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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 AUTHUR AFFILIATION
 PARKER, W.O. Duke Power Co.
 RECIP. NAME RECIPIENT AFFILIATION

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

SUBJECT: "Semiannual Effluent Release & Solid Waste Disposal Rept,
 Jan-June 1981." W/810828 ltr.

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 TITLE: Periodic Environ Monitoring Rept (50 DKT)-Annual/Semiannual/Effluent/

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 OL:02/06/73
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	IE	FILE	01	1	1	NRR/DE/EEB	08		1	1	
	NRR	DL/ORAB	09	1	1	NRR/DSI/METB			2	2	
	NRR	DSI/RAB	10	1	1	RGN2/DRSS/EPRPB			1	1	
	RM	DDAMI/MIB		1	1						
EXTERNAL:	LPDR		03	1	1	NRC PDR	02		1	1	
NOTES:				1	1						

DCONEE NUCLEAR STATION
 RADIOACTIVE EFFLUENT RELEASES
 DATE : 08/19/81

I. GROSS RELEASES

	UNITS	1ST DTR	2ND DTR	YEAR : 1981 SUBTOTAL
1. GROSS RADIOACTIVITY				
A. TOTAL RELEASE	CURIES	2.78E-01	7.80E-02	3.56E-01
B. AVERAGE CONCENTRATION RELEASED	UCI/ML	1.48E-09	5.35E-10	1.07E-09
C. MAXIMUM CONCENTRATION RELEASED	UCI/ML	2.95E-08	1.84E-08	2.60E-08
2. TRITIUM				
A. TOTAL RELEASE	CURIES	6.51E+01	1.70E+02	2.35E+02
B. AVERAGE CONCENTRATION RELEASED	UCI/ML	3.47E-07	1.17E-06	7.06E-07
3. DISSOLVED NOBLE GASES				
A. TOTAL RELEASE	CURIES	1.28E+00	7.05E-01	1.98E+00
B. AVERAGE CONCENTRATION RELEASED	UCI/ML	6.82E-09	4.84E-09	5.95E-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	3.10E+07	1.39E+07	4.49E+07
6. VOLUME OF DILUTION WATER	LITERS	1.87E+11	1.46E+11	3.33E+11
7. RADIONUCLIDES RELEASED	CURIES			

