ORIGIN AND MANUFACTURE."            "10 CFR 21 APPLIES AND 10 CFR 30 APPENDIX B APPLIES."            "VISUAL EXAMINATION PER SA614 PARA RU."            "ALL MATERIAL IS MANUFACTURED IN ACCORDANCE WITH TEXAS BOLT COMPANY'S CONTROL MANUAL REV.7 DATED 4-26-83, WHICH WAS QUALIFIED, SURVEYED, AND/OR AUDITED BY CAROLINA POWER &amp; LIGHT CO. 2-9-87."            ALL MATERIAL IN ACCORDANCE WITH ASME SECTION III, CLASS 2, 1986 EDITION NO ADDENDA.            ALL MATERIAL IN ACCORDANCE WITH ASME SECTION II, 1986 EDITION THROUGH 1987 ADDENDA.</p>											

883613415

Notes: 'Spec No' column indicates specification number at top of page

ITEM NO	Visual Inspection			HEAT NUMBER	C	Mn	Si	S	P	Cr	Ni	Mo	V
	NO TESTED	ACCEPTED	REJECTED										
1.	25	25	0	02T595	.40	.82	.17	.025	.02	.77		.19	
<p>Quench in oil 1600 deg F. 1 hour(s) 0 minute(s) Temper in air 1120 deg F. 1 hour(s) 0 minute(s)</p>													

HNP  
NRM

STATE OF TEXAS  
COUNTY OF HARRIS

Inspector Evaluation Approved by:  
EDWARD J CHARANZA NDE LEVEL III INSPECTOR

Subscribed and sworn to before me this 25th day of August 1988

I certify the above results to be correct as contained in the records of the company.

*Blanca E. Benavides*  
Notary public in and for Harris County, Texas

My commission expires May 31, 1989

8/19/88

*Edward J. Charanza*  
NDE LEVEL III INSPECTOR



# TEXAS BOLT COMPANY

Manufacturers of Industrial Fasteners

3233 WEST 11th ST. • P.O. BOX 1211

H-AUSTON, TEXAS 77251-1211

CABLE: "TEXBOLT"

October 12, 1988

CAROLINA POWER & LIGHT CO.  
C/O ACCOUNTS PAYABLE UNIT  
P. O. BOX 1551  
RALEIGH, NC 27602

YOUR ORDER NO: 476610AS REPLACEMENT  
OUR ORDER NO: 22 0414

Gentlemen:

We hereby certify that the Cap Screws, on your above order were produced, inspected, and/or tested in accordance with specifications:

ASME SA193 GRADE B7 ✓

These products meet all applicable requirements.

"ALL MATERIAL IS OF U.S. ORIGIN AND MANUFACTURE." "10 CFR 21 APPLIES"  
"ALL MATERIAL IS MANUFACTURED IN ACCORDANCE WITH TEXAS BOLT  
COMPANY'S CONTROL MANUAL REV.#7, DATED 4-26-83, WHICH WAS QUALIFIED,  
SURVEYED, AND/OR AUDITED BY CAROLINA POWER & LIGHT CO. 2-9-87. ✓  
ALL MATERIAL IN ACCORDANCE WITH ASME SECTION III, CLASS 2.  
1986 EDITION NO ADDENDA.  
ALL MATERIAL IN ACCORDANCE WITH ASME SECTION II,  
1986 EDITION THROUGH 1987 ADDENDA.

Very truly yours,

*Sharon Charanza*  
SHARON CHARANZA  
NDE LEVEL III INSPECTOR

SC /ml

State of Texas  
County of Harris

Subscribed and sworn to before me this 12th day of October, 1988

Blanca E. Benavide  
Notary public in and for Harris County, Texas  
My commission expires May 31, 1989

① 11-19-88 10-20-88

FOR CAROLINA POWER & LIGHT CO.

CUSTOMER P.O. NO. 476610AS REPLACEMENT

TEXAS BOLT ORDER NO. 22 0414  
10/12/88 ml

8839, 1980  
TEXAS BOLT COMPANY  
P.O. BOX 1211  
HOUSTON, TEXAS 77251-1211

1. ASME SA193 GRADE B7 SPECIFICATIONS

REPORT OF PHYSICAL AND CHEMICAL TESTS

ITEM	DESCRIPTION	REPORT	MATERIAL	QUANTITY	NO. PCS TESTED	Spec No	Tensile PSI	Yield Strength	Elg % 2"	RA. %	Minimum Tempering
1.	FINISHED HEX HEAD CAPSCREWS 3/4"-10 x 2-1/2		4140	13	2	1	39,000	124,000	22.0	67.7	1100F

"ALL MATERIAL IS OF U.S. ORIGIN AND MANUFACTURE."  
 "ALL MATERIAL IS MANUFACTURED IN ACCORDANCE WITH TEXAS BOLT COMPANY'S CONTROL MANUAL REV. 7 DATED 4-26-83, WHICH WAS QUALIFIED, SURVEYED, AND/OR AUDITED BY CAROLINA POWER & LIGHT CO. 2-9-87."  
 ALL MATERIAL IN ACCORDANCE WITH ASME SECTION III, CLASS 2, 1986 EDITION NO ADDENDA  
 ALL MATERIAL IN ACCORDANCE WITH ASME SECTION II, 1986 EDITION THROUGH 1987 ADDENDA.

Note: 'Spec No' column indicates specification number at top of page

ITEM NO.	Visual Inspection			HEAT NUMBER	C	Mn	S	P	Cr	Ni	Mo	V
	NO. TESTED	ACCEPTED	REJECTED									
1.	13	13	0	L01767	.38	.79	.26	.015	.011	.93	.21	
Quench in oil 1600 deg F. 1 hour(s) 0 minute(s) Temper 1120 deg F. 1 hour(s) 0 minute(s)												

HNP  
 NRM  
 8/21/89  
 10/12/88

STATE OF TEXAS  
COUNTY OF HARRIS

Subscribed and sworn to before me this 12th day of October 19 88

Inspector Evaluation Approved by:  
SHARON CHARANZA NDE LEVEL III INSPECTOR

I certify the above results to be correct as contained in the records of the company.

*Blanca E. Benasid*  
 My commission expires May 31, 1989

*Sharon Charanza*  
 NDE LEVEL III INSPECTOR

MACKSON, INC. INCORPORATED  
P.O. BOX 120  
2346 SOUTHWAY DRIVE  
ROCK HILL, SOUTH CAROLINA 29730  
(803)329-6545

TO: CAROLINA POWER & LIGHT  
HARRIS NUCLEAR PLANT  
OPS RCVG BLDG SR1134  
NEW HILL, NC 27562

DATE OF SHIPMENT: August 4, 1995

SUBJECT: CERTIFICATE OF COMPLIANCE

MACKSON, INC. CERTIFIES THAT THE MATERIALS FURNISHED TO YOU ON YOUR PURCHASE ORDER 8G5389AS - WAS PROCESSED IN ACCORDANCE WITH MACKSON INCORPORATED. QSC# 554 EXPIRATION DATE MARCH 15, 1997 AND QUALITY SYSTEM MANUAL DATED OCTOBER 11, 1994 REVISION 4.

ITEM

QUANTITY

1) PART# 727-411-92 ✓ 3/4-10 X 2 HEX HD CAPSCREW SA193 GRADE B7 HEAT# 8867921 ✓	30 PCS.
--	---------

THIS MATERIAL IS IN ACCORDANCE WITH ALL THE REQUIREMENTS OF CAROLINA POWER & LIGHT PO# 8G5389AS, SITE SPEC. 055 REV.8, AND ASME SECTION III CLASS 2, 1974 EDITION WINTER 1976 ADDENDA.  
10 CFR PART 21 APPLIES.

*Thomas R. Sharp Jr.*  
QUALITY ASSURANCE MANAGER

August 4, 1995  
DATE

① 8.9.95

FOR MACKSON, INC.

# TEXAS BOLT COMPANY

3233 W. 11th St.  
Houston, TX 77008

P.O. Box 1211  
Houston, TX 77261-1211  
713/888-7111

1. ASME SA193 GRADE G7 SPECIFICATIONS

CUSTOMER P.O. NO. 26713  
\*\* AMENDED 06/06/95 WH  
TEXAS BOLT ORDER NO. 24195-4  
06/01/95 WH

## REPORT OF MECHANICAL AND CHEMICAL TESTS

ITEM	DESCRIPTION	REPORT	MATERIAL	QUANTITY	NO. PCS TESTED	SPEC NO	TENSILE PSI	YIELD STRENGTH 2% Elongation	RA. % Hardness	MINIMUM TEMPERING
1.	5/8"-11 X 2		4140	300	1	1	141,800	127,600 17.9	56.8	1100F
2.	3/4"-10 X 2		4140	114	1	1	146,800	133,900 19.0	58.5	1100F

CFR 21 & 10 CFR 50 APPENDIX B APPLIES" ANSI A45.2 & NCA 3800  
 MATERIAL IS OF U.S. ORIGIN AND MANUFACTURE."  
 FREE OF WELD REPAIR AND NO MERCURY CONTAMINATION."  
 ALL MATERIAL IS MANUFACTURED IN ACCORDANCE WITH TEXAS BOLT  
 COMPANY'S CONTROL MANUAL REV. 9, DATED 01/27/92, WHICH WAS QUALIFIED  
 REVIEWED AND/OR AUDITED BY MACKSON, INC. ON 3-29-95".  
 ALL MATERIAL IN ACCORDANCE WITH ASME SECTION II & SECTION III, CLASS 1  
 1992 EDITION THROUGH 1993 ADDENDA  
 VISUAL INSPECTION PER SA614 PARA RU AND F78B

CUSTOMER CP+L  
 PO# 865389AS ✓  
 ITEM# 1

Note: 'Spec No' column indicates specification number at top of page

ITEM NO	Visual Inspection			HEAT NUMBER	C	Mn	S	P	Cr	Ni	Mo	V
	NO TESTED	ACCEPTED	REJECTED									
1.	300	300	0	47887	.40	.87	.26	.013	.011	.87	.17	
Quench	n oil	800 deg F.	1 hour(s)	0 minute(s)	Temper in oil 1120 deg F. 1 hour(s) 0 minute(s)							
		Avg Chem Check			.43	.90	.25	.004	.86	.18		
2.	114	114	0	8867921	.42	.92	.22	.027	.012	1.02	.22	
Quench	n oil	800 deg F.	1 hour(s)	0 minute(s)	Temper in oil 1120 deg F. 1 hour(s) 0 minute(s)							
		Avg Chem Check			.40	.88	.23	.039	.028	1.00	.18	

Q.A. REVIEWED  
 DATE 6-6-95 TS



STATE OF TEXAS  
 COUNTY OF HARRIS  
 I, Connie C. S.A.  
 do hereby certify that the above is a true and correct copy of the original as shown to me this 14 day of June, 1995.  
 My commission expires 12-27-95

### NOTICE

This report must not be altered in any manner. This report is to be presented only for the exact product and quantity of product described above. Bolts described in this report must be marked on the head with either "TB" or "Texas Bolt". Nuts and Studs described in this report must be marked with a "T". These marks are registered trademarks of Texas Bolt Company, Inc., and no other markings are certified by this report. If you suspect any alteration has been made to this report, or if you would like verification of its authenticity, please contact Quality Assurance Manager, Texas Bolt Company, 1-800-237-1887.

INSPECTOR EVALUATION APPROVED BY:  
 W.E. WINDT NDE LEVEL III INSPECTOR

I certify the above results to be correct as contained in the records of the company.

W.E. Windt  
 Authorized Signature

NDE LEVEL III INSPECTOR

8-4-95

MACKSON, INCORPORATED  
 P.O. BOX 12067  
 5025 OLD YORK ROAD  
 ROCK HILL, SOUTH CAROLINA 29731  
 (803)329-6545

TO: CAROLINA POWER & LIGHT  
 HARRIS NUCLEAR PLANT  
 OPS RCVG BLDG SR1134  
 NEW HILL, NC 27562

DATE OF SHIPMENT: February 26, 1993

SUBJECT: CERTIFICATE OF COMPLIANCE

MACKSON, INC. CERTIFIES THAT THE MATERIALS FURNISHED TO YOU ON YOUR PURCHASE ORDER 7F9778AS WAS PROCESSED IN ACCORDANCE WITH MACKSON INC. QSC# 554 EXPIRATION DATE 3-15-94, AND QUALITY SYSTEM MANUAL DATED 1-7-92, REVISION 1.

ITEM

QUANTITY

1) PART# 727-411-92 3/4-10 X 2 HEX HD CAPSCREW SA193 GR. B7 HEAT# 50087	45 PCS.
--	---------

THIS MATERIAL IS IN ACCORDANCE WITH CP&L PO# 7F9778AS, SITE SPEC. 055 REV.8, AND ASME SECTION III CLASS 2 (NC), 1974 EDITION WINTER 1976 ADDENDA.

*Thomas R. Shoy Jr.*  
 \_\_\_\_\_  
 QUALITY ASSURANCE MANAGER

February 26, 1993  
 \_\_\_\_\_  
 DATE

DR. MAC. ON, INC.

CUSTOMER P.O. NO. 25101

TEXAS BOLT ORDER NO. 012451  
02/24/93 KF

TEXAS BOLT COMPANY

3233 W. 11th Street  
Houston, TX 77008

P.O. Box 1211  
Houston, TX 77251-1211  
713/866-7111

1. ASME SA193 GRADE B7 SPECIFICATIONS:

REPORT OF MECHANICAL AND CHEMICAL TESTS

ITEM	DESCRIPTION	REPORT	MATERIAL	QUANTITY	NO PCS TESTED	Spec No	Tensile PSI	Yield Strength	Elongation 2"	RA. %	MINIMUM Hardness	TEMPERING
FINISHED HEX HEAD BOLTS												
1.	3/4-10 X 2		4140	100	1	1	144,300	130,400	18.4	57.5		1100F
2.	1/2-13 X 1 1/2		4140	100	1	1	149,400	128,100	20.6	69.1		1100F

"ALL MATERIAL IS OF U.S. ORIGIN & MANUFACTURE" "10 CFR PART 21 APPLIES"  
 "VISUAL EXAMINATION PER ASME SA614 PARA RU AND F788."  
 "ALL MATERIAL IS OF U.S. ORIGIN AND MANUFACTURE. FREE OF WELD REPAIR AND NO MERCURY CONTAMINATION."  
 "ALL MATERIAL IS MANUFACTURED IN ACCORDANCE WITH TEXAS BOLT COMPANY'S CONTROL MANUAL REV. 8, DATED 2-13-89, WHICH WAS QUALIFIED, SURVEYED AND/OR AUDITED BY MACKSON, INC ON 02/21/92."  
 ALL MATERIAL IN ACCORDANCE WITH ASME SECTION III, CLASS 1, 1974 EDITION THRU WINTER 1976."

Note: 'Spec No' column indicates specification number at top of page

ITEM NO.	Visual Inspection			HEAT NUMBER	C	Mn	Si	S	P	Cr	Ni	Mo	V
	NO TESTED	ACCEPTED	REJECTED										
1.	100	100	0	50087	.41	.79	.23	.016	.008	.92		.19	
Quench	in oil	600 deg F.	1 hour(s)	0 minute(s)	Temper	in oil	1120 deg F.	1 hour(s)	0 minute(s)				
	100	100	0	50087	.41	.86	.24	.022	.011	1.00		.20	
2.	100	100	0	49052	.40	.82	.23	.015	.01	.86		.19	
Quench	in oil	600 deg F.	1 hour(s)	0 minute(s)	Temper	in oil	1120 deg F.	1 hour(s)	0 minute(s)				
	100	100	0	49052	.41	.92	.26	.024	.015	1.03		.19	

STATE OF TEXAS  
COUNTY OF HARRIS

Subscribed and sworn to before me this 25th day of February, 1993  
 Connie Cerna  
 Notary Public in and for Harris County, Texas  
 My commission expires 12-27-95



Q.A. REVIEWED  
DATE 2-24-93

NOTICE!

