

40CFR190 URANIUM FUEL CYCLE DOSE REPORT

LIQUID DOSE SUMMARY

Unit 1 & 2

Report for: 2011

Unit Range - From: 1 To: 2

Liquid Receptor

=== PERIOD DOSE BY ORGAN AND AGE GROUP (mrem) === QUARTER 3 ===

Agegrp	Bone	Liver	Thyroid	Kidney	Lung	GI-LLI	Skin	TB
ADULT	2.03E-05	2.99E-02	2.96E-02	2.96E-02	2.96E-02	6.02E-02	0.00E+00	3.02E-02
TEEN	2.07E-05	2.25E-02	2.22E-02	2.22E-02	2.22E-02	4.37E-02	0.00E+00	2.28E-02
CHILD	2.50E-05	2.50E-02	2.47E-02	2.47E-02	2.47E-02	3.24E-02	0.00E+00	2.54E-02
INFANT	1.44E-07	1.10E-02	1.10E-02	1.10E-02	1.10E-02	1.10E-02	0.00E+00	1.10E-02

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

Quartr - Limit	Age Group	Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
Qtr 3 - Admin. Any Organ	ADULT	GILLI	6.02E-02	3.75E+00	1.61E+00
Qtr 3 - Admin. Total Body	ADULT	TBODY	3.02E-02	1.13E+00	2.68E+00

Qtr 3 - T.Spc. Any Organ ADULT GILLI 6.02E-02 5.00E+00 1.20E+00

Critical Pathway: Fresh Water Fish - Sport (FFSP)

Major Contributors (0% or greater to total)

Nuclide	Percentage
H-3	4.91E+01
MN-54	2.19E-01
FE-59	1.67E-01
CO-58	7.19E+00
CO-60	1.80E+00
ZR-95	1.72E-03
NB-95	4.15E+01

Qtr 3 - T.Spc. Total Body ADULT TBODY 3.02E-02 1.50E+00 2.01E+00

Critical Pathway: Fresh Water Fish - Sport (FFSP)

Major Contributors (0% or greater to total)

Nuclide	Percentage
H-3	9.79E+01
MN-54	2.72E-02
FE-59	3.84E-02
CO-58	1.59E+00
CO-60	4.23E-01
ZR-95	7.34E-07
NB-95	7.34E-03

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=== PERIOD DOSE BY ORGAN AND AGE GROUP (mrem) === QUARTER 4 ===

Agegrp	Bone	Liver	Thyroid	Kidney	Lung	GI-LLI	Skin	TB
ADULT	1.65E-04	2.83E-02	2.73E-02	2.74E-02	2.74E-02	6.88E-02	0.00E+00	2.83E-02
TEEN	1.70E-04	2.15E-02	2.05E-02	2.06E-02	2.06E-02	4.96E-02	0.00E+00	2.15E-02
CHILD	2.06E-04	2.37E-02	2.28E-02	2.29E-02	2.29E-02	3.31E-02	0.00E+00	2.39E-02
INFANT	1.73E-06	1.01E-02	1.01E-02	1.01E-02	1.01E-02	1.01E-02	0.00E+00	1.01E-02

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

Quartr - Limit	Age Group	Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
Qtr 4 - Admin. Any Organ	ADULT	GILLI	6.88E-02	3.75E+00	1.83E+00
Qtr 4 - Admin. Total Body	ADULT	TBODY	2.83E-02	1.13E+00	2.52E+00

Qtr 4 - T.Spc. Any Organ ADULT GILLI 6.88E-02 5.00E+00 1.38E+00

Critical Pathway: Fresh Water Fish - Sport (FFSP)

Major Contributors (0% or greater to total)

Nuclide	Percentage
H-3	3.96E+01
CR-51	1.84E-01
MN-54	1.39E+00
FE-59	1.77E+00
CO-58	8.75E+00
CO-60	2.15E+00
NB-95	4.61E+01

Qtr 4 - T.Spc. Total Body ADULT TBODY 2.83E-02 1.50E+00 1.89E+00

Critical Pathway: Fresh Water Fish - Sport (FFSP)

Major Contributors (0% or greater to total)

Nuclide	Percentage
H-3	9.63E+01
CR-51	1.78E-03
MN-54	2.11E-01
FE-59	4.95E-01
CO-58	2.35E+00
CO-60	6.14E-01
NB-95	9.93E-03

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=== PERIOD DOSE BY ORGAN AND AGE GROUP (mrem) ===== ANNUAL 2011 =====

Agegrp	Bone	Liver	Thyroid	Kidney	Lung	GI-LLI	Skin	TB
ADULT	9.67E-04	1.49E-01	1.46E-01	1.47E-01	1.47E-01	2.15E-01	0.00E+00	1.49E-01
TEEN	1.02E-03	1.12E-01	1.10E-01	1.10E-01	1.10E-01	1.58E-01	0.00E+00	1.12E-01
CHILD	1.31E-03	1.24E-01	1.22E-01	1.23E-01	1.23E-01	1.40E-01	0.00E+00	1.25E-01
INFANT	5.26E-06	5.43E-02	5.43E-02	5.43E-02	5.43E-02	5.44E-02	0.00E+00	5.44E-02

=== SITE DOSE LIMIT ANALYSIS ===== ANNUAL 2011 =====

Annual - Limit	Age Group	Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
2011 - Admin. Any Organ	ADULT	GILLI	2.15E-01	7.50E+00	2.87E+00
2011 - Admin. Total Body	ADULT	TBODY	1.49E-01	2.25E+00	6.62E+00
2011 - T.Spc. Any Organ	ADULT	GILLI	2.15E-01	1.00E+01	2.15E+00

Critical Pathway: Fresh Water Fish - Sport (FFSP)

Major Contributors (0% or greater to total)

Nuclide	Percentage
H-3	6.81E+01
CR-51	3.69E-02
MN-54	3.79E-01
FE-55	9.48E-02
FE-59	3.31E-01
CO-58	5.46E+00
CO-60	2.59E+00
ZR-95	1.13E-03
NB-95	2.30E+01
I-132	5.56E-06
CS-137	4.27E-03

2011 - T.Spc. Total Body ADULT TBODY 1.49E-01 3.00E+00 4.97E+00

Critical Pathway: Fresh Water Fish - Sport (FFSP)

Major Contributors (0% or greater to total)

Nuclide	Percentage
H-3	9.83E+01
CR-51	2.12E-04
MN-54	3.41E-02
FE-55	5.57E-02
FE-59	5.49E-02
CO-58	8.71E-01
CO-60	4.39E-01

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Nuclide	Percentage
ZR-95	3.48E-07
NB-95	2.94E-03
I-132	1.49E-05
CS-137	2.09E-01

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GASEOUS DOSE SUMMARY

Unit 1 & 2

Report for: 2011
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	CHILD	BONE	1.70E-01	5.63E+00	3.02E+00
Qtr 1 - Admin. Total Body	CHILD	TBODY	3.50E-02	5.25E+00	6.67E-01

Qtr 1 - T.Spc. Any Organ CHILD BONE 1.70E-01 7.50E+00 2.26E+00

Receptor: 5 Composite Crit. Receptor - IP
Distance: 800 (meters) Compass Point: SSE

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

Nuclide	Percentage
H-3	0.00E+00
C-14	1.00E+02
I-131	4.35E-03
I-132	1.01E-04
I-133	2.98E-05

Qtr 1 - T.Spc. Total Body CHILD TBODY 3.50E-02 7.50E+00 4.67E-01

Receptor: 5 Composite Crit. Receptor - IP
Distance: 800 (meters) Compass Point: SSE

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

Nuclide	Percentage
H-3	3.15E+00
C-14	9.68E+01
I-131	1.22E-02
I-132	4.78E-04
I-133	7.51E-05

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

Quartr - Limit	Dose (mrad)	Limit (mrad)	Max % of Limit
Qtr 1 - Admin. Gamma	3.04E-05	3.75E+00	8.09E-04
Qtr 1 - Admin. Beta	1.65E-05	7.50E+00	2.19E-04

Qtr 1 - T.Spc. Gamma 3.04E-05 5.00E+00 6.07E-04

Receptor: 4 Composite Crit. Receptor - NG
Distance: 800 (meters) Compass Point: SSE

Nuclide	Percentage
AR-41	2.89E+01
XE-135	1.47E+00
XE-133M	6.22E-02
XE-131M	3.21E-01
XE-133	6.93E+01

Qtr 1 - T.Spc. Beta 1.65E-05 1.00E+01 1.65E-04

Receptor: 4 Composite Crit. Receptor - NG
Distance: 800 (meters) Compass Point: SSE

Nuclide	Percentage
AR-41	4.62E+00
XE-135	8.55E-01
XE-133M	1.28E-01
XE-131M	1.03E+00
XE-133	9.34E+01

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

Quartr - Limit	Age Group	Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
Qtr 2 - Admin. Any Organ	CHILD	BONE	1.48E-01	5.63E+00	2.64E+00
Qtr 2 - Admin. Total Body	CHILD	TBODY	3.04E-02	5.25E+00	5.79E-01

Qtr 2 - T.Spc. Any Organ CHILD BONE 1.48E-01 7.50E+00 1.98E+00

Receptor: 5 Composite Crit. Receptor - IP
Distance: 800 (meters) Compass Point: SSE

