EXERCISE MANUAL

FOR THE
JUNE 24, 2003
FORT CALHOUN STATION

EMERGENCY
PREPAREDNESS EXERCISE

VOLUME 4
MISCELLANEOUS
SCENARIO DATA

CAUTION: This manual contains scenario information that is intended to be used by Evaluators and Controllers. Data in this manual should not be provided to participants without the approval of the Exercise Senior Controller.

CAUTION: This manual contains confidential exercise Information that cannot be shared with exercise Participants prior to the 2003 Fort Calhoun Station Exercise.

This manual contains scenario information that is intended to be used by Evaluators and Controllers. Data in this manual should not be provided to participants without the approval of the Exercise Senior Controller. Most of the data in this manual will be made available to the participants via the Simulator ERFCS System or produce by the participants themselves. Data in this manual is typical of what will be made available from the Simulator or produced by the participants.

Plume 1 at 0710

1. Location: ( ) CONTAINMENT (X) STACK ( ) CDSR/M STM ( ) RW BLD
2. ESTIMATED RELEASE DURATION: 4.00 HOURS

3. QUANTITY AND RATE:
   5.25E+003 CURIES NOBLE GAS AT 3.65E-001 CURIES/SECOND
   1.05E+002 CURIES IODINE AT 7.29E-003 CURIES/SECOND
   4.84E+000 CURIES PARTICULATE AT 3.36E-004 CURIES/SECOND

4. METEOROLOGICAL:
   ATMOSPHERIC MIXING CONDITION: UNLIMITED MIXING
   WIND SPEED: 15 (MPH) WIND DIRECTION: FROM 270 (DEG)
   DELTA T: -1.4 (DEG) AMBIENT TEMP: 25 (DEG C)
   STABILITY CATEGORY: D MIXING HEIGHT 529 (METERS)

5. Affected Sectors: D, E, F

6.

	A. PROJECTED DOSE RATE (REM/HR)		B. PROJECTED INTEGRATED DOSE (REM)	
	TEDE	CDE	TEDE	CDE
SITE BOUNDARY:	2.56E-003	1.55E-002	1.03E-002	6.22E-002
AT 2 MILES:	6.40E-004	4.08E-003	2.56E-003	1.63E-002
AT 5 MILES:	1.38E-004	9.45E-004	5.53E-004	3.78E-003
AT 10 MILES:	0.00E+000	3.08E-004	0.00E+000	1.23E-003

Notes: 1. Calculated using the Straightline Gaussian Model.
2. Doses/Rates < 1E-4 are displayed as zero.

Reviewed by: _____

CONTAINMENT LEAK PARAMETERS: press(psig): 0.3
orfice dia(in): 0

AUX BLDG STK	gcpm	flow-cfm
RM-062	6.01E+005	2.43E+004

Comments:

Plume 2 at 0725

1. Location: ( ) CONTAINMENT (X) STACK ( ) CDSR/M STM ( ) RW BLD
2. ESTIMATED RELEASE DURATION: 4.00 HOURS

3. QUANTITY AND RATE:
   6.39E+002 CURIES NOBLE GAS AT 4.44E-002 CURIES/SECOND
   1.28E+001 CURIES IODINE AT 8.88E-004 CURIES/SECOND
   5.89E-001 CURIES PARTICULATE AT 4.09E-005 CURIES/SECOND

4. METEOROLOGICAL:
   ATMOSPHERIC MIXING CONDITION: UNLIMITED MIXING
   WIND SPEED: 15 (MPH) WIND DIRECTION: FROM 270 (DEG)
   DELTA T: -1.4 (DEG) AMBIENT TEMP: 25 (DEG C)
   STABILITY CATEGORY: D MIXING HEIGHT 529 (METERS)

5. Affected Sectors: D, E, F

6.

	A. PROJECTED DOSE RATE (REM/HR)		B. PROJECTED INTEGRATED DOSE (REM)	
	TEDE	CDE	TEDE	CDE
SITE BOUNDARY:	3.12E-004	1.89E-003	1.25E-003	7.57E-003
AT 2 MILES:	0.00E+000	4.96E-004	0.00E+000	1.98E-003
AT 5 MILES:	0.00E+000	1.15E-004	0.00E+000	4.60E-004
AT 10 MILES:	0.00E+000	0.00E+000	0.00E+000	0.00E+000

Notes: 1. Calculated using the Straightline Gaussian Model.
2. Doses/Rates < 1E-4 are displayed as zero.

Reviewed by: _____

CONTAINMENT LEAK PARAMETERS: press(psig): 0.3
orfice dia(in): 0

AUX BLDG STK	gcpm	flow-cfm
RM-062	7.32E+004	2.43E+004

Comments:

Plume 3 at 0740

1. Location: ( ) CONTAINMENT (X) STACK ( ) CDSR/M STM ( ) RW BLD
2. ESTIMATED RELEASE DURATION: 4.00 HOURS

3. QUANTITY AND RATE:
   1.36E+002 CURIES NOBLE GAS AT 9.44E-003 CURIES/SECOND
   2.72E+000 CURIES IODINE AT 1.89E-004 CURIES/SECOND
   1.25E-001 CURIES PARTICULATE AT 8.70E-006 CURIES/SECOND

4. METEOROLOGICAL:
   ATMOSPHERIC MIXING CONDITION: UNLIMITED MIXING
   WIND SPEED: 15 (MPH) WIND DIRECTION: FROM 270 (DEG)
   DELTA T: -1.4 (DEG) AMBIENT TEMP: 25 (DEG C)
   STABILITY CATEGORY: D MIXING HEIGHT 529 (METERS)

5. Affected Sectors: D, E, F

6.

	A. PROJECTED DOSE RATE (REM/HR)		B. PROJECTED INTEGRATED DOSE (REM)	
	TEDE	CDE	TEDE	CDE
SITE BOUNDARY:	0.00E+000	4.02E-004	0.00E+000	1.61E-003
AT 2 MILES:	0.00E+000	1.05E-004	0.00E+000	4.22E-004
AT 5 MILES:	0.00E+000	0.00E+000	0.00E+000	0.00E+000
AT 10 MILES:	0.00E+000	0.00E+000	0.00E+000	0.00E+000

Notes: 1. Calculated using the Straightline Gaussian Model.
2. Doses/Rates < 1E-4 are displayed as zero.

Reviewed by: _____

CONTAINMENT LEAK PARAMETERS: press(psig): 0.3
orfice dia(in): 0

AUX BLDG STK	gcpm	flow-cfm
RM-062	1.56E+004	2.43E+004

Comments:

Plume 4 at 0755

1. Location: ( ) CONTAINMENT (X) STACK ( ) CDSR/M STM ( ) RW BLD
2. ESTIMATED RELEASE DURATION: 4.00 HOURS

3. QUANTITY AND RATE:
   4.94E+001 CURIES NOBLE GAS AT 3.43E-003 CURIES/SECOND
   9.87E-001 CURIES IODINE AT 6.86E-005 CURIES/SECOND
   4.55E-002 CURIES PARTICULATE AT 3.16E-006 CURIES/SECOND

4. METEOROLOGICAL:
   ATMOSPHERIC MIXING CONDITION: UNLIMITED MIXING
   WIND SPEED: 15 (MPH) WIND DIRECTION: FROM 270 (DEG)
   DELTA T: -1.4 (DEG) AMBIENT TEMP: 25 (DEG C)
   STABILITY CATEGORY: D MIXING HEIGHT 529 (METERS)

5. Affected Sectors: D, E, F

6.

	A. PROJECTED DOSE RATE (REM/HR)		B. PROJECTED INTEGRATED DOSE (REM)	
	TEDE	CDE	TEDE	CDE
SITE BOUNDARY:	0.00E+000	1.46E-004	0.00E+000	5.85E-004
AT 2 MILES:	0.00E+000	0.00E+000	0.00E+000	0.00E+000
AT 5 MILES:	0.00E+000	0.00E+000	0.00E+000	0.00E+000
AT 10 MILES:	0.00E+000	0.00E+000	0.00E+000	0.00E+000

Notes: 1. Calculated using the Straightline Gaussian Model.
2. Doses/Rates < 1E-4 are displayed as zero.

Reviewed by: _____

CONTAINMENT LEAK PARAMETERS: press(psig): 0.3
orfice dia(in): 0

AUX BLDG STK	gcpm	flow-cfm
RM-062	5.70E+003	2.43E+004

Comments:

Plume 5 at 0810

1. Location: ( ) CONTAINMENT (X) STACK ( ) CDSR/M STM ( ) RW BLD
2. ESTIMATED RELEASE DURATION: 4.00 HOURS

3. QUANTITY AND RATE:
   2.37E+001 CURIES NOBLE GAS AT 1.64E-003 CURIES/SECOND
   4.74E-001 CURIES IODINE AT 3.29E-005 CURIES/SECOND
   2.18E-002 CURIES PARTICULATE AT 1.52E-006 CURIES/SECOND

4. METEOROLOGICAL:
   ATMOSPHERIC MIXING CONDITION: UNLIMITED MIXING
   WIND SPEED: 15 (MPH) WIND DIRECTION: FROM 270 (DEG)
   DELTA T: -1.4 (DEG) AMBIENT TEMP: 25 (DEG C)
   STABILITY CATEGORY: D MIXING HEIGHT 529 (METERS)

5. Affected Sectors: D, E, F

6.

	A. PROJECTED DOSE RATE (REM/HR)		B. PROJECTED INTEGRATED DOSE (REM)	
	TEDE	CDE	TEDE	CDE
SITE BOUNDARY:	0.00E+000	0.00E+000	0.00E+000	0.00E+000
AT 2 MILES:	0.00E+000	0.00E+000	0.00E+000	0.00E+000
AT 5 MILES:	0.00E+000	0.00E+000	0.00E+000	0.00E+000
AT 10 MILES:	0.00E+000	0.00E+000	0.00E+000	0.00E+000

Notes: 1. Calculated using the Straightline Gaussian Model.
2. Doses/Rates < 1E-4 are displayed as zero.

Reviewed by: _____

CONTAINMENT LEAK PARAMETERS: press(psig): 0.3
orfice dia(in): 0

AUX BLDG STK	gcpm	flow-cfm
RM-062	2.76E+003	2.43E+004

Comments:

Plume 6 at 0825

1. Location: ( ) CONTAINMENT (X) STACK ( ) CDSR/M STM ( ) RW BLD
2. ESTIMATED RELEASE DURATION: 4.00 HOURS

3. QUANTITY AND RATE:
   1.27E+001 CURIES NOBLE GAS AT 8.80E-004 CURIES/SECOND
   2.53E-001 CURIES IODINE AT 1.76E-005 CURIES/SECOND
   1.17E-002 CURIES PARTICULATE AT 8.11E-007 CURIES/SECOND

4. METEOROLOGICAL:
   ATMOSPHERIC MIXING CONDITION: UNLIMITED MIXING
   WIND SPEED: 15 (MPH) WIND DIRECTION: FROM 270 (DEG)
   DELTA T: -1.4 (DEG) AMBIENT TEMP: 25 (DEG C)
   STABILITY CATEGORY: D MIXING HEIGHT 529 (METERS)

5. Affected Sectors: D, E, F

6.

	A. PROJECTED DOSE RATE (REM/HR)		B. PROJECTED INTEGRATED DOSE (REM)	
	TEDE	CDE	TEDE	CDE
SITE BOUNDARY:	0.00E+000	0.00E+000	0.00E+000	0.00E+000
AT 2 MILES:	0.00E+000	0.00E+000	0.00E+000	0.00E+000
AT 5 MILES:	0.00E+000	0.00E+000	0.00E+000	0.00E+000
AT 10 MILES:	0.00E+000	0.00E+000	0.00E+000	0.00E+000

Notes: 1. Calculated using the Straightline Gaussian Model.
2. Doses/Rates < 1E-4 are displayed as zero.

Reviewed by: _____

CONTAINMENT LEAK PARAMETERS: press(psig): 0.3
orfice dia(in): 0

AUX BLDG STK	gcpm	flow-cfm
RM-062	1.50E+003	2.43E+004

Comments:

Plume 7 at 0840

1. Location: (X) CONTAINMENT (X) STACK ( ) CDSR/M STM ( ) RW BLD
2. ESTIMATED RELEASE DURATION: 4.00 HOURS

3. QUANTITY AND RATE:
   3.09E+002 CURIES NOBLE GAS AT 2.15E-002 CURIES/SECOND
   6.18E+000 CURIES IODINE AT 4.29E-004 CURIES/SECOND
   6.49E-003 CURIES PARTICULATE AT 4.50E-007 CURIES/SECOND

4. METEOROLOGICAL:
   ATMOSPHERIC MIXING CONDITION: UNLIMITED MIXING
   WIND SPEED: 15 (MPH) WIND DIRECTION: FROM 270 (DEG)
   DELTA T: -1.4 (DEG) AMBIENT TEMP: 25 (DEG C)
   STABILITY CATEGORY: D MIXING HEIGHT 529 (METERS)

5. Affected Sectors: D, E, F

6.

	A. PROJECTED DOSE RATE (REM/HR)		B. PROJECTED INTEGRATED DOSE (REM)	
	TEDE	CDE	TEDE	CDE
SITE BOUNDARY:	1.43E-004	9.04E-004	5.72E-004	3.62E-003
AT 2 MILES:	0.00E+000	2.37E-004	0.00E+000	9.48E-004
AT 5 MILES:	0.00E+000	0.00E+000	0.00E+000	0.00E+000
AT 10 MILES:	0.00E+000	0.00E+000	0.00E+000	0.00E+000

Notes: 1. Calculated using the Straightline Gaussian Model.
2. Doses/Rates < 1E-4 are displayed as zero.

Reviewed by: _____

AUX BLDG STK	gcpm	flow-cfm
RM-062	8.55E+002	2.43E+004

CONTAMN LEAK	R/hr	flow-cfm
Cont. Area	1.18E+003	1.50E+000

Comments:

Plume 8 at 0855

1. Location: (X) CONTAINMENT (X) STACK ( ) CDSR/M STM ( ) RW BLD
2. ESTIMATED RELEASE DURATION: 4.00 HOURS

3. QUANTITY AND RATE:
   1.11E+003 CURIES NOBLE GAS AT 7.72E-002 CURIES/SECOND
   2.22E+001 CURIES IODINE AT 1.54E-003 CURIES/SECOND
   3.67E-003 CURIES PARTICULATE AT 2.55E-007 CURIES/SECOND

4. METEOROLOGICAL:
   ATMOSPHERIC MIXING CONDITION: UNLIMITED MIXING
   WIND SPEED: 15 (MPH) WIND DIRECTION: FROM 270 (DEG)
   DELTA T: -1.4 (DEG) AMBIENT TEMP: 25 (DEG C)
   STABILITY CATEGORY: D MIXING HEIGHT 529 (METERS)

5. Affected Sectors: D, E, F

6.

	A. PROJECTED DOSE RATE (REM/HR)		B. PROJECTED INTEGRATED DOSE (REM)	
	TEDE	CDE	TEDE	CDE
SITE BOUNDARY:	5.14E-004	3.25E-003	2.06E-003	1.30E-002
AT 2 MILES:	1.28E-004	8.53E-004	5.12E-004	3.41E-003
AT 5 MILES:	0.00E+000	1.98E-004	0.00E+000	7.91E-004
AT 10 MILES:	0.00E+000	0.00E+000	0.00E+000	0.00E+000

Notes: 1. Calculated using the Straightline Gaussian Model.
2. Doses/Rates < 1E-4 are displayed as zero.

Reviewed by: _____

AUX BLDG STK	gcpm	flow-cfm
RM-062	5.05E+002	2.43E+004

CONTAMN LEAK	R/hr	flow-cfm
Cont. Area	4.33E+003	1.50E+000

Comments:

Plume 9 at 0910

1. Location: (X) CONTAINMENT ( ) STACK ( ) CDSR/M STM ( ) RW BLD
2. ESTIMATED RELEASE DURATION: 4.00 HOURS

3. QUANTITY AND RATE:
   6.65E+002 CURIES NOBLE GAS AT 4.62E-002 CURIES/SECOND
   1.33E+001 CURIES IODINE AT 9.24E-004 CURIES/SECOND
   0.00E+000 CURIES PARTICULATE AT 0.00E+000 CURIES/SECOND

4. METEOROLOGICAL:
   ATMOSPHERIC MIXING CONDITION: UNLIMITED MIXING
   WIND SPEED: 15 (MPH) WIND DIRECTION: FROM 270 (DEG)
   DELTA T: -1.4 (DEG) AMBIENT TEMP: 25 (DEG C)
   STABILITY CATEGORY: D MIXING HEIGHT 529 (METERS)

5. Affected Sectors: D, E, F

6.

	A. PROJECTED DOSE RATE (REM/HR)		B. PROJECTED INTEGRATED DOSE (REM)	
	TEDE	CDE	TEDE	CDE
SITE BOUNDARY:	3.08E-004	1.95E-003	1.23E-003	7.79E-003
AT 2 MILES:	0.00E+000	5.10E-004	0.00E+000	2.04E-003
AT 5 MILES:	0.00E+000	1.18E-004	0.00E+000	4.73E-004
AT 10 MILES:	0.00E+000	0.00E+000	0.00E+000	0.00E+000

Notes: 1. Calculated using the Straightline Gaussian Model.
2. Doses/Rates < 1E-4 are displayed as zero.

Reviewed by: _____

CONTAMN LEAK	R/hr	flow-cfm
Cont. Area	2.60E+003	1.50E+000

Comments:

Plume 10 at 0925

1. Location: (X) CONTAINMENT ( ) STACK ( ) CDSR/M STM ( ) RW BLD
2. ESTIMATED RELEASE DURATION: 4.00 HOURS

3. QUANTITY AND RATE:
   4.40E+002 CURIES NOBLE GAS AT 3.06E-002 CURIES/SECOND
   8.81E+000 CURIES IODINE AT 6.11E-004 CURIES/SECOND
   0.00E+000 CURIES PARTICULATE AT 0.00E+000 CURIES/SECOND

4. METEOROLOGICAL:
   ATMOSPHERIC MIXING CONDITION: UNLIMITED MIXING
   WIND SPEED: 15 (MPH) WIND DIRECTION: FROM 270 (DEG)
   DELTA T: -1.4 (DEG) AMBIENT TEMP: 25 (DEG C)
   STABILITY CATEGORY: D MIXING HEIGHT 529 (METERS)

5. Affected Sectors: D, E, F

6.

	A. PROJECTED DOSE RATE (REM/HR)		B. PROJECTED INTEGRATED DOSE (REM)	
	TEDE	CDE	TEDE	CDE
SITE BOUNDARY:	2.03E-004	1.29E-003	8.14E-004	5.15E-003
AT 2 MILES:	0.00E+000	3.38E-004	0.00E+000	1.35E-003
AT 5 MILES:	0.00E+000	0.00E+000	0.00E+000	0.00E+000
AT 10 MILES:	0.00E+000	0.00E+000	0.00E+000	0.00E+000

Notes: 1. Calculated using the Straightline Gaussian Model.
2. Doses/Rates < 1E-4 are displayed as zero.

Reviewed by: _____

CONTAMN LEAK	R/hr	flow-cfm
Cont. Area	1.72E+003	1.50E+000

Comments:

Plume 11 at 0940

1. Location: (X) CONTAINMENT ( ) STACK ( ) CDSR/M STM ( ) RW BLD
2. ESTIMATED RELEASE DURATION: 4.00 HOURS

3. QUANTITY AND RATE:
   3.07E+002 CURIES NOBLE GAS AT 2.13E-002 CURIES/SECOND
   6.14E+000 CURIES IODINE AT 4.27E-004 CURIES/SECOND
   0.00E+000 CURIES PARTICULATE AT 0.00E+000 CURIES/SECOND

4. METEOROLOGICAL:
   ATMOSPHERIC MIXING CONDITION: UNLIMITED MIXING
   WIND SPEED: 15 (MPH) WIND DIRECTION: FROM 270 (DEG)
   DELTA T: -1.4 (DEG) AMBIENT TEMP: 25 (DEG C)
   STABILITY CATEGORY: D MIXING HEIGHT 529 (METERS)

5. Affected Sectors: D, E, F

6.

	A. PROJECTED DOSE RATE (REM/HR)		B. PROJECTED INTEGRATED DOSE (REM)	
	TEDE	CDE	TEDE	CDE
SITE BOUNDARY:	1.42E-004	8.99E-004	5.68E-004	3.59E-003
AT 2 MILES:	0.00E+000	2.36E-004	0.00E+000	9.42E-004
AT 5 MILES:	0.00E+000	0.00E+000	0.00E+000	0.00E+000
AT 10 MILES:	0.00E+000	0.00E+000	0.00E+000	0.00E+000

Notes: 1. Calculated using the Straightline Gaussian Model.
2. Doses/Rates < 1E-4 are displayed as zero.

