Luminant

Rafael Flores
Senior Vice President &
Chief Nuclear Officer
rafael.flores@luminant.com

Luminant Power
P O Box 1002
6322 North FM 56
Glen Rose, TX 76043

T 254.897.5590
F 254.897.6652
C 817.559.0403

CP-201000323
Log # TXNB-10014

Ref. # 10 CFR 52

March 1, 2010

U. S. Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555
ATTN: David B. Matthews, Director
Division of New Reactor Licensing

SUBJECT: COMANCHE PEAK NUCLEAR POWER PLANT, UNITS 3 AND 4
DOCKET NUMBERS 52-034 AND 52-035
RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION NO. 4224

Dear Sir:

Luminant Generation Company LLC (Luminant) submits herein the response to Request for Additional Information (RAI) No. 4224 for the Combined License Application for Comanche Peak Nuclear Power Plant Units 3 and 4. These are responses regarding the Evacuation Time Estimate performed for the Units 3 and 4 Emergency Plan submitted as Part 5 of the application.

Should you have any questions regarding this response, please contact Don Woodlan (254-897-6887, Donald.Woodlan@luminant.com) or me.

There are no commitments in this letter.

I state under penalty of perjury that the foregoing is true and correct.

Executed on March 1, 2010.

Sincerely,

Luminant Generation Company LLC

Donald R. Woodlan for

Rafael Flores

Attachment: Response to Request for Additional Information No. 4224 (CP RAI #134)

AX45
D090
NRO

Electronic distribution w/attachment

mike.blevins@luminant.com
Rafael.Flores@luminant.com
mlucas3@luminant.com
jeff.simmons@energyfutureholdings.com
Bill.Moore@luminant.com
Brock.Degeyter@energyfutureholdings.com
rbird1@luminant.com
Matthew.Weeks@luminant.com
Allan.Koenig@luminant.com
Timothy.Clouser@luminant.com
Ronald.Carver@luminant.com
David.Volkening@luminant.com
Bruce.Turner@luminant.com
Eric.Evans@luminant.com
Robert.Reible@luminant.com
donald.woodlan@luminant.com
John.Conly@luminant.com
JCaldwell@luminant.com
David.Beshear@txu.com
Ashley.Monts@luminant.com
Fred.Madden@luminant.com
Dennis.Buschbaum@luminant.com
Carolyn.Cosentino@luminant.com

Luminant Records Management

masahiko_kaneda@mnes-us.com
masanori_onozuka@mnes-us.com
ck_paulson@mnes-us.com
joseph_tapia@mnes-us.com
russell_bywater@mnes-us.com
diane_yeager@mnes-us.com
kazuya_hayashi@mnes-us.com
mutsumi_ishida@mnes-us.com
nan_sirirat@mnes-us.com
masaya_hoshi@mnes-us.com
rjb@nei.org
kak@nei.org
michael.takacs@nrc.gov
cp34update@certrec.com
michael.johnson@nrc.gov
David.Matthews@nrc.gov
Balwant.Singal@nrc.gov
Hossein.Hamzehee@nrc.gov
Stephen.Monarque@nrc.gov
jeff.ciocco@nrc.gov
michael.willingham@nrc.gov
john.kramer@nrc.gov
Brian.Tindell@nrc.gov
Donald.Palmrose@nrc.gov
Elmo.Collins@nrc.gov
Loren.Plisco@nrc.com
Laura.Goldin@nrc.gov
James.Biggins@nrc.gov
Susan.Vrahoretis@nrc.gov
sfrantz@morganlewis.com
jrund@morganlewis.com
tmatthews@morganlewis.com

RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

Comanche Peak, Units 3 and 4

Luminant Generation Company LLC

Docket Nos. 52-034 and 52-035

RAI NO.: 4224 (CP RAI #134)

SRP SECTION: 13.03 - Emergency Planning

QUESTIONS for Licensing and Inspection Branch (NSIR/DPR/LIB) (EP)

DATE OF RAI ISSUE: 1/25/2010

QUESTION NO.: 13.03-30

Open Item 13.03-01: Subject: Demand Estimation, Permanent Residents
[Basis: 10 CFR 50 Appendix E (IV); Appendix 4 to NUREG-0654 Section II.A]
Acceptance Criteria: NUREG-0800, Standard Review Plan, Section 13.3, "Emergency Planning," Requirements A and H; Acceptance Criterion 11

In response to RAI 13.03-19.B, the applicant explained that zone specific growth rates were multiplied by 15/7 in order to compute a growth factor to 2015 from the 2007 population estimate. However, the applicant did not explain in the response why a factor of 15/7 was selected to compute the 2015 population. Explain why a 15/7 factor was used to compute the 2015 population.

ANSWER:

The growth factor of 15/7 discussed in the response to Question 13.03-019, part B, used to project permanent resident and shadow population to the peak construction year of 2015 is incorrect and should be 8/7. The base year used in this Evacuation Time Estimate (ETE) study is 2007. Population growth rates were computed for each Zone by comparing the Year 2007 populations to the Year 2000 populations, and arriving at a composite growth rate for the seven-year period.

To estimate an 8-year growth rate from 2007 to 2015, the composite growth rate for the 2000-2007 timeframe should have been multiplied by 8/7 and then applied to the 2007 population as a baseline. Correction of this calculation results in 2,695 fewer vehicles in the Construction Scenario (Scenario 12) evacuation simulation. Specifically, this resulted in a decrease in the number of permanent resident vehicles for Scenario 12 from 24,669 to 22,362 (total of "Residents with Commuters" and "Residents without Commuters" columns in Table 6-4) and a decrease in the number of shadow vehicles from 4,324 to 3,936.

Section 3.2 of the ETE Report has been revised to state that a growth factor of 8/7 was used.

The growth factor was corrected to 8/7 in the data input stream and all simulation cases were re-run as a result. The ETE for Scenario 12 in Tables 7-1C and 7-1D in the Executive Summary, in Tables 7-1A through 7-1D in Section 7 and in Tables J-1A through J-1D, and Figure J-12 in Appendix J have been revised based on the new simulation runs. Table 6-4 in Section 6 has also been revised to reflect the correct number of permanent and shadow vehicles.

Correction of the calculation and re-run of Scenario 12 resulted in the following changes to the ETE:

- The ETEs at the 50th percentile have increased by 5 to 25 minutes.

  Although the number of evacuating vehicles is fewer than presented in Revision 2, the 5 to 25-minute increase in ETEs occurs because the 50th percentile ETE for Scenario 12 were incorrect in Tables 7-1A and J-1A in ETE Report Revision 2. Inadvertently, the 50th percentile ETE for Scenario 11 were repeated for Scenario 12 in these tables. When comparing the results of the new simulation runs with the correct ETE based on the Revision 2 runs, the new simulation runs indicate a 5-minute decrease. However, because the Scenario 11 ETE results were documented as Scenario 12 ETE for the 50th percentile, the documentation in Tables 7-1A and J-1A appear to indicate 5- to 25-minute increases in the Scenario 12 ETE for the 50th percentile. These tables are corrected in Revision 3 of the ETE.

- The ETE at the 90th and 95th percentiles have decreased by 5 to 10 minutes.

- The changes in ETE at the 100th percentile ranged from 10-minute decreases to 10-minute increases.

  The 10-minute increases in the 100th percentile ETE are a result of the ETE being skewed by those relatively few stragglers who take longer to mobilize. The longer response time of these few people results in the long tail of the evacuation plot shown graphically in Figure J-12 of the ETE report. As such, the 100th percentile ETE is difficult to quantify. The changes in ETE at the 100th percentile are the result of rounding and extrapolation differences between the Revision 2 simulation runs and the new simulation runs. As noted on page 4 of the Executive Summary, it is recommended that the 95th percentile ETE be referenced when preparing protective action recommendations to avoid the effects of the long tail on the 100th percentile ETE.

In addition to the changes to Table 6-4 described above, the External Traffic was incorrectly documented in Revision 2 of the ETE Report. The External Traffic shown in Table 6-4 is an hourly volume, as discussed in Section 3.6 of the ETE Report. As noted in Section 3.6 of the ETE Report, 1,700 vehicles per lane per hour enter the EPZ as External Traffic. External Traffic is stopped at 90 minutes after the Advisory to Evacuate (ATE). The External Traffic shown in Table 6-4 should be 1.5 times the hourly volume. The External Traffic entries in Table 6-4 have been revised to 2,550 vehicles for all midday scenarios and to 1,530 vehicles for all evening scenarios. External Traffic is assumed to be reduced by 40% in the evening relative to the midday, as shown in Table 6-3 of the ETE Report. The input streams to DYNEV were checked and the External Traffic was entered correctly to the model. Thus, the simulation runs and the ETE results are not affected by this documentation error.

Impact on R-COLA

See attached ETE Report draft Revision 3 pages ES-10, ES-11, ES-12, ES-13, 3-3, 6-7, 7-7, 7-8, 7-9, 7-10, 7-11, 7-12, 7-13, 7-14, J-4, J-5, J-6, J-7, J-8, J-9, J-10, J-11, and J-25.

Proposed revisions to the ETE Report require review by State and local governments prior to implementation. The revised ETE report incorporating the proposed changes described in this response will be submitted to the NRC following State and local concurrence.

