Commonwealth Edison
LaSalle County Nuclear Station
2601 N. 21st. Rd.
Marseilles, Illinois 61341
Telephone 815/357-6761

August 20, 1992

Mr. Bert Davis
Administrator
Nuclear Regulatory Commission, Region III
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Dear Mr. Davis:

Enclosed is the Semi-annual Radioactive Effluent Report for January through June, 1992 for LaSalle County Nuclear Power Station, Docket Numbers 50-373 and 50-374.

Two copies of the report are provided for your use. Two copies will be forwarded to the Document Control Desk and one copy to the Resident Inspector.

Information for errata regarding tritium release for the years 1990 and 1991 is also included.

Sincerely,

for G. J. Diederich
Station Manager
LaSalle County Nuclear Station

GJD/JAH/djf

enc.

cc: Director of Nuclear Reactor Regulation
Illinois Dept. of Nuclear Safety
American Nuclear Insurers
B. P. I.
U.S. EPA
Illinois EPA
Murray and Trettel, Inc.
Teledyne Isotopes Midwest Laboratory
Nuclear Quality Program and Assessments
Chemistry Services
Health Physics Services Supervisor (LaSalle)
NRC Resident Inspector (LaSalle)
Nuclear Quality Programs Supt. (LaSalle)
Chemistry Services Supv. (LaSalle)
EP Coordinator (LaSalle)
Illini State Park
Station File
EP File: EPG-01-R09

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LASALLE COUNTY NUCLEAR POWER STATION
UNITS ONE AND TWO
DOCKET NUMBERS 50-373 AND 50-374

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (1992)

GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASES

			First Quarter	Second Quarter
A.	Fission and Activation Gases			
	1. Total release	Ci	6.24E+01	2.38E+01
	2. Average release rate for period	uCi/sec	7.94E+00	3.06E+00
B.	Iodines			
	1. Total iodine-131	Ci	4.00E-04	1.94E-04
	2. Average release rate for period	uCi/sec	5.09E-05	2.51E-05
C.	Particulates			
	1. Particulates with T1/2 >8 days	Ci	3.65E-04	4.11E-04
	2. Average release rate for period	uCi/sec	4.64E-05	5.29E-05
	3. Gross alpha radioactivity (estimate)	Ci	<1.00E-11	<1.00E-11
D.	Tritium			
	1. Total release	Ci	9.28E+00	8.28E+00
	2. Average release rate for period	uCi/sec	1.18E+00	1.06E+00

"<" indicates activity of sample is less than LLD given in uci/ml

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (1992)

GASEOUS EFFLUENTS-ELEVATED RELEASE
Unit 1 and Unit 2 Continuous Mode

Nuclides Released		January	February	March	First Quarter
1. Fission Cases					
Kr-85	Ci	<1.00E-06	<1.00E-06	<1.00E-06	<1.00E-06
Kr-85m	Ci	5.42E+00	8.05E+00	<1.00E+06	1.34E+01
Kr-87	Ci	1.79E+01	1.12E+01	<1.00E-06	2.91E+01
Kr-88	Ci	<1.00E-06	7.02E+00	8.59E+00	1.56E+01
Xe-133	Ci	1.15E-03	4.59E-04	<1.00E-06	1.61E-03
Xe-133m	Ci	<1.00E-06	<1.00E-06	<1.00E-06	<1.00E-06
Xe-135	Ci	4.28E+00	5.43E-04	<1.00E-06	4.28E+00
Xe-135m	Ci	<1.00E-06	<1.00E-06	<1.00E-06	<1.00E-06
Xe-138	Ci	<1.00E-06	<1.00E-06	<1.00E-06	<1.00E-06
Total for period	Ci	2.76E+01	2.63E+01	8.59E+00	6.24E+01
2. Iodines					
I-131	Ci	3.06E-04	7.31E-05	2.11E-05	4.00E-04
I-132	Ci	<1.00E-11	<1.00E-11	<1.00E-11	<1.00E-11
I-133	Ci	4.05E-04	1.84E-04	7.58E-04	1.35E-03
I-134	Ci	<1.00E-11	<1.00E-11	<1.00E-11	<1.00E-11
I-135	Ci	<1.00E-11	<1.00E-11	<1.00E-11	<1.00E-11
Total for period	Ci	7.11E-04	2.57E-04	7.79E-04	1.75E-03
3. Particulates					
Cr-51	Ci	<1.00E-11	<1.00E-11	<1.00E-11	<1.00E-11
Mn-54	Ci	<1.00E-11	<1.00E-11	<1.00E-11	<1.00E-11
Co-58	Ci	<1.00E-11	<1.00E-11	<1.00E-11	<1.00E-11
Fe-59	Ci	<1.00E-11	<1.00E-11	<1.00E-11	<1.00E-11
Co-60	Ci	1.68E-04	3.79E-05	1.59E-04	3.65E-04
Zn-65	Ci	<1.00E-11	<1.00E-11	<1.00E-11	<1.00E-11
Sr-89 (Estimate)	Ci	<1.00E-11	<1.00E-11	<1.00E-11	<1.00E-11
Sr-90 (Estimate)	Ci	<1.00E-11	<1.00E-11	<1.00E-11	<1.00E-11
Nb-95	Ci	<1.00E-11	<1.00E-11	<1.00E-11	<1.00E-11
Mo-99	Ci	<1.00E-11	<1.00E-11	<1.00E-11	<1.00E-11
Cs-134	Ci	<1.00E-11	<1.00E-11	<1.00E-11	<1.00E-11
Cs-137	Ci	<1.00E-11	<1.00E-11	<1.00E-11	<1.00E-11
Ba-140	Ci	<1.00E-11	<1.00E-11	<1.00E-11	<1.00E-11
La-140	Ci	<1.00E-11	<1.00E-11	<1.00E-11	<1.00E-11
Ce-141	Ci	<1.00E-11	<1.00E-11	<1.00E-11	<1.00E-11
Ce-144	Ci	<1.00E-11	<1.00E-11	<1.00E-11	<1.00E-11
Total for period	Ci	1.68E-04	3.79E-05	1.59E-04	3.65E-04