Reviewed by: _____

CONTAMN LEAK	R/hr	flow-cfm
Cont. Area	1.20E+003	1.50E+000

Comments:

Plume 12 at 0955

1. Location: (X) CONTAINMENT ( ) STACK ( ) CDSR/M STM ( ) RW BLD
2. ESTIMATED RELEASE DURATION: 4.00 HOURS

3. QUANTITY AND RATE:
   1.98E+002 CURIES NOBLE GAS AT 1.38E-002 CURIES/SECOND
   3.97E+000 CURIES IODINE AT 2.76E-004 CURIES/SECOND
   0.00E+000 CURIES PARTICULATE AT 0.00E+000 CURIES/SECOND

4. METEOROLOGICAL:
   ATMOSPHERIC MIXING CONDITION: UNLIMITED MIXING
   WIND SPEED: 15 (MPH) WIND DIRECTION: FROM 270 (DEG)
   DELTA T: -1.4 (DEG) AMBIENT TEMP: 25 (DEG C)
   STABILITY CATEGORY: D MIXING HEIGHT 529 (METERS)

5. Affected Sectors: D, E, F

6.

	A. PROJECTED DOSE RATE (REM/HR)		B. PROJECTED INTEGRATED DOSE (REM)	
	TEDE	CDE	TEDE	CDE
SITE BOUNDARY:	0.00E+000	5.80E-004	0.00E+000	2.32E-003
AT 2 MILES:	0.00E+000	1.52E-004	0.00E+000	6.09E-004
AT 5 MILES:	0.00E+000	0.00E+000	0.00E+000	0.00E+000
AT 10 MILES:	0.00E+000	0.00E+000	0.00E+000	0.00E+000

Notes: 1. Calculated using the Straightline Gaussian Model.
2. Doses/Rates < 1E-4 are displayed as zero.

Reviewed by: _____

CONTAMN LEAK	R/hr	flow-cfm
Cont. Area	7.75E+002	1.50E+000

Comments:

Plume 13 at 1010

1. Location: (X) CONTAINMENT ( ) STACK ( ) CDSR/M STM ( ) RW BLD
2. ESTIMATED RELEASE DURATION: 4.00 HOURS

3. QUANTITY AND RATE:
   1.32E+002 CURIES NOBLE GAS AT 9.19E-003 CURIES/SECOND
   2.65E+000 CURIES IODINE AT 1.84E-004 CURIES/SECOND
   0.00E+000 CURIES PARTICULATE AT 0.00E+000 CURIES/SECOND

4. METEOROLOGICAL:
   ATMOSPHERIC MIXING CONDITION: UNLIMITED MIXING
   WIND SPEED: 15 (MPH) WIND DIRECTION: FROM 270 (DEG)
   DELTA T: -1.4 (DEG) AMBIENT TEMP: 25 (DEG C)
   STABILITY CATEGORY: D MIXING HEIGHT 529 (METERS)

5. Affected Sectors: D, E, F

6.

	A. PROJECTED DOSE RATE (REM/HR)		B. PROJECTED INTEGRATED DOSE (REM)	
	TEDE	CDE	TEDE	CDE
SITE BOUNDARY:	0.00E+000	3.87E-004	0.00E+000	1.55E-003
AT 2 MILES:	0.00E+000	1.01E-004	0.00E+000	4.06E-004
AT 5 MILES:	0.00E+000	0.00E+000	0.00E+000	0.00E+000
AT 10 MILES:	0.00E+000	0.00E+000	0.00E+000	0.00E+000

Notes: 1. Calculated using the Straightline Gaussian Model.
2. Doses/Rates < 1E-4 are displayed as zero.

Reviewed by: _____

CONTAMN LEAK	R/hr	flow-cfm
Cont. Area	5.17E+002	1.50E+000

Comments:

Plume 14 at 1025

1. Location: (X) CONTAINMENT ( ) STACK ( ) CDSR/M STM ( ) RW BLD
2. ESTIMATED RELEASE DURATION: 4.00 HOURS

3. QUANTITY AND RATE:
   1.71E+002 CURIES NOBLE GAS AT 1.19E-002 CURIES/SECOND
   3.42E+000 CURIES IODINE AT 2.38E-004 CURIES/SECOND
   0.00E+000 CURIES PARTICULATE AT 0.00E+000 CURIES/SECOND

4. METEOROLOGICAL:
   ATMOSPHERIC MIXING CONDITION: UNLIMITED MIXING
   WIND SPEED: 15 (MPH) WIND DIRECTION: FROM 270 (DEG)
   DELTA T: -1.4 (DEG) AMBIENT TEMP: 25 (DEG C)
   STABILITY CATEGORY: D MIXING HEIGHT 529 (METERS)

5. Affected Sectors: D, E, F

6.

	A. PROJECTED DOSE RATE (REM/HR)		B. PROJECTED INTEGRATED DOSE (REM)	
	TEDE	CDE	TEDE	CDE
SITE BOUNDARY:	0.00E+000	5.01E-004	0.00E+000	2.00E-003
AT 2 MILES:	0.00E+000	1.31E-004	0.00E+000	5.25E-004
AT 5 MILES:	0.00E+000	0.00E+000	0.00E+000	0.00E+000
AT 10 MILES:	0.00E+000	0.00E+000	0.00E+000	0.00E+000

Notes: 1. Calculated using the Straightline Gaussian Model.
2. Doses/Rates < 1E-4 are displayed as zero.

Reviewed by: _____

CONTAMN LEAK	R/hr	flow-cfm
Cont. Area	6.69E+002	1.50E+000

Comments:

Plume 15 at 1040

1. Location: (X) CONTAINMENT ( ) STACK ( ) CDSR/M STM ( ) RW BLD
2. ESTIMATED RELEASE DURATION: 4.00 HOURS

3. QUANTITY AND RATE:
   4.04E+004 CURIES NOBLE GAS AT 2.81E+000 CURIES/SECOND
   8.09E+002 CURIES IODINE AT 5.62E-002 CURIES/SECOND
   0.00E+000 CURIES PARTICULATE AT 0.00E+000 CURIES/SECOND

4. METEOROLOGICAL:
   ATMOSPHERIC MIXING CONDITION: UNLIMITED MIXING
   WIND SPEED: 15 (MPH) WIND DIRECTION: FROM 270 (DEG)
   DELTA T: -1.4 (DEG) AMBIENT TEMP: 25 (DEG C)
   STABILITY CATEGORY: D MIXING HEIGHT 529 (METERS)

5. Affected Sectors: D, E, F

6.

	A. PROJECTED DOSE RATE (REM/HR)		B. PROJECTED INTEGRATED DOSE (REM)	
	TEDE	CDE	TEDE	CDE
SITE BOUNDARY:	1.87E-002	1.18E-001	7.48E-002	4.73E-001
AT 2 MILES:	4.65E-003	3.10E-002	1.86E-002	1.24E-001
AT 5 MILES:	1.00E-003	7.19E-003	4.00E-003	2.88E-002
AT 10 MILES:	2.96E-004	2.34E-003	1.18E-003	9.37E-003

Notes: 1. Calculated using the Straightline Gaussian Model.
2. Doses/Rates < 1E-4 are displayed as zero.

Reviewed by: _____

CONTAMN LEAK	R/hr	flow-cfm
Cont. Area	1.58E+005	1.50E+000

Comments:

Plume 16 at 1055

1. Location: (X) CONTAINMENT (X) STACK ( ) CDSR/M STM ( ) RW BLD
2. ESTIMATED RELEASE DURATION: 4.00 HOURS

3. QUANTITY AND RATE:
   6.78E+006 CURIES NOBLE GAS AT 4.71E+002 CURIES/SECOND
   1.36E+005 CURIES IODINE AT 9.41E+000 CURIES/SECOND
   6.15E+003 CURIES PARTICULATE AT 4.27E-001 CURIES/SECOND

4. METEOROLOGICAL:
   ATMOSPHERIC MIXING CONDITION: UNLIMITED MIXING
   WIND SPEED: 15 (MPH) WIND DIRECTION: FROM 270 (DEG)
   DELTA T: -1.6 (DEG) AMBIENT TEMP: 25 (DEG C)
   STABILITY CATEGORY: C MIXING HEIGHT 1020.5 (METERS)

5. Affected Sectors: D, E, F

6.

	A. PROJECTED DOSE RATE (REM/HR)		B. PROJECTED INTEGRATED DOSE (REM)	
	TEDE	CDE	TEDE	CDE
SITE BOUNDARY:	1.19E+000	7.21E+000	4.75E+000	2.88E+001
AT 2 MILES:	2.29E-001	1.46E+000	9.14E-001	5.83E+000
AT 5 MILES:	3.64E-002	2.49E-001	1.46E-001	9.96E-001
AT 10 MILES:	8.48E-003	6.35E-002	3.39E-002	2.54E-001

Notes: 1. Calculated using the Straightline Gaussian Model.
2. Doses/Rates < 1E-4 are displayed as zero.

Reviewed by: _____

AUX BLDG STK	uCi/cc	flow-cfm
RM-063	4.04E+001	2.43E+004

CONTAMN LEAK	R/hr	flow-cfm
Cont. Area	4.15E+005	1.50E+000

Comments:

Plume 17 at 1055

1. Location: (X) CONTAINMENT (X) STACK ( ) CDSR/M STM ( ) RW BLD
2. ESTIMATED RELEASE DURATION: 4.00 HOURS

3. QUANTITY AND RATE:
   9.46E+006 CURIES NOBLE GAS AT 6.57E+002 CURIES/SECOND
   1.89E+005 CURIES IODINE AT 1.31E+001 CURIES/SECOND
   8.62E+003 CURIES PARTICULATE AT 5.99E-001 CURIES/SECOND

4. METEOROLOGICAL:
   ATMOSPHERIC MIXING CONDITION: UNLIMITED MIXING
   WIND SPEED: 15 (MPH) WIND DIRECTION: FROM 270 (DEG)
   DELTA T: -1.6 (DEG) AMBIENT TEMP: 25 (DEG C)
   STABILITY CATEGORY: C MIXING HEIGHT 1020.5 (METERS)

5. Affected Sectors: D, E, F

6.

	A. PROJECTED DOSE RATE (REM/HR)		B. PROJECTED INTEGRATED DOSE (REM)	
	TEDE	CDE	TEDE	CDE
SITE BOUNDARY:	1.66E+000	1.01E+001	6.63E+000	4.02E+001
AT 2 MILES:	3.19E-001	2.03E+000	1.28E+000	8.14E+000
AT 5 MILES:	5.08E-002	3.47E-001	2.03E-001	1.39E+000
AT 10 MILES:	1.18E-002	8.86E-002	4.74E-002	3.54E-001

Notes: 1. Calculated using the Straightline Gaussian Model.
2. Doses/Rates < 1E-4 are displayed as zero.

Reviewed by: _____

AUX BLDG STK	uCi/cc	flow-cfm
RM-063	5.66E+001	2.43E+004

CONTAMN LEAK	R/hr	flow-cfm
Cont. Area	4.44E+005	1.50E+000

Comments:

Plume 18 at 1140

1. Location: (X) CONTAINMENT (X) STACK ( ) CDSR/M STM ( ) RW BLD
2. ESTIMATED RELEASE DURATION: 4.00 HOURS

3. QUANTITY AND RATE:
   4.04E+006 CURIES NOBLE GAS AT 2.80E+002 CURIES/SECOND
   8.07E+004 CURIES IODINE AT 5.61E+000 CURIES/SECOND
   3.62E+003 CURIES PARTICULATE AT 2.52E-001 CURIES/SECOND

4. METEOROLOGICAL:
   ATMOSPHERIC MIXING CONDITION: UNLIMITED MIXING
   WIND SPEED: 15 (MPH) WIND DIRECTION: FROM 270 (DEG)
   DELTA T: -1.6 (DEG) AMBIENT TEMP: 25 (DEG C)
   STABILITY CATEGORY: C MIXING HEIGHT 1020.5 (METERS)

5. Affected Sectors: D, E, F

6.

	A. PROJECTED DOSE RATE (REM/HR)		B. PROJECTED INTEGRATED DOSE (REM)	
	TEDE	CDE	TEDE	CDE
SITE BOUNDARY:	7.07E-001	4.29E+000	2.83E+000	1.72E+001
AT 2 MILES:	1.36E-001	8.68E-001	5.44E-001	3.47E+000
AT 5 MILES:	2.17E-002	1.48E-001	8.66E-002	5.93E-001
AT 10 MILES:	5.05E-003	3.78E-002	2.02E-002	1.51E-001

Notes: 1. Calculated using the Straightline Gaussian Model.
2. Doses/Rates < 1E-4 are displayed as zero.

Reviewed by: _____

AUX BLDG STK	uCi/cc	flow-cfm
RM-063	2.38E+001	2.43E+004

CONTAMN LEAK	R/hr	flow-cfm
Cont. Area	4.11E+005	1.50E+000

Comments:

Plume 19 at 1140

1. Location: (X) CONTAINMENT (X) STACK ( ) CDSR/M STM ( ) RW BLD
2. ESTIMATED RELEASE DURATION: 4.00 HOURS

3. QUANTITY AND RATE:
   1.91E+006 CURIES NOBLE GAS AT 1.33E+002 CURIES/SECOND
   3.82E+004 CURIES IODINE AT 2.65E+000 CURIES/SECOND
   1.68E+003 CURIES PARTICULATE AT 1.16E-001 CURIES/SECOND

4. METEOROLOGICAL:
   ATMOSPHERIC MIXING CONDITION: UNLIMITED MIXING
   WIND SPEED: 15 (MPH) WIND DIRECTION: FROM 270 (DEG)
   DELTA T: -1.6 (DEG) AMBIENT TEMP: 25 (DEG C)
   STABILITY CATEGORY: C MIXING HEIGHT 1020.5 (METERS)

5. Affected Sectors: D, E, F

6.

	A. PROJECTED DOSE RATE (REM/HR)		B. PROJECTED INTEGRATED DOSE (REM)	
	TEDE	CDE	TEDE	CDE
SITE BOUNDARY:	3.34E-001	2.03E+000	1.34E+000	8.12E+000
AT 2 MILES:	6.43E-002	4.10E-001	2.57E-001	1.64E+000
AT 5 MILES:	1.02E-002	7.01E-002	4.09E-002	2.80E-001
AT 10 MILES:	2.38E-003	1.79E-002	9.53E-003	7.15E-002

Notes: 1. Calculated using the Straightline Gaussian Model.
2. Doses/Rates < 1E-4 are displayed as zero.

Reviewed by: _____

AUX BLDG STK	uCi/cc	flow-cfm
RM-063	1.10E+001	2.43E+004

CONTAMN LEAK	R/hr	flow-cfm
Cont. Area	3.61E+005	1.50E+000

Comments:

Plume 20 at 1155

1. Location: (X) CONTAINMENT (X) STACK ( ) CDSR/M STM ( ) RW BLD
2. ESTIMATED RELEASE DURATION: 4.00 HOURS

3. QUANTITY AND RATE:
   9.66E+005 CURIES NOBLE GAS AT 6.71E+001 CURIES/SECOND
   1.93E+004 CURIES IODINE AT 1.34E+000 CURIES/SECOND
   8.18E+002 CURIES PARTICULATE AT 5.68E-002 CURIES/SECOND

4. METEOROLOGICAL:
   ATMOSPHERIC MIXING CONDITION: UNLIMITED MIXING
   WIND SPEED: 15 (MPH) WIND DIRECTION: FROM 270 (DEG)
   DELTA T: -1.6 (DEG) AMBIENT TEMP: 25 (DEG C)
   STABILITY CATEGORY: C MIXING HEIGHT 1020.5 (METERS)

5. Affected Sectors: D, E, F

6.

	A. PROJECTED DOSE RATE (REM/HR)		B. PROJECTED INTEGRATED DOSE (REM)	
	TEDE	CDE	TEDE	CDE
SITE BOUNDARY:	1.69E-001	1.03E+000	6.74E-001	4.10E+000
AT 2 MILES:	3.24E-002	2.07E-001	1.30E-001	8.30E-001
AT 5 MILES:	5.16E-003	3.54E-002	2.07E-002	1.42E-001
AT 10 MILES:	1.20E-003	9.04E-003	4.81E-003	3.61E-002

Notes: 1. Calculated using the Straightline Gaussian Model.
2. Doses/Rates < 1E-4 are displayed as zero.

Reviewed by: _____

AUX BLDG STK	uCi/cc	flow-cfm
RM-063	5.37E+000	2.43E+004

CONTAMN LEAK	R/hr	flow-cfm
Cont. Area	3.08E+005	1.50E+000

Comments:

Plume 21 at 1210

1. Location: (X) CONTAINMENT (X) STACK ( ) CDSR/M STM ( ) RW BLD
2. ESTIMATED RELEASE DURATION: 4.00 HOURS

3. QUANTITY AND RATE:
   5.18E+005 CURIES NOBLE GAS AT 3.60E+001 CURIES/SECOND
   1.04E+004 CURIES IODINE AT 7.20E-001 CURIES/SECOND
   4.17E+002 CURIES PARTICULATE AT 2.90E-002 CURIES/SECOND

4. METEOROLOGICAL:
   ATMOSPHERIC MIXING CONDITION: UNLIMITED MIXING
   WIND SPEED: 15 (MPH) WIND DIRECTION: FROM 270 (DEG)
   DELTA T: -1.6 (DEG) AMBIENT TEMP: 25 (DEG C)
   STABILITY CATEGORY: C MIXING HEIGHT 1020.5 (METERS)

5. Affected Sectors: D, E, F

6.

	A. PROJECTED DOSE RATE (REM/HR)		B. PROJECTED INTEGRATED DOSE (REM)	
	TEDE	CDE	TEDE	CDE
SITE BOUNDARY:	9.03E-002	5.50E-001	3.61E-001	2.20E+000
AT 2 MILES:	1.74E-002	1.11E-001	6.95E-002	4.45E-001
AT 5 MILES:	2.76E-003	1.90E-002	1.11E-002	7.60E-002
AT 10 MILES:	6.44E-004	4.85E-003	2.57E-003	1.94E-002

Notes: 1. Calculated using the Straightline Gaussian Model.
2. Doses/Rates < 1E-4 are displayed as zero.

Reviewed by: _____

AUX BLDG STK	uCi/cc	flow-cfm
RM-063	2.74E+000	2.43E+004

CONTAMN LEAK	R/hr	flow-cfm
Cont. Area	2.57E+005	1.50E+000

Comments:

Most bounding Dose assessment at 1105, based on the highest reading on RM-063, stack flow of 24300 cfm, and the meteorogical data listed below.

1. Location: (X) CONTAINMENT (X) STACK ( ) CDSR/M STM ( ) RW BLD
2. ESTIMATED RELEASE DURATION: 4.00 HOURS

3. QUANTITY AND RATE:
   1.29E+007 CURIES NOBLE GAS AT 8.97E+002 CURIES/SECOND
   2.58E+005 CURIES IODINE AT 1.79E+001 CURIES/SECOND
   1.18E+004 CURIES PARTICULATE AT 8.20E-001 CURIES/SECOND

4. METEOROLOGICAL:
   ATMOSPHERIC MIXING CONDITION: UNLIMITED MIXING
   WIND SPEED: 15 (MPH) WIND DIRECTION: FROM 270 (DEG)
   DELTA T: -1.6 (DEG) AMBIENT TEMP: 25 (DEG C)
   STABILITY CATEGORY: C MIXING HEIGHT 1020.5 (METERS)

5. Affected Sectors: D, E, F

6.

	A. PROJECTED DOSE RATE (REM/HR)		B. PROJECTED INTEGRATED DOSE (REM)	
	TEDE	CDE	TEDE	CDE
SITE BOUNDARY:	2.26E+000	1.37E+001	9.05E+000	5.49E+001
AT 2 MILES:	4.36E-001	2.78E+000	1.74E+000	1.11E+001
AT 5 MILES:	6.94E-002	4.74E-001	2.77E-001	1.90E+000
AT 10 MILES:	1.62E-002	1.21E-001	6.46E-002	4.84E-001

Notes: 1. Calculated using the Straightline Gaussian Model.
2. Doses/Rates < 1E-4 are displayed as zero.