Impact on S-COLA

None.

Impact on DCD

None.

RCOL2_13.03-30

Table 7-1C. Time to Clear the Indicated Area of 95 Percent of The Affected Population (page 1 of 2)

	Summer		Summer		Summer		Winter		Winter		Winter		Summer	Summer	Summer
	Midweek		Weekend		Midweek Weekend		Midweek		Weekend		Midweek Weekend		Weekend	Midweek	Weekend
Scenario:	(1)	(2)	(3)	(4)	(5)	Scenario:	(6)	(7)	(8)	(9)	(10)	Scenario:	(11)	(12)	(13)
Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday	Midday	Midday
	Good Weather	Rain	Good Weather	Rain	Good Weather		Good Weather	Rain	Good Weather	Rain	Good Weather		Event in Amphitheatre	New Plant Construction	Granbury 4th of July
Entire 2-Mile Region, 5-Mile Region, and EPZ															
R01 2-mile ring	1:40	1:40	1:30	1:30	1:30	R01 2-mile ring	1:40	1:40	1:30	1:30	1:30	R01 2-mile ring	1:30	2:15	1:30
R02 5-mile ring	2:20	2:20	2:10	2:10	2:00	R02 5-mile ring	2:20	2:20	1:50	1:50	1:50	R02 5-mile ring	2:40	~~2:25~~ 2:20	1:50
R03 Entire EPZ	2:50	2:50	2:10	2:20	2:10	R03 Entire EPZ	2:40	2:40	2:10	2:20	2:10	R03 Entire EPZ	2:30	~~2:45~~ 2:40	3:10
2-Mile Ring and Downwind to 5 Miles (3 sector groups)															
R04 N	2:20	2:20	1:50	1:50	2:00	R04 N	2:20	2:20	1:50	1:50	2:00	R04 N	1:50	2:15	1:50
R05 NNE	2:20	2:20	1:50	1:50	1:50	R05 NNE	2:20	2:20	1:50	1:50	1:50	R05 NNE	1:50	2:15	1:50
R06 NE	2:10	2:10	1:50	1:50	1:50	R06 NE	2:10	2:10	1:50	1:50	1:50	R06 NE	1:45	2:15	1:50
R07 ENE	2:10	2:10	1:40	1:50	1:50	R07 ENE	2:10	2:10	1:50	1:50	1:50	R07 ENE	1:45	2:15	1:40
R08 E	2:00	2:00	1:40	1:40	1:50	R08 E	2:00	2:00	1:40	1:40	1:50	R08 E	1:45	2:15	1:40
R09 ESE	2:00	2:00	1:55	2:00	1:45	R09 ESE	2:10	2:10	1:40	1:50	1:50	R09 ESE	2:50	~~2:20~~ 2:15	1:55
R10 SE	2:00	2:00	1:50	2:00	1:40	R10 SE	2:10	2:10	1:40	1:50	1:50	R10 SE	2:50	2:15	1:50
R11 SSE, S	1:50	2:00	1:45	1:50	1:40	R11 SSE, S	2:00	2:00	1:40	1:40	1:40	R11 SSE, S	2:40	2:15	1:45
R12 SSW	2:00	2:00	1:45	1:50	1:40	R12 SSW	2:00	2:00	1:40	1:40	1:40	R12 SSW	2:40	2:15	1:45
R13 SW	1:50	2:00	1:40	1:40	1:40	R13 SW	1:50	2:00	1:40	1:40	1:40	R13 SW	1:40	2:15	1:40
R14 WSW	2:10	2:10	1:40	1:40	1:50	R14 WSW	2:10	2:10	1:40	1:40	1:50	R14 WSW	1:40	2:20	1:40
R15 W	2:10	2:10	1:40	1:40	1:50	R15 W	2:10	2:10	1:40	1:40	1:50	R15 W	1:40	2:15	1:40
R16 WNW	2:10	2:10	1:40	1:40	1:50	R16 WNW	2:10	2:10	1:40	1:40	1:50	R16 WNW	1:40	2:15	1:40
R17 NW, NNW	2:10	2:10	1:40	1:40	1:50	R17 NW, NNW	2:10	2:10	1:40	1:40	1:50	R17 NW, NNW	1:40	2:15	1:40
2-Mile Ring and Downwind to EPZ Boundary (3 sector groups)															
R18 N	2:50	2:50	2:10	2:20	2:10	R18 N	2:50	2:50	2:10	2:20	2:10	R18 N	2:10	2:40	3:15
R19 NNE	2:50	2:50	2:10	2:20	2:10	R19 NNE	2:50	2:50	2:10	2:20	2:10	R19 NNE	2:10	2:40	3:10
R20 NE	2:40	2:40	2:10	2:10	2:10	R20 NE	2:40	2:40	2:10	2:10	2:10	R20 NE	2:10	~~2:40~~ 2:30	2:20
R21 ENE	2:30	2:30	1:50	1:50	2:00	R21 ENE	2:30	2:30	1:50	2:00	2:00	R21 ENE	1:50	2:20	1:50
R22 E	2:30	2:30	1:50	1:50	2:00	R22 E	2:30	2:30	1:50	1:50	2:00	R22 E	1:50	2:20	1:50
R23 ESE	2:10	2:10	2:00	2:10	1:50	R23 ESE	2:10	2:10	1:50	1:55	1:50	R23 ESE	2:40	2:20	2:00
R24 SE	2:10	2:10	2:00	2:10	1:50	R24 SE	2:10	2:20	1:50	1:55	1:50	R24 SE	2:40	2:20	2:00
R25 SSE	2:10	2:10	1:55	2:05	1:50	R25 SSE	2:10	2:10	1:50	1:55	1:50	R25 SSE	2:40	~~2:35~~ 2:30	1:55
R26 S	2:10	2:10	1:55	2:00	1:50	R26 S	2:10	2:10	1:50	1:50	1:50	R26 S	2:40	~~2:35~~ 2:30	1:55
R27 SSW	2:00	2:05	1:50	2:00	1:50	R27 SSW	2:10	2:10	1:50	1:50	1:50	R27 SSW	2:40	2:40	1:50
R28 SW	2:00	2:00	1:40	1:45	1:40	R28 SW	2:00	2:00	1:40	1:40	1:40	R28 SW	1:40	~~2:30~~ 2:25	1:40
R29 WSW	2:10	2:10	1:50	1:50	1:50	R29 WSW	2:20	2:20	1:50	1:50	1:50	R29 WSW	1:50	2:25	1:50
R30 W	2:40	2:40	2:00	2:00	2:10	R30 W	2:40	2:40	2:00	2:00	2:10	R30 W	2:00	2:25	2:10
R31 WNW	2:40	2:40	2:00	2:00	2:10	R31 WNW	2:40	2:40	2:00	2:00	2:10	R31 WNW	2:00	~~2:30~~ 2:25	2:10
R32 NW	2:40	2:40	2:10	2:10	2:10	R32 NW	2:40	2:50	2:10	2:10	2:10	R32 NW	2:10	2:30	2:15
R33 NNW	2:40	2:50	2:10	2:20	2:10	R33 NNW	2:50	2:50	2:10	2:20	2:10	R33 NNW	2:10	2:40	3:20

RCOL2_13.03-30

Table 7-1C. Time to Clear the Indicated Area of 95 Percent of The Affected Population (page 2 of 2)