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

Nuclide	Percentage
H-3	0.00E+00
C-14	1.00E+02
CO-58	3.17E-05
I-131	3.95E-03

Qtr 2 - T.Spc. Total Body CHILD TBODY 3.04E-02 7.50E+00 4.05E-01

Receptor: 5 Composite Crit. Receptor - IP
Distance: 800 (meters) Compass Point: SSE

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

Nuclide	Percentage
H-3	2.46E+00
C-14	9.75E+01
CO-58	2.70E-04
I-131	1.11E-02

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

Quartr - Limit	Dose (mrad)	Limit (mrad)	Max % of Limit
Qtr 2 - Admin. Gamma	9.39E-06	3.75E+00	2.50E-04
Qtr 2 - Admin. Beta	4.09E-06	7.50E+00	5.45E-05

Qtr 2 - T.Spc. Gamma 9.39E-06 5.00E+00 1.88E-04

Receptor: 4 Composite Crit. Receptor - NG
Distance: 800 (meters) Compass Point: SSE

Nuclide	Percentage
AR-41	3.86E+01
KR-87	5.26E-02
KR-85M	1.91E-01
XE-135	8.75E+00
XE-133M	2.21E-01
KR-88	1.58E+00
XE-133	5.07E+01

Qtr 2 - T.Spc. Beta 4.09E-06 1.00E+01 4.09E-05

Receptor: 4 Composite Crit. Receptor - NG
Distance: 800 (meters) Compass Point: SSE

Nuclide	Percentage
AR-41	7.67E+00
KR-87	4.96E-02
KR-85M	1.73E-01
XE-135	6.32E+00
XE-133M	5.65E-01
KR-88	1.72E-01
XE-133	8.50E+01

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

Quartr - Limit	Age Group	Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
Qtr 3 - Admin. Any Organ	CHILD	BONE	1.68E-01	5.63E+00	2.98E+00
Qtr 3 - Admin. Total Body	CHILD	TBODY	3.43E-02	5.25E+00	6.53E-01

Qtr 3 - T.Spc. Any Organ CHILD BONE 1.68E-01 7.50E+00 2.23E+00
Receptor: 5 Composite Crit. Receptor - IP
Distance: 800 (meters) Compass Point: SSE

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

Nuclide	Percentage
H-3	0.00E+00
C-14	1.00E+02
CO-58	9.06E-06

Qtr 3 - T.Spc. Total Body CHILD TBODY 3.43E-02 7.50E+00 4.57E-01
Receptor: 5 Composite Crit. Receptor - IP
Distance: 800 (meters) Compass Point: NA

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

Nuclide	Percentage
H-3	2.33E+00
C-14	9.77E+01
CO-58	7.75E-05

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

Quartr - Limit	Dose (mrad)	Limit (mrad)	Max % of Limit
Qtr 3 - Admin. Gamma	6.65E-06	3.75E+00	1.77E-04
Qtr 3 - Admin. Beta	1.59E-06	7.50E+00	2.11E-05
Qtr 3 - T.Spc. Gamma	6.65E-06	5.00E+00	1.33E-04

Receptor: 4 Composite Crit. Receptor - NG
 Distance: 800 (meters) Compass Point: SSE
 Nuclide Percentage

AR-41	7.61E+01
XE-135	6.48E-01
XE-133M	4.61E-02
XE-133	2.32E+01

Qtr 3 - T.Spc. Beta	1.59E-06	1.00E+01	1.59E-05
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Receptor: 4 Composite Crit. Receptor - NG
 Distance: 800 (meters) Compass Point: SSE
 Nuclide Percentage

AR-41	2.77E+01
XE-135	8.57E-01
XE-133M	2.15E-01
XE-133	7.13E+01

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

Quartr - Limit	Age Group	Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
Qtr 4 - Admin. Any Organ	CHILD	BONE	1.85E-01	5.63E+00	3.29E+00
Qtr 4 - Admin. Total Body	CHILD	TBODY	3.78E-02	5.25E+00	7.19E-01

Qtr 4 - T.Spc. Any Organ CHILD BONE 1.85E-01 7.50E+00 2.47E+00

Receptor: 5 Composite Crit. Receptor - IP
 Distance: 800 (meters) Compass Point: SSE

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

Nuclide	Percentage
H-3	0.00E+00
C-14	1.00E+02

Qtr 4 - T.Spc. Total Body CHILD TBODY 3.78E-02 7.50E+00 5.04E-01

Receptor: 5 Composite Crit. Receptor - IP
 Distance: 800 (meters) Compass Point: SSE

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

Nuclide	Percentage
H-3	1.88E+00
C-14	9.81E+01

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

Quartr - Limit	Dose (mrad)	Limit (mrad)	Max % of Limit
Qtr 4 - Admin. Gamma	3.83E-06	3.75E+00	1.02E-04
Qtr 4 - Admin. Beta	3.67E-07	7.50E+00	4.89E-06

Qtr 4 - T.Spc. Gamma 3.83E-06 5.00E+00 7.65E-05

Receptor: 4 Composite Crit. Receptor - NG
 Distance: 800 (meters) Compass Point: SSE

Nuclide	Percentage
AR-41	9.86E+01
XE-133	1.44E+00

Qtr 4 - T.Spc. Beta 3.67E-07 1.00E+01 3.67E-06

Receptor: 4 Composite Crit. Receptor - NG
 Distance: 800 (meters) Compass Point: SSE

Nuclide	Percentage
AR-41	8.90E+01
XE-133	1.10E+01

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=== I&P DOSE LIMIT ANALYSIS ===== ANNUAL 2011 =====

Annual - Limit	Age Group	Organ	Dose (mrem)	Limit (mrem)	Max % of Limit
2011 - Admin. Any Organ	CHILD	BONE	6.71E-01	1.13E+01	5.96E+00
2011 - Admin. Total Body	CHILD	TBODY	1.37E-01	1.05E+01	1.31E+00

2011 - T.Spc. Any Organ CHILD BONE 6.71E-01 1.50E+01 4.47E+00

Receptor: 5 Composite Crit. Receptor - IP
 Distance: 800 (meters) Compass Point: SSE

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

Nuclide	Percentage
H-3	0.00E+00
C-14	1.00E+02
CO-58	9.26E-06
I-131	1.97E-03
I-132	2.54E-05
I-133	7.55E-06

2011 - T.Spc. Total Body CHILD TBODY 1.37E-01 1.50E+01 9.17E-01

Receptor: 5 Composite Crit. Receptor - IP
 Distance: 800 (meters) Compass Point: SSE

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

Nuclide	Percentage
H-3	2.44E+00
C-14	9.76E+01
CO-58	7.91E-05
I-131	5.55E-03
I-132	1.22E-04
I-133	1.91E-05

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=== NG DOSE LIMIT ANALYSIS ===== ANNUAL 2011 =====

Annual - Limit	Dose (mrad)	Limit (mrad)	Max % of Limit
2011 - Admin. Gamma	5.02E-05	7.50E+00	6.70E-04
2011 - Admin. Beta	2.25E-05	1.50E+01	1.50E-04

2011 - T.Spc. Gamma 5.02E-05 1.00E+01 5.02E-04

Receptor: 4 Composite Crit. Receptor - NG
 Distance: 800 (meters) Compass Point: SSE

Nuclide	Percentage
AR-41	4.23E+01
KR-87	9.84E-03
KR-85M	3.57E-02
XE-135	2.61E+00
XE-133M	8.51E-02
KR-88	2.95E-01
XE-131M	1.94E-01
XE-133	5.45E+01

2011 - T.Spc. Beta 2.25E-05 2.00E+01 1.13E-04

Receptor: 4 Composite Crit. Receptor - NG
 Distance: 800 (meters) Compass Point: SSE

Nuclide	Percentage
AR-41	8.17E+00
KR-87	9.01E-03
KR-85M	3.14E-02
XE-135	1.83E+00
XE-133M	2.11E-01
KR-88	3.12E-02
XE-131M	7.57E-01
XE-133	8.90E+01

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=== MAXIMUM DOSE ANALYSIS ===== ANNUAL 2011 =====

Dose Type	Age Group	Organ	Dose (mrem)
Any Organ	CHILD	BONE	6.72E-01

Liquid Receptor: 0 Liquid Receptor
Gaseous Receptor: 5 Composite Crit. Receptor - IP
Distance: 800 (meters) Compass Point: SSE

Liquid Dose: 1.31E-03 % of Total: 1.95E-01
Critical Pathway: Fresh Water Fish - Sport (FFSP)
Major Contributors (0% or greater to total)

Nuclide	Percentage
H-3	0.00E+00
CR-51	0.00E+00
MN-54	0.00E+00
FE-55	5.42E+01
FE-59	8.70E+00
CO-58	0.00E+00
CO-60	0.00E+00
ZR-95	2.53E-04
NB-95	1.33E+00
I-132	2.41E-03
CS-137	3.57E+01

Gaseous Dose: 6.71E-01 % of Total: 9.98E+01
Critical Pathway: Vegetation (VEG)
Major Contributors (0% or greater to total)

Nuclide	Percentage
H-3	0.00E+00
C-14	1.00E+02
CO-58	9.26E-06
I-131	1.97E-03
I-132	2.54E-05
I-133	7.55E-06

