Southern California Edison Company



P.O. BOX 800 2244 WALNUT GROVE AVENUE ROSEMEAD, CALIFORNIA 91770

August 15, 1979

U. S. Nuclear Regulatory Commission Region V Office of Inspection and Enforcement Suite 202, Walnut Creek Plaza 1990 North California Boulevard Walnut Creek, California 94596

Attention: Mr. R. H. Engelken, Director

Docket No. 50-206 San Onofre Unit I

Dear Sir:

Enclosed is the semi-annual report for the period January 1, 1979 to June 30, 1979, submitted in accordance with Sections 5.6.2.a and 5.6.2.b of Appendix B to Provisional Operating License DPR-13, as amended.

Sincerely,

H. L. Ottoson

Manager, Nuclear Generation

Attachments

cc: Director, Office of Nuclear Reactor Regulation (17)

bcc: H. T. Sipe, California Public Utilities Commission

Los Angeles Public Utilities Commission

J. E. Thomas, SDG&E

D. L. Couchman, NUS Corporation

Bechtel Power Corporation

Director, Nuclear Engr. & Operations Department

Dr. I. Thierer

K. P. Baskin

J. G. Haynes

W. C. Moody

P. J. West

D. E. Nunn

C. R. Kocher/J. A. Beoletto

R. S. Currie

D. G. Areghini

R. E. Millard K. HENDERSON

H. L. Ottoson

F. P. Riley

G. T. McLandrich B. KATZ

J. T. Head, Jr. R. DIETCH

A, R. Strachan

California Regional Water Quality Control Poard

J. M. Curran (15)

M. K. Sullivan

EDM Files

Power Supply Files

B.

SAN ONOFRE NUCLEAR GENERATING STATION SEMI-ANNUAL OPERATING REPORT NO. 24

FOR THE PERIOD INCLUDING

JANUARY 1, 1979 to JUNE 30, 1979

SUBMITTED IN ACCORDANCE WITH: OPERATING LICENSE NO. DPR-13

SUBMITTED BY:

SOUTHERN CALIFORNIA EDISON COMPANY
SAN DIEGO GAS & ELECTRIC COMPANY

RADIOACTIVE EFFLUENT RELEASES

Attached are tables which summarize radioactive releases from the plant for January through June, 1979. An independent laboratory performs some of the analyses. Consequently the following data will be included in a future report: liquid releases, April, May and June gross alpha, C-14, Sr-89, Sr-90, Fe-55, Ni-63 and S-35; airborne releases, April, May and June gross alpha.

Liquid Effluents

- a. Total gross radioactivity released, excluding tritium and noble gases, was 9.68 E-1 curies. The average concentration released to the unrestricted areas was 3.44 E-9 μ Ci/ml. The maximum concentration released to the unrestricted area was 1.87 E-7 μ Ci/ml.
- b. The total tritium released to the unrestricted area was 1.03 E+3 curies resulting in an average concentration of 3.67 E-6 µCi/ml.
- c. The total dissolved noble gas radioactivity released to the unrestricted area was 9.23 curies resulting in an average concentration of 3.28 E-8 μ Ci/ml.
- d. No alpha radioactivity was detected in the January through March effluent.
- e. The volume of liquid waste released was 2.79 E+7 liters. The volume of dilution water was 2.81 E+11 liters.
- f. The specific radionuclide composition of the effluent is shown in Table I.
- h. The percent of the technical specification limit for liquid releases, excepting analyses not yet completed was 1.28 E-1.

2. Airborne Effluents

- a. Total noble gas radioactivity was 1.67 E+2 curies. The maximum release rate was 4.34 E+3 μ Ci/sec. The percent of technical specification limit was 2.89 E-2. Specific radionuclide composition of noble gas releases is listed in Table II.
- b. The only detectable radioidine release occurred in June during sphere purge. The amount was 1.22 E-4 curies, and the percent of technical specification limit was 4.97 E-5.
- c. The only detectable particulate radioactivity release was in June during sphere purge. The amount was 1.59 E-5 curies and the percent of technical specification limit was 6.29 E-7. Composition of the particulate effluent is shown in Table II.