	Summer		Summer		Summer		Winter		Winter		Winter		Summer	Summer	Summer
	Midweek		Weekend		Midweek Weekend		Midweek		Weekend		Midweek Weekend		Weekend	Midweek	Weekend
Scenario:	(1)	(2)	(3)	(4)	(5)	Scenario:	(6)	(7)	(8)	(9)	(10)	Scenario:	(11)	(12)	(13)
Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday	Midday	Midday
	Good Weather	Rain	Good Weather	Rain	Good Weather		Good Weather	Rain	Good Weather	Rain	Good Weather		Event in Amphitheatre	New Plant Construction	Granbury 4th of July
2-Mile Ring and Downwind to 5 Miles (5 sector groups)															
R34 N	2:20	2:20	1:50	1:50	2:00	R34 N	2:20	2:20	1:50	1:50	2:00	R34 N	1:50	2:15	1:50
R35 NNE	2:20	2:20	1:50	1:50	1:50	R35 NNE	2:20	2:20	1:50	1:50	1:50	R35 NNE	1:50	2:15	1:50
R36 NE	2:10	2:10	1:50	1:50	1:50	R36 NE	2:10	2:20	1:50	1:50	1:50	R36 NE	1:45	2:15	1:50
R37 ENE	2:10	2:10	1:40	1:50	1:50	R37 ENE	2:20	2:20	1:40	1:50	1:50	R37 ENE	2:10	2:20	1:40
R38 E	2:00	2:00	1:55	2:00	1:50	R38 E	2:10	2:10	1:40	1:50	1:50	R38 E	2:50	~~2:20~~ 2:15	1:55
R39 ESE	2:00	2:00	1:50	2:00	1:45	R39 ESE	2:10	2:10	1:40	1:50	1:40	R39 ESE	2:40	~~2:20~~ 2:15	1:50
R40 SE	2:00	2:00	1:50	1:55	1:40	R40 SE	2:00	2:00	1:40	1:50	1:40	R40 SE	2:50	2:15	1:50
R41 SSE, S	2:00	2:00	1:45	1:50	1:40	R41 SSE, S	2:00	2:00	1:40	1:40	1:40	R41 SSE, S	2:40	2:15	1:45
R42 SSW	2:00	2:00	1:50	1:50	1:40	R42 SSW	2:00	2:10	1:40	1:40	1:40	R42 SSW	2:40	2:20	1:50
R43 SW	2:10	2:10	1:50	1:50	1:40	R43 SW	2:10	2:10	1:40	1:40	1:50	R43 SW	2:40	2:20	1:50
R44 WSW	2:10	2:10	1:40	1:40	1:50	R44 WSW	2:10	2:10	1:40	1:40	1:50	R44 WSW	1:40	2:20	1:40
R45 W	2:20	2:20	1:50	1:50	2:00	R45 W	2:20	2:20	1:50	1:50	2:00	R45 W	1:50	2:20	1:50
R46 WNW	2:20	2:20	1:50	1:50	2:00	R46 WNW	2:20	2:20	1:50	1:50	2:00	R46 WNW	1:50	2:20	1:50
R47 NW, NNW	2:20	2:20	1:50	1:50	2:00	R47 NW, NNW	2:20	2:20	1:50	1:50	2:00	R47 NW, NNW	1:50	2:15	1:50
2-Mile Ring and Downwind to EPZ Boundary (5 sector groups)															
R48 N	2:50	2:50	2:10	2:20	2:10	R48 N	2:50	2:50	2:10	2:20	2:10	R48 N	2:10	2:40	3:20
R49 NNE	2:40	2:40	2:10	2:20	2:10	R49 NNE	2:40	2:50	2:10	2:20	2:10	R49 NNE	2:10	2:40	3:20
R50 NE	2:40	2:40	2:10	2:20	2:10	R50 NE	2:40	2:40	2:10	2:20	2:10	R50 NE	2:10	~~2:40~~ 2:30	3:10
R51 ENE	2:40	2:40	2:10	2:20	2:10	R51 ENE	2:40	2:40	2:10	2:20	2:10	R51 ENE	2:10	~~2:40~~ 2:30	2:30
R52 E	2:30	2:30	2:00	2:10	1:50	R52 E	2:30	2:30	1:50	1:55	1:50	R52 E	2:40	~~2:25~~ 2:20	2:00
R53 ESE	2:20	2:20	2:00	2:00	1:50	R53 ESE	2:30	2:30	1:50	1:55	1:50	R53 ESE	2:40	~~2:25~~ 2:20	2:00
R54 SE	2:10	2:10	2:00	2:10	1:50	R54 SE	2:20	2:20	1:50	1:55	1:50	R54 SE	2:40	~~2:35~~ 2:30	2:00
R55 SSE	2:10	2:10	2:00	2:10	1:50	R55 SSE	2:20	2:20	1:50	1:55	1:50	R55 SSE	2:40	~~2:35~~ 2:30	2:00
R56 S	2:00	2:10	1:55	2:05	1:50	R56 S	2:10	2:10	1:50	1:50	1:50	R56 S	2:50	2:30	1:55
R57 SSW	2:10	2:10	1:55	2:00	1:50	R57 SSW	2:20	2:20	1:50	1:50	1:50	R57 SSW	2:40	~~2:40~~ 2:35	1:55
R58 SW	2:10	2:20	1:50	2:00	1:50	R58 SW	2:20	2:20	1:50	1:50	1:50	R58 SW	2:40	2:40	1:50
R59 WSW	2:30	2:30	1:50	2:00	2:00	R59 WSW	2:30	2:30	2:00	2:00	2:00	R59 WSW	1:50	2:30	2:05
R60 W	2:30	2:30	2:00	2:00	2:00	R60 W	2:30	2:30	2:00	2:00	2:00	R60 W	2:00	~~2:30~~ 2:25	2:10
R61 WNW	2:40	2:40	2:00	2:10	2:10	R61 WNW	2:40	2:40	2:00	2:10	2:10	R61 WNW	2:00	2:30	2:10
R62 NW	2:50	2:50	2:10	2:20	2:10	R62 NW	2:50	2:50	2:10	2:20	2:10	R62 NW	2:10	2:40	3:20
R63 NNW	2:50	2:50	2:10	2:20	2:10	R63 NNW	2:50	2:50	2:10	2:20	2:10	R63 NNW	2:10	2:40	3:20

RCOL2_13.03-30

Table 7-1D. Time to Clear the Indicated Area of 100 Percent of The Affected Population (page 1 of 2)

	Summer		Summer		Summer		Winter		Winter		Winter		Summer	Summer	Summer
	Midweek		Weekend		Midweek Weekend		Midweek		Weekend		Midweek Weekend		Weekend	Midweek	Weekend
Scenario:	(1)	(2)	(3)	(4)	(5)	Scenario:	(6)	(7)	(8)	(9)	(10)	Scenario:	(11)	(12)	(13)
Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday	Midday	Midday
	Good Weather	Rain	Good Weather	Rain	Good Weather		Good Weather	Rain	Good Weather	Rain	Good Weather		Event in Amphitheatre	New Plant Construction	Granbury 4th of July
Entire 2-Mile Region, 5-Mile Region, and EPZ															
R01 2-mile ring	3:50	3:50	2:50	3:00	3:00	R01 2-mile ring	3:50	3:50	2:50	2:50	3:00	R01 2-mile ring	2:50	~~3:40~~ 3:50	2:50
R02 5-mile ring	4:10	4:10	3:10	3:10	3:10	R02 5-mile ring	4:10	4:10	3:10	3:10	3:10	R02 5-mile ring	3:10	4:10	3:10
R03 Entire EPZ	4:20	4:20	4:00	4:00	4:00	R03 Entire EPZ	4:20	4:20	4:00	4:00	4:00	R03 Entire EPZ	4:00	4:20	4:00
2-Mile Ring and Downwind to 5 Miles (3 sector groups)															
R04 N	4:10	4:10	3:10	3:10	3:00	R04 N	4:00	4:10	3:10	3:10	3:10	R04 N	3:10	4:10	3:10
R05 NNE	4:00	4:10	3:00	3:00	3:10	R05 NNE	4:00	4:10	3:00	3:10	3:00	R05 NNE	3:00	4:00	3:00
R06 NE	4:00	4:00	3:00	3:00	3:10	R06 NE	4:00	4:10	3:10	3:10	3:10	R06 NE	3:00	4:00	3:00
R07 ENE	4:00	4:00	3:00	3:00	3:00	R07 ENE	4:00	4:00	3:00	3:00	3:00	R07 ENE	3:00	4:00	3:00
R08 E	4:00	4:00	3:00	3:00	3:00	R08 E	4:00	4:00	3:00	3:00	3:00	R08 E	3:00	4:00	3:00
R09 ESE	4:00	4:00	3:00	3:00	3:00	R09 ESE	4:00	4:00	3:00	3:00	3:00	R09 ESE	3:00	4:00	3:00
R10 SE	4:00	4:00	3:00	3:00	3:00	R10 SE	4:00	4:00	3:00	3:00	3:00	R10 SE	3:00	4:00	3:00
R11 SSE, S	4:00	4:00	3:00	3:00	3:00	R11 SSE, S	4:00	4:00	2:50	3:00	3:00	R11 SSE, S	3:00	4:00	3:00
R12 SSW	4:00	4:00	3:00	3:00	3:00	R12 SSW	4:00	4:00	2:50	3:00	3:00	R12 SSW	3:00	4:00	3:00
R13 SW	4:00	4:00	3:00	3:10	3:00	R13 SW	4:00	4:00	3:10	3:10	3:00	R13 SW	3:00	4:00	3:00
R14 WSW	4:10	4:10	3:10	3:10	3:10	R14 WSW	4:00	4:10	3:10	3:10	3:10	R14 WSW	3:10	~~4:00~~ 4:10	3:10
R15 W	4:10	4:10	3:10	3:10	3:10	R15 W	4:00	4:10	3:10	3:10	3:10	R15 W	3:10	~~4:00~~ 4:10	3:10
R16 WNW	4:10	4:10	3:10	3:10	3:10	R16 WNW	4:00	4:10	3:10	3:10	3:10	R16 WNW	3:10	~~4:00~~ 4:10	3:10
R17 NW, NNW	4:10	4:10	3:10	3:10	3:10	R17 NW, NNW	4:00	4:10	3:10	3:10	3:10	R17 NW, NNW	3:10	4:10	3:10
2-Mile Ring and Downwind to EPZ Boundary (3 sector groups)															
R18 N	4:10	4:20	4:00	4:00	4:00	R18 N	4:10	4:10	4:00	4:00	4:00	R18 N	4:00	4:10	4:00
R19 NNE	4:10	4:10	4:00	4:00	3:50	R19 NNE	4:10	4:10	4:00	4:00	4:00	R19 NNE	4:00	4:10	4:00
R20 NE	4:10	4:10	3:50	4:00	3:50	R20 NE	4:10	4:10	3:50	4:00	4:00	R20 NE	3:50	4:10	3:50
R21 ENE	4:00	4:00	3:40	3:40	3:40	R21 ENE	4:00	4:00	3:40	3:40	3:40	R21 ENE	3:40	4:00	3:40
R22 E	4:00	4:00	3:40	3:40	3:40	R22 E	4:00	4:00	3:40	3:40	3:40	R22 E	3:40	4:00	3:40
R23 ESE	4:00	4:00	3:00	3:00	3:00	R23 ESE	4:00	4:00	3:00	3:10	3:00	R23 ESE	3:00	4:00	3:00
R24 SE	4:00	4:00	3:00	3:00	3:00	R24 SE	4:00	4:00	3:00	3:10	3:00	R24 SE	3:00	4:00	3:00
R25 SSE	4:00	4:00	3:00	3:10	3:00	R25 SSE	4:10	4:10	3:10	3:10	3:10	R25 SSE	3:10	~~4:10~~ 4:00	3:00
R26 S	4:00	4:00	3:00	3:10	3:00	R26 S	4:00	4:00	3:00	3:00	3:10	R26 S	3:00	~~4:10~~ 4:00	3:00
R27 SSW	4:00	4:00	3:10	3:10	3:00	R27 SSW	4:00	4:10	3:00	3:00	3:00	R27 SSW	3:00	4:00	3:10
R28 SW	4:00	4:10	3:10	3:10	3:10	R28 SW	4:10	4:10	3:10	3:10	3:10	R28 SW	3:10	~~4:10~~ 4:00	3:10
R29 WSW	4:10	4:10	3:10	3:10	3:10	R29 WSW	4:10	4:10	3:10	3:10	3:10	R29 WSW	3:10	~~4:00~~ 4:10	3:10
R30 W	4:10	4:10	3:50	3:50	4:00	R30 W	4:10	4:10	3:50	3:50	3:50	R30 W	3:50	4:10	3:50
R31 WNW	4:20	4:20	3:50	3:50	4:00	R31 WNW	4:10	4:20	3:50	4:00	4:00	R31 WNW	3:50	4:20	3:50
R32 NW	4:20	4:20	3:50	3:50	3:50	R32 NW	4:20	4:20	3:50	4:00	3:50	R32 NW	3:50	4:20	3:50
R33 NNW	4:10	4:20	4:00	4:00	4:00	R33 NNW	4:10	4:20	4:00	4:00	4:00	R33 NNW	4:00	4:20	4:00

