

ZION NUCLEAR POWER STATION
 2005 RADIOACTIVE EFFLUENT RELEASE REPORT
 UNIT 1 & 2 (DOCKET Numbers 50-295 & 50-304)

EXECUTIVE SUMMARY

A review of 2005 effluent data indicates that the activity released from the station was far below any regulatory limit. There was no noble gas released in 2005. This trend can be attributed to the shutdown of both units since late September 1997.

Airborne

	Dose to Maximally Exposed Receptor from Unit 1	Dose to Maximally Exposed Receptor from Unit 2
Gamma Air	0 mrad	0 mrad
Beta Air	0 mrad	0 mrad
Total Body	4.36E-4 mrem (Child)	4.36E-4 mrem (Child)
Skin	0 mrem	0 mrem
Organ	4.88E-4 mrem (Adult Gi-Li)	4.88E-4 mrem (Adult Gi-Li)

There was NO Aquatic release of radioactivity from Zion Station for 2005.

Aquatic

	Dose to Maximally Exposed Receptor (Any) from Unit 1	Dose to Maximally Exposed Receptor (Any) from Unit 2
Total Body	0 mrem	0 mrem
Organ	0 mrem	0 mrem

Attachment 2:

To the Zion Nuclear Power Station, Units 1 and 2, 2005 Radioactive Effluent Release Report.

The following identifies those actions committed to by Exelon Nuclear in this document. Any other actions discussed in this submittal represent intended or planned actions by Exelon Nuclear. They are described to the NRC for the NRC's information, and are not Regulatory Commitments.

Commitment:

None

**ZION STATION
2005
Unit 1
10CFR20 Compliance Assessment**

1. 10CFR 20.1301 (a) (1) Compliance

Total Effective Dose Equivalent 9.39E-4 mrem/year

10 CFR 20.1301 (a) (1) limit 100 mrem/year

% of the limit 0.000939

2. Compliance Summary 10CFR20

	1 st Qtr.	2 nd Qtr.	3 rd Qtr.	4 th Qtr	% of Limit
TEDE	6.97E-4	1.72E-4	6.99E-5	0	0.000939

**ZION STATION
2005
Unit 2
10CFR20 Compliance Assessment**

1. 10CFR 20.1301 (a) (1) Compliance

Total Effective Dose Equivalent 9.39E-4 mrem/year

10 CFR 20.1301 (a) (1) limit 100 mrem/year

% of the limit 0.000939

2. Compliance Summary 10CFR20

	1 st Qtr.	2 nd Qtr.	3 rd Qtr.	4 th Qtr	% of Limit
TEDE	6.97E-4	1.72E-4	6.99E-5	0	0.000939

40CFR190 URANIUM FUEL CYCLE DOSE REPORT

LIQUID DOSE SUMMARY

Report for: 2005
 Unit Range - From: 1 To: 2

==== PERIOD DOSE BY ORGAN AND AGE GROUP (mrem) ===== QUARTER 1 =====
 Liquid Receptor
 Agegrp Bone Liver Thyroid Kidney Lung GI-LLI Skin TB

==== SITE DOSE LIMIT ANALYSIS ===== QUARTER 1 =====

Quartr - Limit	Age Group	Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
Qtr 1 - Admin. Any Organ			0.00E+00	0.00E+00	0.00E+00
Qtr 1 - Admin. Total Body	ADULT	TBODY	0.00E+00	1.13E+00	0.00E+00
Qtr 1 - T.Spc. Any Organ			0.00E+00	3.75E+00	0.00E+00

Critical Pathway:
 Major Contributors (0% or greater to total)
 Nuclide Percentage

Qtr 1 - T.Spc. Total Body	ADULT	TBODY	0.00E+00	1.50E+00	0.00E+00
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Critical Pathway: Potable Water (PWtr)
 Major Contributors (0% or greater to total)
 Nuclide Percentage

40CFR190 URANIUM FUEL CYCLE DOSE REPORT

LIQUID DOSE SUMMARY

Report for: 2005

Unit Range - From: 1 To: 2

Liquid Receptor

=== PERIOD DOSE BY ORGAN AND AGE GROUP (mrem) === QUARTER 2 ===
 Agegrp Bone Liver Thyroid Kidney Lung GI-LLI Skin TB

=== SITE DOSE LIMIT ANALYSIS === QUARTER 2 ===

Quartr - Limit	Age Group	Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
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Qtr 2 - Admin. Any Organ			0.00E+00	5.00E+00	0.00E+00
Qtr 2 - Admin. Total Body	ADULT	TBODY	0.00E+00	1.13E+00	0.00E+00

Qtr 2 - T.Spc. Any Organ			0.00E+00	3.75E+00	0.00E+00
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Critical Pathway:

Major Contributors (0% or greater to total)

Nuclide	Percentage
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Qtr 2 - T.Spc. Total Body	ADULT	TBODY	0.00E+00	1.50E+00	0.00E+00
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Critical Pathway: Potable Water (PWtr)

Major Contributors (0% or greater to total)

Nuclide	Percentage
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40CFR190 URANIUM FUEL CYCLE DOSE REPORT

LIQUID DOSE SUMMARY

Report for: 2005
 Unit Range - From: 1 To: 2

==== PERIOD DOSE BY ORGAN AND AGE GROUP (mrem) ===== QUARTER 3 =====
 Agegrp Bone Liver Thyroid Kidney Lung GI-LLI Skin TB

==== SITE DOSE LIMIT ANALYSIS ===== QUARTER 3 =====

Quartr - Limit	Age Group	Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
Qtr 3 - Admin. Any Organ			0.00E+00	5.00E+00	0.00E+00
Qtr 3 - Admin. Total Body	ADULT	TBODY	0.00E+00	1.13E+00	0.00E+00
Qtr 3 - T.Spc. Any Organ			0.00E+00	3.75E+00	0.00E+00
Qtr 3 - T.Spc. Total Body	ADULT	TBODY	0.00E+00	1.50E+00	0.00E+00

Critical Pathway:
 Major Contributors (0% or greater to total)

Nuclide Percentage

Critical Pathway: Potable Water (PWtr)

Major Contributors (0% or greater to total)

Nuclide Percentage

40CFR190 URANIUM FUEL CYCLE DOSE REPORT

LIQUID DOSE SUMMARY

Report for: 2005
 Unit Range - From: 1 To: 2

==== PERIOD DOSE BY ORGAN AND AGE GROUP (mrem) ===== QUARTER 4 =====
 Agegrp Bone Liver Thyroid Kidney Lung GI-LLI Skin TB

==== SITE DOSE LIMIT ANALYSIS ===== QUARTER 4 =====

Quartr - Limit	Age Group	Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
Qtr 4 - Admin. Any Organ			0.00E+00	5.00E+00	0.00E+00
Qtr 4 - Admin. Total Body	ADULT	TBODY	0.00E+00	1.13E+00	0.00E+00
Qtr 4 - T.Spc. Any Organ			0.00E+00	3.75E+00	0.00E+00

Critical Pathway:
 Major Contributors (0% or greater to total)

Nuclide	Percentage
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Qtr 4 - T.Spc. Total Body	ADULT	TBODY	0.00E+00	1.50E+00	0.00E+00
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Critical Pathway: Potable Water (PWtr)
 Major Contributors (0% or greater to total)

Nuclide	Percentage
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40CFR190 URANIUM FUEL CYCLE DOSE REPORT

LIQUID DOSE SUMMARY

Report for: 2005
 Unit Range - From: 1 To: 2

							Liquid Receptor	
=== PERIOD DOSE BY ORGAN AND AGE GROUP (mrem) ===							ANNUAL 2005	
Agegrp	Bone	Liver	Thyroid	Kidney	Lung	GI-LLI	Skin	TB

=== SITE DOSE LIMIT ANALYSIS === ANNUAL 2005

Annual - Limit	Age Group	Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
2005 - Admin. Any Organ			0.00E+00	5.00E+00	0.00E+00
2005 - Admin. Total Body	ADULT	TBODY	0.00E+00	2.25E+00	0.00E+00
2005 - T.Spc. Any Organ			0.00E+00	7.50E+00	0.00E+00

Critical Pathway:
 Major Contributors (0% or greater to total)
 Nuclide Percentage

2005 - T.Spc. Total Body	ADULT	TBODY	0.00E+00	3.00E+00	0.00E+00
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Critical Pathway: Potable Water (PWtr)
 Major Contributors (0% or greater to total)
 Nuclide Percentage

40CFR190 URANIUM FUEL CYCLE DOSE REPORT

GASEOUS DOSE SUMMARY

Report for: 2005
 Unit Range - From: 1 To: 2

=== I&P DOSE LIMIT ANALYSIS ===== QUARTER 1 =====

Quartr - Limit	Age Group	Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
Qtr 1 - Admin. Any Organ	ADULT	GILLI	7.36E-04	5.63E+00	1.31E-02
Qtr 1 - Admin. Total Body	CHILD	TBODY	6.57E-04	5.25E+00	1.25E-02

Qtr 1 - T.Spc. Any Organ ADULT GILLI 7.36E-04 7.50E+00 9.81E-03

Receptor: 5 Composite Crit. Receptor - IP
 Distance: 0.00 (meters) Compass Point: NA
 Critical Pathway: Ground Plane Deposition (GPD)
 Major Contributors (0% or greater to total)

Nuclide	Percentage
CO-60	9.91E+01
CS-137	9.33E-01

Qtr 1 - T.Spc. Total Body CHILD TBODY 6.57E-04 7.50E+00 8.76E-03

Receptor: 5 Composite Crit. Receptor - IP
 Distance: 0.00 (meters) Compass Point: NA
 Critical Pathway: Ground Plane Deposition (GPD)
 Major Ccntributors (0% or greater to total)

Nuclide	Percentage
CO-60	9.78E+01
CS-137	2.22E+00

40CFR190 URANIUM FUEL CYCLE DOSE REPORT

GASEOUS DOSE SUMMARY

Report for: 2005
Unit Range - From: 1 To: 2

=== NG DOSE LIMIT ANALYSIS ===== QUARTER 1 =====

Quartr - Limit	Dose (mrad)	Limit (mrad)	Max % of Limit
Qtr 1 - Admin. Gamma	0.00E+00	7.50E+00	0.00E+00
Qtr 1 - Admin. Beta	0.00E+00	7.50E+00	0.00E+00
Qtr 1 - T.Spc. Gamma	0.00E+00	7.50E+00	0.00E+00
Receptor: 5 Composite Crit. Receptor - IP			
Distance: 0.00 (meters)		Compass Point: NA	
Nuclide	Percentage		
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Qtr 1 - T.Spc. Beta	0.00E+00	7.50E+00	0.00E+00
Receptor: 5 Composite Crit. Receptor - IP			
Distance: 0.00 (meters)		Compass Point: NA	
Nuclide	Percentage		
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40CFR190 URANIUM FUEL CYCLE DOSE REPORT

 GASEOUS DOSE SUMMARY

Report for: 2005
 Unit Range - From: 1 To: 2

=== I&P DOSE LIMIT ANALYSIS ===== QUARTER 2 =====

Quartr - Limit	Age Group	Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
Qtr 2 - Admin. Any Organ	INFANT	LIVER	1.92E-04	5.63E+00	3.41E-03
Qtr 2 - Admin. Total Body	CHILD	TBODY	1.51E-04	5.25E+00	2.87E-03

Qtr 2 - T.Spc. Any Organ INFANT LIVER 1.92E-04 7.50E+00 2.56E-03

Receptor: 5 Composite Crit. Receptor - IP
 Distance: 0.00 (meters) Compass Point: NA
 Critical Pathway: Ground Plane Deposition (GPD)
 Major Contributors (0% or greater to total)

Nuclide	Percentage
CO-60	7.02E+01
CS-137	2.98E+01

Qtr 2 - T.Spc. Total Body CHILD TBODY 1.51E-04 7.50E+00 2.01E-03

Receptor: 5 Composite Crit. Receptor - IP
 Distance: 0.00 (meters) Compass Point: NA
 Critical Pathway: Ground Plane Deposition (GPD)
 Major Contributors (0% or greater to total)

Nuclide	Percentage
CO-60	9.42E+01
CS-137	5.79E+00

40CFR190 URANIUM FUEL CYCLE DOSE REPORT

GASEOUS DOSE SUMMARY

Report for: 2005
Unit Range - From: 1 To: 2

=== NG DOSE LIMIT ANALYSIS === QUARTER 2 ===

Table with 4 columns: Quartr - Limit, Dose (mrad), Limit (mrad), Max % of Limit. Rows include Admin. Gamma, Admin. Beta, T.Spc. Gamma, and T.Spc. Beta with associated receptor and distance information.