WASTE

- 1. The total amount of waste shipped was 2.95 E+3 cubic feet.
- 2. The total estimated radioactivity shipped was 9.24 E+1 curies.
- 3. The shipments were made on March 15, 20, 23, 27 and 29 to Beatty, Nevada by Southwest Nuclear Company for burial. Also a shipment was made on June 28 to Beatty, Nevada by Nuclear Engineering, Inc. and a shipment was made on June 29 to Richland, Washington by Nuclear Engineering, Inc.

MKS/yc

Facility: San Onofre Nuclear Generating Station

I. LIQUID RELEASES

Docket: 50 - 206

Year: 1979

SEMI-	ANNUAL	9.68E-1 3.44E-9 1.87E-7	1.03E+3 3.67E-6	9.23E+0 3.28E-8	d II o	2.79£±7 2.81€±)1	2.24E-1	2,8E-3 1.97E-1 3.52E-1	× 11.0 × 11.0 × 11.0		1.83E-2	< LLD 9.02E-1	< 1LD 8,23E+0	1.72E-2	3.9E-3 1.91E-2	1,60E-2	** 1.28E-1
	DEC.																
	NOV.																
	ocr.																
	SEPT.																
	AUG.													\parallel			
	JULY																
4	JUNE	8.57E-1 4.86E-10 1.87E-7	2.95E+2 7.43E-6	7.706-1	IA	7.33E+5 3.97E+10	2.24E-1	3.19E-1	IA	· IA 4.5 E-3	7.4 E-3	7.70E-1	7 3 F-3	1.41E-2	IA	.60E-2	3.38E-1
	MAY	7.93E-2 3.87E-10 3:13E-9	2.67E+2 5.35E-6	\$ LLD	VI	9.61E+6 4.99E+10	IA	5.5 E-3	IA	IA	1.09E-2				IA		2.46E-1
	APR.	3,62E-2 7,70E-10 8,09E-9	1.67E+2 3.55E-6	on v	IA TA	6.58E+6 1.44E+6 5.03E+10 4.70E+10	IA	1.7 E-3	IA	1.61E-2					IA		1.20 E-1
	MAR.	\$110 \$110 \$110	3.74E 0 7.44E-8	<110 <110 <110	ALLD STID	6.58E+6 5.03E+10	2.0 E-3.								3.9E-3 4.6E-3	1	2.63E-3
	FEB.	4.06E-2 9,15E-10 1,06E-8	2.27E+2 5.11E-6	8.44E 0	110. 110.	4.72E+6 4.44E+10		2,16E-2				1.17E-1	8.32F 0	3.1 E-3	3.5E-3		1.72E-1
	JAN.	1,51E-2 3,06E-10 5,22E-9	7.23E+1 1.47E-6	1.53E-2 3.11E-10.	4110	4.82E+6 4.72E+ 4.93E+10 4.44E+1		6.04E-3		9.1 E-3		1_53F-2			7.75-4	11	4.96E-2
	UNITS	Curies pCi/ml	Curies µCi/ml	Curies µCi/ml	Curies uCi/ml	Liters Liters Curies										:	40
I. LIQUID RELEASES	Groce Badicactivites (0.1)*	a) Total Release b) Avg. Concentration Released c) Max. Concentration Released	2. Tritium a) Total Release b) Avg. Concentration Released	3. Dissolved Noble Gases a) Total Release b) Avg. Concentration Released	4. Gross Alpha Radioactivity a) Total Release b) Avg. Concentration Released	5. Volume of liquid waste to discharge canal 6. Volume of Dilution Water 7. Isotopes Released		Fe-59 Co-58 Co-60	Zn-65 Sr-89	Sr-90 Ag-110m Sb-124	I-131 I-133	Xe-133m Xe-133	1	Cs-137,	S-35 Fe-55 Ni-63	Nb-05 7 Ru×103	8. Percent of Tech. Spec. Limit For Total Activity Released