"<" indicates activity of sample is less than LLD given uci/ml

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (1992)

GASEOUS EFFLUENTS-ELEVATED RELEASE
Unit 1 and Unit 2 Continuous Mode

Nuclides Released		April	May	June	Second Quarter
1. Fission Gases					
Kr-85	Ci	<1.00E-06	<1.00E-06	1.32E-03	1.32E-03
Kr-85m	Ci	2.99E+00	3.71E+00	3.24E+00	9.94E+00
Kr-87	Ci	<1.00E-06	<1.00E-06	<1.00E-06	<1.00E-06
Kr-88	Ci	<1.00E-06	<1.00E-06	1.39E+01	1.39E+01
Xe-133	Ci	<1.00E-06	5.59E-04	1.55E-03	2.11E-03
Xe-133m	Ci	<1.00E-06	<1.00E-06	<1.00E-06	<1.00E-06
Xe-135	Ci	<1.00E-06	7.55E-04	<1.00E-06	7.55E-04
Xe-135m	Ci	<1.00E-06	<1.00E-06	<1.00E-06	<1.00E-06
Xe-138	Ci	<1.00E-06	<1.00E-06	<1.00E-06	<1.00E-06
Total for period	Ci	2.99E+00	3.71E+00	1.71E+01	2.38E+01
2. Iodines					
I-131	Ci	2.56E-05	2.95E-05	1.39E-04	1.94E-04
I-132	Ci	<1.00E-11	<1.00E-11	<1.00E-11	<1.00E-11
I-133	Ci	3.55E-04	7.69E-04	1.38E-03	2.51E-03
I-134	Ci	<1.00E-11	<1.00E-11	<1.00E-11	<1.00E-11
I-135	Ci	<1.00E-11	<1.00E-11	<1.00E-11	<1.00E-11
Total for period	Ci	3.81E-04	7.99E-04	1.52E-03	2.71E-03
3. Particulates					
Cr-51	Ci	<1.00E-11	<1.00E-11	<1.00E-11	<1.00E-11
Mn-54	Ci	2.40E-05	<1.00E-11	<1.00E-11	2.40E-05
Co-58	Ci	<1.00E-11	<1.00E-11	<1.00E-11	<1.00E-11
Fe-59	Ci	<1.00E-11	<1.00E-11	<1.00E-11	<1.00E-11
Co-60	Ci	1.33E-04	2.11E-04	4.25E-05	3.87E-04
Zn-65	Ci	<1.00E-11	<1.00E-11	<1.00E-11	<1.00E-11
Sr-89 (Estimate)	Ci	<1.00E-11	<1.00E-11	<1.00E-11	<1.00E-11
Sr-90 (Estimate)	Ci	<1.00E-11	<1.00E-11	<1.00E-11	<1.00E-11
Nb-95	Ci	<1.00E-11	<1.00E-11	<1.00E-11	<1.00E-11
Mo-99	Ci	<1.00E-11	<1.00E-11	<1.00E-11	<1.00E-11
Cs-134	Ci	<1.00E-11	<1.00E-11	<1.00E-11	<1.00E-11
Cs-137	Ci	<1.00E-11	<1.00E-11	<1.00E-11	<1.00E-11
Ba-140	Ci	<1.00E-11	<1.00E-11	<1.00E-11	<1.00E-11
La-140	Ci	<1.00E-11	<1.00E-11	<1.00E-11	<1.00E-11
Ce-141	Ci	<1.00E-11	<1.00E-11	<1.00E-11	<1.00E-11
Ce-144	Ci	<1.00E-11	<1.00E-11	<1.00E-11	<1.00E-11
Total for period	Ci	1.57E-04	2.11E-04	4.25E-05	4.11E-04

"<" indicates activity of sample is less than LLD given uci/ml

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (1992)

UNIT ONE

LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES

			First Quarter	Second Quarter
A.	Fission and Activation Products			
	1. Total release (not including tritium, gases, alpha)	Ci	0.00E+00	2.84E-04
	2. Average concentration released	uCi/ml	N/A	1.38E-10
	3. Maximum concentration released	uCi/ml	N/A	1.38E-10
B.	Tritium			
	1. Total release	Ci	0.00E+00	2.96E-05
	2. Average concentration released	uCi/ml	N/A	1.44E-11
C.	Dissolved Noble Gases			
	1. Total release	Ci	0.00E+00	<1.00E-05
	2. Average concentration released	uCi/ml	N/A	N/A
D.	Gross Alpha Radioactivity			
	1. Total release	Ci	0.00E+00	<1.00E-07
	2. Average concentration released	uCi/ml	N/A	N/A
E.	Volume of Waste Released (prior to dilution)	liters	0.00E+00	2.05E+03
F.	Volume of Dilution Water	liters	0.00E+00	1.94E+06

"<" indicates activity of sample is less than LLD given in uCi/ml

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (1992)

UNIT ONE BATCH MODE

LIQUID EFFLUENTS

Nuclides Released		January	February	March	First Quarter
Cr-51	Ci				
Mn-54	Ci	No	No	No	
Fe-55	Ci	Releases	Releases	Releases	
Co-58	Ci				
Fe-59	Ci				
Co-60	Ci				
Zn-65	Ci				
Sr-89	Ci				
Sr-90	Ci				
Nb-95	Ci				
Zr-95	Ci				
Mo-99	Ci				
Tc-99m	Ci				
I-131	Ci				
Cs-134	Ci				
Cs-137	Ci				
Ba-140	Ci				
La-140	Ci				
Ce-141	Ci				
Ce-144	Ci				
Total for period	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xe-131m	Ci				
Xe-133m	Ci				
Xe-133	Ci				
Xe-135m	Ci				
Xe-135	Ci				