40CFR190 URANIUM FUEL CYCLE DOSE REPORT

 GASEOUS DOSE SUMMARY

Report for: 2005
 Unit Range - From: 1 To: 2

=== I&P DOSE LIMIT ANALYSIS ===== QUARTER 3 =====

Quartr - Limit	Age Group	Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
Qtr 3 - Admin. Any Organ	ADULT	GILLI	7.47E-05	5.63E+00	1.33E-03
Qtr 3 - Admin. Total Body	CHILD	TBODY	6.58E-05	5.25E+00	1.25E-03

Qtr 3 - T.Spc. Any Organ ADULT GILLI 7.47E-05 7.50E+00 9.96E-04

Receptor: 5 Composite Crit. Receptor - IP
 Distance: 0.00 (meters) Compass Point: NA
 Critical Pathway: Ground Plane Deposition (GPD)
 Major Contributors (0% or greater to total)

Nuclide	Percentage
CO-60	1.00E+02

Qtr 3 - T.Spc. Total Body CHILD TBODY 6.58E-05 7.50E+00 8.78E-04

Receptor: 5 Composite Crit. Receptor - IP
 Distance: 0.00 (meters) Compass Point: NA
 Critical Pathway: Ground Plane Deposition (GPD)
 Major Contributors (0% or greater to total)

Nuclide	Percentage
CO-60	1.00E+02

40CFR190 URANIUM FUEL CYCLE DOSE REPORT

GASEOUS DOSE SUMMARY

Report for: 2005
Unit Range - From: 1 To: 2

=== NG DOSE LIMIT ANALYSIS === QUARTER 3 ===

Table with 4 columns: Quartr - Limit, Dose (mrad), Limit (mrad), Max % of Limit. Rows include Admin. Gamma, Admin. Beta, T.Spc. Gamma, and T.Spc. Beta with associated receptor and distance information.

40CFR190 URANIUM FUEL CYCLE DOSE REPORT

 GASEOUS DOSE SUMMARY

Report for: 2005
 Unit Range - From: 1 To: 2

=== I&P DOSE LIMIT ANALYSIS ===== QUARTER 4 =====

Quartr - Limit	Age Group	Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
Qtr 4 - Admin. Any Organ			0.00E+00	7.50E+00	0.00E+00
Qtr 4 - Admin. Total Body			0.00E+00	7.50E+00	0.00E+00

Qtr 4 - T.Spc. Any Organ 0.00E+00 7.50E+00 0.00E+00

Receptor: 5 Composite Crit. Receptor - IP
 Distance: 0.00 (meters) Compass Point: NA

Critical Pathway:
 Major Contributors (0% or greater to total)
 Nuclide Percentage

Qtr 4 - T.Spc. Total Body 0.00E+00 7.50E+00 0.00E+00

Receptor: 5 Composite Crit. Receptor - IP
 Distance: 0.00 (meters) Compass Point: NA

Critical Pathway:
 Major Cntributors (0% or greater to total)
 Nuclide Percentage

40CFR190 URANIUM FUEL CYCLE DOSE REPORT

 GASEOUS DOSE SUMMARY

Report for: 2005
 Unit Range - From: 1 To: 2

=== NG DOSE LIMIT ANALYSIS ===== QUARTER 4 =====

Quartr - Limit	Dose (mrad)	Limit (mrad)	Max % of Limit
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Qtr 4 - Admin. Gamma	0.00E+00	7.50E+00	0.00E+00
Qtr 4 - Admin. Beta	0.00E+00	7.50E+00	0.00E+00
Qtr 4 - T.Spc. Gamma	0.00E+00	7.50E+00	0.00E+00
Receptor: 5 Composite Crit. Receptor - IP			
Distance: 0.00 (meters)		Compass Point: NA	
Nuclide Percentage			

Qtr 4 - T.Spc. Beta	0.00E+00	7.50E+00	0.00E+00
Receptor: 5 Composite Crit. Receptor - IP			
Distance: 0.00 (meters)		Compass Point: NA	
Nuclide Percentage			

40CFR190 URANIUM FUEL CYCLE DOSE REPORT

 GASEOUS DOSE SUMMARY

Report for: 2005
 Unit Range - From: 1 To: 2

=== I&P DOSE LIMIT ANALYSIS ===== ANNUAL 2005 =====

Annual - Limit	Age Group	Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
2005 - Admin. Any Organ	ADULT	GILLI	9.76E-04	1.13E+01	8.67E-03
2005 - Admin. Total Body	CHILD	TBODY	8.74E-04	1.05E+01	8.32E-03

2005 - T.Spc. Any Organ ADULT GILLI 9.76E-04 1.50E+01 6.51E-03

Receptor: 5 Composite Crit. Receptor - IP
 Distance: 0.00 (meters) Compass Point: NA
 Critical Pathway: Ground Plane Deposition (GPD)
 Major Contributors (0% or greater to total)
 Nuclide Percentage

 CO-60 9.89E+01
 CS-137 1.12E+00

2005 - T.Spc. Total Body CHILD TBODY 8.74E-04 1.50E+01 5.82E-03

Receptor: 5 Composite Crit. Receptor - IP
 Distance: 0.00 (meters) Compass Point: NA
 Critical Pathway: Ground Plane Deposition (GPD)
 Major Contributors (0% or greater to total)
 Nuclide Percentage

 CO-60 9.73E+01
 CS-137 2.67E+00

40CFR190 URANIUM FUEL CYCLE DOSE REPORT

 GASEOUS DOSE SUMMARY

Report for: 2005
 Unit Range - From: 1 To: 2

=== NG DOSE LIMIT ANALYSIS =====		ANNUAL 2005 =====	
Annual - Limit	Dose (mrad)	Limit (mrad)	Max % of Limit
2005 - Admin. Gamma	0.00E+00	1.50E+01	0.00E+00
2005 - Admin. Beta	0.00E+00	1.50E+01	0.00E+00
2005 - T.Spc. Gamma	0.00E+00	1.50E+01	0.00E+00
Receptor: 5 Composite Crit. Receptor - IP			
Distance: 0.00 (meters)		Compass Point: NA	
Nuclide	Percentage		
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2005 - T.Spc. Beta	0.00E+00	1.50E+01	0.00E+00
Receptor: 5 Composite Crit. Receptor - IP			
Distance: 0.00 (meters)		Compass Point: NA	
Nuclide	Percentage		
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40CFR190 URANIUM FUEL CYCLE DOSE REPORT

Report for: 2005
Unit Range - From: 1 To: 2

=== MAXIMUM DOSE ANALYSIS === ANNUAL 2005 ===

Table with 4 columns: Dose Type, Age Group, Organ, Dose (mrem). Row 1: Any Organ, ADULT, GILLI, 9.76E-04

Liquid Receptor: NA
Gaseous Receptor: 5 Composite Crit. Receptor - IP
Distance: 0.00 (meters) Compass Point: NA

Liquid Dose: 0.00E+00 % of Total: 0.00E+00
Critical Pathway: Potable Water (PWtr)
Major Contributors (0% or greater to total)
Nuclide Percentage

Gaseous Dose: 9.76E-04 % of Total: 1.00E+02
Critical Pathway: Ground Plane Deposition (GPD)
Major Contributors (0% or greater to total)
Nuclide Percentage
CO-60 9.89E+01
CS-137 1.12E+00

=== MAXIMUM DOSE ANALYSIS === ANNUAL 2005 ===

Table with 4 columns: Dose Type, Age Group, Organ, Dose (mrem). Row 1: Total Body, CHILD, TBODY, 8.74E-04

Liquid Receptor: NA
Gaseous Receptor: 5 Composite Crit. Receptor - IP
Distance: 0.00 (meters) Compass Point: NA

Liquid Dose: 0.00E+00 % of Total: 0.00E+00
Critical Pathway: Potable Water (PWtr)
Major Contributors (0% or greater to total)
Nuclide Percentage

Gaseous Dose: 8.74E-04 % of Total: 1.00E+02
Critical Pathway: Ground Plane Deposition (GPD)
Major Contributors (0% or greater to total)
Nuclide Percentage
CO-60 9.73E+01
CS-137 2.67E+00

ZION2005010120050331QWR

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Zion Nuclear Station

Period of Record: January - March 2005
Stability Class - Extremely Unstable - 250Ft-33Ft Delta-T (F)
Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 0

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Zion Nuclear Station

Period of Record: January - March 2005
Stability Class - Moderately Unstable - 250Ft-33Ft Delta-T (F)
Winds Measured at 35 Feet

Wind Speed (in mph)
Page 1

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Wind Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	0	0	0	0	0	0
NNE	0	0	1	0	0	0	1
NE	0	0	2	2	0	0	4
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	1	0	0	0	1
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	0	4	2	0	0	6

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 0

Zion Nuclear Station

Period of Record: January - March 2005
 Stability Class - Slightly Unstable - 250Ft-33Ft Delta-T (F)
 Winds Measured at 35 Feet

Wind Direction	wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	0	0	0	0
NNE	0	0	3	1	0	0	4
NE	0	0	0	0	0	0	0

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ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	2	0	0	2
SW	0	0	0	0	0	0	0
WSW	0	0	3	1	0	0	4
W	0	0	2	2	0	0	4
WNW	0	1	7	2	0	0	10
NW	0	0	16	1	0	0	17
NNW	0	0	1	0	0	0	1
Variable	0	0	0	0	0	0	0
Total	0	1	32	9	0	0	42

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 0

Zion Nuclear Station

Period of Record: January - March 2005
 Stability Class - Neutral - 250Ft-33Ft Delta-T (F)
 Winds Measured at 35 Feet

Wind Direction	wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	2	27	62	30	1	0	122
NNE	1	18	38	17	4	0	78
NE	3	33	21	16	16	0	89
ENE	1	15	24	26	5	0	71
E	0	17	18	7	0	0	42
ESE	2	14	8	8	4	0	36
SE	3	10	18	5	0	0	36

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SSE	4	14	25	44	0	0	87
S	4	14	6	3	0	0	27
SSW	4	16	17	8	2	0	47
SW	1	18	19	10	2	0	50
WSW	5	9	23	7	0	0	44
W	3	45	51	19	0	0	118
WNW	3	43	58	8	0	0	112
NW	8	87	110	23	0	0	228
NNW	3	57	59	15	3	0	137
Variable	0	0	0	0	0	0	0
Total	47	437	557	246	37	0	1324

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 0

Zion Nuclear Station

Period of Record: January - March 2005
Stability Class - Slightly Stable - 250Ft-33Ft Delta-T (F)
Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	6	8	1	0	0	0	15
NNE	4	7	2	0	0	0	13
NE	3	5	9	1	0	0	18
ENE	0	5	15	1	0	0	21
E	3	5	8	1	0	0	17
ESE	2	8	8	8	2	0	28
SE	1	11	6	0	0	0	18
SSE	4	13	16	2	0	0	35
S	7	31	7	0	0	0	45
SSW	7	28	8	1	0	0	44
SW	13	21	10	9	0	0	53
WSW	9	24	16	4	0	2	55

ZION2005010120050331QWR

W	18	21	10	4	0	1	54
WNW	25	25	7	1	0	0	58
NW	20	28	2	0	0	0	50
NNW	4	17	1	0	0	0	22
Variable	0	0	0	0	0	0	0
Total	126	257	126	32	2	3	546

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 0

Zion Nuclear Station

Period of Record: January - March 2005
 Stability Class - Moderately Stable - 250Ft-33Ft Delta-T (F)
 winds Measured at 35 Feet

wind Direction	wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	2	0	0	0	0	0	2
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	1	0	0	0	0	1
E	0	0	0	0	0	0	0
ESE	1	0	0	0	0	0	1
SE	0	0	0	0	0	0	0
SSE	1	2	16	0	0	0	19
S	4	23	9	1	0	0	37
SSW	5	2	0	0	0	0	7
SW	11	2	0	0	0	0	13
WSW	13	2	0	0	0	0	15
W	7	6	0	0	0	0	13
WNW	6	8	0	0	0	0	14
NW	1	5	0	0	0	0	6
NNW	1	2	0	0	0	0	3

Variable	0	ZION2005010120050331QWR 0	0	0	0	0	0
Total	52	53	25	1	0	0	131

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 0

Zion Nuclear Station

Period of Record: January - March 2005
Stability Class - Extremely Stable - 250Ft-33Ft Delta-T (F)
Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	1	2	4	0	0	0	7
S	5	16	11	0	0	0	32
SSW	5	2	0	0	0	0	7
SW	5	1	0	0	0	0	6
WSW	3	2	0	0	0	0	5
W	1	8	0	0	0	0	9
WNW	1	6	0	0	0	0	7
NW	0	2	0	0	0	0	2
NNW	0	1	0	0	0	0	1
Variable	0	0	0	0	0	0	0
Total	21	40	15	0	0	0	76

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 0

ZION2005010120050331QWR

Zion Nuclear Station

Period of Record: January - March 2005
Stability Class - Extremely Unstable - 250Ft-33Ft Delta-T (F)
Winds Measured at 250 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	0	0	0	0
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 3

Zion Nuclear Station

Period of Record: January - March 2005
Stability Class - Moderately Unstable - 250Ft-33Ft Delta-T (F)
Winds Measured at 250 Feet

Wind Speed (in mph)
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Wind Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	0	0	0	0	0	0
NNE	0	0	0	1	1	0	2
NE	0	0	0	0	3	0	3
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0
WSW	0	0	0	1	0	0	1
W	0	0	0	0	0	0	0
WNW	0	0	0	0	0	0	0
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	0	0	2	4	0	6

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 3

Zion Nuclear Station

Period of Record: January - March 2005
 Stability Class - Slightly Unstable - 250Ft-33Ft Delta-T (F)
 Winds Measured at 250 Feet

Wind Direction	wind speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	0	0	0	0
NNE	0	0	0	1	3	0	4
NE	0	0	0	0	0	0	0

