

AEC DISTRIBUTION FOR PART 50 DOCKET MATERIAL
(TEMPORARY FORM)

CONTROL NO: 9385

FILE: Environmental File

FROM: Carolina Power & Light Company Raleigh, N.C. 27602 Mr. E.E. Uteley			DATE OF DOC 9-5-74	DATE REC'D 9-12-74	LTR X	TWX	RPT	OTHER
TO: E.G. Case			ORIG 3 signed	CC	OTHER	SENT AEC PDR XXX SENT LOCAL PDR XXX		
CLASS	UNCLASS XXX	PROP INFO	INPUT	NO CYS REC'D 40		DOCKET NO: 50-261		

DESCRIPTION:
Ltr re Routine Operating Rpt #7....trans the following....

ENCLOSURES:
Corrections to the Routine Operating Rpt #7...concerning Environmental Monitoring Report.....

ACKNOWLEDGED

(40 cys encl rec'd)

DO NOT REMOVE

PLANT NAME: H.B. Robinson

FOR ACTION/INFORMATION 9-17-74 IR

BUTLER(L)	SCHWENCER(L)	ZIEMANN(L)	✓ REGAN(E)
W/ Copies	W/ Copies	W/ Copies	W/ Copies
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INTERNAL DISTRIBUTION

<u>REG FILE</u>	<u>TECH REVIEW</u>	<u>DENTON</u>	<u>LIC ASST</u>	<u>A/T IND</u>
✓ AEC PDR		GRIMES		BRAITMAN
OGC, ROOM P-506A	SCHROEDER	GAMMILL	DIGGS (L)	SALTZMAN
MUNTZING/STAFF	MACCARY	✓ KASTNER	GEARIN (L)	B. HURT
CASE	KNIGHT	✓ BALLARD	GOULBOURNE (L)	<u>PLANS</u>
GIAMBUSSO	PAWLICKI	SPANGLER	KREUTZER (E)	MCDONALD
BOYD	SHAO		LEE (L)	CHAPMAN
MOORE (L)(FWR)	STELLO	<u>ENVIRO</u>	MAIGRET (L)	DUBE w/input
DEYOUNG(L)(FWR)	HOUSTON	MULLER	✓ REED (E)	E. COUPE
SKOVHOLT (L)	NOVAK	DICKER	SERVICE (L)	D. THOMPSON (2)
GOLLER(L)	ROSS	KNIGHTON	SHEPPARD (L)	KLECKER
P. COLLINS	IPPOLITO	YOUNGBLOOD	SLATER (E)	EISENHUT
DENISE	TEDESCO	REGAN	SMITH (L)	
✓ REG OPR	LONG	✓ PROJECT LDR	✓ TEETS (L)(m/c)	
FILE & REGION (3)	LAINAS	<u>Dittman</u>	WILLIAMS (E)	
MORRIS	BENAROYA	HARLESS	WILSON (L)	
STEELE	VOLLMER			

EXTERNAL DISTRIBUTION

✓ 1 - LOCAL PDR <u>La Hartsville, S.C.</u>	✓ (1)(2)(10) - NATIONAL LABS	1-PDR-SAN/LA/NY
✓ 1 - TIC (ABERNATHY)	1-ASLBP(E/W Bldg, Rm 529)	1-BROOKHAVEN NAT LAB
✓ 1 - NSIC (BUCHANAN)	1-W. PENNINGTON, Rm E-201 GT	1-G. ULRIKSON, ORNL
1 - ASLB	✓ 1-B&M SWINEBROAD, Rm E-201 GT	1-AGMED (RUTH GUSMAN)
1 - Newton Anderson	1-CONSULTANTS	Rm E-127 GT
✓ (3) - ACRS XXXXXX Sent to Reed	NEWARK/BLUME/AGBABIAN	1-RD..MUELLER, Rm E-127 GT
9-17-74		



Carolina Power & Light Company

September 5, 1974

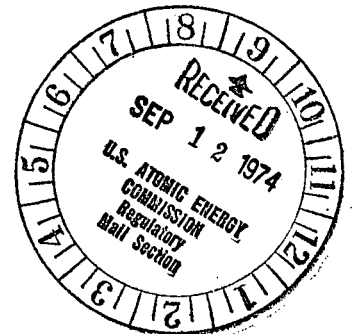
Regulatory Docket File

50 • 261

File: NG-3514 (R)