This report must not be altered in any manner. This report is to be presented only for the exact product and quantity of product described in this report. Bolts described in this report must be marked on the head with either "TB" or "Texas Bolt". Nut and Studs described in this report must be marked with a "T". These marks are registered trademarks of Texas Bolt Company, Inc., and no other markings are certified by this report. If you suspect any alteration has been made to this report, or if you would like verification of its authenticity, please contact Quality Assurance Manager, Texas Bolt Company, 1-800-237-1587.

Inspector Evaluation Approved by:  
J. P. ROBINSON NDE LEVEL III INSPECTOR

I certify the above results to be correct as contained in the records of the company.

*Jonathan K. ...*  
 Authorized Signature

NDE LEVEL III INSPECTOR

MACKSON, INCORPORATED  
P.O. BOX 12067  
2346 SOUTHWAY DRIVE  
ROCK HILL, SOUTH CAROLINA 29730  
(803)329-6545

TO: CAROLINA POWER & LIGHT  
HARRIS NUCLEAR PLANT  
CRDF-HO3 STATE RD 1134  
NEW HILL, NC 27562

DATE OF SHIPMENT: JUNE 7, 1995

SUBJECT: CERTIFICATE OF COMPLIANCE

MACKSON, INC. CERTIFIES THAT THE MATERIALS FURNISHED TO YOU ON YOUR PURCHASE ORDER 8F5891AS WAS PROCESSED IN ACCORDANCE WITH MACKSON INCORPORATED. QSC# 554 EXPIRATION DATE MARCH 15, 1997 AND QUALITY SYSTEM MANUAL DATED OCTOBER 11, 1994 REVISION 4.

<u>ITEM</u>	<u>QUANTITY</u>
1) PART# 727-411-92 3/4-10 X 2 HEX HD CAPSCREW SA193 GRADE B7 HEAT# 8898247 HEAT# 8867921	10 PCS. <u>14 PCS.</u> 24 PCS. TOTAL

THIS MATERIAL IS IN ACCORDANCE WITH CAROLINA POWER & LIGHT PO# 8F5891AS, SPEC. 055 REV.8, AND ASME SECTION III CLASS 2(NC), 1974 EDITION WINTER 76 ADDENDA.

10 CFR PART 21 APPLIES.

Thomas R. Shoy Jr.  
QUALITY ASSURANCE MANAGER

June 7, 1995  
DATE

FOR MACKSON, INC.

TEXAS BOLT COMPANY

3223 W. 11<sup>th</sup> Street  
Houston, TX 77002

P.O. Box 1211  
Houston, TX 77251-1211  
713/868-7111

1. /3ME SA193 GRADE 87 SPECIFICATIONS

CUSTOMER P.O. NO. 26713  
\*\* AMENDED 06/06/95 WH  
TEXAS BOLT ORDER NO. 24195-4  
06/01/95 WH

REPORT OF MECHANICAL AND CHEMICAL TESTS

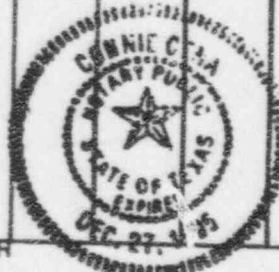
ITEM	DESCRIPTION	REPORT	MATERIAL	QUANTITY	NO. PCS TESTED	SPEC NO	TENSILE PSI	YIELD Strength.2%	ELG X 2"	RA. %	HARDNESS	MINIMUM TEMPERING
FINISHED HEX HEAD CAPSCREWS												
1.	5/8"-11 X 2		4140	300	1	1	141,800	127,600	17.9	56.8		1100F
2.	3/4"-10 X 2		4140	114	1	1	146,800	133,900	19.0	58.5		1100F
"10 CFR 21 & 10 CFR 50 APPENDIX B APPLIES" ANSI H45.2 & NCA 3800												
"ALL MATERIAL IS OF U.S. ORIGIN AND MANUFACTURE."												
"FREE OF WELD REPAIR AND NO MERCURY CONTAMINATION."												
"ALL MATERIAL IS MANUFACTURED IN ACCORDANCE WITH TEXAS BOLT COMPANY'S CONTROL MANUAL REV. 9, DATED 01/27/92, WHICH WAS QUALIFIED SURVEYED AND/OR AUDITED BY MACKSON, INC. ON 3-29-95"												
ALL MATERIAL IN ACCORDANCE WITH ASME SECTION II & SECTION III, CLASS 1												
"VISUAL INSPECTION PER SAB14 PARA RU AND F78B"												

CUSTOMER CANCEL  
PO# 8FS891AS  
ITEM# 1

Note: 'Spec No' column indicates specification number at top of page

ITEM NO	Visual Inspection			HEAT NUMBER	C	Mn	Si	S	P	Cr	Ni	Mo	V
	NO TESTED	ACCEPTED	REJECTED										
1.	300	300	0	47987	.40	.87	.26	.013	.011	.87		.17	
Quench	n oil	800 deg F.	1 hour(s)	0 minute(s)	Temper in oil 1120 deg F. 1 hour(s) 0 minute(s)								
		Avg Chem Check			.43	.90	.25	.013	.004	.86		.18	
2.	114	114	0	8867921	.42	.92	.22	.027	.012	1.02		.22	
Quench	n oil	800 deg F.	1 hour(s)	0 minute(s)	Temper in oil 1120 deg F. 1 hour(s) 0 minute(s)								
		Avg Chem Check			.40	.88	.23	.039	.026	1.00		.18	

Q.A. REVIEWED  
DATE 6-4-95 T.S.



STATE OF TEXAS  
COUNTY OF HARRIS  
Subscribed and sworn to before me this 14<sup>th</sup> day of June 1995  
[Signature]  
Notary public in and for Harris County, Texas  
My commission expires 12-27-95

NOTICE

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INSPECTOR EVALUATION APPROVED BY:  
W.E. WINDT NDE LEVEL III INSPECTOR

I certify the above results to be correct as contained in the records of the company.

[Signature]  
Authorized Signature

NDE LEVEL III INSPECTOR

FRU1 TEXAS BOLT CO

6-05-1995 9:29AM



FOR MACKSON, INC.

CUSTOMER P.O. NO. 26658

TEXAS BOLT ORDER NO. 023876  
01/30/95 GL



TEXAS BOLT COMPANY

2233 W. 11th Street  
Houston, TX 77008

P.O. Box 1211  
Houston, TX 77251-1211  
713/869-7111

1. ASME SA193 GRADE B7 SPECIFICATIONS.

REPORT OF MECHANICAL AND CHEMICAL TESTS

ITEM	DESCRIPTION	REPORT	MATERIAL	QUANTITY	NO PCS TESTED	Spec No	Tensile PSI	Yield Strength	Elong % 2"	RA % Hardness	Minimum Tempering
1	FINISHED HEX HEAD BOLTS 1. 3/4"-10 X 2		4140	35	1	1	154,000	143,200	18.9	57.4	1100F

"10 CFR 21 & 10 CFR 50 APPENDIX B APPLIES" ANSI W45.2 & NCA 3800  
 "ALL MATERIAL IS OF U.S. ORIGIN AND MANUFACTURE."  
 "FREE OF WELD REPAIR AND NO MERCURY CONTAMINATION."  
 "ALL MATERIAL IS MANUFACTURED IN ACCORDANCE WITH TEXAS BOLT COMPANY'S CONTROL MANUAL REV. 9, DATED 01/27/92, WHICH WAS QUALIFIED SURVEYED AND/OR AUDITED BY MACKSON, INC ON 2-3-94.  
 ALL MATERIAL IN ACCORDANCE WITH ASME SECTION II & SECTION III CLASS 2 1989 EDITION THROUGH 1989 ADDENDA  
 "VISUAL INSPECTION PER SAS14 PARA RU AND F788

CUSTOMER: CP&L  
 PO#: 8F5891AS  
 ITEM#: 1

Note: 'Spec No' column indicates specification number at top of page

ITEM NO.	Visual Inspection			HEAT NUMBER	C	Mn	Si	S	P	Cr	Ni	Mo	V
	NO. TESTED	ACCEPTED	REJECTED										
1	35	35	0	8898247	.43	.92	.22	.026	.013	1.02		.22	
Quench	in oil	600 deg F.	1 hour(s)	Avg Chem Check	.42	.85	.19	.009	.002	.96	1120 deg F.	.20	1 hour(s) 0 minute(s)

GINA M. LAWRENCE  
 Notary Public, State of Texas  
 My Commission Expires 04/01/97

STATE OF TEXAS  
 COUNTY OF HARRIS

Subscribed and sworn to before me this 30th day of January, 1995  
*Gina M. Lawrence*  
 Notary public in and for Harris County, Texas  
 My commission expires 4-1-97

**Q.A. REVIEWED**  
 DATE 1-31-95

NOTICE

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Inspector Evaluation Approved by:  
W.E. WINDT NDE LEVEL III INSPECTOR

I certify the above results to be correct as contained in the records of the company.

*W.E. Windt*  
 Authorized Signature

1. Manufactured by SIP, 1800 Division Road, West Warwick, RI 02893  
(Name and Address of N Certificate Holder)

2. Manufactured for Esasco Services, Inc. - Carolina Power & Light P.O. No. 5211  
(Name and Address of Purchaser or Owner)

3. Location of Installation Sheaton-Harris Nuclear Power Plant Unit 1, Wake County, NC  
(Name and Address)

4. Part of Valve Butterfly Valve Nominal Inlet Size 8 Outlet Size 8  
(Inch) (Inch)

(a) Model No. (b) N Certificate Holder's (c) Canadian (d) Drawing (e) Class (f) Nat'l (g) Year  
or Type No. No. Registration No. No. Bd. No. Built

(1)	0657-08	N-67926-2	N/A	A-902844	2	553	1985
(2)				Rev. D			
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

REV. 10-10  
 11/15/85  
*[Signature]*  
 110777-312

5. 8" 150# Pneumatic Operated, Class 2 Nuclear Butterfly Valve  
(Brief description of service for which equipment was designed)  
 Fluid-Air Tag: 2CP-B267-1 2CP-B5SA-1 2 CP B.A.M. 8-18-85

6. Design Conditions 45 psi 366 °F or Valve Pressure Class N/A (1)  
(Pressure) (Temperature)

7. Cold Working Pressure 285 psi at 100°F.

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
<b>(a) Outside Plate</b>			
HT No.	Item #1		
D9185	SA 516 GR. 70	Lukens Steel	Body
HT No.	Item #14		
411H4651	SA 516 GR. 70	Bethlehem Steel	Thrust Cover
<b>(b) Forgings Plate</b>			
HT No.	Item #3 - Disc		
411H4651	SA 516 GR. 70	Bethlehem Steel	Disc - Plate
411H4651	SA 516 GR. 70	Bethlehem Steel	Disc - Gusset
99790-26	SA 516 GR. 70	Phoenix Steel	Disc - Hub

(1) For manually operated valves only.  
 \* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in Items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.



**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 12/21/95  
Name  
P.O. Box 1551, Raleigh, N. C. 27602-1551 Address Sheet 1 of 2
2. Plant Shearon Harris Nuclear Power Plant Unit 1  
Name  
P.O. Box 165, New Hill, N. C. 27562-0165 Address WR&A 95-ADLP1 (ESR 94-00252)  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Carolina Power & Light Company Type Code Symbol Stamp N/A  
Name  
P.O. Box 165, New Hill, N.C. 27562-0165 Address Authorization No. N/A  
Expiration Date N/A
4. Identification of System Containment Building Purge System (8170)
5. (a) Applicable Construction Code ASME Sect. III 1974 Edition, W 1976 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983
6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Butterfly Valve	BIF	N-67927-1	554	1CP-6 2CP-B2SB-1	1985	Replaced	Yes
Valve	Enertech	10364	2	Same as above	1995	Replacement	Yes
Hex Cap Screw 1/2-10 X 2 1/4"	Texas Bolt Co.	Ht# 6050432	N/A	Part# 727-412-00 PO# 253820	1986	Replacement	No
Hex Cap Screw 1/2-10 X 2 1/4"	Texas Bolt Co.	Ht# 021595 Ht# L01767	N/A	Part# 727-412-00 PO# 476610	1989	Replacement	No
See sheet 2							

7. Description of Work <sup>21, 22, 23, 24, 25</sup> Replaced 8" Basic In Flow Butterfly valve with an 8" Permaseat Model MAK lugged wafer valve to improve reliability.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
Other  Pressure 44(+.5, -0) psi Test Temp. Ambient °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks See attached manufacturer's data reports/certificates of conformance. Subject installation was pressure tested with a  
Applicable Manufacturer's Data Reports to be attached  
Type C local leak rate test per 10 CFR 50 Appendix J, EST-221, completed 10/5/95 and filed with the completed plant procedures.  
The 2" capscrews, Part# 727-411-92, were installed but their respective PO#s were not recorded. The Supply Inventory System  
database was reviewed and it was determined that only 4 PO#s had been received for this part and all 4 supplied Code parts,  
therefore Code parts were used. The following PO#s would have supplied this part and their C of C is attached: PO# 253820,  
PO# 8G5389, PO# 7F9778, and PO# 8F5891.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the  
 ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp None

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature] for W.A. Sloner ECCS Supervisor Date 12/22, 19 95  
 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the  
 State or Province of North Carolina and employed by The Hartford Steam Boiler Inspection and Insurance Co. of  
One State Street, Hartford, Connecticut 06102 have inspected the components described  
 in this Owner's Report during the period 05/13/94 to 10/12/95, and state that  
 to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
 Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the  
 examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer  
 shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with  
 this inspection,

[Signature] Commissions NC 1042  
 Inspector's Signature National Board, State, Province, and Endorsements

Date Dec 27 19 95





FORM NPV-1 (Back - Pg. 2 of 2)

Certificate Holder's Serial No. 10363 thru 10366

8. Design conditions 45 psi 236 °F or valve pressure class 150 (1)

9. Cold working pressure 285 psi at 100°F

10. Hydrostatic test 450 psi. Disk differential test pressure 325 psi

11. Remarks: Qty: 4, Permaseat Lugged Wafer Valves

CERTIFICATION OF DESIGN

Design Specification certified by Albert Macon Worth P.E. State No. Carolina Reg. no. 7277
Design Report certified by Ira Jay Silverman P.E. State California Reg. no. 23241

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N-2826 Expires 10/26/95

Date 7/27/95 Name ENERTECH Signed [Signature] (IN Certificate Holder) (authorized representative)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California and employed by DOSH-PV of State of California have inspected the pump, or valve, described in this Data Report on 7/27/95 and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/27/95 Signed [Signature] Commissions 7359NB / Ca. 1234 (Authorized Inspector) (Nat'l. Bd. (incl. endorsement) and state or prov. and no.)

(1) For manually operated valves only.

