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 FACIL:50-269 Oconee Nuclear Station, Unit 1, Duke Power Co. 05000269
 50-270 Oconee Nuclear Station, Unit 2, Duke Power Co. 05000270
 50-287 Oconee Nuclear Station, Unit 3, Duke Power Co. 05000287

AUTH.NAME AUTHOR AFFILIATION
 TUCKER, H.B. Duke Power Co.
 RECIP.NAME RECIPIENT AFFILIATION

O'REILLY, J.P. Region 2, Office of Director

SUBJECT: "Semiannual Release & Solid Waste Disposal Rept, Jan-June 1983," R/830929 ltr.

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INTERNAL:	ACRS 11	1 1	AEDD	1 1
	IE FILE 01	1 1	NRR/DE/EEB 08	1 1
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	NRR/DSI/RAB 10	1 1	RGN2/DRSS/EPRPB	1 1
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EXTERNAL:	LPDR 03	1 1	NRC PDR 02	1 1
NOTES:		1 1		

DCONEE NUCLEAR STATION
 RADIOACTIVE EFFLUENT RELEASES
 DATE : 09/28/83

I. LI LEASES		UNITS	1ST QTR	2ND QTR	YEAR : 1983 SUBTOTAL
1.	GROSS RADIOACTIVITY				
	A. TOTAL RELEASE	CURIES	3.38E-02	7.90E-02	1.13E-01
	B. AVERAGE CONCENTRATION RELEASED	UCI/ML	1.17E-10	2.26E-10	1.76E-10
	C. MAXIMUM CONCENTRATION RELEASED	UCI/ML	5.02E-09	9.19E-09	6.59E-09
2.	TRITIUM				
	A. TOTAL RELEASE	CURIES	3.15E+02	3.94E+02	7.09E+02
	B. AVERAGE CONCENTRATION RELEASED	UCI/ML	1.08E-06	1.13E-06	1.11E-06
3.	DISSOLVED NOBLE GASES				
	A. TOTAL RELEASE	CURIES	1.00E+00	1.26E+00	2.26E+00
	B. AVERAGE CONCENTRATION RELEASED	UCI/ML	3.45E-09	3.61E-09	3.54E-09
4.	GROSS ALPHA ACTIVITY				
	A. TOTAL RELEASE	CURIES	0.00E+00	0.00E+00	0.00E+00
	B. AVERAGE CONCENTRATION RELEASED	UCI/ML	0.00E+00	0.00E+00	0.00E+00
5.	VOLUME OF LIQUID WASTE TO DISCHARGE CANAL	LITERS	1.87E+07	1.13E+07	3.00E+07
6.	VOLUME OF DILUTION WATER	LITERS	2.90E+11	3.50E+11	6.40E+11
7.	RADIONUCLIDES RELEASED	CURIES			
	F-18		0.00E+00	0.00E+00	0.00E+00
	NA-24		0.00E+00	0.00E+00	0.00E+00
	AR-41		0.00E+00	0.00E+00	0.00E+00
	CR-51		4.53E-04	2.40E-03	3.05E-03
	NM-54		1.76E-04	4.46E-04	6.21E-04
	NM-56		0.00E+00	0.00E+00	0.00E+00
	CO-57		5.63E-06	0.00E+00	5.60E-06
	CO-58		1.26E-03	3.70E-02	3.82E-02
	CO-60		2.75E-03	2.73E-03	5.48E-03
	FE-59		0.00E+00	1.10E-05	1.10E-05
	NI-65		0.00E+00	0.00E+00	0.00E+00
	ZM-65		0.00E+00	0.00E+00	0.00E+00
	KR-85		3.63E-02	7.87E-02	1.15E-01
	KR-85M		0.00E+00	0.00E+00	0.00E+00
	KR-87		0.00E+00	0.00E+00	0.00E+00
	KR-88		0.00E+00	0.00E+00	0.00E+00
	Y-88		0.00E+00	0.00E+00	0.00E+00
	Y-92		0.00E+00	0.00E+00	0.00E+00
	SR-89		0.00E+00	2.05E-04	2.05E-04
	SR-90		0.00E+00	5.12E-05	5.12E-05
	SR-91		7.00E-06	7.51E-06	1.45E-05
	SR-92		1.83E-04	3.11E-04	4.94E-04
	NB-95		6.06E-06	1.53E-04	1.59E-04
	NB-97		2.31E-03	2.99E-03	5.29E-03
	ZR-95		0.00E+00	2.59E-05	2.59E-05
	ZR-97		1.37E-05	8.11E-06	2.18E-05
	MO-99		2.54E-04	2.24E-04	4.79E-04
	TC-99M		0.00E+00	0.00E+00	0.00E+00
	RU-103		0.00E+00	0.00E+00	0.00E+00
	RU-103M		0.00E+00	0.00E+00	0.00E+00
	RU-106		4.82E-04	6.06E-04	1.09E-03
	AG-108M		0.00E+00	0.00E+00	0.00E+00
	AG-110M		6.16E-04	7.95E-04	1.41E-03
	CD-109		0.00E+00	0.00E+00	0.00E+00
	CD-115		0.00E+00	0.00E+00	0.00E+00
	CD-115M		0.00E+00	0.00E+00	0.00E+00
	IN-115M		0.00E+00	0.00E+00	0.00E+00
	SB-122		0.00E+00	0.00E+00	0.00E+00
	SB-124		0.00E+00	0.00E+00	0.00E+00
	SB-125		2.20E-05	2.40E-05	4.59E-05
	SM-123M		0.00E+00	0.00E+00	0.00E+00
	SM-125		0.00E+00	0.00E+00	0.00E+00
	I-131		2.49E-03	1.81E-03	4.29E-03
	I-132		0.00E+00	0.00E+00	0.00E+00
	I-133		4.46E-04	4.13E-05	4.88E-04
	I-134		2.76E-04	2.18E-04	4.93E-04
	I-135		8.20E-05	0.00E+00	8.20E-05
	XE-131M		1.08E-02	2.30E-02	3.38E-02
	XE-133		9.42E-01	1.15E+00	2.09E+00
	XE-133M		8.13E-03	1.09E-02	1.90E-02
	XE-135		2.24E-03	3.85E-03	6.09E-03
	CE-134		0.00E+00	0.00E+00	0.00E+00
	CE-141		0.00E+00	0.00E+00	0.00E+00
	CE-144		3.70E-04	4.65E-04	8.35E-04
	CS-134		6.77E-03	8.24E-03	1.50E-02
	CS-135M		0.00E+00	0.00E+00	0.00E+00
	CS-136		1.19E-05	1.18E-05	2.37E-05
	CS-137		1.47E-02	1.97E-02	3.43E-02
	CS-138		0.00E+00	0.00E+00	0.00E+00
	BA-139		0.00E+00	0.00E+00	0.00E+00
	BA-LA-140		1.13E-04	2.61E-04	3.75E-04
	U-187		7.38E-05	1.09E-04	1.83E-04
	NP-239		1.50E-05	2.17E-05	3.67E-05
	B. PERCENT OF TECHNICAL SPECIFICATIONS LIMIT (15 CI) FOR TOTAL GROSS ACTIVITY RELEASED		2.26E-01	5.27E-01	7.52E-01