IA=Independent Analyst

** Tentative *Without tritium and noble gases

SEM1- ANTIUAL NOV. DEC. TOTAL		1.59E-5	- < C C C C C C C C C C	4,345+3	2 89E-2 4 97E-5 6.29E-7	1.33E-5	1,225-4	2,32E-1 6,10E+1 1,35E+0 3,25E-1 1,05E-1	, 9,10£+1 5,55£-1 1,03£+0 2,44£-2
		,							
SEPT.									
AUG.			•						
JULY									
JUKE	1.34E+2 1.22E-4	1.59E-5 1.46E+1	IA.	4.34E+3	1.15E-1 2.49E-4 3.15E-6	1,33E-5 2.62E-6	1.22 E-4	1 22/10	1.25E+0 6.30E+1 2.87E-1 7.62E+0 5.40E-3
MAY	2.70E+	\$ TFD	IA	1.14E+3	2.35E-2 < LLD < LLD	< LLD	0∏7	2.5	2.41E+1 2.44E-1 2.08E+0 < LLD < LLD
APR.	3.01E 0 < 1.LD	* LLD	IA	5,07E 0	3,92E-3 < LLD < LLD	< ILD	2/1/D	2.83E-2 4.17E-2	4.41E-1
MAR.	2.05E-1 < LLD	* CLD	< LLD	1.84E 0	1.63E-4 < LLD < LLD	1113 × 1113	: 0717>	 LLD 4.02E-2 LLD LLD LLD 	 LLD 1,45E-1 1,80E-4 2,03E-2 LLD LLD
FEB.	2.87E-1 < LLD	<11.0 <11.0	<1LD	3.90 E 0	2.67E-4 < 11.0 < 11.0	« П.В.	<1.L0	2,33	 LLD 2.50 E-1 1.04E-2 2.18E-2 3.15E-3 LLD
JAN.	2,49E0 < LLD		×11.0	2.24E+2	1.93E-3 < 11.D < 11.D	\$ 11.0 -:	\$TITD	2.95E-3 7.50E-3 2.81E-3 5.77E-3	 LLD 2.36E 0 1.33E-2 7.56E-2 1.59E-2 < LLD
UNITS	Curies	Curies	Curies	μCi/sec	46 46	Curies			
II. AIRBORNE RELEASES	1. Total Moble Gases 2. Total Malogens 3. Total Particulate Green		5. Joral Farticulate Gross Alpha Radioactivity	6. Max. Noble Gas Release Rate	7. Percent of Applicable Limit For: a. Noble Gases b. Halogens c. Particulates	8. Isotope Released: Particulates Co-58 Co-60	Halogens I-131 I-133 I-135	Gases Ar-41 Kr-85 Kr-85 Kr-85m Kr-87 Kr-87	Xe-131m Xe-133 Xe-133m Xe-135m Xe-135m

SEMI-	SEPT. OCT. NOV. DEC. TOTAL	2.95E+3	9.24E+1																8		,						
	AUG.											-									27		1				
	JULY																								-		
	JUNE	2.6E+3	3.8E-1			é)										,			1947				:				
	ray	0	0																-								
/G	APR.	0	0																								
	MAR.	3.5E+2	9.2E+1							4											e.						
	FEB.	0	0		•																		·				
	JAN.	0	0																								
	UNITS	Ft ³	Curies					pa N		Nevada						Nev. , Wa.					*						
III. SOLID WASTE		Total Solid Waste pkged.	2. Total est. Radioactivity	Disposition if shipped Offsite.	JANUARY	NONE	FEBRUARY	NONE	WARCH, 15 B.	3/15, 3/20, 3/23, 3/27, 3/29 all to Beatty, Nevada	4PRIL	NONE	MAY	NONE ·	JUNE	6/28, Nuc. Engr. Beatty, Nev. 6/29, Nuc. Engr. Richland, Wa.	JULY	AUGUST		SEPTEMBER	•	OCTOBER		NOVEMBER		DECEMBER	

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Southern California Edison Company



P. O. BOX 800 2244 WALNUT GROVE AVENUE ROSEMEAD, CALIFORNIA 91770

February 22, 1980

U. S. Nuclear Regulatory Commission Region V Office of Inspection and Enforcement Walnut Creek Plaza, Suite 202 1990 North California Boulevard Walnut Creek, CA 94596

Attention: Mr. R. H. Engelken, Director

Docket No. 50-206 San Onofre Unit 1

Dear Sir:

Enclosed is the semi-annual report for the period July 1, 1979 to December 31, 1979 in accordance with Sections 5.6.2.a and 5.6.2.b of Appendix B to Provisional Operating License No. DPR-13, as amended. All of the yearly data is contained and totalled in this report.