=== MAXIMUM DOSE ANALYSIS ===== ANNUAL 2011 =====

Dose Type	Age Group	Organ	Dose (mrem)
Total Body	CHILD	TBODY	2.62E-01

Liquid Receptor: 0 Liquid Receptor
Gaseous Receptor: 5 Composite Crit. Receptor - IP
Distance: 800 (meters) Compass Point: SSE

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Liquid Dose: 1.25E-01 % of Total: 4.77E+01

Critical Pathway: Fresh Water Fish - Sport (FFSP)

Major Contributors (0% or greater to total)

Nuclide	Percentage
H-3	9.80E+01
CR-51	2.78E-04
MN-54	4.37E-02
FE-55	9.34E-02
FE-59	7.35E-02
CO-58	1.13E+00
CO-60	5.72E-01
ZR-95	5.19E-07
NB-95	3.87E-03
I-132	2.14E-05
CS-137	5.29E-02

Gaseous Dose: 1.37E-01 % of Total: 5.25E+01

Critical Pathway: Vegetation (VEG)

Major Contributors (0% or greater to total)

Nuclide	Percentage
H-3	2.44E+00
C-14	9.76E+01
CO-58	7.91E-05
I-131	5.55E-03
I-132	1.22E-04
I-133	1.91E-05

GASEOUS RELEASE AND DOSE SUMMARY REPORT - BY UNIT
(Composite Critical Receptor - Limited Analysis)

Release ID.....: 1 All Gas Release Types
 Period Start Date....: 01/01/2011 00:00
 Period End Date.....: 01/01/2012 00:00
 Period Duration (min): 5.256E+05
 Coefficient Type.....: Historical
 Unit.....: 1

=== RELEASE DATA ===
 Total Release Duration (minutes)..... 5.896E+05
 Total Release Volume (cf)..... 6.779E+10
 Average Release Flowrate (cfm)..... 1.150E+05
 Average Period Flowrate (cfm)..... 1.290E+05

=== NUCLIDE DATA ===

Nuclide	uCi	Average uCi/cc	EC Ratio	EC
AR-41	2.86E+04	1.49E-11	1.49E-03	1.00E-08
KR-85M	1.26E+02	6.55E-14	6.55E-07	1.00E-07
KR-87	6.91E+00	3.60E-15	1.80E-07	2.00E-08
KR-88	8.40E+01	4.38E-14	4.86E-06	9.00E-09
XE-131M	4.91E+01	2.56E-14	1.28E-08	2.00E-06
XE-133M	1.13E+03	5.87E-13	9.78E-07	6.00E-07
XE-133	2.44E+05	1.27E-10	2.54E-04	5.00E-07
XE-135	5.69E+03	2.96E-12	4.23E-05	7.00E-08
F&AG	2.79E+05	1.46E-10	1.79E-03	
I-131	1.91E+01	9.95E-15	4.97E-05	2.00E-10
I-132	3.48E+02	1.81E-13	9.07E-06	2.00E-08
Iodine	3.67E+02	1.91E-13	5.88E-05	
C-14	4.13E+06	2.15E-09	7.17E-01	3.00E-09
Other	4.13E+06	2.15E-09	7.17E-01	
H-3	1.54E+07	8.03E-09	8.03E-02	1.00E-07
H-3	1.54E+07	8.03E-09	8.03E-02	
Total	1.98E+07	1.03E-08	7.99E-01	

GASEOUS RELEASE AND DOSE SUMMARY REPORT - BY UNIT
(Composite Critical Receptor - Limited Analysis)

Release ID.....: 1 All Gas Release Types
 Period Start Date....: 01/01/2011 00:00
 Period End Date.....: 01/01/2012 00:00
 Period Duration (min): 5.256E+05
 Coefficient Type.....: Historical
 Unit.....: 1

=== MAXIMUM I&P DOSE FOR PERIOD =====

Limit Type	Organ Type	Age Group	Organ	Dose (mrem)	Limit Period	Limit (mrem)	Percent of Limit
Admin	Any Organ	CHILD	BONE	3.37E-01	31-day	2.25E-01	1.50E+02
					Quarter	5.63E+00	5.98E+00
					Annual	1.13E+01	2.99E+00
T.Spec	Any Organ	CHILD	BONE	3.37E-01	31-day	3.00E-01	1.12E+02
					Quarter	7.50E+00	4.49E+00
					Annual	1.50E+01	2.24E+00

Receptor.....: 5 Composite Crit. Receptor - IP
 Distance (meters).....: 800
 Compass Point.....: SSE
 Critical Pathway.....: 2 Vegetation (VEG)
 Major Contributors.....: 0.0 % or greater to total

Nuclide	Percentage
H-3	0.00E+00
C-14	1.00E+02
I-131	1.00E-03
I-132	1.85E-05

GASEOUS RELEASE AND DOSE SUMMARY REPORT - BY UNIT
(Composite Critical Receptor - Limited Analysis)

Release ID.....: 1 All Gas Release Types
 Period Start Date....: 01/01/2011 00:00
 Period End Date.....: 01/01/2012 00:00
 Period Duration (min): 5.256E+05
 Coefficient Type.....: Historical
 Unit.....: 1

=== PERIOD ORGAN DOSE BY AGE GROUP AND PATHWAY (mrem) ===								
Age/Path	Bone	Liver	Thyroid	Kidney	Lung	GI-Lli	Skin	TB
AGPD	9.09E-08	9.09E-08	9.09E-08	9.09E-08	9.09E-08	9.09E-08	0.00E+00	9.09E-08
AINHL	1.07E-03	3.59E-04	3.62E-04	3.59E-04	3.59E-04	3.59E-04	0.00E+00	3.59E-04
AVEG	5.28E-02	1.08E-02	1.09E-02	1.08E-02	1.08E-02	1.08E-02	0.00E+00	1.08E-02
ACMEAT	1.96E-02	3.96E-03	3.97E-03	3.96E-03	3.96E-03	3.96E-03	0.00E+00	3.96E-03
ACMILK	2.14E-02	4.37E-03	4.69E-03	4.37E-03	4.37E-03	4.37E-03	0.00E+00	4.37E-03
TGPD	9.09E-08	9.09E-08	9.09E-08	9.09E-08	9.09E-08	9.09E-08	0.00E+00	9.09E-08
TINHL	1.53E-03	4.46E-04	4.51E-04	4.46E-04	4.46E-04	4.46E-04	0.00E+00	4.46E-04
TVEG	8.54E-02	1.75E-02	1.75E-02	1.75E-02	1.75E-02	1.75E-02	0.00E+00	1.75E-02
TCMEAT	1.65E-02	3.33E-03	3.34E-03	3.33E-03	3.33E-03	3.33E-03	0.00E+00	3.33E-03
TCMILK	3.95E-02	8.02E-03	8.51E-03	8.02E-03	8.02E-03	8.02E-03	0.00E+00	8.02E-03
CGPD	9.09E-08	9.09E-08	9.09E-08	9.09E-08	9.09E-08	9.09E-08	0.00E+00	9.09E-08
CINHL	2.11E-03	5.37E-04	5.42E-04	5.37E-04	5.37E-04	5.37E-04	0.00E+00	5.37E-04
CVEG	2.06E-01	4.18E-02	4.19E-02	4.18E-02	4.18E-02	4.18E-02	0.00E+00	4.18E-02
CCMEAT	3.12E-02	6.27E-03	6.28E-03	6.27E-03	6.27E-03	6.27E-03	0.00E+00	6.27E-03
CCMILK	9.72E-02	1.96E-02	2.06E-02	1.96E-02	1.96E-02	1.96E-02	0.00E+00	1.96E-02
IGPD	9.09E-08	9.09E-08	9.09E-08	9.09E-08	9.09E-08	9.09E-08	0.00E+00	9.09E-08
IINHL	1.56E-03	3.94E-04	3.98E-04	3.94E-04	3.94E-04	3.94E-04	0.00E+00	3.94E-04
ICMILK	1.90E-01	4.09E-02	4.33E-02	4.09E-02	4.09E-02	4.09E-02	0.00E+00	4.09E-02
----- TOTALS -----								
ADULT	9.49E-02	1.95E-02	1.99E-02	1.95E-02	1.95E-02	1.95E-02	0.00E+00	1.95E-02
TEEN	1.43E-01	2.93E-02	2.98E-02	2.93E-02	2.93E-02	2.93E-02	0.00E+00	2.93E-02
CHILD	3.37E-01	6.82E-02	6.93E-02	6.82E-02	6.82E-02	6.82E-02	0.00E+00	6.82E-02
INFANT	1.92E-01	4.13E-02	4.37E-02	4.13E-02	4.13E-02	4.13E-02	0.00E+00	4.13E-02

=== AGE GROUP / PATHWAY DESCRIPTIONS ===		
Abbreviation	Age Group	Pathway
AGPD	ADULT	Ground Plane Deposition (GPD)
AINHL	ADULT	Inhalation (INHL)
AVEG	ADULT	Vegetation (VEG)
ACMEAT	ADULT	Grs/Cow/Meat (CMEAT)
ACMILK	ADULT	Grs/Cow/Milk (CMILK)
TGPD	TEEN	Ground Plane Deposition (GPD)
TINHL	TEEN	Inhalation (INHL)
TVEG	TEEN	Vegetation (VEG)
TCMEAT	TEEN	Grs/Cow/Meat (CMEAT)
TCMILK	TEEN	Grs/Cow/Milk (CMILK)
CGPD	CHILD	Ground Plane Deposition (GPD)
CINHL	CHILD	Inhalation (INHL)

