

Commonwealth Edison Company
LaSalle Generating Station
2601 North 21st Road
Marseilles, IL 61341-9757
Tel 815-357-6761



February 23, 1996

U.S. Nuclear Regulatory Commission
Washington D.C. 20555
Attention: Document Control Desk

Enclosed is the Semi-annual Radioactive Effluent Report for July through December, 1995 for LaSalle County Nuclear Station, Docket Numbers 50-373 and 50-374.

Sincerely,

A handwritten signature in dark ink, appearing to read "D. J. Ray", is written over the typed name.

D. J. Ray
Station Manager
LaSalle County Station

DJR/TG/mkl

Handwritten initials, possibly "MFM", are written next to the word "Attachment".
Attachment

cc: H. J. Miller, Regional Administrator, RIII
Illinois Department of Nuclear Safety
American Nuclear Insurers
B.P.I.
U.S. EPA
Murray and Trettel, Inc.
Teledyne Isotopes Midwest Laboratory
Chemistry Support (Downers Grove)
NRC Senior Resident Inspector (LaSalle)
Site Quality Verification (LaSalle)
Central File
Illini State Park
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 (1995)

GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASES

			<u>Third Quarter</u>	<u>Fourth Quarter</u>	<u>Estimated Total Error %</u>
A.	Fission and Activation Gases				
1.	Total release	Ci	3.89E+00	5.60E-04	33%
2.	Average release rate for period	uCi/sec	2.45E-01	3.52E-05	
B.	Iodines				
1.	Total iodine-131	Ci	2.97E-03	6.16E-04	35%
2.	Average release rate for period	uCi/sec	1.87E-04	3.87E-05	
C.	Particulates				
1.	Particulates with T1/2 >8 days	Ci	5.21E-05	5.87E-03	29%
2.	Average release rate for period	uCi/sec	3.28E-06	3.69E-04	
3.	Gross alpha radioactivity (estimate)	Ci	<1.00E-11	<1.00E-11	
D.	Tritium				
1.	Total release	Ci	2.17E+01	3.37E+01	17%
2.	Average release rate for period	uCi/sec	1.37E+00	2.19E+00	

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

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (1995)

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

Nuclides Released		<u>July</u>	<u>August</u>	<u>September</u>	<u>Third Quarter</u>
1.	Fission Gases				
Ar-41	Ci	<1.00E-06	2.02E-04	2.02E-04	4.04E-04
Kr-85	Ci	<1.00E-06	<1.00E-06	<1.00E-06	<1.00E-06
Kr-85m	Ci	<1.00E-06	<1.00E-06	<1.00E-06	<1.00E-06
Kr-87	Ci	<1.00E-06	<1.00E-06	<1.00E-06	<1.00E-06
Kr-88	Ci	<1.00E-06	<1.00E-06	<1.00E-06	<1.00E-06
Xe-131m	Ci	<1.00E-06	<1.00E-06	<1.00E-06	<1.00E-06
Xe-133	Ci	<1.00E-06	6.80E-04	1.06E-03	1.74E-03
Xe-133m	Ci	<1.00E-06	<1.00E-06	<1.00E-06	<1.00E-06
Xe-135	Ci	4.53E-04	2.23E-03	3.89E+00	3.89E+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	4.53E-04	3.11E-03	3.89E+00	3.89E+00
2.	Iodines				
I-131	Ci	4.78E-05	7.58E-05	3.61E-05	1.60E-04
I-132	Ci	<1.00E-11	<1.00E-11	<1.00E-11	<1.00E-11
I-133	Ci	7.07E-04	1.39E-03	7.11E-04	2.81E-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	7.50E-04	1.47E-03	7.50E-04	2.97E-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	<1.00E-11	2.14E-05	3.07E-05	5.21E-05
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	<1.00E-11	2.14E-05	3.07E-05	5.21E-05

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

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (1995)