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 PDR ADOCK 05000269
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OCONEE NUCLEAR STATION
 RADIOACTIVE EFFLUENT RELEASES
 DATE: 09/28/83

II. AIRBORNE RELEASES

YEAR: 1983
SUBTOTAL

	<u>UNITS</u>	<u>1ST QTR</u>	<u>2ND QTR</u>	
1. TOTAL NOBLE GASES	CURIES	5.04E+03	7.49E+03	1.25E+04
2. TOTAL HALOGENS	CURIES	2.40E-02	3.63E-02	6.03E-02
3. TOTAL PARTICULATE GROSS BETA-GAMMA	CURIES	1.20E-03	1.84E-03	3.04E-03
4. TOTAL TRITIUM	CURIES	1.86E-04	9.51E+00	9.51E+00
5. TOTAL PARTICULATE GROSS ALPHA ACTIVITY	CURIES	0.00E+00	0.00E+00	0.00E+00
6. MAXIMUM NOBLE GAS RELEASE RATE	UCI/SEC	1.60E+03	1.60E+03	1.60E+03
7. PERCENT OF APPLICABLE LIMIT FOR:				
A. NOBLE GASES	%	9.88E+00	1.47E+01	2.46E+01
B. HALOGENS	%	6.32E+00	9.55E+00	1.59E+01
C. PARTICULATES	%	1.09E-01	1.67E-01	2.76E-01
8. RADIONUCLIDES RELEASED	CURIES			
PARTICULATES				
CR-51		2.63E-07	5.35E-05	5.37E-05
MN-54		1.03E-06	1.04E-06	2.07E-06
FE-59		5.49E-08	2.36E-06	2.41E-06
CO-58		1.31E-05	3.68E-04	3.81E-04
CO-60		2.70E-04	4.14E-04	6.84E-04
ZN-65		6.82E-08	3.52E-06	3.58E-06
SR-89		2.12E-09	1.90E-08	2.11E-08
SR-90		2.51E-10	4.52E-09	4.78E-09
ZR-95		5.27E-08	1.12E-06	1.17E-06