Serial: NG-74-1070

Mr. Edson G. Case, Deputy Director
Directorate of Licensing
Office of Regulation
U. S. Atomic Energy Commission
Washington, D. C. 20545



Dear Mr. Case:

H. B. ROBINSON UNIT NO. 2
LICENSE DPR-23
CORRECTIONS TO ROUTINE OPERATING REPORT NO. 7

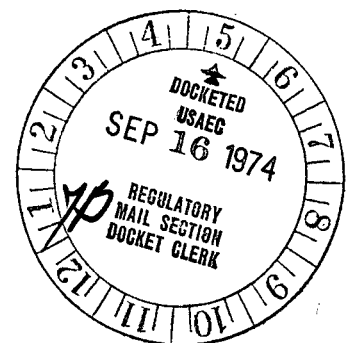
In a recent inspection by the Directorate of Regulatory Operations on the H. B. Robinson Unit No. 2 Plant, Carolina Power & Light Company received a citation for incorrect reporting of sample numbers in connection with the Environmental Monitoring Program and incorrect calculation of average concentrations of waste release in our Routine Operating Report No. 7. In an effort to correct these errors and to provide the Atomic Energy Commission with data consistent with plant operating records, we have attached forty-five copies of corrected pages which should replace the pages presently in the report. By copy of this letter, we are also providing forty-five copies of a table presenting monthly surface water composites of weekly samples for the year 1973, which are required to be reported by Section 4.10 of the Technical Specifications but were inadvertently not included in Routine Operating Reports No. 6 and No. 7.

Yours very truly,

E. E. Utley
Vice-President
Bulk Power Supply

DBW:mvp
Attachment

cc: Messrs. N. B. Bessac
J. B. McGirt
W. B. Howell
D. V. Menscer
D. B. Waters



9385

ENVIRONMENTAL PROGRAM SUMMARY

July - December

1973

<u>Type</u>	<u>Locations</u>	<u>Number of Samples</u>	<u>Significant Result</u>
Air	2	51	None
Area Radiation Levels	22	132	None
Soil	2	2	None
Sediment	4	8	None
Water (Surface)	5	130	Tritium present at low levels
Water (Ground)	1	4	None
Water (Ground)	1	2 (Special)	None
Fish	1	4	None
Vegetation	2	4	None
Monthly Composites	1	6	

A maximum average of 1.6 mrem/week was observed at the plant picnic area, which is located approximately 1000 feet southeast of the nuclear plant. The lowest average weekly exposure at this point was 1.1 mrem, while the highest average weekly exposure was 1.9 mrem.

MONTHLY SURFACE WATER COMPOSITES

January 1, 1973 - December 31, 1974)

(Sampling Station No. 11 - SW11)

	Gross Beta (pCi/l)	Tritium (pCi/l)
January, 1973	0.0 ± 3.7	1500 ± 700
February, 1973	0.0 ± 2.5	1500 ± 800
March, 1973	4.2 ± 3.9	< 800
April, 1973	0.0 ± 3.7	1600 ± 800
May, 1973	0.0 ± 3.5	1200 ± 700
June, 1973	0.0 ± 3.9	1300 ± 1000
July, 1973	6.6 ± 4.1	900 ± 500
August, 1973	0.0 ± 3.4	< 800
September, 1973	0.0 ± 3.5	2000 ± 500
October, 1973	0.0 ± 3.9	1800 ± 300
November, 1973	0.0 ± 3.6	3200 ± 600
December, 1973	0.0 ± 4.1	3100 ± 300