"<" indicates activity of sample is less than LLD given in uCi/ml

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (1992)

UNIT ONE BATCH MODE

LIQUID EFFLUENTS

Nuclides Released		April	May	June	Second Quarter
Cr-51	Ci	No	No	<5.00E-07	5.00E-07
Mn-54	Ci	Releases	Releases	1.78E-05	1.78E-05
Fe-55	Ci			2.70E-06	2.70E-06
Co-58	Ci			<5.00E-07	<5.00E-07
Fe-59	Ci			<5.00E-07	<5.00E-07
Co-60	Ci			2.12E-04	2.12E-04
Zn-65	Ci			<5.00E-07	<5.00E-07
Sr-89	Ci			1.10E-07	1.10E-07
Sr-90	Ci			3.00E-08	3.00E-08
Nb-95	Ci			<5.00E-07	<5.00E-07
Zr-95	Ci			<5.00E-07	<5.00E-07
Mo-99	Ci			<5.00E-07	<5.00E-07
Tc-99m	Ci			<5.00E-07	<5.00E-07
I-131	Ci			<1.00E.06	<1.00E.06
Cs-134	Ci			1.40E-05	1.40E-05
Cs-137	Ci			3.77E-05	3.77E-05
Ba-140	Ci			<5.00E-07	<5.00E-07
La-140	Ci			<5.00E-07	<5.00E-07
Ce-141	Ci			<5.00E-07	<5.00E-07
Ce-144	Ci			<5.00E-07	<5.00E-07
Total for period	Ci	0.00E+00	0.00E+00	2.84E-04	2.84E-04
Xe-131m	Ci			<1.00E-05	<1.00E-05
Xe-133m	Ci			<1.00E-05	<1.00E-05
Xe-133	Ci			<1.00E-05	<1.00E-05
Xe-135m	Ci			<1.00E-05	<1.00E-05
Xe-135	Ci			<1.00E-05	<1.00E-05

" indicates activity of sample is less than LLD given in uCi/ml

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (1992)

UNIT TWO

LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES

			First Quarter	Second Quarter
A.	Fission and Activation Products			
	1. Total release (not including tritium, gases, alpha)	Ci	0.00E+00	0.00E+00
	2. Average concentration released	uCi/ml	N/A	N/A
	3. Maximum concentration released	uCi/ml	N/A	N/A
B.	Tritium			
	1. Total release	Ci	0.00E+00	0.00E+00
	2. Average concentration released	uCi/ml	N/A	N/A
C.	Dissolved Noble Gases			
	1. Total release	Ci	0.00E+00	0.00E+00
	2. Average concentration released	uCi/ml	N/A	N/A
D.	Gross Alpha Radioactivity			
	1. Total release	Ci	0.00E+00	0.00E+00
	2. Average concentration released	uCi/ml	N/A	N/A
E.	Volume of Waste Released	liters	0.00E+00	0.00E+00
F.	Volume of Dilution Water	liters	0.00E+00	0.00E+00

"<" indicates activity of sample is less than LLD given in uCi/ml

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (1992)

UNIT TWO BATCH MODE

LIQUID EFFLUENTS

Nuclides Released		January	February	March	First Quarter
Cr-51	Ci				
Mn-54	Ci	No	No	No	
Fe-55	Ci	Releases	Releases	Releases	
Co-58	Ci				
Fe-59	Ci				
Co-60	Ci				
Zn-65	Ci				
Sr-89	Ci				
Sr-90	Ci				
Nb-95	Ci				
Zr-95	Ci				
Mo-99	Ci				
Tc-99m	Ci				
I-131	Ci				
Cs-134	Ci				
Cs-137	Ci				
Ba-140	Ci				
La-140	Ci				
Ce-141	Ci				
Ce-144	Ci				
Total for period	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xe-131m	Ci				
Xe-133m	Ci				
Xe-133	Ci				
Xe-135m	Ci				
Xe-135	Ci				

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EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (1992)

UNIT TWO BATCH MODE

LIQUID EFFLUENTS

Nuclides Released		April	May	June	Second Quarter
Cr-51	Ci	No	No	No	
Mn-54	Ci	Releases	Releases	Releases	
Fe-55	Ci				
Co-58	Ci				
Fe-59	Ci				
Co-60	Ci				
Zn-65	Ci				
Sr-89	Ci				
Sr-90	Ci				
Nb-95	Ci				
Zr-95	Ci				
Mo-99	Ci				
Tc-99m	Ci				
I-131	Ci				
Cs-134	Ci				
Cs-137	Ci				
Ba-140	Ci				
La-140	Ci				
Ce-141	Ci				
Ce-144	Ci				
Total for period	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xe-131m	Ci				
Xe-133m	Ci				
Xe-133	Ci				
Xe-135m	Ci				
Xe-135	Ci				

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EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (1992)

MAXIMUM DOSES RESULTING FROM RELEASES

			First Quarter	Second Quarter
A.	Gaseous Effluents (Units One and Two)			
1.	Gamma air	mrad	1.88E-03	9.59E-04
2.	Beta air	mrad	3.85E-04	6.22E-05
3.	Total body	mrem	1.08E-03	5.64E-04
4.	Skin	mrem	1.79E-03	7.92E-04
5.	Organ (infant thyroid)	mrem	3.23E-04	1.49E-03
B.	Liquid Effluents (Unit One)			
1.	Total body	mrem	0.00E+00	1.74E-06
4.	Internal organ (adult liver)	mrem	0.00E+00	2.39E-06
C.	Liquid Effluents (Unit Two)			
1.	Total body	mrem	0.00E+00	0.00E+00
4.	Internal organ	mrem	0.00E+00	0.00E+00