Reviewed by: _____

AUX BLDG STK	uCi/cc	flow-cfm
RM-063	7.75E+001	2.43E+004

CONTAMN LEAK	R/hr	flow-cfm
Cont. Area	4.46E+005	1.50E+000

Comments:

Fort Calhoun Radiation Monitors

Real Time	Drill Time	Auxiliary Building Area Monitors															
		RM-076		RM-077		RM-078		RM-079		RM-080		RM-081		RM-082		RM-084	
		mR/hr		mR/hr		mR/hr		mR/hr		mR/hr		mR/hr		mR/hr		mR/hr	
	Bkgnd	1.00E-01		1.00E-01		1.00E-01		1.00E-01		1.00E-01		1.00E-01		1.00E-01		1.00E-01	
	Inv Lo	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?
	Alert	1.00E+01	*	1.00E+01	*	1.00E+01	*	1.00E+01	*	1.00E+01	*	1.00E+01	*	1.00E+01	*	1.00E+01	*
	High	3.00E+01	**	3.00E+01	**	3.00E+01	**	3.00E+01	**	3.00E+01	**	3.00E+01	**	3.00E+01	**	3.00E+01	**
	Inv Hi	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?
7:00	0:00	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E+00		1.00E-01	?	1.00E-01	?
7:05	0:05	4.61E+02	**	4.61E+02	**	3.93E+03	**	4.92E+02	**	2.84E-01		1.67E+01	*	1.58E+01	*	2.05E-01	
7:10	0:10	4.01E+03	**	4.01E+03	**	1.38E+04	**	5.29E+03	**	5.52E+01	**	4.93E+02	**	4.92E+02	**	3.17E+01	**
7:15	0:15	5.61E+03	**	5.61E+03	**	1.25E+04	**	8.70E+03	**	2.64E+02	**	1.17E+03	**	1.17E+03	**	1.51E+02	**
7:20	0:20	4.36E+03	**	4.36E+03	**	7.98E+03	**	7.53E+03	**	4.53E+02	**	1.28E+03	**	1.28E+03	**	2.44E+02	**
7:25	0:25	2.80E+03	**	2.80E+03	**	4.61E+03	**	5.14E+03	**	5.24E+02	**	1.10E+03	**	1.10E+03	**	2.50E+02	**
7:30	0:30	1.69E+03	**	1.69E+03	**	2.61E+03	**	3.18E+03	**	5.11E+02	**	8.78E+02	**	8.78E+02	**	2.10E+02	**
7:35	0:35	1.01E+03	**	1.01E+03	**	1.47E+03	**	1.89E+03	**	4.58E+02	**	6.86E+02	**	6.85E+02	**	1.61E+02	**
7:40	0:40	6.06E+02	**	6.06E+02	**	8.28E+02	**	1.10E+03	**	3.93E+02	**	5.34E+02	**	5.33E+02	**	1.20E+02	**
7:45	0:45	3.72E+02	**	3.72E+02	**	4.74E+02	**	6.42E+02	**	3.28E+02	**	4.18E+02	**	4.17E+02	**	8.88E+01	**
7:50	0:50	2.35E+02	**	2.35E+02	**	2.77E+02	**	3.77E+02	**	2.70E+02	**	3.29E+02	**	3.28E+02	**	6.64E+01	**
7:55	0:55	1.54E+02	**	1.54E+02	**	1.66E+02	**	2.25E+02	**	2.21E+02	**	2.61E+02	**	2.60E+02	**	5.03E+01	**
8:00	1:00	1.04E+02	**	1.04E+02	**	1.03E+02	**	1.37E+02	**	1.80E+02	**	2.07E+02	**	2.07E+02	**	3.87E+01	**
8:05	1:05	7.37E+01	**	7.37E+01	**	6.66E+01	**	8.62E+01	**	1.46E+02	**	1.66E+02	**	1.66E+02	**	3.01E+01	**
8:10	1:10	5.37E+01	**	5.37E+01	**	4.46E+01	**	5.59E+01	**	1.19E+02	**	1.33E+02	**	1.33E+02	**	2.37E+01	*
8:15	1:15	4.02E+01	**	4.02E+01	**	3.10E+01	**	3.75E+01	**	9.63E+01	**	1.07E+02	**	1.07E+02	**	1.89E+01	*
8:20	1:20	3.08E+01	**	3.08E+01	**	2.23E+01	*	2.61E+01	*	7.83E+01	**	8.69E+01	**	8.69E+01	**	1.51E+01	*
8:25	1:25	2.40E+01	*	2.40E+01	*	1.65E+01	*	1.87E+01	*	6.37E+01	**	7.05E+01	**	7.05E+01	**	1.22E+01	*
8:30	1:30	1.90E+01	*	1.90E+01	*	1.25E+01	*	1.38E+01	*	5.19E+01	**	5.72E+01	**	5.72E+01	**	9.86E+00	
8:35	1:35	1.52E+01	*	1.52E+01	*	9.71E+00		1.04E+01	*	4.23E+01	**	4.66E+01	**	4.66E+01	**	8.01E+00	
8:40	1:40	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?
8:45	1:45	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?
8:50	1:50	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?
8:55	1:55	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?
9:00	2:00	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?
9:05	2:05	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?
9:10	2:10	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?
9:15	2:15	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?
9:20	2:20	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?
9:25	2:25	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?
9:30	2:30	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?
9:35	2:35	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?
9:40	2:40	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?
9:45	2:45	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?
9:50	2:50	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?
9:55	2:55	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?
10:00	3:00	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?
10:05	3:05	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?
10:10	3:10	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?
10:15	3:15	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?
10:20	3:20	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?

Fort Calhoun Radiation Monitors

Real Time	Drill Time	Auxiliary Building Area Monitors															
		RM-076		RM-077		RM-078		RM-079		RM-080		RM-081		RM-082		RM-084	
		mR/hr		mR/hr		mR/hr		mR/hr		mR/hr		mR/hr		mR/hr		mR/hr	
	Bkgnd	1.00E-01		1.00E-01		1.00E-01		1.00E-01		1.00E-01		1.00E-01		1.00E-01		1.00E-01	
	Inv Lo	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?
	Alert	1.00E+01	*	1.00E+01	*	1.00E+01	*	1.00E+01	*	1.00E+01	*	1.00E+01	*	1.00E+01	*	1.00E+01	*
	High	3.00E+01	**	3.00E+01	**	3.00E+01	**	3.00E+01	**	3.00E+01	**	3.00E+01	**	3.00E+01	**	3.00E+01	**
	Inv Hi	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?
10:25	3:25	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?
10:30	3:30	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?
10:35	3:35	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?
10:40	3:40	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?
10:45	3:45	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?
10:50	3:50	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?
10:55	3:55	1.00E+07	*?	1.00E+07	*?	5.20E+06	**	6.15E+05	**	1.83E+05	**	2.88E+06	**	2.88E+06	**	1.04E+05	**
11:00	4:00	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	8.56E+06	**	2.08E+06	**	1.00E+07	*?	1.00E+07	*?	1.21E+06	**
11:05	4:05	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	4.97E+06	**	1.00E+07	*?	1.00E+07	*?	2.76E+06	**
11:10	4:10	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	7.72E+06	**	1.00E+07	*?	1.00E+07	*?	3.97E+06	**
11:15	4:15	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	8.90E+06	**	1.00E+07	*?	1.00E+07	*?	4.08E+06	**
11:20	4:20	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	8.79E+06	**	1.00E+07	*?	1.00E+07	*?	3.48E+06	**
11:25	4:25	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	8.06E+06	**	1.00E+07	*?	1.00E+07	*?	2.76E+06	**
11:30	4:30	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	7.10E+06	**	9.71E+06	**	9.71E+06	**	2.14E+06	**
11:35	4:35	8.92E+06	**	8.92E+06	**	1.00E+07	*?	1.00E+07	*?	6.10E+06	**	7.88E+06	**	7.88E+06	**	1.66E+06	**
11:40	4:40	6.06E+06	**	6.06E+06	**	1.00E+07	*?	1.00E+07	*?	5.16E+06	**	6.40E+06	**	6.40E+06	**	1.29E+06	**
11:45	4:45	4.19E+06	**	4.19E+06	**	1.00E+07	*?	1.00E+07	*?	4.32E+06	**	5.20E+06	**	5.20E+06	**	1.01E+06	**
11:50	4:50	2.95E+06	**	2.95E+06	**	9.71E+06	**	9.91E+06	**	3.59E+06	**	4.23E+06	**	4.23E+06	**	7.96E+05	**
11:55	4:55	2.12E+06	**	2.12E+06	**	7.25E+06	**	7.46E+06	**	2.97E+06	**	3.44E+06	**	3.44E+06	**	6.32E+05	**
12:00	5:00	1.55E+06	**	1.55E+06	**	5.42E+06	**	5.60E+06	**	2.45E+06	**	2.80E+06	**	2.80E+06	**	5.05E+05	**
12:05	5:05	1.15E+06	**	1.15E+06	**	4.05E+06	**	4.20E+06	**	2.01E+06	**	2.28E+06	**	2.28E+06	**	4.05E+05	**
12:10	5:10	8.62E+05	**	8.62E+05	**	3.04E+06	**	3.15E+06	**	1.65E+06	**	1.86E+06	**	1.86E+06	**	3.26E+05	**
12:15	5:15	6.56E+05	**	6.56E+05	**	2.28E+06	**	2.37E+06	**	1.35E+06	**	1.51E+06	**	1.51E+06	**	2.63E+05	**
12:20	5:20	5.05E+05	**	5.05E+05	**	1.72E+06	**	1.78E+06	**	1.11E+06	**	1.23E+06	**	1.23E+06	**	2.13E+05	**
12:25	5:25	3.92E+05	**	3.92E+05	**	1.30E+06	**	1.35E+06	**	9.06E+05	**	1.00E+06	**	1.00E+06	**	1.73E+05	**
12:30	5:30	3.07E+05	**	3.07E+05	**	9.92E+05	**	1.02E+06	**	7.41E+05	**	8.19E+05	**	8.19E+05	**	1.40E+05	**

Fort Calhoun Radiation Monitors

Real Time	Drill Time	Auxiliary Building Room 69 Area Monitors								Cntrl Room		Radwaste Building Area Monitors							
		RM-085		RM-086		RM-087		RM-088		RM-089		RM-095		RM-096		RM-097		RM-098	
		mR/hr		mR/hr		mR/hr		mR/hr		mR/hr		mR/hr		mR/hr		mR/hr		mR/hr	
	Bkgnd	1.00E-01		1.10E-01		1.00E-01		1.00E-01		1.00E-01		2.00E+01		1.00E-01		1.00E-01		1.00E-01	
	Inv Lo	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?
	Alert	1.00E+01	*	1.00E+01	*	1.00E+01	*	1.00E+01	*	1.00E+01	*	1.00E+02	*	1.00E+01	*	1.00E+01	*	1.00E+01	*
	High	3.00E+01	**	3.00E+01	**	3.00E+01	**	3.00E+01	**	3.00E+01	**	1.60E+02	**	3.00E+01	**	3.00E+01	**	3.00E+01	**
	Inv Hi	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?
7:00	0:00	4.10E+00		1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	4.70E+00		1.00E-01	?	1.00E-01	?	1.00E-01	?
7:05	0:05	4.24E+00		1.69E-01		2.36E-01		1.69E-01		1.00E-01	?	4.70E+00		1.00E-01	?	1.00E-01	?	1.00E-01	?
7:10	0:10	3.73E+01	**	3.80E+01	**	3.33E+01	**	3.80E+01	**	1.01E-01		4.70E+00		1.00E-01	?	1.00E-01	?	1.00E-01	?
7:15	0:15	1.61E+02	**	2.37E+02	**	1.57E+02	**	2.37E+02	**	1.13E-01		4.70E+00		1.00E-01	?	1.00E-01	?	1.00E-01	?
7:20	0:20	2.83E+02	**	4.85E+02	**	2.79E+02	**	4.85E+02	**	1.65E-01		4.70E+00		1.00E-01	?	1.00E-01	?	1.00E-01	?
7:25	0:25	3.39E+02	**	6.25E+02	**	3.35E+02	**	6.25E+02	**	2.62E-01		4.70E+00		1.00E-01	?	1.00E-01	?	1.00E-01	?
7:30	0:30	3.40E+02	**	6.49E+02	**	3.36E+02	**	6.49E+02	**	3.82E-01		4.70E+00		1.00E-01	?	1.00E-01	?	1.00E-01	?
7:35	0:35	3.10E+02	**	6.04E+02	**	3.06E+02	**	6.04E+02	**	4.93E-01		4.70E+00		1.00E-01	?	1.00E-01	?	1.00E-01	?
7:40	0:40	2.70E+02	**	5.31E+02	**	2.66E+02	**	5.31E+02	**	5.74E-01		4.70E+00		1.00E-01	?	1.00E-01	?	1.00E-01	?
7:45	0:45	2.28E+02	**	4.50E+02	**	2.24E+02	**	4.50E+02	**	6.19E-01		4.70E+00		1.00E-01	?	1.00E-01	?	1.00E-01	?
7:50	0:50	1.89E+02	**	3.74E+02	**	1.85E+02	**	3.74E+02	**	6.29E-01		4.70E+00		1.00E-01	?	1.00E-01	?	1.00E-01	?
7:55	0:55	1.56E+02	**	3.08E+02	**	1.52E+02	**	3.08E+02	**	6.13E-01		4.70E+00		1.00E-01	?	1.00E-01	?	1.00E-01	?
8:00	1:00	1.25E+02	**	2.52E+02	**	1.24E+02	**	2.52E+02	**	5.79E-01		1.16E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
8:05	1:05	1.02E+02	**	2.05E+02	**	1.01E+02	**	2.05E+02	**	5.34E-01		1.16E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
8:10	1:10	8.30E+01	**	1.67E+02	**	8.18E+01	**	1.67E+02	**	4.84E-01		1.16E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
8:15	1:15	6.77E+01	**	1.36E+02	**	6.65E+01	**	1.36E+02	**	4.34E-01		1.16E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
8:20	1:20	5.53E+01	**	1.10E+02	**	5.41E+01	**	1.10E+02	**	3.87E-01		1.16E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
8:25	1:25	4.52E+01	**	8.99E+01	**	4.40E+01	**	8.99E+01	**	3.43E-01		1.16E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
8:30	1:30	3.71E+01	**	7.33E+01	**	3.59E+01	**	7.32E+01	**	3.04E-01		1.16E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
8:35	1:35	3.04E+01	**	5.97E+01	**	2.92E+01	*	5.97E+01	**	2.70E-01		1.16E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
8:40	1:40	1.00E-01	?	1.31E-01		1.00E-01	?	1.21E-01		1.00E-01	?	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
8:45	1:45	1.00E-01	?	1.84E-01		1.00E-01	?	1.74E-01		1.00E-01	?	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
8:50	1:50	1.00E-01	?	2.27E-01		1.00E-01	?	2.17E-01		1.00E-01	?	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
8:55	1:55	1.00E-01	?	2.14E-01		1.00E-01	?	2.04E-01		1.00E-01	?	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
9:00	2:00	1.00E-01	?	2.03E-01		1.00E-01	?	1.93E-01		1.00E-01	?	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
9:05	2:05	1.00E-01	?	1.93E-01		1.00E-01	?	1.83E-01		1.00E-01	?	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
9:10	2:10	1.00E-01	?	1.84E-01		1.00E-01	?	1.74E-01		1.00E-01	?	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
9:15	2:15	1.00E-01	?	1.76E-01		1.00E-01	?	1.66E-01		1.00E-01	?	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
9:20	2:20	1.00E-01	?	1.69E-01		1.00E-01	?	1.59E-01		1.00E-01	?	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
9:25	2:25	1.00E-01	?	1.63E-01		1.00E-01	?	1.53E-01		1.00E-01	?	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
9:30	2:30	1.00E-01	?	1.57E-01		1.00E-01	?	1.47E-01		1.00E-01	?	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
9:35	2:35	1.00E-01	?	1.52E-01		1.00E-01	?	1.42E-01		1.00E-01	?	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
9:40	2:40	1.00E-01	?	1.48E-01		1.00E-01	?	1.38E-01		1.00E-01	?	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
9:45	2:45	1.00E-01	?	1.43E-01		1.00E-01	?	1.33E-01		1.00E-01	?	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
9:50	2:50	1.00E-01	?	1.39E-01		1.00E-01	?	1.29E-01		1.00E-01	?	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
9:55	2:55	1.00E-01	?	1.35E-01		1.00E-01	?	1.25E-01		1.00E-01	?	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
10:00	3:00	1.00E-01	?	1.32E-01		1.00E-01	?	1.22E-01		1.00E-01	?	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
10:05	3:05	1.00E-01	?	1.29E-01		1.00E-01	?	1.19E-01		1.00E-01	?	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
10:10	3:10	1.00E-01	?	1.27E-01		1.00E-01	?	1.17E-01		1.00E-01	?	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
10:15	3:15	1.00E-01	?	1.24E-01		1.00E-01	?	1.14E-01		1.00E-01	?	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
10:20	3:20	1.00E-01	?	1.23E-01		1.00E-01	?	1.13E-01		1.00E-01	?	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?

Fort Calhoun Radiation Monitors

Real Time	Drill Time	Auxiliary Building Room 69 Area Monitors								Cntrl Room		Radwaste Building Area Monitors							
		RM-085		RM-086		RM-087		RM-088		RM-089		RM-095		RM-096		RM-097		RM-098	
		mR/hr		mR/hr		mR/hr		mR/hr		mR/hr		mR/hr		mR/hr		mR/hr		mR/hr	
	Bkgnd	1.00E-01		1.10E-01		1.00E-01		1.00E-01		1.00E-01		2.00E+01		1.00E-01		1.00E-01		1.00E-01	
	Inv Lo	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?
	Alert	1.00E+01	*	1.00E+01	*	1.00E+01	*	1.00E+01	*	1.00E+01	*	1.00E+02	*	1.00E+01	*	1.00E+01	*	1.00E+01	*
	High	3.00E+01	**	3.00E+01	**	3.00E+01	**	3.00E+01	**	3.00E+01	**	1.60E+02	**	3.00E+01	**	3.00E+01	**	3.00E+01	**
	Inv Hi	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?
10:25	3:25	1.00E-01	?	1.27E-01		1.00E-01	?	1.17E-01		1.00E-01	?	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
10:30	3:30	1.00E-01	?	1.43E-01		1.00E-01	?	1.33E-01		1.00E-01	?	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
10:35	3:35	1.00E-01	?	3.34E-01		1.00E-01	?	3.24E-01		1.00E-01	?	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
10:40	3:40	1.00E-01	?	2.64E+00		1.00E-01	?	2.63E+00		1.00E-01	?	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
10:45	3:45	1.00E-01	?	5.35E+00		1.00E-01	?	5.34E+00		1.00E-01	?	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
10:50	3:50	1.00E-01	?	7.42E+00		1.00E-01	?	7.41E+00		1.00E-01	?	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
10:55	3:55	1.19E+05	**	9.66E+04	**	1.19E+05	**	9.66E+04	**	1.00E-01	?	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
11:00	4:00	1.23E+06	**	1.75E+06	**	1.23E+06	**	1.75E+06	**	1.08E+01	*	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
11:05	4:05	3.03E+06	**	5.00E+06	**	3.03E+06	**	5.00E+06	**	1.26E+02	**	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
11:10	4:10	4.83E+06	**	8.59E+06	**	4.83E+06	**	8.59E+06	**	5.13E+02	**	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
11:15	4:15	5.75E+06	**	1.00E+07	*?	5.75E+06	**	1.00E+07	*?	1.28E+03	**	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
11:20	4:20	5.81E+06	**	1.00E+07	*?	5.81E+06	**	1.00E+07	*?	2.39E+03	**	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
11:25	4:25	5.41E+06	**	1.00E+07	*?	5.41E+06	**	1.00E+07	*?	3.62E+03	**	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
11:30	4:30	4.81E+06	**	9.61E+06	**	4.81E+06	**	9.61E+06	**	4.78E+03	**	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
11:35	4:35	4.16E+06	**	8.37E+06	**	4.16E+06	**	8.37E+06	**	5.70E+03	**	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
11:40	4:40	3.53E+06	**	7.14E+06	**	3.53E+06	**	7.14E+06	**	6.32E+03	**	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
11:45	4:45	2.97E+06	**	6.02E+06	**	2.97E+06	**	6.02E+06	**	6.62E+03	**	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
11:50	4:50	2.47E+06	**	5.02E+06	**	2.47E+06	**	5.02E+06	**	6.64E+03	**	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
11:55	4:55	2.05E+06	**	4.17E+06	**	2.05E+06	**	4.17E+06	**	6.44E+03	**	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
12:00	5:00	1.69E+06	**	3.44E+06	**	1.69E+06	**	3.44E+06	**	6.08E+03	**	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
12:05	5:05	1.39E+06	**	2.84E+06	**	1.39E+06	**	2.84E+06	**	5.61E+03	**	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
12:10	5:10	1.14E+06	**	2.33E+06	**	1.14E+06	**	2.33E+06	**	5.09E+03	**	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
12:15	5:15	9.36E+05	**	1.91E+06	**	9.36E+05	**	1.91E+06	**	4.54E+03	**	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
12:20	5:20	7.67E+05	**	1.57E+06	**	7.67E+05	**	1.57E+06	**	4.00E+03	**	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
12:25	5:25	6.28E+05	**	1.28E+06	**	6.28E+05	**	1.28E+06	**	3.48E+03	**	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?
12:30	5:30	5.13E+05	**	1.05E+06	**	5.13E+05	**	1.05E+06	**	3.01E+03	**	2.00E+01		1.00E-01	?	1.00E-01	?	1.00E-01	?

