

50-400 Thru 403

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

FILE NUMBER

PSAR/FSAR AMDT DIST.

TO: Mr. E. Case		FROM: CP & L Raleigh, N.C. 27602 M.A. McDuffie		DATE OF DOCUMENT 9-28-77
<input checked="" type="checkbox"/> LETTER <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> COPY		<input type="checkbox"/> NOTORIZED <input checked="" type="checkbox"/> UNCLASSIFIED	PROP	DATE RECEIVED 9-30-77
			INPUT FORM	NUMBER OF COPIES RECEIVED 1 Signed

DESCRIPTION	Ltr trans the following: 1P	ENCLOSURE	Cost estimates for revised cooling towerblowdown system..... 3P (1 cy encl rec'd)
PLANT NAME: Shearon Harris 1-2-3-4 DHL 9-30-77			

FOR ACTION/INFORMATION

ASSIGNED AD: (LTR)	Vassallo
BRANCH CHIEF:	Parr
PROJECT MANAGER:	Miner
LICENSING ASST: (LTR)	Rushbrook

INTERNAL DISTRIBUTION

REG FILE (4)	LAINAS
NRC PDR	IPPOLITO
I & E	F. ROSA
OELD (LTR)	GAMMILL (2)
P. COLLINS	VOLLMER (LTR)
HOUSTON	BUNCH
HELTEMES	J. COLLINS
CASE (LTR)	KREGER
MIPC (LTR)	REGAN
KNIGHT (LTR)	ECHOLS
BOSNAK	KREUTZER
SIHWEIL	
PAWLICKI	
ROSS (LTR)	
NOVAK	
ROSZTOCZY	
CHECK	
TEDESCO (LTR)	
BENAROYA	

EXTERNAL DISTRIBUTION

CONTROL NUMBER

LPDR: RALEIGH, N.C.	
TIC	
NSIC	
ACRS 16 CYS SENT CATEGORY B	

772730/68



Carolina Power & Light Company

September 28, 1977

REGULATORY DOCKET FILE COPY

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

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

Dear Mr. Case:

On September 26, 1977 Carolina Power & Light Company (CP&L) submitted to the Nuclear Regulatory Commission copies of the testimony of Mr. J. M. Sell and Dr. W. T. Hogarth regarding NRC and Environmental Protection Agency concerns about the effects of increased cooling tower blowdown at the Shearon Harris Nuclear Power Plant. As supplemental information to that testimony, revised estimates indicate that the cost of the cooling tower blowdown system will be increased by approximately \$6,500,000 as a result of modifications to the system. A breakdown of the additional cost is provided on the attached table.

Yours very truly,

M. A. McDuffie
Senior Vice President
Engineering & Construction

MAM/gsm
Attachment

772730/68

TABLE 1

Cost estimates for revised cooling tower blowdown rate of 60 MGD (10 MGD original design), relocation and rerouting of make-up water line from the Cape Fear River to the cooling water reservoir, and revised design and length of cooling tower blowdown line. All costs listed are in 1977 dollars and include indirect costs and interest.

	<u>Estimated Cost (\$1,000)</u>
1. <u>Makeup Water Line</u> (Cape Fear River to cooling reservoir)	
A. Original Design (10 MGD Blowdown)	
1. - 12,000 ft. of 102" Dia. Concrete Pipe	10,530
B. Revised Design (60 MGD Blowdown) This revised design required the relocation of this line.	
1. - 10,000 ft. of 96" dia. concrete pipe	
2. - 9,000 ft. of open-channel	12,850
3. - Discharge channel to reservoir	
C. Difference Between Present Revised Design and Original (B-A)	2,320
2. <u>Cooling Tower Blowdown Line</u> (Cooling Tower to Reservoir)	
A. Original Design (10 MGD Blowdown)	
1. 14,000 ft. of 2-15" dia. fiberglass pipes	7,330
B. Present Revised Design (60 MGD Blowdown)	
1. 19,000 ft. of 48" dia. concrete pipe	10,110
C. Difference Between Present Revised Design and Original (B-A)	2,780
3. <u>Cooling Tower Makeup System - Intake Lines</u> (Makeup structure to cooling tower)	
A. Original Design (10 MGD Blowdown Rate).	
1. These lines are of varying sizes and varying hardware and will not be itemized here for this purpose.	4,230

B. Revised Design (60 MGD Blowdown)

1. Ebasco has not as yet completed the design, but estimates the cost as: 4,653

- C. Difference Between Present Revised Design and Original (B-A) 423

4. Cooling Tower Makeup System - Intake Structure
(Feeding Cooling Towers From Reservoir)

A. Original Design (10 MGD Blowdown Rate)

1. Quantities of earthwork, concrete and rebar will not be itemized here for this purpose. 9,333

B. Revised Design (60 MGD Blowdown Rate)

1. Ebasco has not yet completed the design, but estimates the cost as: 10,266

- C. Difference Between Present Revised Design and Original (B-A) 933

SUMMARY OF COST DIFFERENCE

1. - Makeup water line	2,320
2. - Cooling tower blowdown line	2,780
3. - Cooling tower makeup: Intake lines	423
4. - Cooling tower makeup structure	<u>933</u>

Total Cost Related to
Revising Original Design 6,456

cc: Ivan W. Smith, Esquire
Chairman
Atomic Safety and Licensing Board
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

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

Dr. J. V. Leeds, Jr.
10807 Atwell
Houston, Texas 77096

James M. Cutchin, IV, Esquire
Office of the Executive Legal
Director
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Jesse C. Brake, Esquire
Associate Attorney General
State of North Carolina
Post Office Box 629
Raleigh, North Carolina 27602

Charles A. Barth, Esquire
Office of the Executive Legal
Director
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Thomas S. Erwin, Esquire
Post Office Box 928
115-1/2 West Morgan Street
Raleigh, North Carolina 27602