COMPLIANCE STATUS

A.	Gaseous Effluents (Units One and Two)			
1.	Gamma air	% of Tech. Spec. Limit	0.04	0.02
2.	Beta air	% of Tech. Spec. Limit	0.00	0.00
3.	Total body	% of Tech. Spec. Limit	0.004	0.02
4.	Skin	% of Tech. Spec. Limit	0.02	0.01
5.	Organ	% of Tech. Spec. Limit	0.00	0.02
B.	Liquid Effluents (Unit One)			
1.	Total body	% of Tech. Spec. Limit	0.00	0.00
2.	Internal organ	% of Tech. Spec. Limit	0.00	0.00
C.	Liquid Effluents (Unit Two)			
1.	Total body	% of Tech. Spec. Limit	0.00	0.00
2.	Internal organ (adult liver)	% of Tech. Spec. Limit	0.00	0.00

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (1992)

SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL

			January	February	March	First Quarter
1.	Spent resins, filter sludges, evaporator bottoms, etc.					
	a. Quantity shipped	cu.m.	1.32E+01	1.16E+01	1.89E+01	4.37E+01
	b. Total activity	Ci	3.24E+02	2.57E+01	4.95E+02	8.45E+02
	c. Major nuclides (estimate)					
	Mn-54	%	14	8	10	
	Fe-55	%	61	67	63	
	Co-58	%	2	1	2	
	Co-60	%	22	22	22	
	d. Container type		LSA	LSA	LSA	
	e. Container volume	cu.m.	4.19E+00	3.40E+00	2.97E+00	
			4.83E+00	4.83E+00	3.40E+00	
					4.19E+00	
	f. Solidification agent		Cement	Cement	Cement	
2.	Dry compressible waste, contaminated equipment, etc.					
	a. Quantity shipped	cu.m.	2.11E+02	3.51E+01	2.52E+02	4.98E+02
	b. Total activity	Ci	1.77E+00	6.64E-01	3.05E+00	5.48E+00
	c. Major nuclides (estimate)					
	Cr-51	%	16	12	12	
	Mn-54	%	18	11	11	
	Fe-55	%	52	58	59	
	Fe-59	%	19	8	8	
	d. Container type		LSA	LSA	LSA	
	e. Container volume	cu.m.	3.51E+01	3.51E+01	2.12E-01	
					2.72E+00	
					3.84E+00	
					3.51E+01	

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (1992)

SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL

		January	February	March	First Quarter
3. Solid Waste Disposition					
a. Number of Shipments		09	04	13	26
b. Mode of Transportation		Truck	Truck	Truck	
	Numbe	09	04	13	
c. Destination					
		Oak Ridge, TN	Oak Ridge, TN	Oak Ridge, TN	
	Number	06	01	08	
		Beatty, Nv			
	Number	02			
		Barnwell, SC	Barnwell, SC	Barnwell, SC	
	Number	01	03	01	
				Richland, Wa	
	Number			04	

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (1992)

SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL

			April	May	June	Second Quarter
1.	Spent resins, filter sludges, evaporator bottoms, etc.					
	a. Quantity shipped	cu.m.	1.66E+01	2.22E+02	1.44E+01	2.53E+02
	b. Total activity	Ci	6.75E+02	4.21E+02	4.46E+02	1.54E+03
	c. Major nuclides					
	Mn-54	%	14	30	2	
	Fe-55	%	60	0.6	96	
	Co-58	%	2	9	0	
	Co-60	%	21	58	10	
	d. Container type		LSA	LSA	LSA	
	e. Container volume	cu.m.	3.40E+00 4.19E+00 4.83E+00	4.19E+00 4.83E+00	2.36E+00 2.97E+00 3.40E+00 4.19E+00	
	f. Solidification agent		Cement	Cement	Cement	
2.	Dry compressible waste, contaminated equipment, etc.					
	a. Quantity shipped	cu.m.	7.02E+01	3.51E+01	7.17E+01	1.77E+02
	b. Total activity	Ci	8.37E-01	3.20E-01	2.36E+00	3.52E+00
	c. Major nuclides (estimate)					
	Cr-51	%	12	12	7	
	Mn-54	%	11	11	27	
	Fe-55	%	58	58	22	
	Fe-59	%	8	8	13	
	Co-60	%	N/A	N/A	26	
	d. Container type		LSA	LSA	LSA	
	e. Container volume	cu.m.	3.51E+01	3.51E+01	2.12E-01 3.51E+01	

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (1992)

SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL

		April	May	June	Second Quarter
3. Solid Waste Disposition					
a. Number of Shipments		06	06	08	20
b. Mode of Transportation		Truck	Truck	Truck	
	Number	06	06	08	
c. Destination					
		Oak Ridge, TN	Oak Ridge, TN	Oak Ridge, TN	
	Number	02	01	02	
		Richland, WA	Richland, WA	Richland, WA	
		02	03	04	
		Barnwell, SC	Barnwell, SC	Barnwell, Sc	
	Number	02	02	02	

Supplemental Information

1. Regulatory Limits

a. Gaseous Effluents

1) The air dose due to noble gases released in gaseous effluents, from each reactor unit, from the site shall be limited to the following:

a) During any calendar quarter: Less than or equal to 5 mrad for gamma radiation and less than or equal to 10 mrad for beta radiation, and

b) During any calendar year: Less than or equal to 10 mrad for gamma radiation and less than or equal to 20 mrad for beta radiation.

2) The dose to an individual from radioiodines and radioactive materials in particulate form, and radionuclides, other than noble gases, with half-lives greater than eight days in gaseous effluents released, from each reactor unit, from the site shall be limited to the following:

a) During any calendar quarter: Less than or equal to 7.5 mRems to any organ, and

b) During any calendar year: Less than or equal to 15 mRems to any organ.

b. Liquid Effluents

1) The dose or dose commitment to an individual from radioactive materials in liquid effluents released, from each reactor unit, from the site shall be limited:

a) During any calendar quarter to less than or equal to 1.5 mRem to the total body and to less than or equal to 5 mRem to any organ, and

b) During any calendar year to less than or equal to 3 mRem to the total body and to less than or equal to 10 mRem to any organ.

c. Total Dose

1) The dose or dose commitment to any member of the public, due to releases or radioactivity and radiation, from uranium fuel cycle sources shall be limited to less than or equal to 25 mRem to the body or any organ (except the thyroid, which shall be limited to less than or equal to 75 mRem) over 12 consecutive months.