ZION2005010120050331QWR

ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	0	2	0	2
SW	0	0	0	2	1	0	3
WSW	0	0	0	1	0	0	1
W	0	0	1	5	1	0	7
WNW	0	0	0	9	3	0	12
NW	0	0	0	12	0	0	12
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	0	1	30	10	0	41

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 1
 Hours of missing stability measurements in all stability classes: 3

Zion Nuclear Station

Period of Record: January - March 2005
 Stability Class - Neutral - 250Ft-33Ft Delta-T (F)
 Winds Measured at 250 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	3	26	54	39	5	127
NNE	0	10	17	15	11	11	64
NE	0	12	26	19	14	21	92
ENE	0	13	13	27	14	6	73
E	1	7	6	10	3	4	31
ESE	0	8	4	10	1	4	27
SE	3	15	10	38	21	0	87

ZION2005010120050331QWR							
SSE	3	6	17	12	14	0	52
S	1	6	14	9	5	5	40
SSW	0	1	22	5	4	4	36
SW	0	4	12	15	12	3	46
WSW	0	8	19	21	13	0	61
W	0	11	38	35	20	7	111
WNW	1	9	52	62	11	6	141
NW	1	14	78	111	31	5	240
NNW	0	4	28	25	15	7	79
Variable	0	0	0	0	0	0	0
Total	10	131	382	468	228	88	1307

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 20
 Hours of missing stability measurements in all stability classes: 3

Zion Nuclear Station

Period of Record: January - March 2005
 Stability Class - Slightly Stable - 250Ft-33Ft Delta-T (F)
 Winds Measured at 250 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	2	6	6	7	0	0	21
NNE	3	5	6	3	0	0	17
NE	1	4	3	11	4	0	23
ENE	0	2	5	17	0	1	25
E	0	2	4	3	5	4	18
ESE	4	2	6	9	9	4	34
SE	3	1	11	9	6	0	30
SSE	6	8	18	15	7	3	57
S	3	8	8	9	1	0	29
SSW	1	6	15	13	6	1	42
SW	3	4	17	21	5	5	55
WSW	1	1	12	20	8	5	47

ZION2005010120050331QWR

W	3	6	13	12	5	3	42
WNW	1	9	20	18	2	0	50
NW	1	5	16	15	1	0	38
NNW	0	6	18	6	0	0	30
Variable	0	0	0	0	0	0	0
Total	32	75	178	188	59	26	558

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 13
 Hours of missing stability measurements in all stability classes: 3

Zion Nuclear Station

Period of Record: January - March 2005
 Stability Class - Moderately Stable - 250Ft-33Ft Delta-T (F)
 Winds Measured at 250 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	2	4	2	0	0	8
NNE	1	1	0	0	0	0	2
NE	0	0	2	0	0	0	2
ENE	0	1	0	0	0	0	1
E	1	0	0	0	0	0	1
ESE	2	0	0	1	0	0	3
SE	0	0	0	0	2	1	3
SSE	0	0	0	9	8	4	21
S	0	4	7	12	1	1	25
SSW	0	2	14	4	1	0	21
SW	1	2	3	0	0	0	6
WSW	0	1	6	3	1	0	11
W	0	4	2	1	0	0	7
WNW	0	0	1	4	0	0	5
NW	2	1	5	1	0	0	9
NNW	0	0	4	0	0	0	4

Variable	0	ZION2005010120050331QWR	0	0	0	0	0	0
Total	7	18	48	37	13	6	129	

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 6
Hours of missing stability measurements in all stability classes: 3

Zion Nuclear Station

Period of Record: January - March 2005
Stability Class - Extremely Stable - 250Ft-33Ft Delta-T (F)
Winds Measured at 250 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	3	0	0	0	3
NNE	0	0	0	0	0	0	0
NE	0	0	1	0	0	0	1
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	2	2
SSE	0	0	1	1	2	2	6
S	0	1	9	16	3	1	30
SSW	0	1	5	4	1	0	11
SW	0	1	5	1	0	0	7
WSW	1	0	1	0	0	0	2
W	0	1	3	1	0	0	5
WNW	1	1	2	1	0	0	5
NW	0	0	0	3	0	0	3
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	2	5	30	27	6	5	75

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 1
Hours of missing stability measurements in all stability classes: 3

ZION2005040120050630QWR

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Zion Nuclear Station

Period of Record: April - June 2005
Stability Class - Extremely Unstable - 250Ft-33Ft Delta-T (F)
Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	0	0	0	0
NNE	0	1	0	0	0	0	1
NE	0	4	0	0	0	0	4
ENE	0	0	0	0	0	0	0
E	0	2	1	0	0	0	3
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	3	0	0	0	3
SW	0	0	1	2	0	0	3
WSW	0	0	10	7	0	0	17
W	0	0	5	0	0	0	5
WNW	0	0	0	0	0	0	0
NW	0	0	1	0	0	0	1
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	7	21	9	0	0	37

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 0

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Zion Nuclear Station

Period of Record: April - June 2005
Stability Class - Moderately Unstable - 250Ft-33Ft Delta-T (F)
Winds Measured at 35 Feet

Wind Speed (in mph)
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ZION2005040120050630QWR

Wind Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	0	0	0	0	0	0
NNE	0	1	0	0	0	0	1
NE	0	3	3	0	0	0	6
ENE	0	1	1	0	0	0	2
E	0	0	0	0	0	0	0
ESE	0	0	1	0	0	0	1
SE	0	0	1	0	0	0	1
SSE	0	2	0	0	0	0	2
S	0	0	1	0	0	0	1
SSW	0	0	1	0	0	0	1
SW	0	0	2	2	0	0	4
WSW	0	1	5	2	0	0	8
W	0	2	8	1	0	0	11
WNW	0	0	3	1	0	0	4
NW	0	0	2	0	0	0	2
NNW	0	0	2	0	0	0	2
Variable	0	0	0	0	0	0	0
Total	0	10	30	6	0	0	46

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 0

Zion Nuclear Station

Period of Record: April - June 2005
 Stability Class - Slightly Unstable - 250Ft-33Ft Delta-T (F)
 Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	1	1	1	0	3
NNE	0	2	2	0	0	0	4
NE	0	7	1	0	0	0	8

ZION2005040120050630QWR

ENE	0	2	0	2	0	0	4
E	0	0	1	0	0	0	1
ESE	0	1	0	0	0	0	1
SE	0	3	1	0	0	0	4
SSE	0	4	2	0	0	0	6
S	0	2	0	0	0	0	2
SSW	0	0	0	0	0	0	0
SW	0	1	2	0	0	0	3
WSW	0	2	7	1	0	0	10
W	0	2	24	4	0	0	30
WNW	0	0	5	0	0	0	5
NW	0	0	4	3	0	0	7
NNW	0	0	4	3	0	0	7
Variable	0	0	0	0	0	0	0
Total	0	26	54	14	1	0	95

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 0

Zion Nuclear Station

Period of Record: April - June 2005
 Stability Class - Neutral - 250Ft-33Ft Delta-T (F)
 Winds Measured at 35 Feet

Wind Direction	wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	25	52	44	26	2	150
NNE	1	24	69	23	6	0	123
NE	2	17	12	7	0	0	38
ENE	7	15	4	3	0	0	29
E	8	6	5	0	0	0	19
ESE	4	20	6	2	0	0	32
SE	1	9	9	0	0	0	19

ZION2005040120050630QWR							
SSE	0	18	20	1	0	0	39
S	0	10	6	0	0	0	16
SSW	1	4	11	1	0	0	17
SW	1	12	16	5	0	0	34
WSW	0	10	32	2	0	0	44
W	3	28	54	9	0	0	94
WNW	1	13	30	1	0	0	45
NW	2	16	22	3	0	0	43
NNW	1	7	10	9	0	0	27
variable	0	0	0	0	0	0	0
Total	33	234	358	110	32	2	769

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 0

Zion Nuclear Station

Period of Record: April - June 2005
Stability Class - Slightly Stable - 250Ft-33Ft Delta-T (F)
Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	7	31	30	2	0	0	70
NNE	11	44	22	0	0	0	77
NE	7	25	4	3	0	0	39
ENE	10	20	1	1	0	0	32
E	12	24	1	0	0	0	37
ESE	2	12	3	1	0	0	18
SE	6	19	14	0	0	0	39
SSE	4	23	26	2	0	0	55
S	8	48	13	0	0	0	69
SSW	7	15	14	2	0	0	38
SW	3	22	7	0	0	0	32
WSW	4	23	9	0	0	0	36

ZION2005040120050630QWR

W	9	15	13	0	0	0	37
WNW	8	10	0	0	0	0	18
NW	5	13	0	0	0	0	18
NNW	9	14	1	0	0	0	24
Variable	0	0	0	0	0	0	0
Total	112	358	158	11	0	0	639

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 0

Zion Nuclear Station

Period of Record: April - June 2005
 Stability Class - Moderately Stable - 250Ft-33Ft Delta-T (F)
 Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	8	13	0	0	0	0	21
NNE	4	7	1	0	0	0	12
NE	3	9	1	0	0	0	13
ENE	3	9	0	0	0	0	12
E	8	9	1	0	0	0	18
ESE	4	8	1	0	0	0	13
SE	5	13	6	0	0	0	24
SSE	6	36	22	1	0	0	65
S	10	48	13	0	0	0	71
SSW	15	4	0	0	0	0	19
SW	4	8	0	0	0	0	12
WSW	9	11	1	0	0	0	21
W	11	2	0	0	0	0	13
WNW	8	9	0	0	0	0	17
NW	9	6	1	0	0	0	16
NNW	8	5	0	0	0	0	13

Variable	0	ZION2005040120050630QWR	0	0	0	0	0
Total	115	197	47	1	0	0	360

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 0

Zion Nuclear Station

Period of Record: April - June 2005
Stability Class - Extremely Stable - 250Ft-33Ft Delta-T (F)
Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	1	0	0	0	0	2
NNE	1	3	0	0	0	0	4
NE	2	0	0	0	0	0	2
ENE	1	0	3	1	0	0	5
E	2	2	3	1	0	0	8
ESE	3	5	3	2	0	0	13
SE	4	8	0	0	0	0	12
SSE	4	8	20	0	0	0	32
S	0	34	5	0	0	0	39
SSW	8	6	0	0	0	0	14
SW	6	2	0	0	0	0	8
WSW	14	3	0	0	0	0	17
W	8	3	0	0	0	0	11
WNW	8	3	0	0	0	0	11
NW	4	0	0	0	0	0	4
NNW	7	0	0	0	0	0	7
Variable	0	0	0	0	0	0	0
Total	73	78	34	4	0	0	189

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 0

ZION2005040120050630QWR

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Zion Nuclear Station

Period of Record: April - June 2005
Stability Class - Extremely Unstable - 250Ft-33Ft Delta-T (F)
Winds Measured at 250 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	0	0	0	0
NNE	0	0	1	0	0	0	1
NE	0	0	2	0	0	0	2
ENE	0	1	1	0	0	0	2
E	0	0	2	1	0	0	3
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	0	0	0	0	0	0	0
SSW	0	0	0	3	0	0	3
SW	0	0	0	1	2	0	3
WSW	0	0	0	5	9	2	16
W	0	0	0	5	1	0	6
WNW	0	0	0	0	0	0	0
NW	0	0	0	1	0	0	1
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	1	6	16	12	2	37

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 4

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Zion Nuclear Station

Period of Record: April - June 2005
Stability Class - Moderately Unstable - 250Ft-33Ft Delta-T (F)
Winds Measured at 250 Feet

Wind Speed (in mph)
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Wind Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	0	0	0	0	0	0
NNE	0	0	2	0	0	0	2
NE	0	1	0	3	0	0	4
ENE	0	1	1	1	0	0	3
E	0	0	0	0	0	0	0
ESE	0	0	1	0	0	0	1
SE	0	2	1	0	0	0	3
SSE	0	0	0	0	0	0	0
S	0	0	1	0	0	0	1
SSW	0	0	0	0	1	0	1
SW	0	0	0	2	2	0	4
WSW	0	0	1	6	3	0	10
W	0	1	1	5	3	0	10
WNW	0	0	1	1	2	0	4
NW	0	0	0	3	0	0	3
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	0	5	9	21	11	0	46

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 4

Zion Nuclear Station

Period of Record: April - June 2005
 Stability Class - Slightly Unstable - 250Ft-33Ft Delta-T (F)
 Winds Measured at 250 Feet

Wind Direction	wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	0	1	1	2
NNE	0	1	4	2	0	0	7
NE	0	1	3	2	0	0	6

ZION2005040120050630QWR

ENE	0	2	0	0	2	0	4
E	0	0	1	0	0	0	1
ESE	0	0	1	0	0	0	1
SE	0	2	4	2	0	0	8
SSE	0	0	1	2	0	0	3
S	0	0	1	0	0	0	1
SSW	0	0	0	0	0	0	0
SW	0	0	0	3	0	0	3
WSW	0	0	2	5	4	0	11
W	0	0	4	18	8	0	30
WNW	0	0	0	3	2	0	5
NW	0	0	0	3	7	0	10
NNW	0	0	0	3	0	0	3
Variable	0	0	0	0	0	0	0
Total	0	6	21	43	24	1	95