RCOL2_13.03-30

Table 7-1D. Time to Clear the Indicated Area of 100 Percent of The Affected Population (page 2 of 2)

	Summer		Summer		Summer		Winter		Winter		Winter		Summer	Summer	Summer
	Midweek		Weekend		Midweek Weekend		Midweek		Weekend		Midweek Weekend		Weekend	Midweek	Weekend
Scenario:	(1)	(2)	(3)	(4)	(5)	Scenario:	(6)	(7)	(8)	(9)	(10)	Scenario:	(11)	(12)	(13)
Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday	Midday	Midday
	Good Weather	Rain	Good Weather	Rain	Good Weather		Good Weather	Rain	Good Weather	Rain	Good Weather		Event in Amphitheatre	New Plant Construction	Granbury 4th of July
2-Mile Ring and Downwind to 5 Miles (5 sector groups)															
R34 N	4:10	4:10	3:10	3:10	3:10	R34 N	4:00	4:10	3:10	3:10	3:10	R34 N	3:10	~~4:00~~ 4:10	3:10
R35 NNE	4:10	4:10	3:10	3:10	3:10	R35 NNE	4:10	4:10	3:10	3:10	3:10	R35 NNE	3:10	4:10	3:10
R36 NE	4:00	4:00	3:00	3:00	3:10	R36 NE	4:00	4:10	3:10	3:00	3:10	R36 NE	3:00	4:00	3:00
R37 ENE	4:00	4:00	3:00	3:00	3:00	R37 ENE	4:00	4:00	3:00	3:00	3:00	R37 ENE	3:10	4:00	3:00
R38 E	4:00	4:00	3:00	3:00	3:00	R38 E	4:00	4:00	3:00	3:00	3:00	R38 E	3:10	4:00	3:00
R39 ESE	4:00	4:00	3:00	3:00	3:00	R39 ESE	4:00	4:00	3:00	3:00	3:00	R39 ESE	3:10	4:00	3:00
R40 SE	4:00	4:00	3:00	3:00	3:00	R40 SE	4:00	4:00	3:00	3:00	3:00	R40 SE	3:10	4:00	3:00
R41 SSE, S	4:00	4:00	3:00	3:00	3:00	R41 SSE, S	4:00	4:00	3:00	3:00	3:00	R41 SSE, S	3:10	4:00	3:00
R42 SSW	4:00	4:00	3:00	3:00	3:00	R42 SSW	4:00	4:00	3:00	3:00	3:00	R42 SSW	3:10	4:00	3:00
R43 SW	4:00	4:00	3:10	3:00	3:10	R43 SW	4:00	4:00	3:10	3:10	3:10	R43 SW	3:10	4:00	3:10
R44 WSW	4:10	4:10	3:10	3:10	3:10	R44 WSW	4:00	4:10	3:10	3:10	3:10	R44 WSW	3:10	~~4:00~~ 4:10	3:10
R45 W	4:10	4:10	3:10	3:10	3:10	R45 W	4:10	4:10	3:10	3:10	3:10	R45 W	3:10	4:10	3:10
R46 WNW	4:10	4:10	3:10	3:10	3:10	R46 WNW	4:10	4:10	3:10	3:10	3:10	R46 WNW	3:10	4:10	3:10
R47 NW, NNW	4:10	4:10	3:10	3:10	3:10	R47 NW, NNW	4:10	4:10	3:10	3:10	3:10	R47 NW, NNW	3:10	4:10	3:10
2-Mile Ring and Downwind to EPZ Boundary (5 sector groups)															
R48 N	4:10	4:20	4:00	4:00	4:00	R48 N	4:20	4:20	4:00	4:00	4:00	R48 N	4:00	4:10	4:00
R49 NNE	4:10	4:20	4:00	4:00	4:00	R49 NNE	4:10	4:20	4:00	4:00	4:00	R49 NNE	4:00	4:10	4:00
R50 NE	4:10	4:10	4:00	4:00	4:00	R50 NE	4:10	4:10	3:50	4:00	4:00	R50 NE	4:00	4:10	4:00
R51 ENE	4:10	4:10	3:50	4:00	3:50	R51 ENE	4:10	4:10	3:50	4:00	4:00	R51 ENE	3:50	4:10	3:50
R52 E	4:10	4:10	3:40	3:40	3:40	R52 E	4:00	4:10	3:40	3:40	3:40	R52 E	3:40	~~4:00~~ 4:10	3:40
R53 ESE	4:10	4:10	3:40	3:40	3:40	R53 ESE	4:00	4:00	3:40	3:40	3:40	R53 ESE	3:40	~~4:00~~ 4:10	3:40
R54 SE	4:00	4:10	3:00	3:10	3:00	R54 SE	4:00	4:10	3:00	3:10	3:00	R54 SE	3:20	~~4:10~~ 4:00	3:10
R55 SSE	4:00	4:00	3:00	3:10	3:00	R55 SSE	4:10	4:10	3:00	3:10	3:10	R55 SSE	3:20	~~4:10~~ 4:00	3:00
R56 S	4:00	4:00	3:10	3:10	3:10	R56 S	4:10	4:00	3:00	3:10	3:10	R56 S	3:20	~~4:10~~ 4:00	3:10
R57 SSW	4:00	4:10	3:10	3:10	3:10	R57 SSW	4:10	4:10	3:10	3:10	3:10	R57 SSW	3:20	~~4:10~~ 4:00	3:10
R58 SW	4:10	4:10	3:10	3:10	3:10	R58 SW	4:10	4:10	3:10	3:10	3:10	R58 SW	3:20	~~4:00~~ 4:10	3:10
R59 WSW	4:10	4:10	3:50	3:50	3:50	R59 WSW	4:10	4:10	3:50	3:50	3:50	R59 WSW	3:50	4:10	3:50
R60 W	4:20	4:20	3:50	3:50	4:00	R60 W	4:10	4:20	3:50	4:00	3:50	R60 W	3:50	~~4:10~~ 4:20	3:50
R61 WNW	4:20	4:20	3:50	4:00	4:00	R61 WNW	4:20	4:20	3:50	3:50	4:00	R61 WNW	3:50	4:20	3:50
R62 NW	4:10	4:20	4:00	4:00	4:00	R62 NW	4:20	4:20	4:00	4:00	4:00	R62 NW	4:00	~~4:20~~ 4:10	4:00
R63 NNW	4:20	4:20	4:00	4:00	4:00	R63 NNW	4:20	4:20	4:00	4:00	4:00	R63 NNW	4:00	4:20	4:00

results, were used to estimate the number of evacuating vehicles using the 2007 population.

Permanent resident population and vehicle estimates for 2007 are presented in Table 3-2. Figures 3-2 and 3-3 present the permanent resident population and permanent resident vehicle estimates by sector and distance from the CPNPP.