Fort Calhoun Radiation Monitors

Real Time	Drill Time	Aux Building Stack Monitors						Main Steam/Condenser Monitors									
		RM-052S		RM-062		RM-063		RM-057		RM-064A		RM-064B		RM-054A		RM-54B	
		cpm		cpm		uCi/cc		cpm		cpm		cpm		cpm		cpm	
	Bkgnd	5.80E+01		5.00E+01		1.00E-03		4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
	Inv Lo	1.00E+01	?	1.00E+01	?	1.00E-03	?	1.00E+01	?	1.00E+01	?	1.00E+01	?	1.00E+01	?	1.00E+01	?
	Alert	9.16E+03	*	8.24E+03	*	N/A	*	1.50E+02	*	N/A	*	N/A	*	9.83E+03	*	9.84E+03	*
	High	4.58E+04	**	4.12E+04	**	N/A	**	8.63E+03	**	N/A	**	N/A	**	9.83E+04	**	9.84E+04	**
	Inv Hi	1.00E+07	*?	1.00E+07	*?	1.00E+05	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?
7:00	0:00	5.80E+01		5.00E+01		1.00E-03	?	4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
7:05	0:05	4.38E+05	**	3.94E+05	**	2.18E-02		4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
7:10	0:10	6.68E+05	**	6.01E+05	**	3.28E-02		4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
7:15	0:15	3.47E+05	**	3.13E+05	**	1.75E-02		4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
7:20	0:20	1.60E+05	**	1.44E+05	**	8.60E-03		4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
7:25	0:25	8.13E+04	**	7.32E+04	**	4.87E-03		4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
7:30	0:30	4.50E+04	*	4.05E+04	*	3.14E-03		4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
7:35	0:35	2.69E+04	*	2.42E+04	*	2.28E-03		4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
7:40	0:40	1.73E+04	*	1.56E+04	*	1.82E-03		4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
7:45	0:45	1.18E+04	*	1.06E+04	*	1.56E-03		4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
7:50	0:50	8.48E+03		7.63E+03		1.40E-03		4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
7:55	0:55	6.33E+03		5.70E+03		1.30E-03		4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
8:00	1:00	4.88E+03		4.39E+03		1.23E-03		4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
8:05	1:05	3.84E+03		3.45E+03		1.18E-03		4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
8:10	1:10	3.07E+03		2.76E+03		1.14E-03		4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
8:15	1:15	2.48E+03		2.23E+03		1.12E-03		4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
8:20	1:20	2.03E+03		1.82E+03		1.09E-03		4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
8:25	1:25	1.67E+03		1.50E+03		1.08E-03		4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
8:30	1:30	1.38E+03		1.24E+03		1.06E-03		4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
8:35	1:35	1.14E+03		1.03E+03		1.05E-03		4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
8:40	1:40	5.80E+01		5.00E+01		1.00E-03	?	4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
8:45	1:45	5.80E+01		5.00E+01		1.00E-03	?	4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
8:50	1:50	5.80E+01		5.00E+01		1.00E-03	?	4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
8:55	1:55	5.80E+01		5.00E+01		1.00E-03	?	4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
9:00	2:00	5.80E+01		5.00E+01		1.00E-03	?	4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
9:05	2:05	5.80E+01		5.00E+01		1.00E-03	?	4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
9:10	2:10	5.80E+01		5.00E+01		1.00E-03	?	4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
9:15	2:15	5.80E+01		5.00E+01		1.00E-03	?	4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
9:20	2:20	5.80E+01		5.00E+01		1.00E-03	?	4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
9:25	2:25	5.80E+01		5.00E+01		1.00E-03	?	4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
9:30	2:30	5.80E+01		5.00E+01		1.00E-03	?	4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
9:35	2:35	5.80E+01		5.00E+01		1.00E-03	?	4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
9:40	2:40	5.80E+01		5.00E+01		1.00E-03	?	4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
9:45	2:45	5.80E+01		5.00E+01		1.00E-03	?	4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
9:50	2:50	5.80E+01		5.00E+01		1.00E-03	?	4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
9:55	2:55	5.80E+01		5.00E+01		1.00E-03	?	4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
10:00	3:00	5.80E+01		5.00E+01		1.00E-03	?	4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
10:05	3:05	5.80E+01		5.00E+01		1.00E-03	?	4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
10:10	3:10	5.80E+01		5.00E+01		1.00E-03	?	4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
10:15	3:15	5.80E+01		5.00E+01		1.00E-03	?	4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
10:20	3:20	5.80E+01		5.00E+01		1.00E-03	?	4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	

Fort Calhoun Radiation Monitors

		Aux Building Stack Monitors						Main Steam/Condenser Monitors									
Real	Drill	RM-052S		RM-062		RM-063		RM-057		RM-064A		RM-064B		RM-054A		RM-54B	
Time	Time	cpm		cpm		uCi/cc		cpm		cpm		cpm		cpm		cpm	
	Bkgnd	5.80E+01		5.00E+01		1.00E-03		4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
	Inv Lo	1.00E+01	?	1.00E+01	?	1.00E-03	?	1.00E+01	?	1.00E+01	?	1.00E+01	?	1.00E+01	?	1.00E+01	?
	Alert	9.16E+03	*	8.24E+03	*	N/A	*	1.50E+02	*	N/A	*	N/A	*	9.83E+03	*	9.84E+03	*
	High	4.58E+04	**	4.12E+04	**	N/A	**	8.63E+03	**	N/A	**	N/A	**	9.83E+04	**	9.84E+04	**
	Inv Hi	1.00E+07	*?	1.00E+07	*?	1.00E+05	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?
10:25	3:25	5.80E+01		5.00E+01		1.00E-03	?	4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
10:30	3:30	5.80E+01		5.00E+01		1.00E-03	?	4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
10:35	3:35	5.80E+01		5.00E+01		1.00E-03	?	4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
10:40	3:40	5.80E+01		5.00E+01		1.00E-03	?	4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
10:45	3:45	5.80E+01		5.00E+01		1.00E-03	?	4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
10:50	3:50	5.80E+01		5.00E+01		1.00E-03	?	4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
10:55	3:55	1.00E+07	*?	1.00E+07	*?	4.04E+01		4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
11:00	4:00	1.00E+07	*?	1.00E+07	*?	6.41E+01		4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
11:05	4:05	1.00E+07	*?	1.00E+07	*?	7.75E+01		4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
11:10	4:10	1.00E+07	*?	1.00E+07	*?	5.66E+01		4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
11:15	4:15	1.00E+07	*?	1.00E+07	*?	4.19E+01		4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
11:20	4:20	1.00E+07	*?	1.00E+07	*?	3.14E+01		4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
11:25	4:25	1.00E+07	*?	1.00E+07	*?	2.38E+01		4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
11:30	4:30	1.00E+07	*?	1.00E+07	*?	1.83E+01		4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
11:35	4:35	1.00E+07	*?	1.00E+07	*?	1.41E+01		4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
11:40	4:40	1.00E+07	*?	1.00E+07	*?	1.10E+01		4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
11:45	4:45	1.00E+07	*?	1.00E+07	*?	8.60E+00		4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
11:50	4:50	1.00E+07	*?	1.00E+07	*?	6.78E+00		4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
11:55	4:55	1.00E+07	*?	1.00E+07	*?	5.37E+00		4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
12:00	5:00	1.00E+07	*?	1.00E+07	*?	4.27E+00		4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
12:05	5:05	1.00E+07	*?	1.00E+07	*?	3.42E+00		4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
12:10	5:10	1.00E+07	*?	1.00E+07	*?	2.74E+00		4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
12:15	5:15	1.00E+07	*?	1.00E+07	*?	2.21E+00		4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
12:20	5:20	1.00E+07	*?	1.00E+07	*?	1.79E+00		4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
12:25	5:25	1.00E+07	*?	1.00E+07	*?	1.45E+00		4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	
12:30	5:30	1.00E+07	*?	1.00E+07	*?	1.18E+00		4.50E+01		1.90E+01		1.90E+01		9.60E+01		2.20E+02	

Fort Calhoun Radiation Monitors

Real Time	Drill Time	Miscellaneous Monitors						Containment Area and Process Monitors											
		RM-043		RM-053		RM-055		RM-070		RM-071		RM-072		RM-073		RM-074		RM-075	
		cpm		cpm		cpm		mR/hr		mR/hr		mR/hr		mR/hr		mR/hr		mR/hr	
	Bkgnd	3.60E+01		1.30E+03		1.60E+02		1.20E+01		5.60E+00		4.80E+00		1.51E+02		2.00E+01		1.35E+01	
	Inv Lo	1.00E+01	?	1.00E+01	?	1.00E+01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?
	Alert	3.10E+03	*	6.00E+03	*	1.40E+05	*	3.60E+01	*	2.50E+01	*	2.00E+01	*	3.00E+02	*	5.00E+01	*	3.50E+01	*
	High	1.55E+04	**	2.94E+04	**	1.40E+06	**	6.00E+01	**	3.50E+01	**	3.00E+01	**	5.00E+02	**	8.00E+01	**	6.00E+01	**
	Inv Hi	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?
7:00	0:00	3.60E+01		1.30E+03		1.60E+02		1.20E+01		9.60E+00		8.80E+00		1.51E+02		1.00E+02	**	9.35E+01	**
7:05	0:05	3.60E+01		1.30E+03		1.60E+02		1.20E+01		9.60E+00		8.80E+00		1.51E+02		1.00E+02	**	9.35E+01	**
7:10	0:10	3.60E+01		1.30E+03		1.60E+02		1.20E+01		9.60E+00		8.80E+00		1.51E+02		1.00E+02	**	9.35E+01	**
7:15	0:15	3.60E+01		1.30E+03		1.60E+02		1.20E+01		9.60E+00		8.80E+00		1.51E+02		1.00E+02	**	9.35E+01	**
7:20	0:20	3.60E+01		1.30E+03		1.60E+02		1.20E+01		9.60E+00		8.80E+00		1.51E+02		1.00E+02	**	9.35E+01	**
7:25	0:25	3.60E+01		1.30E+03		1.60E+02		1.20E+01		9.60E+00		8.80E+00		1.51E+02		1.00E+02	**	9.35E+01	**
7:30	0:30	3.60E+01		1.30E+03		1.60E+02		1.20E+01		9.60E+00		8.80E+00		1.51E+02		1.00E+02	**	9.35E+01	**
7:35	0:35	3.60E+01		1.30E+03		1.60E+02		1.20E+01		9.60E+00		8.80E+00		1.51E+02		1.00E+02	**	9.35E+01	**
7:40	0:40	3.60E+01		1.30E+03		1.60E+02		1.20E+01		9.60E+00		8.80E+00		1.51E+02		1.00E+02	**	9.35E+01	**
7:45	0:45	3.60E+01		1.30E+03		1.60E+02		1.20E+01		9.60E+00		8.80E+00		1.51E+02		1.00E+02	**	9.35E+01	**
7:50	0:50	3.60E+01		1.30E+03		1.60E+02		1.20E+01		9.60E+00		8.80E+00		1.51E+02		1.00E+02	**	9.35E+01	**
7:55	0:55	3.60E+01		1.30E+03		1.60E+02		1.20E+01		9.60E+00		8.80E+00		1.51E+02		1.00E+02	**	9.35E+01	**
8:00	1:00	3.60E+01		1.30E+03		1.60E+02		3.60E+00		4.10E+00		7.41E+00		2.40E+01		2.01E+01		2.01E+01	
8:05	1:05	3.60E+01		1.30E+03		1.60E+02		3.60E+00		4.10E+00		7.41E+00		2.40E+01		2.01E+01		2.01E+01	
8:10	1:10	3.60E+01		1.30E+03		1.60E+02		3.60E+00		4.10E+00		7.41E+00		2.40E+01		2.01E+01		2.01E+01	
8:15	1:15	3.60E+01		1.30E+03		1.60E+02		3.60E+00		4.10E+00		7.41E+00		2.40E+01		2.01E+01		2.01E+01	
8:20	1:20	3.60E+01		1.30E+03		1.60E+02		3.60E+00		4.10E+00		7.41E+00		2.40E+01		2.01E+01		2.01E+01	
8:25	1:25	3.60E+01		1.30E+03		1.60E+02		3.60E+00		4.10E+00		7.41E+00		2.40E+01		2.01E+01		2.01E+01	
8:30	1:30	3.60E+01		1.30E+03		1.60E+02		3.60E+00		4.10E+00		7.41E+00		2.40E+01		2.01E+01		2.01E+01	
8:35	1:35	3.60E+01		1.30E+03		1.60E+02		3.60E+00		4.10E+00		7.41E+00		2.40E+01		2.01E+01		2.01E+01	
8:40	1:40	3.60E+01		1.30E+03		1.60E+02		1.18E+06	**	1.18E+06	**	1.18E+06	**	1.18E+06	**	1.18E+06	**	1.18E+06	**
8:45	1:45	3.60E+01		1.30E+03		1.60E+02		3.76E+06	**	3.76E+06	**	3.76E+06	**	3.76E+06	**	3.76E+06	**	3.76E+06	**
8:50	1:50	3.60E+01		1.30E+03		1.60E+02		5.37E+06	**	5.37E+06	**	5.37E+06	**	5.37E+06	**	5.37E+06	**	5.37E+06	**
8:55	1:55	3.60E+01		1.30E+03		1.60E+02		4.33E+06	**	4.33E+06	**	4.33E+06	**	4.33E+06	**	4.33E+06	**	4.33E+06	**
9:00	2:00	3.60E+01		1.30E+03		1.60E+02		3.59E+06	**	3.59E+06	**	3.59E+06	**	3.59E+06	**	3.59E+06	**	3.59E+06	**
9:05	2:05	3.60E+01		1.30E+03		1.60E+02		3.04E+06	**	3.04E+06	**	3.04E+06	**	3.04E+06	**	3.04E+06	**	3.04E+06	**
9:10	2:10	3.60E+01		1.30E+03		1.60E+02		2.60E+06	**	2.60E+06	**	2.60E+06	**	2.60E+06	**	2.60E+06	**	2.60E+06	**
9:15	2:15	3.60E+01		1.30E+03		1.60E+02		2.25E+06	**	2.25E+06	**	2.25E+06	**	2.25E+06	**	2.25E+06	**	2.25E+06	**
9:20	2:20	3.60E+01		1.30E+03		1.60E+02		1.96E+06	**	1.96E+06	**	1.96E+06	**	1.96E+06	**	1.96E+06	**	1.96E+06	**
9:25	2:25	3.60E+01		1.30E+03		1.60E+02		1.72E+06	**	1.72E+06	**	1.72E+06	**	1.72E+06	**	1.72E+06	**	1.72E+06	**
9:30	2:30	3.60E+01		1.30E+03		1.60E+02		1.52E+06	**	1.52E+06	**	1.52E+06	**	1.52E+06	**	1.52E+06	**	1.52E+06	**
9:35	2:35	3.60E+01		1.30E+03		1.60E+02		1.34E+06	**	1.34E+06	**	1.34E+06	**	1.34E+06	**	1.34E+06	**	1.34E+06	**
9:40	2:40	3.60E+01		1.30E+03		1.60E+02		1.20E+06	**	1.20E+06	**	1.20E+06	**	1.20E+06	**	1.20E+06	**	1.20E+06	**
9:45	2:45	3.60E+01		1.30E+03		1.60E+02		1.03E+06	**	1.03E+06	**	1.03E+06	**	1.03E+06	**	1.03E+06	**	1.03E+06	**
9:50	2:50	3.60E+01		1.30E+03		1.60E+02		8.92E+05	**	8.92E+05	**	8.92E+05	**	8.92E+05	**	8.92E+05	**	8.92E+05	**
9:55	2:55	3.60E+01		1.30E+03		1.60E+02		7.75E+05	**	7.75E+05	**	7.75E+05	**	7.75E+05	**	7.75E+05	**	7.75E+05	**
10:00	3:00	3.60E+01		1.30E+03		1.60E+02		6.75E+05	**	6.75E+05	**	6.75E+05	**	6.75E+05	**	6.75E+05	**	6.75E+05	**
10:05	3:05	3.60E+01		1.30E+03		1.60E+02		5.90E+05	**	5.90E+05	**	5.90E+05	**	5.90E+05	**	5.90E+05	**	5.90E+05	**
10:10	3:10	3.60E+01		1.30E+03		1.60E+02		5.17E+05	**	5.17E+05	**	5.17E+05	**	5.17E+05	**	5.17E+05	**	5.17E+05	**
10:15	3:15	3.60E+01		1.30E+03		1.60E+02		4.55E+05	**	4.55E+05	**	4.55E+05	**	4.55E+05	**	4.55E+05	**	4.55E+05	**
10:20	3:20	3.60E+01		1.30E+03		1.60E+02		4.01E+05	**	4.01E+05	**	4.01E+05	**	4.01E+05	**	4.01E+05	**	4.01E+05	**

Fort Calhoun Radiation Monitors

Real Time	Drill Time	Miscellaneous Monitors						Containment Area and Process Monitors											
		RM-043		RM-053		RM-055		RM-070		RM-071		RM-072		RM-073		RM-074		RM-075	
		cpm		cpm		cpm		mR/hr		mR/hr		mR/hr		mR/hr		mR/hr		mR/hr	
	Bkgnd	3.60E+01		1.30E+03		1.60E+02		1.20E+01		5.60E+00		4.80E+00		1.51E+02		2.00E+01		1.35E+01	
	Inv Lo	1.00E+01	?	1.00E+01	?	1.00E+01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E-01	?
	Alert	3.10E+03	*	6.00E+03	*	1.40E+05	*	3.60E+01	*	2.50E+01	*	2.00E+01	*	3.00E+02	*	5.00E+01	*	3.50E+01	*
	High	1.55E+04	**	2.94E+04	**	1.40E+06	**	6.00E+01	**	3.50E+01	**	3.00E+01	**	5.00E+02	**	8.00E+01	**	6.00E+01	**
	Inv Hi	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?
10:25	3:25	3.60E+01		1.30E+03		1.60E+02		6.69E+05	**	6.69E+05	**	6.69E+05	**	6.69E+05	**	6.69E+05	**	6.69E+05	**
10:30	3:30	3.60E+01		1.30E+03		1.60E+02		1.49E+06	**	1.49E+06	**	1.49E+06	**	1.49E+06	**	1.49E+06	**	1.49E+06	**
10:35	3:35	3.60E+01		1.30E+03		1.60E+02		1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?
10:40	3:40	3.60E+01		1.30E+03		1.60E+02		1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?
10:45	3:45	3.60E+01		1.30E+03		1.60E+02		1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?
10:50	3:50	3.60E+01		1.30E+03		1.60E+02		1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?
10:55	3:55	3.60E+01		1.30E+03		1.60E+02		1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?
11:00	4:00	3.60E+01		1.30E+03		1.60E+02		1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?
11:05	4:05	3.60E+01		1.30E+03		1.60E+02		1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?
11:10	4:10	3.60E+01		1.30E+03		1.60E+02		1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?
11:15	4:15	3.60E+01		1.30E+03		1.60E+02		1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?
11:20	4:20	3.60E+01		1.30E+03		1.60E+02		1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?
11:25	4:25	3.60E+01		1.30E+03		1.60E+02		1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?
11:30	4:30	3.60E+01		1.30E+03		1.60E+02		1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?
11:35	4:35	3.60E+01		1.30E+03		1.60E+02		1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?
11:40	4:40	3.60E+01		1.30E+03		1.60E+02		1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?
11:45	4:45	3.60E+01		1.30E+03		1.60E+02		1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?
11:50	4:50	3.60E+01		1.30E+03		1.60E+02		1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?
11:55	4:55	3.60E+01		1.30E+03		1.60E+02		1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?
12:00	5:00	3.60E+01		1.30E+03		1.60E+02		1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?
12:05	5:05	3.60E+01		1.30E+03		1.60E+02		1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?
12:10	5:10	3.60E+01		1.30E+03		1.60E+02		1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?
12:15	5:15	3.60E+01		1.30E+03		1.60E+02		1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?
12:20	5:20	3.60E+01		1.30E+03		1.60E+02		1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?
12:25	5:25	3.60E+01		1.30E+03		1.60E+02		1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?
12:30	5:30	3.60E+01		1.30E+03		1.60E+02		1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?