GASEOUS RELEASE AND DOSE SUMMARY REPORT - BY UNIT
(Composite Critical Receptor - Limited Analysis)

Release ID.....: 1 All Gas Release Types
 Period Start Date....: 01/01/2011 00:00
 Period End Date.....: 01/01/2012 00:00
 Period Duration (min): 5.256E+05
 Coefficient Type.....: Historical
 Unit.....: 1

=== AGE GROUP / PATHWAY DESCRIPTIONS =====		
Abbreviation	Age Group	Pathway

CVEG	CHILD	Vegetation (VEG)
CCMEAT	CHILD	Grs/Cow/Meat (CMEAT)
CCMILK	CHILD	Grs/Cow/Milk (CMILK)
IGPD	INFANT	Ground Plane Deposition (GPD)
IINHL	INFANT	Inhalation (INHL)
ICMILK	INFANT	Grs/Cow/Milk (CMILK)

GASEOUS RELEASE AND DOSE SUMMARY REPORT - BY UNIT
(Composite Critical Receptor - Limited Analysis)

Release ID.....: 1 All Gas Release Types
 Period Start Date....: 01/01/2011 00:00
 Period End Date.....: 01/01/2012 00:00
 Period Duration (min): 5.256E+05
 Coefficient Type.....: Historical
 Unit.....: 1

=== MAXIMUM NG DOSE FOR PERIOD =====

Limit Type	Dose Type	Dose (mrad)	Limit Period	Limit (mrad)	Percent of Limit
Admin	Gamma	2.11E-05	31-day	1.50E-01	1.41E-02
			Quarter	3.75E+00	5.64E-04
			Annual	7.50E+00	2.82E-04
Admin	Beta	5.22E-06	31-day	3.00E-01	1.74E-03
			Quarter	7.50E+00	6.95E-05
			Annual	1.50E+01	3.48E-05
T.Spec	Gamma	2.11E-05	31-day	2.00E-01	1.06E-02
			Quarter	5.00E+00	4.23E-04
			Annual	1.00E+01	2.11E-04

Receptor.....: 4 Composite Crit. Receptor - NG
 Distance (meters).....: 800
 Compass Point.....: SSE
 Major Contributors.....: 0.0 % or greater to total

Nuclide	Percentage
AR-41	7.29E+01
KR-85M	4.24E-02
KR-87	1.17E-02
KR-88	3.50E-01
XE-131M	2.10E-03
XE-133M	1.01E-01
XE-133	2.36E+01
XE-135	3.00E+00

Limit Type	Dose Type	Dose (mrad)	Limit Period	Limit (mrad)	Percent of Limit
T.Spec	Beta	5.22E-06	31-day	4.00E-01	1.30E-03
			Quarter	1.00E+01	5.22E-05
			Annual	2.00E+01	2.61E-05

Receptor.....: 4 Composite Crit. Receptor - NG
 Distance (meters).....: 0.0
 Compass Point.....: 0.0
 Major Contributors.....: 0.0 % or greater to total

Nuclide	Percentage
AR-41	2.56E+01

GASEOUS RELEASE AND DOSE SUMMARY REPORT - BY UNIT
(Composite Critical Receptor - Limited Analysis)

Release ID.....: 1 All Gas Release Types
Period Start Date....: 01/01/2011 00:00
Period End Date.....: 01/01/2012 00:00
Period Duration (min): 5.256E+05
Coefficient Type.....: Historical
Unit.....: 1

Major Contributors.....: 0.0 % or greater to total

Nuclide	Percentage
-----	-----
KR-85M	6.77E-02
KR-87	1.94E-02
KR-88	6.73E-02
XE-131M	1.49E-02
XE-133M	4.56E-01
XE-133	6.99E+01
XE-135	3.83E+00

GASEOUS RELEASE AND DOSE SUMMARY REPORT - BY UNIT
(Composite Critical Receptor - Limited Analysis)

Release ID.....: 1 All Gas Release Types
 Period Start Date....: 01/01/2011 00:00
 Period End Date.....: 01/01/2012 00:00
 Period Duration (min): 5.256E+05
 Coefficient Type.....: Historical
 Unit.....: 2

=== RELEASE DATA ===
 Total Release Duration (minutes)..... 5.613E+05
 Total Release Volume (cf)..... 7.404E+10
 Average Release Flowrate (cfm)..... 1.319E+05

Average Period Flowrate (cfm)..... 1.409E+05

=== NUCLIDE DATA ===

Nuclide	uCi	Average uCi/cc	EC Ratio	EC
AR-41	1.08E+04	5.14E-12	5.14E-04	1.00E-08
KR-85M	1.26E+02	5.99E-14	5.99E-07	1.00E-07
KR-87	6.91E+00	3.29E-15	1.65E-07	2.00E-08
KR-88	8.40E+01	4.01E-14	4.45E-06	9.00E-09
XE-131M	1.07E+04	5.11E-12	2.56E-06	2.00E-06
XE-133M	1.13E+03	5.37E-13	8.96E-07	6.00E-07
XE-133	1.09E+06	5.22E-10	1.04E-03	5.00E-07
XE-135	6.08E+03	2.90E-12	4.15E-05	7.00E-08
-----	-----	-----	-----	-----
F&AG	1.12E+06	5.35E-10	1.61E-03	
I-131	5.56E+01	2.65E-14	1.33E-04	2.00E-10
I-132	6.07E+02	2.90E-13	1.45E-05	2.00E-08
I-133	1.69E+01	8.05E-15	8.05E-06	1.00E-09
-----	-----	-----	-----	-----
Iodine	6.80E+02	3.24E-13	1.55E-04	
BR-82	6.08E+00	2.90E-15	5.80E-07	5.00E-09
C-14	4.10E+06	1.96E-09	6.52E-01	3.00E-09
-----	-----	-----	-----	-----
Other	4.10E+06	1.96E-09	6.52E-01	
H-3	4.41E+07	2.10E-08	2.10E-01	1.00E-07
-----	-----	-----	-----	-----
H-3	4.41E+07	2.10E-08	2.10E-01	
CO-58	1.37E+00	6.54E-16	6.54E-07	1.00E-09
-----	-----	-----	-----	-----
P>=8	1.37E+00	6.54E-16	6.54E-07	

GASEOUS RELEASE AND DOSE SUMMARY REPORT - BY UNIT
 (Composite Critical Receptor - Limited Analysis)

Release ID.....: 1 All Gas Release Types
 Period Start Date....: 01/01/2011 00:00
 Period End Date.....: 01/01/2012 00:00
 Period Duration (min): 5.256E+05
 Coefficient Type.....: Historical
 Unit.....: 2

=== NUCLIDE DATA =====

Nuclide	uCi	Average uCi/cc	EC Ratio	EC
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
Total	4.93E+07	2.35E-08	8.64E-01	

GASEOUS RELEASE AND DOSE SUMMARY REPORT - BY UNIT
(Composite Critical Receptor - Limited Analysis)

Release ID.....: 1 All Gas Release Types
 Period Start Date....: 01/01/2011 00:00
 Period End Date.....: 01/01/2012 00:00
 Period Duration (min): 5.256E+05
 Coefficient Type.....: Historical
 Unit.....: 2

=== MAXIMUM I&P DOSE FOR PERIOD =====

Limit Type	Organ Type	Age Group	Organ	Dose (mrem)	Limit Period	Limit (mrem)	Percent of Limit
Admin	Any Organ	CHILD	BONE	3.34E-01	31-day Quarter Annual	2.25E-01 5.63E+00 1.13E+01	1.49E+02 5.94E+00 2.97E+00
T.Spec	Any Organ	CHILD	BONE	3.34E-01	31-day Quarter Annual	3.00E-01 7.50E+00 1.50E+01	1.11E+02 4.46E+00 2.23E+00

Receptor.....: 5 Composite Crit. Receptor - IP
 Distance (meters).....: 800
 Compass Point.....: SSE
 Critical Pathway.....: 2 Vegetation (VEG)
 Major Contributors.....: 0.0 % or greater to total

Nuclide	Percentage
H-3	0.00E+00
C-14	1.00E+02
CO-58	1.86E-05
I-131	2.95E-03
I-132	3.24E-05
I-133	1.51E-05

GASEOUS RELEASE AND DOSE SUMMARY REPORT - BY UNIT
(Composite Critical Receptor - Limited Analysis)

Release ID.....: 1 All Gas Release Types
 Period Start Date....: 01/01/2011 00:00
 Period End Date.....: 01/01/2012 00:00
 Period Duration (min): 5.256E+05
 Coefficient Type.....: Historical
 Unit.....: 2