88-845

3





Solutions for today ... Standards of tomorrow  
(714) 528-2301

2950 Birch Street, Brea, CA 92621  
FAX (714) 528-0128 • Telex 69-2387

## Certificate of Conformance

Date: July 27, 1995

Customer PO No. 8E1005CJ

Customer: Carolina Power & Light Co.

EnerTech Job No. 13318V

Site: Shearon Harris

File: 64309

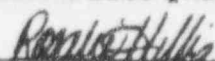
*EnerTech certifies that the parts referenced hereon were produced in accordance with the purchase order cited above and that EnerTech has on file the required data to substantiate conformance to applicable procurement specifications.*

*EnerTech further certifies that all tests and inspections required by the customer's purchase order(s) have been performed and that all items supplied herewith conform to the specified requirements.*

<u>P.O. Item No.</u>	<u>Qty.</u>	<u>Part Number</u>	<u>Description</u>
01	4	PD97602	8" PermaSeat Lugged Water Valve, Class 150 Serial Numbers 10363-10366

**Additional Requirements:**

This certifies that the above items were manufactured in accordance with the ASME Boiler and Pressure Vessel Code, Subsection NC, Class 2, 1977 Edition, Winter 1978 Addenda, under EnerTech's Certificate of Authorization No. N-2826 which expires 10/26/96. This further certifies that these items were supplied in accordance with EnerTech's Quality Assurance Manual, Second Edition, Rev. 1 dated 4/1/95.

  
\_\_\_\_\_  
Signature  
Rosalie Hillis  
\_\_\_\_\_  
Name  
Quality Assurance Engineer  
\_\_\_\_\_  
Title

*Performance of installation and associated service required by a certified EnerTech technician.*

1. POF CAROLINA POWER & LIGHT CO.

CUSTOMER P.O. No. 253820AV

TEXAS BOLT ORDER No. 187075

6/16/86 RG

# TEXAS BOLT COMPANY

P. O. BOX 1211

HOUSTON, TEXAS 77251-1211

## REPORT OF PHYSICAL AND CHEMICAL TESTS

01. 86-3063

02. 86-3060

04. 86-3064

03. 86-3061

05. 86-3059

REPORT No. 06. 86-3062

10 CFR 21 APPLIES

NCA 3800 APPLIES

ASME SA193-83 GRADE B7

"REPLACEMENT"

SPECIFICATIONS:

HNP NRM

ITEM	Description	Material	Quantity	No. Pcs. Tested	Step Black Tensile	Ultimate Tensile PSI	Yield Strength 2% Strength	Elong 2" %	RA %	Hardness	Minimum Tempering Temperature
	FINISHED HEX HEAD BOLTS										
	PART 727-411-35										
	01. 5/8" x 5	4140	50	2		139,800	124,400	19.7	59.8		1100°F.
	PART 727-411-76										
	02. 3/4" x 1	4140	20	2		138,800	123,500	19.9	59.6		1100°F.
	PART 727-411-84										
	03. 3/4" x 1-1/2	4140	20	2		143,800	128,500	20.2	60.3		1100°F.
	PART 727-411-92										
	04. 3/4" x 2	4142	20	2		135,800	120,500	18.9	58.7		1100°F.
	PART 727-412-00										
	05. 3/4" x 2-1/2	4142	40	2		140,900	125,700	19.8	60.6		1100°F.
	PART 727-412-26										
	06. 3/4" x 3-1/2	4140	40	2		138,300	123,100	18.7	59.8		1100°F.

"ALL MATERIAL IS OF U.S. ORIGIN AND MANUFACTURE." "ALL MATERIAL IN ACCORDANCE WITH ASME SA614-83."

Item No.	Visual/Dimensional Inspection			Heat Number	C	Mn	Si	S	P	Cr	Ni	Mo	V
	No. Tested	Accepted	Rejected										
01.	50	50	0	8076601 ✓	.380	.87	.25	.032	.011	.90		.22	
02. & 03.	40	40	0	N36036 ✓	.40	.84	.23	.018	.014	.89		.19	
04.	20	20	0	8088856 ✓	.410	.92	.22	.029	.012	1.01		.23	
05.	40	40	0	6050432 ✓	.420	.92	.22	.022	.008	.95		.16	
06.	40	40	0	L24856 ✓	.39	.88	.27	.015	.008	.94		.20	

"VISUAL INSPECTION PER SA614-83 PAR. RU."

"ALL MATERIAL IS FURNISHED IN ACCORDANCE WITH TEXAS BOLT COMPANY'S QUALITY PROGRAM MANUAL REV. 7, DATED 4-26-83, WHICH WAS AUDITED AND APPROVED BY CP & L CO. 3-3-86."

"ALL MATERIAL IS IN ACCORDANCE WITH ASME SECTION III, CLASS 2, 1974 EDITION INCLUDING THE WINTER 1976 ADDENDA."

INSPECTOR EVALUATION APPROVED BY:  
EDWARD J. CHARANZA, LEVEL III INSPECTOR

HEAT TREAT TIME AND TEMPERATURE

QUENCH - 1600°F. 1 HOUR 15 MIN.

TEMPER - 1120°F. 1 HOUR 15 MIN.

STATE OF TEXAS  
COUNTY OF HARRIS

Subscribed and sworn to before me this 16th day of JUNE, 19 86

*Blanca E. Benavidez*  
Notary Public in and for Harris County, Texas.  
My commission expires May 31, 1989

I certify the above results to be correct as contained in the records of the company.

15E20959E

*Edward J. Charanza*  
N.D.E. LEVEL III INSPECTOR

6-26-86  
CJL

# TEXAS BOLT COMPANY

Manufacturers of Industrial Fasteners

3233 1<sup>st</sup> ST 11th ST. • P.O. BOX 1211

HOUSTON, TEXAS 77251-1211

CABLE: "TEXBOLT"

PHONE 888-7111  
AREA CODE 713

883613414

August 25, 1988

CAROLINA POWER & LIGHT COMPANY  
C/O ACCOUNTS PAYABLE UNIT  
P. O. BOX 1551  
RALEIGH, NORTH CAROLINA 27602

YOUR ORDER NO: 476610AS  
OUR ORDER NO: 220414

Gentlemen:

We hereby certify that the Cap Screws, on your above order were produced, inspected, and/or tested in accordance with specifications:

ASME SA193 GRADE B7

These products meet all applicable requirements.

"ALL MATERIAL IS OF U.S. ORIGIN AND MANUFACTURE."  
"10 CFR 21 APPLIES AND 10 CFR 50 APPENDIX B APPLIES."  
"VISUAL EXAMINATION PER SA614 PARA RU."  
"ALL MATERIAL IS MANUFACTURED IN ACCORDANCE WITH TEXAS BOLT COMPANY'S CONTROL MANUAL REV. 7, DATED 4-26-83, WHICH WAS QUALIFIED, SURVEYED, AND/OR AUDITED BY CAROLINA POWER & LIGHT CO. 2-9-87."  
ALL MATERIAL IN ACCORDANCE WITH ASME SECTION III, CLASS 2, 1986 EDITION NO ADDENDA.  
ALL MATERIAL IN ACCORDANCE WITH ASME SECTION II, 1986 EDITION THROUGH 1987 ADDENDA.

Very truly yours,

*Edward J. Lizaranza*  
EDWARD J. LIZARANZA  
NDE LEVEL III INSPECTOR

EJC/SC

State of Texas  
County of Harris

Subscribed and sworn to before me this 25th day of August, 1988

*Blanca E. Benavide*  
Notary public in and for Harris County, Texas  
My commission expires May 31, 1989

*JE 8/28/88*

FOR CAROLINA POWER & LIGHT COMPANY

CUSTOMER P.O. NO. 476610AS

TEXAS BOLT ORDER NO. 220414  
08/25/88 SC

TEXAS BOLT COMPANY  
P.O. BOX 1211  
HOUSTON, TEXAS 77251-1211

1. ASME SA193 GRADE B7 SPECIFICATIONS

REPORT OF PHYSICAL AND CHEMICAL TESTS

ITEM	DESCRIPTION	REPORT	MATERIAL	QUANTITY	NO PCS TESTED	Spec No	Tensile PSI	Yield Strength	Elong % 2"	RA. %	MINIMUM Hardness	TEMPERATURE
1.	FINISHED HEX HEAD CAPSCREWS 3/4"-10 x 2-1/2		4140	25	2	1	140,000	126,000	23.8	61.5		1100F

"ALL MATERIAL IS OF U.S. ORIGIN AND MANUFACTURE."  
 "10 CFR 21 APPLIES AND 10 CFR 50 APPENDIX B APPLIES."  
 "VISUAL EXAMINATION PER SA614 PARA RU."  
 "ALL MATERIAL IS MANUFACTURED IN ACCORDANCE WITH TEXAS BOLT COMPANY'S CONTROL MANUAL REV. 7, DATED 4-26-83, WHICH WAS QUALIFIED, SURVEYED, AND/OR AUDITED BY CAROLINA POWER & LIGHT CO. 2-9-87."  
 ALL MATERIAL IN ACCORDANCE WITH ASME SECTION III, CLASS 2, 1986 EDITION NO ADDENDA  
 ALL MATERIAL IN ACCORDANCE WITH ASME SECTION II, 1986 EDITION THROUGH 1987 ADDENDA.

Note: 'Spec No' column indicates specification number at top of page

883613415

ITEM NO	Visual Inspection			HEAT NUMBER	C	Mn	Si	S	P	Cr	Ni	Mo	V
	NO TESTED	ACCEPTED	REJECTED										
1.	25	25	0	02T595	.40	.82	.17	.025	.02	.77		.19	
Quench in oil 1600 deg F. 1 hour(s) 0 minute(s) Temper in air 1120 deg F. 1 hour(s) 0 minute(s)													

HNP NRM

STATE OF TEXAS  
COUNTY OF HARRIS

Inspector Evaluation Approved by:  
EDWARD J CHARANZA NDE LEVEL III INSPECTOR

Subscribed and sworn to before me this 25th day of August 19 88

I certify the above results to be correct as contained in the records of the company.

Blanca E. Benavide  
Notary public in and for Harris County, Texas

My commission expires May 31, 1989

9/9/88

Edward J Charanza  
NDE LEVEL III INSPECTOR

# TEXAS BOLT COMPANY

Manufacturers of Industrial Fasteners

3233 WEST 11th ST. • P.O. BOX 1211

H. JUSTON, TEXAS 77251-1211

CABLE: "TEXBOLT"

PHONE: 869-7111  
AREA CODE 713

October 12, 1988

CAROLINA POWER & LIGHT CO.  
C/O ACCOUNTS PAYABLE UNIT  
P. O. BOX 1551  
RALEIGH, NC 27602

YOUR ORDER NO: 476610AS REPLACEMENT  
OUR ORDER NO: 22 0414

Gentlemen:

We hereby certify that the Cap Screws, on your above order were produced, inspected, and/or tested in accordance with specifications:

ASME SA193 GRADE B7 ✓

These products meet all applicable requirements.

"ALL MATERIAL IS OF U.S. ORIGIN AND MANUFACTURE." "10 CFR 21 APPLIES"  
"ALL MATERIAL IS MANUFACTURED IN ACCORDANCE WITH TEXAS BOLT COMPANY'S CONTROL MANUAL REV. 7, DATED 4-26-83, WHICH WAS QUALIFIED, SURVEYED, AND/OR AUDITED BY CAROLINA POWER & LIGHT CO. 2-9-87. ✓  
ALL MATERIAL IN ACCORDANCE WITH ASME SECTION III, CLASS 2. 1986 EDITION NO ADDENDA.  
ALL MATERIAL IN ACCORDANCE WITH ASME SECTION II, 1986 EDITION THROUGH 1987 ADDENDA.

Very truly yours,

*Sharon Charanza*  
SHARON CHARANZA  
NDE LEVEL III INSPECTOR

SC /ml

State of Texas  
County of Harris

Subscribed and sworn to before me this 12th day of October, 1988

*Blanca E. Benavide*  
Notary public in and for Harris County, Texas  
My commission expires May 31, 1989

10-19-88 UB 10-20-88

FOR C. CAROLINA POWER & LIGHT CO.

CUSTOMER P.O. NO. 476610AS REPLACEMENT

TEXAS BOLT ORDER NO. 22 0414

10/12/88 ml

88391,980  
TEXAS BOLT COMPANY

P.O. BOX 1211

HOUSTON, TEXAS 77251-1211

1. ASME SA193 GRADE D7 SPECIFICATIONS

REPORT OF PHYSICAL AND CHEMICAL TESTS

ITEM	DESCRIPTION	REPORT	MATERIAL	QUANTITY	NO. PCS TESTED	Spec No	Tensile PSI	Yield Strength	Elg % 2"	RA %	Hardness	Minimum Tempering
1.	FINISHED HEX HEAD CAPSCREWS 3/4"-10 x 2-1/2		4140	13	2	1	39,000	124,000	22.0	67.7		1100F
<p>"ALL MATERIAL IS OF U.S. ORIGIN AND MANUFACTURE." "10 CFR 21 APPLIES"</p> <p>"ALL MATERIAL IS MANUFACTURED IN ACCORDANCE WITH TEXAS BOLT COMPANY'S CONTROL MANUAL REV. 7 DATED 4-26-83, WHICH WAS QUALIFIED, SURVEYED, AND/OR AUDITED BY CAROLINA POWER &amp; LIGHT CO. 2-9-87."</p> <p>ALL MATERIAL IN ACCORDANCE WITH ASME SECTION III, CLASS 2.</p> <p>1986 EDITION NO ADDENDA</p> <p>ALL MATERIAL IN ACCORDANCE WITH ASME SECTION II, 1986 EDITION THROUGH 1987 ADDENDA.</p>												

Note: 'Spec No' column indicates specification number at top of page

ITEM NO.	Visual Inspection			HEAT NUMBER	C	Mn	S	S	P	Cr	Ni	Mo	V
	NO. TESTED	ACCEPTED	REJECTED										
1.	13	13	0	L01767	.38	.79	.26	.015	.011	.93		.21	
<p>Quench in oil 1600 deg F. 1 hour(s) 0 minute(s) Temper 1120 deg F. 1 hour(s) 0 minute(s)</p>													

HNP NRM  
10-12-88

STATE OF TEXAS  
COUNTY OF HARRIS

Subscribed and sworn to before me this 12th day of October 19 88

*Blanca E. Benavidez*  
Notary public in and for Harris County, Texas

My commission expires May 31, 1989

Inspector Evaluation Approved by:  
SHARON CHARANZA NDE LEVEL III INSPECTOR

I certify the above results to be correct as contained in the records of the company.

*Sharon Charanza*  
NDE LEVEL III INSPECTOR

MACKSON, INC. INCORPORATED  
P.O. BOX 1200  
2346 SOUTHWAY DRIVE  
ROCK HILL, SOUTH CAROLINA 29730  
(803)329-6545

TO: CAROLINA POWER & LIGHT  
HARRIS NUCLEAR PLANT  
OPS RCVG BLDG SR1134  
NEW HILL, NC 27562

DATE OF SHIPMENT: August 4, 1995

SUBJECT: CERTIFICATE OF COMPLIANCE

MACKSON, INC. CERTIFIES THAT THE MATERIALS FURNISHED TO YOU ON YOUR PURCHASE ORDER 8G5389AS - WAS PROCESSED IN ACCORDANCE WITH MACKSON INCORPORATED. QSC# 554 EXPIRATION DATE MARCH 15, 1997 AND QUALITY SYSTEM MANUAL DATED OCTOBER 11, 1994 REVISION 4.