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

Nuclides Released		<u>October</u>	<u>November</u>	<u>December</u>	<u>Forth Quarter</u>
1.	Fission Gases				
Ar-41	Ci	2.33E-04	<1.00E-06	<1.00E-06	2.33E-04
Kr-85	Ci	<1.00E-06	<1.00E-06	<1.00E-06	<1.00E-06
Kr-85m	Ci	<1.00E-06	<1.00E-06	<1.00E-06	<1.00E-06
Kr-87	Ci	<1.00E-06	<1.00E-06	<1.00E-06	<1.00E-06
Kr-88	Ci	<1.00E-06	<1.00E-06	<1.00E-06	<1.00E-06
Xe-131m	Ci	<1.00E-06	<1.00E-06	<1.00E-06	<1.00E-06
Xe-133	Ci	<1.00E-06	<1.00E-06	<1.00E-06	<1.00E-06
Xe-133m	Ci	<1.00E-06	<1.00E-06	<1.00E-06	<1.00E-06
Xe-135	Ci	2.07E-04	1.23E-04	<1.00E-06	3.30E-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	4.40E-04	1.23E-04	<1.00E-06	5.60E-04
2.	Iodines				
I-131	Ci	1.64E-04	1.66E-04	2.84E-04	6.16E-04
I-132	Ci	<1.00E-11	<1.00E-11	<1.00E-11	<1.00E-11
I-133	Ci	1.41E-03	2.21E-03	1.64E-03	5.26E-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	1.57E-03	2.38E-03	1.92E-03	5.87E-03
3.	Particulates				
Cr-51	Ci	<1.00E-11	<1.00E-11	4.63E-04	4.63E-04
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	<1.00E-11	2.05E-05	5.80E-05	7.85E-05
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	<1.00E-11	2.05E-05	5.20E-04	5.40E-04

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

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (1995)

UNIT ONE

LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES

			<u>Third Quarter</u>	<u>Forth Quarter</u>	<u>ESTIMATED TOTAL ERROR*</u>
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 (prior to dilution)liters				
			0.00E+00	0.00E+00	
F.	Volume of Dilution Water				
		liters	0.00E+00	0.00E+00	

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (1995)

UNIT ONE BATCH MODE

LIQUID EFFLUENTS

Nuclides Released		<u>July</u>	<u>August</u>	<u>September</u>	<u>Third Quarter</u>
Cr-51	Ci				
Mn-54	Ci	No	No	No	No
Fe-55	Ci	Releases	Releases	Releases	Releases
Co-58	Ci				
Fe-59	Ci				
Co-60	Ci				
Zn-65	Ci				
Sr-8	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				

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (1995)

UNIT ONE BATCH MODE

LIQUID EFFLUENTS

Nuclides Released		<u>October</u>	<u>November</u>	<u>December</u>	<u>Forth Quarter</u>
Cr-51	Ci	No	No	No	No
Mn-54	Ci	Releases	Releases	Releases	Releases
Fe-55	Ci				
Fe-59	Ci				
Co-60	Ci				
Zn-65	Ci				
Sr-89	Ci				
Sr-90	Ci				
Zr-95	Ci				
Mo-99	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				

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (1995)

UNIT TWO

LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES

			<u>Third Quarter</u>	<u>Forth Quarter</u>
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

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (1995)

UNIT TWO BATCH MODE

LIQUID EFFLUENTS

Nuclides Released		<u>July</u>	<u>August</u>	<u>September</u>	<u>Third Quarter</u>
Cr-51	Ci				
Mn-54	Ci	No	No	No	No
Fe-55	Ci	Releases	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				

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (1995)

UNIT TWO BATCH MODE

LIQUID EFFLUENTS

Nuclides Released		<u>October</u>	<u>November</u>	<u>December</u>	<u>Forth Quarter</u>
Cr-51	Ci	No	No	No	No
Mn-54	Ci	Releases	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				

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (1995)

MAXIMUM DOSES RESULTING FROM RELEASES

			<u>Third Quarter</u>	<u>Forth Quarter</u>
A.	Gaseous Effluents (Units One and Two)			
1.	Gamma air	mrad	1.37E-05	6.39E-09
2.	Beta air	mrad	2.40E-06	3.86E-10
3.	Total body	mrem	1.03E-05	4.81E-09
4.	Skin	mrem	1.20E-05	5.19E-09
5.	Organ (infant thyroid)	mrem	7.28E-03	3.45E-03
B.	Liquid Effluents (Unit One)			
1.	Total body	mrem	0.00E+00	0.00E+00
4.	Internal organ (adult liver)	mrem	0.00E+00	0.00E+00
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	0.00	0.00
2.	Beta air	% of Tech. Spec. Limit	0.00	0.00
3.	Total body	% of Tech. Spec. Limit	0.00	0.00
4.	Skin	% of Tech. Spec. Limit	0.00	0.00
5.	Organ (child)	% of Tech. Spec. Limit	0.52	0.13
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 (1995)

SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL

			<u>July</u>	<u>August</u>	<u>September</u>	<u>Third Quarter</u>
1.	Spent resins, filter sludges, evaporator bottoms, etc.					
a.	Quantity shipped	cu.m.	0.00E+00	1.93E+01	3.62E+01	5.55E+01
b.	Total activity	Ci	0.00E+00	1.15E+02	1.60E+02	2.75E+02
c.	Major nuclides (estimate %)					
	Mn-54	%	0	23	23	
	Fe-55	%	0	1.24	1.24	
	Co-58	%	0	9.62	9.62	
	Co-60	%	0	65.20	65.20	
d.	Container type		N/A	LSA	LSA	
e.	Container volume	cu.m.	N/A	4.83E+00	2.36E+00 4.83E+00	
f.	Solidification agent		N/A	Cement	Cement	
2.	Dry compressible waste, contaminated equipment, etc.					
a.	Quantity shipped	cu.m.	0.00E+00	0.00E+00	0.00E+00	0.00E+00
b.	Total activity	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
c.	Major nuclides (estimate %)					
	Cr-51	%	0	0	0	
	Mn-54	%	0	0	0	
	Fe-55	%	0	0	0	
	Co-59	%	0	0	0	
	Co-60	%	0	0	0	
d.	Container type		N/A	N/A	N/A	
e.	Container volume	cu.m.	N/A	N/A	N/A	

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (1995)

SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL

		<u>July</u>	<u>August</u>	<u>September</u>	<u>Third Quarter</u>
3.	Other				
a.	Quantity shipped cu.m.	0.00E+00	0.00E+00	0.00E+00	0.00E+00
b.	Total activity Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
c.	Major nuclides (estimate %)				
	Cr-51 %	0	0	0	
	Mn-54 %	0	0	0	
	Fe-55 %	0	0	0	
	Co-59 %	0	0	0	
	Co-60 %	0	0	0	
d.	Container type	N/A	N/A	N/A	
e.	Container volume cu.m.	N/A	N/A	N/A	
4.	Irradiated Components				
a.	Number of shipments	0	0	0	0
b.	Mode of Transportation	N/A	N/A	N/A	
c.	Destination	N/A	N/A	N/A	
5.	Solid Waste Disposition				
a.	Number of Shipments	0	4	8	24
b.	Mode of Transportation		Truck	Truck	
	Number	N/A	4	8	
c.	Destination	N/A	Barnwell	Barnwell	
	Number	0	4	8	

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (1995)

SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL

			<u>October</u>	<u>November</u>	<u>December</u>	<u>Forth Quarter</u>
1.	Spent resins, filter sludges, evaporator bottoms, etc.					
a.	Quantity shipped	cu.m.	6.52E+02	9.86E+01	3.86E+01	7.89E+02
b.	Total activity	Ci	1.03E+02	1.21E+02	7.96E+02	1.02E+03
c.	Major nuclides (estimate %)					
	Mn-54	%	23	23	23	
	Fe-55	%	1.24	1.24	1.24	
	Co-58	%	9.62	9.62	9.62	
	Co-60	%	65.2	65.2	65.2	
d.	Container type		LSA	LSA	LSA	
e.	Container volume	cu.m.	4.83E+00 2.36E+00	4.83E+00 3.40E+00	4.83E+00	
f.	Solidification agent		Cement	Cement	Cement	
2.	Dry compressible waste, contaminated equipment, etc.					
a.	Quantity shipped	cu.m.	0.00E+00	0.00E+00	9.66E+00	9.66E+00
b.	Total activity	Ci	0.00E+00	0.00E+00	1.02E+01	1.02E+01
c.	Major nuclides (estimate %)					
	Mn-54	%	0	0	4.28	
	Fe-55	%	0	0	22.8	
	Co-59	%	0	0	0.05	
	Co-60	%	0	0	7.08	
d.	Container type		N/A	N/A	LSA	
e.	Container volume	cu.m.	N/A	N/A	4.83E+00	