Fort Calhoun Radiation Monitors

Real Time	Drill Time	Containment Area and Process Monitors													
		RM-091A		RM-091B		RM-093		RM-050		RM-051		RM-052C		RM-065	
		R/hr		R/hr		mR/hr		cpm		cpm		cpm		cpm	
	Bkgnd	N/A		N/A		1.00E-01		2.23E+04		1.22E+03		1.15E+03		8.00E+01	
	Inv Lo	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E+01	?	1.00E+01	?	1.00E+01	?	1.00E+01	?
	Alert	4.00E+01	*	4.00E+01	*	N/A	*	4.11E+04	*	8.84E+04	*	8.33E+04	*	3.50E+05	*
	High	6.50E+03	**	6.50E+03	**	1.50E+01	**	5.00E+06	**	5.00E+06	**	5.00E+06	**	7.00E+05	**
	Inv Hi	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?
7:00	0:00	1.00E-01	?	1.00E-01	?	1.00E-01	?	2.23E+04		1.22E+03		1.15E+03		8.00E+01	
7:05	0:05	1.00E-01	?	1.00E-01	?	1.00E-01	?	2.23E+04		1.22E+03		1.15E+03		8.00E+01	
7:10	0:10	1.00E-01	?	1.00E-01	?	1.00E-01	?	2.23E+04		1.22E+03		1.15E+03		8.00E+01	
7:15	0:15	1.00E-01	?	1.00E-01	?	1.00E-01	?	2.23E+04		1.22E+03		1.15E+03		8.03E+01	
7:20	0:20	1.00E-01	?	1.00E-01	?	1.00E-01	?	2.23E+04		1.22E+03		1.15E+03		8.05E+01	
7:25	0:25	1.00E-01	?	1.00E-01	?	1.00E-01	?	2.23E+04		1.22E+03		1.15E+03		8.03E+01	
7:30	0:30	1.00E-01	?	1.00E-01	?	1.00E-01	?	2.23E+04		1.22E+03		1.15E+03		8.01E+01	
7:35	0:35	1.00E-01	?	1.00E-01	?	1.00E-01	?	2.23E+04		1.22E+03		1.15E+03		8.00E+01	
7:40	0:40	1.00E-01	?	1.00E-01	?	1.00E-01	?	2.23E+04		1.22E+03		1.15E+03		8.00E+01	
7:45	0:45	1.00E-01	?	1.00E-01	?	1.00E-01	?	2.23E+04		1.22E+03		1.15E+03		8.00E+01	
7:50	0:50	1.00E-01	?	1.00E-01	?	1.00E-01	?	2.23E+04		1.22E+03		1.15E+03		8.00E+01	
7:55	0:55	1.00E-01	?	1.00E-01	?	1.00E-01	?	2.23E+04		1.22E+03		1.15E+03		8.00E+01	
8:00	1:00	1.00E-01	?	1.00E-01	?	1.00E-01	?	2.23E+04		1.22E+03		1.15E+03		8.00E+01	
8:05	1:05	1.00E-01	?	1.00E-01	?	1.00E-01	?	2.23E+04		1.22E+03		1.15E+03		8.00E+01	
8:10	1:10	1.00E-01	?	1.00E-01	?	1.00E-01	?	2.23E+04		1.22E+03		1.15E+03		8.00E+01	
8:15	1:15	1.00E-01	?	1.00E-01	?	1.00E-01	?	2.23E+04		1.22E+03		1.15E+03		8.00E+01	
8:20	1:20	1.00E-01	?	1.00E-01	?	1.00E-01	?	2.23E+04		1.22E+03		1.15E+03		8.00E+01	
8:25	1:25	1.00E-01	?	1.00E-01	?	1.00E-01	?	2.23E+04		1.22E+03		1.15E+03		8.00E+01	
8:30	1:30	1.00E-01	?	1.00E-01	?	1.00E-01	?	2.23E+04		1.22E+03		1.15E+03		8.00E+01	
8:35	1:35	1.00E-01	?	1.00E-01	?	1.00E-01	?	2.23E+04		1.22E+03		1.15E+03		8.00E+01	
8:40	1:40	1.18E+03	*	1.18E+03	*	1.00E-01	?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	8.00E+01	
8:45	1:45	3.76E+03	*	3.76E+03	*	1.00E-01	?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	8.00E+01	
8:50	1:50	5.37E+03	*	5.37E+03	*	1.00E-01	?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	8.00E+01	
8:55	1:55	4.33E+03	*	4.33E+03	*	1.00E-01	?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	8.00E+01	
9:00	2:00	3.59E+03	*	3.59E+03	*	1.00E-01	?	2.23E+04		1.00E+07	*?	1.00E+07	*?	8.00E+01	
9:05	2:05	3.04E+03	*	3.04E+03	*	1.00E-01	?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	8.00E+01	
9:10	2:10	2.60E+03	*	2.60E+03	*	1.00E-01	?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	8.00E+01	
9:15	2:15	2.25E+03	*	2.25E+03	*	1.00E-01	?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	8.00E+01	
9:20	2:20	1.96E+03	*	1.96E+03	*	1.00E-01	?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	8.00E+01	
9:25	2:25	1.72E+03	*	1.72E+03	*	1.00E-01	?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	8.00E+01	
9:30	2:30	1.52E+03	*	1.52E+03	*	1.00E-01	?	2.23E+04		1.00E+07	*?	1.00E+07	*?	8.00E+01	
9:35	2:35	1.34E+03	*	1.34E+03	*	1.00E-01	?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	8.00E+01	
9:40	2:40	1.20E+03	*	1.20E+03	*	1.00E-01	?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	8.00E+01	
9:45	2:45	1.03E+03	*	1.03E+03	*	1.00E-01	?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	8.00E+01	
9:50	2:50	8.92E+02	*	8.92E+02	*	1.00E-01	?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	8.00E+01	
9:55	2:55	7.75E+02	*	7.75E+02	*	1.00E-01	?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	8.00E+01	
10:00	3:00	6.75E+02	*	6.75E+02	*	1.00E-01	?	2.23E+04		1.00E+07	*?	1.00E+07	*?	8.00E+01	
10:05	3:05	5.90E+02	*	5.90E+02	*	1.00E-01	?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	8.00E+01	
10:10	3:10	5.17E+02	*	5.17E+02	*	1.00E-01	?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	8.00E+01	
10:15	3:15	4.55E+02	*	4.55E+02	*	1.00E-01	?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	8.00E+01	
10:20	3:20	4.01E+02	*	4.01E+02	*	1.00E-01	?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	8.00E+01	

Fort Calhoun Radiation Monitors

Real Time	Drill Time	Containment Area and Process Monitors															
		RM-091A		RM-091B		RM-093		RM-050		RM-051		RM-052C		RM-065			
		R/hr		R/hr		mR/hr		cpm		cpm		cpm		cpm			
	Bkgnd	N/A		N/A		1.00E-01		2.23E+04		1.22E+03		1.15E+03		8.00E+01			
	Inv Lo	1.00E-01	?	1.00E-01	?	1.00E-01	?	1.00E+01	?	1.00E+01	?	1.00E+01	?	1.00E+01	?		
	Alert	4.00E+01	*	4.00E+01	*	N/A	*	4.11E+04	*	8.84E+04	*	8.33E+04	*	3.50E+05	*		
	High	6.50E+03	**	6.50E+03	**	1.50E+01	**	5.00E+06	**	5.00E+06	**	5.00E+06	**	7.00E+05	**		
	Inv Hi	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?		
10:25	3:25	6.69E+02	*	6.69E+02	*	1.00E-01	?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	8.00E+01			
10:30	3:30	1.49E+03	*	1.49E+03	*	1.00E-01	?	2.23E+04		1.00E+07	*?	1.00E+07	*?	8.00E+01			
10:35	3:35	1.44E+04	**	1.44E+04	**	1.00E-01	?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	8.00E+01			
10:40	3:40	1.58E+05	**	1.58E+05	**	1.00E-01	?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	8.00E+01			
10:45	3:45	2.93E+05	**	2.93E+05	**	1.00E-01	?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	8.00E+01			
10:50	3:50	3.71E+05	**	3.71E+05	**	1.00E-01	?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	8.00E+01			
10:55	3:55	4.15E+05	**	4.15E+05	**	1.00E-01	?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	8.00E+01			
11:00	4:00	4.38E+05	**	4.38E+05	**	1.00E-01	?	2.23E+04		1.00E+07	*?	1.00E+07	*?	4.27E+02			
11:05	4:05	4.46E+05	**	4.46E+05	**	1.00E-01	?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.29E+03			
11:10	4:10	4.44E+05	**	4.44E+05	**	1.00E-01	?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.78E+03			
11:15	4:15	4.37E+05	**	4.37E+05	**	1.00E-01	?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	1.60E+03			
11:20	4:20	4.25E+05	**	4.25E+05	**	1.00E-01	?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	8.64E+02			
11:25	4:25	4.11E+05	**	4.11E+05	**	1.00E-01	?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	3.52E+02			
11:30	4:30	3.95E+05	**	3.95E+05	**	1.00E-01	?	2.23E+04		1.00E+07	*?	1.00E+07	*?	1.53E+02			
11:35	4:35	3.78E+05	**	3.78E+05	**	1.00E-01	?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	9.69E+01			
11:40	4:40	3.61E+05	**	3.61E+05	**	1.00E-01	?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	8.35E+01			
11:45	4:45	3.43E+05	**	3.43E+05	**	1.00E-01	?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	8.07E+01			
11:50	4:50	3.25E+05	**	3.25E+05	**	1.00E-01	?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	8.01E+01			
11:55	4:55	3.08E+05	**	3.08E+05	**	1.00E-01	?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	8.00E+01			
12:00	5:00	2.90E+05	**	2.90E+05	**	1.00E-01	?	2.23E+04		1.00E+07	*?	1.00E+07	*?	8.00E+01			
12:05	5:05	2.73E+05	**	2.73E+05	**	1.00E-01	?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	8.00E+01			
12:10	5:10	2.57E+05	**	2.57E+05	**	1.00E-01	?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	8.00E+01			
12:15	5:15	2.41E+05	**	2.41E+05	**	1.00E-01	?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	8.00E+01			
12:20	5:20	2.26E+05	**	2.26E+05	**	1.00E-01	?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	8.00E+01			
12:25	5:25	2.12E+05	**	2.12E+05	**	1.00E-01	?	1.00E+07	*?	1.00E+07	*?	1.00E+07	*?	8.00E+01			
12:30	5:30	1.98E+05	**	1.98E+05	**	1.00E-01	?	2.23E+04		1.00E+07	*?	1.00E+07	*?	8.00E+01			

Fort Calhoun Meteorological Data

		Wind Direction				Wind Speed		Delta T		Pasquill	Sigma	Pasquill	Ambient	Target	Precip
Real	Drill	(from)				(mph)		(°C/100m)		Class	Theta	Class	Temp (°C)	Sector	(in/hr)
Time	Time	60m(A)	60m(B)	10m(A)	10m(B)	10m	10m	10m	10m				10m		
7:00	0:00	270	270	270	270	15.0	15.0	-1.4	-1.4	D	10.0	D	79.0	E	0.0
7:05	0:05	270	270	270	270	15.0	15.0	-1.4	-1.4	D	10.0	D	79.0	E	0.0
7:10	0:10	270	270	270	270	15.0	15.0	-1.4	-1.4	D	10.0	D	79.0	E	0.0
7:15	0:15	270	270	270	270	15.0	15.0	-1.4	-1.4	D	10.0	D	79.0	E	0.0
7:20	0:20	270	270	270	270	15.0	15.0	-1.4	-1.4	D	10.0	D	79.0	E	0.0
7:25	0:25	270	270	270	270	15.0	15.0	-1.4	-1.4	D	10.0	D	79.0	E	0.0
7:30	0:30	270	270	270	270	15.0	15.0	-1.4	-1.4	D	10.0	D	79.0	E	0.0
7:35	0:35	270	270	270	270	15.0	15.0	-1.4	-1.4	D	10.0	D	79.0	E	0.0
7:40	0:40	270	270	270	270	15.0	15.0	-1.4	-1.4	D	10.0	D	79.0	E	0.0
7:45	0:45	270	270	270	270	15.0	15.0	-1.4	-1.4	D	10.0	D	79.0	E	0.0
7:50	0:50	270	270	270	270	15.0	15.0	-1.4	-1.4	D	10.0	D	79.0	E	0.0
7:55	0:55	270	270	270	270	15.0	15.0	-1.4	-1.4	D	10.0	D	79.0	E	0.0
8:00	1:00	270	270	270	270	15.0	15.0	-1.4	-1.4	D	10.0	D	79.0	E	0.0
8:05	1:05	270	270	270	270	15.0	15.0	-1.4	-1.4	D	10.0	D	79.0	E	0.0
8:10	1:10	270	270	270	270	15.0	15.0	-1.4	-1.4	D	10.0	D	79.0	E	0.0
8:15	1:15	270	270	270	270	15.0	15.0	-1.4	-1.4	D	10.0	D	79.0	E	0.0
8:20	1:20	270	270	270	270	15.0	15.0	-1.4	-1.4	D	10.0	D	79.0	E	0.0
8:25	1:25	270	270	270	270	15.0	15.0	-1.4	-1.4	D	10.0	D	79.0	E	0.0
8:30	1:30	270	270	270	270	15.0	15.0	-1.4	-1.4	D	10.0	D	79.0	E	0.0
8:35	1:35	270	270	270	270	15.0	15.0	-1.4	-1.4	D	10.0	D	79.0	E	0.0
8:40	1:40	270	270	270	270	15.0	15.0	-1.4	-1.4	D	10.0	D	79.0	E	0.0
8:45	1:45	270	270	270	270	15.0	15.0	-1.4	-1.4	D	10.0	D	79.0	E	0.0
8:50	1:50	270	270	270	270	15.0	15.0	-1.4	-1.4	D	10.0	D	79.0	E	0.0
8:55	1:55	270	270	270	270	15.0	15.0	-1.4	-1.4	D	10.0	D	79.0	E	0.0
9:00	2:00	270	270	270	270	15.0	15.0	-1.4	-1.4	D	10.0	D	79.0	E	0.0
9:05	2:05	270	270	270	270	15.0	15.0	-1.4	-1.4	D	10.0	D	79.0	E	0.0
9:10	2:10	270	270	270	270	15.0	15.0	-1.4	-1.4	D	10.0	D	79.0	E	0.0
9:15	2:15	270	270	270	270	15.0	15.0	-1.4	-1.4	D	10.0	D	79.0	E	0.0
9:20	2:20	270	270	270	270	15.0	15.0	-1.4	-1.4	D	10.0	D	79.0	E	0.0
9:25	2:25	270	270	270	270	15.0	15.0	-1.4	-1.4	D	10.0	D	79.0	E	0.0
9:30	2:30	270	270	270	270	15.0	15.0	-1.4	-1.4	D	10.0	D	79.0	E	0.0
9:35	2:35	270	270	270	270	15.0	15.0	-1.4	-1.4	D	10.0	D	79.0	E	0.0
9:40	2:40	270	270	270	270	15.0	15.0	-1.4	-1.4	D	10.0	D	79.0	E	0.0
9:45	2:45	270	270	270	270	15.0	15.0	-1.4	-1.4	D	10.0	D	79.0	E	0.0
9:50	2:50	270	270	270	270	15.0	15.0	-1.4	-1.4	D	10.0	D	79.0	E	0.0
9:55	2:55	270	270	270	270	15.0	15.0	-1.4	-1.4	D	10.0	D	79.0	E	0.0
10:00	3:00	270	270	270	270	15.0	15.0	-1.4	-1.4	D	10.0	D	79.0	E	0.0
10:05	3:05	270	270	270	270	15.0	15.0	-1.4	-1.4	D	10.0	D	79.0	E	0.0
10:10	3:10	270	270	270	270	15.0	15.0	-1.4	-1.4	D	10.0	D	79.0	E	0.0
10:15	3:15	270	270	270	270	15.0	15.0	-1.4	-1.4	D	10.0	D	79.0	E	0.0
10:20	3:20	270	270	270	270	15.0	15.0	-1.4	-1.4	D	10.0	D	79.0	E	0.0
10:25	3:25	270	270	270	270	15.0	15.0	-1.4	-1.4	D	10.0	D	79.0	E	0.0
10:30	3:30	270	270	270	270	15.0	15.0	-1.6	-1.6	C	15.0	C	79.0	E	0.0
10:35	3:35	270	270	270	270	15.0	15.0	-1.6	-1.6	C	15.0	C	79.0	E	0.0
10:40	3:40	270	270	270	270	15.0	15.0	-1.6	-1.6	C	15.0	C	79.0	E	0.0
10:45	3:45	270	270	270	270	15.0	15.0	-1.6	-1.6	C	15.0	C	79.0	E	0.0
10:50	3:50	270	270	270	270	15.0	15.0	-1.6	-1.6	C	15.0	C	79.0	E	0.0
10:55	3:55	270	270	270	270	15.0	15.0	-1.6	-1.6	C	15.0	C	79.0	E	0.0
11:00	4:00	270	270	270	270	15.0	15.0	-1.6	-1.6	C	15.0	C	79.0	E	0.0

Fort Calhoun Meteorological Data

		Wind Direction				Wind Speed		Delta T		Pasquill	Sigma	Pasquill	Ambient	Target	Precip
Real	Drill	(from)				(mph)		(°C/100m)		Class	Theta	Class	Temp (°C)	Sector	(in/hr)
Time	Time	60m(A)	60m(B)	10m(A)	10m(B)	10m	10m	10m	10m				10m		
11:05	4:05	270	270	270	270	15.0	15.0	-1.6	-1.6	C	15.0	C	79.0	E	0.0
11:10	4:10	270	270	270	270	15.0	15.0	-1.6	-1.6	C	15.0	C	79.0	E	0.0
11:15	4:15	270	270	270	270	15.0	15.0	-1.6	-1.6	C	15.0	C	79.0	E	0.0
11:20	4:20	270	270	270	270	15.0	15.0	-1.6	-1.6	C	15.0	C	79.0	E	0.0
11:25	4:25	270	270	270	270	15.0	15.0	-1.6	-1.6	C	15.0	C	79.0	E	0.0
11:30	4:30	270	270	270	270	15.0	15.0	-1.6	-1.6	C	15.0	C	79.0	E	0.0
11:35	4:35	270	270	270	270	15.0	15.0	-1.6	-1.6	C	15.0	C	79.0	E	0.0
11:40	4:40	270	270	270	270	15.0	15.0	-1.6	-1.6	C	15.0	C	79.0	E	0.0
11:45	4:45	270	270	270	270	15.0	15.0	-1.6	-1.6	C	15.0	C	79.0	E	0.0
11:50	4:50	270	270	270	270	15.0	15.0	-1.6	-1.6	C	15.0	C	79.0	E	0.0
11:55	4:55	270	270	270	270	15.0	15.0	-1.6	-1.6	C	15.0	C	79.0	E	0.0
12:00	5:00	270	270	270	270	15.0	15.0	-1.6	-1.6	C	15.0	C	79.0	E	0.0
12:05	5:05	270	270	270	270	15.0	15.0	-1.6	-1.6	C	15.0	C	79.0	E	0.0
12:10	5:10	270	270	270	270	15.0	15.0	-1.6	-1.6	C	15.0	C	79.0	E	0.0
12:15	5:15	270	270	270	270	15.0	15.0	-1.6	-1.6	C	15.0	C	79.0	E	0.0
12:20	5:20	270	270	270	270	15.0	15.0	-1.6	-1.6	C	15.0	C	79.0	E	0.0
12:25	5:25	270	270	270	270	15.0	15.0	-1.6	-1.6	C	15.0	C	79.0	E	0.0
12:30	5:30	270	270	270	270	15.0	15.0	-1.6	-1.6	C	15.0	C	79.0	E	0.0
12:35	5:35	270	270	270	270	15.0	15.0	-1.6	-1.6	C	15.0	C	79.0	E	0.0
12:40	5:40	270	270	270	270	15.0	15.0	-1.6	-1.6	C	15.0	C	79.0	E	0.0
12:45	5:45	270	270	270	270	15.0	15.0	-1.6	-1.6	C	15.0	C	79.0	E	0.0
12:50	5:50	270	270	270	270	15.0	15.0	-1.6	-1.6	C	15.0	C	79.0	E	0.0
12:55	5:55	270	270	270	270	15.0	15.0	-1.6	-1.6	C	15.0	C	79.0	E	0.0
13:00	6:00	270	270	270	270	15.0	15.0	-1.6	-1.6	C	15.0	C	79.0	E	0.0

EXERCISE MANUAL

FOR THE
JUNE 24, 2003
FORT CALHOUN STATION

EMERGENCY
PREPAREDNESS EXERCISE

VOLUME 4
MISCELLANEOUS
SCENARIO DATA

CAUTION: This manual contains scenario information that is intended to be used by Evaluators and Controllers. Data in this manual should not be provided to participants without the approval of the Exercise Senior Controller.