<u>ITEM</u>	<u>QUANTITY</u>
1) PART# 727-411-92 ✓ 3/4-10 X 2 HEX HD CAPSCREW SA193 GRADE B7 HEAT# 8867921 ✓	30 PCS.

THIS MATERIAL IS IN ACCORDANCE WITH ALL THE REQUIREMENTS OF CAROLINA POWER & LIGHT PO# 8G5389AS, SITE SPEC. 055 REV.8, AND ASME SECTION III CLASS 2, 1974 EDITION WINTER 1976 ADDENDA.  
10 CFR PART 21 APPLIES.

Thomas R. Sharp  
QUALITY ASSURANCE MANAGER

August 4, 1995  
DATE

AP 8.9.95

FOR MAC, INC.

TEXAS BOLT COMPANY

3223 W. 11th St.  
Houston, TX 77006

1. ASME SA193 GRADE B7 SPECIFICATIONS

CUSTOMER P.O. NO. 26713  
\*\* AMENDED 06/06/95 WH

P.O. Box 1211  
Houston, TX 77261-1211  
713/896-7111

TEXAS BOLT ORDER NO. 24195-4  
06/01/95 WH

REPORT OF MECHANICAL AND CHEMICAL TESTS

ITEM	DESCRIPTION	REPORT	MATERIAL	QUANTITY	NO. PCS TESTED	SPEC NO	Tensile PSI	Yield Strength, %	Elongation 2"	RA, %	MINIMUM Hardness	MINIMUM Tempering
FINISHED HEX HEAD CAPSCREWS												
1.	5/8"-11 X 2		4140	300	1	1	141,800	127,600	17.9	56.8		1100F
2.	3/4"-10 X 2		4140	114	1	1	146,800	133,900	19.0	58.5		1100F

"10 CFR 21 & 10 CFR 50 APPENDIX B APPLIES" ANSI 445.2 & NCA 3800  
 "ALL MATERIAL IS OF U.S. ORIGIN AND MANUFACTURE."  
 "FREE OF WELD REPAIR AND NO MERCURY CONTAMINATION."  
 "ALL MATERIAL IS MANUFACTURED IN ACCORDANCE WITH TEXAS BOLT COMPANY'S CONTROL MANUAL REV. 9, DATED 01/27/92, WHICH WAS QUALIFIED SURVEYED AND/OR AUDITED BY MACKSON, INC. ON 3-29-95".  
 "ALL MATERIAL IN ACCORDANCE WITH ASME SECTION II & SECTION III, CLASS 1 1992 EDITION THROUGH 1993 ADDENDA"  
 "VISUAL INSPECTION PER SA814 PARA RU AND F788"

CUSTOMER CP# PO# 86538945 ITEM# 1

Note: 'Spec No' column indicates specification number at top of page

ITEM NO	Visual Inspection			HEAT NUMBER	C	Mn	Si	S	P	Cr	Ni	Mo	V
	NO TESTED	ACCEPTED	REJECTED										
1.	300	300	0	47987	.40	.87	.28	.013	.011	.87		.17	
Quench	n oil	600 deg F.	hour(s)	0 minute(s)	Temper in oil 1120 deg F. 1 hour(s) 0 minute(s)								
		Avg Chem Check			.43	.90	.25	.013	.004	.86		.18	
2.	114	114	0	8867921	.42	.92	.22	.027	.012	1.02		.22	
Quench	n oil	600 deg F.	hour(s)	0 minute(s)	Temper in oil 1120 deg F. 1 hour(s) 0 minute(s)								
		Avg Chem Check			.40	.88	.23	.039	.026	1.00		.18	

Q.A. REVIEWED  
DATE 6-4-95 T.S.



STATE OF TEXAS  
COUNTY OF HARRIS  
Subscribed and sworn to before me this 6th day of June 1995  
[Signature]  
Notary Public in and for Harris County, Texas  
My commission expires 12-27-95

INSPECTOR EVALUATION Approved by:  
W.E. WINDT NDE LEVEL III INSPECTOR

I certify the above results to be correct as contained in the records of the company.  
[Signature]  
Authorized Signature

NDE LEVEL III INSPECTOR

FROM TEXAS 6-4-95 4:29AM

8445

NOTICE!

This report must not be altered in any manner. This report is to be presented only for the exact product and quantity of product described above. Bolts described in this report must be marked on the head with either "TB" or "Texas Bolt". Nuts and Studs described in this report must be marked with a "T". These marks are registered trademarks of Texas Bolt Company, Inc., and no other markings are certified by this report. If you suspect any alteration has been made to this report, or if you would like verification of its authenticity, please contact Quality Assurance Manager, Texas Bolt Company, 1-800-237-1587.



MACKSON, INCORPORATED  
 P.O. BOX 12067  
 5025 OLD YORK ROAD  
 ROCK HILL, SOUTH CAROLINA 29731  
 (803)329-6545

TO: CAROLINA POWER & LIGHT      DATE OF SHIPMENT: February 26, 1993  
 HARRIS NUCLEAR PLANT  
 OPS RCVG BLDG SR1134  
 NEW HILL, NC 27562

SUBJECT: CERTIFICATE OF COMPLIANCE

MACKSON, INC. CERTIFIES THAT THE MATERIALS FURNISHED TO YOU ON YOUR PURCHASE ORDER 7F9778AS WAS PROCESSED IN ACCORDANCE WITH MACKSON INC. QSC# 554 EXPIRATION DATE 3-15-94, AND QUALITY SYSTEM MANUAL DATED 1-7-92, REVISION 1.

<u>ITEM</u>	<u>QUANTITY</u>
1) PART# 727-411-92 3/4-10 X 2 HEX HD CAPSCREW SA193 GR. B7 HEAT# 50087	45 PCS.

THIS MATERIAL IS IN ACCORDANCE WITH CP&L PO# 7F9778AS, SITE SPEC. 055 REV.8, AND ASME SECTION III CLASS 2 (NC), 1974 EDITION WINTER 1976 ADDENDA.

*Thomas R. Shoy Jr.*  
 \_\_\_\_\_  
 QUALITY ASSURANCE MANAGER

February 26, 1993  
 DATE

DR. MACKSON, INC.

CUSTOMER P.O. NO. 25101

TEXAS BOLT ORDER NO. 012451  
02/24/93 KF

**TEXAS BOLT COMPANY**  
3233 W. 11th Street  
Houston, TX 77008  
P.O. Box 1211  
Houston, TX 77261-1211  
713/869-7111

SPECIFICATIONS:  
1. ASME SA193 GRADE B7

**REPORT OF MECHANICAL AND CHEMICAL TESTS**

ITEM	DESCRIPTION	REPORT	MATERIAL	QUANTITY	NO. PCS TESTED	Spec No	Tensile PSI	Yield Strength.2%	Elg X 2"	RA. %	MINIMUM Hardness	TEMPERING
FINISHED HEX HEAD BOLTS												
1.	3/4-10 X 2		4140	100	1	1	144,300	130,400	18.4	57.5		1100F
2.	1/2-13 X 1 1/2		4140	100	1	1	149,400	128,100	20.6	69.1		1100F

"ALL MATERIAL IS OF U.S. ORIGIN & MANUFACTURE" "10 CFR PART 21 APPLIES"  
 "VISUAL EXAMINATION PER ASME SA614 PARA RU AND F783."  
 "ALL MATERIAL IS OF U.S. ORIGIN AND MANUFACTURE. FREE OF WELD REPAIR AND NO MERCURY CONTAMINATION."  
 "ALL MATERIAL IS MANUFACTURED IN ACCORDANCE WITH TEXAS BOLT COMPANY'S CONTROL MANUAL REV.8, DATED 2-13-89, WHICH WAS QUALIFIED, SURVEYED AND/OR AUDITED BY MACKSON, INC ON 02/21/92."  
 ALL MATERIAL IN ACCORDANCE WITH ASME SECTION III, CLASS 1, 1974 EDITION THRU WINTER 1976."

Note: 'Spec No' column indicates specification number at top of page

ITEM NO.	Visual Inspection			HEAT NUMBER	C	Mn	Si	S	P	Cr	Ni	Mo	V
	NO TESTED	ACCEPTED	REJECTED										
1.	100	100	0	50087	.41	.79	.23	.016	.008	.92		.19	
Quench	in oil	600 deg F.	1 hour(s)	0 minute(s)	Temper	in oil	1120 deg F.	1 hour(s)	0 minute(s)				
	100	100	0	50087	.41	.86	.24	.022	.011	1.00		.20	
2.	100	100	0	49052	.40	.82	.23	.015	.01	.86		.19	
Quench	in oil	600 deg F.	1 hour(s)	0 minute(s)	Temper	in oil	1120 deg F.	1 hour(s)	0 minute(s)				
	100	100	0	49052	.41	.92	.26	.024	.015	1.03		.19	

STATE OF TEXAS  
COUNTY OF HARRIS

Subscribed and sworn to before me this 25th day of February, 1993  
*Connie Cera*  
 Notary Public in and for Harris County, Texas  
 My commission expires 12-27-95



Q.A. REVIEWED  
DATE 2-24-93

**NOTICE!**

This report must not be altered in any manner. This report is to be presented only for the exact product and quantity of product described in this report. Bolts described in this report must be marked on the head with either "TB" or "Texas Bolt". Nutt and Studs described in this report must be marked with a "T". These marks are registered trademarks of Texas Bolt Company, Inc. and no other markings are certified by this report. If you suspect any alteration has been made to this report, or if you would like verification of its authenticity, please contact Quality Assurance Manager, Texas Bolt Company, 1-800-237-1587.

Inspector Evaluation Approved by:  
J. P. ROBINSON NDE LEVEL III INSPECTOR

I certify the above results to be correct as contained in the records of the company.  
*Jonathan Robinson*  
 Authorized Signature

NDE LEVEL III INSPECTOR

HNP NRM

MACKSON, INCORPORATED  
P.O. BOX 12067  
2346 SOUTHWAY DRIVE  
ROCK HILL, SOUTH CAROLINA 29730  
(803)329-6545

TO: CAROLINA POWER & LIGHT  
HARRIS NUCLEAR PLANT  
CRDF-H03 STATE RD 1134  
NEW HILL, NC 27562

DATE OF SHIPMENT: JUNE 7, 1995

SUBJECT: CERTIFICATE OF COMPLIANCE

MACKSON, INC. CERTIFIES THAT THE MATERIALS FURNISHED TO YOU ON YOUR PURCHASE ORDER 8F5891AS WAS PROCESSED IN ACCORDANCE WITH MACKSON INCORPORATED. QSC# 554 EXPIRATION DATE MARCH 15, 1997 AND QUALITY SYSTEM MANUAL DATED OCTOBER 11, 1994 REVISION 4.

<u>ITEM</u>	<u>QUANTITY</u>
1) PART# 727-411-92	
3/4-10 X 2 HEX HD CAPSCREW	
SA193 GRADE B7	
HEAT# 8898247	10 PCS.
HEAT# 8867921	14 PCS.
	24 PCS. TOTAL

THIS MATERIAL IS IN ACCORDANCE WITH CAROLINA POWER & LIGHT PO# 8F5891AS, SPEC. 055 REV.8, AND ASME SECTION III CLASS 2(NC), 1974 EDITION WINTER 76 ADDENDA.

10 CFR PART 21 APPLIES.

Thomas R. Shoyk  
QUALITY ASSURANCE MANAGER

June 7, 1995  
DATE

FOR MACKSON, INC.



**TEXAS BOLT COMPANY**

3233 W. 11th Street  
Houston, TX 77008

P.O. Box 1211  
Houston, TX 77251-1211  
713/869-7111

CUSTOMER P.O. NO. 26658

SPECIFICATIONS  
1. ASME SA193 GRADE B7

TEXAS BOLT ORDER NO. 023876  
01/30/95 GL

**REPORT OF MECHANICAL AND CHEMICAL TESTS**

ITEM	DESCRIPTION	REPORT	MATERIAL	QUANTITY	NO PCS TESTED	Spec No	Tensile PSI	Yield Strength	Elg % 2"	RA %	Hardness	Minimum Tempering
1.	FINISHED HEX HEAD BOLTS 3/4"-10 X 2		4140	35	1	1	154,000	143,200	18.9	57.4		1100F
<p>"10 CFR 21 &amp; 10 CFR 50 APPENDIX B APPLIES" ANSI W45.2 &amp; NCA 3800            "ALL MATERIAL IS OF U.S. ORIGIN AND MANUFACTURE."            "FREE OF WELD REPAIR AND NO MERCURY CONTAMINATION."            "ALL MATERIAL IS MANUFACTURED IN ACCORDANCE WITH TEXAS BOLT COMPANY'S CONTROL MANUAL REV. B, DATED 01/27/92, WHICH WAS QUALIFIED SURVEYED AND/OR AUDITED BY MACKSON, INC ON 2-8-94."            ALL MATERIAL IN ACCORDANCE WITH ASME SECTION II &amp; SECTION III CLASS 2 1989 EDITION THROUGH 1989 ADDENDA            "VISUAL INSPECTION PER SA614 PARA RU AND F78B"</p>												
											CUSTOMER Cpr PO# 8F5891AS ITEM# 1	
											Note: 'Spec No' column indicates specification number at top of page	

ITEM NO	Visual Inspection			HEAT NUMBER	C	Mn	Si	S	P	C	Ni	Mo	V
	NO TESTED	ACCEPTED	REJECTED										
1.	35	35	0	8898247	.43	.92	.22	.026	.013	1.02		.22	
Quench	n oil	1600 deg F.	1 hour(s)	Avg Chem Check	0 minute(s)	Temper	in oil	1120 deg F.	1 hour(s)	0 minute(s)		.20	

**GINA M. LAWRENCE**  
 Notary Public, State of Texas  
 My Commission Expires  
 04/01/97

STATE OF TEXAS  
 COUNTY OF HARRIS  
 Subscribed and sworn to before me this 30<sup>th</sup> day of January, 1995  
*Gina M. Lawrence*  
 Notary public in and for Harris County, Texas  
 My commission expires 4-1-97

**Q.A. REVIEWED**  
 DATE 1-31-95 T.D.

**NOTICE!**

This report must not be altered in any manner. This report is to be presented only for the exact product and quantity of product described above. Bolts described in this report must be marked on the head with either "TB" or "Texas Bolt". Nuts and Studs described in this report must be marked with a "T". These marks are registered trademarks of Texas Bolt Company, Inc., and no other markings are certified by this report. If you suspect any alteration has been made to this report, or if you would like verification of its authenticity, please contact Quality Assurance Manager, Texas Bolt Company, 1-800-237-1587.

Inspector Evaluation Approved by:  
**W.E. WINDT** NDE LEVEL III INSPECTOR

I certify the above results to be correct as contained in the records of the company.  
*[Signature]*  
 Authorized Signature

FOR MACKSON, INC.