F-18	0.00E+00	0.00E+00	0.00E+00
NA-24	6.47E-05	2.31E-05	8.78E-05
AR-41	1.01E-05	0.00E+00	1.01E-05
CR-51	2.72E-03	7.86E-04	3.51E-03
MN-54	6.96E-04	1.16E-04	8.12E-04
MN-56	0.00E+00	0.00E+00	0.00E+00
CO-57	1.08E-05	6.13E-05	7.22E-05
CO-58	8.45E-02	7.38E-03	9.19E-02
CO-60	5.07E-03	3.80E-03	8.87E-03
FE-59	0.00E+00	0.00E+00	0.00E+00
NI-65	0.00E+00	0.00E+00	0.00E+00
ZN-65	0.00E+00	0.00E+00	0.00E+00
KR-85	1.17E-01	6.02E-02	1.77E-01
KR-85M	3.68E-07	0.00E+00	3.68E-07
KR-87	5.50E-06	0.00E+00	5.50E-06
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	3.96E-03	2.33E-04	4.20E-03
SR-90	9.07E-04	1.22E-04	1.03E-03
SR-91	9.43E-05	1.44E-05	1.09E-04
SR-92	2.58E-04	5.60E-05	3.14E-04
NB-95	6.96E-05	7.57E-06	7.71E-05
NB-97	2.32E-03	7.79E-04	3.10E-03
ZB-95	0.00E+00	0.00E+00	0.00E+00
ZB-97	1.75E-07	0.00E+00	1.75E-07
MO-99	7.17E-04	3.52E-04	1.07E-03
TC-99M	8.73E-07	6.82E-06	7.69E-06
RU-103	3.49E-06	0.00E+00	3.49E-06
RU-103M	0.00E+00	0.00E+00	0.00E+00
RU-106	2.25E-03	7.17E-04	2.97E-03
AG-108M	2.50E-06	0.00E+00	2.50E-06
AG-110M	1.20E-03	2.87E-04	1.49E-03
CD-109	0.00E+00	0.00E+00	0.00E+00
CD-115	8.43E-05	1.33E-05	9.76E-05
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	0.00E+00	0.00E+00	0.00E+00
SM-123M	1.60E-04	9.89E-05	2.59E-04
SM-125	0.00E+00	0.00E+00	0.00E+00
I-131	0.00E+00	0.00E+00	0.00E+00
I-132	2.98E-02	1.26E-02	4.24E-02
I-133	3.87E-06	0.00E+00	3.87E-06
I-134	4.72E-04	8.46E-04	1.32E-03
I-135	2.31E-04	1.74E-04	4.05E-04
XE-131M	1.92E-05	0.00E+00	1.92E-05
XE-133	2.19E-02	5.68E-03	2.75E-02
XE-133M	1.13E+00	5.58E-01	1.69E+00
XE-135	6.00E-03	1.05E-02	1.65E-02
CE-134	6.00E-03	7.12E-02	7.72E-02
CE-141	0.00E+00	0.00E+00	0.00E+00
CE-144	0.00E+00	0.00E+00	0.00E+00
CS-134	1.17E-03	5.35E-04	1.71E-03
CS-135M	5.14E-02	1.69E-02	6.83E-02
CS-136	0.00E+00	0.00E+00	0.00E+00
CS-137	5.38E-04	7.53E-05	6.13E-04
CS-138	8.55E-02	3.05E-02	1.14E-01
BA-139	2.10E-05	2.51E-04	2.72E-04
BA-LA-140	0.00E+00	0.00E+00	0.00E+00
U-187	6.83E-04	3.41E-04	1.02E-03
NP-239	5.07E-04	2.36E-04	7.43E-04
	1.21E-04	6.45E-05	1.85E-04