CAUTION: This manual contains confidential exercise Information that cannot be shared with exercise Participants prior to the 2003 Fort Calhoun Station Exercise.

EXERCISE MANUAL

FOR THE
JUNE 24, 2003
FORT CALHOUN STATION

EMERGENCY
PREPAREDNESS EXERCISE

VOLUME 5
MRC AND RUMOR
CONTROL MESSAGES

CAUTION: This manual contains confidential exercise Information that cannot be shared with exercise Participants prior to the 2003 Fort Calhoun Station Exercise.

Table of Contents

Volume 5
MRC and Rumor Control Exercise Messages

MRC Rumor Control Synopsis

Rumor Control messages are designed to test the ability of the Rumor Control Center to identify major inconsistencies in public understanding of the developing emergency and the actions being taken by the Federal, State, Local and Utility officials. The staff shall be able to identify trends in rumors (e.g. frequently expressed false or misleading information) from the public that could impede adherence to official instructions regarding Protective Actions Guidance.

Media monitoring is the ability to monitor the broadcast media and determine if any of the information provided to the public is rumors and or misleading information. A series of media messages will be phoned into the MRC Manager to test this objective.

Every fifth message 5, 10, 15 20, 25, 30, 35, 40, 45, 50, will be directed to the Call Center @ 4111 to test the capability of that facility to coordinate with the MRC.

EXERCISE

Rumor Control Message
Plume Phase
June 24, 2003

To:	Gary Williams	**Message #1**
From:	Media	
Real Time	08:30	

MESSAGE: This is _____ with KPOW TV 3. We are preparing a news bulletin and would like an update on conditions at Fort Calhoun Station. Can you put me through to Gary Williams?

COMMENTS:

EXERCISE

Rumor Control Message
Plume Phase
June 24, 2003

To:	Gary Williams	**Message #2**
From:	Citizen	
Real Time	08:35	

MESSAGE: This is KFIB. We heard that you had an event at your plant. Could some please one give us an update? We would like to go live with this.

COMMENTS:

EXERCISE

Rumor Control Message
Plume Phase
June 24, 2003

To:	Rumor Control	**Message #3**
From:	Citizen	
Real Time	08:40	IOWA # 1 (1- 515 –323-4222)

MESSAGE: Is this just a minor accident or do you think that it is going to get worse? I live in Atlantic. Will the radiation get this far?

COMMENTS:

EXERCISE

Rumor Control Message
Plume Phase
June 24, 2003

To:	Rumor Control	**Message #4**
From:	Citizen	
Real Time	08:50	

MESSAGE: I heard that an operator got injured up at the plant when they blew it up or whatever they did. My grandson is an operator there. I tried to call him, but he isn't at home and he didn't answer his beeper. Can you tell me if he is ok?

COMMENTS:

EXERCISE

Rumor Control Message
Plume Phase
June 24, 2003

To:	Rumor Control	**Message #5**
From:	Media	
Real Time	08:55	

MESSAGE: This is Jimmy Olson, senior reporter with the Lincoln Star. I would like to get some data about your plant for a news report we are preparing on the event at your facility.

COMMENTS:

EXERCISE

Rumor Control Message
Plume Phase
June 24, 2003

To:	Rumor Control	**Message #6**
From:	Citizen	
Real Time	08:55	IOWA # 2 (1- 515 –323-4222)

MESSAGE: This is the Walnut Iowa chamber of Commerce. We have a large antique and craft show this weekend. What kind of effect will an event like this have on us? Can you keep us posted if things get worse so we know if we should cancel?

COMMENTS:

EXERCISE

Rumor Control Message
Plume Phase
June 24, 2003

To:	Rumor Control	**Message #7**
From:	Media	
Real Time	09:00	

MESSAGE: Create your own message

COMMENTS:

EXERCISE

Rumor Control Message
Plume Phase
June 24, 2003

To:	Rumor Control	**Message #8**
From:	Citizen	
Real Time	09:05	IOWA # 3 (1- 515 –323-4222)

MESSAGE: I work in Omaha and have children in day care in Missouri Valley. Should I leave work to go get them? Are they in danger?

COMMENTS:

EXERCISE

Rumor Control Message
Plume Phase
June 24, 2003

To:	Rumor Control	**Message #9**
From:	Citizen	
Real Time	09:10	

MESSAGE: My name is____. My husband works at Cargill, which is just north of Fort Calhoun. Shouldn't the people there evacuate before they get irradiated?

COMMENTS:

EXERCISE

Rumor Control Message
Plume Phase
June 24, 2003

To:	Rumor Control	**Message #10**
From:	Media	
Real Time	09:10	IOWA # 3 (1- 515 –323-4222)

MESSAGE: I'm sure I just heard the sirens sound. Does this mean that things are getting worse out there?

COMMENTS:

EXERCISE

Rumor Control Message
Plume Phase
June 24, 2003

To:	Rumor Control	**Message #11**
From:	Citizen	
Real Time	09:15	IOWA # 5 (1- 515 –323-4222)

MESSAGE: I got a farm over here by California Junction. I just got all my seed delivered yesterday. What should I do to protect it?

COMMENTS:

EXERCISE

Rumor Control Message
Plume Phase
June 24, 2003

To:	Rumor Control	**Message #12**
From:	Citizen	
Real Time	09:20	

MESSAGE: Create your own message

COMMENTS:

EXERCISE

Rumor Control Message
Plume Phase
June 24, 2003

To:	Rumor Control	**Message #13**
From:	Citizen	
Real Time	09:25	IOWA # 6 (1- 515 –323-4222)

MESSAGE: I heard on the radio that radiation is getting out of that nuclear plant over in Blair. I'm up in Sioux City so I guess I'm Ok, but my son and grandkids are down in Mondamin on a farm. Are they going to be ok? How far does that radiation travel?

COMMENTS:

EXERCISE

Rumor Control Message
Plume Phase
June 24, 2003

To:	Rumor Control	**Message #14**
From:	Citizen	
Real Time	09:30	

MESSAGE: Are you still planning on changing out your steam generators in 2006?
COMMENTS:

EXERCISE

Rumor Control Message
Plume Phase
June 24, 2003

To:	Rumor Control	**Message #15**
From:	Citizen	
Real Time	09:35	IOWA # 7 (1- 515 –323-4222)

MESSAGE: My grandmother is a patient at the Missouri Valley Hospital. I tried to call there but can't get through. Is there any way you can check on her for me?

COMMENTS:

EXERCISE

Rumor Control Message
Plume Phase
June 24, 2003

To:	Rumor Control	**Message #16**
From:	Media	
Real Time	09:40	

MESSAGE: This is Joe Blah of KCAR radio. I would like to get an OPPD spokesperson on my talk show this afternoon. Some one that can explain the technical issues of what's happening to my audience.

COMMENTS:

EXERCISE

Rumor Control Message
Plume Phase
June 24, 2003

To:	Rumor Control	**Message #17**
From:	Citizen	
Real Time	09:45	IOWA #8 (1- 515 –323-4222)

MESSAGE: I heard that the train that derailed this morning was full of toxic waste and that it is blocking access to the Interstate for the residents of Pottawattamie Living in that area (Rumor Trend #1 Message #1)

COMMENTS:

EXERCISE

Rumor Control Message
Plume Phase
June 24, 2003

To:	Rumor Control	**Message #18**
From:	Citizen	
Real Time	09:50	IOWA # 9 (1- 515 –323-4222

MESSAGE Sounds like things are getting worse. Is OPPD (IOWA) going to hand those KI pills?

COMMENTS:

EXERCISE

Rumor Control Message
Plume Phase
June 24, 2003

To:	Rumor Control	**Message #19**
From:	Citizen	
Real Time	09:55	IOWA # 10 (1- 515 –323-4222)

MESSAGE: Hey I'm a member of the Green Party. If you would have voted for us instead of the democrats and republicans. We would have peace in the world now and no radiation destroying the beautiful country side around us. But it is still not to late if you vote for us at the next election we can begin to turn things around,

COMMENTS:

EXERCISE

Rumor Control Message
Plume Phase
June 24, 2003

To:	Rumor Control	**Message #20**
From:	Citizen	
Real Time	10:00	

MESSAGE: Create your own message

COMMENTS:

EXERCISE

Rumor Control Message
Plume Phase
June 24, 2003

To:	Rumor Control	**Message #21**
From:	Citizen	
Real Time	10:05	

MESSAGE: My lights just went out. Is it because you broke the power plant? (If asked you live in Elkhorn)

COMMENTS:

EXERCISE

Rumor Control Message
Plume Phase
June 24, 2003

To:	Rumor Control	**Message #22**
From:	Citizen	
Real Time	10:10	

MESSAGE: Are we going to have to evacuate? I'm afraid to drive with the roads all torn up the way they are.

COMMENTS:

EXERCISE

Rumor Control Message
Plume Phase
June 24, 2003

To:	Rumor Control	**Message #23**
From:	Citizen	
Real Time	10:10	IOWA # 11 (1- 515 –323-4222)

MESSAGE: What will happen if the toxic waste from that train and the radiation from the plant mix? (Rumor Trend #1 Message #2)

COMMENTS:

EXERCISE

Rumor Control Message
Plume Phase
June 24, 2003

To:	Rumor Control	**Message #24**
From:	Citizen	
Real Time	10:15	IOWA # 12 (1- 515 –323-4222)

Message: Who's going to pay for all this mess? The state's got a budget deficit already. The plant's in Nebraska. Surely, Iowa shouldn't have to pay anything!

COMMENTS:

EXERCISE

Rumor Control Message
Plume Phase
June 24, 2003

To:	Rumor Control	**Message #25**
From:	Citizen	
Real Time	10:20	IOWA #1 6 (1- 515 –323-4222)

MESSAGE If we evacuate what should we do with our pets? Will the radiation have the same effect on them that it does on people?

COMMENTS:

EXERCISE

Rumor Control Message
Plume Phase
June 24, 2003

To:	Rumor Control	**Message #26**
From:	Media	
Real Time	10:25	IOWA # 17 (1- 515 –323-4222)

MESSAGE: What will happen to the crops in the fields? Even if they aren't irradiated who's gonna want to buy crops from this area?

COMMENTS:

EXERCISE

Rumor Control Message
Plume Phase
June 24, 2003

To:	Rumor Control	**Message #27**
From:	Media	
Real Time	10:30	

MESSAGE: I am with the Blair Pilot. There has been a lot of discussion in the press about the effectiveness of nuclear power plant's emergency plans. Do you think that Fort Calhoun's plan is working effectively today and that it will protect the public? (Insist on talking to an OPPD or state official)

COMMENTS:

EXERCISE

Rumor Control Message
Plume Phase
June 24, 2003

To:	Rumor Control	**Message #28**
From:	Citizen	
Real Time	10:35	IOWA # 18 (1- 515 –323-4222)

MESSAGE: Do you think that only the people in that little area should evacuate? At Chernobyl half of Europe was affected. Why do we only worry about so little of an area? Also the NRC had those radiation pills they were handing out. How come we don't get them? (If asked you live in Clarinda Iowa)

COMMENTS:

EXERCISE

Rumor Control Message
Plume Phase
June 24, 2003

To:	Rumor Control	**Message #29**
From:	Political Group	
Real Time	10:40	

MESSAGE: How do we know what those guys in the news conferences are saying is true? What are their credentials? They just get up there and start talking.

COMMENTS:

EXERCISE

Rumor Control Message
Plume Phase
June 24, 2003

To:	Rumor Control	**Message #30**
From:	Citizen	
Real Time	10:45	IOWA # 19 (1- 515 –323-4222)

MESSAGE: My husband went to Kansas City today from Sioux City Iowa. He took Interstate 29 which goes right by that place. I haven't heard from him. Do you think he's ok? He left at 9:00 A.M. so he should be around that nuclear plant right now!

COMMENTS:

EXERCISE

Rumor Control Message
Plume Phase
June 24, 2003

To:	Rumor Control	**Message #31**
From:	Citizen	
Real Time	10:50	

MESSAGE: This didn't have anything to do with terrorism, did it? You hear so much about these places and terrorist and this happens, it just makes you wonder.

COMMENTS:

EXERCISE

Rumor Control Message
Plume Phase
June 24, 2003

To:	Rumor Control	**Message #32**
From:	Citizen	
Real Time	10:55	

MESSAGE: With all the road construction going on in Blair, should we still evacuate that way or go another way?

COMMENTS:

EXERCISE

Rumor Control Message
Plume Phase
June 24, 2003

To:	Rumor Control	**Message #33**
From:	Citizen	
Real Time	11:20	IOWA # 20 (1- 515 –323-4222)

MESSAGE: My cousin who knows a guy on the Logan Fire Department said that the train that derailed was filled with chemicals and HAZMAT teams can't get to them, because of all the radiation won't let them. (Rumor Trend #1 Message#3)

COMMENTS:

EXERCISE

Rumor Control Message
Plume Phase
June 24, 2003

To:	Rumor Control	**Message #34**
From:	Political Group	
Real Time	11:25	IOWA # 20 (1- 515 –323-4222)

MESSAGE: This is BANANA (Build Absolutely Nothing Absolutely Nowhere at All), what does OPPD think of nuclear power now? Will the states still take the stand of not supplying K.I. pills to the public?

COMMENTS:

EXERCISE

Rumor Control Message
Plume Phase
June 24, 2003

To:	Rumor Control	**Message #35**
From:	Citizen	
Real Time	11:30	

MESSAGE: Create your own message

COMMENTS:

EXERCISE

Rumor Control Message
Plume Phase
June 24, 2003

To:	Rumor Control	**Message #36**
From:	Citizen	
Real Time	11:35	IOWA # 22 (1- 515 –323-4222)

MESSAGE: I live in Clarinda and I need to get to Fremont NE To see my gravely ill sister. How can I get there? I'm 88 years old and she's 92. The only way I know is to take The interstate to Missouri Valley and then Highway 30 to Fremont. I know I will get lost if I go any other way.

COMMENTS:

EXERCISE

Rumor Control Message
Plume Phase
June 24, 2003

To:	Rumor Control	**Message #37**
From:	Citizen	
Real Time	11:40	IOWA # 23 (1- 515 –323-4222)

MESSAGE: When I get to Denison is it okay if I stay in a motel instead of the high school?

COMMENTS:

EXERCISE

Rumor Control Message
Plume Phase
June 24, 2003

To:	Rumor Control	**Message #38**
From:	Citizen	
Real Time	11:45	

MESSAGE: Create your own message

COMMENTS:

EXERCISE

Rumor Control Message
Plume Phase
June 24, 2003

To:	Rumor Control	**Message #39**
From:	Citizen	
Real Time	11:50	

MESSAGE: I'm confused about why I have to go to Bellevue. Why can't I just go my mother's house in Omaha?

COMMENTS:

EXERCISE

Rumor Control Message
Plume Phase
June 24, 2003

To:	Rumor Control	**Message #40**
From:	Citizen	
Real Time	11:55	

MESSAGE: Can I bring my dog with me, if I plan to go to my sister's house after I get checked for radiation.

COMMENTS:

EXERCISE

Rumor Control Message
Plume Phase
June 24, 2003

To:	Rumor Control	**Message #41**
From:	Citizen	
Real Time	12:00	IOWA # 24 (1- 515 –323-4222)

MESSAGE: They said in the book that I should go to Denison if I have to evacuate. I really don't know anybody there. Can I go to Harlan instead? My mother lives there and I can stay with her.

COMMENTS:

EXERCISE

Rumor Control Message
Recovery/Re-Entry/Relocation Phase
June 24, 2003

To:	Rumor Control	**Message #42**
From:	Citizen	
Real Time	13:00	IOWA # 1 (1- 515 –323-4222)

MESSAGE: What would happen if people ate food that has been exposed to radiation?

COMMENTS:

EXERCISE

Rumor Control Message
Recovery/Re-Entry/Relocation Phase
June 27, 2003

To:	Rumor Control	**Message #43**
From:	Citizen	
Real Time	13:05	

MESSAGE: When am I going to be able to get back in to take care of my cattle? I know they need feed and water. (You have a feed lot three miles north of Missouri Valley just of Highway 183, west side of the road).

COMMENTS:

EXERCISE

Rumor Control Message
Recovery/Re-Entry/Relocation Phase
June 24, 2003

To:	Rumor Control	**Message #44**
From:	Citizen	
Real Time	13:10	

MESSAGE: Is this the complaint place? When can I get back in my place? They said three days. Well three days is up! (You live near DeSoto Wildlife Refuge)

COMMENTS:

EXERCISE

Rumor Control Message
Recovery/Re-Entry/Relocation Phase
June 24, 2003

To:	Rumor Control	**Message #45**
From:	Citizen	
Real Time	13:15	IOWA # 2 (1- 515 –323-4222)

MESSAGE: On television they have been talking about the long term affects of radiation. They said at Chernobyl thousands of people died and that many more are still getting cancer. They said that the evacuated areas around Fort Calhoun would not be livable for thousands of years, is this all true? (Rumor Trend 1 Message 1)

COMMENTS:

EXERCISE

Rumor Control Message
Recovery/Re-Entry/Relocation Phase
June 24, 2003

To:	Rumor Control	**Message #46**
From:	Citizen	
Real Time	13:20	IOWA # 3 (1- 515 –323-4222)

MESSAGE: Is that guy on TV telling the truth about the whole area been a wasteland forever? (Rumor Trend 1 Message 2).

COMMENTS:

EXERCISE

Rumor Control Message
Recovery/Re-Entry/Relocation Phase
June 24, 2003

To:	Rumor Control	**Message #47**
From:	Citizen	
Real Time	13:25	

MESSAGE: What would happen to the radiation on the ground if it rained real hard? Would it get into the water? Would that be bad or good?

COMMENTS:

EXERCISE

Rumor Control Message
Recovery/Re-Entry/Relocation Phase
June 24, 2003

To:	Rumor Control	**Message #48**
From:	Citizen	
Real Time	13:30	IOWA # 4 (1- 515 –323-4222)

MESSAGE : What kind of effects will the radiation have on wildlife? Like the stuff you released passed right over the wildlife refuge. Won't all the geese be radioactive; and when they migrate won't they spread it all over North America? Will they have mutant offspring?

COMMENTS:

EXERCISE

Rumor Control Message
Recovery/Re-Entry/Relocation Phase
June 24, 2003

To:	Rumor Control	**Message #49**
From:	Citizen	
Real Time	13:35	IOWA # 5 (1- 515 –323-4222)

MESSAGE: I thought you said we could go home in three days. This guy on TV just said that the area will be a wasteland for thousands of years. He was showing pictures of places in Russia that happened in the 50's. What's going on? (Rumor Trend 1 Message #3)

COMMENTS:

EXERCISE

Rumor Control Message
Recovery/Re-Entry/Relocation Phase
June 24, 2003

To:	Rumor Control	**Message #50**
From:	Citizen	
Real Time	13:40	

MESSAGE: What will happen to all the corn at the Cargill plant in Blair? Is it all going to be radioactive? If they planted it would it grow really large and mutate?

COMMENTS:

EXERCISE

Rumor Control Message
Recovery/Re-Entry/Relocation Phase
June 24, 2003

To:	Rumor Control	**Message #51**
From:	Citizen	
Real Time	13:45	IOWA # 6 (1- 515 –323-4222)

MESSAGE: What kind of economic impact will this event have on this area? Will that plant ever operate again?

COMMENTS:

EXERCISE

Rumor Control Message
Recovery/Re-Entry/Relocation Phase
June 24, 2003

To:	Rumor Control	**Message #52**
From:	Citizen	
Real Time	13:50	IOWA # 7 (1- 515 –323-4222)

MESSAGE: This is CRST in Cedar Rapids. Can you give us any updates on when the roads will be reopened in the area of the plant?