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 4

Zion Nuclear Station

Period of Record: April - June 2005
 Stability Class - Neutral - 250Ft-33Ft Delta-T (F)
 Winds Measured at 250 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	1	15	48	27	60	151
NNE	0	11	38	35	16	10	110
NE	0	6	7	5	7	4	29
ENE	1	10	8	2	5	1	27
E	1	13	11	6	0	0	31
ESE	0	13	8	2	3	0	26
SE	0	3	18	12	2	0	35

ZION2005040120050630QWR							
SSE	0	1	16	19	4	0	40
S	0	3	3	2	0	0	8
SSW	0	2	1	10	8	0	21
SW	1	2	7	16	4	1	31
WSW	0	2	5	27	9	0	43
W	0	0	25	54	17	1	97
WNW	0	5	21	26	2	0	54
NW	0	3	13	16	10	0	42
NNW	0	0	3	8	9	5	25
Variable	0	0	0	0	0	0	0
Total	3	75	199	288	123	82	770

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 4

Zion Nuclear Station

Period of Record: April - June 2005
 Stability Class - Slightly Stable - 250Ft-33Ft Delta-T (F)
 Winds Measured at 250 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	2	11	20	14	0	47
NNE	0	14	42	31	5	0	92
NE	1	20	11	2	2	3	39
ENE	1	10	17	0	3	0	31
E	2	18	7	9	0	0	36
ESE	2	15	13	9	3	0	42
SE	1	8	26	23	8	1	67
SSE	1	5	21	31	8	4	70
S	2	3	15	17	6	1	44
SSW	0	2	3	20	5	0	30
SW	0	2	9	14	6	0	31
WSW	0	3	11	20	4	0	38

ZION2005040120050630QWR

W	1	2	11	19	4	0	37
WNW	0	3	11	3	0	0	17
NW	1	3	3	6	0	0	13
NNW	0	2	8	3	0	0	13
Variable	0	0	0	0	0	0	0
Total	12	112	219	227	68	9	647

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 13
 Hours of missing stability measurements in all stability classes: 4

Zion Nuclear Station

Period of Record: April - June 2005
 Stability Class - Moderately Stable - 250Ft-33Ft Delta-T (F)
 Winds Measured at 250 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	4	3	3	0	0	10
NNE	0	5	9	3	1	0	18
NE	0	10	7	0	0	0	17
ENE	2	7	1	2	1	0	13
E	2	13	7	2	4	0	28
ESE	0	3	7	9	7	0	26
SE	1	6	11	14	8	0	40
SSE	0	8	15	37	18	0	78
S	0	2	15	15	10	0	42
SSW	1	4	14	12	0	0	31
SW	0	3	4	4	1	0	12
WSW	1	1	2	7	0	0	11
W	0	0	7	6	0	0	13
WNW	0	0	4	2	0	0	6
NW	0	1	5	7	0	0	13
NNW	1	1	6	2	0	0	10

Variable	0	ZION2005040120050630QWR	0	0	0	0	0
Total	8	68	117	125	50	0	368

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 8
Hours of missing stability measurements in all stability classes: 4

Zion Nuclear Station

Period of Record: April - June 2005
Stability Class - Extremely Stable - 250Ft-33Ft Delta-T (F)
Winds Measured at 250 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	1	0	0	0	0	1
NNE	1	4	1	1	0	0	7
NE	1	2	1	0	2	0	6
ENE	0	1	1	0	0	3	5
E	0	2	0	0	2	5	9
ESE	1	1	1	1	0	8	12
SE	1	0	5	8	5	1	20
SSE	0	1	4	4	2	0	11
S	0	7	15	27	9	0	58
SSW	0	2	13	8	1	0	24
SW	0	1	4	4	1	0	10
WSW	0	1	2	3	0	0	6
W	2	1	5	3	0	0	11
WNW	0	1	1	1	0	0	3
NW	0	1	3	2	0	0	6
NNW	1	3	1	0	0	0	5
Variable	0	0	0	0	0	0	0
Total	7	29	57	62	22	17	194

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 2
Hours of missing stability measurements in all stability classes: 4

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Zion Nuclear Station

Period of Record: July - September 2005
Stability Class - Extremely Unstable - 250Ft-33Ft Delta-T (F)
Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	1	6	0	0	7
NNE	0	10	26	0	0	0	36
NE	0	27	29	0	0	0	56
ENE	0	34	2	0	0	0	36
E	2	29	1	0	0	0	32
ESE	0	34	12	0	0	0	46
SE	0	28	15	0	0	0	43
SSE	0	8	25	0	0	0	33
S	0	7	3	0	0	0	10
SSW	0	2	18	5	0	0	25
SW	0	8	14	3	0	0	25
WSW	0	6	4	5	0	0	15
W	0	7	15	1	0	0	23
WNW	0	10	9	0	0	0	19
NW	0	4	6	0	0	0	10
NNW	0	0	1	0	0	0	1
Variable	0	0	0	0	0	0	0
Total	2	214	181	20	0	0	417

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 0

Zion Nuclear Station

Period of Record: July - September 2005
Stability Class - Moderately Unstable - 250Ft-33Ft Delta-T (F)
Winds Measured at 35 Feet

Wind Speed (in mph)
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Wind Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	1	5	2	0	0	8
NNE	1	2	11	0	0	0	14
NE	0	5	5	0	0	0	10
ENE	0	11	0	0	0	0	11
E	2	4	1	0	0	0	7
ESE	1	3	3	0	0	0	7
SE	0	7	3	0	0	0	10
SSE	0	3	9	0	0	0	12
S	1	3	1	0	0	0	5
SSW	0	2	4	0	0	0	6
SW	0	2	0	0	0	0	2
WSW	0	0	0	1	0	0	1
W	0	2	8	0	0	0	10
WNW	0	7	3	0	0	0	10
NW	0	2	1	0	0	0	3
NNW	0	3	1	0	0	0	4
Variable	0	0	0	0	0	0	0
Total	5	57	55	3	0	0	120

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 0

Zion Nuclear Station

Period of Record: July - September 2005
 Stability Class - Slightly Unstable - 250Ft-33Ft Delta-T (F)
 Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	4	16	5	0	0	26
NNE	0	18	4	0	0	0	22
NE	0	9	9	2	0	0	20

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ENE	0	4	1	3	0	0	8
E	3	3	0	0	0	0	6
ESE	0	3	4	1	0	0	8
SE	5	9	6	0	0	0	20
SSE	1	5	25	0	0	0	31
S	1	6	4	0	0	0	11
SSW	1	7	3	0	0	0	11
SW	1	2	4	1	0	0	8
WSW	0	1	2	0	0	0	3
W	0	6	4	1	0	0	11
WNW	0	6	2	0	0	0	8
NW	0	7	8	2	0	0	17
NNW	1	0	2	0	0	0	3
Variable	0	0	0	0	0	0	0
Total	14	90	94	15	0	0	213

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 0

Zion Nuclear Station

Period of Record: July - September 2005
 Stability Class - Neutral - 250Ft-33Ft Delta-T (F)
 Winds Measured at 35 Feet

Wind Direction	wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	5	36	53	15	0	0	109
NNE	2	33	20	0	0	0	55
NE	5	26	5	4	0	0	40
ENE	1	8	3	0	0	0	12
E	10	12	2	0	0	0	24
ESE	8	15	2	1	0	0	26
SE	6	21	17	0	0	0	44

		ZION	20050701	20050930	QWR			
SSE	3	30	21	5	0	0	0	59
S	6	33	6	0	0	0	0	45
SSW	6	21	14	1	0	0	0	42
SW	5	9	23	0	0	0	0	37
WSW	1	21	8	1	0	0	0	31
W	3	28	5	0	0	0	0	36
WNW	2	14	0	1	0	0	0	17
NW	2	18	5	2	0	0	0	27
NNW	1	26	7	0	0	0	0	34
Variable	0	0	0	0	0	0	0	0
Total	66	351	191	30	0	0	0	638

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 0

Zion Nuclear Station

Period of Record: July - September 2005
Stability Class - Slightly Stable - 250Ft-33Ft Delta-T (F)
Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	5	13	3	0	0	0	21
NNE	9	3	2	0	0	0	14
NE	2	3	0	0	0	0	5
ENE	4	1	0	0	0	0	5
E	3	0	0	0	0	0	3
ESE	2	6	1	0	0	0	9
SE	5	14	4	0	0	0	23
SSE	12	9	6	0	0	0	27
S	16	64	4	0	0	0	84
SSW	14	61	4	1	0	0	80
SW	15	12	2	0	0	0	29
WSW	6	25	0	0	0	0	31

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W	6	21	0	0	0	0	27
WNW	7	11	0	0	0	0	18
NW	7	23	0	0	0	0	30
NNW	18	19	0	0	0	0	37
Variable	0	0	0	0	0	0	0
Total	131	285	26	1	0	0	443

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 0

Zion Nuclear Station

Period of Record: July - September 2005
 Stability Class - Moderately Stable - 250Ft-33Ft Delta-T (F)
 Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	3	0	0	0	0	0	3
NNE	2	0	0	0	0	0	2
NE	1	1	0	0	0	0	2
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	1	0	0	0	0	0	1
SSE	1	3	0	0	0	0	4
S	1	9	0	0	0	0	10
SSW	21	14	0	0	0	0	35
SW	23	16	0	0	0	0	39
WSW	15	4	0	0	0	0	19
W	17	7	0	0	0	0	24
WNW	15	8	0	0	0	0	23
NW	18	7	0	0	0	0	25
NNW	9	2	0	0	0	0	11

Variable	0	ZION2005070120050930QWR	0	0	0	0	0
Total	127	71	0	0	0	0	198

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 0

Zion Nuclear Station

Period of Record: July - September 2005
Stability Class - Extremely Stable - 250Ft-33Ft Delta-T (F)
Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	0	0	0	0	0	0
S	1	1	0	0	0	0	2
SSW	6	1	0	0	0	0	7
SW	8	1	0	0	0	0	9
WSW	15	1	0	0	0	0	16
W	22	12	0	0	0	0	34
WNW	26	28	0	0	0	0	54
NW	7	2	0	0	0	0	9
NNW	1	0	0	0	0	0	1
variable	0	0	0	0	0	0	0
Total	86	46	0	0	0	0	132

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 0

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Zion Nuclear Station

Period of Record: July - September 2005
Stability Class - Extremely Unstable - 250Ft-33Ft Delta-T (F)
Winds Measured at 250 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	1	1	5	0	7
NNE	0	1	25	16	2	0	44
NE	0	2	30	14	2	0	48
ENE	0	9	21	3	0	0	33
E	0	10	22	2	0	0	34
ESE	0	10	25	4	0	0	39
SE	0	10	33	18	1	0	62
SSE	0	1	15	6	0	0	22
S	0	1	2	5	1	0	9
SSW	0	0	2	14	6	0	22
SW	0	1	13	11	3	0	28
WSW	0	1	4	3	6	0	14
W	0	1	10	10	4	0	25
WNW	0	1	11	9	0	0	21
NW	0	2	3	3	0	0	8
NNW	0	0	1	0	0	0	1
Variable	0	0	0	0	0	0	0
Total	0	50	218	119	30	0	417

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 35

Zion Nuclear Station

Period of Record: July - September 2005
Stability Class - Moderately Unstable - 250Ft-33Ft Delta-T (F)
Winds Measured at 250 Feet

Wind Speed (in mph)
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Wind Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	0	1	5	2	0	8
NNE	0	2	8	6	0	0	16
NE	0	1	2	4	1	0	8
ENE	0	6	3	0	0	0	9
E	0	4	3	1	0	0	8
ESE	0	2	4	0	0	0	6
SE	0	2	4	4	1	0	11
SSE	0	4	1	11	0	0	16
S	0	0	2	0	1	0	3
SSW	0	0	2	3	0	0	5
SW	0	0	2	0	0	0	2
WSW	0	0	0	0	1	0	1
W	0	1	2	5	3	0	11
WNW	0	1	5	5	0	0	11
NW	0	0	1	1	0	0	2
NNW	0	0	3	0	0	0	3
Variable	0	0	0	0	0	0	0
Total	0	23	43	45	9	0	120

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 35

Zion Nuclear Station

Period of Record: July - September 2005
 Stability Class - Slightly Unstable - 250Ft-33Ft Delta-T (F)
 Winds Measured at 250 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	2	4	12	6	0	24
NNE	0	6	19	2	0	0	27
NE	0	3	3	1	8	1	16

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ENE	0	1	1	0	3	2	7
E	0	3	3	1	0	0	7
ESE	0	0	3	2	1	1	7
SE	0	4	6	14	2	0	26
SSE	1	3	8	16	1	0	29
S	0	2	3	1	1	0	7
SSW	0	0	4	5	0	0	9
SW	0	2	1	6	1	0	10
WSW	0	1	0	2	1	0	4
W	0	1	5	4	1	0	11
WNW	0	1	6	4	0	0	11
NW	0	1	2	7	2	1	13
NNW	0	2	2	1	0	0	5
Variable	0	0	0	0	0	0	0
Total	1	32	70	78	27	5	213

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 35

Zion Nuclear Station

Period of Record: July - September 2005
 Stability Class - Neutral - 250Ft-33Ft Delta-T (F)
 Winds Measured at 250 Feet