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=== PERIOD ORGAN DOSE BY AGE GROUP AND PATHWAY (mrem) =====
Age/Path Bone      Liver      Thyroid  Kidney    Lung      GI-Lli    Skin      TB
-----
AGPD      2.71E-07  2.71E-07  2.71E-07  2.71E-07  2.71E-07  2.71E-07  0.00E+00  2.71E-07
AINHL     1.06E-03  6.51E-04  6.62E-04  6.51E-04  6.51E-04  6.51E-04  0.00E+00  6.51E-04
AVEG      5.25E-02  1.13E-02  1.15E-02  1.13E-02  1.13E-02  1.13E-02  0.00E+00  1.13E-02
ACMEAT    1.95E-02  4.01E-03  4.04E-03  4.01E-03  4.01E-03  4.01E-03  0.00E+00  4.01E-03
ACMILK    2.12E-02  4.52E-03  5.44E-03  4.52E-03  4.52E-03  4.52E-03  0.00E+00  4.52E-03
TGPD      2.71E-07  2.71E-07  2.71E-07  2.71E-07  2.71E-07  2.71E-07  0.00E+00  2.71E-07
TINHL     1.52E-03  7.40E-04  7.54E-04  7.40E-04  7.40E-04  7.40E-04  0.00E+00  7.40E-04
TVEG      8.48E-02  1.79E-02  1.82E-02  1.79E-02  1.79E-02  1.79E-02  0.00E+00  1.79E-02
TCMEAT    1.64E-02  3.36E-03  3.38E-03  3.36E-03  3.36E-03  3.36E-03  0.00E+00  3.36E-03
TCMILK    3.92E-02  8.20E-03  9.65E-03  8.20E-03  8.19E-03  8.19E-03  0.00E+00  8.19E-03
CGPD      2.71E-07  2.71E-07  2.71E-07  2.71E-07  2.71E-07  2.71E-07  0.00E+00  2.71E-07
CINHL     2.10E-03  7.96E-04  8.11E-04  7.96E-04  7.96E-04  7.96E-04  0.00E+00  7.96E-04
CVEG      2.05E-01  4.24E-02  4.27E-02  4.24E-02  4.24E-02  4.24E-02  0.00E+00  4.24E-02
CCMEAT    3.09E-02  6.28E-03  6.32E-03  6.28E-03  6.28E-03  6.28E-03  0.00E+00  6.28E-03
CCMILK    9.65E-02  1.98E-02  2.27E-02  1.98E-02  1.98E-02  1.98E-02  0.00E+00  1.98E-02
IGPD      2.71E-07  2.71E-07  2.71E-07  2.71E-07  2.71E-07  2.71E-07  0.00E+00  2.71E-07
IINHL     1.55E-03  5.42E-04  5.56E-04  5.42E-04  5.42E-04  5.42E-04  0.00E+00  5.42E-04
ICMILK    1.89E-01  4.12E-02  4.82E-02  4.12E-02  4.11E-02  4.11E-02  0.00E+00  4.12E-02

-----
TOTALS -----
ADULT     9.42E-02  2.05E-02  2.17E-02  2.05E-02  2.05E-02  2.05E-02  0.00E+00  2.05E-02
TEEN      1.42E-01  3.02E-02  3.19E-02  3.02E-02  3.02E-02  3.02E-02  0.00E+00  3.02E-02
CHILD     3.34E-01  6.93E-02  7.26E-02  6.93E-02  6.93E-02  6.93E-02  0.00E+00  6.93E-02
INFANT    1.90E-01  4.17E-02  4.87E-02  4.17E-02  4.17E-02  4.17E-02  0.00E+00  4.17E-02
  
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=== AGE GROUP / PATHWAY DESCRIPTIONS =====
Abbreviation  Age Group  Pathway
-----
AGPD          ADULT      Ground Plane Deposition (GPD)
AINHL         ADULT      Inhalation (INHL)
AVEG          ADULT      Vegetation (VEG)
ACMEAT        ADULT      Grs/Cow/Meat (CMEAT)
ACMILK        ADULT      Grs/Cow/Milk (CMILK)
TGPD          TEEN       Ground Plane Deposition (GPD)
TINHL         TEEN       Inhalation (INHL)
TVEG          TEEN       Vegetation (VEG)
TCMEAT        TEEN       Grs/Cow/Meat (CMEAT)
TCMILK        TEEN       Grs/Cow/Milk (CMILK)
CGPD          CHILD      Ground Plane Deposition (GPD)
CINHL         CHILD      Inhalation (INHL)
  
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GASEOUS RELEASE AND DOSE SUMMARY REPORT - BY UNIT
 (Composite Critical Receptor - Limited Analysis)

Release ID.....: 1 All Gas Release Types
 Period Start Date....: 01/01/2011 00:00
 Period End Date.....: 01/01/2012 00:00
 Period Duration (min): 5.256E+05
 Coefficient Type.....: Historical
 Unit.....: 2

=== AGE GROUP / PATHWAY DESCRIPTIONS =====		
Abbreviation	Age Group	Pathway
-----	-----	-----
CVEG	CHILD	Vegetation (VEG)
CCMEAT	CHILD	Grs/Cow/Meat (CMEAT)
CCMILK	CHILD	Grs/Cow/Milk (CMILK)
IGPD	INFANT	Ground Plane Deposition (GPD)
IINHL	INFANT	Inhalation (INHL)
ICMILK	INFANT	Grs/Cow/Milk (CMILK)

GASEOUS RELEASE AND DOSE SUMMARY REPORT - BY UNIT
(Composite Critical Receptor - Limited Analysis)

Release ID.....: 1 All Gas Release Types
 Period Start Date....: 01/01/2011 00:00
 Period End Date.....: 01/01/2012 00:00
 Period Duration (min): 5.256E+05
 Coefficient Type.....: Historical
 Unit.....: 2

=== MAXIMUM NG DOSE FOR PERIOD =====

Limit Type	Dose Type	Dose (mrad)	Limit Period	Limit (mrad)	Percent of Limit
Admin	Gamma	2.91E-05	31-day	1.50E-01	1.94E-02
			Quarter	3.75E+00	7.76E-04
			Annual	7.50E+00	3.88E-04
Admin	Beta	1.73E-05	31-day	3.00E-01	5.76E-03
			Quarter	7.50E+00	2.30E-04
			Annual	1.50E+01	1.15E-04
T.Spec	Gamma	2.91E-05	31-day	2.00E-01	1.45E-02
			Quarter	5.00E+00	5.82E-04
			Annual	1.00E+01	2.91E-04

Receptor.....: 4 Composite Crit. Receptor - NG
 Distance (meters).....: 800
 Compass Point.....: SSE
 Major Contributors.....: 0.0 % or greater to total

Nuclide	Percentage
AR-41	2.00E+01
KR-85M	3.08E-02
KR-87	8.50E-03
KR-88	2.55E-01
XE-131M	3.33E-01
XE-133M	7.35E-02
XE-133	7.70E+01
XE-135	2.33E+00

Limit Type	Dose Type	Dose (mrad)	Limit Period	Limit (mrad)	Percent of Limit
T.Spec	Beta	1.73E-05	31-day	4.00E-01	4.32E-03
			Quarter	1.00E+01	1.73E-04
			Annual	2.00E+01	8.64E-05

Receptor.....: 4 Composite Crit. Receptor - NG
 Distance (meters).....: 800
 Compass Point.....: SSE
 Major Contributors.....: 0.0 % or greater to total

Nuclide	Percentage
AR-41	2.91E+00

GASEOUS RELEASE AND DOSE SUMMARY REPORT - BY UNIT
(Composite Critical Receptor - Limited Analysis)

Release ID.....: 1 All Gas Release Types
Period Start Date....: 01/01/2011 00:00
Period End Date.....: 01/01/2012 00:00
Period Duration (min): 5.256E+05
Coefficient Type.....: Historical
Unit.....: 2

Major Contributors.....: 0.0 % or greater to total

Nuclide	Percentage
KR-85M	2.04E-02
KR-87	5.87E-03
KR-88	2.03E-02
XE-131M	9.81E-01
XE-133M	1.38E-01
XE-133	9.47E+01
XE-135	1.23E+00

LIQUID RELEASE AND DOSE SUMMARY REPORT
 ----- (PERIOD BASIS - BY UNIT) -----

Release ID.....: 1 All Liquid Releases
 Period Start Date.....: 01/01/2011 00:00
 Period End Date.....: 01/01/2012 00:00
 Period Duration (mins): 5.256E+05
 Unit.....: 1

=== MULTIPLE RELEASE POINT MESSAGE =====
 Undiluted and Diluted Flowrate(s) and Concentration(s) cannot be combined.