COMMENTS:

EXERCISE

Rumor Control Message
Recovery/Re-Entry/Relocation Phase
June 24, 2003

To:	Rumor Control	**Message #53**
From:	Citizen	
Real Time	13:55	IOWA # 8 (1- 515 –323-4222)

MESSAGE: The area around that plant in Russia is still not habitable. Will the same thing happen to Blair? (Rumor Trend #1 Message #4)

COMMENTS:

EXERCISE

Rumor Control Message
Recovery/Re-Entry/Relocation Phase
June 24, 2003

To:	Rumor Control	**Message #54**
From:	Citizen	
Real Time	14:00	

MESSAGE: Boy you guys did it up good this time! Bet you're tired of answering these phones huh!

COMMENTS:

EXERCISE

Rumor Control Message
Recovery/Re-Entry/Relocation Phase
June 24, 2003

To:	Rumor Control	**Message #55**
From:	Citizen	
Real Time	14:05	

MESSAGE: Create your own message

COMMENTS:

EXERCISE

Rumor Control Message
Recovery/Re-Entry/Relocation Phase
June 24, 2003

To:	Rumor Control	**Message #56**
From:	Citizen	
Real Time	14:10	

MESSAGE: How long is it going to take to clean up all the mess from this? Are you hiring? I really need a job.

COMMENTS:

EXERCISE

Rumor Control Message
Recovery/Re-Entry/Relocation Phase
June 24, 2003

To:	Rumor Control	**Message #57**
From:	Citizen	
Real Time	14:15	IOWA # 9 (1- 515 –323-4222)

MESSAGE: It was hard getting this number. We are on vacation in Mexico. But we live in Missouri Valley. We are supposed to come home today. We just want to know if we can go home or should we spend another week here at OPPD's expense?

COMMENTS:

EXERCISE

Rumor Control Message
Recovery/Re-Entry/Relocation Phase
June 24, 2003

To:	Rumor Control	**Message #58**
From:	Citizen	
Real Time	14:20	

MESSAGE: How long before they let us go back to Fort Calhoun? What is going to be left when we get there?

COMMENTS:

EXERCISE

Rumor Control Message
Recovery/Re-Entry/Relocation Phase
June 24, 2003

To:	Rumor Control	**Message #59**
From:	Citizen	
Real Time	14:25	IOWA # 10 (1- 515 –323-4222)

MESSAGE: I saw some dead fish in the river down here by the AmeriStar Casino. Do you think the radiation killed them? There was about ten of them!

COMMENTS:

EXERCISE

Rumor Control Message
Recovery/Re-Entry/Relocation Phase
June 24, 2003

To:	Rumor Control	**Message #60**
From:	Citizen	
Real Time	14:30	

MESSAGE: Hey that Easter egg map they showed on TV looks great. Glad I don't live in the pink area though.

COMMENTS:

EXERCISE

Rumor Control Message
Recovery/Re-Entry/Relocation Phase
June 24, 2003

To:	Rumor Control	**Message #61**
From:	Citizen	
Real Time	14:35	

MESSAGE: How come some of the areas they showed on TV are hotter farther out and not so hot close in?

COMMENTS:

EXERCISE

Rumor Control Message
Recovery/Re-Entry/Relocation Phase
June 24, 2003

To:	Rumor Control	**Message #62**
From:	Citizen	
Real Time	14:40	IOWA # 11 (1- 515 –323-4222)

MESSAGE: Is the Governor or the President going to tour the area to show us how safe it is?

COMMENTS:

EXERCISE

Rumor Control Message
Recovery/Re-Entry/Relocation Phase
June 24, 2003

To:	Rumor Control	**Message #63**
From:	Citizen	
Real Time	14:45	IOWA # 12 (1- 515 –323-4222)

MESSAGE: When is all this going to be over? I just want to go home!

COMMENTS:

EXERCISE

Rumor Control Message
Recovery/Re-Entry/Relocation Phase
June 24, 2003

To:	Rumor Control	**Message #64**
From:	Citizen	
Real Time	14:50	

MESSAGE: Hey I've been living in this shelter for three days now, when can I go home? (If asked you live west of Fort Calhoun you are in a shelter in Bellevue.

COMMENTS:

EXERCISE

Rumor Control Message
Recovery/Re-Entry/Relocation Phase
June 24, 2003

To:	Rumor Control	**Message #65**
From:	Citizen	
Real Time	14:55	

MESSAGE: The guy on the FOX News Channel said that we wouldn't be able to eat the fish in the lakes around hear for up to 50 years. He said that the State Health Departments were out checking the lakes and if the radiation got in the water the fish and even the wildlife that drank the water might not be good for up to 50 years. Is that true?

COMMENTS:

EXERCISE

Rumor Control Message
Recovery/Re-Entry/Relocation Phase
June 24, 2003

To:	Rumor Control	**Message #66**
From:	Citizen	
Real Time	15:00	

MESSAGE: Hello, I live in Blair, but I have been in Seattle on a business trip for the last week. I am leaving to come home this morning. My question is, "can I go home?"

COMMENTS:

EXERCISE

Rumor Control Message
Inject Message
June 24, 2003

To:	MRC	**Message # 67X**
From:	Universal Press Services	
Real Time		

MESSAGE: After each press conference, report back to the MRC, those events that were covered in the press conference.

COMMENTS:

Repeat as necessary during Plume and Recovery/Re-Entry/Relocation Phase

EXERCISE

Inject Message
Recovery/Re-Entry/Relocation Phase
June 24, 2003

To:	MRC	**Message # 68**
From:	Universal Press Services	
Real Time	14:30	

MESSAGE: Subject matter expert is reporting that large areas around the plant may be inhabitable for many years. He is citing instances in Russia such as Chernobyl.

COMMENTS:

EXERCISE MANUAL

FOR THE
JUNE 24, 2003
FORT CALHOUN STATION

EMERGENCY
PREPAREDNESS EXERCISE

VOLUME 5
MRC AND RUMOR
CONTROL MESSAGES

CAUTION: This manual contains confidential exercise Information that cannot be shared with exercise Participants prior to the 2003 Fort Calhoun Station Exercise.

PHASE TWO
RELOCATION, REENTRY, RECOVERY MANUAL

FOR THE
JUNE 24, 2003
FORT CALHOUN STATION

EMERGENCY
PREPAREDNESS EXERCISE

VOLUME 6

CAUTION: **This manual contains Confidential Dress Rehearsal Information that cannot be shared with Dress Rehearsal Participants prior to the 2003 Fort Calhoun Station Dress Rehearsal.**

Table of Contents

Introduction

This manual contains the time line for Phase Two of the Fort Calhoun Station Exercise. Phase Two is intended to meet the FEMA Relocation, Reentry and Recovery Objectives 2.e.1 and 3.f.1. Phase Two will involve the MRC, State and County EOCs. The EOF will not participate. Phase Two will commence about one-hour after the Plume Phase has ended.

This manual contains a message time line summary and controller messages. Attached separately will be a detailed map depicting areas where PAGs have been exceeded. The map and the enclosed messages will be used by participants to demonstrate Relocation, Reentry and Recovery decision making and implementation. A map will be provided to each State and County EOC.

Controllers will be assigned to each State and County EOC.

Objectives

Objectives for Phase Two are based on the following FEMA Sub-elements and Criterion:

1 Sub-element 2.e. – Radiological Assessment and Decision-Making Concerning Relocation, Re-entry, and Return

Criterion 2.e.1: Timely relocation, re-entry, and return decisions are made and coordinated as appropriate, based on assessments of the radiological conditions and criteria in the ORO's plan and/or procedures. (NUREG-0654, A.1.b., I.10., M)

2. Sub-element 3.f. – Implementation of Relocation, Re-entry, and Return Decisions

Criterion 3.f.1: Decisions regarding controlled re-entry of emergency workers and relocation and return of the public are coordinated with appropriate organizations and implemented. (NUREG-0654, M.1., 3.)

Message #: 1

Elapse Time: 0000

From: EOC

Real Time: 1300

To: EOCs

Controller Notes:

All three counties must review / establish traffic control points as appropriate. Each County EOC should give the facility a detailed briefing on location of their traffic control points.

Drill Message:

The Relocation, Re-entry and Recovery Phase will begin with all necessary participants present in the State and County EOCs. Some participants may need to travel from the EOF to their EOCs for this tabletop exercise. A detailed briefing will begin Phase Two in each EOC and will include the following:

It is June 27, 2003, 3 days after the Plume Phase and current status is:

- Fort Calhoun Station is shutdown in a stable condition on long term cooling. Both 161 KV and 345 KV AC power is available and supplying safeguards systems. One emergency diesel generator is still out of service.

- The train that was derailed near the intersection of State Hwy 362 and US Hwy 183 is still derailed. The train was left derailed during the plume phase. The train crew has been evacuated. There are no hazardous materials on the train.

- The crane boom has been pushed aside and is no longer blocking East and West traffic on US Hwy 30.

- The State of Nebraska and Washington County have only evacuated Sub-Area 1.

- The State of Iowa and Harrison County have evacuated only Sub-Areas 10, and 11.

- The State of Iowa and Pottawattamie County have evacuated Sub-Area 14.

- Boyer Chute, DeSoto Bend Wildlife Refuge and Wilson Island were closed during the Plume Phase.

Message #: 2

Elapse Time: 0000

From: EOC

Real Time: 1300

To: EOCs

Controller Notes:

Brief the EOCs on how Phase Two will be conducted.

Drill Message:

The EOC controller will brief the facility on how Phase Two of the Exercise will be conducted:

- A map will be provided representing soil samples and an analysis that was done to determine if any 1 year, 2, year, or 50 Year PAGs are exceeded (Note: the sampling and analysis have already been completed). The decision makers and the implementers have in their hands the data needed to make Relocation, Re-entry and Recovery decisions and implement them.

- Once the map is provided and the EOCs have had time to evaluate Traffic Control Points, Relocation, etc. Controller messages will be given to drive scenario objectives.

Message #: 3

Elapse Time: 0000

From: EOC

Real Time: 1300

To: EOCs

Controller Notes:

Drill Message:

Today's Weather Forecast: Clear, highs in the lower 90s. Winds from the southwest at 5-10 mph. Lows tonight in low 70s.

Message #: 4

Elapse Time: 0000

From: EOC

Real Time: 1300

To: EOCs

Controller Notes:

Drill Message:

Provide all EOCs with the fly over map (dose rates) and with the soil sample analysis depicting where PAGs are exceeded. Allow about 10 minutes for the EOCs to review the data.

Message #: 5

Elapse Time: 0040

From: EOC

Real Time: 1340

To: EOCs

Controller Notes:

Drill Message:

Commencing Phase Two activities.

Message #: 6

Elapse Time: 0045

From: Harrison County EOC

Real Time: 1345

To: Harrison County EOC

Controller Notes:

Recovery

Drill Message:

A couple who just arrived at the airport in Omaha want to know if it is OK to go to their home near Fremont Avenue and 305th Street (California Junction) in Iowa.

Message #: 7

Elapse Time: 0045

From: Pottawattamie County EOC

Real Time: 1345

To: Pottawattamie County EOC

Controller Notes:

Re-Entry

Drill Message:

UP Railroad requests permission to send track crews into Sub-Area 14 to recover the train that derailed on June 24, 2003. They intend to bring in equipment and a crew of 20 men and expect to take about 2 days. The train's designation is Fremont, NE via the UP Railroad. The grain cars are to be dropped off in Blair, NE at Cargill.

Message #: 8

Elapse Time: 0045

From: Washington County EOC

Real Time: 1345

To: Washington County EOC

Controller Notes:

Drill Message:

During the relocation of the town of Fort Calhoun, an emergency worker reports a grass fire burning out of control in the area of the intersection County Road P39 and P32.

Message #: 9

Elapse Time: 0100

From: Harrison County EOC

Real Time: 1400

To: Harrison County EOC

Controller Notes:

Recovery

Drill Message:

A tour bus company from Kansas City wants verify that they can send a bus to Desoto National Wildlife Refuge today. The tour group will be staying overnight at a motel at I-29 and Hwy 30 (NW of intersection) near Missouri Valley, Iowa.

Message #: 10

Elapse Time: 0100

From: Pottawattamie County EOC

Real Time: 1400

To: Pottawattamie County EOC

Controller Notes:

Recovery

Drill Message:

A couple who lives in Omaha wants to spend the next few days at their trailer near Treasure Lane and 145th Street in Pottawattamie County.

Message #: 11

Elapse Time: 0100

From: Washington County EOC

Real Time: 1400

To: Washington County EOC

Controller Notes:

Re-Entry

Drill Message:

A lady who is staying with friends in Blair wants to go to the Fort Calhoun Post Office to pick up her mail.

Message #: 12

Elapse Time: 0130

From: Washington County EOC

Real Time: 1430

To: Washington County EOC

Controller Notes:

Recovery

Drill Message:

A father and his son want to know if it is OK to go fishing at Boyer Chute Recreation Area in Washington County.

Message #: 13

Elapse Time: 0130

From: Harrison County EOC

Real Time: 1430

To: Harrison County EOC

Controller Notes:

Re-Entry

Drill Message:

A farmer whose farm is just north of the MO Valley city limits near the intersection of 295th Street and Loomis Ave. wants permission to go and feed his cattle.

Message #: 14

Elapse Time: 0130

From: Pottawattamie County EOC

Real Time: 1430

To: Pottawattamie County EOC

Controller Notes:

Re-Entry

Drill Message:

A citizen wants permission to feed his llamas which are in pens next to the Goosehaven Trailer Park near the intersection of Sandy Loop and Goosehaven Loop.

Message #: 15

Elapse Time: 0145

From: Washington County EOC

Real Time: 1445

To: Washington County EOC

Controller Notes:

Re-Entry

Drill Message:

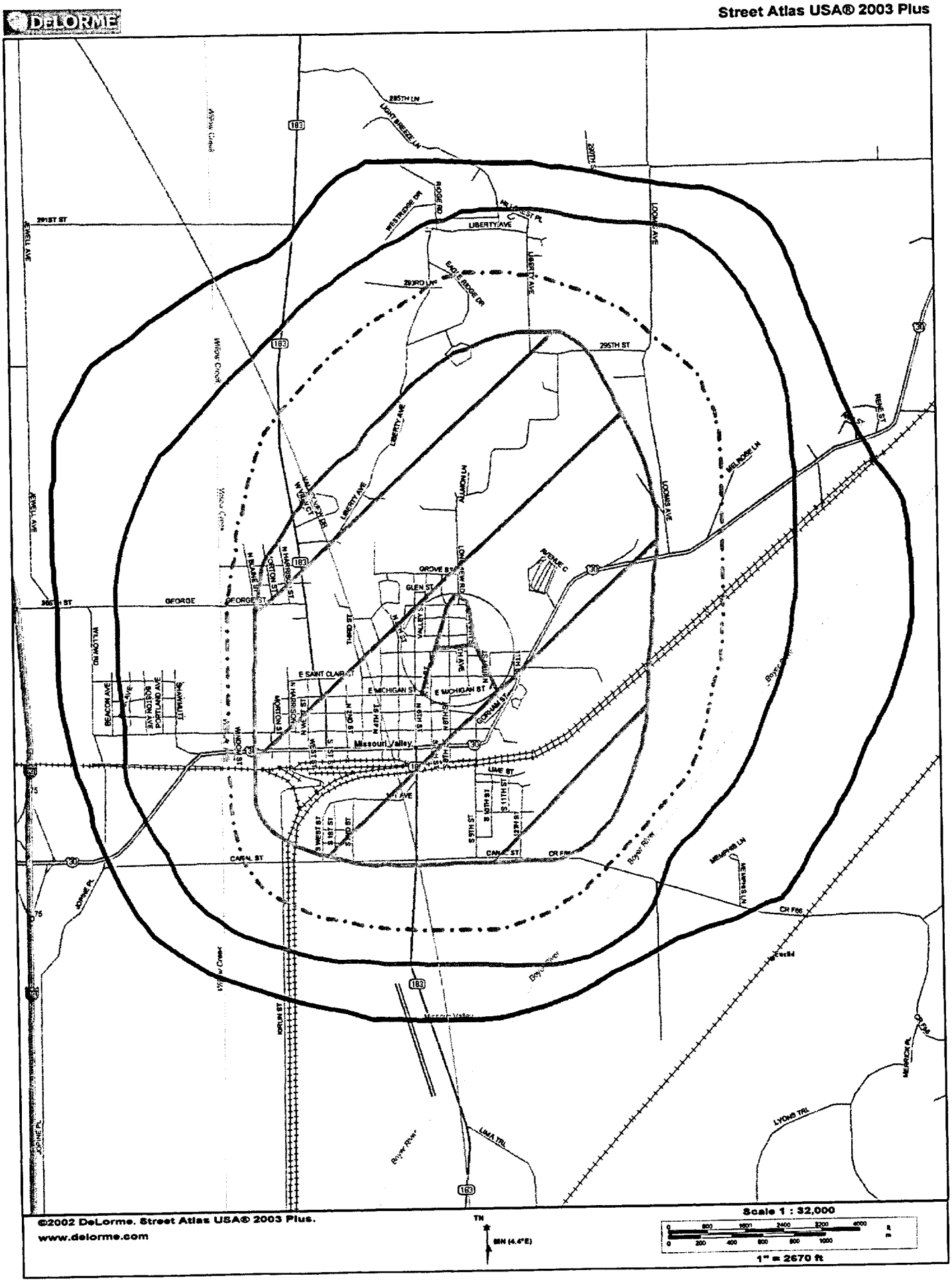
A citizen called to get permission to feed his chickens in Fort Calhoun. The coop is located near the intersection of 15th and Court Street.

MSG	Elapsed Time	Real Time	Controller	To	Controller Notes	Drill Message
1	0000	1300	EOC	EOCs	All three counties must review / establish traffic control points as appropriate. Each County EOC should give the facility a detailed briefing on location of their traffic control points.	The Relocation, Re-entry and Recovery Phase will begin with all necessary participants present in the State and County EOCs. Some participants may need to travel from the EOF to their EOCs for this tabletop exercise. A detailed briefing will begin Phase Two in each EOC and will include the following: It is June 27, 2003, 3 days after the Plume Phase and current status is: ■ Fort Calhoun Station is shutdown in a stable condition on long term cooling. Both 161 KV and 345 KV AC power is available and supplying safeguards systems. One emergency diesel generator is still out of service. ■ The train that was derailed near the intersection of State Hwy 362 and US Hwy 183 is still derailed. The train was left derailed during the plume phase. The train crew has been evacuated. There are no hazardous materials on the train. ■ The crane boom has been pushed aside and is no longer blocking East and West traffic on US Hwy 30. ■ The State of Nebraska and Washington County have only evacuated Sub-Area 1. ■ The State of Iowa and Harrison County have evacuated only Sub-Areas 10, and 11. ■ The State of Iowa and Pottawattamie County have evacuated Sub-Area 14. ■ Boyer Chute, DeSoto Bend Wildlife Refuge and Wilson Island were closed during the Plume Phase.

