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FACIL:50-400 Shearon Harris Nuclear Power Plant, Unit 1, Carolina 05000400
50-401 Shearon Harris Nuclear Power Plant, Unit 2, Carolina 05000401
50-402 Shearon Harris Nuclear Power Plant, Unit 3, Carolina 05000402

AUTH.NAME AUTHOR AFFILIATION
MCDOFFIE,M.A. Carolina Power & Light Co.
RECIP.NAME RECIPIENT AFFILIATION
DENTON,H.R. Office of Nuclear Reactor Regulation

SUBJECT: Informs that sampling station was incorrectly designated in const phase environ monitoring program.Correcterd program encl.

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	18 LA EPB#2	1	1	AD MOORE	1	0
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	10 CST BNFT ANL	1	1	11 TA/EDO	1	1
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	OELD	1	0			
EXTERNAL:	03 LPDR	1	1	04 NSIC	1	1
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LTR:
LWR
LWR#3
RIVER
LWR#3

FEB 7 1980

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ENVIRO 1

CP&L

Carolina Power & Light Company

January 28, 1980

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulations
United States Nuclear Regulatory Commission
Washington, D.C. 20555

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

Dear Mr. Denton:

The Construction Permit for the Shearon Harris Nuclear Power Plant (SHNPP) requires that Carolina Power & Light Company (CP&L) conduct a comprehensive environmental sampling, monitoring, and surveillance program adequate to determine an ecological baseline for measuring the operational impact of the station on land and water ecosystems. Based on this requirement and general statements made by the NRC in the Revised Final Environmental Statement, CP&L designed a monitoring and sampling program to satisfy these requirements. A copy of this program was provided to Mr. Andrew Cunningham of your staff during a site visit early in 1978.

It was recently discovered by us that one of the Little White Oak Creek sampling stations was incorrectly designated on the program provided to Mr. Cunningham; the station identified as LW-2 should have been identified as LW-3. A corrected copy of this program, which designates the Little White Oak Creek sampling section as LW-3, is attached.

Please contact my staff if you have any questions concerning this matter.

Yours very truly,

M A McDuffie

M. A. McDuffie
Senior Vice President
Engineering & Construction

MAM/jcb

Attachment

C002
ES
1/1

411 Fayetteville Street • P. O. Box 1551 • Raleigh, N. C. 27602

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CONSTRUCTION PERMIT REQUIREMENTS -3F (2)

SHEARON HARRIS NUCLEAR POWER PLANT
CONSTRUCTION PERMIT BIOLOGICAL MONITORING PROGRAM

ACCOUNTABILITY: MANAGER, ENVIRONMENTAL TECHNOLOGY SECTION

Type of Study	Parameter(s) Measured or Assessed	Frequency	Stations Sample Area, or Route	Duration
AQUATIC				
Water Chemistry	Physical-chemical: Temperature, Dissolved Oxygen, Conductivity, pH	Monthly	River stations (B-1, B-2, B-3, D-1, D-2 and D-3) Stream stations (BK-2, BK-3 CC-1, LW-3, LW-8, TJ-1, W-1, W-3 and W-42)	One year after all units are in operation
	Chemical Analyses: (See Table 1)	Monthly	River stations (B-2 and Dq2) Stream stations (BK-2, BK-3, CC-1, LW-3, LW-8, TJ-1, W-1, W-3 and W-42)	One year after all units are in operation
Periphyton and plankton	Distribution and abundance	Quarterly	River stations (B-1, B-2, B-3, D-1, D-2 and D-3) Stream stations (BK-2, BK-3, CC-1, LW-8, TJ-1, W-1 and W-42)	One year after all units are in operation
Benthos	Distribution and abundance	Quarterly	River stations (B-1, B-2, B-3, D-1, D-2 and D-3) Stream Stations (BK-2, BK-3, CC-1, LW-8, W-1, W-42 and TJ-1)	One year after all units are in operation
Fisheries	Distribution, abundance, food habits, and age/growth	Quarterly	River transects (B-C and D) Stream stations (BK-2, BK-3, CC-1, LW-8, LW-3, W-3 and TJ-1)	One year after all units are in operation