3.2 Construction

A "special event" scenario (Scenario 12) which represents a typical summer, mid-week, midday with construction workers on-site at the time of the emergency, was considered. The peak construction period – based on discussions with Enercon Services – would be in the year 2015, with workforce estimates of 4,300 workers. An average vehicle occupancy of 1.02 workers per vehicle (adapted from telephone survey results) was used to convert workers to vehicles – 4,202 total vehicles. The existing roadway system was used for the construction scenario; no roadway improvements were considered. Permanent resident population and shadow population were extrapolated to 2015 for this scenario.

Population growth rates by county from Year 2000 to Year 2007 are presented in Section 3.1. These values were applied to each Zone, depending on which county the zone is in. The "CP" Zone is partially in both EPZ counties; a blended growth rate of 11% was used for this Zone. The Shadow Region includes portions of 5 counties; a blended growth rate of 12% was used for this Zone. The Zone specific growth rate was then multiplied by 8/7 in order to compute a growth factor to 2015 from the 2007 population estimate. This growth factor was then applied to each source in the input stream to project evacuating vehicles to 2015. RCOL2_ 13.03-30

RCOL2_ 13.03-30

Table 6-4. Vehicle Estimates By Scenario

Scenarios	Residents with Commuters	Residents without Commuters	Employees	Transients	Shadow	Special Events	School Buses	Transit Buses	External Traffic	Total Scenario Vehicles
1	7,874	11,643	1,330	4,665	3,475	-	18	40	2,550 ~~1,700~~	31,595 ~~30,745~~
2	7,874	11,643	1,330	4,665	3,475	-	18	40	2,550 ~~1,700~~	31,595 ~~30,745~~
3	787	18,730	665	5,362	3,364	-	-	40	2,550 ~~1,700~~	31,498 ~~30,648~~
4	787	18,730	665	5,362	3,364	-	-	40	2,550 ~~1,700~~	31,498 ~~30,648~~
5	787	18,730	139	4,343	3,276	-	-	40	1,530 ~~1,020~~	28,845 ~~28,335~~
6	7,874	11,643	1,385	3,539	3,484	-	174	40	2,550 ~~1,700~~	30,689 ~~29,839~~
7	7,874	11,643	1,385	3,539	3,484	-	174	40	2,550 ~~1,700~~	30,689 ~~29,839~~
8	787	18,730	693	4,075	3,369	-	-	40	2,550 ~~1,700~~	30,244 ~~29,394~~
9	787	18,730	693	4,075	3,369	-	-	40	2,550 ~~1,700~~	30,244 ~~29,394~~
10	787	18,730	139	3,485	3,276	-	-	40	1,530 ~~1,020~~	27,987 ~~27,477~~
11	787	18,730	665	5,362	3,364	1,563	-	40	2,550 ~~1,700~~	33,061 ~~32,211~~
12*	~~9,927~~9,012	~~14,742~~13,350	1,330	4,665	~~4,324~~ 3,936	4,202	18	40	2,550 ~~1,700~~	39,103 ~~40,948~~
13	787	18,730	665	5,362	3,364	8,733	-	40	2,550	41,521

***Permanent Resident population and Shadow population have been extrapolated to the Year 2015, which is when the construction workforce will be at its peak.**

RCOL2_13.03-30

Table 7-1A. Time to Clear the Indicated Area of 50 Percent of The Affected Population (page 1 of 2)

	Summer		Summer		Summer		Winter		Winter		Winter		Summer	Summer	Summer
	Midweek		Weekend		Midweek Weekend		Midweek		Weekend		Midweek Weekend		Weekend	Midweek	Weekend
Scenario:	(1)	(2)	(3)	(4)	(5)	Scenario:	(6)	(7)	(8)	(9)	(10)	Scenario:	(11)	(12)	(13)
Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday	Midday	Midday
	Good Weather	Rain	Good Weather	Rain	Good Weather		Good Weather	Rain	Good Weather	Rain	Good Weather		Event in Amphitheatre	New Plant Construction	Granbury 4th of July
Entire 2-Mile Region, 5-Mile Region, and EPZ															
R01 2-mile ring	0:45	0:45	0:45	0:45	0:45	R01 2-mile ring	0:45	0:45	0:45	0:45	0:45	R01 2-mile ring	0:45	~~0:45~~ 1:10	0:45
R02 5-mile ring	1:00	1:00	0:55	1:00	0:55	R02 5-mile ring	1:00	1:00	0:55	0:55	0:55	R02 5-mile ring	1:05	~~1:05~~ 1:10	0:55
R03 Entire EPZ	1:10	1:15	1:05	1:10	1:05	R03 Entire EPZ	1:10	1:15	1:05	1:10	1:05	R03 Entire EPZ	1:10	~~1:10~~ 1:20	1:25
2-Mile Ring and Downwind to 5 Miles (3 sector groups)															
R04 N	0:55	0:55	0:55	0:55	0:55	R04 N	0:55	0:55	0:55	0:55	0:55	R04 N	0:55	~~0:55~~ 1:10	0:55
R05 NNE	0:55	0:55	0:50	0:55	0:55	R05 NNE	0:55	0:55	0:50	0:55	0:55	R05 NNE	0:50	~~0:50~~ 1:10	0:50
R06 NE	0:55	0:55	0:50	0:55	0:50	R06 NE	0:55	0:55	0:50	0:55	0:55	R06 NE	0:55	~~0:55~~ 1:05	0:50
R07 ENE	0:55	0:55	0:50	0:50	0:50	R07 ENE	0:55	0:55	0:50	0:50	0:50	R07 ENE	0:55	~~0:55~~ 1:05	0:50
R08 E	0:50	0:50	0:50	0:50	0:50	R08 E	0:50	0:55	0:50	0:50	0:50	R08 E	0:55	~~0:55~~ 1:05	0:50
R09 ESE	0:55	1:00	0:55	1:00	0:55	R09 ESE	0:55	0:55	0:55	0:55	0:50	R09 ESE	1:05	~~1:05~~ 1:10	0:55
R10 SE	0:55	1:00	0:55	1:00	0:55	R10 SE	0:55	0:55	0:55	0:55	0:50	R10 SE	1:05	~~1:05~~ 1:10	0:55
R11 SSE, S	0:55	0:55	0:55	0:55	0:50	R11 SSE, S	0:50	0:50	0:50	0:50	0:50	R11 SSE, S	1:00	~~1:00~~ 1:05	0:55
R12 SSW	0:55	0:55	0:55	0:55	0:50	R12 SSW	0:50	0:50	0:50	0:50	0:50	R12 SSW	1:00	~~1:00~~ 1:05	0:55
R13 SW	0:50	0:50	0:50	0:50	0:50	R13 SW	0:50	0:50	0:50	0:50	0:50	R13 SW	0:50	~~0:50~~ 1:10	0:50
R14 WSW	0:55	0:55	0:50	0:55	0:50	R14 WSW	0:55	0:55	0:50	0:55	0:55	R14 WSW	0:50	~~0:50~~ 1:10	0:50
R15 W	0:55	0:55	0:55	0:55	0:55	R15 W	0:55	0:55	0:55	0:55	0:55	R15 W	0:55	~~0:55~~ 1:10	0:55
R16 WNW	0:55	0:55	0:55	0:55	0:55	R16 WNW	0:55	0:55	0:55	0:55	0:55	R16 WNW	0:55	~~0:55~~ 1:10	0:55
R17 NW, NNW	0:55	0:55	0:55	0:55	0:55	R17 NW, NNW	0:55	0:55	0:55	0:55	0:55	R17 NW, NNW	0:55	~~0:55~~ 1:10	0:55
2-Mile Ring and Downwind to EPZ Boundary (3 sector groups)															
R18 N	1:10	1:15	1:05	1:10	1:05	R18 N	1:10	1:15	1:05	1:10	1:05	R18 N	1:05	~~1:05~~ 1:15	1:30
R19 NNE	1:10	1:10	1:05	1:05	1:05	R19 NNE	1:10	1:10	1:05	1:05	1:05	R19 NNE	1:05	~~1:05~~ 1:15	1:25
R20 NE	1:05	1:05	1:00	1:00	1:00	R20 NE	1:05	1:05	1:00	1:00	1:00	R20 NE	1:00	~~1:00~~ 1:10	1:05
R21 ENE	1:00	1:00	0:55	0:55	0:55	R21 ENE	1:00	1:00	0:55	0:55	0:55	R21 ENE	0:55	~~0:55~~ 1:05	0:55
R22 E	1:00	1:00	0:55	0:55	0:55	R22 E	1:00	1:00	0:55	0:55	0:55	R22 E	0:55	~~0:55~~ 1:05	0:55
R23 ESE	1:00	1:00	1:00	1:00	0:55	R23 ESE	1:00	1:00	0:55	1:00	0:55	R23 ESE	1:05	~~1:05~~ 1:10	1:00
R24 SE	1:00	1:00	1:00	1:00	0:55	R24 SE	1:00	1:00	0:55	1:00	0:55	R24 SE	1:05	~~1:05~~ 1:10	1:00
R25 SSE	1:05	1:05	1:00	1:05	1:00	R25 SSE	1:00	1:05	1:00	1:00	0:55	R25 SSE	1:05	~~1:05~~ 1:15	1:00
R26 S	1:00	1:05	1:00	1:05	0:55	R26 S	0:55	1:00	0:55	1:00	0:50	R26 S	1:05	~~1:05~~ 1:15	1:00
R27 SSW	1:00	1:00	1:00	1:00	0:55	R27 SSW	0:55	1:00	0:55	1:00	0:50	R27 SSW	1:05	~~1:05~~ 1:10	1:00
R28 SW	0:55	1:00	0:55	0:55	0:55	R28 SW	0:55	1:00	0:55	0:55	0:55	R28 SW	0:55	~~0:55~~ 1:15	0:55
R29 WSW	1:00	1:00	0:55	0:55	0:55	R29 WSW	1:00	1:00	0:55	0:55	0:55	R29 WSW	0:55	~~0:55~~ 1:15	0:55
R30 W	1:05	1:05	1:00	1:00	1:00	R30 W	1:05	1:05	1:00	1:00	1:00	R30 W	1:00	~~1:00~~ 1:15	1:05
R31 WNW	1:05	1:05	1:00	1:00	1:00	R31 WNW	1:05	1:05	1:00	1:00	1:00	R31 WNW	1:00	~~1:00~~ 1:15	1:05
R32 NW	1:05	1:05	1:00	1:00	1:00	R32 NW	1:05	1:05	1:00	1:00	1:00	R32 NW	1:00	~~1:00~~ 1:15	1:05
R33 NNW	1:10	1:15	1:05	1:10	1:05	R33 NNW	1:10	1:15	1:05	1:10	1:05	R33 NNW	1:05	~~1:05~~ 1:15	1:35