2. Maximum Permissible Concentrations

a. Gaseous Effluents

1) The dose rate due to radioactive materials released in gaseous effluents from the site shall be limited to the following:

a) For noble gases: Less than or equal to 500 mRem/year to the total body and less than or equal to 3000 mRem/year to the skin, and

b) For all radioiodines and for all radioactive materials in particulate form, and radionuclides, other than noble gases, with half-lives greater than eight days: Less than or equal to 1500 mRem/year to any organ via the inhalation pathway.

b. Liquid Effluents

1) The concentration of radioactive material released form the site shall be limited to the concentrations specified in 10 CFR Part 20, Appendix B, Table II, Column 2 for radionuclides other than dissolved or entrained noble gases. For dissolved or entrained noble gases, the concentration shall be limited to the following:

Nuclide	MPC (uci/ml)
Kr-85m	2.00E-04
Kr-85	5.00E-04
Kr-87	4.00E-05
Kr-88	9.00E-05
Ar-41	7.00E-05
Xe-131m	7.00E-04
Xe-133m	5.00E-04
Xe-133	6.00E-04
Xe-135m	2.00E-04
Xe-135	2.00E-04

3. Average Energy

   a. Not Applicable.

4. Measurements and Approximations of Total Radioactivity

   a. Gaseous Effluents

      1) Containment Vent and Purge System is sampled by grab sample which is analyzed for principal gamma emitters and H-3.

      2) Main Vent Stack is sampled by grab sample which is analyzed for principal gamma emitters and H-3.

      3) Standby Gas Treatment System is sampled by grab sample which is analyzed for principal gamma emitters.

      4) All release types as listed in 1 and 2 above, at the vent stack and as listed in 3 above, at the Standby Gas Treatment System whenever there is a flow, are continuously sampled by charcoal, particulate and composite samples which are analyzed for iodines, principal gamma emitters, gross alpha, Sr-89 and Sr-90. Noble gases, gross beta and gamma are continuously monitored by noble gas monitors for the vent stack and the standby gas treatment system.

   b. Liquid Effluents

      1) Batch waste release tanks are sampled each batch for principal gamma emitters, I-131, dissolved and entrained noble gases, H-3, gross alpha, Sr-89, Sr-90 and Fe-55.

      2) Continuous releases are sampled continuously in proportion to the rate of flow of the effluent stream and by grab sample. Samples are analyzed for principal gamma emitters, I-131, dissolved and entrained noble gases, H-3, gross alpha, Sr-89, Sr-90 and Fe-55.

5. Batch Releases

   a. Gaseous

      1) Number of batch releases: None

      2) Total time period for batch releases: N/A

3) Maximum time period for a batch release: N/A

4) Average time period for batch releases: N/A

5) Minimum time period for a batch release: N/A

b. Liquid

1) Number of batch releases: 1

2) Total time period for batch releases: 256 minutes

3) Maximum time period for a batch release: 256 minutes

4) Average time period for batch releases: 256 minutes

5) Minimum time period for a batch release: 256 minutes

6) Average stream flow during periods of release of effluent into a flowing stream: 6.15E+06 gpm

6. Abnormal Releases

a. Gaseous

1) Number of releases: None

2) Total activity released: N/A

b. Liquid

1) Number of releases: None

2) Total activity released: N/A

METEOROLOGICAL DATA

(See following pages.)

CECo LASALLE STATION
375 ft. WIND SPEED and WIND DIRECTION

January-March 1992
375-33 ft. DIFFERENTIAL TEMPERATURE

NUMBER OF OBSERVATIONS = 2163
VALUES ARE PERCENT OCCURRENCE

SPEED		WIND DIRECTION CLASSES																STABILITY CLASSES							
CLASS		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	EU	MU	SU	N	SS	MS	ES	TC
	EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00							
	MU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00						
C	SU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00			.00					
A	N	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00				.00				
L	SS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00					.00			
M	MS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						..		
	ES	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00							.00	
	EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00							
	MU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00						
1	SU	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05			.05					
-	N	.00	.00	.14	.00	.09	.05	.05	.09	.05	.05	.09	.00	.00	.00	.05	.05	.69				.69				
3	SS	.05	.00	.05	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14					.14			
	MS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						.00		
	ES	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05							.05	
	EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00							
	MU	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.05	.05	.00	.00	.18		.18						
4	SU	.00	.00	.00	.00	.00	.00	.18	.14	.00	.00	.00	.05	.00	.00	.00	.00	.37			.37					
-	N	.18	.28	.23	.14	.28	.23	.18	.28	.28	.32	.28	.42	.32	.42	.18	.23	4.25				4.25				
7	SS	.00	.14	.37	.00	.28	.00	.05	.00	.09	.09	.05	.09	.05	.23	.18	.14	1.76					1.76			
	MS	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.05	.00	.05	.00	.00	.00	.14						.14		
	ES	.00	.05	.00	.05	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14							.14	
																										6
	EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00							
	MU	.00	.09	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.09	.05	.28		.28						
8	SU	.05	.14	.00	.09	.05	.05	.05	.05	.00	.05	.18	.05	.09	.18	.00	14	1.11			1.11					
-	N	.79	.69	.83	.37	.51	.65	.83	.42	.14	.18	.37	.46	.88	1.16	1.43	1.34	11.05				11.05				
1	SS	.05	.14	.28	.37	.18	.23	.14	.14	.14	.18	.14	.00	.14	.46	.37	.65	3.61					3.61			
2	MS	.05	.00	.00	.00	.00	.00	.09	.09	.18	.05	.00	.05	.00	.09	.09	.09	.79						.79		
	ES	.00	.00	.00	.00	.00	.00	.00	.05	.00	.09	.00	.05	.05	.05	.09	.05	.42							.42	
																										17
	EU	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.05	.00	.14	.14							
1	MU	.14	.18	.05	.00	.00	.00	.00	.00	.00	.05	.05	.00	.00	.00	.05	.09	.60		.60						
3	SU	.14	.32	.00	.09	.00	.05	.07	.05	.00	.05	.09	.05	.00	.18	.14	.37	1.62			1.62					
-	N	1.80	.88	1.16	1.02	1.02	1.20	.74	.37	.42	.37	.51	.14	.60	1.85	2.13	1.90	16.00				16.00				
1	SS	.00	.14	.09	.18	.37	.14	.28	.60	.51	.23	.18	.42	.37	.65	.88	.09	5.13					5.13			
8	MS	.00	.00	.00	.00	.05	.00	.28	.65	.42	.05	.23	.09	.09	.14	.37	.32	2.68						2.68		
	ES	.00	.00	.00	.00	.00	.00	.05	.05	.18	.09	.05	.05	.05	.05	.14	.05	.74							.74	
																										26