**TEXAS BOLT COMPANY**

3233 W. 11th Street  
Houston, TX 77008

P.O. Box 1211  
Houston, TX 77251-1211  
713/866-7111

1. / 3ME SA193 GRADE 87 SPECIFICATIONS

CUSTOMER P.O. NO. 26713  
REVISED 06/06/95 WH  
TEXAS BOLT ORDER NO. 24195-4  
06/01/95 WH

**REPORT OF MECHANICAL AND CHEMICAL TESTS**

ITEM	DESCRIPTION	REPORT	MATERIAL	QUANTITY	NO. PCS TESTED	SPEC NO	TENSILE PSI	YIELD STRENGTH 2% Elongation	RA. %	HARDNESS	MINIMUM TEMPERING
FINISHED HEX HEAD CAPSCREWS											
1.	5/8"-11 X 2		4140	300	1	1	141,800	127,600	17.9	56.6	1100F
2.	3/4"-10 X 2		4140	114	1	1	146,800	133,900	19.0	58.5	1100F

"10 CFR 21 & 10 CFR 50 APPENDIX B APPLIES" ANSI A45.2 & NCA 3800  
 "ALL MATERIAL IS OF U.S. ORIGIN AND MANUFACTURE."  
 "FREE OF WELD REPAIR AND NO MERCURY CONTAMINATION."  
 "ALL MATERIAL IS MANUFACTURED IN ACCORDANCE WITH TEXAS BOLT COMPANY'S CONTROL MANUAL REV. 9, DATED 01/27/92, WHICH WAS QUALIFIED SURVEYED AND/OR AUDITED BY MACKSON, INC. ON 3-29-95".  
 ALL MATERIAL IN ACCORDANCE WITH ASME SECTION II & SECTION III, CLASS 1 1992 EDITION THROUGH 1993 ADDENDA  
 "VISUAL INSPECTION PER SA614 PARA RU AND F789"

CUSTOMER CAPL  
PO# 8F5891A5  
ITEM# 1

Note: 'Spec No' column indicates specification number at top of page

ITEM NO	Visual Inspection			HEAT NUMBER	C	Mn	Si	S	P	Cu	Ni	Mo	V
	NO TESTED	ACCEPTED	REJECTED										
1.	300	300	0	47987	.40	.87	.26	.013	.011	.87	.17		
Quench	n oil	600 deg F.	hour(s)		0	minute(s)	Temper	in oil	1120	deg F.	hour(s)	0	minute(s)
			Avg Chem Check		.43	.90	.25	.013	.004	.86	.18		
2.	114	114	0	8867921	.42	.92	.22	.027	.012	1.02	.22		
Quench	n oil	600 deg F.	hour(s)		0	minute(s)	Temper	in oil	1120	deg F.	hour(s)	0	minute(s)
			Avg Chem Check		.40	.88	.23	.039	.026	1.00	.18		

Q.A. REVIEWED  
DATE 6-6-95 TS



STATE OF TEXAS  
COUNTY OF HARRIS  
Subscribed and sworn to before me this 14 day of June, 1995  
*Connie C. ...*  
Notary Public in and for Harris County, Texas  
My commission expires 12-27-95

Inspector Evaluation Approved by:  
W.E. WINDT NDE LEVEL III INSPECTOR

I certify the above results to be correct as contained in the records of the company.  
*W.E. Windt*  
Authorized Signature

NDE LEVEL III INSPECTOR

**NOTICE!**

This report must not be altered in any manner. This report is to be presented only for the exact product and quantity of product described above. Bolts described in this report must be marked on the head with either "TB" or "Texas Bolt". Nuts and Studs described in this report must be marked with a "T". These marks are registered trademarks of Texas Bolt Company, Inc. and no other markings are certified by this report. If you suspect any alteration has been made to this report, or if you would like verification of its authenticity, please contact Quality Assurance Manager, Texas Bolt Company, 1-800-237-1887.

FROM TEXAS BOLT CO 6-16-1995 9:29AM

**CERTIFICATE HOLDERS DATA REPORT FOR NUCLEAR BUTTERFLY VALVES**  
 As Required by the Provisions of the ASME Code Section II, DWG 11

1. Manufactured by BIF, 1000 Division Road, West Warwick, RI 02893  
(Name and Address of N Certificate Holder)  
 2. Manufactured for Ebasco Services, Inc. - Carolina Power & Light, P.O. NY 435211  
(Name and Address of Purchaser or Owner)  
 3. Location of installation Shearon Harris Nuclear Power Plant Unit 1, Wake County, NC  
(Name and Address)

4. Pump or Valve Butterfly Valve Nominal Inlet Size 8 Outlet Size 8  
(inch) (inch)

(a) Model No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
(1) 0657-08	N-67927-1	N/A	A-902844	2	554	1985
(2)			Rev. D			
(3)						
(4)						
(5)						
(6)						
(7)						
(8)						
(9)						
(10)						

5. 8" 150# Pneumatic Operated, Class 2 Nuclear Butterfly Valve  
(Brief description of service for which equipment was designed)  
Fluid-Air Tag: 2CP-B2SB-1

6. Design Conditions 45 psi 366 °F or Valve Pressure Class N/A (1)  
(Pressure) (Temperature)

7. Cold Working Pressure 285 psi at 100°F.

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
<b>(a) Castings Plate</b>			
HT No.	Item #1		
D9185	SA 516 GR 70	Lukens Steel	Body
HT No.	Item #14		
411H4651	SA 516 GR 70	Bethlehem Steel	Thrust Cover
<b>(b) Forgings Plate</b>			
HT No.	Item #3 - Disc		
411H4651	SA 516 GR 70	Bethlehem Steel	Disc - Plate
411H4651	SA 516 GR 70	" "	Disc - Gusset
99790-26	SA 516 GR 70	Phoenix Steel	Disc - Hub

(1) For manually operated valves only.

\* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.



**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 12/21/95  
Name  
P.O. Box 1551, Raleigh, N. C. 27602-1551 Address Sheet 1 of 2
2. Plant Shearon Harris Nuclear Power Plant Unit 1  
Name  
P.O. Box 165, New Hill, N. C. 27562-0165 Address WR&A 95-ADLQ1 (ESR 94-00252)  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Carolina Power & Light Company Type Code Symbol Stamp N/A  
Name  
P.O. Box 165, New Hill, N. C. 27562-0165 Address Authorization No. N/A  
Expiration Date N/A
4. Identification of System Containment Building Purge System (8170)
5. (a) Applicable Construction Code ASME Sect. III 1974 Edition, W 1976 Addenda, N/A Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda S 1983

## 6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Butterfly Valve	BIF	N-67926-1	552	1CP-9 2CP-B1SA-1	1985	Replaced	Yes
Valve	EnerTech	10363	1	Same as above	1995	Replacement	Yes
Hex Cap Screw 1/2-10 X 2"	Texas Bolt Co.	Ht# 50087	N/A	727-411-92 PO# 7F9778	1993?	Replacement	No
Hex Cap Screw 1/2-10 X 2 1/2"	Texas Bolt Co.	Ht# 02T595 Ht# L01767	N/A	Part#727-412-00 PO# 476610	1989	Replacement	No
See sheet 2							

7. Description of Work <sup>12/21/95</sup> Replaced 8" Basic In Flow Butterfly valve with an 8" Perma-seal Model MAK lugged wafer valve to improve reliability.

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
Other  Pressure 44(+0.5, -0) psi; Test Temp. Ambient °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.



FORM HIS-2 (Back)

9. Remarks See attached manufacturer's data reports. Subject installation was pressure tested with a type C local leak rate test per Applicable Manufacturer's Data Reports to be attached  
10 CFR 50 Appendix J, EST-221, completed 10/5/95 and filed with the completed plant procedures.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the repair or replacement ASME Code, Section XI.

Type Code Symbol Stamp None

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature] LA Stover ECCS Supervisor Date 12/22, 19 95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of North Carolina and employed by The Hartford Steam Boiler Inspection and Insurance Company of One State Street, Hartford, Connecticut 06102 have inspected the components described in this Owner's Report during the period 05/13/94 to 10/12/95, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection,

[Signature] B Dayton Commissions NC 1042  
Inspector's Signature National Board, State, Province, and Endorsements

Date 12-27-95 19 95





FORM NPV-1 (Back - Pg. 2 of 2)

Certificate Holder's Serial No. 10363 thru 10366

- 8. Design conditions \_\_\_\_\_ 45 \_\_\_\_\_ psi \_\_\_\_\_ 236 \_\_\_\_\_ °F or valve pressure class \_\_\_\_\_ 150 \_\_\_\_\_ (1)
- (pressure) (temperature)
- 9. Cold working pressure \_\_\_\_\_ 285 \_\_\_\_\_ psi at 100°F
- 10. Hydrostatic test \_\_\_\_\_ 450 \_\_\_\_\_ psi. Disk differential test pressure \_\_\_\_\_ 325 \_\_\_\_\_ psi
- 11. Remarks: Qty: 4, Permasat Lugged Wafer Valves

**CERTIFICATION OF DESIGN**

Design Specification certified by Albert Macon Worth P.E. State No. Carolina Reg. no. 7277  
 Design Report certified by Ira Jay Silverman P.E. State California Reg. no. 23241

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N-2826 Expires 10/26/96

Date 7/27/95 Name ENERTECH Signed *Ronald Hillis*  
(N Certificate Holder) (Authorized representative)

**CERTIFICATE OF INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California and employed by DOSH-PV of State of California have inspected the pump, or valve, described in this Data Report on 7/27/95, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

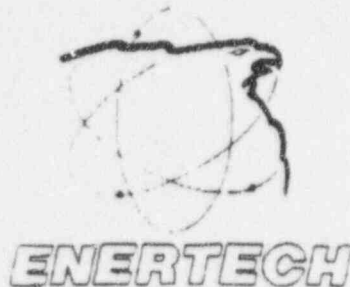
By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 7/27/95 Signed *CHC a* Commission 7859 NB / Ca. 1234  
(Authorized Inspector) (Nat'l. Bd. (incl. endorsement) and state or prov. and no.)

(1) For manually operated valves only.

888-845

3



*Solutions for today ... Standards of tomorrow*  
(714) 528-2301

2950 Birch Street, Brea, CA 92621  
FAX (714) 528-0128 • Telex 69 2387

### Certificate of Conformance

**Date:** July 27, 1995

**Customer PO No.:** 8E1005CJ

**Customer:** Carolina Power & Light Co.

**EnerTech Job No.:** 13318V

**Site:** Shearon Harris

**File:** 64309

*EnerTech certifies that the parts referenced hereon were produced in accordance with the purchase order cited above and that EnerTech has on file the required data to substantiate conformance to applicable procurement specifications.*

*EnerTech further certifies that all tests and inspections required by the customer's purchase order(s) have been performed and that all items supplied herewith conform to the specified requirements.*

<u>P.O. Item No.</u>	<u>Qty.</u>	<u>Part Number</u>	<u>Description</u>
01	4	PD97602	8" PermaSeat Lugged Water Valve, Class 150 Serial Numbers 10363-10366

**Additional Requirements:**

This certifies that the above items were manufactured in accordance with the ASME Boiler and Pressure Vessel Code, Subsection NC, Class 2, 1977 Edition, Winter 1978 Addenda, under EnerTech's Certificate of Authorization No. N-2826 which expires 10/26/96. This further certifies that these items were supplied in accordance with EnerTech's Quality Assurance Manual, Second Edition, Rev. 1 dated 4/1/85.

*Rosalie Hillis*  
 \_\_\_\_\_  
 Signature  
 Rosalie Hillis  
 \_\_\_\_\_  
 Name  
 Quality Assurance Engineer  
 \_\_\_\_\_  
 Title

*Performance of installation and associated service required by a certified EnerTech technician.*

MACKSON, INCORPORATED  
 P.O. BOX 12067  
 5025 OLD YORK ROAD  
 ROCK HILL, SOUTH CAROLINA 29731  
 (803)329-6545

TO: CAROLINA POWER & LIGHT  
 HARRIS NUCLEAR PLANT  
 OPS RCVG BLDG SR1134  
 NEW HILL, NC 27562

DATE OF SHIPMENT: February 26, 1993

SUBJECT: CERTIFICATE OF COMPLIANCE

MACKSON, INC. CERTIFIES THAT THE MATERIALS FURNISHED TO YOU ON YOUR PURCHASE ORDER 7F9778AS WAS PROCESSED IN ACCORDANCE WITH MACKSON INC. QSC# 554 EXPIRATION DATE 3-15-94, AND QUALITY SYSTEM MANUAL DATED 1-7-92, REVISION 1.

<u>ITEM</u>	<u>QUANTITY</u>
1) PART# 727-411-92 3/4-10 X 2 HEX HD CAPSCREW SA193 GR. B7 HEAT# 50087	45 PCS.

THIS MATERIAL IS IN ACCORDANCE WITH CP&L PO# 7F9778AS, SITE SPEC. 055 REV.8, AND ASME SECTION III CLASS 2 (NC), 1974 EDITION WINTER 1976 ADDENDA.

*Thomas R. Stoy Jr.*

QUALITY ASSURANCE MANAGER

February 26, 1993  
 DATE

DR. H. SON, INC.

USTOMER P.O. NO. 25101

TEXAS BOLT ORDER NO. 012451  
02/24/93 KF

TEXAS BOLT COMPANY

3233 W. ...  
Houston, TX 77008

P.O. Box 1231  
Houston, TX 77261-1211  
713/869-7111

1. ASME SA193 GRADE B7

REPORT OF MECHANICAL AND CHEMICAL TESTS

ITEM	DESCRIPTION	REPORT	MATERIAL	QUANTITY	NO. PCS TESTED	Spec No	Tensile PSI	Yield Strength.2% 2"	Eig X RA. %	Hardness	MINIMUM Tempering
FINISHED HEX HEAD BOLTS											
1.	3/4-10 X 2		4140	100	1	1	144,300	130,400	18.4	57.5	1100F
2.	1/2-13 X 1 1/2		4140	100	1	1	149,400	128,100	20.6	69.1	1100F

"ALL MATERIAL IS OF U.S. ORIGIN & MANUFACTURE" "10 CFR PART 21 APPLIES"  
 "VISUAL EXAMINATION PER ASME SA614 PARA RU AND F788."  
 "ALL MATERIAL IS OF U.S. ORIGIN AND MANUFACTURE. FREE OF WELD REPAIR AND NO MERCURY CONTAMINATION."  
 "ALL MATERIAL IS MANUFACTURED IN ACCORDANCE WITH TEXAS BOLT COMPANY'S CONTROL MANUAL REV. 8, DATED 2-13-89, WHICH WAS QUALIFIED, SURVEYED AND/OR AUDITED BY MACKSON, INC ON 02/21/92."  
 ALL MATERIAL IN ACCORDANCE WITH ASME SECTION III, CLASS 1, 1974 EDITION THRU WINTER 1976."

Note: 'Spec No' column indicates specification number at top of page

ITEM NO.	Visual Inspection			HEAT NUMBER	C	Mn	Si	S	P	Cr	V	Temper	deg F.	hour(s)	0 minute(s)
	NO TESTED	ACCEPTED	REJECTED												
1.	100	100	0	50087	.41	.79	.23	.016	.006	.92		1120		hour(s)	0 minute(s)
Quench in oil	100	100	0	50087	.41	.86	.24	.022	.011	1.00		1120		hour(s)	0 minute(s)
2.	100	100	0	49052	.40	.82	.23	.015	.01	.86		1120	deg F.	hour(s)	0 minute(s)
Quench in oil	100	100	0	49052	.41	.92	.26	.024	.015	1.03		1120	deg F.	hour(s)	0 minute(s)

STATE OF TEXAS  
COUNTY OF HARRIS

Subscribed and sworn to before me this 25th day of February 1993

Connie Gea

Notary Public in and for Harris County, Texas

My commission expires 12-27-95



Q.A. REVIEWED  
DATE 2-24-93

NOTICE!