OCONEE NUCLEAR STATION
 RADIOACTIVE EFFLUENT RELEASES
 DATE: 09/28/83

II. AIRBORNE RELEASES (cont'd)

	<u>1ST QTR</u>	<u>2ND QTR</u>	<u>YEAR: 1983</u> <u>SUBTOTAL</u>
NB-95	3.07E-08	1.02E-06	1.05E-06
MO-99	2.43E-07	5.17E-05	5.20E-05
RU-103	2.98E-08	3.81E-08	6.79E-08
RU-106	2.97E-07	6.16E-05	6.19E-05
AG-110M	3.17E-08	3.90E-08	7.06E-08
SB-125	9.25E-08	6.37E-06	6.46E-06
CS-134	1.61E-04	1.15E-04	2.76E-04
CS-136	7.03E-06	3.91E-08	7.07E-06
CS-137	7.42E-04	6.97E-04	1.44E-03
BA-140	1.25E-07	2.07E-05	2.08E-05
CE-144	2.21E-07	4.36E-05	4.39E-05
 HALOGENS			
I-131	1.98E-02	2.74E-02	4.72E-02
I-133	2.58E-03	6.68E-03	9.26E-03
I-133	1.58E-03	2.19E-03	3.77E-03
 GASES			
KR-85M	7.39E+01	1.57E+00	7.55E+01
KR-85	4.85E+01	2.32E+02	2.81E+02
XE-131M	8.71E+01	9.03E+01	1.77E+02
XE-133M	1.47E+01	3.03E+01	4.49E+01
XE-133	4.82E+03	7.10E+03	1.19E+04
XE-135M	6.87E-02	0.00E+00	6.87E-02
XE-135	1.23E+00	4.66E+01	4.79E+01

1983
 Oconee Nuclear Station
 Radioactive Effluent Releases
 Solid Wastes
 1st Semi - Annual Report

Total volume of solid waste packaged (cubic feet) 21,609.8 for 1st six months of 1983.

Total estimated activity involved (curies) 2,514.73 for 1st six months of 1983. Disposal of materials shipped off-site: All 72 shipments were made to Chem Nuclear Systems waste disposal facility at Barnwell, South Carolina.

<u>Date</u>	<u>Cubic Feet</u>	<u># of Curies</u>
1/03/83	200	.898
1/04/83	200	.898
1/05/83	200	.898
1/06/83	821	1.724
1/07/83	200	.878
1/10/83	200	.878
1/14/83	200	.631
1/14/83	200	.631
1/17/83	200	.631
1/20/83	442.5	.813
1/24/83	920	2.875
1/26/83	200	.007
1/27/83	200	.010
2/01/83	200	.982
2/03/83	686	1.054
2/04/83	200	.948
2/07/83	200	.948
2/14/83	200	1.075
2/16/83	121	1.070
2/22/83	200	.914
2/23/83	882	1.066
2/25/83	200	.895
2/28/83	200	.970
3/03/83	195	40.886
3/07/83	200	.826
3/09/83	200	.013
3/09/83	200	.826
3/10/83	200	.015

<u>Date</u>	<u>Cubic Feet</u>	<u># of Curies</u>
3/10/83	784	1.192
3/14/83	200	1.058
3/15/83	200	1.058
3/16/83	200	.011
3/22/83	200	2.205
3/29/83	200	1.806
3/30/83	200	1.806
4/01/83	882	1.693
4/05/83	200	.982
4/07/83	200	.982
4/13/83	200	1.001
4/15/83	200	1.001
4/19/83	200	1.157
4/20/83	200	1.157
4/26/83	200	1.274
4/28/83	200	.016
4/28/83	882	4.265
4/29/83	200	.014
5/03/83	200	.835
5/05/83	4	897.3
5/11/83	4	598.1
5/10/83	200	.863
5/11/83	200	.284
5/15/83	4	897.3
5/16/83	200	1.373
5/20/83	200	.300
5/19/83	882	.280
5/23/83	200	2.046
5/24/83	200	1.825
5/25/83	200	.012
5/27/83	200	3.618
5/31/83	200	2.878
6/03/83	200	2.878
6/02/83	784	.229
6/06/83	200	3.145
6/07/83	200	3.145
6/13/83	200	2.665

<u>Date</u>	<u>Cubic Feet</u>	<u># of Curies</u>
6/14/83	200	2.665
6/16/83	919.1	.788
6/17/83	200	2.503
6/20/83	200	2.432
6/21/83	200	2.432
6/23/83	843.7	.576
6/30/83	753.5	2.320

DUKE POWER COMPANY
P.O. BOX 33189
CHARLOTTE, N.C. 28242

HAL B. TUCKER
VICE PRESIDENT
NUCLEAR PRODUCTION

September 29, 1983

95 OCT 3 P 2:29

~~ADOT~~
~~Charlotte~~
TELEPHONE
(704) 373-4531

~~DRP~~
10/6/83

Handwritten initials/signature

Mr. James P. O'Reilly, Regional Administrator
U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30303

Re: Oconee Nuclear Station
Docket Nos. 50-269, -270, -287

Dear Sir:

Pursuant to Oconee Nuclear Station Technical Specification 6.6.1.4 and 10 CFR §50.36a(a)(2) please find attached the First Semi-Annual Release and Solid Waste Disposal Reports for the period of January 1, 1983 to June 30, 1983. My letter of August 29, 1983 addressed the delay of this submittal.

Very truly yours,

Handwritten signature: Hal B. Tucker

Hal B. Tucker

JCP/php

Attachment

cc: Director
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Document Control Desk
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

DESIGNATED ORIGINAL
Certified By *[Signature]*

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