Wind Direction	wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	2	19	49	22	8	101
NNE	0	11	28	26	5	0	70
NE	1	7	13	3	5	4	33
ENE	1	5	11	3	2	0	22
E	0	9	6	7	2	0	24
ESE	0	7	13	3	0	1	24
SE	0	10	30	13	9	0	62

ZION2005070120050930QWR							
SSE	2	4	27	19	6	0	58
S	1	4	14	17	1	0	37
SSW	1	1	6	17	5	0	30
SW	2	2	8	20	3	0	35
WSW	1	2	13	18	2	0	36
W	0	1	12	20	0	0	33
WNW	0	2	11	4	0	1	18
NW	0	2	9	11	2	2	26
NNW	1	2	7	18	0	0	28
Variable	0	0	0	0	0	0	0
Total	11	71	227	248	64	16	637

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 1
Hours of missing stability measurements in all stability classes: 35

Zion Nuclear Station

Period of Record: July - September 2005
Stability Class - Slightly Stable - 250Ft-33Ft Delta-T (F)
Winds Measured at 250 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	2	1	15	7	0	0	25
NNE	0	4	12	4	3	0	23
NE	1	3	6	1	0	0	11
ENE	1	7	1	2	0	0	11
E	1	1	3	0	0	0	5
ESE	1	1	6	4	0	0	12
SE	0	9	10	3	3	0	25
SSE	1	11	23	19	2	0	56
S	0	6	18	39	4	0	67
SSW	0	1	18	40	3	0	62
SW	0	0	12	19	0	0	31
WSW	2	2	8	16	1	0	29

ZION2005070120050930QWR

W	0	0	6	19	0	0	25
WNW	0	1	4	8	0	0	13
NW	0	0	8	5	0	0	13
NNW	1	5	13	19	0	0	38
Variable	0	0	0	0	0	0	0
Total	10	52	163	205	16	0	446

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 1
 Hours of missing stability measurements in all stability classes: 35

Zion Nuclear Station

Period of Record: July - September 2005
 Stability Class - Moderately Stable - 250Ft-33Ft Delta-T (F)
 Winds Measured at 250 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	1	8	3	0	0	12
NNE	1	7	4	0	0	0	12
NE	0	3	0	0	0	0	3
ENE	1	5	1	1	0	0	8
E	0	5	0	0	0	0	5
ESE	2	3	0	0	0	0	5
SE	1	3	2	0	0	0	6
SSE	2	10	6	1	0	0	19
S	2	6	13	15	0	0	36
SSW	2	1	8	13	0	0	24
SW	0	0	8	25	2	0	35
WSW	0	2	3	4	0	0	9
W	1	2	0	1	0	0	4
WNW	0	3	5	1	0	0	9
NW	0	1	5	3	0	0	9
NNW	0	1	1	6	0	0	8

Variable	0	ZION2005070120050930QWR 0	0	0	0	0	0
Total	12	53	64	73	2	0	204

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 1
Hours of missing stability measurements in all stability classes: 35

Zion Nuclear Station

Period of Record: July - September 2005
Stability Class - Extremely Stable - 250Ft-33Ft Delta-T (F)
Winds Measured at 250 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	6	12	0	0	0	19
NNE	1	8	4	2	0	0	15
NE	0	3	0	0	0	0	3
ENE	0	4	0	0	0	0	4
E	2	1	1	0	0	0	4
ESE	2	2	1	0	0	0	5
SE	2	0	1	0	0	0	3
SSE	0	3	0	0	0	0	3
S	1	4	2	2	0	0	9
SSW	0	5	3	3	0	0	11
SW	2	4	3	5	0	0	14
WSW	2	4	5	6	0	0	17
W	0	3	1	2	0	0	6
WNW	0	4	1	0	0	0	5
NW	0	2	0	1	0	0	3
NNW	1	1	8	2	0	0	12
Variable	0	0	0	0	0	0	0
Total	14	54	42	23	0	0	133

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 35

ZION2005100120051231QWR

□

Zion Nuclear Station

Period of Record: October - December 2005
Stability Class - Extremely Unstable - 250Ft-33Ft Delta-T (F)
Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	1	15	11	0	0	27
NNE	0	4	21	2	0	0	27
NE	0	10	15	0	0	0	25
ENE	0	8	7	0	1	0	16
E	0	8	0	0	0	0	8
ESE	0	2	2	0	0	0	4
SE	0	13	4	0	0	0	17
SSE	0	8	3	0	0	0	11
S	0	3	4	0	0	0	7
SSW	1	2	20	2	0	0	25
SW	0	8	15	12	0	0	35
WSW	0	9	40	5	6	0	60
W	0	9	41	7	2	0	59
WNW	0	7	25	2	0	0	34
NW	0	2	7	3	0	0	12
NNW	0	1	7	0	0	0	8
Variable	0	0	0	0	0	0	0
Total	1	95	226	44	9	0	375

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 0

□

Zion Nuclear Station

Period of Record: October - December 2005
Stability Class - Moderately Unstable - 250Ft-33Ft Delta-T (F)
Winds Measured at 35 Feet

Wind Speed (in mph)
Page 1

ZION2005100120051231QWR

Wind Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	2	9	4	0	0	15
NNE	0	1	2	0	0	0	3
NE	0	3	1	0	0	0	4
ENE	1	4	5	5	4	0	19
E	0	1	2	9	0	0	12
ESE	0	0	3	4	0	0	7
SE	0	0	0	0	0	0	0
SSE	0	3	2	0	0	0	5
S	1	1	2	0	0	0	4
SSW	0	0	5	1	0	0	6
SW	0	6	2	9	0	0	17
WSW	0	5	2	2	1	0	10
W	1	9	11	4	1	0	26
WNW	1	6	8	2	0	0	17
NW	1	5	5	0	1	0	12
NNW	1	1	5	3	0	0	10
Variable	0	0	0	0	0	0	0
Total	6	47	64	43	7	0	167

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 0

Zion Nuclear Station

Period of Record: October - December 2005
 Stability Class - Slightly Unstable - 250Ft-33Ft Delta-T (F)
 Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	4	15	7	0	0	26
NNE	2	9	8	1	0	0	20
NE	0	3	6	0	0	0	9

ZION2005100120051231QWR

ENE	0	4	12	2	1	0	19
E	0	4	2	5	0	0	11
ESE	0	4	6	0	0	0	10
SE	0	7	0	3	0	0	10
SSE	0	9	5	13	7	0	34
S	2	7	5	0	0	0	14
SSW	0	10	7	2	0	0	19
SW	2	9	14	14	0	0	39
WSW	3	15	31	7	5	0	61
W	2	9	28	12	0	0	51
WNW	2	16	13	3	0	0	34
NW	3	14	17	13	1	0	48
NNW	0	15	47	5	0	0	67
Variable	0	0	0	0	0	0	0
Total	16	139	216	87	14	0	472

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 0

Zion Nuclear Station

Period of Record: October - December 2005
 Stability Class - Neutral - 250Ft-33Ft Delta-T (F)
 Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	2	11	5	11	0	0	29
NNE	3	8	8	0	0	0	19
NE	0	5	7	2	0	0	14
ENE	0	11	7	1	0	0	19
E	3	3	4	0	0	0	10
ESE	0	1	3	0	0	0	4
SE	0	3	6	3	0	0	12

		ZION	20051001	20051231	QWR			
SSE	0	8	24	4	0	0	36	
S	0	17	17	7	0	0	41	
SSW	12	34	36	8	1	1	92	
SW	3	22	36	27	3	0	91	
WSW	4	25	32	4	0	0	65	
W	7	64	22	6	0	0	99	
WNW	10	21	33	1	0	0	65	
NW	8	12	12	2	0	0	34	
NNW	2	12	22	0	0	0	36	
Variable	0	0	0	0	0	0	0	
Total	54	257	274	76	4	1	666	

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 0

Zion Nuclear Station

Period of Record: October - December 2005
Stability Class - Slightly Stable - 250Ft-33Ft Delta-T (F)
Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	3	0	0	0	0	4
NNE	0	9	0	0	0	0	9
NE	0	1	0	0	0	0	1
ENE	1	2	0	0	0	0	3
E	0	1	0	0	0	0	1
ESE	0	0	2	1	0	0	3
SE	1	2	6	0	0	0	9
SSE	3	6	5	2	0	0	16
S	6	24	7	0	0	0	37
SSW	10	36	4	0	0	0	50
SW	11	14	3	0	0	0	28
WSW	4	24	8	0	0	0	36

ZION2005100120051231QWR

W	9	34	1	0	0	0	44
WNW	10	23	0	0	0	0	33
NW	3	28	2	0	0	0	33
NNW	0	7	0	0	0	0	7
Variable	0	0	0	0	0	0	0
Total	59	214	38	3	0	0	314

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 0

Zion Nuclear Station

Period of Record: October - December 2005
 Stability Class - Moderately Stable - 250Ft-33Ft Delta-T (F)
 Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	2	0	0	0	0	2
SSE	0	3	2	0	0	0	5
S	2	23	0	0	0	0	25
SSW	3	7	0	0	0	0	10
SW	3	9	0	0	0	0	12
WSW	3	4	0	0	0	0	7
W	3	14	0	0	0	0	17
WNW	4	10	0	0	0	0	14
NW	5	15	0	0	0	0	20
NNW	2	3	0	0	0	0	5

Variable	0	ZION2005100120051231QWR	0	0	0	0	0
Total	25	90	2	0	0	0	117

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 0

Zion Nuclear Station

Period of Record: October - December 2005
Stability Class - Extremely Stable - 250Ft-33Ft Delta-T (F)
Winds Measured at 35 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	0	0	0	0	0	0
NNE	0	0	0	0	0	0	0
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	0	0	0	0	0	0
SSE	0	1	2	0	0	0	3
S	0	15	0	0	0	0	15
SSW	0	1	0	0	0	0	1
SW	1	4	0	0	0	0	5
WSW	4	2	0	0	0	0	6
W	5	9	0	0	0	0	14
WNW	2	6	0	0	0	0	8
NW	0	0	0	0	0	0	0
NNW	0	0	0	0	0	0	0
Variable	0	0	0	0	0	0	0
Total	12	38	2	0	0	0	52

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 0

ZION2005100120051231QWR

Zion Nuclear Station

Period of Record: October - December2005
Stability Class - Extremely Unstable - 250Ft-33Ft Delta-T (F)
Winds Measured at 250 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	1	2	15	10	2	30
NNE	0	0	12	13	3	0	28
NE	0	2	9	13	0	0	24
ENE	0	2	5	5	1	1	14
E	0	0	7	1	0	0	8
ESE	0	1	1	2	0	0	4
SE	0	6	11	4	0	0	21
SSE	0	5	0	5	0	0	10
S	0	1	1	1	0	0	3
SSW	0	0	2	21	0	0	23
SW	1	7	6	13	10	0	37
WSW	0	2	13	26	8	7	56
W	0	1	23	31	3	8	66
WNW	0	0	8	20	7	0	35
NW	0	1	3	3	3	1	11
NNW	0	0	0	5	0	0	5
Variable	0	0	0	0	0	0	0
Total	1	29	103	178	45	19	375

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 7

Zion Nuclear Station

Period of Record: October - December2005
Stability Class - Moderately Unstable - 250Ft-33Ft Delta-T (F)
Winds Measured at 250 Feet

Wind Speed (in mph)
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ZION2005100120051231QWR

Wind Direction	1-3	4-7	8-12	13-18	19-24	> 24	Total
N	0	0	4	5	6	0	15
NNE	0	1	1	1	0	0	3
NE	0	0	1	2	1	0	4
ENE	0	1	1	9	4	5	20
E	0	0	2	3	5	2	12
ESE	0	0	0	8	0	0	8
SE	0	0	0	0	0	0	0
SSE	0	2	1	1	0	0	4
S	0	0	2	2	1	0	5
SSW	0	1	1	3	1	0	6
SW	0	3	2	1	9	1	16
WSW	0	2	4	3	3	1	13
W	0	3	7	11	0	5	26
WNW	0	5	4	4	3	2	18
NW	2	1	3	5	0	1	12
NNW	0	0	2	4	3	0	9
Variable	0	0	0	0	0	0	0
Total	2	19	35	62	36	17	171

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 7

Zion Nuclear Station

Period of Record: October - December 2005
 Stability Class - slightly Unstable - 250Ft-33Ft Delta-T (F)
 Winds Measured at 250 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	1	3	15	9	0	28
NNE	0	2	4	8	0	0	14
NE	0	1	3	7	1	0	12

ZION2005100120051231QWR

ENE	0	0	4	12	5	1	22
E	0	0	2	9	3	0	14
ESE	0	0	5	8	0	0	13
SE	0	2	8	4	4	6	24
SSE	0	2	3	3	8	5	21
S	0	4	8	3	1	0	16
SSW	0	0	4	10	2	1	17
SW	0	4	8	10	13	1	36
WSW	0	5	12	29	8	11	65
W	0	3	5	24	11	7	50
WNW	0	6	10	5	14	0	35
NW	0	6	13	14	11	7	51
NNW	1	0	10	38	12	3	64
Variable	0	0	0	0	0	0	0
Total	1	36	102	199	102	42	482

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 0
 Hours of missing stability measurements in all stability classes: 7

Zion Nuclear Station

Period of Record: October - December 2005
 stability Class - Neutral - 250Ft-33Ft Delta-T (F)
 Winds Measured at 250 Feet