CECo LASALLE STATION
375 ft. WIND SPEED and WIND DIRECTION

January-March 1992
375-33 ft. DIFFERENTIAL TEMPERATURE

SPEED CLASS	WIND DIRECTION CLASSES N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	STABILITY CLASSES EU	MU	SU	N	SS	MS	ES
EU	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.00	.14	.14						
1 MU	.14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.00	.00	.00	.05	.09	.37		.37					
9 SU	.00	.00	.00	.05	.05	.00	.00	.00	.05	.09	.09	.05	.05	.0[illegible]	.23	.42	1.06			1.06				
- N	.74	.51	.18	1.02	.79	1.20	.56	.32	.28	.[illegible]	.60	.51	.65	1.25	2.87	1.16	13.22				13.22			
2 SS	.00	.00	.00	.09	.28	.88	.37	.37	.65	.42	.37	.28	.65	.28	.42	.14	5.18					5.18		
4 MS	.00	.00	.00	.00	.00	.00	.18	.09	.37	.03	.28	.09	.32	.60	.32	.00	2.36						2.36	
ES	.00	.00	.00	.00	.00	.00	.00	.00	.09	.09	.09	.23	.18	.09	.00	.00	.79							.79
EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14	.14	.28	.28						
6 MU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.00	.32	.37		.37					
7 SU	.05	.00	.00	.00	.00	.00	.00	.00	.05	.18	.00	.05	.00	.05	.18	.14	.69			.69				
N	.69	.46	.05	.60	.32	.65	.46	.09	.60	1.25	.65	.60	.79	2.08	1.76	.65	11.70				11.70			
2 SS	.00	.00	.00	.00	.14	.37	.18	.18	.56	1.57	1.29	.92	.46	.51	.09	.00	6.29					6.29		
4 MS	.00	.00	.00	.00	.00	.05	.09	.[illegible]	.42	.60	1.25	.74	.60	.14	.05	.00	4.30						4.30	
ES	.00	.00	.00	.00	.00	.05	.00	.00	.18	.18	.37	.42	.14	.00	.00	.00	1.34							1.34
TOT	4.05	4.16	3.42	4.11	4.39	5.83	4.85	4.39	5.64	7.03	7.44	5.78	6.56	10.49	12.44	8.51	100.00	.55	1.80	4.90	56.91	22.10	10.26	3.47

Wind Direction by Stability

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	-STABILITY CLASSES-
.05	.05	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.28	.14	.55	Extremely Unstable
.28	.32	.05	.00	.00	.00	.00	.00	.00	.14	.18	.00	.05	.05	.18	.55	1.80	Moderately Unstable
.23	.51	.00	.23	.05	.09	.32	.23	.09	.37	.37	.23	.14	.42	.55	1.06	4.90	Slightly Unstable
4.21	2.82	2.59	3.14	3.01	3.98	2.82	1.57	1.78	2.77	2.50	2.13	3.24	6.75	8.41	5.22	56.91	Neutral
.09	.42	.79	.65	1.29	1.62	1.02	1.29	1.94	2.50	2.03	1.71	1.66	2.13	1.94	1.07	22.10	Slightly Stable
.05	.00	.00	.05	.05	.05	.65	1.20	1.39	.79	1.80	.97	1.06	.97	.83	.42	10.26	Moderately Stable
.05	.05	.00	.05	.00	.09	.05	.09	.46	.46	.51	.74	.42	.18	.23	.09	3.47	Extremely Stable

Wind Direction by Wind Speed

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	-WIND SPEED CLASSES-
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	C A L M
.09	.05	.18	.00	.14	.05	.05	.09	.05	.05	.09	.00	.00	.00	.05	.05	.92	0.8 - 3.5 mph
.18	.51	.60	.23	.55	.28	.42	.42	.37	.42	.42	.55	.46	.69	.37	.37	6.84	3.6 - 7.5 mph
.92	1.06	1.11	.83	.69	.82	1.11	.74	.46	.60	.69	.60	1.16	1.94	2.08	2.31	17.24	7.6 - 12.5 mph
2.13	1.53	1.29	1.29	1.43	1.39	1.43	1.71	1.53	.83	1.16	.74	1.11	2.87	3.74	2.73	26.91	12.6 - 18.5 mph
.88	.55	.18	1.16	1.11	2.08	1.11	.79	1.43	1.29	1.53	1.16	1.85	2.22	3.98	1.80	23.12	18.6 - 24.5 mph
.74	.46	.05	.60	.46	1.11	.74	.65	1.80	3.84	3.56	2.73	1.99	2.77	2.22	1.25	24.97	> 24.5 mph