This report must not be altered in any manner. This report is to be presented only for the exact product and quantity of product described. Bolts described in this report must be marked on the head with either "TB" or "Texas Bolt". Nut and Studs described in this report must be marked with a "T". These marks are registered trademarks of Texas Bolt Company, Inc., and no other markings are certified by this report. If you suspect any alteration has been made to this report, or if you would like verification of its authenticity, please contact Quality Assurance Manager, Texas Bolt Company, 1-800-237-1587.

Inspector Evaluation Approved by:  
J. P. ROBINSON NDE LEVEL III INSPECTOR

I certify the above results to be correct as contained in the records of the company.  
Jonathan Robinson  
Authorized Signature

NDE LEVEL III INSPECTOR

# TEXAS BOLT COMPANY

Manufacturers of Industrial Fasteners

3233 WEST 11th ST. • P.O. BOX 1211

HOUSTON, TEXAS 77251-1211

CABLE "TEXBOLT"

PHONE 889-7111  
AREA CODE 713

41421988  
883613114

August 25, 1988

CAROLINA POWER & LIGHT COMPANY  
C/O ACCOUNTS PAYABLE UNIT  
P. O. BOX 1551  
RALEIGH, NORTH CAROLINA 27602

YOUR ORDER NO: 476610AS  
OUR ORDER NO: 220414

Gentlemen:

We hereby certify that the Cap Screws, on your above order were produced, inspected, and/or tested in accordance with specifications:

ASME SA193 GRADE B7

These products meet all applicable requirements.

- "ALL MATERIAL IS OF U.S. ORIGIN AND MANUFACTURE."
- "10 CFR 21 APPLIES AND 10 CFR 50 APPENDIX B APPLIES."
- "VISUAL EXAMINATION PER SA614 PARA RU."
- "ALL MATERIAL IS MANUFACTURED IN ACCORDANCE WITH TEXAS BOLT COMPANY'S CONTROL MANUAL REV.7, DATED 4-26-83, WHICH WAS QUALIFIED, SURVEYED, AND/OR AUDITED BY CAROLINA POWER & LIGHT CO. 2-9-87."
- ALL MATERIAL IN ACCORDANCE WITH ASME SECTION III, CLASS 2, 1986 EDITION NO ADDENDA.
- ALL MATERIAL IN ACCORDANCE WITH ASME SECTION II, 1986 EDITION THROUGH 1987 ADDENDA.

Very truly yours,

*Edward J. Unkranza*  
EDWARD J. UNKRANZA  
NDE LEVEL III INSPECTOR

EJC/SC

State of Texas  
County of Harris

Subscribed and sworn to before me this 25th day of August, 1988

*Blanca E. Benavide*  
Notary public in and for Harris County, Texas  
My commission expires *May 31, 1989*

*8/2/88*



FOR CAROLINA POWER & LIGHT COMPANY

CUSTOMER P.O. NO. 476610AS

TEXAS BOLT ORDER NO. 220414  
08/25/88 SC

TEXAS BOLT COMPANY  
P.O. BOX 1211  
HOUSTON, TEXAS 77251-1211

1. ASME SA193 GRADE B7 SPECIFICATIONS:

REPORT OF PHYSICAL AND CHEMICAL TESTS

ITEM	DESCRIPTION	REPORT	MATERIAL	QUANTITY	NO. PCS TESTED	Spec No	Tensile PSI	Yield Strength.2% 2"	Eig % 2"	RA. %	MINIMUM Hardness Tempering
1.	FINISHED HEX HEAD CAPSCREWS 3/4"-10 x 2-1/2		4140	25	2	1	140,000	126,000	23.9	61.5	1100F
<p>"ALL MATERIAL IS OF U.S. ORIGIN AND MANUFACTURE."                  "10 CFR 21 APPLIES AND 10 CFR 30 APPENDIX B APPLIES."                  "VISUAL EXAMINATION PER SA614 PARA RU."                  "ALL MATERIAL IS MANUFACTURED IN ACCORDANCE WITH TEXAS BOLT COMPANY'S CONTROL MANUAL REV.7 DATED 4-26-83, WHICH WAS QUALIFIED, SURVEYED, AND/OR AUDITED BY CAROLINA POWER &amp; LIGHT CO. 2-9-87."                  ALL MATERIAL IN ACCORDANCE WITH ASME SECTION III, CLASS 2.                  1986 EDITION NO ADDENDA.                  ALL MATERIAL IN ACCORDANCE WITH ASME SECTION II, 1986 EDITION THROUGH 1987 ADDENDA.</p>											
						Note: 'Spec No' column indicates specification number at top of page					

883613415

ITEM NO.	Visual Inspection			HEAT NUMBER	C	Mn	Si	S	P	Cr	Ni	Mo	V
	NO TESTED	ACCEPTED	REJECTED										
1.	25	25	0	02T595	.40	.82	.17	.025	.02	.77		.19	
Quench in oil 1600 deg F. 1 hour(s) 0 minute(s) Temper in air 1120 deg F. 1 hour(s) 0 minute(s)													

HNP  
NRM

STATE OF TEXAS  
COUNTY OF HARRIS

Subscribed and sworn to before me this 25th day of August 19 88

*Blanca E. Benavidez*  
Notary public in and for Harris County, Texas

My commission expires May 31, 1989

Inspector Evaluation Approved by:  
EDWARD J CHARANZA NDE LEVEL III INSPECTOR

I certify the above results to be correct as contained in the records of the company.

*9/2/88*

*Edward J Charanza*  
NDE LEVEL III INSPECTOR

# TEXAS BOLT COMPANY

Manufacturers of Industrial Fasteners

3233 WEST 11th ST. • P.O. BOX 1211

H. AUSTON, TEXAS 77251-1211

CABLE "TEXBOLT"

PHONE: 889-7111  
AREA CODE 713

October 12, 1988

CAROLINA POWER & LIGHT CO.  
C/O ACCOUNTS PAYABLE UNIT  
P. O. BOX 1551  
RALEIGH, NC 27602

YOUR ORDER NO: 476610AS REPLACEMENT  
OUR ORDER NO: 22 0414

Gentlemen:

We hereby certify that the Cap Screws, on your above order were produced, inspected, and/or tested in accordance with specifications:

ASME SA193 GRADE B7 ✓

These products meet all applicable requirements.

"ALL MATERIAL IS OF U.S. ORIGIN AND MANUFACTURE." "10 CFR 21 APPLIES"  
"ALL MATERIAL IS MANUFACTURED IN ACCORDANCE WITH TEXAS BOLT COMPANY'S CONTROL MANUAL REV #7, DATED 4-26-83, WHICH WAS QUALIFIED, SURVEYED, AND/OR AUDITED BY CAROLINA POWER & LIGHT CO. 2-9-87. ✓  
ALL MATERIAL IN ACCORDANCE WITH ASME SECTION III, CLASS 2, 1986 EDITION NO ADDENDA.  
ALL MATERIAL IN ACCORDANCE WITH ASME SECTION II, 1986 EDITION THROUGH 1987 ADDENDA.

Very truly yours,

*Sharon Charanza*  
SHARON CHARANZA  
NDE LEVEL III INSPECTOR

SC /ml

State of Texas  
County of Harris

Subscribed and sworn to before me this 12th day of October, 1988

*Blanca E. Benavide*  
Notary public in and for Harris County, Texas  
My commission expires *May 31, 1989*

*11-19-88 10-20-88*

FOR CAROLINA POWER & LIGHT CO.  
 CUSTOMER P.O. NO. 476610AS REPLACEMENT

883914980  
 TEXAS BOLT COMPANY  
 P.O. BOX 1211  
 HOUSTON, TEXAS 77251-1211

1. ASME SA193 GRADE B7  
 SPECIFICATIONS

TEXAS BOLT ORDER NO. 22 0414  
 10/12/88 ml

REPORT OF PHYSICAL AND CHEMICAL TESTS

ITEM	DESCRIPTION	REPORT	MATERIAL	QUANTITY	NO. PCS TESTED	Spec No	Tensile PSI	Yield Strength	Elong % 2"	RA %	Minimum Hardness	Tempering
1.	FINISHED HEX HEAD CAPSCREWS 3/4"-10 x 2-1/2		4140	13	2	1	39,000	124,000	22.0	67.7		1100F

"ALL MATERIAL IS OF U.S. ORIGIN AND MANUFACTURE."  
 "ALL MATERIAL IS MANUFACTURED IN ACCORDANCE WITH TEXAS BOLT COMPANY'S CONTROL MANUAL REV. 7 DATED 4-26-83, WHICH WAS QUALIFIED, SURVEYED, AND/OR AUDITED BY CAROLINA POWER & LIGHT CO. 2-9-87."  
 ALL MATERIAL IN ACCORDANCE WITH ASME SECTION III, CLASS 2.  
 ALL MATERIAL IN ACCORDANCE WITH ASME SECTION II, 1986 EDITION THROUGH 1987 ADDENDA.

Note: 'Spec No' column indicates specification number at top of page

ITEM NO.	Visual Inspection			HEAT NUMBER	C	Mn	S	S	P	Cr	Ni	Mo	V
	NO TESTED	ACCEPTED	REJECTED										
1.	13	13	0	L01767	.38	.79	.26	.015	.011	.93		.21	
Quench in oil 1600 deg F.				1 hour(s)	0 minute(s)		Temper	1120 deg F.	1 hour(s)	0 minute(s)			

HNP NRM  
 10/12/88

STATE OF TEXAS  
 COUNTY OF HARRIS

Inspector Evaluation Approved by:  
 SHARON CHARANZA NDE LEVEL III INSPECTOR

Subscribed and sworn to before me this 12th day of  
 October 19 88

I certify the above results to be correct as contained in the records of the company.

*Blanca E. Benavidez*  
 Notary public in and for Harris County, Texas.

*Sharon Charanza*  
 NDE LEVEL III INSPECTOR

My commission expires May 31, 1989

MACKSON, INCORPORATED  
P.O. BOX 12067  
2346 SOUTHWAY DRIVE  
ROCK HILL, SOUTH CAROLINA 29730  
(803)329-6545

TO: CAROLINA POWER & LIGHT  
HARRIS NUCLEAR PLANT  
OPS RCVG BLDG SR1134  
NEW HILL, NC 27562

DATE OF SHIPMENT: July 19, 1995

SUBJECT: CERTIFICATE OF COMPLIANCE

MACKSON, INC. CERTIFIES THAT THE MATERIALS FURNISHED TO  
YOU ON YOUR PURCHASE ORDER 8G3079AS WAS PROCESSED  
IN ACCORDANCE WITH MACKSON INCORPORATED. QSC# 554  
EXPIRATION DATE MARCH 15, 1997 AND QUALITY SYSTEM MANUAL  
DATED OCTOBER 11, 1994 REVISION 4.

<u>ITEM</u>	<u>QUANTITY</u>
1) PART# 514-114-11 3/4-10 X 2-1/2 HEX HD CAPSCREW SA193 GRADE B7 HEAT# M50616	160 PCS.

THIS MATERIAL IS IN ACCORDANCE WITH ALL THE REQUIREMENTS  
OF CAROLINA POWER & LIGHT PO# 8G3079AS, CP&L SPEC. NO.  
CPL-XXXX-M-001 REV. 1 AND ASME SECTION III CLASS 1, 1986  
EDITION NO ADDENDA.

10 CFR PART 21 APPLIES.

Richard G. McSparrin  
QUALITY ASSURANCE TECHNICIAN

July 19, 1995  
DATE

① 7-24-95

# U.S. BOLT MANUFACTURING, INC. CERTIFIED MILL TEST REPORT

U.S.# 11012  
REPORT# UB1790

AMENDED 7/18/96 ML  
DATE: 7/18/96 BP

CUSTOMER: MACKSON, INC.  
CUSTOMER P.O.#: 26859  
DESCRIPTION: HEX HEAD CAPSCREWS

MATERIAL: 4140

SPECIFICATION: ASME SA193 GRADE B7 ✓

SIZE: 3/4"-10 x 2-1/2  
ITEM# 002

QUANTITY: 160 PCS.

### MECHANICAL PROPERTIES: MACHINE SPECIMEN

AREA (SQ. IN.)	HARDNESS	TENSILE LBS	TENSILE PSI	YIELD LBS	YIELD 2% PSI	%ELONG.(4D)	%AREA RED.
.2002	29/30 RC	26,117	130,454	23,988	119,820	23	62.31

CUSTOMER: CP+L  
PO #: 863079A1  
ITEM #: 1

HEAT TREATMENT: AUSTENITIZE, 1600F FOR 1-1/2 HOURS, OIL QUENCHED.  
TEMPERED AT 1200F FOR 2 HOURS, AIR COOLED ✓

VISUAL EXAM: OK ✓      DIMENSION: OK ✓

MATERIAL WAS PRODUCED IN ACCORDANCE WITH U.S. BOLT QUALITY PROGRAM SYSTEM DATED 09/01/92, WHICH WAS AUDITED AND APPROVED BY MACKSON, INC., ON 03/31/95 AS MEETING THE REQUIREMENTS OF ASME SECTION III, NCA3800, 10CFR21, 10CFR50 APPENDIX B APPLIES. MATERIAL IN ACCORDANCE WITH ASME SECTION II, III CLASS 1, 1992 EDITION THRU 1993 ADDENDA. VISUAL EXAM PER ASME B&E14 & F768. NO WELDING ALLOWED. MATERIAL IS FREE FROM MERCURY CONTAMINATION. MATERIAL IS OF U.S. ORIGIN AND MANUFACTURE.

Q.A. REVIEWED  
DATE 7-19-95 R624

HEAT NUMBER M50818 ✓

VENDOR / MILL: NORTH STAR STEEL

### CHEMICAL ANALYSIS

C: 417 ✓      Mn: .87 ✓      Si: .26 ✓      S: .027 ✓      P: .011 ✓      Cr: .95 ✓      Mo: .17 ✓

STATE OF TEXAS  
SUBSCRIBED AND SWORN TO BEFORE ME  
THIS 19TH DAY OF JULY  
[Signature]  
NOTARY PUBLIC IN AND FOR TEXAS  
COMMISSION EXPIRES 12-15-99



WE HEREBY CERTIFY THAT THE DATA  
ABOVE IS CORRECT.  
U.S. BOLT MANUFACTURING, INC.

[Signature]  
MARIA LOERA  
N D E. LEVEL III INSPECTOR

NORTH STAR STEEL MICHIGAN DIVISION MILL ORDER: 882652  
 P.O. BOX 1200 HEAT: M50E16  
 3000 EAST FRONT STREET GRADE: A4140KDD3  
 MONROE, MICHIGAN 48161 SIZE: 3/4"  
 P.O.: 24-21745 PART #:

13330  
 CUSTOMER: CP+L  
 PO#: 863079 AS  
 ITEM#: 1

CERTIFIED TEST REPORT

CHEMICAL ANALYSIS

C	0.4170	Mn	0.8700	P	0.0110	S	0.0270	Si	0.2600
Cu	0.2700	Ni	0.0700	Cr	0.9500	Mo	0.1700	Sn	0.0100
Al	0.0330	V	0.0030	Nb	0.0040	Ti	0.0040	B	0.0000
Ca	0.0008	Zr		N				O	

JOMINY END-QUENCH HARDENABILITY RESULTS (HRC)

dist	1	2	3	4	5	6	7	8	9	10	11	12
	59.0	57.0	56.0	56.0	55.0	55.0	54.0	53.0	53.0	52.0	52.0	50.0
dist	13	14	15	16	18	20	22	24	26	28	30	32
	49.0	47.0	47.0	46.0	40.0	45.0	41.0	41.0	39.0	37.0	35.0	35.0

PHYSICAL TEST RESULTS

Spec Area	Yield Kips	Yield Ksi	Tensile Kips	Tensile Ksi	Ga Len Inches	% Elong.	Hard R.A.	Specific. ASTM
								A-322-88

GRAIN SIZE: 5-8  
 MACRO ETCH:

CLEANLINESS: RESULTS:

Impact Test	Temp	F	FT/Lb	% Shear	L.R.