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (1995)

SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL

		<u>October</u>	<u>November</u>	<u>December</u>	<u>Forth Quarter</u>
3.	Other				
a.	Quantity shipped cu.m.	0.00E+00	0.00E+00	0.00E+00	0.00E+00
b.	Total activity Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
c.	Major nuclides (estimate %)				
	Cr-51 %	0	0	0	
	Mn-54 %	0	0	0	
	Fe-55 %	0	0	0	
	Co-59 %	0	0	0	
	Co-60 %	0	0	0	
d.	Container type	N/A	N/A	N/A	
e.	Container volume cu.m.	N/A	N/A	N/A	
4.	Irradiated Components				
a.	Number of shipments	0	0	0	0
b.	Mode of Transportation	N/A	N/A	N/A	
c.	Destination	N/A	N/A	N/A	
5.	Solid Waste Disposition				
a.	Number of Shipments	14	21	10	45
b.	Mode of Transportation	Truck	Truck	Truck	
	Number	14	21	10	
c.	Destination	Barnwell	Barnwell	Barnwell	
	Number	14	21	10	
	Estimated total error % for spent resins, filter sludges, evaporator bottoms, etc. (July-Dec)				12%
	Estimated total error % for dry compressible waste, contaminated equipment, etc. (July-Dec)				14%

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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 of 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.

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Supplemental Information (continued)

2. Allowable 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 from 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:

<u>Nuclide</u>	<u>DWC (pci/ml)</u>
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.

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Supplemental Information (continued)

- 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: | N/A |
| 2) Total time period for batch releases: Min. | N/A |
| 3) Maximum time period for a batch release: Min. | N/A |
| 4) Average time period for batch releases: Min. | N/A |
| 5) Minimum time period for a batch release: Min. | N/A |
| 6) Average stream flow during periods of release of effluent into a flowing stream: gpm | N/A |

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Supplemental Information (continued)

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 |

7. Process Control Program

There were no changes to the Process Control Program.

8. Effluent Monitoring Instrumentation timeclocks.

There were no timeclocks for the effluent monitoring instrumentation exceeded.

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT (1995)