Type of Study	Parameter(s) Measured or Assessed	Frequency	Stations, Sample Area, or Route	Duration
TERRESTRIAL				
Vegetation	Quantitative determinations by quarter point analysis	Biennial (1978, 1980, etc.)	SA-3 and SA-4	One year after all units are in operation
	Qualitative observation	Three times/ year (spring, summer, fall)	SA-1, SA-2, SA-3, SA-4 and throughout the site area	
Avifauna	Relative abundance and species diversity	Quarterly	1) Holleman's Crossroad-Buckhorn Dam Route	Until reservoir flooding blocks rou
			2) Merry Oaks-Buckhorn Dam Route	One year after all units are in operation
Mammals	Relative abundance, species diversity and distribution	Quarterly	SA-1, SA-2, SA-3 and SA-4	One year after all units are
Terrestrial Vertebrates (amphibians reptiles, birds and mammals)	Qualitative observation for occurrence and distribution	Quarterly	SA-1, SA-2, SA-3, SA-4 and throughout the site area	One year after all units are in operation

Note: 1) Stream Stations LW-3, LW-8, TJ-1, W-1, W-3, Terrestrial Station SA-1 and avifauna survey route #1 will be discontinued as the reservoir is filled. Aquatic sampling transects will be established in the reservoir.
2) Reporting requirements are limited to maintaining current data and procedures on file for access by the NRC Office of Inspection and Enforcement.

SHEARON HARRIS NUCLEAR POWER PLANT
POTENTIAL NPDES MONITORING REQUIREMENTS

ACCOUNTABILITY: MANAGER, ENVIRONMENTAL TECHNOLOGY SECTION

Type of Study	Parameter(s) Measured or Assessed	Frequency	Stations, Sample Area, or Route	Duration
Suspended Solids	Total suspended solids	To be determined by the NPDES Permit		

BIOLOGICAL SAMPLING STATIONS

Shearon Harris Nuclear Power Plant

	Station	Creek Name	Location
I.	BK-3	Buckhorn Creek	50 m downstream of Route 1116 bridge
	CC-1 (S-4)	Cary Branch	30 m upstream of Route 1127 bridge
	LW-3	Little White Oak Creek	Route 1127
	LW-8 (S-7)	Thomas Creek	25 m upstream of Route 1134 bridge
	TJ-1	Tom Jack Creek	15 m downstream of Route 1132 bridge
	W-1 (S-3)	White Oak Creek	20 m downstream of Route 1914 bridge
	W-3 (S-5)	White Oak Creek	Route 1127
	W-42 (S-2)	Buckhorn Creek	70 m downstream of Highway 42 bridge
	BK-2 (S-1)	Buckhorn Creek	From Route 1921
	D, BC and B	Cape Fear River	From Route 1921
II.	SA-1		Old field off Route 1914
	SA-2		Field off Route 1132
	SA-3		Pine-mixed hardwoods off Route 1127
	SA-4		Mixed hardwoods off Route 1115

III. Wildlife Survey Routes

Merry Oaks to Cape Fear River (Routes 1911 and 1912, NC 42 and Route 1921)

Holleman's Crossroads to Cape Fear River (Route 1130, 1914, 1912, NC 42 and Route 1921)

Table 1

Water Chemistry Parameters Measured

pH
Alkalinity (as $CaCO_3$)
Chloride
Conductivity
Hardness
Ammonia
Total Kjeldahl Nitrogen
Nitrate
C.O.D.
Total Phosphate
Total Orthophosphate
Dissolved Silica
Total Solids
Total Suspended Solids
Total Dissolved Solids (Glass Fiber Filter)
Total Dissolved Solids (0.45 u Filter)
Chromium +6
Mercury
Total Aluminum
Total Calcium
Total Copper
Total Iron
Total Lead
Total Magnesium
Total Manganese
Total Nickel
Total Zinc
Sulfate
Turbidity
Total Organic Carbon
Total Volatile Solids
Total Sodium