RCOL2_13.03-30

Table 7-1A. Time to Clear the Indicated Area of 50 Percent of The Affected Population (page 2 of 2)

	Summer		Summer		Summer		Winter		Winter		Winter		Summer	Summer	Summer
	Midweek		Weekend		Midweek Weekend		Midweek		Weekend		Midweek Weekend		Weekend	Midweek	Weekend
Scenario:	(1)	(2)	(3)	(4)	(5)	Scenario:	(6)	(7)	(8)	(9)	(10)	Scenario:	(11)	(12)	(13)
Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday	Midday	Midday
	Good Weather	Rain	Good Weather	Rain	Good Weather		Good Weather	Rain	Good Weather	Rain	Good Weather		Event in Amphitheatre	New Plant Construction	Granbury 4th of July
2-Mile Ring and Downwind to 5 Miles (5 sector groups)															
R34 N	1:00	1:00	0:55	0:55	0:55	R34 N	1:00	1:00	0:55	0:55	0:55	R34 N	0:55	~~0:55~~ 1:10	0:55
R35 NNE	0:55	1:00	0:55	0:55	0:55	R35 NNE	0:55	1:00	0:55	0:55	0:55	R35 NNE	0:55	~~0:55~~ 1:10	0:55
R36 NE	0:55	0:55	0:50	0:55	0:50	R36 NE	0:55	0:55	0:50	0:55	0:55	R36 NE	0:55	~~0:55~~ 1:05	0:50
R37 ENE	0:55	0:55	0:55	0:55	0:50	R37 ENE	0:55	0:55	0:50	0:55	0:50	R37 ENE	0:55	~~0:55~~ 1:05	0:55
R38 E	0:55	1:00	0:55	1:00	0:55	R38 E	0:55	0:55	0:55	0:55	0:50	R38 E	1:05	~~1:05~~ 1:10	0:55
R39 ESE	0:55	0:55	0:55	1:00	0:55	R39 ESE	0:55	0:55	0:50	0:55	0:50	R39 ESE	1:05	~~1:05~~ 1:10	0:55
R40 SE	0:55	0:55	0:55	1:00	0:55	R40 SE	0:55	0:55	0:50	0:55	0:50	R40 SE	1:05	~~1:05~~ 1:10	0:55
R41 SSE, S	0:55	0:55	0:50	0:55	0:50	R41 SSE, S	0:50	0:55	0:50	0:50	0:50	R41 SSE, S	1:00	~~1:00~~ 1:05	0:50
R42 SSW	0:55	0:55	0:55	0:55	0:50	R42 SSW	0:55	0:55	0:50	0:50	0:50	R42 SSW	1:00	~~1:00~~ 1:05	0:55
R43 SW	0:55	0:55	0:55	0:55	0:50	R43 SW	0:55	0:55	0:50	0:55	0:50	R43 SW	1:00	~~1:00~~ 1:05	0:55
R44 WSW	0:55	0:55	0:50	0:55	0:50	R44 WSW	0:55	0:55	0:50	0:55	0:55	R44 WSW	0:50	~~0:50~~ 1:10	0:50
R45 W	1:00	1:00	0:55	0:55	0:55	R45 W	1:00	1:00	0:55	0:55	0:55	R45 W	0:55	~~0:55~~ 1:15	0:55
R46 WNW	1:00	1:00	0:55	0:55	0:55	R46 WNW	1:00	1:00	0:55	0:55	0:55	R46 WNW	0:55	~~0:55~~ 1:15	0:55
R47 NW, NNW	0:55	1:00	0:55	0:55	0:55	R47 NW, NNW	0:55	1:00	0:55	0:55	0:55	R47 NW, NNW	0:55	~~0:55~~ 1:10	0:55
2-Mile Ring and Downwind to EPZ Boundary (5 sector groups)															
R48 N	1:10	1:15	1:05	1:10	1:05	R48 N	1:10	1:15	1:05	1:10	1:05	R48 N	1:05	~~1:05~~ 1:15	1:30
R49 NNE	1:05	1:10	1:05	1:05	1:05	R49 NNE	1:10	1:10	1:05	1:05	1:05	R49 NNE	1:05	~~1:05~~ 1:15	1:25
R50 NE	1:05	1:10	1:00	1:05	1:00	R50 NE	1:05	1:10	1:00	1:05	1:00	R50 NE	1:05	~~1:05~~ 1:15	1:20
R51 ENE	1:05	1:05	1:00	1:00	1:00	R51 ENE	1:05	1:05	1:00	1:00	1:00	R51 ENE	1:00	~~1:00~~ 1:10	1:05
R52 E	1:00	1:05	1:00	1:00	0:55	R52 E	1:00	1:00	0:55	1:00	0:55	R52 E	1:00	~~1:00~~ 1:10	1:00
R53 ESE	1:00	1:05	1:00	1:00	0:55	R53 ESE	1:00	1:00	0:55	1:00	0:55	R53 ESE	1:00	~~1:00~~ 1:10	1:00
R54 SE	1:05	1:05	1:00	1:05	1:00	R54 SE	1:00	1:05	1:00	1:00	0:55	R54 SE	1:05	~~1:05~~ 1:15	1:00
R55 SSE	1:05	1:05	1:00	1:05	1:00	R55 SSE	1:00	1:05	1:00	1:00	0:55	R55 SSE	1:05	~~1:05~~ 1:15	1:00
R56 S	1:00	1:05	1:00	1:05	0:55	R56 S	1:00	1:00	0:55	1:00	0:55	R56 S	1:10	~~1:10~~ 1:15	1:00
R57 SSW	1:00	1:05	1:00	1:05	0:55	R57 SSW	1:00	1:00	0:55	1:00	0:55	R57 SSW	1:05	~~1:05~~ 1:15	1:00
R58 SW	1:00	1:05	1:00	1:00	0:55	R58 SW	1:00	1:00	0:55	1:00	0:55	R58 SW	1:05	~~1:05~~ 1:15	1:00
R59 WSW	1:00	1:05	1:00	1:00	0:55	R59 WSW	1:00	1:05	0:55	1:00	0:55	R59 WSW	1:00	~~1:00~~ 1:15	1:00
R60 W	1:05	1:05	1:00	1:00	1:00	R60 W	1:05	1:05	1:00	1:00	1:00	R60 W	1:00	~~1:00~~ 1:15	1:00
R61 WNW	1:05	1:05	1:00	1:00	1:00	R61 WNW	1:05	1:10	1:00	1:00	1:00	R61 WNW	1:00	~~1:00~~ 1:15	1:05
R62 NW	1:10	1:15	1:05	1:10	1:05	R62 NW	1:10	1:15	1:05	1:10	1:05	R62 NW	1:05	~~1:05~~ 1:20	1:35
R63 NNW	1:10	1:15	1:05	1:10	1:05	R63 NNW	1:10	1:15	1:05	1:10	1:05	R63 NNW	1:05	~~1:05~~ 1:15	1:30

RCOL2_13.03-30

Table 7-1B. Time to Clear the Indicated Area of 90 Percent of The Affected Population (page 1 of 2)