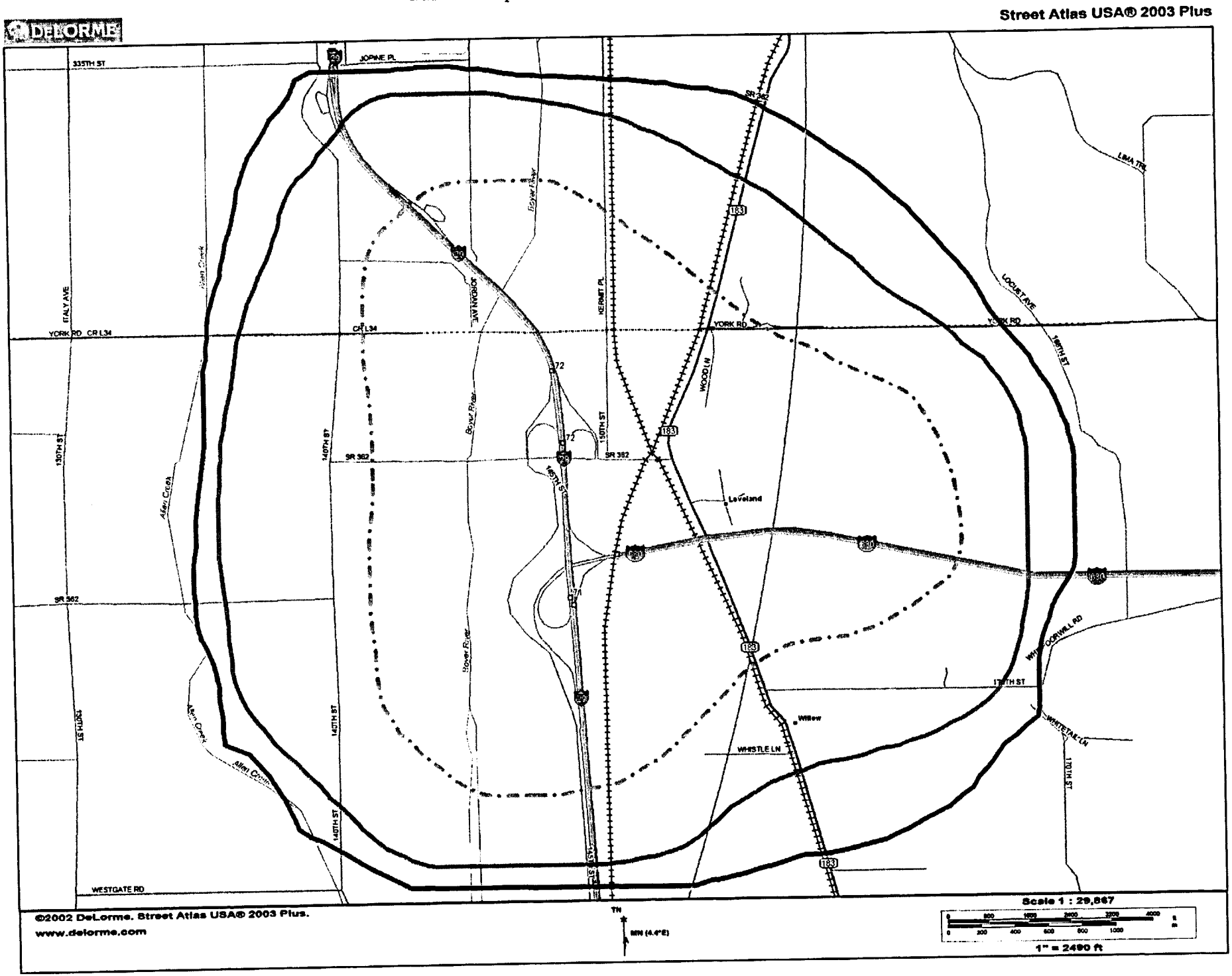
MSG	Elapsed Time	Real Time	Controller	To	Controller Notes	Drill Message
2			EOC	EOCs	Brief the EOCs on how Phase Two will be conducted.	EOC controller will brief the facility on how Phase Two of the Exercise will be conducted: ■ A map will be provided representing soil samples and an analysis that was done to determine if any 1 year, 2, year, or 50 Year PAGs are exceeded (Note: the sampling and analysis have already been completed). The decision makers and the implementers have in their hands the data needed to make Relocation, Re-entry and Recovery decisions and implement them. ■ Once the map is provided and the EOCs have had time to evaluate Traffic Control Points, Relocation, etc. Controller messages will be given to drive scenario objectives.
3	0000	1300	EOC	EOCs		Today's Weather Forecast: Clear, highs in the lower 90s. Winds from the southwest at 5-10 mph. Lows tonight in low 70s.
4	0000	1300	EOC	EOCs		Provide all EOCs with the fly over map (dose rates) and with the soil sample analysis depicting where PAGs are exceeded. Allow about 10 minutes for the EOCs to review the data.
5	0040	1340	EOC	EOCs		Commencing Phase Two activities.
6	0045	1345	Harrison County EOC	Harrison County EOC	Recovery	A couple who just arrived at the airport in Omaha want to know if it is OK to go to their home near Fremont Avenue and 305th Street (California Junction) in Iowa.
7	0045	1345	Pottawattamie County EOC	Pottawattamie County EOC	Re-Entry	UP Railroad requests permission to send track crews into Sub-Area 14 to recover the train that derailed on June 24, 2003. They intend to bring in equipment and a crew of 20 men and expect to take about 2 days. The train's designation is Fremont, NE via the UP railroad. The grain cars are to be dropped off in Blair, NE at Cargill.
8	0045	1345	Washington County EOC	Washington County EOC		During the relocation of the town of Fort Calhoun, an emergency worker reports a grass fire burning out of control in the area of the intersection County Road P39 and P32.

MSG	Elapsed Time	Real Time	Controller	To	Controller Notes	Drill Message
9	0100	1400	Harrison County EOC	Harrison County EOC	Recovery	A tour bus company from Kansas City wants verify that they can send a bus to Desoto National Wildlife Refuge today. The tour group will be staying overnight at a motel at I-29 and Hwy 30 (NW of intersection) near Missouri Valley, Iowa.
10	0100	1400	Pottawattamie County EOC	Pottawattamie County EOC	Recovery	A couple who lives in Omaha wants to spend the next few days at their trailer near Treasure Lane and 145th Street in Pottawattamie County.
11	0100	1400	Washington County EOC	Washington County EOC	Re-Entry	A lady who is staying with friends in Blair wants to go to the Fort Calhoun Post Office to pick up her mail.
12	0130	1430	Washington County EOC	Washington County EOC	Recovery	A father and his son want to know if it is OK to go fishing at Boyer Chute Recreation Area in Washington County.
13	0130	1430	Harrison County EOC	Harrison County EOC	Re-Entry	A farmer whose farm is just north of the MO Valley city limits near the intersection of 295th Street and Loomis Ave. wants permission to go and feed his cattle.
14	0130	1430	Pottawattamie County EOC	Pottawattamie County EOC	Re-Entry	A citizen wants permission to feed his llamas which are in pens next to the Goosehaven Trailer Park near the intersection of Sandy Loop and Goosehaven Loop.
15	0145	1445	Washington County EOC	Washington County EOC	Re-Entry	A citizen called to get permission to feed his chickens in Fort Calhoun. The coop is located near the intersection of 15th and Court Street.

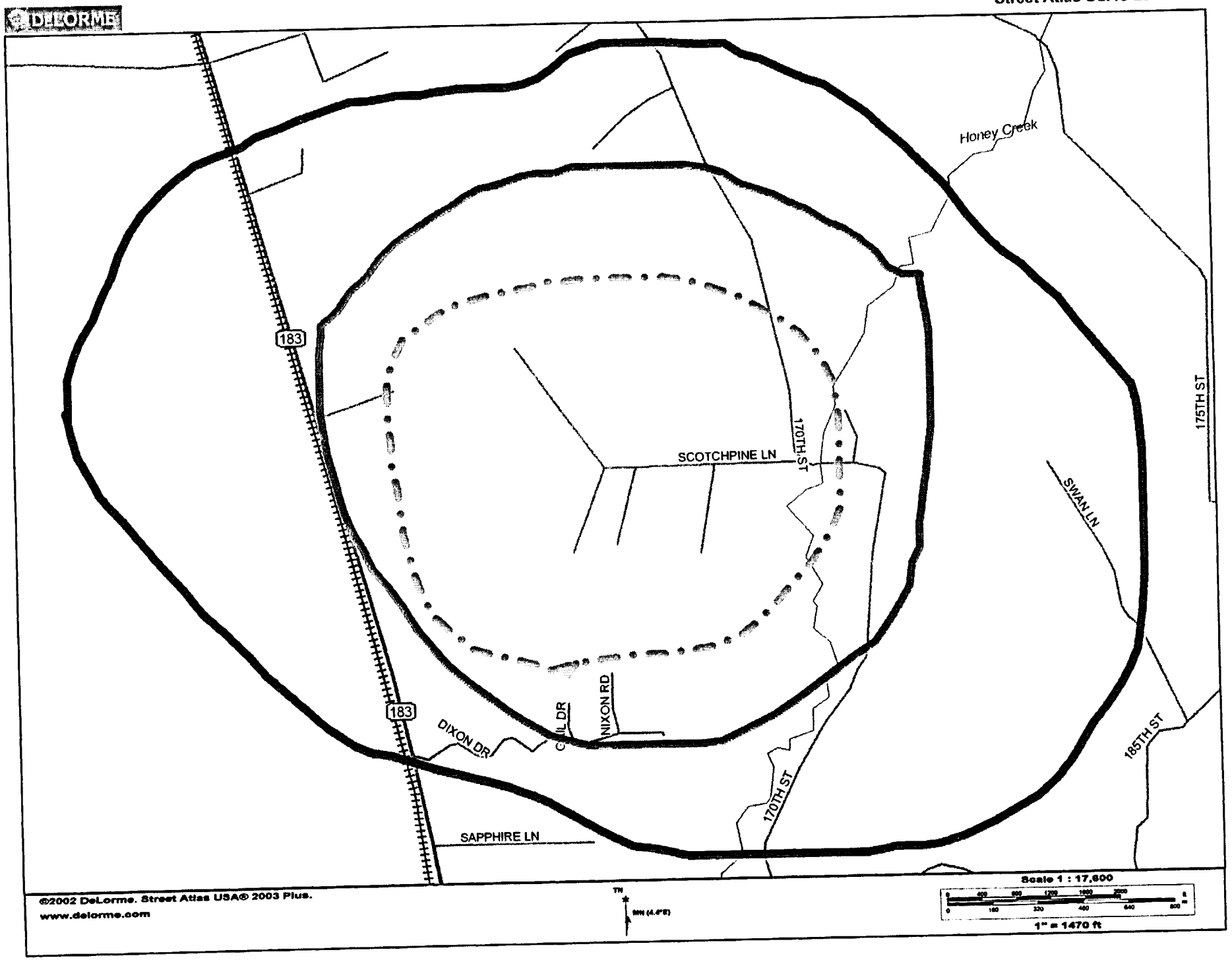
Bubble Map of Missouri Valley, Iowa Area



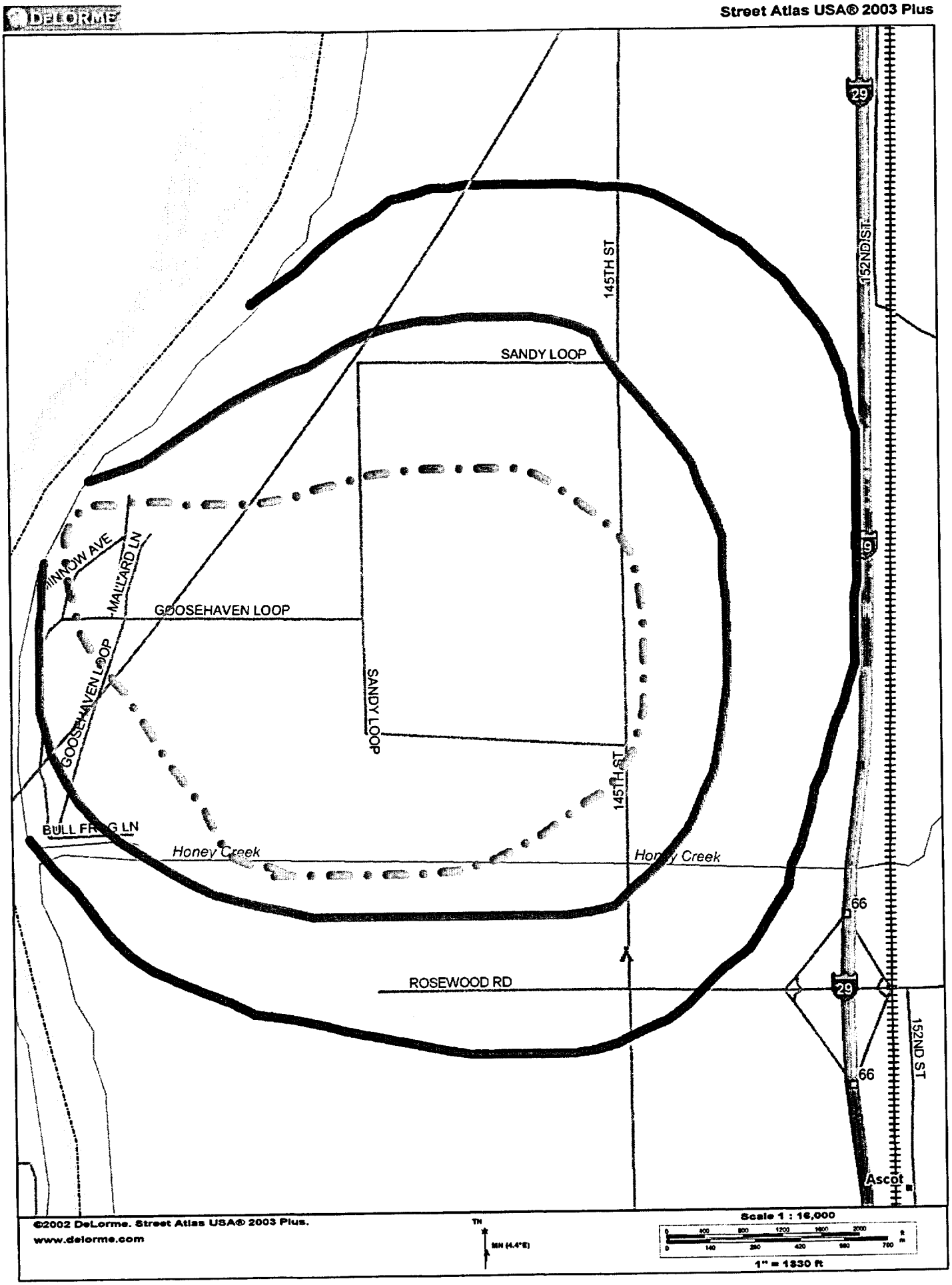
Bubble Map of Loveland, Iowa Area



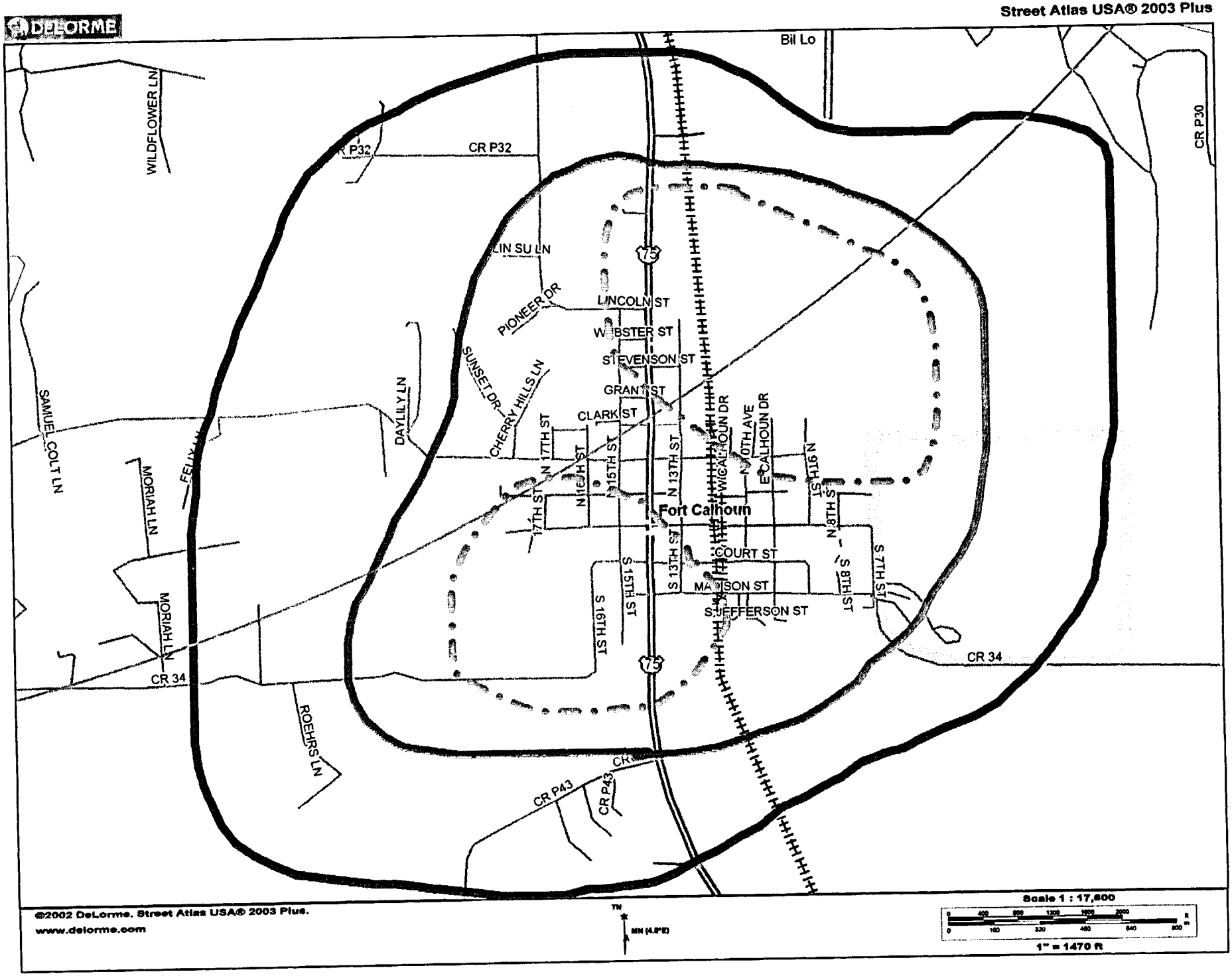
Bubble Map of Scotchpine Ln Area in Pottawattamie County



Bubble Map of Goosehaven Area in Pottawattamie County



Bubble Map of Fort Calhoun, Nebraska Area



Key to Map Areas

RED LINE - AREA 'A'

DASHED RED LINE - AREA 'B'

BLUE LINE - AREA 'C'

BLACK LINE - AREA 'D'

BLACK DASHED LINE - AREA 'E'

1 year, 2 year, and /or 50 year DILs/PAGs are exceeded within RED lined/RED dashed lined areas (Areas 'A' & 'B'). The letter of area, e.g. 'A' corresponds to the letter heading of the data columns in the Table of Sample Analysis Results that follows.

The attached table is an example of an soil sample analysis and dose rate in each area identified on large detailed map of the area around fort Calhoun Station. The soil sample analysis is only typical of the results in each area. It is to be assumed that the ratios and the isotopic mix are consistent in each area, also that no DILs/PAGs are exceeded in the areas for C, D, E, and F. DILS/PAGs are exceeded in the Red Lined Area A and the Dashed Red Line Area B.

Ground Shine/Gross Deposition

5/2/2003

	A	B	C	D	E	F
Ground Dose Rate	1.37E+04	2.99E+03	120	bkg	bkg	bkg
at 1 meter (uR/hr)						
Frisker at 1 meter (cpm)	547	119	5	bkg	bkg	bkg
Frisker at 1 cm (cpm)	2.74E+04	5.98E+03	239	bkg	bkg	bkg
Smears (dpm/100 cm2)	2.37E+05	5.16E+04	2.06E+03	5	1	bkg
Surface (uCi/m2)	1.07E+03	2.33E+02	9.30E+00	2.16E-02	4.92E-03	0.00E+00

	A	B	C	D	E	F
Soil (uCi/m2)						
I-131	3.90E+02	8.50E+01	3.40E+00	7.90E-03	1.80E-03	0.00E+00
I-132	2.90E+00	6.32E-01	2.53E-02	5.88E-05	1.34E-05	0.00E+00
I-133	1.82E+02	3.97E+01	1.59E+00	3.69E-03	8.40E-04	0.00E+00
I-135	2.08E+02	4.53E+01	1.81E+00	4.21E-03	9.60E-04	0.00E+00
Cs-134	9.10E+01	1.98E+01	7.93E-01	1.84E-03	4.20E-04	0.00E+00
Cs-137	7.37E+01	1.61E+01	6.42E-01	1.49E-03	3.40E-04	0.00E+00
Te-132	2.82E+00	6.14E-01	2.46E-02	5.71E-05	1.30E-05	0.00E+00
Ba-140	2.38E+01	5.19E+00	2.08E-01	4.83E-04	1.10E-04	0.00E+00
La-140	1.95E+01	4.25E+00	1.70E-01	3.95E-04	9.00E-05	0.00E+00
Ru-103	2.12E+01	4.63E+00	1.85E-01	4.30E-04	9.80E-05	0.00E+00
Ru-106	5.20E+01	1.13E+01	4.53E-01	1.05E-03	2.40E-04	0.00E+00
Contact Dose Rate (uR/hr)	1.63E+04	3.55E+03	142	bkg	bkg	bkg
Greater than Relocation PAG	Yes	Yes	No	No	No	No

PHASE TWO
RELOCATION, REENTRY, RECOVERY MANUAL

FOR THE
JUNE 24, 2003
FORT CALHOUN STATION

EMERGENCY
PREPAREDNESS EXERCISE

VOLUME 6

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THIS PAGE IS AN OVERSIZED DRAWING OR FIGURE,

THAT CAN BE VIEWED AT THE RECORD TITLED:

DETAILED MAP OF AREA AROUND FORT CALHOUN STATION

WITHIN THIS PACKAGE

NOTE: Because of these page's large file size, it may be more convenient to copy the file to a local drive and use the Imaging (Wang) viewer, which can be accessed from the Programs/Accessories menu.

D-01