=== RELEASE DATA =====
 Total Release Duration (minutes)..... 5.407E+05
 Total Undiluted Volume Released (gallons)..... NA
 Average Undiluted Flowrate (gpm)..... NA

Total Dilution Volume (gallons)..... NA
 Average Dilution Flowrate (gpm)..... NA

=== NUCLIDE DATA =====

Nuclide	uCi
-----	-----
CO-57	1.46E+01
SN-113	2.21E+01
SB-125	1.92E+02
TE-123M	1.44E+01
SB-126	1.42E+00
CR-51	3.48E+02
MN-54	8.55E+01
FE-59	1.23E+02
CO-58	9.07E+03
CO-60	1.62E+03
ZR-95	1.27E+01
NB-95	4.61E+01
I-132	4.49E+00
CS-137	1.28E+00
-----	-----
Gamma	1.16E+04
XE-133	6.15E+02
-----	-----
D&EG	6.15E+02
H-3	1.29E+09
FE-55	1.10E+03
-----	-----
Beta	1.29E+09
-----	-----
Total	1.29E+09

LIQUID RELEASE AND DOSE SUMMARY REPORT
 ----- (PERIOD BASIS - BY UNIT) -----

Release ID.....: 1 All Liquid Releases
 Period Start Date.....: 01/01/2011 00:00
 Period End Date.....: 01/01/2012 00:00
 Period Duration (mins): 5.256E+05
 Unit.....: 1
 Receptor.....: 0 Liquid Receptor

=== PERMIT ORGAN DOSE BY AGE GROUP AND PATHWAY (mrem) ===

Age/Path	Bone	Liver	Thyroid	Kidney	Lung	GI-Lli	Skin	TB
APWtr	1.08E-06	2.05E-02	2.04E-02	2.04E-02	2.04E-02	2.05E-02	0.00E+00	2.05E-02
AFWFSp	4.82E-04	5.39E-02	5.28E-02	5.29E-02	5.29E-02	8.70E-02	0.00E+00	5.40E-02
TPWtr	1.03E-06	1.44E-02	1.44E-02	1.44E-02	1.44E-02	1.44E-02	0.00E+00	1.44E-02
TFWFSp	5.08E-04	4.17E-02	4.05E-02	4.07E-02	4.07E-02	6.45E-02	0.00E+00	4.17E-02
CPWtr	3.11E-06	2.77E-02	2.77E-02	2.77E-02	2.77E-02	2.77E-02	0.00E+00	2.77E-02
CFWFSp	6.51E-04	3.45E-02	3.36E-02	3.37E-02	3.37E-02	4.21E-02	0.00E+00	3.48E-02
IPWtr	2.63E-06	2.72E-02	2.72E-02	2.72E-02	2.72E-02	2.72E-02	0.00E+00	2.72E-02

	TOTALS							
ADULT	4.84E-04	7.43E-02	7.32E-02	7.34E-02	7.34E-02	1.08E-01	0.00E+00	7.45E-02
TEEN	5.09E-04	5.61E-02	5.50E-02	5.51E-02	5.51E-02	7.90E-02	0.00E+00	5.61E-02
CHILD	6.54E-04	6.22E-02	6.12E-02	6.14E-02	6.14E-02	6.98E-02	0.00E+00	6.25E-02
INFANT	2.63E-06	2.72E-02	2.72E-02	2.72E-02	2.72E-02	2.72E-02	0.00E+00	2.72E-02

=== AGE GROUP / PATHWAY DESCRIPTIONS ===

Abbreviation	Age Group	Pathway
APWtr	ADULT	Potable Water (PWtr)
AFWFSp	ADULT	Fresh Water Fish - Sport (FFSP)
TPWtr	TEEN	Potable Water (PWtr)
TFWFSp	TEEN	Fresh Water Fish - Sport (FFSP)
CPWtr	CHILD	Potable Water (PWtr)
CFWFSp	CHILD	Fresh Water Fish - Sport (FFSP)
IPWtr	INFANT	Potable Water (PWtr)

LIQUID RELEASE AND DOSE SUMMARY REPORT
 ----- (PERIOD BASIS - BY UNIT) -----

Release ID.....: 1 All Liquid Releases
 Period Start Date.....: 01/01/2011 00:00
 Period End Date.....: 01/01/2012 00:00
 Period Duration (mins): 5.256E+05
 Unit.....: 1
 Receptor.....: 0 Liquid Receptor

=== PERMIT ORGAN DOSE BY AGE GROUP AND NUCLIDE (mrem) =====								
Agegroup	Bone	Liver	Thyroid	Kidney	Lung	GI-Lli	Skin	TB

ADULT								
H-3	0.00E+00	7.32E-02	7.32E-02	7.32E-02	7.32E-02	7.32E-02	0.00E+00	7.32E-02
CR-51	0.00E+00	0.00E+00	9.42E-08	3.47E-08	2.09E-07	3.96E-05	0.00E+00	1.58E-07
MN-54	0.00E+00	1.33E-04	0.00E+00	3.96E-05	0.00E+00	4.08E-04	0.00E+00	2.54E-05
FE-55	2.57E-04	1.78E-04	0.00E+00	0.00E+00	9.92E-05	1.02E-04	0.00E+00	4.15E-05
FE-59	4.54E-05	1.07E-04	0.00E+00	0.00E+00	2.98E-05	3.56E-04	0.00E+00	4.09E-05
CO-58	0.00E+00	2.89E-04	0.00E+00	0.00E+00	0.00E+00	5.86E-03	0.00E+00	6.49E-04
CO-60	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	2.78E-03	0.00E+00	3.27E-04
ZR-95	1.19E-09	3.83E-10	0.00E+00	6.01E-10	0.00E+00	1.21E-06	0.00E+00	2.59E-10
NB-95	7.32E-06	4.07E-06	0.00E+00	4.02E-06	0.00E+00	2.47E-02	0.00E+00	2.19E-06
I-132	1.19E-08	3.18E-08	1.11E-06	5.07E-08	0.00E+00	5.97E-09	0.00E+00	1.11E-08
CS-137	1.73E-04	2.37E-04	0.00E+00	8.06E-05	2.68E-05	4.59E-06	0.00E+00	1.55E-04
TEEN								
H-3	0.00E+00	5.50E-02	5.50E-02	5.50E-02	5.50E-02	5.50E-02	0.00E+00	5.50E-02
CR-51	0.00E+00	0.00E+00	9.03E-08	3.56E-08	2.32E-07	2.73E-05	0.00E+00	1.63E-07
MN-54	0.00E+00	1.31E-04	0.00E+00	3.90E-05	0.00E+00	2.68E-04	0.00E+00	2.60E-05
FE-55	2.69E-04	1.91E-04	0.00E+00	0.00E+00	1.21E-04	8.27E-05	0.00E+00	4.45E-05
FE-59	4.68E-05	1.09E-04	0.00E+00	0.00E+00	3.44E-05	2.58E-04	0.00E+00	4.22E-05
CO-58	0.00E+00	2.88E-04	0.00E+00	0.00E+00	0.00E+00	3.96E-03	0.00E+00	6.63E-04
CO-60	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	1.93E-03	0.00E+00	3.34E-04
ZR-95	1.22E-09	3.86E-10	0.00E+00	5.67E-10	0.00E+00	8.91E-07	0.00E+00	2.65E-10
NB-95	7.37E-06	4.09E-06	0.00E+00	3.96E-06	0.00E+00	1.75E-02	0.00E+00	2.25E-06
I-132	1.24E-08	3.25E-08	1.10E-06	5.12E-08	0.00E+00	1.42E-08	0.00E+00	1.17E-08
CS-137	1.86E-04	2.47E-04	0.00E+00	8.41E-05	3.27E-05	3.52E-06	0.00E+00	8.61E-05
CHILD								
H-3	0.00E+00	6.12E-02	6.12E-02	6.12E-02	6.12E-02	6.12E-02	0.00E+00	6.12E-02
CR-51	0.00E+00	0.00E+00	9.64E-08	2.63E-08	1.76E-07	9.21E-06	0.00E+00	1.74E-07
MN-54	0.00E+00	1.02E-04	0.00E+00	2.87E-05	0.00E+00	8.60E-05	0.00E+00	2.73E-05
FE-55	3.55E-04	1.88E-04	0.00E+00	0.00E+00	1.06E-04	3.49E-05	0.00E+00	5.83E-05
FE-59	5.69E-05	9.21E-05	0.00E+00	0.00E+00	2.67E-05	9.59E-05	0.00E+00	4.59E-05
CO-58	0.00E+00	2.32E-04	0.00E+00	0.00E+00	0.00E+00	1.35E-03	0.00E+00	7.09E-04
CO-60	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	6.71E-04	0.00E+00	3.58E-04
ZR-95	1.66E-09	3.64E-10	0.00E+00	5.21E-10	0.00E+00	3.80E-07	0.00E+00	3.24E-10
NB-95	8.70E-06	3.39E-06	0.00E+00	3.18E-06	0.00E+00	6.27E-03	0.00E+00	2.42E-06
I-132	1.58E-08	2.90E-08	1.35E-06	4.44E-08	0.00E+00	3.41E-08	0.00E+00	1.33E-08
CS-137	2.34E-04	2.24E-04	0.00E+00	7.30E-05	2.63E-05	1.40E-06	0.00E+00	3.30E-05

LIQUID RELEASE AND DOSE SUMMARY REPORT
 ----- (PERIOD BASIS - BY UNIT) -----

Release ID.....: 1 All Liquid Releases
 Period Start Date.....: 01/01/2011 00:00
 Period End Date.....: 01/01/2012 00:00
 Period Duration (mins): 5.256E+05

=== PERMIT ORGAN DOSE BY AGE GROUP AND NUCLIDE (mrem) =====								
Agegroup	Bone	Liver	Thyroid	Kidney	Lung	GI-Lli	Skin	TB

INFANT								
H-3	0.00E+00	2.72E-02	2.72E-02	2.72E-02	2.72E-02	2.72E-02	0.00E+00	2.72E-02
CR-51	0.00E+00	0.00E+00	4.28E-10	9.34E-11	8.32E-10	1.91E-08	0.00E+00	6.55E-10
MN-54	0.00E+00	2.27E-07	0.00E+00	5.04E-08	0.00E+00	8.36E-08	0.00E+00	5.16E-08
FE-55	2.04E-06	1.32E-06	0.00E+00	0.00E+00	6.43E-07	1.67E-07	0.00E+00	3.52E-07
FE-59	5.05E-07	8.81E-07	0.00E+00	0.00E+00	2.61E-07	4.21E-07	0.00E+00	3.47E-07
CO-58	0.00E+00	4.36E-06	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	1.09E-05
CO-60	0.00E+00	2.33E-06	0.00E+00	0.00E+00	0.00E+00	5.55E-06	0.00E+00	5.51E-06
ZR-95	3.48E-10	8.49E-11	0.00E+00	9.15E-11	0.00E+00	4.23E-08	0.00E+00	6.02E-11
NB-95	2.59E-10	1.07E-10	0.00E+00	7.65E-11	0.00E+00	9.00E-08	0.00E+00	6.17E-11
I-132	9.95E-10	2.02E-09	9.47E-08	2.26E-09	0.00E+00	1.64E-09	0.00E+00	7.20E-10
CS-137	8.93E-08	1.04E-07	0.00E+00	2.80E-08	1.14E-08	3.27E-10	0.00E+00	7.40E-09