METEOROLOGICAL DATA

CECO LASALLE STATION
375 ft. WIND SPEED and WIND DIRECTION

July-September 1995
375-33 ft. DIFFERENTIAL TEMPERATURE

NUMBER OF OBSERVATIONS = 2192
VALUES ARE PERCENT OCCURRENCE

SPEED CLASS	WIND DIRECTION CLASSES																STABILITY CLASSES							TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	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	.00	.00	.00	.00	.00	
MU	.00	.00	.00	.00	.00	.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	.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	.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	.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	.00	.00	.00	.00	.00	
ES	.00	.00	.00	.00	.00	.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	.00	.00	.00	.00	.00	
MU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
1 SU	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.05	.00	.05	.00	.00	.00	.14	.00	.14	.00	.00	.00	.00	
- N	.05	.14	.05	.00	.00	.00	.14	.09	.09	.00	.18	.05	.05	.05	.00	.05	.91	.00	.91	.00	.00	.00	.00	
3 SS	.05	.05	.05	.14	.05	.05	.00	.00	.00	.05	.00	.14	.09	.00	.00	.00	.64	.00	.64	.00	.00	.00	.00	
MS	.00	.05	.09	.05	.00	.05	.05	.09	.00	.00	.05	.14	.14	.05	.00	.00	.73	.00	.73	.00	.00	.00	.00	
ES	.00	.00	.00	.00	.00	.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	.05	.00	.00	.00	.00	.00	.00	.05	.00	.68	.00	.00	.00	.00	
MU	.00	.05	.00	.00	.00	.00	.05	.14	.18	.14	.05	.05	.05	.00	.00	.00	.68	.00	2.33	.00	.00	.00	.00	
4 SU	.00	.05	.05	.00	.00	.05	.18	.18	.41	.14	.68	.18	.36	.05	.00	.00	2.33	.00	2.33	.00	.00	.00	.00	
- N	.27	.18	.09	.27	.50	.64	.46	.32	.78	.09	.32	.50	.59	.64	.32	.32	6.30	.00	6.30	.00	.00	.00	.00	
7 SS	.09	.14	.00	.55	.23	.09	.18	.36	.50	.18	.23	.50	.18	.14	.14	.09	3.60	.00	3.60	.00	.00	.00	.00	
MS	.09	.00	.05	.05	.09	.18	.05	.27	.09	.05	.14	.09	.14	.18	.14	.00	1.60	.00	1.60	.00	.00	.00	.00	
ES	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.05	.00	.00	.00	.09	.00	.09	.00	.00	.00	.00	
EU	.00	.00	.05	.00	.00	.00	.09	.05	.00	.05	.00	.00	.00	.00	.00	.00	.23	.00	3.47	.00	.00	.00	.00	
MU	.18	.14	.27	.18	.00	.00	.32	.50	.64	.36	.59	.14	.14	.00	.00	.00	3.47	.00	4.11	.00	.00	.00	.00	
8 SU	.18	.23	.00	.09	.14	.14	.46	.55	.14	.36	.64	.59	.36	.00	.05	.18	4.11	.00	4.11	.00	.00	.00	.00	
- N	.59	.09	.32	.41	.55	.96	.59	.55	.46	.55	.55	1.23	.41	.59	.23	.27	8.35	.00	8.35	.00	.00	.00	.00	
1 SS	.05	.18	.14	.73	.46	.46	.46	.27	.41	.27	1.00	.68	.46	.32	.23	.09	6.20	.00	6.20	.00	.00	.00	.00	
2 MS	.14	.05	.09	.05	.09	.18	.41	.36	.27	.59	.55	.32	.23	.09	.18	.14	3.74	.00	3.74	.00	.00	.00	.00	
ES	.00	.00	.00	.00	.00	.05	.00	.18	.14	.09	.14	.14	.00	.18	.18	.00	1.09	.00	1.09	.00	.00	.00	.00	
EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.14	.00	.00	.00	.00	.00	.18	.00	1.87	.00	.00	.00	.00	
1 MU	.14	.09	.14	.05	.00	.00	.05	.27	.18	.36	.23	.14	.00	.00	.00	.23	1.87	.00	1.87	.00	.00	.00	.00	
3 SU	.18	.00	.05	.14	.00	.00	.00	.00	.18	.14	.46	.50	.18	.09	.09	.68	2.69	.00	2.69	.00	.00	.00	.00	
- N	1.55	.41	.46	.91	.36	.18	.18	.36	.41	.46	.91	.82	.36	.46	.50	.82	9.17	.00	9.17	.00	.00	.00	.00	
1 SS	.59	.50	.36	.46	.41	.73	.73	.41	.46	.41	.91	.68	.59	.41	.36	.27	8.30	.00	8.30	.00	.00	.00	.00	
8 MS	.14	.05	.00	.00	.00	.36	.73	.41	.78	.91	.50	.50	.64	.27	.36	.18	5.84	.00	5.84	.00	.00	.00	.00	
ES	.00	.00	.00	.00	.00	.14	.23	.14	.46	.55	.41	.05	.09	.18	.00	.00	2.24	.00	2.24	.00	.00	.00	.00	