LENGTH = 24'  
 GRAIN REFINER = ALUMINUM  
 AS ROLLED BHN'S = 293/286; HOT ROLLED  
 ASTM A-304-90; AISI 4140  
 STAND CAST; CONTINUOUS; VACUUM DEGASSED; CALCIUM TREATED  
 STEEL WAS NOT EXPOSED TO MERCURY OR ANY ALLOY WHICH IS LIQUID  
 AT AMBIENT TEMPERATURES DURING PROCESSING OR WHILE IN NORTH STAR  
 POSSESSION.  
 REDUCTION RATIO: 81.5:1

Q.A. REVIEWED  
 DATE 7-19-95 Rbm

This material has been produced and tested in accordance with the requirements of applicable specifications unless otherwise listed below. We hereby certify that the above test results are representative of those contained in the records of the company. Any modification to this certification as provided by North Star Steel Michigan Division without the expressed written consent of North Star Steel Michigan Division negates the validity of this test report. North Star Steel Michigan Division is not responsible for the inability of this material to meet specific applications.

Melted and manufactured in U.S.A.

NY-ALLOY STEELS  
 DATE RECEIVED FEB 24 1994  
 REC'D FROM T.C. And.  
 APPROVED BY Jk

SWORN AND SUBSCRIBED TO BEFORE ME

THIS \_\_\_\_\_ DAY \_\_\_\_\_

(notary public)  
 MY COMMISSION EXPIRES \_\_\_\_\_

THIS CERTIFICATE IS NOTARIZED ONLY WHEN REQUESTED.

Signed John L. Stipanovich  
 Date DEC 14 1993

JOHN L. STIPANOVICH  
 SUPT QUALITY ASSURANCE

Heat treated & MS @ T.C. And. BHN 285/302

ASME NUCLEAR POWER PLANT NUCLEAR CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES

As Required by the Provisions of the ASME Code Section III, Div. 1

1. Manufactured by BIF, 1600 Division Road, West Warwick, RI 02893  
 (Name and Address of N Certificate Holder)

2. Manufactured for Ebasco Services, Inc. - Carolina Power & Light P.O. NY 435211  
 (Name and Address of Purchaser or Owner)

3. Location of Installation Shearon Harris Nuclear Power Plant Unit 1, Wake County, NC  
 (Name and Address)

4. Pump or Valve Butterfly Valve Nominal Inlet Size 8 Outlet Size 8  
 (inch) (inch)

	(a) Model No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l Bd. No.	(g) Year Built
(1)	0657-08	N-67926-1	N/A	A-902844 Rev. D	2	552	1985
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. 8" 150# Pneumatic Operated, Class 2 Nuclear Butterfly Valve  
 (Brief description of service for which equipment was designed)  
 Fluid-Air Tag: 2CP-B1SA-1

6. Design Conditions 45 psi 366 °F or Valve Pressure Class N/A (1)  
 (Pressure) (Temperature)

7. Cold Working Pressure 285 psi at 100°F.

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
<b>(a) Casing Plate</b>			
HT No.	Item #1		
D9185	SA 516 GR. 70	Lukens Steel	Body
HT No.	Item #14		
411H4651	SA 516 GR. 70	Bethlehem Steel	Thrust Cover
<b>(b) Forging Plate</b>			
HT No.	Item #3 - Disc		
411H4651	SA 516 GR. 70	Bethlehem Steel	Disc - Plate
411H4651	SA 516 GR. 70	Bethlehem Steel	Disc - Gasket
99790-26	SA 516 GR. 70	Phoenix Steel	Disc - Hub

(1) For manually operated valves only.

\* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
BT No.	Item #13		
6078475	SA 193 B7	Nuclear Components	Thrust Cover Bolts
(d) Other Parts			

B. Hydrostatic test 450 psi. Disk Differential test pressure 150 psi.

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. I, Edition 1977  
 Addends Winter 1978 Code Case No. N/A Date 3-14-85  
(Date)

Signed BIF by J. De M...  
(In Certificate Holder)

Our ASME Certificate of Authorization No. N-2038 to use the N symbol expires 3-17-87  
(Date)

**CERTIFICATION OF DESIGN**

Design information on file at Edsco and BIF  
 Stress analysis report (Class I only) on file at N/A

Design specifications certified by (1) Jack I. Berenberg  
 PE State N.C. Reg. No. 8587  
 Stress analysis certified by (1) N/A  
 PE State \_\_\_\_\_ Reg. No. \_\_\_\_\_

(1) Signature not required. List name only.

**CERTIFICATE OF SHOP INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of RI and employed by Lumbermens Mutual Casualty of Long Grove, IL. have inspected the pump, or valve, described in this Data Report on 2-14 19 85, and state that to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 3-14 19 85  
Frank Aruffi (Inspector) Commissions RI 455 118 5966  
(Natl Bd., State, Prov. and No.)



**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 10/12/95  
Name  
P.O. Box 1551, Raleigh, N. C. 27602-1551 Sheet 1 of 1  
Address
2. Plant Shearon Harris Nuclear Power Plant Unit 1  
Name  
P.O. Box 165, New Hill, N. C. 27562-0165 <sup>DCS</sup>  
Address WR&A 94-AHPK1 (ESR 95-00641)  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Carolina Power and Light Company Type Code Symbol Stamp N/A  
Name  
New Hill, N.C. 27562-0165 Address  
Authorization No. N/A  
Expiration Date N/A
4. Identification of System Chemical and Volume Control System (2060)
5. (a) Applicable Construction Code ASME Sect. III 19 74 Edition, Winter 1976 Addenda, \_\_\_\_\_ Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1976
6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Globe Piston Check Valve	Anchor Darling Valve Co.	EB854-2-2	1374	1CS-193 2CS-V138SN-1	1991	Replaced	Yes
Check Valve	Rockwell International	CD-108	1034	Same	1986	Replacement	Yes
Pipe	Sandvik Steel Company	Ht# 474900	N/A	2CS2-298SN-61 Part# 738-803-61	1990	Replacement	No
Coupling	Colonial	Ht# CJF	N/A	Part# 732-106-92	1995	Replacement	No

7. Description of Work Replaced 2" check valve leaking by its seat with one from another manufacturer and design.
8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure   
Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/4 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks See attached manufacturer's data reports and certificates of compliance. Pressure testing was performed per Code Case  
Applicable Manufacturer's Date Reports to be attached  
N-368 in lieu of a hydrostatic test as the valve replaced was immediately downstream of a centrifugal pump whose suction side  
would have been overpressurized if the valve was hydrostatically tested.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the  
ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed W. Glover Supervisor ECCS Date October 16, 19 95

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the  
State or Province of North Carolina and employed by The Hartford Steam Boiler and Insurance Company of  
One State Street, Hartford, Connecticut 06102 have inspected the components described  
in this Owner's Report during the period 05/13/94 to 10/12/95, and state that  
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the  
examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer  
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with  
this inspection,

Elgar B. Dwyer Commissions NC 1042  
Inspector's Signature National Board, State, Province, and Endorsements

Date 10-19-95 19 95

**FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES\***  
 (As Required by the Provisions of the ASME Code, Section III, Div. 1)

1. Manufactured by Rockwell International, P.O. Box 501, Sulphur Springs, TX 75482  
(Name and Address of Manufacturer)  
 2. Manufactured for Ebasco Services Inc., Two Rector St., New York, NY 10006  
(Name and Address of Purchaser or Owner)  
 3. Location of installation Shearon Harris Nuclear Power Plant, Wake County, NC  
(Name and Address)  
 4. Pump or Valve Valve - Check Nominal Inlet Size 2" Outlet Size 2"  
(inch) (inch)

	(a) Model No. Series No. or Type	(b) Manufacturers' Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Std. No.	(g) Year Built
(1)	B36274F316RT1	CD108-CD113	NA	BM 1607514	1	1034-1039	1986
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. Rockwell International Assembly Lot No. H7339 Qty. 6  
(Serial designation of valves for which components were designed)  
ACD Drawing No. C-31607513-A Design Report B-2751791

\*Remarks: Corrected Code Edition and Addenda per revised drawing.

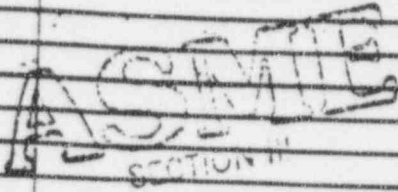
6. Design Conditions 2270 psi 800 °F or Valve Pressure Class 1521 (1)  
(Pressure) (Temperature)  
 7. Cold Working Pressure 3650 psi at 100°F.

Mark No.	Material Spec. No.	Manufacturer	Remarks
<b>(a) Castings</b>			
NA			
<b>(b) Forgings</b>			
Bodies SK502 HT#]	SA182F316	Texas Forge	LTV Steel Heat 8650585
Bodies SK501 HT#]	SA182F316	Texas Forge	LTV Steel Heat 8650309

(1) For manually operated valves only.  
 \* Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.  
 (3/77)  
 This form (800037) may be obtained from the Order Dept., ASME, 345 E. 47 St., New York, N.Y. 10017

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Page 2

Mark No.	Material Spec. No.	Manufacturer	Remarks
(c) Bolting			
NA			
			
(d) Other Parts			
Covers G0204	SA479T316	Coulter	Carpenter Heat 40681
Disks G0034#1	A565GR616	Hy-Level	Joslyn Heat 82829
Disks F7868#1	A565GR616	Hy-Level	Joslyn Heat 82829

9. Hydrostatic test 5475 psi.

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components, Section III, Div. 1, Edition 1974\* Addenda Winter, 1976\* Code Case No. None Date 6/19/86

Signed Rockwell International by [Signature]  
(Manufacturer)

Our ASME Certificate of Authorization No. N-1814 to use the (N) symbol expires 8/12/86  
(N) (NPV) (Date)

**CERTIFICATION OF DESIGN**

Design information on file at Rockwell International, Sulphur Springs, Texas  
 Stress analysis report (Class 1 only) on file at Rockwell International, Sulphur Springs, Texas

Design specifications certified by (1) Ivan Grosz  
 PE State NC Reg. No. 9986

Stress analysis certified by (1) Ricky E. Spears  
 PE State TX Reg. No. 57980

(1) Signature not required. List name only.

**CERTIFICATE OF SHOP INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of TEXAS and employed by Victoria Lloyds' Ins. Co. of Houston, Texas 77098 have inspected the pump, or valve, described in this Data Report on \*See Remarks and state that to the best of my knowledge and belief, the Manufacturer has constructed this pump, or valve, in accordance with the ASME Code, Section III.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 6-25 1986  
[Signature]  
(Inspector) Commission TEXAS 782  
(NBPV Bd. State, Prov. and No.)

U 3 1 3 1

Page 128

738-802 1

DUBOSE NATIONAL ENERGY SERVICES, INC.  
900 INDUSTRIAL DRIVE // CLINTON, NC 28328  
Certificate of Conformance/Compliance/CMTR

Customer:

-----  
CAROLINA POWER & LIGHT  
SHEARON-HARRIS PLANT  
SR #1134  
NEW HILL, NC

27562

Date 9/18/94 Serial No. 38886  
Our DC No. 101213  
This material meets the requirements  
of your PO number 7Q7963-CJ ✓

Item	Pieces	Description	Grade	Heat # / Heat Code
1	1	2" S/160 X RL PIPE ASME SA312	T304 SANDVIK	474900

This material has been supplied in accordance with DuBose National Energy Services, Inc. Quality System Program Rev. 3, dated 06-21-94 in compliance with 10CFR50 APP. B. The contents of the report are correct and accurate and the results are in compliance with the material specification, the code, and the customer purchase order.

Based upon our review of the manufacturer's CMTR this material supplied in accordance with the 1974 Edition thru Winter 1976 Addenda, Section II & III NCA3800, Subsection ND Class 3.

NO IMPACT TESTING OR NDE PERFORMED.  
10CFR21  
ASME QSC 327 EXPIRES 3-31-96  
SPEC. 056 REV. 10  
INTERGRANULAR CORROSION PER ASTM A262 PRACTICE E

*Ruth Barber-Rich* 9.20.94  
James N Dailey, QA Manager Date  
Ruth Barber-Rich, Assistant QA Manager  
Laurie Dickson, Certification Engineer  
Tammy Williams, QA Technician

9.22.94

K





# MATERIAL CERTIFICATE

7702

## SANDVIK STEEL COMPANY

P.O. BOX 1220, SCRANTON, PA. 18501 PH. (717) 587-5191  
PLANT LOCATION: INTERSTATE 81, WAVERLY EXIT 59

SOLD TO: DU BOSE STEEL INC  
ROSEBORO NC

SHIP TO: DU BOSE STEEL INC  
ROSEBORO NC

CUSTOMER PURCHASE ORDER NO.: 17103-63

CERTIFICATE DATE: 5/21/90

SANDVIK ORDER NO.: 905203

QUANTITY: 204'11"

WORK ORDER / LOT NO.: 85447/80516

TAG:

ASTM A-312-89a/A-376-88, ASME SA-312/376, ASME SECTION III: CLASS 2 1989 EDITION

SEAMLESS PIPE TYPE 304  
Analysis, %

SIZE: 2" SCH 160

DUBOSE STEEL  
QA REVIEW  
SATISFACTORY  
BBB 5/30/90  
INITIAL DATE

Heat	C	Si	Mn	P	S	Cr	Ni
474900	.014	.43	1.15	.020	.007	18.24	10.08

Mo	Cb/Nb	Ta	Ti
.38			

CAROLINA POWER & LIGHT  
PO#7Q7963-CJ

### Mechanical Tests

Yield Str. psi	Tensile Str. psi	Elong. 2", %	Hydr. Pressure Test psi (5-sec. hold time)
30100	60200	62	2500

Width of tensile test gauge length: 1 (1 = full-size tube; 2 = 1/2" strip)

Flattening Test: OK

No weld repair has been performed on this material.

The material has not come in contact with mercury or mercury-containing compounds.

All material subjected to a final solution annealing heat treatment with material at a temperature of 1900 deg.F. minimum, followed by rapid water quenching to below 800 deg. F in less than three (3) minutes.

Code "Work Order Number" and/or the "Heat Number" identifies this material in accordance with ASME Code requirements. The work order number, if applicable, will be shown above under WORK ORDER/LOT NO. and will be marked on the material.

Material has been corrosion tested to ASTM A-262 Pr. E: OK

Marking materials contain less than 200 ppm halogens.

Material has been deionized water rinsed.

This is to certify that the contents of this certificate are correct and accurate, as contained in Sandvik's records, and that all above test results and operations performed are in compliance with the requirements of the purchase order and the applicable sections of the Code and specifications as designated by the purchase order and 10CFR21.

Material has been manufactured in accordance with a quality system program qualified to ASME Section III, NCA 3800 and under our ASME Quality System Certificate (materials) No. QSC-238.