CECo LASALLE STATION
375 ft. WIND SPEED and WIND DIRECTION

April-June 1992
375-33 ft. DIFFERENTIAL TEMPERATURE

NUMBER OF OBSERVATIONS = 2184
VALUES ARE PERCENT OCCURRENCE

SPEED	WIND DIRECTION CLASSES																	STABILITY CLASSES						
CLASS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	EU	MU	SU	N	SS	MS	ES
EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						
MU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00					
C SU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00			.00				
A N	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00				.00			
L SS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00					.00		
M MS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						.00	
ES	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00							.00
EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00						
MU	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.09		.09					
1 SU	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05			.05				
- N	.05	.09	.00	.00	.09	.00	.05	.05	.05	.09	.05	.00	.00	.00	.00	.18	.69				.69			
3 SS	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.05	.00	.00	.05	.00	.00	.14					.14		
MS	.00	.00	.00	.00	.00	.14	.05	.00	.00	.05	.09	.00	.05	.05	.05	.00	.46						.46	
ES	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00							.00
EU	.00	.00	.00	.05	.00	.00	.00	.09	.00	.05	.09	.00	.00	.00	.00	.00	.27	.27						
MU	.05	.14	.55	.23	.00	.09	.09	.05	.09	.09	.23	.05	.05	.00	.00	.00	1.69		1.69					
4 SU	.05	.23	.41	.32	.32	.05	.09	.05	.00	.09	.14	.05	.00	.00	.00	.00	1.79			1.79				
- N	.27	.18	.55	.37	.46	.09	.14	.05	.05	.00	.05	.09	.00	.00	.05	.09	2.43				2.43			
7 SS	.09	.18	.18	.09	.09	.14	.05	.09	.09	.05	.18	.05	.05	.05	.05	.00	1.42					1.42		
MS	.00	.00	.05	.09	.09	.14	.09	.05	.14	.09	.09	.05	.09	.00	.00	.00	.96						.96	
ES	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.09	.14							.14
EU	.00	.32	.64	.05	.00	.00	.05	.05	.05	.00	.18	.14	.00	.00	.00	.00	1.47	1.47						
MU	.18	.37	.82	.69	.27	.00	.09	.09	.37	.32	.23	.00	.09	.00	.00	.05	3.57		3.57					
8 SU	.05	.05	.14	.37	.27	.23	.18	.09	.14	.05	.14	.05	.18	.05	.00	.23	2.20			2.20				
- N	.73	1.14	1.51	.78	.73	1.47	.32	.23	.18	.32	.14	.09	.32	.27	.60	.87	9.71				9.71			
1 SS	.14	.37	.69	.78	.32	.55	.05	.05	.18	.09	.05	.09	.09	.09	.09	.09	3.71					3.71		
2 MS	.18	.05	.00	.05	.00	.18	.09	.09	.23	.27	.09	.05	.14	.18	.00	.18	1.79						1.79	
ES	.18	.00	.00	.00	.00	.00	.00	.09	.05	.05	.00	.00	.00	.00	.00	.00	.37							.37
EU	.18	.23	.50	.27	.00	.00	.00	.05	.09	.00	.00	.00	.00	.00	.00	.00	1.33	1.33						
1 MU	.37	.50	.18	.18	.14	.14	.23	.14	.05	.23	.09	.00	.00	.18	.00	.41	2.84		2.84					
3 SU	.18	.32	.18	.27	.09	.32	.37	.27	.00	.09	.14	.05	.05	.05	.14	.64	3.16			3.16				
- N	1.37	1.10	1.42	2.79	1.69	.87	.55	.18	.05	.09	.32	.23	.23	.64	.73	1.97	14.24				14.24			
1 SS	.41	.55	.14	.32	1.60	.82	.18	.14	.14	.41	.27	.09	.09	.05	.14	.41	5.77					5.77		
8 MS	.09	.00	.14	.05	.14	1.05	.78	.41	.05	.14	.27	.14	.05	.00	.05	.00	3.34						3.34	
ES	.00	.00	.00	.00	.00	.23	.46	.32	.27	.09	.27	.05	.00	.00	.00	.00	1.69							1.69

CECo LASALLE STATION
375 ft. WIND SPEED and WIND DIRECTION

April-June 1992
375-33 ft. DIFFERENTIAL TEMPERATURE

SPEED CLASS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	EU	MU	SU	N	SS	MS	ES
EU	.00	.05	.00	.05	.18	.00	.00	.00	.09	.00	.00	.00	.00	.00	.05	.05	.46	.46						
1 MU	.05	.09	.00	.00	.14	.05	.27	.05	.14	.37	.09	.05	.00	.05	.46	.05	1.83		1.83					
9 SU	.18	.18	.00	.05	.14	.09	.05	.05	.05	.23	.09	.27	.00	.14	.18	.00	1.69			1.69				
- N	.69	.41	.09	1.14	1.73	.60	.14	.14	.46	.37	.64	.92	.37	.50	.60	.60	9.43				9.43			
2 SS	.37	.55	.00	.00	1.01	.69	.18	.41	.14	.46	.46	.32	.09	.14	.14	.50	5.45					5.45		
4 MS	.05	.05	.00	.00	.14	.69	.37	.05	.00	.18	.09	.18	.09	.14	.14	.14	2.29						2.29	
ES	.00	.00	.00	.00	.00	.00	.05	.41	.05	.00	.00	.00	.00	.05	.05	.00	.60							.60
EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.00	.09	.09						
0 MU	.00	.00	.00	.00	.00	.00	.00	.00	.09	.05	.18	.00	.00	.05	.18	.00	.55		.55					
7 SU	.09	.00	.00	.00	.00	.00	.00	.05	.00	.32	.27	.00	.05	.00	.05	.00	.82			.82				
N	.05	.00	.00	.00	.14	.27	.14	1.10	.69	.64	.64	.05	.18	.18	.18	.09	4.35				4.35			
2 SS	.05	.00	.00	.00	.05	.14	.18	.37	.60	.69	1.37	.41	.09	.09	.05	.14	4.21					4.21		
4 MS	.00	.00	.00	.00	.00	.00	.09	.32	.23	.87	.23	.09	.09	.14	.05	.00	2.11						2.11	
ES	.00	.00	.00	.00	.00	.00	.00	.18	.41	.14	.00	.00	.09	.00	.00	.00	.82							.82
TOT	6.09	7.19	8.20	9.07	9.89	9.02	2.36	5.77	5.17	6.96	7.23	3.57	2.52	3.11	4.08	6.78	100.00	3.62	10.58	9.71	40.84	20.70	10.94	3.62