CECo LASALLE STATION
375 ft. WIND SPEED and WIND DIRECTION

July-September 1995
375-33 ft. DIFFERENTIAL TEMPERATURE

SPEED CLASS	WIND DIRECTION CLASSES																STABILITY CLASSES								TOTAL
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	EU	MU	SU	N	SS	MS	ES		
EU	.05	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09	.09							
1 MU	.09	.05	.00	.00	.00	.00	.00	.00	.14	.00	.00	.09	.18	.23	.09	.00	.87	.87							
9 SU	.00	.00	.05	.05	.00	.00	.00	.00	.18	.05	.09	.05	.05	.36	.23	.00	1.09		1.09						
N	.59	.36	.05	.18	.00	.00	.00	.32	.68	.18	.50	.23	.09	.23	.27	.18	3.88			3.88					
2 SS	.23	.18	.05	.00	.32	.14	.32	.46	.41	.68	.55	.64	.32	.27	.18	.23	4.97				4.97				
4 MS	.05	.00	.00	.00	.00	.27	.27	.09	.14	.82	.68	.46	.50	.27	.00	.05	3.60					3.60			
ES	.00	.00	.00	.00	.00	.09	.23	.09	.36	.27	.00	.27	.00	.00	.00	.09	1.41						1.41		
																							15.92		
EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00							
6 MU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.14	.00	.00	.18	.18							
T SU	.00	.00	.00	.00	.00	.00	.00	.00	.05	.05	.05	.00	.23	.05	.05	.00	.46			.46					
N	.05	.00	.00	.00	.00	.00	.05	.05	.64	.27	.05	.05	.23	.09	.00	.00	1.46				1.46				
2 SS	.00	.00	.00	.00	.00	.00	.05	.27	.82	1.05	.68	.00	.05	.00	.05	.00	2.97					2.97			
4 MS	.00	.00	.00	.00	.00	.00	.09	.23	.36	.41	.55	.27	.59	.36	.00	.00	2.87						2.87		
ES	.00	.00	.00	.00	.00	.00	.09	.23	.50	.18	.14	.36	.09	.00	.00	.00	1.60						1.60		
																							9.53		
TOT	5.34	2.97	2.42	4.29	3.19	4.61	6.25	7.03	10.63	9.58	12.32	10.26	7.57	5.79	3.88	3.88	100.00	.55	7.07	10.81	30.06	26.69	18.39	6.43	100.00

Wind Direction by Stability

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	-STABILITY CLASSES-
.05	.00	.09	.00	.00	.00	.09	.05	.00	.14	.14	.00	.00	.00	.00	.00	.55	Extremely Unstable
.41	.32	.41	.23	.00	.00	.32	.59	1.19	.73	1.09	.50	.55	.41	.09	.23	7.07	Moderately Unstable
.36	.27	.14	.27	.14	.18	.64	.73	1.00	.73	1.96	1.32	1.23	.55	.41	.87	10.81	Slightly Unstable
3.10	1.19	.96	1.78	1.41	1.78	1.41	1.69	3.06	1.55	2.51	2.87	1.73	2.05	1.32	1.64	30.06	Neutral
1.00	1.05	.59	1.87	1.46	1.46	1.73	1.78	2.60	2.65	3.38	2.65	1.69	1.14	.96	.68	26.69	Slightly Stable
.41	.14	.23	.14	.18	1.05	1.60	1.46	1.64	2.78	2.42	1.69	2.24	1.32	.73	.36	18.39	Moderately Stable
.00	.00	.00	.00	.00	.14	.46	.73	1.14	1.00	.82	1.23	.14	.32	.36	.09	6.43	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	CALM
.09	.23	.18	.18	.05	.09	.18	.18	.14	.05	.23	.23	.32	.18	.05	.05	2.42	0.8 - 3.5 mph
.46	.41	.18	.87	.82	.96	.87	1.19	1.92	.68	1.51	1.37	1.32	1.09	.59	.41	14.64	3.6 - 7.5 mph
1.14	.68	.87	1.46	1.23	1.78	2.33	2.46	2.05	2.28	3.47	3.10	1.60	1.19	.87	.68	27.19	7.6 - 12.5 mph
2.60	1.05	1.00	1.55	.78	1.28	1.78	1.46	2.24	2.60	3.83	3.15	1.96	1.32	1.51	2.19	30.29	12.6 - 18.5 mph
1.00	.59	.18	.23	.32	.50	.82	.96	1.92	2.01	1.82	1.73	1.14	1.37	.78	.55	15.92	18.6 - 24.5 mph
.05	.00	.00	.00	.00	.00	.27	.78	2.37	1.96	1.46	.68	1.23	.64	.09	.00	9.53	> 24.5 mph