LIQUID RELEASE AND DOSE SUMMARY REPORT
 ----- (PERIOD BASIS - BY UNIT) -----

Release ID.....: 1 All Liquid Releases
 Period Start Date.....: 01/01/2011 00:00
 Period End Date.....: 01/01/2012 00:00
 Period Duration (mins): 5.256E+05
 Unit.....: 1
 Receptor.....: 0 Liquid Receptor

=== MAXIMUM DOSE FOR PERIOD =====

Limit Type	Organ Type	Age Group	Organ	Dose (mrem)	Limit Period	Limit (mrem)	Percent of Limit
Admin	Any Organ	ADULT	GILLI	1.08E-01	31-day	1.50E-01	7.17E+01
					Quarter	3.75E+00	2.87E+00
					Annual	7.50E+00	1.43E+00
Admin	Tot Body	ADULT	TBODY	7.45E-02	31-day	4.50E-02	1.66E+02
					Quarter	1.13E+00	6.62E+00
					Annual	2.25E+00	3.31E+00
T.Spec	Any Organ	ADULT	GILLI	1.08E-01	31-day	2.00E-01	5.38E+01
					Quarter	5.00E+00	2.15E+00
					Annual	1.00E+01	1.08E+00

Critical Pathway.....: 1 Fresh Water Fish - Sport (FFSP)
 Major Contributors.....: 0.0 % or greater to total

Nuclide	Percentage
H-3	6.81E+01
CR-51	3.69E-02
MN-54	3.79E-01
FE-55	9.48E-02
FE-59	3.31E-01
CO-58	5.46E+00
CO-60	2.59E+00
ZR-95	1.13E-03
NB-95	2.30E+01
I-132	5.56E-06
CS-137	4.27E-03

Limit Type	Organ Type	Age Group	Organ	Dose (mrem)	Limit Period	Limit (mrem)	Percent of Limit
T.Spec	Tot Body	ADULT	TBODY	7.45E-02	31-day	6.00E-02	1.24E+02
					Quarter	1.50E+00	4.97E+00
					Annual	3.00E+00	2.48E+00

Critical Pathway.....: 1 Fresh Water Fish - Sport (FFSP)
 Major Contributors.....: 0.0 % or greater to total

Nuclide	Percentage
H-3	9.83E+01
CR-51	2.12E-04

LIQUID RELEASE AND DOSE SUMMARY REPORT
----- (PERIOD BASIS - BY UNIT) -----

Release ID.....: 1 All Liquid Releases
Period Start Date.....: 01/01/2011 00:00
Period End Date.....: 01/01/2012 00:00
Period Duration (mins): 5.256E+05

Major Contributors.....: 0.0 % or greater to total

Nuclide	Percentage
MN-54	3.41E-02
FE-55	5.57E-02
FE-59	5.49E-02
CO-58	8.71E-01
CO-60	4.39E-01
ZR-95	3.48E-07
NB-95	2.94E-03
I-132	1.49E-05
CS-137	2.09E-01

LIQUID RELEASE AND DOSE SUMMARY REPORT
 ----- (PERIOD BASIS - BY UNIT) -----

Release ID.....: 1 All Liquid Releases
 Period Start Date.....: 01/01/2011 00:00
 Period End Date.....: 01/01/2012 00:00
 Period Duration (mins): 5.256E+05
 Unit.....: 2

=== MULTIPLE RELEASE POINT MESSAGE =====
 Undiluted and Diluted Flowrate(s) and Concentration(s) cannot be combined.

=== RELEASE DATA =====
 Total Release Duration (minutes)..... 5.407E+05
 Total Undiluted Volume Released (gallons)..... NA
 Average Undiluted Flowrate (gpm)..... NA

 Total Dilution Volume (gallons)..... NA
 Average Dilution Flowrate (gpm)..... NA

=== NUCLIDE DATA =====

Nuclide	uCi
-----	-----
CO-57	1.46E+01
SN-113	2.21E+01
SB-125	1.92E+02
TE-123M	1.44E+01
SB-126	1.42E+00
CR-51	3.48E+02
MN-54	8.55E+01
FE-59	1.23E+02
CO-58	9.07E+03
CO-60	1.62E+03
ZR-95	1.27E+01
NB-95	4.61E+01
I-132	4.49E+00
CS-137	1.28E+00
-----	-----
Gamma	1.16E+04
XE-133	6.15E+02
-----	-----
D&EG	6.15E+02
H-3	1.29E+09
FE-55	1.10E+03
-----	-----
Beta	1.29E+09
-----	-----
Total	1.29E+09

LIQUID RELEASE AND DOSE SUMMARY REPORT
 ----- (PERIOD BASIS - BY UNIT) -----

Release ID.....: 1 All Liquid Releases
 Period Start Date.....: 01/01/2011 00:00
 Period End Date.....: 01/01/2012 00:00
 Period Duration (mins): 5.256E+05
 Unit.....: 2
 Receptor.....: 0 Liquid Receptor

=== PERMIT ORGAN DOSE BY AGE GROUP AND PATHWAY (mrem) ===

Age/Path	Bone	Liver	Thyroid	Kidney	Lung	GI-Lli	Skin	TB
APWtr	1.08E-06	2.05E-02	2.04E-02	2.04E-02	2.04E-02	2.05E-02	0.00E+00	2.05E-02
AFWFSp	4.82E-04	5.39E-02	5.28E-02	5.29E-02	5.29E-02	8.70E-02	0.00E+00	5.40E-02
TPWtr	1.03E-06	1.44E-02	1.44E-02	1.44E-02	1.44E-02	1.44E-02	0.00E+00	1.44E-02
TFWFSp	5.08E-04	4.17E-02	4.05E-02	4.07E-02	4.07E-02	6.45E-02	0.00E+00	4.17E-02
CPWtr	3.11E-06	2.77E-02	2.77E-02	2.77E-02	2.77E-02	2.77E-02	0.00E+00	2.77E-02
CFWFSp	6.51E-04	3.45E-02	3.36E-02	3.37E-02	3.37E-02	4.21E-02	0.00E+00	3.48E-02
IPWtr	2.63E-06	2.72E-02	2.72E-02	2.72E-02	2.72E-02	2.72E-02	0.00E+00	2.72E-02

----- TOTALS -----

ADULT	4.84E-04	7.43E-02	7.32E-02	7.34E-02	7.34E-02	1.08E-01	0.00E+00	7.45E-02
TEEN	5.09E-04	5.61E-02	5.50E-02	5.51E-02	5.51E-02	7.90E-02	0.00E+00	5.61E-02
CHILD	6.54E-04	6.22E-02	6.12E-02	6.14E-02	6.14E-02	6.98E-02	0.00E+00	6.25E-02
INFANT	2.63E-06	2.72E-02	2.72E-02	2.72E-02	2.72E-02	2.72E-02	0.00E+00	2.72E-02

=== AGE GROUP / PATHWAY DESCRIPTIONS ===

Abbreviation	Age Group	Pathway
APWtr	ADULT	Potable Water (PWtr)
AFWFSp	ADULT	Fresh Water Fish - Sport (FFSP)
TPWtr	TEEN	Potable Water (PWtr)
TFWFSp	TEEN	Fresh Water Fish - Sport (FFSP)
CPWtr	CHILD	Potable Water (PWtr)
CFWFSp	CHILD	Fresh Water Fish - Sport (FFSP)
IPWtr	INFANT	Potable Water (PWtr)

LIQUID RELEASE AND DOSE SUMMARY REPORT
 ----- (PERIOD BASIS - BY UNIT) -----

Release ID.....: 1 All Liquid Releases
 Period Start Date.....: 01/01/2011 00:00
 Period End Date.....: 01/01/2012 00:00
 Period Duration (mins): 5.256E+05
 Unit.....: 2
 Receptor.....: 0 Liquid Receptor