Sincerely,

H. L. Ottoson

Manager, Nuclear Generation

DDD/yc

Attachment

cc: Director, Office of Inspection and Enforcement (17)
Director, Office of Management Information and Program Control (2)

bcc: H. T. Sipe, California Public Utilities Commission Los Angeles Public Utilities Commission

D. W. Gitman, San Diego Gas and Electric Company

D. L. Couchman, NUS Corporation

Bechtel Power Corporation

Director, Nuclear Engr. & Operations Dept., Electric Power Research Institute California Regional Water Quality Control Board

I. Thierer

K. P. Baskin

J. G. Haynes

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C. R. Kocher/J. A. Beoletto

R. Dietch

R. S. Currie

H. L. Ottoson

J. M. Curran

E. J. Donovan

B. Katz

K. B. Henderson
F. P. Riley
M. K. Sullivan

D. D. Duran

EDM Center

SAN ONOFRE NUCLEAR GENERATING STATION SEMI-ANNUAL OPERATING REPORT NO. 25

FOR THE PERIOD INCLUDING

JULY 1, 1979 TO DECEMBER 31, 1979

SUBMITTED IN ACCORDANCE WITH: OPERATING LICENSE NO. DPR-13

SUBMITTED BY:

SOUTHERN CALIFORNIA EDISON COMPANY

SAN DIEGO GAS & ELECTRIC COMPANY

RADIOACTIVE EFFLUENT RELEASES

Attached are tables which summarize radioactive releases from the plant. An independent laboratory performs some of the analyses on monthly composite samples. As a consequence, the November and December data do not contain strontium 89 or 90. These data will be included in a future report as they become available.

Gaseous Effluents

- a. Gross Radioactivity Releases
 - (1) Total gross radioactivity releases were 6.32 E+2 curies. In addition 2.81 E+1 curies of tritium were released.
 - (2) The maximum gross radioactivity release rate for a one hour period was 4.69 E+3 µCi/sec.
 - (3) Total gross radioactivity data by nuclide released are shown in Table II.
 - (4) The percent of the technical specification limit for noble gases is 3.79 E-2 percent.

b. Iodine Releases

- (1) Total Iodine radioactivity released during this reporting period was 1.22 E-4 curies of Iodine-131.
- (2) This represented 2.03 E-5 percent of the technical specification limit.

c. Particulate Releases

- (1) Particulate radioactivity released during this reporting period was 2.09 E-5 curies.
- (2) Gross alpha releases excluding background radioactivity were less than LLD.
- (3) Total gross radioactivity of nuclides with half lives greater than eight days was 2.09 E-5 curies.
- (4) The percent of the technical specification limit for particulate radioactivity with half lives greater than eight days was 5.30 E-7.

2. Liquid Effluents

- a. Total gross radioactivity released, excluding tritium and noble gases, was 1.10 E+1 curies. The average concentration released to unrestricted areas was 1.86 E-8 μ Ci/ml.
- b. The maximum concentration of gross radioactivity released to the unrestricted area was 1.69 E-6 μCi/ml.
- c. The total tritium released to the unrestricted area was 2.32 E+3 curies. The average tritium concentration released to the unrestricted area was 3.93 E-6 Ci/ml. Alpha radio-activity released to the unrestricted area was 1.24 E-4 curies. The average alpha concentration was 2.10 E-13 μ Ci/ml.
- d. The total dissolved gas radioactivity released to the unrestricted area was 1.81 E+1 curies. This quantity yielded an average concentration of 3.07 E-8 μ Ci/ml released to the unrestricted area.
- e. The volume of liquid waste released was 3.41 E+7 liters.
- f. The total volume of dilution water was 5.90 E+11 liters.
- g. Total gross radioactivity by nuclide is shown in Table I.
- h. The percent of the technical specification limit for liquid releases is 2.92 E-1.

SOLID WASTE

- 1. Total amount of solid waste shipped was 2.95 E+3 cubic feet.
- 2. The total estimated radioactivity involved in the above shipments was 9.24 E+1 curies.
- 3. The shipments were made on March 15, 20, 23, 27 and 29 to Beatty, Nevada by Southwest Nuclear co. for burial. Also a shipment was made on June 28 to Beatty, Nevada by Nuclear Engineering, Inc., and a shipment was made on June 29 to Richland, Washington by Nuclear Engineering, Inc.

Min Jus

PAGE 3

ADDITIONS

Table II, Airborne Releases, of Semi-Annual Operating Report No. 23 should be updated to indicate total tritium released for 1978 is 5.75 E-1 curies.