CECO LASALLE STATION
375 ft. WIND SPEED and WIND DIRECTION

October-December 1995
375-33 ft. DIFFERENTIAL TEMPERATURE

NUMBER OF OBSERVATIONS = 2204
VALUES ARE PERCENT OCCURRENCE

WIND CLASS		WIND DIRECTION CLASSES																STABILITY CLASSES								
		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	EU	MU	SU	N	SS	MS	ES	TOTAL
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	.00						
1 SU		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00					
2 N		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00				
3 SS		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00			
4 MS		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		
5 ES		.00	.00	.00	.00	.00	.00	.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	.00	.00					
MU		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00				
1 SU		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00				
2 N		.00	.00	.00	.00	.05	.09	.00	.09	.00	.05	.00	.09	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00			
3 SS		.00	.09	.05	.09	.05	.05	.00	.05	.00	.05	.05	.09	.05	.00	.05	.00	.00	.41	.00	.00	.00	.41	.59		
4 MS		.05	.00	.00	.09	.00	.00	.00	.00	.00	.00	.05	.00	.05	.00	.00	.00	.59	.00	.00	.00	.00	.59	.23		
5 ES		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.05	.00	.23	.00	.00	.00	.00	.23	.05	1.27	
EU		.00	.00	.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	.00	.00	.00				
4 SU		.00	.00	.00	.00	.00	.00	.00	.00	.00	.14	.09	.00	.00	.00	.00	.00	.23	.00	.00	.00	.00	.23			
5 N		.41	.14	.32	.18	.18	.14	.09	.27	.09	.18	.36	.05	.05	.27	.32	.14	3.18	.00	.00	.00	.00	.23	3.18		
7 SS		.32	.18	.27	.14	.14	.05	.09	.14	.05	.23	.14	.05	.14	.09	.05	.18	2.22	.00	.00	.00	.00	2.22	.68		
8 MS		.23	.05	.00	.00	.00	.00	.00	.09	.00	.00	.05	.00	.00	.00	.14	.14	.68	.00	.00	.00	.00	.68	.14	6.44	
9 ES		.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.05	.00	.05	.00	.00	.00	.14	.00	.00	.00	.00	.14	.00		
EU		.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.05	.00	.00	.00	.00	.05			
MU		.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.05	.00	.00	.00	.00	.05			
8 SU		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.05			
9 N		.64	.05	.82	1.04	.32	.18	.09	.14	.23	.36	.18	.09	.45	.86	1.32	.91	7.67	.00	.00	.00	.00	.27	7.67		
1 SS		.14	.36	.14	.23	.18	.23	.36	.27	.32	.27	.36	.14	.23	.14	.27	.64	4.26	.00	.00	.00	.00	.27	4.26		
2 MS		.23	.05	.05	.00	.00	.05	.00	.14	.05	.00	.14	.32	.05	.05	.27	.18	1.54	.00	.00	.00	.00	.59	1.54		
3 ES		.05	.00	.00	.00	.00	.00	.00	.00	.00	.32	.09	.00	.05	.09	.00	.59	.59	.00	.00	.00	.00	.59	.59	14.43	
EU		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00				
1 MU		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00			
3 SU		.00	.00	.00	.00	.00	.00	.00	.00	.00	.18	.18	.00	.00	.00	.00	.00	.36	.00	.00	.00	.00	.36			
4 N		.68	.00	.41	.95	.45	.09	.36	.41	.36	.50	.45	.32	1.13	2.13	1.50	1.41	11.16	.00	.00	.00	.00	.36	11.16		
1 SS		.50	.18	.00	.05	.18	.27	.18	.27	.23	.32	.27	.18	.32	.77	.59	.45	4.76	.00	.00	.00	.00	.36	4.76		
8 MS		.45	.09	.00	.00	.18	.14	.14	.32	.09	.09	.14	.36	.09	.32	.23	.45	3.09	.00	.00	.00	.00	.36	3.09		
9 ES		.14	.00	.00	.00	.00	.00	.09	.00	.18	.09	.00	.05	.00	.05	.00	.59	.59	.00	.00	.00	.00	.59	.59	19.96	