Wind Direction	wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	1	3	7	7	13	0	31
NNE	0	2	4	6	4	0	16
NE	0	0	7	7	3	0	17
ENE	0	2	8	10	2	0	22
E	0	3	1	9	1	0	14
ESE	0	0	1	3	1	0	5
SE	0	0	1	6	10	4	21

	ZION	20051001	20051231	QWR			
SSE	0	0	4	9	14	1	28
S	0	2	10	25	3	7	47
SSW	1	3	11	42	14	5	76
SW	2	2	21	30	29	13	97
WSW	1	4	20	34	16	2	77
W	3	3	23	41	3	4	77
WNW	0	6	15	30	20	0	71
NW	2	4	11	24	0	2	43
NNW	0	3	5	24	8	0	40
Variable	0	0	0	0	0	0	0
Total	10	37	149	307	141	38	682

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 1
 Hours of missing stability measurements in all stability classes: 7

Zion Nuclear Station

Period of Record: October - December 2005
 Stability Class - Slightly Stable - 250Ft-33Ft Delta-T (F)
 Winds Measured at 250 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	2	4	2	0	0	8
NNE	1	2	4	0	0	0	7
NE	0	0	3	3	1	0	7
ENE	1	1	0	1	0	0	3
E	0	1	0	1	0	0	2
ESE	0	0	0	2	1	0	3
SE	0	0	0	0	5	4	9
SSE	0	1	1	6	7	0	15
S	0	3	8	9	9	1	30
SSW	0	4	12	32	2	0	50
SW	0	1	7	15	3	0	26
WSW	0	0	9	22	6	0	37

ZION2005100120051231QWR

W	0	1	8	22	2	0	33
WNW	1	2	3	19	8	0	33
NW	0	2	8	17	2	0	29
NNW	0	2	2	22	0	0	26
Variable	0	0	0	0	0	0	0
Total	3	22	69	173	46	5	318

Hours of calm in this stability class: 0
 Hours of missing wind measurements in this stability class: 2
 Hours of missing stability measurements in all stability classes: 7

Zion Nuclear Station

Period of Record: October - December 2005
 Stability Class - Moderately Stable - 250Ft-33Ft Delta-T (F)
 Winds Measured at 250 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	1	1	0	0	0	2
NNE	0	2	1	0	0	0	3
NE	0	1	2	0	0	0	3
ENE	0	0	0	0	0	0	0
E	0	2	0	0	0	0	2
ESE	0	1	0	0	0	0	1
SE	1	0	0	1	0	0	2
SSE	1	0	2	4	1	0	8
S	0	3	6	9	4	0	22
SSW	0	1	7	15	0	0	23
SW	0	0	1	2	0	0	3
WSW	0	0	1	6	0	0	7
W	0	0	2	5	1	0	8
WNW	0	0	0	6	0	0	6
NW	0	0	0	6	0	0	6
NNW	0	0	4	18	0	0	22

Variable	0	ZION2005100120051231QWR 0	0	0	0	0	0	0
Total	2	11	27	72	6	0	118	

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 7

Zion Nuclear Station

Period of Record: October - December 2005
Stability Class - Extremely Stable - 250Ft-33Ft Delta-T (F)
Winds Measured at 250 Feet

Wind Direction	Wind Speed (in mph)						Total
	1-3	4-7	8-12	13-18	19-24	> 24	
N	0	3	0	0	0	0	3
NNE	0	1	0	0	0	0	1
NE	0	0	0	0	0	0	0
ENE	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
ESE	0	0	0	0	0	0	0
SE	0	1	0	0	0	0	1
SSE	0	1	1	0	0	0	2
S	0	2	2	10	4	0	18
SSW	0	1	3	4	0	0	8
SW	0	1	0	0	3	0	4
WSW	1	1	0	1	1	0	4
W	1	0	0	0	0	0	1
WNW	0	0	1	1	0	0	2
NW	0	5	2	0	0	0	7
NNW	0	1	0	0	0	0	1
Variable	0	0	0	0	0	0	0
Total	2	17	9	16	8	0	52

Hours of calm in this stability class: 0
Hours of missing wind measurements in this stability class: 0
Hours of missing stability measurements in all stability classes: 7

Zion Nuclear Power Station
Annual Radioactive Release Report for 2005
Unit 1 (Docket Number 50-295)

Infant Receptor

Maximum Qtr. Dose (mrad, mrem)

A. Airborne

	QTR Obj.	1st Qtr.	2nd Qtr.	3 Qtr.	4 Qtr.
Gamma Air	5.0 mrad	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Beta Air	10.0 mrad	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total Body	2.5 mrem	3.12E-04	7.15E-05	3.13E-05	0.00E+00
Skin	7.5 mrem	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Organ	7.5mrem	3.52E-04	9.60E-05	3.24E-05	0.00E+00
Critical Organ		Liver	Liver	Lung	NA

Yearly Limit Total dose
10CFR 50 (mrad, % of Yearly
Appendix I mrem) Limit

10.0 mrad	0.00E+00	0
20.0 mrad	0.00E+00	0
5.0mrem	4.15E-04	0.01
15.0 mrem	0.00E+00	0
15.0 mrem	4.80E-04	0.01
	Liver	

B. Aquatic

Total Body	1.5 mrem	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Internal Organ	5.0 rem	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Critical Organ		NA	NA	NA	NA

3.0 mrem	0.00E+00	0.00E+00
10.0 mrem	0.00E+00	0.00E+00
	NA	

Zion Nuclear Power Station
 Annual Radioactive Release Report for 2005
 Unit 1 (Docket Number 50-295)

Child Receptor

Maximum Qtr. Dose (mrad, mrem)

A. Airborne

	QTR Obj.	1st Qtr.	2nd Qtr.	3 Qtr.	4 Qtr.
Gamma Air	5.0 mrad	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Beta Air	10.0 mrad	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total Body	2.5.mrem	3.28E-04	7.55E-05	3.29E-05	0.00E+00
Skin	7.5 mrem	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Organ	7.5mrem	3.40E-04	8.65E-05	3.45E-05	0.00E+00
Critical Organ		GI-Lli	Liver	NA	NA

Yearly Limit 10CFR 50 Appendix I (mrad, mrem) Total dose (mrad, mrem) % of Yearly Limit

10.0 mrad	0.00E+00	0.00
20.0 mrad	0.00E+00	0.00
5.0mrem	4.36E-04	0.01
15.0 mrem	0.00E+00	0.00
15.0 mrem	4.61E-04	0.01
	GI-Lli	

B. Aquatic

Total Body	1.5 mrem	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Internal Organ	5.0 rem	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Critical Organ		NA	NA	NA	NA

3.0 mrem	0.00E+00	0.00
10.0 mrem	0.00E+00	0.00
	NA	

Zion Nuclear Power Station
Annual Radioactive Release Report for 2005
Unit 1 (Docket Number 50-295)

Teen Receptor

Maximum Qtr. Dose (mrad, mrem)

A. Airborne

	QTR Obj.	1st Qtr.	2nd Qtr.	3 Qtr.	4 Qtr.
Gamma Air	5.0 mrad	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Beta Air	10.0 mrad	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total Body	2.5.mrem	3.21E-04	7.46E-05	3.20E-05	0.00E+00
Skin	7.5 mrem	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Organ	7.5mrem	3.61E-04	8.15E-05	3.67E-05	0.00E+00
Critical Organ		GI-Lii	GI-Lii	GI-Lii	NA

Yearly Limit 10CFR 50 Appendix I (mrad, mrem) Total dose (mrad, mrem) % of Yearly Limit

10.0 mrad	0.00E+00	0.00
20.0 mrad	0.00E+00	0.00
5.0mrem	4.28E-04	0.01
15.0 mrem	0.00E+00	0.00
15.0 mrem	4.79E-04	0.01
	GI-Lii	

B. Aquatic

Total Body	1.5 mrem	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Internal Organ	5.0 rem	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Critical Organ		NA	NA	NA	NA

3.0 mrem	0.00E+00	0.00
10.0 mrem	0.00E+00	0.00
	NA	

Zion Nuclear Power Station
Annual Radioactive Release Report for 2005
Unit 1 (Docket Number 50-295)

Adult Receptor

Maximum Qtr. Dose (mrad, mrem)

A. Airborne

	QTR Obj.	1st Qtr.	2nd Qtr.	3 Qtr.	4 Qtr.
Gamma Air	5.0 mrad	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Beta Air	10.0 mrad	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total Body	2.5.mrem	3.19E-04	7.40E-05	3.18E-05	0.00E+00
Skin	7.5 mrem	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Organ	7.5mrem	3.68E-04	8.25E-05	3.73E-05	0.00E+00
Critical Organ		GI-Lli	GI-Lli	GI-Lli	NA

Yearly Limit 10CFR 50 Appendix I (mrad, mrem)

Total dose (mrad, mrem)

% of Yearly Limit

10.0 mrad	0.00E+00	0
20.0 mrad	0.00E+00	0
5.0mrem	4.25E-04	0.01
15.0 mrem	0.00E+00	0
15.0 mrem	4.88E-04	0.01
	GI-Lli	

B. Aquatic

Total Body	1.5 mrem	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Internal Organ	5.0 rem	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Critical Organ		NA	NA	NA	NA

3.0 mrem	0.00E+00	0
10.0 mrem	0.00E+00	0
	NA	

Zion Nuclear Power Station
Annual Radioactive Release Report for 2005
Unit 2 (Docket Number 50-304)

Infant Receptor

Maximum Qtr. Dose (mrad, mrem)

A. Airborne

	QTR Obj.	1st Qtr.	2nd Qtr.	3 Qtr.	4 Qtr.
Gamma Air	5.0 mrad	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Beta Air	10.0 mrad	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total Body	2.5.mrem	3.12E-04	7.15E-05	3.13E-05	0.00E+00
Skin	7.5 mrem	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Organ	7.5mrem	3.52E-04	9.60E-05	3.24E-05	0.00E+00
Critical Organ		Liver	Liver	Lung	NA

Yearly Limit Total dose % of
10CFR 50 (mrad, Yearly
Appendix I mrem) Limit

10.0 mrad	0.00E+00	0
20.0 mrad	0.00E+00	0
5.0mrem	4.15E-04	0.01
15.0 mrem	0.00E+00	0
15.0 mrem	4.80E-04	0.01
	Liver	

B. Aquatic

Total Body	1.5 mrem	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Internal Organ	5.0 rem	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Critical Organ		NA	NA	NA	NA

3.0 mrem	0.00E+00	0.00E+00
10.0 mrem	0.00E+00	0.00E+00
	NA	

Zion Nuclear Power Station
Annual Radioactive Release Report for 2005
Unit 2 (Docket Number 50-304)

Child Receptor

Maximum Qtr. Dose (mrad, mrem)

Yearly Limit Total dose % of
10CFR 50 (mrad, Yearly
Appendix I mrem) Limit

A. Airborne

	QTR Obj.	1st Qtr.	2nd Qtr.	3 Qtr.	4 Qtr.
Gamma Air	5.0 mrad	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Beta Air	10.0 mrad	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total Body	2.5.mrem	3.28E-04	7.55E-05	3.29E-05	0.00E+00
Skin	7.5 mrem	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Organ	7.5mrem	3.40E-04	8.65E-05	3.45E-05	0.00E+00
Critical Organ		GI-Lli	Liver	NA	NA

10.0 mrad	0.00E+00	0.00
20.0 mrad	0.00E+00	0.00
5.0mrem	4.36E-04	0.01
15.0 mrem	0.00E+00	0.00
15.0 mrem	4.61E-04	0.01
	GI-Lli	

B. Aquatic

Total Body	1.5 mrem	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Internal Organ	5.0 rem	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Critical Organ		NA	NA	NA	NA

3.0 mrem	0.00E+00	0.00
10.0 mrem	0.00E+00	0.00
	NA	

Zion Nuclear Power Station
Annual Radioactive Release Report for 2005
Unit 2 (Docket Number 50-304)

Teen Receptor

Maximum Qtr. Dose (mrad, mrem)

A. Airborne

	QTR Obj.	1st Qtr.	2nd Qtr.	3 Qtr.	4 Qtr.
Gamma Air	5.0 mrad	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Beta Air	10.0 mrad	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total Body	2.5.mrem	3.21E-04	7.46E-05	3.20E-05	0.00E+00
Skin	7.5 mrem	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Organ	7.5mrem	3.61E-04	8.15E-05	3.67E-05	0.00E+00
Critical Organ		GI-Lli	GI-Lli	GI-Lli	NA

Yearly Limit Total dose % of
10CFR 50 (mrad, Yearly
Appendix I mrem) Limit

10.0 mrad	0.00E+00	0
20.0 mrad	0.00E+00	0
5.0mrem	4.28E-04	0.01
15.0 mrem	0.00E+00	0
15.0 mrem	4.79E-04	0.01
	GI-Lli	

B. Aquatic

Total Body	1.5 mrem	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Internal Organ	5.0 rem	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Critical Organ		NA	NA	NA	NA

3.0 mrem	0.00E+00	0
10.0 mrem	0.00E+00	0
	NA	

Zion Nuclear Power Station
 Annual Radioactive Release Report for 2005
 Unit 2 (Docket Number 50-304)

Adult Receptor

Maximum Qtr. Dose (mrad, mrem)

A. Airborne

	QTR Obj.	1st Qtr.	2nd Qtr.	3 Qtr.	4 Qtr.
Gamma Air	5.0 mrad	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Beta Air	10.0 mrad	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total Body	2.5.mrem	3.19E-04	7.40E-05	3.18E-05	0.00E+00
Skin	7.5 mrem	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Organ	7.5mrem	3.68E-04	8.25E-05	3.73E-05	0.00E+00
Critical Organ		GI-Lli	GI-Lli	GI-Lli	NA

Yearly Limit 10CFR 50 Appendix I Total dose (mrad, mrem) % of Yearly Limit

10.0 mrad	0.00E+00	0
20.0 mrad	0.00E+00	0
5.0mrem	4.25E-04	0.01
15.0 mrem	0.00E+00	0
15.0 mrem	4.88E-04	0.01
	GI-Lli	

B. Aquatic

Total Body	1.5 mrem	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Internal Organ	5.0 rem	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Critical Organ		NA	NA	NA	NA

3.0 mrem	0.00E+00	0
10.0 mrem	0.00E+00	0
	NA	

**ZION NUCLEAR POWER STATION
ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT FOR 2005
UNIT 1 & 2 (Docket Numbers 50-295 & 50-304)**

ADDENDUM

1. Offsite Dose Calculation Manual (ODCM)

Changes to the ODCM are required by Zion Station Permanently Defueled Technical Specification 5.6.1. and ODCM Section 12.6.3 to be submitted as part of, or concurrent with, the Annual Radioactive Effluent Release Report.