B. PERCENT OF TECHNICAL SPECIFICATIONS
 LIMIT (15 CI) FOR TOTAL GROSS ACTIVITY
 RELEASED

1.85E+00 5.20E-01 2.37E+00

B504090523 810630
 PDR ADOCK 05000269
 R PDR

IBAS
 11/11

DUPLICATE RELEASE STATION
RADIOACTIVE EFFLUENT RELEASES
DATE : 08/20/81

II.	RELEASES	UNITS	1ST QTR	2ND QTR	YEAR : 1981 SUBTOTAL
1.	TOTAL NOBLE GASES	CURIES	3.84E+03	2.63E+03	6.47E+03
2.	TOTAL HALOGENS	CURIES	3.83E-02	4.07E-02	7.90E-02
3.	TOTAL PARTICULATE GROSS BETA-GAMMA	CURIES	2.31E-03	1.58E-03	3.90E-03
4.	TOTAL TRITIUM	CURIES	1.21E+01	4.01E-01	1.25E+01
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	Z	7.53E+00	5.16E+00	1.27E+01
	B. HALOGENS	Z	1.01E+00	1.07E+01	2.08E+01
	C. PARTICULATES	Z	2.10E-01	1.44E-01	3.54E-01
8.	RADIONUCLIDES RELEASED	CURIES			
	PARTICULATES				
	C-14		0.00E+00	0.00E+00	0.00E+00
	P-32		0.00E+00	0.00E+00	0.00E+00
	CR-51		2.21E-04	2.84E-05	2.49E-04
	MN-54		4.17E-04	7.07E-06	1.12E-05
	FE-55		0.00E+00	0.00E+00	0.00E+00
	FE-59		1.98E-05	1.30E-05	3.28E-05
	CO-58		1.30E-04	2.55E-05	1.56E-04
	CO-60		1.20E-04	9.19E-05	2.11E-04
	NI-63		0.00E+00	0.00E+00	0.00E+00
	ZN-65		2.36E-05	1.52E-06	2.51E-05
	RB-86		0.00E+00	0.00E+00	0.00E+00
	SR-89		1.33E-08	5.03E-09	1.83E-08
	SR-90		4.63E-10	1.17E-09	1.63E-09
	Y-91		0.00E+00	0.00E+00	0.00E+00
	ZR-95		4.68E-06	5.56E-08	4.74E-06
	NB-95		1.81E-06	8.43E-08	1.89E-06
	NO-99		1.93E-04	1.75E-05	2.11E-04
	RU-103		2.81E-07	4.12E-08	3.23E-07
	RU-106		2.36E-04	2.15E-05	2.58E-04
	AG-110M		3.62E-06	3.49E-08	3.66E-06
	CD-115M		0.00E+00	0.00E+00	0.00E+00
	SM-123		0.00E+00	0.00E+00	0.00E+00
	SM-126		0.00E+00	0.00E+00	0.00E+00
	SB-124		0.00E+00	0.00E+00	0.00E+00
	SB-125		0.00E+00	0.00E+00	0.00E+00
	TE-127M		4.06E-05	3.02E-06	4.36E-05
	TE-129M		0.00E+00	0.00E+00	0.00E+00
	CS-134		0.00E+00	0.00E+00	0.00E+00
	CS-136		2.05E-04	3.02E-04	5.06E-04
	CS-137		3.84E-08	1.97E-05	1.97E-05
	BA-140		8.66E-04	1.12E-03	1.99E-03
	CE-141		9.43E-05	6.31E-06	1.01E-04
	CE-144		0.00E+00	0.00E+00	0.00E+00
			1.49E-04	1.82E-05	1.67E-04
	HALOGENS				
	I-131		3.30E-02	3.20E-02	6.50E-02
	I-133		2.47E-03	6.13E-03	8.80E-03
	I-135		2.64E-03	2.56E-03	5.20E-03
	GASES				
	KR-83M		0.00E+00	0.00E+00	0.00E+00
	KR-85M		7.39E-01	2.48E+00	3.22E+00
	KR-85		4.45E+01	4.02E+01	8.46E+01
	KR-87		2.57E-02	1.78E-01	2.04E-01
	KR-88		5.22E-01	1.29E+00	1.81E+00
	KR-89		0.00E+00	0.00E+00	0.00E+00
	KR-90		0.00E+00	0.00E+00	0.00E+00
	XE-131M		3.97E+01	1.62E+01	5.60E+01
	XE-133M		2.38E+01	2.93E+01	5.31E+01
	XE-133		3.70E+03	2.47E+03	6.17E+03
	XE-135M		9.37E-01	5.98E-01	1.53E+00
	XE-135		3.16E+01	6.16E+01	9.32E+01
	XE-137		0.00E+00	0.00E+00	0.00E+00
	XE-138		0.00E+00	0.00E+00	0.00E+00
	AR-41		2.22E-01	5.13E+00	5.35E+00
	PARTICULATES AND IODINES				
	WITH T 1/2 > 8 DAYS		3.51E-02	3.37E-02	6.88E-02

1981

OCONEE NUCLEAR STATION
RADIOACTIVE EFFLUENT RELEASES
SOLID WASTES
1ST SEMI-ANNUAL REPORT

Total volume of solid waste packaged (cubic feet) 47,577.12 for 1st six months of 1981.

Total estimated activity involved (curies) 4,826.409 for 1st six months of 1981.

Disposal of materials shipped off-site: All 101 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>
01-02-81	840	.912
01-02-81	208	4.460
01-07-81	1,344	.017
01-08-81	810	.792
01-09-81	715.08	.041
01-12-81	208	3.920
01-12-81	1,344	.017
01-12-81	13	1.700
01-12-81	1,344	.017
01-15-81	738	1.260
01-16-81	208	2.720
01-16-81	85	85.790
01-20-81	208	3.196
01-22-81	397.5	.471
01-22-81	208	1.873
01-23-81	157.5	.021
01-26-81	208	1.460
01-28-81	208	2.470
02-02-81	112.5	26.400
02-03-81	208	1.657
02-05-81	900	.903
02-09-81	208	8.520
02-09-81	1,344	.017
02-10-81	822	.472
02-11-81	85	17.537
02-13-81	208	3.672
02-16-81	1,450	.017

