

50-400/2401-402/403

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

FILE NUMBER

TO: Mr. Edson G. Case		FROM: Carolina Pwr. & Light Company Raleigh, North Carolina M. A. McDuffie		DATE OF DOCUMENT 6/2/77
<input checked="" type="checkbox"/> LETTER <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> COPY		<input type="checkbox"/> NOTORIZED <input checked="" type="checkbox"/> UNCLASSIFIED		DATE RECEIVED 6/6/77
PROP		INPUT FORM		NUMBER OF COPIES RECEIVED 15160015

DESCRIPTION

Ltr. notorized 6/2/77...w/attached Cert. of Service...consisting of info. concerning installation of the seal mat.....

(4-P)

PLANT NAME: Shearon Harris Units 1-2-3-4

RJL 6/8/77

ENCLOSURE

ACKNOWLEDGED

DO NOT REMOVE

SAFETY

FOR ACTION/INFORMATION

ENVIRO

ASSIGNED AD:	Vassallo	ASSIGNED AD:
BRANCH CHIEF:	Parv	BRANCH CHIEF:
PROJECT MANAGER:	Miney	PROJECT MANAGER:
LIC. ASST.:	Rushbrook	LIC. ASST.:

INTERNAL DISTRIBUTION

REG FILE	SYSTEMS SAFETY	PLANT SYSTEMS	SITE SAFETY &
NRC PDR	HEINEMAN	TEDESCO	ENVIRO ANALYSIS
I & E (2)	SCHROEDER	BENAROYA	DENTON & MULLER
OELD		LAINAS	
GOSSICK & STAFF	ENGINEERING	IPPOLITO	ENVIRO TECH.
MIPC	MACARRY	KIRKWOOD	ERNST
CASE	BOSNAK		BALLARD
HANAUER	SIHWEIL	OPERATING REACTORS	SPANGLER
HARLESS	PAWLICKI	STELLO	
			SITE TECH.
PROJECT MANAGEMENT	REACTOR SAFETY	OPERATING TECH.	GAMMILL
BOYD	ROSS	EISENHUT	STAPP
P. COLLINS	NOVAK	SHAO	HULMAN
HOUSTON	ROSZTOCZY	BAER	
PETERSON	CHECK	BUTLER	SITE ANALYSIS
MELTZ		GRIMES	VOLLNER
HELTEMES	AT & I		BUNCH
SKOVHOLT	SALTZMAN		J. COLLINS
	RUTBERG		KREGER

EXTERNAL DISTRIBUTION

CONTROL NUMBER

LPDR: Raleigh, NC	NAT. LAB:	BROOKHAVEN NAT. LAB.	771600015
TIC:	REG V. IE	ULRIKSON (ORNL)	
NSIC:	LA PDR		
ASLB:	CONSULTANTS:		
ACRS 16 CYS HOLDING/SENT	AS CAT B		

DO NOT WRITE

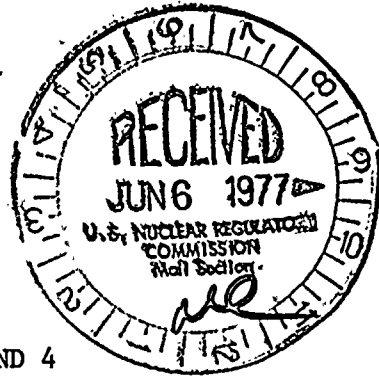
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CP&L
RECEIVED DOCUMENT
JUN 28 1977

Carolina Power & Light Company

June 28 1977



Mr. Edson G. Case, Acting Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Regulatory Docket File

SHEARON HARRIS NUCLEAR POWER PLANT, UNITS 1, 2, 3 AND 4
DOCKET NOS. 50-400, 50-401, 50-402, 50-403

Dear Mr. Case:

On December 15, 1975 Carolina Power & Light Company notified the Nuclear Regulatory Commission that we intended, as a final step in the excavation process, to lay a thin protective coating of concrete on the horizontal surfaces and rock slopes that were exposed in the power block area of the Shearon Harris Nuclear Power Plant. The purpose of this coating was to protect these surfaces from further weathering and to maintain them in a suitable condition for later construction for the foundation. On January 30, 1976 Mr. Youngblood of your staff informed the Company that the work we intended to perform was not specifically authorized by the exemption granted on January 14, 1974. Although CP&L did not at that time agree with Mr. Youngblood's interpretation of the exemption, we did not choose to pursue the issue because acquiring the CP in December 1976 (the then projected CP&L schedule) would have provided adequate time for construction.

Having not acquired the construction permit in December 1976 and still having a pressing need to bring Unit #1 into commercial service in 1984, we can no longer accomodate in the construction schedule the laying of the seal mat after the construction permit is granted.

The Company's construction schedule was and is based on the construction permit issuance in December 1976. Since receipt of these permits on the originally intended schedule is obviously unattainable, our construction schedule is under increased pressure since the required inservice date for Unit 1 of March 1984 remains unchanged. It has become imperative that the Company now be allowed to install the mud mat to prevent further deterioration and to partially alleviate the pressure on its construction schedule.