Table I, Liquid Releases of Semi-Annual Operating Report No. 24 should be updated to include the revised data for the January-June period resulting from the additional gross alpha, C-14, Sr-89, Sr-90, Fe-55, Ni-63 and S-35 data.

Table II, Airborne Releases of Semi-Annual Operating Report No. 24 should be updated to include the revised data for the January-June period resulting from the additional gross alpha, Sr-89 and Sr-90 data.

DDD/yc

Docket: 50 - 206

Year: 1979

For Total Activity Released	77 -	Fe-55 N1-63	Ba-140	Cs-134	Xe-135m Xe-135	Tc-99m Xe-133	I-133	Sb-124 I-131	Sr-90 Ag-110m	Sr-89.	CO-60	Fe-59	Mn-54	Cr-51	Isotopes Released	5. Volume of liquid waste to discharge canal 6. Volume of Dilution Water	b) Avg. Concentration Keleased	 4. Gross Alpha Radioactivity a) Total Release 		3 Dissolved Noble Gases	 Tritium a) Total Release b) Avg. Concentration Released 		a) Total Release b) Avg. Concentration Released		I. LIQUID RELEASES	Facility: San Undire Muclear Gene
46															₩	Liters	hCT/mT	Curies	Curies µCi/ml		Curies µCi/ml	hCT/WT	1 1	STINU		Generaling Scarton
4.97E-2		1.11E-2 7.7E-4				1 53F-2			9.1 E-3			6.04F-3				4.82E+6 4.93F+10	\$HD	VIII)	1.53E-2 3.11E-10		7. 23E+1 1. 47E-6	5.221-9	2.70E-2 3.48E-10	JAN.	34	GLIOI
1.72E-1		3.5E-3 3.9E-3	3.1 1:-3	3	8 32F 0	1. 17E-1					1.59E-2	2.16E-2				4.72E+6 4.44E+10	\$HII	ÉIII)	8.44E 0 1.90E-7		2.27E+2 5.11E-6	8-390°	4.80E-2 1.08E-9	FEB.		
2.50E-3		4.6E-3	3 QF_3											2.0 E-3.		6.58E+6 5.03E+10	\$HID	\$LLD	< <u>\LD</u>		3.74E 0 7.44E-8	/1.33E-10	1.05E-2- 1.33E-10	MAR.	9	DOCKEL
1.21E-1		6.48E-3 1.56E-3							1.6JE-2		1.84E-2		1,7 E-3			1.44E+6 4.70E+10	\LLU	<lld< td=""><td>-<pre>-<pre><pre></pre></pre></pre></td><td></td><td>1.67E+2 3.55E-6</td><td>8-150 B</td><td></td><td>APR.</td><td></td><td>100</td></lld<>	- <pre>-<pre><pre></pre></pre></pre>		1.67E+2 3.55E-6	8-150 B		APR.		100