<u>DATE</u>	<u>CUBIC FEET</u>	<u># OF CURIES</u>
02-17-81	208	2.930
02-18-81	864	.216
02-23-81	208	4.600
02-23-81	900	1.495
02-23-81	1,450	.017
02-25-81	208	7.566
02-27-81	85	21.960
02-26-81	1,450	.017
02-26-81	876	1.240
02-27-81	208	7.303
03-02-81	1,450	.017
03-03-81	208	3.240
03-04-81	1,450	.017
03-05-81	900	1.206
03-05-81	208	4.823
03-09-81	208	7.969
03-06-81	877	.692
03-11-81	208	5.605
03-12-81	627	2.170
03-13-81	208	7.160
03-13-81	13	8.500
03-16-81	112.5	8.457
03-20-81	1,053	1.911
03-23-81	208	3.670
03-24-81	112.5	2.720
03-25-81	208	4.602
03-26-81	471	.876
03-26-81	88	73.362
03-27-81	208	6.290
03-27-81	13	3.338
03-31-81	208	6.309
04-01-81	1,450	.017
04-01-81	1,450	.017

<u>DATE</u>	<u>CUBIC FEET</u>	<u># OF CURIES</u>
04-02-81	208	6.166
04-02-81	604.5	.275
04-06-81	208	5.800
04-08-81	208	5.714
04-09-81	652.5	.356
04-10-81	208	6.414
04-10-81	88	14.050
04-16-81	208	6.230
04-16-81	627.25	.290
04-20-81	208	4.830
04-22-81	88	1.272
04-23-81	868	1.284
04-24-81	208	3.105
04-28-81	208	2.673
04-30-81	958.7	.668
04-30-81	208	2.801
05-06-81	208	3.670
05-07-81	927	.737
05-12-81	208	5.594
05-14-81	866.5	.909
05-14-81	157.5	.574
05-18-81	208	1.919
05-18-81	112.5	26.674
05-20-81	208	1.596
05-22-81	208	2.172
05-28-81	621.44	2.851
05-28-81	208	2.683
01-01-81	208	5.224
06-03-81	208	7.690
06-05-81	874.3	.541
06-09-81	208	3.788
06-11-81	208	3.838
06-11-81	576	.497

<u>DATE</u>	<u>COBIC FEET</u>	<u># OF CURIES</u>
06-11-81	1	4,290
06-15-81	208	7.547
06-17-81	208	2.648
06-18-81	717.4	1.554
06-24-81	208	2.918
06-25-81	867	.236
06-26-81	208	3.979
06-30-81	208	16.717

DUKE POWER COMPANY
POWER BUILDING
422 SOUTH CHURCH STREET, CHARLOTTE, N. C. 28242

WILLIAM O. PARKER, JR.
VICE PRESIDENT
STEAM PRODUCTION

TELEPHONE: AREA 704
373-4083

August 28, 1981

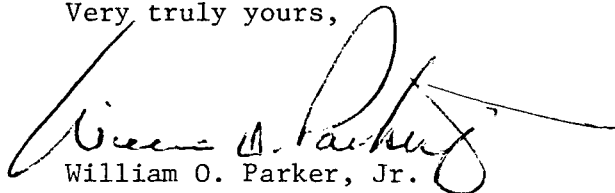
Mr. James P. O'Reilly, Director (2)
U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, Suite 3100
Atlanta, Georgia 30303

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

Dear Sir:

Pursuant to Oconee Nuclear Station Technical Specification 6.6.1.4 and 10 CFR 50, §50.36a(a)(2) please find attached the semiannual effluent release and solid waste disposal report. The report summarizes releases for the period of January 1, 1981 to June 30, 1981.

Very truly yours,



William O. Parker, Jr.

JLJ/php
Attachment

cc: Director
Office of Inspection and Enforcement (6)
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

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ECPI
C. Hasey
Franklin
FILE