	Summer		Summer		Summer		Winter		Winter		Winter		Summer	Summer	Summer
	Midweek		Weekend		Midweek Weekend		Midweek		Weekend		Midweek Weekend		Weekend	Midweek	Weekend
Scenario:	(1)	(2)	(3)	(4)	(5)	Scenario:	(6)	(7)	(8)	(9)	(10)	Scenario:	(11)	(12)	(13)
Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday	Midday	Midday
	Good Weather	Rain	Good Weather	Rain	Good Weather		Good Weather	Rain	Good Weather	Rain	Good Weather		Event in Amphitheatre	New Plant Construction	Granbury 4th of July
Entire 2-Mile Region, 5-Mile Region, and EPZ															
R01 2-mile ring	1:25	1:25	1:20	1:20	1:25	R01 2-mile ring	1:25	1:25	1:20	1:20	1:25	R01 2-mile ring	1:20	2:05	1:20
R02 5-mile ring	1:50	1:50	1:40	1:50	1:35	R02 5-mile ring	1:50	1:50	1:35	1:40	1:30	R02 5-mile ring	2:20	~~2:15~~ 2:10	1:40
R03 Entire EPZ	2:10	2:15	2:00	2:05	1:55	R03 Entire EPZ	2:10	2:20	1:55	2:00	1:55	R03 Entire EPZ	2:10	~~2:30~~ 2:25	2:50
2-Mile Ring and Downwind to 5 Miles (3 sector groups)															
R04 N	1:50	1:50	1:30	1:35	1:35	R04 N	1:50	1:50	1:30	1:35	1:35	R04 N	1:30	2:05	1:30
R05 NNE	1:50	1:50	1:30	1:30	1:30	R05 NNE	1:50	1:50	1:30	1:30	1:30	R05 NNE	1:30	2:05	1:30
R06 NE	1:50	1:50	1:30	1:30	1:30	R06 NE	1:50	1:50	1:30	1:30	1:30	R06 NE	1:35	2:05	1:30
R07 ENE	1:40	1:40	1:30	1:30	1:30	R07 ENE	1:40	1:40	1:30	1:30	1:30	R07 ENE	1:35	2:05	1:30
R08 E	1:40	1:40	1:30	1:30	1:30	R08 E	1:40	1:40	1:30	1:30	1:30	R08 E	1:35	2:05	1:30
R09 ESE	1:45	1:50	1:45	1:50	1:35	R09 ESE	1:40	1:40	1:35	1:40	1:30	R09 ESE	2:20	~~2:10~~ 2:05	1:45
R10 SE	1:45	1:50	1:40	1:50	1:35	R10 SE	1:40	1:40	1:35	1:40	1:30	R10 SE	2:20	~~2:10~~ 2:05	1:40
R11 SSE, S	1:40	1:40	1:35	1:40	1:30	R11 SSE, S	1:40	1:40	1:25	1:30	1:25	R11 SSE, S	2:20	2:05	1:35
R12 SSW	1:40	1:40	1:35	1:40	1:30	R12 SSW	1:40	1:40	1:25	1:30	1:25	R12 SSW	2:20	2:05	1:35
R13 SW	1:30	1:30	1:25	1:25	1:25	R13 SW	1:30	1:30	1:25	1:25	1:25	R13 SW	1:25	2:10	1:25
R14 WSW	1:40	1:40	1:30	1:30	1:30	R14 WSW	1:40	1:40	1:30	1:30	1:30	R14 WSW	1:30	2:10	1:30
R15 W	1:40	1:40	1:30	1:30	1:30	R15 W	1:40	1:40	1:30	1:30	1:30	R15 W	1:30	2:10	1:30
R16 WNW	1:40	1:40	1:30	1:30	1:30	R16 WNW	1:40	1:40	1:30	1:30	1:30	R16 WNW	1:30	2:10	1:30
R17 NW, NNW	1:40	1:40	1:30	1:30	1:30	R17 NW, NNW	1:40	1:40	1:30	1:30	1:30	R17 NW, NNW	1:30	2:05	1:30
2-Mile Ring and Downwind to EPZ Boundary (3 sector groups)															
R18 N	2:10	2:20	1:55	2:00	1:55	R18 N	2:20	2:20	1:55	2:00	1:55	R18 N	1:55	~~2:25~~ 2:15	3:00
R19 NNE	2:10	2:20	1:55	2:00	1:55	R19 NNE	2:10	2:20	1:55	2:00	1:55	R19 NNE	1:55	~~2:20~~ 2:15	2:50
R20 NE	2:10	2:10	1:50	1:55	1:50	R20 NE	2:10	2:10	1:50	1:55	1:50	R20 NE	1:50	~~2:15~~ 2:10	2:10
R21 ENE	2:00	2:00	1:35	1:35	1:35	R21 ENE	2:00	2:00	1:35	1:40	1:35	R21 ENE	1:40	2:05	1:35
R22 E	2:00	2:00	1:35	1:35	1:35	R22 E	2:00	2:00	1:35	1:35	1:35	R22 E	1:40	2:05	1:35
R23 ESE	1:50	1:55	1:45	1:50	1:40	R23 ESE	1:50	1:50	1:35	1:40	1:35	R23 ESE	2:20	2:10	1:45
R24 SE	1:50	1:55	1:45	1:50	1:40	R24 SE	1:50	1:50	1:35	1:40	1:35	R24 SE	2:20	2:10	1:45
R25 SSE	1:50	1:55	1:45	1:55	1:35	R25 SSE	1:50	1:50	1:35	1:45	1:35	R25 SSE	2:20	~~2:20~~ 2:15	1:45
R26 S	1:45	1:55	1:45	1:55	1:35	R26 S	1:50	1:50	1:35	1:40	1:30	R26 S	2:10	2:15	1:45
R27 SSW	1:45	1:50	1:45	1:50	1:35	R27 SSW	1:45	1:50	1:35	1:40	1:30	R27 SSW	2:20	2:20	1:45
R28 SW	1:40	1:40	1:35	1:35	1:30	R28 SW	1:40	1:45	1:30	1:35	1:30	R28 SW	1:35	~~2:20~~ 2:15	1:35
R29 WSW	1:50	1:50	1:35	1:35	1:35	R29 WSW	1:50	1:50	1:35	1:35	1:35	R29 WSW	1:35	2:15	1:35
R30 W	2:00	2:10	1:40	1:40	1:40	R30 W	2:10	2:10	1:40	1:40	1:40	R30 W	1:40	2:10	1:55
R31 WNW	2:10	2:10	1:40	1:40	1:40	R31 WNW	2:10	2:10	1:40	1:40	1:40	R31 WNW	1:40	2:15	2:00
R32 NW	2:10	2:10	1:40	1:40	1:40	R32 NW	2:10	2:10	1:40	1:40	1:40	R32 NW	1:40	2:15	2:00
R33 NNW	2:10	2:20	1:55	2:05	2:00	R33 NNW	2:10	2:20	1:55	2:05	2:00	R33 NNW	1:55	~~2:25~~ 2:15	3:00

RCOL2_13.03-30

Table 7-1B. Time to Clear the Indicated Area of 90 Percent of The Affected Population (page 2 of 2)