2.62E-1		6.25E-3						1.09E-2	6.73E-4	1.63E-2	2.8 E-3	5.5 E-3				9.61E+6 4.99E+10	7.00	Ê	- ALLD		2.67E+2 5.35E-6	3:135-9	4.25E-2 8.37E-10	MAY		200
3.39E-1	1.60E-2 1.36E-2	2.11E-1		7.3 E-3		7.70E-1		7.4 E-3	4.5 E-3		5.30E-2		1.1 E-3	2.24E-1		7.33E+5 3.97E+10	1.626.11	5.13E-5	7.70E-1 1.94E-8		2,95E+2 7,43E-6	1.0/1-/		JUNE	<u></u>	£
4.33E-2		8.60E-3		3.50E-3							6_93E-3	5.78F-2				2 -	Luc William I	6.88E-6	Î Î		6.09E+1 1.22E+6	1,3/5-0	7.68E-2 1.54E-9	JULY	*	
6.28E-2		1.03E-2 5.		6.70E-3 2.64E-4							2.92F-2	7.17F-2	4.77E-3			3.04E+5 04.99E+10			\$11D \$11D		8.43E+1 1.69E-6	1 0-1/6-0	.68E-2 1.36E-1 .54E-9 2.7ZE-9	AUG.	,	
5.04E-1		5.19E-2		2.64E-4 2 12F-3		2-101-6	2 155 2		, J.L.	<11D	3.71E-1	7.10E+0	-			1.72E+5 3.04E+5 4.69E+5 1.99E+104.99E+10 4.77E+10	1 1	2.26E-5 4.74E-13	^ ALD		4.48E+2 9.39E-6	1.074	7.60E+0 1.59E-7	SEPT.		
1.76E-1		2.37E-5		3. 29F-3				1.69E-4	\ \LU	^ LLD	9.70E-2	1.36E+0			T	3.53E+5 5.03E+10		2.82E-5 5.61F-13	ÊÊ		2.08E+2 4.14E-6	1	1.46E+0 2.90E-8	OCT.		
3.31E-1		5.66E-2	-		9.77E-1	7.91E+0		6.62E-3	10	IA	8.82E-2	1						1.51E-5 3.13E-13	8.89E+0 1.84e-7		3.92E+2 8.12E-6	0.5	4.69E-1 9.7ZE-9	NOV.		٠.
6.92E-2		1,13E-3		1.04E-3 5:33E-3				8.84E-5	5	IA	1	1.80E=2	1.02E-4			6.65E+5 1.74E+5 2.79E+7 4.83E+104.86E+102.81E+11		^ ^	Ê		9.77E+1 2.01E-6		3.19E-2 5.57E-10 5.05E-8	DEC.		
1.52E-1	1.36E-2	2.43E-1 6.23E-3	< LLD 3.9E-3	7.3E-3 1.72E-2	8. 23E+0	9.02E-1	V LLD	1.83E-2	2.97E-2	1.63E-2	< LLD	3.52E-1	2.8E-3	2.24E-1	2 OF -3	2.79E+7 72.81E+11		^ A B	9. 23E+9 3. 28E-8	6.84	1.03E+3 3.67E-6	1 1	1.24E+0 4.41E-9 1.87E-7	TOTAL	SEMI-	
2.92E-1*1	1.35E-2	3.72E-1 6.23E-3	< LLD	4.67E-2	9.30E+0	8.81E+0.	3 15F_2	2.52E-2	2.97E-2	1.63E-2**	2 LED - 1	9.27E+0	7.92E-3	2.24E-1	2.0E-3	3.41E+7 5.90E+11		1.24E-4 2.10E-13	3.07E-8	200	2.32E+3 3.93E-6		1.10E+1 1.86E-8	TOTAL	ANNUAL	