The Company has always interpreted the excavation process to include protection of the exposed surfaces, and considers such action to be consistent with prudent construction practices. It has been our position that this activity would be allowable under the exemption, even though the administrative authority for accomplishing this task was not specifically delineated in the January 14, 1974 exemption.

June 2, 1977

The North Carolina Utilities Commission has expressed its grave concerns about projected needs for power in the Company's territory in the early 1980's. The Company's ability to provide power from the early Harris units necessary to meet these needs will be severely jeopardized if authorization to install this thin seal mat is not granted as soon as possible and a construction permit issued by year end. In view of the projected needs for power identified by the North Carolina Utilities Commission, it is very much in the public interest that the action requested by this letter be taken. With a construction permit granted this year, only 66 months exist before the required fuel loading, for Unit 1, a time span which is significantly less than is being experienced for the construction of current nuclear power plants. Therefore, approval to lay the mud mat now and granting of the construction permit this year are of vital importance in meeting the construction schedule for operation in 1984.

The seal mat that we are requesting will consist of a nominally 4-inch thick layer of 2,000 psi concrete which will be applied to the horizontal surfaces and portions of the rock slope surfaces of the power block excavation and may require wire mesh reinforcing. It will be placed following removal of the loose or deteriorated material which now exists. The protective layer on the rock slopes will be applied either by the shotcrete method or formed in place. The coating will generally follow irregularities in the shot rock surfaces and will not appreciably exceed the 4-inch nominal thickness except in local areas where it could reach 6 inches or 8 inches in thickness.

The environmental conditions of the excavation will be significantly enhanced by the prevention of additional weathering of exposed surfaces. The environmental impact of the placement of the seal mat is minimal, in that redress of the area can be accomplished easily with the use of normal construction equipment and techniques.

In summary, because of the continuing need to protect the excavation, the overall construction schedule considerations, the concerns expressed by the North Carolina Utilities Commission, and the minimal environmental impact involved, seal mat installation at this time is imperative. We are anxious to receive your approval on this matter as soon as possible. Please do not hesitate to contact us if we can be of any assistance in explaining this seal mat installation to the members of your staff. A copy of this letter is being served upon all members of the SHNPP ASLB and parties of this proceeding on this date.

Yours very truly,

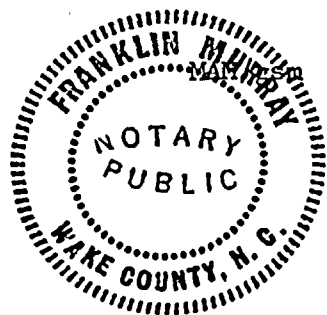
M. A. McDuffie

M. A. McDuffie
Senior Vice President
Engineering & Construction

Sworn to and subscribed before me this 2nd day of June, 1977.

My Commission Expires October 4, 1981

Franklin Murray



UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

In the Matter of)	
)	
CAROLINA POWER & LIGHT COMPANY)	Docket Nos. 50-400
)	50-401
(Shearon Harris Nuclear Power Plant)	50-402
)	50-403
Units 1, 2, 3, and 4))	

CERTIFICATE OF SERVICE

This is to certify that a copy of Mr. M. A. McDuffie's letter of June 2, 1977 concerning installation of the seal mat for Carolina Power & Light Company's Shearon Harris Nuclear Power Plant Units 1, 2, 3, and 4 has this 2nd day of June, 1977 been served upon the Chief Executive Officers of Wake and Chatham Counties, North Carolina by deposit of the same in the United States mail addressed as follows:

Mr. Vassar P. Shearon, Chairman
Board of County Commissioners of Wake County
P. O. Box 550
Raleigh, North Carolina 27602

Mr. Ben Wimberly, Chairman
Board of County Commissioners of Chatham County
Post Office Box 111
Pittsboro, North Carolina 27312

A copy of Mr. McDuffie's letter has also been served this day upon each member of the Atomic Safety and Licensing Board, other appropriate NRC personnel, and additional parties to the proceedings by deposit of the same in the United States mail addressed as follows:

Ivan W. Smith, Esq.
Atomic Safety and Licensing Board Panel
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Mr. Glenn O. Bright
Atomic Safety and Licensing Board Panel
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Mr. Nathaniel H. Goodrich, Chairman
Atomic Safety and Licensing Board Panel
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Secretary
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555
Attention: Chief, Public Proceeding Staff

Mr. Thomas S. Erwin
Post Office Box 928
115 West Morgan Street
Raleigh, North Carolina 27602

Mr. C. A. Barth
Regulatory Staff Counsel
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Jesse C. Brake, Esq.
Department of Justice
Post Office Box 629
Raleigh, North Carolina 27602

Office of Intergovernmental Relations
116 West Jones Street
Raleigh, North Carolina 27603

Mr. Dave Hopkins
Environmental Protection Agency
1421 Peachtree Street, N. E.
Atlanta, Georgia 30309


Carolyn S. Parlato

Attorney
Carolina Power & Light Company

Business Address: P. O. Box 1551
Raleigh, N. C. 27602

Business Telephone: Area Code 919
836-6830

Dated: June 2, 1977

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