

STATIONS SEMI-ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

DISTRIBUTION LIST

Director of Nuclear Reactor Regulation - U.S. Nuclear
Regulatory Commission

Nuclear Regulatory Commission, Region III

Illinois Department of Nuclear Safety, Office of Nuclear
Facility Safety

A.N.I.

American Electric Power Service Corporation, Nuclear
Operations Division

U.S. Environmental Protection Agency Air and Radiation
Branch - Region V Health Physicist

Illinois Environmental Protection Agency - Region III

Illinois Environmental Protection Agency Division of Water
Pollution Control Environmental Protection Specialist

Murray and Trettel, Inc.

Teledyne Isotopes Midwest Laboratory and General Manager

Emergency Preparedness - Chemistry Services Director

Station Manager - Byron Nuclear Power Station

Health Physics Services Supervisor - Byron Nuclear Power Station

Radiological Effluent Monitoring Program Coordinator

NRC Resident Inspector - Byron Nuclear Power Station

B.P.I. Associates General Counsel

Illini State Park Site Superintendent

Nuclear Quality Programs & Assessments - General Manager

(3635z/VS)

9303300029 930324
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R PDR

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APR 28 1990

B.O.S.P.

Unit 1 Docket Number STN 50-454

BYRON NUCLEAR POWER STATION

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT FOR July - December, 1992

GASEOUS EFFLUENTS - VENT STACK RELEASES - Continuous Mode

ISOTOPES RELEASED	UNITS	JUL	AUG	SEP	3rd QUARTER	OCT	NOV	DEC	14th QUARTER
H. Particulate (> 8 day half-life) Releases									
Mn-54	Ci								
Fe-55									
Fe-59									
Co-58									
Co-60									
Sr-89						N/A	N/A	N/A	<LLD
Sr-90						N/A	N/A	N/A	<LLD
Y-88									
Ru-103									
Ag-110m									
Cs-134									
Cs-136									
Cs-137									
Ba/La-140									
Ce-144									
Others (Specify)									

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Unit 2 Docket Number STN 50-455

BYRON NUCLEAR POWER STATION

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT FOR July - December, 1992

GASEOUS EFFLUENTS - VENT STACK RELEASES - Continuous Mode

ISOTOPE RELEASED	UNITS	JUL	AUG	SEP	3rd QUARTER	OCT	NOV	DEC	4th QUARTER
H. Particulate (> 8 day half-life) Releases									
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Fe-55									
Fe-59									
Co-58									
Co-60									
Sr-89						N/A	N/A	N/A	<LLD
Sr-90						N/A	N/A	N/A	<LLD
Y-88									
Ru-103									
Ag-110m									
Cs-134									
Cs-136									
Cs-137									
Ba/La-140									
Ce-144									
Others (Specify)									

Unit 1 Docket Number STN 50-454
BYRON NUCLEAR POWER STATIONEFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT FOR July - December, 1992
LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

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	UNITS	JUL	AUG	SEP	3rd QUARTER	OCT	NOV	DEC	4th QUARTER
I. Fission and Activation Products									
1. Total Activity Released	Cl								1.78E0
2. Average Concentration Released	uCi/m								6.50E-7
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	Cl								
2. Average Concentration Released	uCi/m								
3. % of Limit (3E-3 uCi/m)	%								
K. Dissolved Noble Gases									
1. Total Activity Released	Cl								
2. Average Concentration Released	uCi/m								
3. % of Limit (2E-4 uCi/m)	%								
L. Gross Alpha									
1. Total Activity Released	Cl								
2. Average Concentration Released	uCi/m								
M. Volume of Liquid Waste to Discharge									
	liters								
N. Volume of Dilution Water									
	liters								

Unit 2 Docket Number STN 50-455

BYRON NUCLEAR POWER STATION

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT FOR July - December, 1992
LIQUID EFFLUENTS - SUMMARY OF ALL RELEASES

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	UNITS	JUL	AUG	SEP	3rd QUARTER	OCT	NOV	DEC	14th QUARTER
I. Fission and Activation Products									
1. Total Activity Released	Ci uCi/m								1.78EO
2. Average Concentration Released									6.50E-7
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a. Quarterly Whole Body (1.5 mrem)	%								
b. Quarterly Any Organ (5.0 mrem)	%								
c. Annual Whole Body (3.0 mrem)	%								
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1. Total Activity Released	Ci uCi/m								
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1. Total Activity Released	Ci uCi/m								
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L. Gross Alpha									
1. Total Activity Released	Ci uCi/m								
2. Average Concentration Released									
M. Volume of Liquid Waste to Discharge	liters								
N. Volume of Dilution Water	liters								

1.78E0
6.50E-7

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BYRON NUCLEAR POWER STATION

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT FOR July - December, 1992

LIQUID EFFLUENTS - Batch Mode

ISOTOPE RELEASES		UNITS	JUL	AUG	SEP	3rd QUARTER			OCT	NOV	DEC	4th QUARTER
0. Liquid Effluents												
Sr-89		Cl							N/A	N/A	N/A	< LLD
Sr-90									N/A	N/A	N/A	< LLD
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	1.67EO

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LIQUID EFFLUENTS - Batch Mode

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0. Liquid Effluents													
Sr-89		CI							N/A	N/A	N/A	< LLD	
Sr-90									N/A	N/A	N/A	< LLD	
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	1.67E0	