IA=Independent Analyst

*Without tritium and noble gases

** Tentative

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	AIRE
	BORNE
	RELEASES

				7.	6. 5. 3.2.1
 Kr-87 Kr-88 Xe-131m Xe-133m Xe-133m	Gases Ar-41 Kr-85 Kr-85m	Halogens I-131 I-133 I-135	Isotope Released: Particulates Co-58 Co-60 Sr-89 Sr-90	Percent of Applicable Limit For: a. Noble Gases b. Halogens c. Particulates	Total Moble Gases Total Halogens Total Particulate Gross Radioactivity (\$,\gamma\$) Total Tritium Total Particulate Gross Alpha Radioactivity Max. Noble Gas Release Fate
					(D)

			S.																•					-							
															,				Curies	op.	96	dР		μCi/sec	Curies	cmrea	Curies	Curies	Curies	STIND	
< LLD	1.59E-2	7.56E-2	1.33E-2	. 2.36E 0	< LLD	5.77E-3	2.81E-3	7.50E-3	2.951-3	< LL0			, VELD		< 110	< LLD		ALL A		\$11D	< LLD	1.93E-3		. 2.24E+2	< LLD	, LLD	< LLD	<ttd< td=""><td>. 2.49E0</td><td>JAN.</td><td></td></ttd<>	. 2.49E0	JAN.	
_	ω	-		2	٨	< LLD	< LLD	2.39E-3	110	< LLD			, 1	4	< LLD	< LLD		\$ LLD		\$110	< LLD	2.67E-4		3.90 E 0	< LLD	V 177	^HD	<lld< td=""><td>2.87E-</td><td>FEB.</td><td></td></lld<>	2.87E-	FEB.	
411 ×	< LLD	2.03E-2	1.80E-4	1.45E-1	< LLD	< 110	< LLD	< 110	4.02E-2	< LLD			. LLD .	<u> </u>	< LLU	< LLD		\$ LLD		< LLD	< LLD	1.63E-4		1.84E	< LLD	< PTD	< LLD	<lld< td=""><td>2.05E-</td><td>MAR.</td><td></td></lld<>	2.05E-	MAR.	
< TTD	< LLD	4.41E-1	< LLD	1.10E 0	< LLD	4.17E-2	2.83E-2	-	9.61E-1				\LLU		< LLD	< LLD		S LLD			< EB	3.92E-3		5.07E 0	IA	< LLD		< LLD	1 3.01E 0	APR.	
< LLD .	< LLD	2,08E+0	2,44E-1	2,41E+1	< LLD	2.03E-1	9.35E-2	1.76E-1	1.43E-1	5.62E-3			\LLU	2	<lld< td=""><td><lld< td=""><td></td><td>\$ LLD</td><td></td><td>1000</td><td>_</td><td>2.35E-2</td><td></td><td>1.14E+3</td><td>IA</td><td>< LLD</td><td></td><td>< LLD</td><td>2.70E+1</td><td>MAY</td><td></td></lld<></td></lld<>	<lld< td=""><td></td><td>\$ LLD</td><td></td><td>1000</td><td>_</td><td>2.35E-2</td><td></td><td>1.14E+3</td><td>IA</td><td>< LLD</td><td></td><td>< LLD</td><td>2.70E+1</td><td>MAY</td><td></td></lld<>		\$ LLD		1000	_	2.35E-2		1.14E+3	IA	< LLD		< LLD	2.70E+1	MAY	
< LLD	5.40E-3	7.62E+0	2.87E-1	6.30E+1	1.25E+0	8.01E-1	-	1	5.99E+1	-			1.22 E-4		< LLD	^ ED	2.62E-6	1 335-5		3,15E-6	2.49E-4	1.15E-1		4.34E+3	^ LLD	1.406.1	1.59E-5	1.22E-4	1.34E+2	JUKE	
< LLD	< LLD	4.10E-1	1.27E-1	1.10E+1	< LLD	1.82-2	3.64E-3	3.10E-2	5.291-1	< 1.10			\$ 4E0	1 1	^ LLD	^ LD		< LLD		< LLD	< LLD	8.79E-3		2.35E+2	-₹LD	, LLD		< LLD	1.21E+1	JULY	
< LLD	< LLD	1.10E-1	1.20E-1	1.15E+1	< LLD	< LLD	^	2.10E-3	< LLD	Á.D			< 1.10	1 1	< LLD	^ LD	1.52E-6			1.00E-6	< LLD	7.89E-3		1.09E+3	< LLD	, LLD		410	1.17E+1	AUG.	
< 11D	< LLD	2,93E+0	4.91E-1	3.29E+2	1.47E+0	9,43E-1	1.99E-1	7.69E-1	< LLD	3.40E-1			< 11D	-1 1	< LLD	^ IIID	1.34E-6			9.13E-7	< LLD	2.46E-1		4.69E+3	< LLD	0.345.0	1.34E-6	4LD	3.43E+2	SEPT.	
< LLD		5.13E-3	11.11E-2	1.06E+0		1 4	< 110	2.17F-4	< LLD	∧ ILD			< LLD		\$ LLD		2.07E-6			1.36E-6	< LLD	7.18E-4		4.45E+1	<lld< td=""><td>140</td><td>2.0</td><td><-TTD</td><td>1.07E+0</td><td>OCT.</td><td></td></lld<>	140	2.0	<-TTD	1.07E+0	OCT.	
< LLD	< LLD	5.44E-1	6.07E-1	. 1	< TTD		Z IID	. S IID∵	< LLD	S HD			< 1.LD		IA	IA		^ ILD		< 11.D	< LLD	4.68E-2		2.06E+3	< 11.D	0.01570	× 110	< LLD	6.78E+1	NOV.	