CECO LASALLE STATION
375 ft. WIND SPEED and WIND DIRECTION

October-December 1995
375-33 ft. DIFFERENTIAL TEMPERATURE

SPEED CLASS	WIND DIRECTION CLASSES																STABILITY CLASSES								
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	EU	MU	SU	N	SS	MS	ES	TOTAL
EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00							
1 MU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.05		.05						
9 SU	.00	.00	.00	.00	.00	.00	.00	.00	.05	.14	.23	.00	.00	.18	.36	.00	.95			.95					
N	.45	.36	1.09	.91	.86	.36	.14	.50	.91	.68	.27	.73	2.13	2.86	2.22	.86	15.34				15.34				
2 SS	.32	.05	.00	.09	.36	.64	.23	.23	.50	.36	.32	.18	.82	.82	.64	.50	6.03				6.03				
4 MS	.14	.00	.00	.00	.00	.23	.05	.14	.18	.18	.45	.18	.68	.59	.82	.23	3.86					3.86			
ES	.05	.00	.00	.00	.00	.00	.00	.09	.09	.18	.36	.05	.23	.41	.18	.05	1.68						1.68		
																									27.90
EU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00							
6 MU	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.05		.05						
T SU	.00	.00	.00	.00	.00	.00	.00	.05	.00	.23	.14	.09	.18	.09	.18	.00	.95			.95					
N	.32	.50	.14	.68	.14	.14	.14	.32	.86	.59	.23	.91	3.31	3.72	.95	.50	13.43				13.43				
2 SS	.05	.00	.00	.00	.05	.09	.14	.82	2.22	1.91	.91	.54	.32	1.59	.27	.00	8.89					.89			
4 MS	.00	.00	.00	.00	.00	.14	.09	.23	.73	1.27	.50	.09	.77	.77	.14	.00	4.72						4.72		
ES	.00	.00	.00	.00	.00	.00	.05	.09	.54	.36	.77	.05	.05	.00	.05	.00	1.95							1.95	
																									29.99
TOT	5.13	2.09	3.27	4.54	3.13	2.86	2.13	4.63	7.58	8.58	7.12	4.67	11.12	15.74	10.75	6.67	100.00	.05	.14	2.77	51.18	26.77	14.11	4.99	100.00

Wind Direction by Stability

N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL	STABILITY CLASSES
.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	Extremely Unstable
.00	.00	.00	.05	.00	.00	.00	.00	.00	.05	.00	.00	.05	.00	.00	.00	.14	Moderately Unstable
.00	.00	.00	.00	.00	.00	.00	.05	.05	.77	.73	.09	.18	.27	.59	.05	2.77	Slightly Unstable
2.50	1.04	2.77	3.77	2.00	1.00	.82	1.72	2.45	2.36	1.50	2.18	7.08	9.85	6.35	3.81	51.18	Neutral
1.32	.86	.45	.59	.95	1.32	1.00	1.77	3.31	3.13	2.04	1.18	1.86	3.40	1.81	1.77	26.77	Slightly Stable
1.09	.18	.05	.09	.18	.54	.27	.82	1.13	1.54	1.27	1.00	1.63	1.72	1.59	1.00	14.11	Moderately Stable
.23	.00	.00	.00	.00	.00	.05	.27	.64	.73	1.59	.23	.32	.50	.41	.05	4.99	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	CALM
.05	.09	.05	.18	.09	.14	.00	.14	.00	.09	.09	.18	.09	.00	.09	.00	1.27	0.8 - 3.5 mph
.95	.36	.59	.32	.32	.18	.18	.41	.23	.54	.64	.18	.18	.41	.50	.45	6.44	3.6 - 7.5 mph
1.04	.45	1.00	1.36	.50	.45	.45	.54	.59	.73	1.09	.64	.73	1.09	2.00	1.77	14.43	7.6 - 12.5 mph
1.77	.27	.41	1.00	.82	.50	.68	1.09	.68	1.27	1.13	.86	1.59	3.22	2.36	2.31	19.96	12.6 - 18.5 mph
.95	.41	1.09	1.00	1.23	1.23	.41	.95	1.72	1.59	1.63	1.13	3.86	4.85	4.22	1.63	27.90	18.6 - 24.5 mph
.36	.50	.14	.68	.18	.36	.41	1.50	4.36	4.36	2.54	1.68	4.67	6.17	1.59	.50	29.99	> 24.5 mph