REPORT OF RADIOACTIVE EFFLUENTS

Facility H. B. Robinson #2

Year 1973

I. LIQUID RELEASES

	Units	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1. Gross Radioactivity (Bq)							
a) Total release	Curies	0.01202	0.00762	0.00766	0.01812	0.1496	0.0438
b) Average concentration released	uCi/ml	2.46×10^{-9}	1.25×10^{-9}	1.41×10^{-9}	2.02×10^{-9}	1.86×10^{-8}	6.78×10^{-10}
c) Maximum concentration released	uCi/ml	7.04×10^{-9}	5.04×10^{-9}	1.61×10^{-9}	4.06×10^{-9}	9.51×10^{-8}	1.89×10^{-8}
2. Tritium							
a) Total release	Curies	52.945	39.928	41.087	77.173	45.289	78.308
b) Average concentration released	uCi/ml	1.08×10^{-5}	1.18×10^{-5}	7.58×10^{-6}	8.59×10^{-6}	5.61×10^{-6}	1.21×10^{-5}
3. Dissolved noble gases							
a) Total release	Curies	0.00623	0.00219	0.003113	0.01213	0.08578	0.01533
b) Average concentration released	uCi/ml	1.28×10^{-9}	6.46×10^{-10}	5.74×10^{-10}	1.35×10^{-9}	1.06×10^{-8}	2.37×10^{-10}
4. Gross Alpha Radioactivity							
a) Total release	Curies	$0 \pm 4.18 \times 10^{-7}$	$0 \pm 4.18 \times 10^{-7}$	$0 \pm 4.18 \times 10^{-7}$	$0 \pm 4.18 \times 10^{-7}$	$0 \pm 4.18 \times 10^{-7}$	$0 \pm 4.18 \times 10^{-7}$
b) Average concentration released	uCi/ml	0.0	0.0	0.0	0.0	0.0	0.0
5. Volume of liquid waste to discharge canal	liters	3.92×10^5	2.43×10^5	2.09×10^5	4.0×10^5	1.14×10^6	6.55×10^5
6. Volume of dilution water	liters	4.88×10^9	3.39×10^9	5.42×10^9	8.98×10^9	8.06×10^9	6.46×10^9
7. Isotopes Released	Curies						
Ba-140		$0 \pm 3.80 \times 10^{-6}$	$0 \pm 3.50 \times 10^{-7}$	1.92×10^{-4}	$0 \pm 3.82 \times 10^{-6}$	$0 \pm 6.79 \times 10^{-6}$	8.70×10^{-4}
Br-82		$0 \pm 5.10 \times 10^{-9}$	2.4×10^{-5}	3.90×10^{-5}	6.04×10^{-4}	2.43×10^{-2}	0 ± 4.5
I-131		1.92×10^{-3}	2.36×10^{-3}	1.12×10^{-4}	1.02×10^{-3}	2.34×10^{-2}	6.92×10^{-3}
Xe-133		5.89×10^{-3}	1.90×10^{-3}	2.96×10^{-3}	1.19×10^{-2}	8.53×10^{-2}	1.51×10^{-2}
Xe-135		3.37×10^{-4}	2.44×10^{-4}	2.12×10^{-4}	2.18×10^{-4}	4.67×10^{-4}	2.80×10^{-4}
Cs-137		$0 \pm 5.01 \times 10^{-6}$	$0 \pm 2.00 \times 10^{-6}$	1.04×10^{-3}	1.73×10^{-3}	1.43×10^{-2}	2.23×10^{-3}
Cs-134		1.37×10^{-3}	$0 \pm 3.19 \times 10^{-6}$	9.86×10^{-4}	$0 \pm 1.97 \times 10^{-6}$	7.75×10^{-3}	$0 \pm 2.37 \times 10^{-7}$
Co-60		1.25×10^{-2}	3.38×10^{-3}	4.26×10^{-3}	4.24×10^{-3}	1.04×10^{-2}	5.55×10^{-3}
Co-58		7.25×10^{-3}	8.82×10^{-4}	2.24×10^{-3}	1.79×10^{-3}	$0 \pm 2.57 \times 10^{-6}$	4.24×10^{-3}
Cr-51		$0 \pm 3.12 \times 10^{-6}$	$0 \pm 3.47 \times 10^{-4}$	$0 \pm 2.06 \times 10^{-5}$	$0 \pm 1.97 \times 10^{-5}$	$0 \pm 1.68 \times 10^{-5}$	7.66×10^{-3}
Eu-54		3.29×10^{-3}	1.65×10^{-3}	1.20×10^{-3}	2.18×10^{-3}	5.58×10^{-3}	1.52×10^{-3}
Zn-65		$0 \pm 4.46 \times 10^{-6}$	$0 \pm 4.93 \times 10^{-6}$	1.78×10^{-3}	$0 \pm 5.48 \times 10^{-6}$	$0 \pm 5.58 \times 10^{-6}$	$0 \pm 7.52 \times 10^{-6}$
Sr-90		1.41×10^{-4}	1.45×10^{-5}	4.0×10^{-5}	8.40×10^{-4}	2.34×10^{-3}	$0 \pm 3.64 \times 10^{-7}$
Others (specify)							
8. Percent of technical specification limit for total activity released		16.27 %	12.27 %	13.05 %	23.719 %	14.3890 %	24.04 %
		.7797 %	.7692 %	.928 %	.6615 %	8.54 %	4.31 %