=== PERMIT ORGAN DOSE BY AGE GROUP AND NUCLIDE (mrem) =====								
Agegroup	Bone	Liver	Thyroid	Kidney	Lung	GI-Lli	Skin	TB
ADULT								
H-3	0.00E+00	7.32E-02	7.32E-02	7.32E-02	7.32E-02	7.32E-02	0.00E+00	7.32E-02
CR-51	0.00E+00	0.00E+00	9.42E-08	3.47E-08	2.09E-07	3.96E-05	0.00E+00	1.58E-07
MN-54	0.00E+00	1.33E-04	0.00E+00	3.96E-05	0.00E+00	4.08E-04	0.00E+00	2.54E-05
FE-55	2.57E-04	1.78E-04	0.00E+00	0.00E+00	9.92E-05	1.02E-04	0.00E+00	4.15E-05
FE-59	4.54E-05	1.07E-04	0.00E+00	0.00E+00	2.98E-05	3.56E-04	0.00E+00	4.09E-05
CO-58	0.00E+00	2.89E-04	0.00E+00	0.00E+00	0.00E+00	5.86E-03	0.00E+00	6.49E-04
CO-60	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	2.78E-03	0.00E+00	3.27E-04
ZR-95	1.19E-09	3.83E-10	0.00E+00	6.01E-10	0.00E+00	1.21E-06	0.00E+00	2.59E-10
NB-95	7.32E-06	4.07E-06	0.00E+00	4.02E-06	0.00E+00	2.47E-02	0.00E+00	2.19E-06
I-132	1.19E-08	3.18E-08	1.11E-06	5.07E-08	0.00E+00	5.97E-09	0.00E+00	1.11E-08
CS-137	1.73E-04	2.37E-04	0.00E+00	8.06E-05	2.68E-05	4.59E-06	0.00E+00	1.55E-04
TEEN								
H-3	0.00E+00	5.50E-02	5.50E-02	5.50E-02	5.50E-02	5.50E-02	0.00E+00	5.50E-02
CR-51	0.00E+00	0.00E+00	9.03E-08	3.56E-08	2.32E-07	2.73E-05	0.00E+00	1.63E-07
MN-54	0.00E+00	1.31E-04	0.00E+00	3.90E-05	0.00E+00	2.68E-04	0.00E+00	2.60E-05
FE-55	2.69E-04	1.91E-04	0.00E+00	0.00E+00	1.21E-04	8.27E-05	0.00E+00	4.45E-05
FE-59	4.68E-05	1.09E-04	0.00E+00	0.00E+00	3.44E-05	2.58E-04	0.00E+00	4.22E-05
CO-58	0.00E+00	2.88E-04	0.00E+00	0.00E+00	0.00E+00	3.96E-03	0.00E+00	6.63E-04
CO-60	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	1.93E-03	0.00E+00	3.34E-04
ZR-95	1.22E-09	3.86E-10	0.00E+00	5.67E-10	0.00E+00	8.91E-07	0.00E+00	2.65E-10
NB-95	7.37E-06	4.09E-06	0.00E+00	3.96E-06	0.00E+00	1.75E-02	0.00E+00	2.25E-06
I-132	1.24E-08	3.25E-08	1.10E-06	5.12E-08	0.00E+00	1.42E-08	0.00E+00	1.17E-08
CS-137	1.86E-04	2.47E-04	0.00E+00	8.41E-05	3.27E-05	3.52E-06	0.00E+00	8.61E-05
CHILD								
H-3	0.00E+00	6.12E-02	6.12E-02	6.12E-02	6.12E-02	6.12E-02	0.00E+00	6.12E-02
CR-51	0.00E+00	0.00E+00	9.64E-08	2.63E-08	1.76E-07	9.21E-06	0.00E+00	1.74E-07
MN-54	0.00E+00	1.02E-04	0.00E+00	2.87E-05	0.00E+00	8.60E-05	0.00E+00	2.73E-05
FE-55	3.55E-04	1.88E-04	0.00E+00	0.00E+00	1.06E-04	3.49E-05	0.00E+00	5.83E-05
FE-59	5.69E-05	9.21E-05	0.00E+00	0.00E+00	2.67E-05	9.59E-05	0.00E+00	4.59E-05
CO-58	0.00E+00	2.32E-04	0.00E+00	0.00E+00	0.00E+00	1.35E-03	0.00E+00	7.09E-04
CO-60	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	6.71E-04	0.00E+00	3.58E-04
ZR-95	1.66E-09	3.64E-10	0.00E+00	5.21E-10	0.00E+00	3.80E-07	0.00E+00	3.24E-10
NB-95	8.70E-06	3.39E-06	0.00E+00	3.18E-06	0.00E+00	6.27E-03	0.00E+00	2.42E-06
I-132	1.58E-08	2.90E-08	1.35E-06	4.44E-08	0.00E+00	3.41E-08	0.00E+00	1.33E-08
CS-137	2.34E-04	2.24E-04	0.00E+00	7.30E-05	2.63E-05	1.40E-06	0.00E+00	3.30E-05

LIQUID RELEASE AND DOSE SUMMARY REPORT
 ----- (PERIOD BASIS - BY UNIT) -----

Release ID.....: 1 All Liquid Releases
 Period Start Date.....: 01/01/2011 00:00
 Period End Date.....: 01/01/2012 00:00
 Period Duration (mins): 5.256E+05

=== PERMIT ORGAN DOSE BY AGE GROUP AND NUCLIDE (mrem) ===								
Agegroup	Bone	Liver	Thyroid	Kidney	Lung	GI-Lli	Skin	TB
INFANT								
H-3	0.00E+00	2.72E-02	2.72E-02	2.72E-02	2.72E-02	2.72E-02	0.00E+00	2.72E-02
CR-51	0.00E+00	0.00E+00	4.28E-10	9.34E-11	8.32E-10	1.91E-08	0.00E+00	6.55E-10
MN-54	0.00E+00	2.27E-07	0.00E+00	5.04E-08	0.00E+00	8.36E-08	0.00E+00	5.16E-08
FE-55	2.04E-06	1.32E-06	0.00E+00	0.00E+00	6.43E-07	1.67E-07	0.00E+00	3.52E-07
FE-59	5.05E-07	8.81E-07	0.00E+00	0.00E+00	2.61E-07	4.21E-07	0.00E+00	3.47E-07
CO-58	0.00E+00	4.36E-06	0.00E+00	0.00E+00	0.00E+00	1.09E-05	0.00E+00	1.09E-05
CO-60	0.00E+00	2.33E-06	0.00E+00	0.00E+00	0.00E+00	5.55E-06	0.00E+00	5.51E-06
ZR-95	3.48E-10	8.49E-11	0.00E+00	9.15E-11	0.00E+00	4.23E-08	0.00E+00	6.02E-11
NB-95	2.59E-10	1.07E-10	0.00E+00	7.65E-11	0.00E+00	9.00E-08	0.00E+00	6.17E-11
I-132	9.95E-10	2.02E-09	9.47E-08	2.26E-09	0.00E+00	1.64E-09	0.00E+00	7.20E-10
CS-137	8.93E-08	1.04E-07	0.00E+00	2.80E-08	1.14E-08	3.27E-10	0.00E+00	7.40E-09

LIQUID RELEASE AND DOSE SUMMARY REPORT
 ----- (PERIOD BASIS - BY UNIT) -----

Release ID.....: 1 All Liquid Releases
 Period Start Date.....: 01/01/2011 00:00
 Period End Date.....: 01/01/2012 00:00
 Period Duration (mins): 5.256E+05
 Unit.....: 2
 Receptor.....: 0 Liquid Receptor

=== MAXIMUM DOSE FOR PERIOD =====

Limit Type	Organ Type	Age Group	Organ	Dose (mrem)	Limit Period	Limit (mrem)	Percent of Limit
Admin	Any Organ	ADULT	GILLI	1.08E-01	31-day	1.50E-01	7.17E+01
					Quarter	3.75E+00	2.87E+00
					Annual	7.50E+00	1.43E+00
Admin	Tot Body	ADULT	TBODY	7.45E-02	31-day	4.50E-02	1.66E+02
					Quarter	1.13E+00	6.62E+00
					Annual	2.25E+00	3.31E+00
T.Spec	Any Organ	ADULT	GILLI	1.08E-01	31-day	2.00E-01	5.38E+01
					Quarter	5.00E+00	2.15E+00
					Annual	1.00E+01	1.08E+00

Critical Pathway.....: 1 Fresh Water Fish - Sport (FFSP)
 Major Contributors.....: 0.0 % or greater to total

Nuclide	Percentage
H-3	6.81E+01
CR-51	3.69E-02
MN-54	3.79E-01
FE-55	9.48E-02
FE-59	3.31E-01
CO-58	5.46E+00
CO-60	2.59E+00
ZR-95	1.13E-03
NB-95	2.30E+01
I-132	5.56E-06
CS-137	4.27E-03

Limit Type	Organ Type	Age Group	Organ	Dose (mrem)	Limit Period	Limit (mrem)	Percent of Limit
T.Spec	Tot Body	ADULT	TBODY	7.45E-02	31-day	6.00E-02	1.24E+02
					Quarter	1.50E+00	4.97E+00
					Annual	3.00E+00	2.48E+00

Critical Pathway.....: 1 Fresh Water Fish - Sport (FFSP)
 Major Contributors.....: 0.0 % or greater to total

Nuclide	Percentage
H-3	9.83E+01
CR-51	2.12E-04

LIQUID RELEASE AND DOSE SUMMARY REPORT
----- (PERIOD BASIS - BY UNIT) -----

Release ID.....: 1 All Liquid Releases
Period Start Date.....: 01/01/2011 00:00
Period End Date.....: 01/01/2012 00:00
Period Duration (mins): 5.256E+05

Major Contributors.....: 0.0 % or greater to total

Nuclide	Percentage
MN-54	3.41E-02
FE-55	5.57E-02
FE-59	5.49E-02
CO-58	8.71E-01
CO-60	4.39E-01
ZR-95	3.48E-07
NB-95	2.94E-03
I-132	1.49E-05
CS-137	2.09E-01