<lld< td=""><td><lld< td=""><td>4.88F-2</td><td>6.91F-2</td><td>7.41E+0</td><td>< LLD</td><td>_</td><td></td><td></td><td>< LLD</td><td>s LLD</td><td></td><td></td><td>< LD</td><td></td><td>IA</td><td>IA</td><td></td><td>< 110</td><td></td><td></td><td>< 1.10</td><td>5.03E-3</td><td></td><td>4.34E+3</td><td>< LLD</td><td>< LLD\.50</td><td>10</td><td>× 110 414</td><td>7.53E+0</td><td>DEC.</td><td></td></lld<></td></lld<>	<lld< td=""><td>4.88F-2</td><td>6.91F-2</td><td>7.41E+0</td><td>< LLD</td><td>_</td><td></td><td></td><td>< LLD</td><td>s LLD</td><td></td><td></td><td>< LD</td><td></td><td>IA</td><td>IA</td><td></td><td>< 110</td><td></td><td></td><td>< 1.10</td><td>5.03E-3</td><td></td><td>4.34E+3</td><td>< LLD</td><td>< LLD\.50</td><td>10</td><td>× 110 414</td><td>7.53E+0</td><td>DEC.</td><td></td></lld<>	4.88F-2	6.91F-2	7.41E+0	< LLD	_			< LLD	s LLD			< L D		IA	IA		< 110			< 1.10	5.03E-3		4.34E+3	< LLD	< LLD\.50	10	× 110 414	7.53E+0	DEC.	
· <lld< td=""><td>2.44E-2</td><td>1 03F+0</td><td>5 55F-1</td><td>9 10F+1</td><td>1.25F+0</td><td>1.05F-1</td><td>3.25E-1</td><td>1.35E+0</td><td>6.10E+1</td><td>7.32E-1</td><td></td><td>A STATE OF THE PARTY OF THE PAR</td><td>1.22E-4</td><td></td><td>THE</td><td>< 11.0</td><td>2.62E-6</td><td>1 300 1</td><td></td><td>6.29E-7</td><td>4.97E-5</td><td>2 89E-2</td><td>· · · · · · · · · · · · · · · · · · ·</td><td>4.34E+3</td><td><lld< td=""><td>- 1-10FF</td><td>31.59E-5</td><td>5]22E-4</td><td>1.67E+2</td><td>DEC. TOTAL</td><td>NAME OF THE PARTY OF THE PARTY</td></lld<></td></lld<>	2.44E-2	1 03F+0	5 55F-1	9 10F+1	1.25F+0	1.05F-1	3.25E-1	1.35E+0	6.10E+1	7.32E-1		A STATE OF THE PARTY OF THE PAR	1.22E-4		THE	< 11.0	2.62E-6	1 300 1		6.29E-7	4.97E-5	2 89E-2	· · · · · · · · · · · · · · · · · · ·	4.34E+3	<lld< td=""><td>- 1-10FF</td><td>31.59E-5</td><td>5]22E-4</td><td>1.67E+2</td><td>DEC. TOTAL</td><td>NAME OF THE PARTY OF THE PARTY</td></lld<>	- 1-10FF	31.59E-5	5]22E-4	1.67E+2	DEC. TOTAL	NAME OF THE PARTY
< LLD	2.44F-2	1 435+1	1 985+0	5 175+2	2.72F+0	2.26F+0	5.03E	2.37E+0	6.15E+1	1.07E+0	4		1.22E-4		< LLD	< LLD	7.55E-6	3 300 1		5.30E-7		3.79E-2		4.69E+3	< LLD	2.81E+1	2.09E-5	1.22E-4	6.32E+2	1	

III. SOLID WASTE														ANNUAL
	STINU	JAN.	FEB.	MAR.	APR.	HAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
Total Solid Waste pkged.	Ft3	0	0	3.5E+2	0	0	2.6E+3	0	0	0	0	0	0	2.95 E+3
2. Total est. Radioactivity	Curies	0	0	9.2E+1	0	0	3.8E-1	0	0	0	0	0	0	9.24 E+1
Disposition if shipped Offsite.														
JANUARY														
NONE			*											
FEBRUARY														
NONE														
MARCH 3/15, 3/20, 3/23, 3/27 3/29 all to Beatty.	Nevada													
APRIL														
NONE														
MAY														
NONE .														
6/28, Nuc. Engr. Beatty, Nev. 6/29, Nuc. Engr. Richland, Wa.	Nev. d, Wa.													
NONE														
AUGUST														
NONE														
SEPTEMBER														
NONE												`		
OCTOBER														
NONE														
NONE NOVEMBER														
NONE NOVEMBER NONE	44				-						THE WASHINGTON			
NOVEMBER NOVEMBER NONE DECEMBER									-			The second second second		