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 50-401 Shearon Harris Nuclear Power Plant, Unit 2, Carolina 05000401
 AUTH. NAME AUTHOR AFFILIATION
 MCDUFFIE, M.A. Carolina Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION
 DENTON, H.R. Office of Nuclear Reactor Regulation, Director

SUBJECT: Forwards response to Matls Engineering Branch draft SER Open Item 36 re beltline matl test requirements of 10CFR50, App G, Paragraph III.C.2.

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THE UNITED STATES OF AMERICA
 DISTRICT COURT OF THE DISTRICT OF COLUMBIA
 IN RE: **[Name]**
 Debtor
 Chapter 11
 Case No. **[Case Number]**
 Filed **[Date]**

DATE	DESCRIPTION	AMOUNT	CREDIT	DEBIT	BALANCE
1/1/80	Initial Balance				
1/15/80	Payment Received	100.00	X		100.00
2/1/80	Interest Expense	50.00		X	50.00
2/15/80	Payment Received	75.00	X		125.00
3/1/80	Interest Expense	25.00		X	100.00
3/15/80	Payment Received	150.00	X		250.00
4/1/80	Interest Expense	75.00		X	175.00
4/15/80	Payment Received	125.00	X		300.00
5/1/80	Interest Expense	50.00		X	250.00
5/15/80	Payment Received	200.00	X		450.00
6/1/80	Interest Expense	100.00		X	350.00
6/15/80	Payment Received	175.00	X		525.00
7/1/80	Interest Expense	75.00		X	450.00
7/15/80	Payment Received	150.00	X		600.00
8/1/80	Interest Expense	50.00		X	550.00
8/15/80	Payment Received	125.00	X		675.00
9/1/80	Interest Expense	75.00		X	600.00
9/15/80	Payment Received	100.00	X		700.00
10/1/80	Interest Expense	50.00		X	650.00
10/15/80	Payment Received	75.00	X		725.00
11/1/80	Interest Expense	25.00		X	700.00
11/15/80	Payment Received	50.00	X		750.00
12/1/80	Interest Expense	25.00		X	725.00
12/31/80	Final Balance				725.00



SERIAL: LAP-83-244

Carolina Power & Light Company

JUL 01 1983

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
United States Nuclear Regulatory Commission
Washington, DC 20555

SHEARON HARRIS NUCLEAR POWER PLANT
UNIT NOS. 1 AND 2
DOCKET NOS. 50-400 AND 50-401
DRAFT SAFETY EVALUATION REPORT RESPONSES
MATERIALS ENGINEERING BRANCH

Dear Mr. Denton:

Carolina Power & Light Company (CP&L) hereby transmits one original and forty copies of the response to the Shearon Harris Nuclear Power Plant Draft Safety Evaluation Report (DSER) CP&L Open Item 36.

Carolina Power & Light Company will be providing responses to other Open Items in the DSER shortly.

Yours very truly,

M. A. McDuffie
Senior Vice President
Engineering & Construction

PS/kjr (7097PSA)
Attachment

cc: Mr. B. J. Elliot (NRC-MTEB)
Mr. N. Prasad Kadambi (NRC)
Mr. G. F. Maxwell (NRC-SHNPP)
Mr. J. P. O'Reilly (NRC-RII)
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Dr. J. H. Carpenter (ASLB)
Mr. J. L. Kelley (ASLB)

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Shearon Harris Nuclear Power Plant
 Draft Safety Evaluation Report (DSER)
 Materials Engineering Branch
Open Item 36 (DSER Section 5.3.1.2, pages 5-12 and 5-19)

To demonstrate compliance with the beltline material test requirements of Paragraph III.C.2 of Appendix G, 10 CFR 50:

Indicate the post-weld heat treatment used in the fabrication of the beltline production and test welds.

Indicate the plates used to fabricate the test welds.

Indicate whether the test specimens for the beltline weld seams were removed from excess material in the vessel shell course following completion of the weld joint.

Response

The post weld heat treatment used in fabrication of the beltline production and test welds is as follows:

	<u>Production Weld</u>	<u>Test Weld</u>
Unit 1	1150°F - 10-1/4 Hr-FC	1150°F - 10 Hr-FC
Unit 2	1150°F - 9 Hr-FC	1150°F - 9-1/2 Hr-FC

Plates used to fabricate test welds are as follows:

Unit 1 Plate B4197-2 and A9153-1
 Unit 2 Plate B4197-1 and A9154-2

Test specimens for beltline weld seams were removed from a separate weldment since the same welding process was used for longitudinal and circumferential welds in the plates.

The same weld procedure was used in fabricating the production welds and test weld. The following weld parameters were used to fabricate the welds.

<u>Submerged Arc Weld</u>	<u>Electrode</u>		<u>Current (Amps)</u>	<u>Voltage (Volts)</u>	<u>Travel (1 PM)</u>
	<u>Size</u>	<u>Type</u>			
Single Wire*	3/16" dia.	RACD INMM	550-650	28-32	10-18
Tandem Wire (head) (trail)	3/16" dia.	RACD INMM	650-750	32-36	24 (Min.)
	3/16" dia.	RACD INMM	550-650	34-37	

*Single wire used until joint was wide enough for tandem wire welding.

The first part of the document discusses the importance of maintaining accurate records and the role of the various departments involved. It highlights the need for clear communication and coordination between different units to ensure that all tasks are completed efficiently and effectively.

The second part of the document provides a detailed overview of the current status of the project. It outlines the progress made to date and identifies the key challenges that remain. The document also includes a list of the tasks that need to be completed in the next few weeks, along with the responsible parties for each task.

The third part of the document discusses the budget for the project and the current financial situation. It provides a breakdown of the costs incurred to date and the estimated costs for the remaining work. The document also includes a comparison of the actual costs to the budgeted costs, highlighting any variances and the reasons for those variances.

The fourth part of the document discusses the risks associated with the project and the strategies that are being used to mitigate those risks. It identifies the most significant risks and provides a clear plan of action for how to address each risk.

The fifth part of the document discusses the communication plan for the project. It outlines the key messages that need to be communicated and the channels that will be used to deliver those messages. The document also includes a list of the stakeholders who will be involved in the communication process and the roles that they will play.

The sixth part of the document discusses the overall conclusions of the project and the lessons learned. It provides a summary of the key findings and offers recommendations for how to improve the project process in the future.

Item	Description	Quantity	Unit Price	Total Price
1	Material A	100	\$5.00	\$500.00
2	Material B	200	\$3.00	\$600.00
3	Material C	50	\$10.00	\$500.00
4	Material D	150	\$4.00	\$600.00
5	Material E	75	\$8.00	\$600.00
6	Material F	120	\$5.00	\$600.00
7	Material G	90	\$7.00	\$630.00
8	Material H	110	\$5.50	\$605.00
9	Material I	80	\$7.50	\$600.00
10	Material J	130	\$4.50	\$585.00