

APPROVED

APR 28 1990

B.O.S.F.

U-1 DOCKET NUMBER STN 50-854

BYRON NUCLEAR POWER STATION

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT FOR JULY-DEC. 1990

GASEOUS EFFLUENTS - VENT STACK RELEASES - Batch Mode

BRP 1100-17

Revision 0

ISOTOPE RELEASED	UNITS	1st QUARTER	OCT	NOV	DEC	4th QUARTER
------------------	-------	-------------	-----	-----	-----	-------------

1. Particulate (> 8 day half-life) Releases

Mn-54	9105220132					
Fe-55	2070 DR					
Fe-59	ADDOCK					
Co-58	050004					
Co-60	PDR					
Sr-89						
Sr-90						
Y-88						
Ru-103						
Ag-110m						
Cs-134						
Cs-136						
Cs-137						
Ba/La-140						
Ce-144						
Others (Specify)						

N/A - Analysis Not Required.

ISOPTOPES RELEASED	UNITS	1st QUARTER	OCT	NOV	DEC	4th QUARTER
H. Particulate (> 8 day half-life) Releases						
Mn-54	Ci					
Fe-55						
Fe-59						
Co-58						
Co-60						
Sr-90						
Y-90						
Y-88						
Ru-103						
Ru-110m						
Cs-134						
Cs-136						
Cs-137						
Ba/La-140						
Ce-144						
Others (Specify)						
Note 1 - Value reported as gaseous Effluents-Vent Stack Releases - Batch Mode.						

APPROVED

APR 28 1980

B.O.S.F.

U-1 DOCKET NUMBER 50-454
BYRON NUCLEAR POWER STATION

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT FOR JULY-DEC 1990
LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES - Batch Mode

Fission and Activation Products										UNITS	3rd QUARTER			NOV	DEC	4th QUARTER
1. Total Activity Released										Ci						6.4E-2
2. Average Concentration Released										uCi/m						
3. % of 10CFR50 Limits																
a. Quarterly Whole Body (1.5 mrem)										%						
b. Quarterly Any Organ (5.0 mrem)										%						
c. Annual Whole Body (3.0 mrem)										%						
d. Annual Any Organ (10.0 mrem)										%						
J. Tritium																
1. Total Activity Released										Ci						
2. Average Concentration Released										uCi/m						
3. % of Limit (3E-3 uCi/m)										%						
K. Dissolved Noble Gases																
1. Total Activity Released										Ci						
2. Average Concentration Released										uCi/ml						
3. % of Limit (2E-4 uCi/ml)										%						
L. Gross Alpha																
1. Total Activity Released										Ci						
2. Average Concentration Released										uCi/ml						
M. Volume of Liquid Waste to Discharge										liters						
N. Volume of Dilution Water										liters						

APPROVED

APR 28 1986

B.O.S.F.

U-1 DOCKET NUMBER STN 50-454

BYRON NUCLEAR POWER STATION

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT FOR JULY-DEC 1990

LIQUID EFFLUENTS -Batch Mode

Revision 0

ISOTOPE RELEASES

1. Liquid Effluents

	UNITS	13rd QUARTER	OCT	NOV	DEC	14th QUARTER
Sr-89	Ci		N/A	N/A	N/A	<1.5E-9
Sr-90			N/A	N/A	N/A	<1.3E-9
Co-58						
Co-60						
Cs-134						
Cs-136						
Cs-137						
I-131						
I-133						
Ba/La-140						
Xe-133						
Xe-135						
Others (Specify)						
Fe-55			N/A	N/A	N/A	3.6E-3

APPROVED

APR 28 1980

B. O. S. P.

U-1 DOCKET NUMBER STN 50-454
BYRON NUCLEAR POWER STATION

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT FOR JULY-DEC 1990

LIQUID EFFLUENTS - Continuous Mode

BRP 1100-17
Revision 0

ISOTOPE RELEASES		UNITS	3rd QUARTER			OCT	NOV	DEC	14th QUARTER
0. Liquid Effluents									
		Ci				N/A	N/A	N/A	Note 2
Sr-89						N/A	N/A	N/A	Note 2
Sr-90									
Co-58									
Co-60									
Cs-134									
Cs-136									
Cs-137									
I-131									
I-133									
Ba/La-140									
Xe-133									
Xe-135									
Others (Specify)									
Note 2 - Value reported as Liquid Effluents-Batch Mode.									

Others (Specify)

Others (Specify)

U-2 DOCKET NUMBER STN 50-455
BYRON NUCLEAR POWER STATION
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT FOR JULY-DEC 1990
LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

APPROVED
APR 28 1991
B.O.S.F.

		UNITS	1st QUARTER	2nd QUARTER	3rd QUARTER	OCT	NOV	DEC	14th QUARTER
I. Fission and Activation Products									
1. Total Activity Released		Ci							
2. Average Concentration Released		uCi/ml							
3. % of 10CFR50 Limits		%							6.4E-2
a. Quarterly Whole Body (1.5 mrem)		%							
b. Quarterly Any Organ (5.0 mrem)		%							
c. Annual Whole Body (3.0 mrem)		%							
d. Annual Any Organ (10.0 mrem)		%							
J. Tritium									
1. Total Activity Released		Ci							
2. Average Concentration Released		uCi/ml							
3. % of Limit (3E-3 uCi/ml)		%							
K. Dissolved Noble Gasses									
1. Total Activity Released		Ci							
2. Average Concentration Released		uCi/ml							
3. % of Limit (2E-4 uCi/ml)		%							
L. Gross Alpha									
1. Total Activity Released		Ci							
2. Average Concentration Released		uCi/ml							
M. Volume of Liquid Waste to Discharge									
		liters							
N. Volume of Dilution Water									
		liters							

APPROVED

APR 28 1980

B.O.S.P.

U-2 DOCKET NUMBER STN 50-455

BYRON NUCLEAR POWER STATION

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT FOR JULY-DEC 1990

LIQUID EFFLUENTS -Batch

BRP 1100-17

Revision 0

ISOTOPE RELEASES		UNITS	3rd QUARTER				OCT	NOV	DEC	4th QUARTER
Liquid Effluents										
Sr-89	Ci						N/A	N/A	N/A	<1.5E-9
Sr-90							N/A	N/A	N/A	<1.3E-9
Co-58										
Co-60										
Cs-134										
Cs-136										
Cs-137										
I-131										
I-133										
Ba/La-140										
Xe-133										
Xe-135										
Others (Specify)										
Fe-55							N/A	N/A	N/A	3.6E-3

APPROVED
 APR 29 1980
 B.O.S.F.

U-2 DOCKET NUMBER STM 50-455
 BYRON NUCLEAR POWER STATION
 EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT FOR JULY-DEC 1990
 LIQUID EFFLUENTS -Continuous Mode

BRP 1100-17
 Revision 0

ISOTOPE RELEASES		UNITS	3rd QUARTER			OCT	NOV	DEC	4th QUARTER
Liquid Effluents									
Sr-89	Ci					N/A	N/A	N/A	Note 2
Sr-90						N/A	N/A	N/A	Note 2
Co-58									
Co-60									
Cs-134									
Cs-136									
Cs-137									
I-131									
I-132									
Ba/La-140									
Xe-133									
Xe-135									
Others (Specify)									

Note 2 - Value Reported as Liquid Effluents-
 Batch Mode.