Expiration Date: June 11, 1991.

*Gerard F. Dougherty* 3-22-90

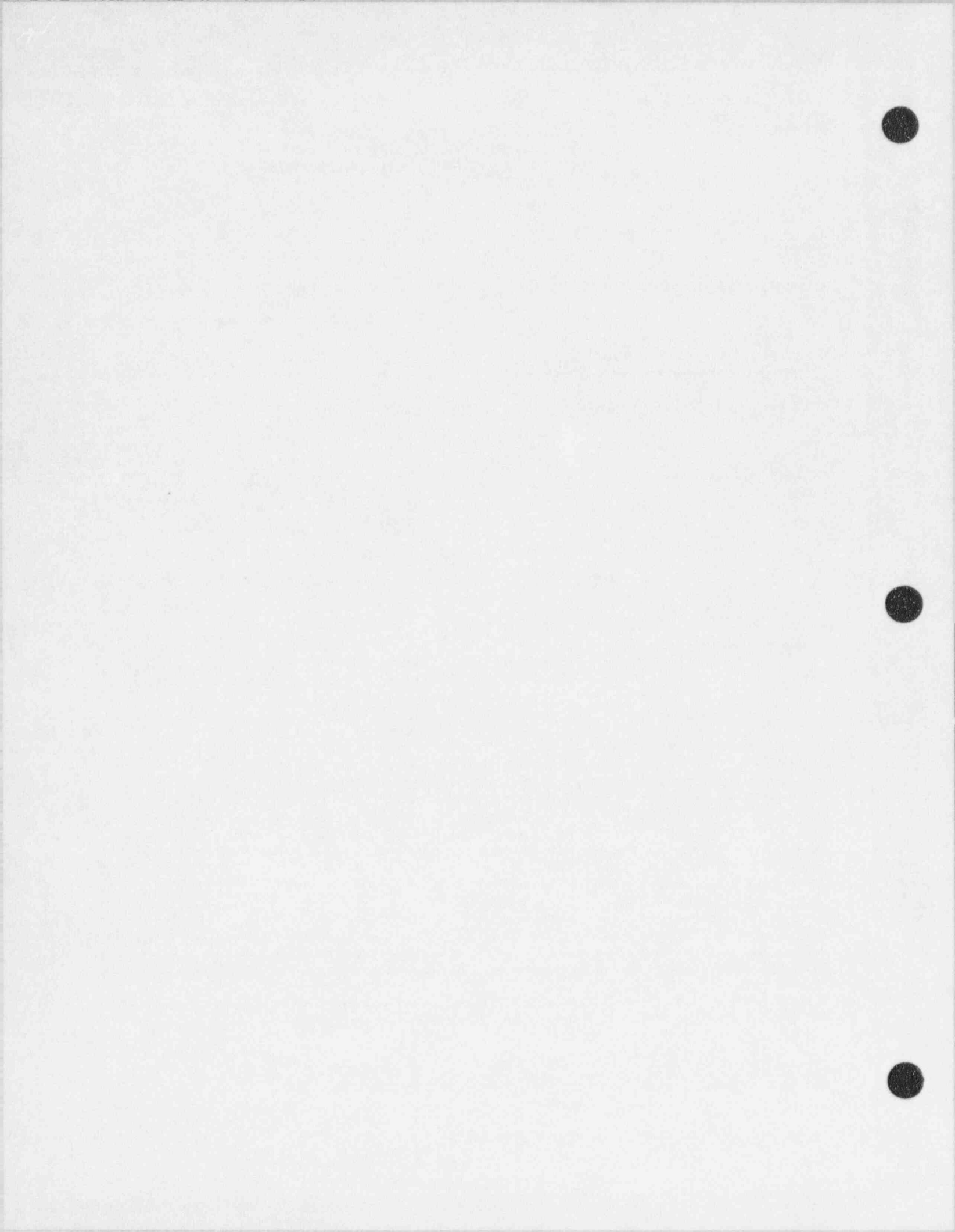
For Bengt H. Berg, Director Quality and Metallurgy 35CFIN5H1(30527b)(35)

**GERARD F DOUGHERTY**

Quality Engineer, Tubular Products

9-22-90

CUSTOMER ORIGINAL





DUBOSE NATIONAL ENERGY SERVICES, INC.  
900 INDUSTRIAL DRIVE // CLINTON, NC 28328  
Certificate of Conformance/Compliance/CMTR

Customer:

-----  
CAROLINA POWER AND LIGHT  
CP & L - SHEARON-HARRIS PLANT  
STATE RD 1134  
NEW HILL, NC 27562

Date 8/30/95 Serial No. 41580 D  
Our DC No. 906461  
This material meets the requirements  
of your PO number 8G9179CJ

Item	Pieces	Description Specification	Grade	Heat # / Heat Code
5	3	2" 6M SW COUPLINGS ASME SA182	F304 COLONIAL	CJF

This material has been supplied in accordance with DuBose National Energy Services, Inc. Quality System Program Rev. 4, dated 07-01-95 in compliance with 10CFR50 APP. B. The contents of the report are correct and accurate and the results are in compliance with the material specification, the code, and the customer purchase order.

Based upon our review of the manufacturer's CMTR this material supplied in accordance with the 1974 Edition thru Winter 1976 Addenda, Section III, MA3700/NCA3800, Subsection NC Class 2.

ASME Section II 1989 Edition 1989 Addenda  
NO IMPACT TESTING OR NDE PERFORMED.  
10CFR21  
ASME QSC 327 EXPIRES 3-31-96

*James N Dailey*  
 \_\_\_\_\_  
 James N Dailey, QA Manager  
 Ruth Barber-Rich, Assistant QA Manager  
 Laurie Dickson, Certification Engineer  
 Tommy Williams, QA Technician

*8/30/95*  
 \_\_\_\_\_  
 Date



FORM NPV-1 (back)

8. Remarks 2"-1878#-Globe Piston Check Valve

Ref. A/DV S.O. EBB54-2

9. Design conditions 310' (pressure) psi 450 (temperature) °F or valve pressure class 1878 (1)
10. Cold working pressure 4507 psi at 100°F
11. Hydrostatic test 6975 psi. Disk differential test pressure 4958 psi

912573447

CERTIFICATION OF DESIGN

Design Specification certified by R. A. Stewart P.E. State NC Reg. no. 8677  
 Design Report certified by T. C. Bartlett P.E. State PA Reg. no. PE-039036-E

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N1712 Expires 4/15/92  
 Date 8/26/91 Name Anchor/Darling Valve Company Signed R. L. Starnut  
(N Certificate Holder) (Authorized Representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State Board of Inspection of Pennsylvania and employed by Commercial Union Ins. Co. of Boston, Mass. have inspected the pump, or valve, described in this Data Report on 4-29128-27 18 91 and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 8-27-91 Signed Charles Young Commission No. 189544 N  
(Inspector) (Not'l. Bd. dival. environmental state or prov. and no.)  
CHARLES YOUNG Pennsylvania 2392

(1) For manually operated valves only.

① 9.9.91

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner Carolina Power & Light Company Date 12/22/95  
Name  
P.O. Box 1551, Raleigh, N. C. 27602-1551 Address Sheet 1 of 1
2. Plant Shearon Harris Nuclear Power Plant Unit 1  
Name  
P.O. Box 165, New Hill, N. C. 27562-0165 Address WR&A 94-AIAF1  
Repair Organization P.O. No., Job No., etc.
3. Work Performed by Carolina Power and Light Company Type Code Symbol Stamp N/A  
Name  
New Hill, N.C. 27562-0165 Address Authorization No. N/A  
Expiration Date N/A
4. Identification of System Chemical and Volume Control (2060)
5. (a) Applicable Construction Code ASME Sect. III 1974 Edition, Winter 1976 Addenda, \_\_\_\_\_ Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 83, Addenda Summer 1983

## 6. Identification of Components Repaired and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Hex Nuts 5/8 - 11	Allied Nut & Bolt Co., Inc.	Ht# 151603	N/A	Part# 727-417-88 PO# 8F7794	1995	Replacement	No
Threaded Rod 5/8 - 11	Mackson, Inc.	Ht# 50035	N/A	Part# 727-419-60 PO# 8C4141	1994	Replacement	No

7. Description of Work Replaced bolt in discharge flange of relief valve 1CS-47

8. Tests Conducted: Hydrostatic  Pneumatic  Nominal Operating Pressure  - N/A  
Other  Pressure \_\_\_\_\_ psi Test Temp. \_\_\_\_\_ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks See attached certificate of conformance. Subject relief valve, letdown heat exchanger relief, relieves to the VCT. Due  
Applicable Manufacturer's Date Reports to be attached  
to location no effective pressure test can be performed even though an inservice leak test might have been otherwise required.  
Following consultation with the ANII, it was determined that no pressure test would be performed.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the  
ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed W. Blower ECCS Supervisor Date 27 December, 19 95  
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the  
State or Province of North Carolina and employed by The Hartford Steam Boiler and Insurance Company of  
One State Street, Hartford, Connecticut 06102 have inspected the components described  
in this Owner's Report during the period 05/13/94 to 10/12/95, and state that  
to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this  
Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the  
examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer  
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with  
this inspection,

Edgar B. Dayton Commissions NC 1042  
Inspector's Signature National Board, State, Province, and Endorsements

Date Dec 28 19 95

# Allied Nut & Bolt Co., Inc.

Member of the Allied Group	210 270-2000
210 270-2000	210 270-2000
P.O. Box 60570	210 270-2000
City of Kansas, Pa. 19102	210 270-2000

## CERTIFICATE OF COMPLIANCE

MATERIAL SPECIFICATION:

DATE: 06/26/95

SA194 GRADE 2H

MATERIAL DESCRIPTION AND IDENTIFICATION:

5/8-11UNC2H HEAVY HEX NUT

SA194 GRADE 2H

HT: 151603 TR: 622 222 PCS.

ASME SECTION III CLASS 2 NC 1974 EDITION THRU W'76 ADDENDA

10CFR21 APPLIES

CUSTOMER P.O. NO.: 8F7794AS

ALLIED INVOICE NO.: 78092

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This material was supplied under Allied's QSC No. 529 which expires on May 3, 1997. Test results and operations are in compliance with the requirements of the material specifications and the specific requirements of Section III paragraphs where designated by the purchaser unless otherwise noted under remarks.

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REMARKS:

ALL MATERIAL IS IN CONFORMANCE WITH THE C.P. & L. PURCHASE ORDER REQUIREMENTS. MATERIAL IS STAMPED WITH JOH. SMIT'S MFG. MARK, GRADE AND TRACE. PARTS WERE 100% VISUALLY INSPECTED. CONE STRIP PROOF LOAD TEST - 32,150# OK

ALLIED NUT & BOLT CO., INC.

*James Muscarella*

James Muscarella  
O/C Product Support

DOCUMENT REVIEWED

BY: *[Signature]*

DATE: 06/26/95

ALLIED NUT & BOLT CO., INC.

SAL DELEO - O.C. SUPP.

(3)

MACKSON, INCORPORATED  
 P.O. BOX 12067  
 2346 SOUTHWAY DRIVE  
 ROCK HILL, SOUTH CAROLINA 29730  
 (803)329-6545

TO: CAROLINA POWER & LIGHT  
 HARRIS NUCLEAR PLANT  
 OPS RCVG BLDG SR1134  
 NEW HILL, NC 27562

DATE OF SHIPMENT: December 9, 1994

SUBJECT: CERTIFICATE OF COMPLIANCE

MACKSON, INC. CERTIFIES THAT THE MATERIALS FURNISHED TO YOU ON YOUR PURCHASE ORDER SC4141CH WAS PROCESSED IN ACCORDANCE WITH MACKSON INCORPORATED. QSC# 554 EXPIRATION DATE MARCH 15, 1997 AND QUALITY SYSTEM MANUAL DATED OCTOBER 11, 1994 REVISION 4.

<u>ITEM</u>	<u>QUANTITY</u>
1) PART# 727-419-60 5/8-11 X 6' ALL THREAD ROD SA193 GRADE B7 HEAT# 50035 HEAT CODE "NAV"	60 FT.

THIS MATERIAL IS IN ACCORDANCE WITH ALL THE REQUIREMENTS OF CAROLINA POWER & LIGHT PO# SC4141CH, SITE SPEC. 055 REV.8, AND ASME SECTION III CLASS 2, 1974 EDITION WINTER 1976 ADDENDA.

*Thomas R. Sharp*  
 \_\_\_\_\_  
 QUALITY ASSURANCE MANAGER

December 9, 1994

\_\_\_\_\_  
 DATE

②072:1494

\* SIS \* STOCK ISSUE INQUIRY AUDIT TRAIL

PART INFORMATION

OUR PART NO. 727-417-88 MFG PART NO. N/A  
ORD: NUT HX INVENTORY CLASS 1 R/P P  
ENDED DESCRIPTION:  
NUT,HX,HV,5/8-11 SA194 GR.2H,S  
SOLE SOURCE  
UNIT WT  
BIN 2R3B1

REQUISITION (RQ) / RESERVATION (RS) AUTH

REQUISITIONER TBM-SMITH, DELIVER TO SMITH, WARR DATE REQUIRED 09 20 95  
PO NUMBER 8F7794 HEAT NUMBER NA WO 94-AIAP1 JOB  
CHG TO I91 CHG BY I91 ACT N0084 TOJ PHYSID 11B  
ISSUE REQ. NUMBER ALMB92 REQ. QTY 000000002 DELIVER TO WHSE 03

ACTUAL ISSUE BELOW

QTY.ISSUE 000000002 U/I EA DATE ISSUED 09 20 95 TRAN CD WR TAX JUR WA #D 1.  
ISSUED BY: WHSE 03 AUTHORITY ERM TAX CD  
QTY REC'D RECEIVED BY: WHSE 03 DATE RECEIVED  
RECEIVER BIN: 2R3B1

FUNC KEY 727-417-88 TKEY P NO TNO R WHSE 03  
MESSAGES:

B \*\* NUM LU #50



\* SIS \* STOCK ISSUE INQUIRY AUDIT TRAIL

PART INFORMATION

OUR PART NO. 727-419-60 MFG PART NO. N/A  
WORD: ROD THRD INVENTORY CLASS 1 R/P P

ENDED DESCRIPTION:

ROD,THRD,5/8-11,SA193 GR B7,S  
SOLE SOURCE  
UNIT WT  
BIN 8PR4A

REQUISITION (RQ) / RESERVATION (RS) AUTH MRT

REQUISITIONER MRT-HELEMS DELIVER TO DATE REQUIRED 00 00 00

PO NUMBER 8C4141 BEAT NUMBER N WO 94-AIAF1 JOB

CHG TO I91 CHG BY I91 ACT N0084 PROJ PHYSID 31B

ISSUE REQ. NUMBER ALMC71 REQ. QTY 0000000001 DELIVER TO WHSE 03

ACTUAL ISSUE BELOW

QTY.ISSUE 0000000001 U/I FT DATE ISSUED 09 20 95 TRAN CD WR TAX JUR WA MD 1.

ISSUED BY: WHSE 03 AUTHORITY MRT-HELEMS TAX CD

QTY REC'D RECEIVED BY: WHSE 03 DATE RECEIVED

RECEIVER BIN: 8PR4A

FUNC KEY 727-419-60 TKEY P NO TNO R WHSE 03

MESSAGES:

B \*\*

NUM LU #50