A summary of changes made to the ODCM during 2005 and an entire copy of the ODCM, current as of December 31, 2005..

2. Gaseous and Liquid Waste Treatment Systems and Process Control Program

Zion Station ODCM Section 12.6.4 requires major changes to the Gaseous and Liquid Waste Treatment Systems to be reported in the Annual Radioactive Effluent Release Report.

The Waste Gas Hold-up System was permanently vented. In Zion's defueled configuration this system is no longer applicable.

In Zion's defueled configuration, the charcoal iodine removal system is no longer applicable.

Due to radioactive decay and no means of production, radioactive iodine is not a concern at Zion.

3. Limiting Conditions of Operation (LCOs)

Zion Station ODCM Section 12.7.2 requires explanation as to why the inoperability of liquid or gaseous monitoring instrumentation was not corrected within the time specified in the ODCM to be submitted with the Annual Radioactive Effluent Release Report.

AD2005-9933 for 2RIA-PR49 and 2LP-084 (included with this report)

AD2005-0032 for 2RIA-PR49 and 2LP-084 (included with this report)

4. Liquid Holdup Tanks and Gas Storage Tanks

Zion Station ODCM Section 12.7.2 requires a description of events leading to liquid holdup tanks or gas storage tanks exceeding technical specification limits to be included in the Annual Radioactive Effluent Release Report.

There was no activity present in any gas decay tanks during 2005. The Gas Decay Tanks have been abandoned in place.

No liquid holdup tanks exceeded the limits of Permanently Defueled Technical Specifications 5.6.3 during 2005.

**ZION NUCLEAR POWER STATION
ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT FOR 2005**

ADDENDUM

5. Estimates of Total Error

The following is an estimate of the total error associated with certain total values in the Annual Radioactive Effluent Release Report. The Total error is determined by calculating the square root of the sum of the squares of the individual errors.

a. Gaseous Effluents

Sampling Error	5%
Calibration Error	10%
Counting Statistics Error	17%
<u>Sample Volume Error</u>	<u>10%</u>
Total Error	23%

b. Liquid Effluents

Sampling Error	5%
Calibration Error	10%
Counting Statistics Error	16%
<u>Sample Volume Error</u>	<u>2%</u>
Total Error	20%

Zion Nuclear Power Station Annual Effluent Release Report

Gaseous Effluent Lower Limit of Detection

Isotope	uCi/cc
Alpha	1.00E-11
H-3	1.00E-06
Kr-85	1.00E-06
Mn-54	1.00E-11
Co-58	1.00E-11
Co-60	1.00E-11
ZN-65	1.00E-11
Sr-89	1.00E-11
Sr-90	1.00E-11
Mo-99	1.00E-11
Cs-134	1.00E-11
Cs-137	1.00E-11
Ce-141	1.00E-11
Ce-144	1.00E-11

Liquid Effluents Lower Limit of Detection

Entrained Gases

Isotope	LLD uCi/ml
Kr-85m	1.00E-05
Kr-85m	1.00E-05
Kr-87	1.00E-05
Kr-88	1.00E-05
Ar-41	1.00E-05
Xe-131m	1.00E-05
Xe-133m	1.00E-05
Xe-133	1.00E-05
Xe-135m	1.00E-05
Xe-135m	1.00E-05

Principle Gamma Emitters

Isotope	LLD uCi/ml
Alpha	1.00E-07
H-3	1.00E-05
Sr-89	5.00E-08
Sr-90	5.00E-08
Fe-55	1.00E-06
Mn-54	5.00E-07
Co-58	5.00E-07
Co-60	5.00E-07
Zn-65	5.00E-07
Mo-99	5.00E-07
Cs-134	5.00E-07
Cs-137	5.00E-07
Ce-141	5.00E-07
Ce-144	5.00E-07

ZION NUCLEAR POWER STATION
ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT FOR 2005
SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

A. SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL (Not irradiated fuel)

1. Type of waste and 2. Estimate of major nuclide composition

a. Spent resins, filter sludges, evaporator bottoms, etc.

Waste Class	Volume (m ³)	Activity (Ci)	Estim. Error in Activity
A	0.00E+00	0.00E+00	2.50E+01%

Nuclide Name	Percent Abundance	Activity (Ci)
H-3	0.00E+00%	0.00E+00
C-14	0.00E+00%	0.00E+00
Cr-51	0.00E+00%	0.00E+00
Mn-54	0.00E+00%	0.00E+00
Fe-55	0.00E+00%	0.00E+00
Fe-59	0.00E+00%	0.00E+00
Co-57	0.00E+00%	0.00E+00
Co-58	0.00E+00%	0.00E+00
Co-60	0.00E+00%	0.00E+00
Ni-59	0.00E+00%	0.00E+00
Ni-63	0.00E+00%	0.00E+00
Sr-89	0.00E+00%	0.00E+00
Sr-90	0.00E+00%	0.00E+00
Zr-95	0.00E+00%	0.00E+00
Nb-95	0.00E+00%	0.00E+00
Tc-99	0.00E+00%	0.00E+00
Ag-110m	0.00E+00%	0.00E+00
Sn-113	0.00E+00%	0.00E+00
Sb-125	0.00E+00%	0.00E+00
I-129	0.00E+00%	0.00E+00
Cs-134	0.00E+00%	0.00E+00
Cs-137	0.00E+00%	0.00E+00
Ce-144	0.00E+00%	0.00E+00
Pu-238	0.00E+00%	0.00E+00
Pu-239	0.00E+00%	0.00E+00
Pu-241	0.00E+00%	0.00E+00
Pu-242	0.00E+00%	0.00E+00
Am-241	0.00E+00%	0.00E+00
Cm-242	0.00E+00%	0.00E+00
Cm-243	0.00E+00%	0.00E+00
Zn-95	0.00E+00%	0.00E+00

Waste Class	Volume (m ³)	Activity (Ci)	Estim. Error in Activity
B	0.00E+00	0.00E+00	2.50E+01%

Nuclide Name	Percent Abundance	Activity (Ci)
H-3	0.00E+00%	0.00E+00
C-14	0.00E+00%	0.00E+00
Cr-51	0.00E+00%	0.00E+00
Mn-54	0.00E+00%	0.00E+00
Fe-55	0.00E+00%	0.00E+00
Fe-59	0.00E+00%	0.00E+00
Co-57	0.00E+00%	0.00E+00
Co-58	0.00E+00%	0.00E+00
Co-60	0.00E+00%	0.00E+00
Ni-59	0.00E+00%	0.00E+00
Ni-63	0.00E+00%	0.00E+00
Sr-89	0.00E+00%	0.00E+00
Sr-90	0.00E+00%	0.00E+00
Zr-95	0.00E+00%	0.00E+00
Nb-95	0.00E+00%	0.00E+00
Tc-99	0.00E+00%	0.00E+00
Ag-110m	0.00E+00%	0.00E+00
Sn-113	0.00E+00%	0.00E+00
Sb-125	0.00E+00%	0.00E+00
I-129	0.00E+00%	0.00E+00
Cs-134	0.00E+00%	0.00E+00
Cs-137	0.00E+00%	0.00E+00
Ce-144	0.00E+00%	0.00E+00
Pu-238	0.00E+00%	0.00E+00
Pu-239	0.00E+00%	0.00E+00
Pu-241	0.00E+00%	0.00E+00
Pu-242	0.00E+00%	0.00E+00
Am-241	0.00E+00%	0.00E+00
Cm-242	0.00E+00%	0.00E+00
Cm-243	0.00E+00%	0.00E+00
Zn-95	0.00E+00%	0.00E+00

Waste Class	Volume (m ³)	Activity (Ci)	Estim. Error in Activity
C	0.00E+00	0.00E+00	2.50E+01%

Nuclide Name	Percent Abundance	Activity (Ci)
H-3	0.00E+00%	0.00E+00
C-14	0.00E+00%	0.00E+00
Cr-51	0.00E+00%	0.00E+00
Mn-54	0.00E+00%	0.00E+00
Fe-55	0.00E+00%	0.00E+00
Fe-59	0.00E+00%	0.00E+00
Co-57	0.00E+00%	0.00E+00
Co-58	0.00E+00%	0.00E+00
Co-60	0.00E+00%	0.00E+00
Ni-59	0.00E+00%	0.00E+00
Ni-63	0.00E+00%	0.00E+00
Sr-89	0.00E+00%	0.00E+00
Sr-90	0.00E+00%	0.00E+00
Zr-95	0.00E+00%	0.00E+00
Nb-95	0.00E+00%	0.00E+00
Tc-99	0.00E+00%	0.00E+00
Ag-110m	0.00E+00%	0.00E+00
Sn-113	0.00E+00%	0.00E+00
Sb-125	0.00E+00%	0.00E+00
I-129	0.00E+00%	0.00E+00
Cs-134	0.00E+00%	0.00E+00
Cs-137	0.00E+00%	0.00E+00
Ce-144	0.00E+00%	0.00E+00
Pu-238	0.00E+00%	0.00E+00
Pu-239	0.00E+00%	0.00E+00
Pu-241	0.00E+00%	0.00E+00
Pu-242	0.00E+00%	0.00E+00
Am-241	0.00E+00%	0.00E+00
Cm-242	0.00E+00%	0.00E+00
Cm-243	0.00E+00%	0.00E+00
Zn-95	0.00E+00%	0.00E+00

Waste Class	Volume (m ³)	Activity (Ci)	Estim. Error in Activity
All	0.00E+00	0.00E+00	2.50E+01%

Nuclide Name	Percent Abundance	Activity (Ci)
H-3	0.00E+00%	0.00E+00
C-14	0.00E+00%	0.00E+00
Cr-51	0.00E+00%	0.00E+00
Mn-54	0.00E+00%	0.00E+00
Fe-55	0.00E+00%	0.00E+00
Fe-59	0.00E+00%	0.00E+00
Co-57	0.00E+00%	0.00E+00
Co-58	0.00E+00%	0.00E+00
Co-60	0.00E+00%	0.00E+00
Ni-59	0.00E+00%	0.00E+00
Ni-63	0.00E+00%	0.00E+00
Sr-89	0.00E+00%	0.00E+00
Sr-90	0.00E+00%	0.00E+00
Zr-95	0.00E+00%	0.00E+00
Nb-95	0.00E+00%	0.00E+00
Tc-99	0.00E+00%	0.00E+00
Ag-110m	0.00E+00%	0.00E+00
Sn-113	0.00E+00%	0.00E+00
Sb-125	0.00E+00%	0.00E+00
I-129	0.00E+00%	0.00E+00
Cs-134	0.00E+00%	0.00E+00
Cs-137	0.00E+00%	0.00E+00
Ce-144	0.00E+00%	0.00E+00
Pu-238	0.00E+00%	0.00E+00
Pu-239	0.00E+00%	0.00E+00
Pu-241	0.00E+00%	0.00E+00
Pu-242	0.00E+00%	0.00E+00
Am-241	0.00E+00%	0.00E+00
Cm-242	0.00E+00%	0.00E+00
Cm-243	0.00E+00%	0.00E+00
Zn-95	0.00E+00%	0.00E+00

ZION NUCLEAR POWER STATION
ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT FOR 2005
SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

A. SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL (Not irradiated fuel)

1. Type of waste and 2. Estimate of major nuclide composition
 - b. Dry compressible waste, contaminated equipment, etc.

Waste Class	Volume (m ³)	Activity (Ci)	Estim. Error in Activity
A	0.00E+00	0.00E+00	2.50E+01%