Wind Direction by Stability

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	-STABILITY CLASSES-
.18	.60	1.14	.41	.19	.00		.18	.23	.05	.27	.14	.00	.00	.14	.05	3.62	Extremely Unstable
.64	1.14	1.56	1.10	.55	.27	.65	.32	.73	1.05	.82	.14	.14	.27	.64	.50	10.58	Moderately Unstable
.55	.78	.73	1.05	.82	.69	.69	.50	.18	.78	.78	.41	.27	.23	.37	.87	9.71	Slightly Unstable
3.16	2.93	3.57	5.08	4.90	3.30	1.33	1.74	1.47	1.51	1.83	1.37	1.10	1.60	2.15	3.80	40.84	Neutral
1.05	1.65	1.01	1.24	3.07	2.34	.64	1.05	1.14	1.69	2.38	.96	.41	.46	.46	1.14	20.70	Slightly Stable
.32	.09	.18	.18	.37	2.20	1.47	.92	.64	1.60	.87	.50	.50	.50	.27	.32	10.94	Moderately Stable
.18	.00	.00	.00	.00	.23	.50	1.05	.78	.27	.27	.05	.09	.05	.05	.09	3.62	Extremely Stable

Wind Direction by Wind Speed

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	-WIND SPEED CLASSES-
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	C A L M
.05	.14	.00	.09	.09	.14	.09	.05	.05	.14	.18	.05	.05	.09	.05	.18	1.42	0.8 - 3.5 mph
.46	.73	1.74	1.14	.96	.50	.46	.41	.37	.37	.78	.27	.18	.05	.09	.18	8.70	3.6 - 7.5 mph
1.47	2.29	3.80	2.70	1.60	2.43	.78	.69	1.19	1.10	.82	.41	.82	.60	.69	1.42	22.80	7.6 - 12.5 mph
2.61	2.70	2.56	3.89	3.66	3.43	2.56	1.51	.64	1.05	1.37	.55	.41	.92	1.05	3.43	32.37	12.6 - 18.5 mph
1.33	1.33	.09	1.24	3.39	2.11	1.05	1.10	.92	1.60	1.37	1.14	.55	1.01	1.60	1.33	21.75	18.6 - 24.5 mph
.18	.00	.00	.00	.18	.41	.41	2.01	2.01	2.70	2.70	.55	.50	.46	.60	.23	12.96	> 24.5 mph

Tritium Release Reported for 1990 and 1991

The amount of tritium released for the years 1990 and 1991 were incorrectly reported. The reported values and the correct values are listed in the table below. The value for Station Vent Stack flow used in calculating the amount of tritium released was incorrect. The value used was to low by a factor of one hundred. The error was identified during a audit performed by Corporate Assessment in May of 1992.

Quarter/Year	Actual	Reported
1st/1990	0	0
2nd/1990	8.45 E-01	8.45 E-03
3rd/1990	8.82 E+00	8.85 E-02
4th/1990	7.32 E+00	7.32 E-02
1st/1991	2.20 E+01	2.36 E-01
2nd/1990	5.89 E+00	6.19 E-02
3rd/1991	8.52 E+00	8.52 E-02
4th/1991	2.88 E+01	2.88 E-01

The changes in average release rates and maximum doses resulting from releases were negligible and the values are not being included.

RESIDUAL HEAT REMOVAL
SERVICE WATER PROCESS RADIATION MONITOR

DESCRIPTION OF EVENT:

On March 2, 1992, Unit 2 was in Operational Condition 5 (Defueled) at 0% power. At approximately 0135 hours, the timeclock for the Unit 2 "B" Residual Heat Removal (RHR) Service Water (WS) Process Radiation Monitor (PRM) was exceeded. The timeclock was entered on February 1, 1992 at 0135 hours due to RHR WS valve and Heat Exchanger work. While this work was going on, other work was being started on February 10,1992 that also made the PRM inoperable. This work was on a Primary Containment Vent and Purge Vacuum Breaker and it required that a length of cable tray be removed. The electrical cables remained connected and in place, but it was determined that all cable from that tray would not be able to withstand a seismic event. Therefore the cables from that tray and the associated equipment were conservatively considered inoperable even though the equipment was still functional. While this work was going on, the work on the RHR WS valve and Heat Exchanger was completed and that source for the inoperable PRM was cleared, but the PRM was still inoperable due to the work on the Primary Containment Vent and Purge Vacuum Breaker. This work continued until the 6th of March, 1992 at 1450 hours at which time the cable tray was replaced and the PRM was returned back to service. However, the return to service of the PRM was past the required 30 day timeclock.

APPARENT CAUSE OF EVENT:

The cause of this event was the length of time that was needed to complete the work on the Primary Containment Vent and Purge Vacuum Breaker, that is, the repair work on the 2VQ029 extended beyond what was originally anticipated to complete the valve actuator replacement. This overlap created a situation that did not allow the return of the PRM to operability before the timeclock was exceeded.

CORRECTIVE ACTION:

On March 6, 1992 at 1450 hours, the cable tray was replaced and the PRM was returned to service. In addition, this event is being placed in the Semi-Annual Effluent Report as required by the Technical Specifications.

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