Nuclide Name	Percent Abundance	Activity (Ci)
H-3	0.00E+00%	0.00E+00
C-14	0.00E+00%	0.00E+00
Cr-51	0.00E+00%	0.00E+00
Mn-54	0.00E+00%	0.00E+00
Fe-55	0.00E+00%	0.00E+00
Fe-59	0.00E+00%	0.00E+00
Co-57	0.00E+00%	0.00E+00
Co-58	0.00E+00%	0.00E+00
Co-60	0.00E+00%	0.00E+00
Ni-59	0.00E+00%	0.00E+00
Ni-63	0.00E+00%	0.00E+00
Sr-89	0.00E+00%	0.00E+00
Sr-90	0.00E+00%	0.00E+00
Zr-95	0.00E+00%	0.00E+00
Nb-95	0.00E+00%	0.00E+00
Tc-99	0.00E+00%	0.00E+00
Ag-110m	0.00E+00%	0.00E+00
Sn-113	0.00E+00%	0.00E+00
Sb-125	0.00E+00%	0.00E+00
I-129	0.00E+00%	0.00E+00
Cs-134	0.00E+00%	0.00E+00
Cs-137	0.00E+00%	0.00E+00
Ce-144	0.00E+00%	0.00E+00
Pu-238	0.00E+00%	0.00E+00
Pu-239	0.00E+00%	0.00E+00
Pu-241	0.00E+00%	0.00E+00
Pu-242	0.00E+00%	0.00E+00
Am-241	0.00E+00%	0.00E+00
Cm-242	0.00E+00%	0.00E+00
Cm-243	0.00E+00%	0.00E+00
Zn-95	0.00E+00%	0.00E+00

Waste Class	Volume (m ³)	Activity (Ci)	Estim. Error in Activity
B	0.00E+00	0.00E+00	0.00E+00%

Nuclide Name	Percent Abundance	Activity (Ci)
H-3	0.00E+00%	0.00E+00
C-14	0.00E+00%	0.00E+00
Cr-51	0.00E+00%	0.00E+00
Mn-54	0.00E+00%	0.00E+00
Fe-55	0.00E+00%	0.00E+00
Fe-59	0.00E+00%	0.00E+00
Co-57	0.00E+00%	0.00E+00
Co-58	0.00E+00%	0.00E+00
Co-60	0.00E+00%	0.00E+00
Ni-59	0.00E+00%	0.00E+00
Ni-63	0.00E+00%	0.00E+00
Sr-89	0.00E+00%	0.00E+00
Sr-90	0.00E+00%	0.00E+00
Zr-95	0.00E+00%	0.00E+00
Nb-95	0.00E+00%	0.00E+00
Tc-99	0.00E+00%	0.00E+00
Ag-110m	0.00E+00%	0.00E+00
Sn-113	0.00E+00%	0.00E+00
Sb-125	0.00E+00%	0.00E+00
I-129	0.00E+00%	0.00E+00
Cs-134	0.00E+00%	0.00E+00
Cs-137	0.00E+00%	0.00E+00
Ce-144	0.00E+00%	0.00E+00
Pu-238	0.00E+00%	0.00E+00
Pu-239	0.00E+00%	0.00E+00
Pu-241	0.00E+00%	0.00E+00
Pu-242	0.00E+00%	0.00E+00
Am-241	0.00E+00%	0.00E+00
Cm-242	0.00E+00%	0.00E+00
Cm-243	0.00E+00%	0.00E+00
Zn-95	0.00E+00%	0.00E+00

Waste Class	Volume (m ³)	Activity (Ci)	Estim. Error in Activity
C	0.00E+00	0.00E+00	0.00E+00%

Nuclide Name	Percent Abundance	Activity (Ci)
H-3	0.00E+00%	0.00E+00
C-14	0.00E+00%	0.00E+00
Cr-51	0.00E+00%	0.00E+00
Mn-54	0.00E+00%	0.00E+00
Fe-55	0.00E+00%	0.00E+00
Fe-59	0.00E+00%	0.00E+00
Co-57	0.00E+00%	0.00E+00
Co-58	0.00E+00%	0.00E+00
Co-60	0.00E+00%	0.00E+00
Ni-59	0.00E+00%	0.00E+00
Ni-63	0.00E+00%	0.00E+00
Sr-89	0.00E+00%	0.00E+00
Sr-90	0.00E+00%	0.00E+00
Zr-95	0.00E+00%	0.00E+00
Nb-95	0.00E+00%	0.00E+00
Tc-99	0.00E+00%	0.00E+00
Ag-110m	0.00E+00%	0.00E+00
Sn-113	0.00E+00%	0.00E+00
Sb-125	0.00E+00%	0.00E+00
I-129	0.00E+00%	0.00E+00
Cs-134	0.00E+00%	0.00E+00
Cs-137	0.00E+00%	0.00E+00
Ce-144	0.00E+00%	0.00E+00
Pu-238	0.00E+00%	0.00E+00
Pu-239	0.00E+00%	0.00E+00
Pu-241	0.00E+00%	0.00E+00
Pu-242	0.00E+00%	0.00E+00
Am-241	0.00E+00%	0.00E+00
Cm-242	0.00E+00%	0.00E+00
Cm-243	0.00E+00%	0.00E+00
Zn-95	0.00E+00%	0.00E+00

Waste Class	Volume (m ³)	Activity (Ci)	Estim. Error in Activity
All	0.00E+00	0.00E+00	2.50E+01%

Nuclide Name	Percent Abundance	Activity (Ci)
H-3	0.00E+00%	0.00E+00
C-14	0.00E+00%	0.00E+00
Cr-51	0.00E+00%	0.00E+00
Mn-54	0.00E+00%	0.00E+00
Fe-55	0.00E+00%	0.00E+00
Fe-59	0.00E+00%	0.00E+00
Co-57	0.00E+00%	0.00E+00
Co-58	0.00E+00%	0.00E+00
Co-60	0.00E+00%	0.00E+00
Ni-59	0.00E+00%	0.00E+00
Ni-63	0.00E+00%	0.00E+00
Sr-89	0.00E+00%	0.00E+00
Sr-90	0.00E+00%	0.00E+00
Zr-95	0.00E+00%	0.00E+00
Nb-95	0.00E+00%	0.00E+00
Tc-99	0.00E+00%	0.00E+00
Ag-110m	0.00E+00%	0.00E+00
Sn-113	0.00E+00%	0.00E+00
Sb-125	0.00E+00%	0.00E+00
I-129	0.00E+00%	0.00E+00
Cs-134	0.00E+00%	0.00E+00
Cs-137	0.00E+00%	0.00E+00
Ce-144	0.00E+00%	0.00E+00
Pu-238	0.00E+00%	0.00E+00
Pu-239	0.00E+00%	0.00E+00
Pu-241	0.00E+00%	0.00E+00
Pu-242	0.00E+00%	0.00E+00
Am-241	0.00E+00%	0.00E+00
Cm-242	0.00E+00%	0.00E+00
Cm-243	0.00E+00%	0.00E+00
Zn-95	0.00E+00%	0.00E+00

ZION NUCLEAR POWER STATION
ANNUAL RADIOACTIVE EFFLUENT REPORT FOR 2005
SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

A. SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL (Not irradiated fuel)

1. Type of waste and 2. Estimate of major nuclide composition
3. Solid Waste Disposition

No solid waste shipments were performed during 2005.

B. IRRADIATED FUEL SHIPMENTS

No irradiated fuel shipments were performed during 2005.

C. IRRADIATED COMPONENTS, CONTROL RODS, ETC.

No irradiated material shipments were performed during 2005.

ZION NUCLEAR POWER STATION
ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT FOR 2005
SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

Radioactive Waste Shipments for 2005

Shipment Date	Shipment Number	Media	Receiver	Waste Class	Container Type	Solidification Agent	Activity (Ci)	Volume (m ³)	Volume (ft ³)
1st Quarter:									
Sub totals:	0						0.0000000	0.000	0.00
2nd Quarter:									
Sub totals:	0						0.0000000	0.000	0.00
3rd Quarter:									
Sub totals:	0						0.0000000	0.000	0.00
4th Quarter:									
Sub totals:	0						0.0000000	0.000	0.00
Totals:	<u>0</u>						<u>0.0000000</u>	<u>0.000</u>	<u>0.00</u>

	Class A	Class B	Class C
Number of Shipments	0	0	0
Activity (Ci)	0.00E+00	0.00E+00	0.00E+00
Volume (m ³)	0.00E+00	0.00E+00	0.00E+00

Letter to File

Date March 21, 2005

Subject: Zion Station Plan for the Return to Service of 2RIAPR49 and 2LP-084

Issue: Thirty Day Clock Expires on March 23, 2005 at 17:15

On February 21, 2005 at 17:15 2RIAPR49 and 2LP-084 was declared Out of Service (OOS). The issue being the isokenetic sampling system could not maintain the appropriate flow to the rad monitor. The series of events that lead to this OOS are the Glycol Heat Exchanger that provides heat for the incoming air sprung a leak and had to be taken OOS to facilitate repairs. Operations had to turn the supply fan off to prevent the Auxiliary Building from freezing and throttle back on the exhaust fans to balance the airflow in the Auxiliary Building. This configuration places the effluent flow outside the operational band of the isokenetic sample panel.

The Glycol Heat Exchanger had to be sent offsite to facilitate repairs. The removal of the heat exchanger and repairs has taken several weeks to accomplish. The other issue to returning this equipment back to service is a set of rubber gaskets (called a boot). Locating these boots will require additional time, 3 weeks from the time of this letter.

Zion Radiation Protection Procedure (ZRP) 5820-12 Revision 18 and ODCM Table 12.2-3 requires that the 2RIA PR49 and 2LP-084 must be returned to service within 30 days. If the monitor is not returned to service within 30 days the station is to conduct a station review to determine the plan to return the monitor to an operable status.

The radiation monitor 2RIA-PR49 compensatory measures are:

- Install a temporary blower and monitor the blower is operable once a shift
- Record the flow on the appropriate attachment.

The flow panel 2LP-084 compensatory measures are

- Estimate the flow once a day while the release is in progress.

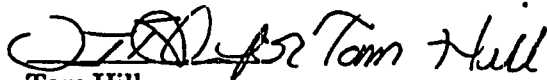
The plan to return the rad monitor and sample panel back to service is;

- Glycol Heat Exchanger to arrive onsite 4/18/2005
- Boots arrive onsite 4/18/2005
- Tech Rep to arrive onsite 4/19/2005
- Reassembly and testing to occur April 20, 21, and 22
- Return rad monitor and sample system to routine configuration 4/22/2005
- Return 2RIAPR49 and 2LP-084 back to service 4/22/2005.

The station will require vendor assistance in the assembly of the heat exchanger. The goal of this plan is to insure that the fix for this heat exchanger prevents any leakage in that the contaminated glycol represents a "Mixed Waste" that is very expensive to remediate.



Ron Schuster
RadChem Manager



Tom Hill
Maintenance Supervisor



Jim Ashley
Regulatory Assurance



Tony Orawiec
Operations

Letter to File

Date November 1, 2005

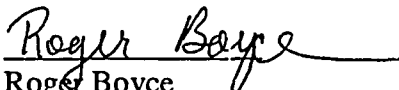
Subject: Zion Station Plan for the Return to Service of 2LP-084

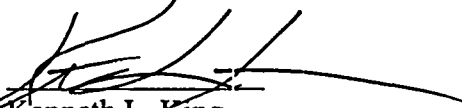
Issue: Thirty Day Clock Expires on November 2, 2005.

On October 3, 2005 2LP-084 was declared Out of Service (OOS) while performing the 18 month calibration. The calibration includes flow response from channel 10 of 2RIA-PR49. Problems with the response of channel 10 prevented the completion of the calibration.

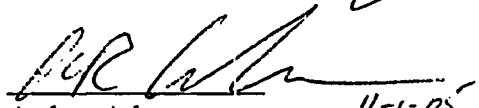
Zion Radiation Protection ODCM Table 12.2-3 requires 2LP-084 must be returned to service within 30 days. If the monitor is not returned to service within 30 days the station is to conduct a station review to determine the plan to return the monitor to an operable status.

This plan is the scheduled onsite support of a REP from Thermo Electron. He will assist with the repairs of channel 10 of 2RIA-PR49. The plan is for these repairs to allow for the completion of the calibration and the return to service of 2LP084.


Roger Boyce
Acting RadChem Manager


Kenneth L. King
Maintenance Supervisor

 11-1-05
Jim Ashley
Regulatory Assurance

 11-1-05
Arthur Adams
Operations / Engineering Manager

2005 Summary of changes made to the ODCM

Attachment 3:

For the year 2005 there were two changes made to Zion Stations ODCM. See the summary of changes below.

September 6, 2005 ODCM Chapter 12, Revision 13:

Page/Section	Change Summary
12-6/Table 12.2-1	Change surveillance number reference for the effluent continuous composite sampler from 2 to 4.
12-7/Table 12.2-1	Add Surveillance 4 requirements that are applicable when the fire sump composite sampler is declared inoperable.

September 29, 2005 ODCM Chapter 12, Revision 14:

Page/Section	Change Summary
12-10/Table 12.2-3	Clarify APPLICABLE CONDITION for ORT-AR13
12-12/Table 12.2-3	Revise Surveillance 13 requirement to address actions required when Radiation Detector ORT-AR13 is inoperable.
12-15/ Table 12.2-4	Clarify condition requiring daily ORT-AR13 source check