	Summer		Summer		Summer		Winter		Winter		Winter		Summer	Summer	Summer
	Midweek		Weekend		Midweek Weekend		Midweek		Weekend		Midweek Weekend		Weekend	Midweek	Weekend
Scenario:	(1)	(2)	(3)	(4)	(5)	Scenario:	(6)	(7)	(8)	(9)	(10)	Scenario:	(11)	(12)	(13)
Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday	Midday	Midday
	Good Weather	Rain	Good Weather	Rain	Good Weather		Good Weather	Rain	Good Weather	Rain	Good Weather		Event in Amphitheatre	New Plant Construction	Granbury 4th of July
2-Mile Ring and Downwind to 5 Miles (5 sector groups)															
R34 N	1:50	1:50	1:35	1:35	1:35	R34 N	1:50	1:50	1:35	1:35	1:35	R34 N	1:35	2:05	1:35
R35 NNE	1:50	1:50	1:30	1:35	1:35	R35 NNE	1:50	1:50	1:30	1:35	1:35	R35 NNE	1:35	2:05	1:30
R36 NE	1:50	1:50	1:30	1:30	1:30	R36 NE	1:50	1:50	1:30	1:30	1:30	R36 NE	1:35	2:05	1:30
R37 ENE	1:40	1:50	1:35	1:35	1:30	R37 ENE	1:50	1:50	1:30	1:30	1:30	R37 ENE	1:40	~~2:10~~ 2:05	1:35
R38 E	1:45	1:50	1:45	1:50	1:35	R38 E	1:40	1:40	1:35	1:40	1:30	R38 E	2:20	~~2:10~~ 2:05	1:45
R39 ESE	1:45	1:50	1:40	1:50	1:35	R39 ESE	1:40	1:40	1:35	1:40	1:30	R39 ESE	2:20	~~2:10~~ 2:05	1:40
R40 SE	1:40	1:50	1:40	1:45	1:35	R40 SE	1:40	1:40	1:30	1:40	1:30	R40 SE	2:20	~~2:10~~ 2:05	1:40
R41 SSE, S	1:40	1:40	1:35	1:40	1:30	R41 SSE, S	1:40	1:40	1:25	1:30	1:25	R41 SSE, S	2:20	2:05	1:35
R42 SSW	1:40	1:40	1:35	1:40	1:30	R42 SSW	1:40	1:40	1:30	1:30	1:30	R42 SSW	2:20	~~2:10~~ 2:05	1:35
R43 SW	1:40	1:45	1:35	1:40	1:30	R43 SW	1:40	1:40	1:30	1:30	1:30	R43 SW	2:10	~~2:10~~ 2:05	1:35
R44 WSW	1:40	1:40	1:30	1:30	1:30	R44 WSW	1:40	1:40	1:30	1:30	1:30	R44 WSW	1:30	2:10	1:30
R45 W	1:50	1:50	1:35	1:35	1:35	R45 W	1:50	1:50	1:35	1:35	1:35	R45 W	1:35	2:10	1:35
R46 WNW	1:50	1:50	1:35	1:35	1:35	R46 WNW	1:50	1:50	1:35	1:35	1:35	R46 WNW	1:35	2:10	1:35
R47 NW, NNW	1:50	1:50	1:30	1:35	1:35	R47 NW, NNW	1:50	1:50	1:30	1:35	1:35	R47 NW, NNW	1:30	2:05	1:30
2-Mile Ring and Downwind to EPZ Boundary (5 sector groups)															
R48 N	2:20	2:20	2:00	2:05	1:55	R48 N	2:20	2:20	2:00	2:05	1:55	R48 N	2:00	2:20	3:00
R49 NNE	2:10	2:20	1:55	2:00	1:55	R49 NNE	2:10	2:20	1:55	2:00	1:55	R49 NNE	1:55	~~2:20~~ 2:15	3:00
R50 NE	2:10	2:10	1:50	2:00	1:50	R50 NE	2:10	2:15	1:50	2:00	1:50	R50 NE	1:50	~~2:20~~ 2:15	2:50
R51 ENE	2:10	2:10	1:50	2:00	1:50	R51 ENE	2:10	2:10	1:50	2:00	1:50	R51 ENE	1:50	~~2:15~~ 2:10	2:10
R52 E	2:00	2:00	1:45	1:50	1:40	R52 E	2:00	2:00	1:40	1:40	1:35	R52 E	2:10	2:10	1:45
R53 ESE	2:00	2:00	1:45	1:50	1:40	R53 ESE	2:00	2:00	1:40	1:40	1:35	R53 ESE	2:10	2:10	1:45
R54 SE	1:55	2:00	1:50	2:00	1:40	R54 SE	1:50	1:55	1:40	1:45	1:35	R54 SE	2:20	~~2:20~~ 2:15	1:50
R55 SSE	1:55	2:00	1:50	2:00	1:40	R55 SSE	1:50	1:50	1:40	1:45	1:35	R55 SSE	2:20	~~2:20~~ 2:15	1:50
R56 S	1:50	1:55	1:45	1:55	1:35	R56 S	1:50	1:50	1:35	1:45	1:30	R56 S	2:25	2:15	1:45
R57 SSW	1:50	1:55	1:45	1:55	1:35	R57 SSW	1:50	1:50	1:35	1:40	1:30	R57 SSW	2:10	2:20	1:45
R58 SW	1:50	1:55	1:45	1:50	1:35	R58 SW	1:50	1:50	1:35	1:40	1:30	R58 SW	2:10	2:20	1:45
R59 WSW	2:00	2:00	1:40	1:40	1:40	R59 WSW	2:00	2:00	1:40	1:40	1:40	R59 WSW	1:40	~~2:20~~ 2:15	1:50
R60 W	2:00	2:00	1:40	1:40	1:40	R60 W	2:00	2:00	1:40	1:40	1:40	R60 W	1:40	2:15	1:55
R61 WNW	2:10	2:10	1:40	1:40	1:40	R61 WNW	2:10	2:10	1:40	1:40	1:40	R61 WNW	1:40	2:15	2:00
R62 NW	2:10	2:20	2:00	2:05	2:00	R62 NW	2:20	2:20	2:00	2:05	2:00	R62 NW	2:00	~~2:25~~ 2:20	3:00
R63 NNW	2:20	2:20	2:00	2:05	1:55	R63 NNW	2:20	2:20	2:00	2:05	1:55	R63 NNW	2:00	~~2:25~~ 2:20	3:00

RCOL2_13.03-30

Table 7-1C. Time to Clear the Indicated Area of 95 Percent of The Affected Population (page 1 of 2)

	Summer		Summer		Summer		Winter		Winter		Winter		Summer	Summer	Summer
	Midweek		Weekend		Midweek Weekend		Midweek		Weekend		Midweek Weekend		Weekend	Midweek	Weekend
Scenario:	(1)	(2)	(3)	(4)	(5)	Scenario:	(6)	(7)	(8)	(9)	(10)	Scenario:	(11)	(12)	(13)
Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday	Midday	Midday
	Good Weather	Rain	Good Weather	Rain	Good Weather		Good Weather	Rain	Good Weather	Rain	Good Weather		Event in Amphitheatre	New Plant Construction	Granbury 4th of July
Entire 2-Mile Region, 5-Mile Region, and EPZ															
R01 2-mile ring	1:40	1:40	1:30	1:30	1:30	R01 2-mile ring	1:40	1:40	1:30	1:30	1:30	R01 2-mile ring	1:30	2:15	1:30
R02 5-mile ring	2:20	2:20	2:10	2:10	2:00	R02 5-mile ring	2:20	2:20	1:50	1:50	1:50	R02 5-mile ring	2:40	~~2:25~~ 2:20	1:50
R03 Entire EPZ	2:50	2:50	2:10	2:20	2:10	R03 Entire EPZ	2:40	2:40	2:10	2:20	2:10	R03 Entire EPZ	2:30	~~2:45~~ 2:40	3:10
2-Mile Ring and Downwind to 5 Miles (3 sector groups)															
R04 N	2:20	2:20	1:50	1:50	2:00	R04 N	2:20	2:20	1:50	1:50	2:00	R04 N	1:50	2:15	1:50
R05 NNE	2:20	2:20	1:50	1:50	1:50	R05 NNE	2:20	2:20	1:50	1:50	1:50	R05 NNE	1:50	2:15	1:50
R06 NE	2:10	2:10	1:50	1:50	1:50	R06 NE	2:10	2:10	1:50	1:50	1:50	R06 NE	1:45	2:15	1:50
R07 ENE	2:10	2:10	1:40	1:50	1:50	R07 ENE	2:10	2:10	1:50	1:50	1:50	R07 ENE	1:45	2:15	1:40
R08 E	2:00	2:00	1:40	1:40	1:50	R08 E	2:00	2:00	1:40	1:40	1:50	R08 E	1:45	2:15	1:40
R09 ESE	2:00	2:00	1:55	2:00	1:45	R09 ESE	2:10	2:10	1:40	1:50	1:50	R09 ESE	2:50	~~2:20~~ 2:15	1:55
R10 SE	2:00	2:00	1:50	2:00	1:40	R10 SE	2:10	2:10	1:40	1:50	1:50	R10 SE	2:50	2:15	1:50
R11 SSE, S	1:50	2:00	1:45	1:50	1:40	R11 SSE, S	2:00	2:00	1:40	1:40	1:40	R11 SSE, S	2:40	2:15	1:45
R12 SSW	2:00	2:00	1:45	1:50	1:40	R12 SSW	2:00	2:00	1:40	1:40	1:40	R12 SSW	2:40	2:15	1:45
R13 SW	1:50	2:00	1:40	1:40	1:40	R13 SW	1:50	2:00	1:40	1:40	1:40	R13 SW	1:40	2:15	1:40
R14 WSW	2:10	2:10	1:40	1:40	1:50	R14 WSW	2:10	2:10	1:40	1:40	1:50	R14 WSW	1:40	2:20	1:40
R15 W	2:10	2:10	1:40	1:40	1:50	R15 W	2:10	2:10	1:40	1:40	1:50	R15 W	1:40	2:15	1:40
R16 WNW	2:10	2:10	1:40	1:40	1:50	R16 WNW	2:10	2:10	1:40	1:40	1:50	R16 WNW	1:40	2:15	1:40
R17 NW, NNW	2:10	2:10	1:40	1:40	1:50	R17 NW, NNW	2:10	2:10	1:40	1:40	1:50	R17 NW, NNW	1:40	2:15	1:40
2-Mile Ring and Downwind to EPZ Boundary (3 sector groups)															
R18 N	2:50	2:50	2:10	2:20	2:10	R18 N	2:50	2:50	2:10	2:20	2:10	R18 N	2:10	2:40	3:15
R19 NNE	2:50	2:50	2:10	2:20	2:10	R19 NNE	2:50	2:50	2:10	2:20	2:10	R19 NNE	2:10	2:40	3:10
R20 NE	2:40	2:40	2:10	2:10	2:10	R20 NE	2:40	2:40	2:10	2:10	2:10	R20 NE	2:10	~~2:40~~ 2:30	2:20
R21 ENE	2:30	2:30	1:50	1:50	2:00	R21 ENE	2:30	2:30	1:50	2:00	2:00	R21 ENE	1:50	2:20	1:50
R22 E	2:30	2:30	1:50	1:50	2:00	R22 E	2:30	2:30	1:50	1:50	2:00	R22 E	1:50	2:20	1:50
R23 ESE	2:10	2:10	2:00	2:10	1:50	R23 ESE	2:10	2:10	1:50	1:55	1:50	R23 ESE	2:40	2:20	2:00
R24 SE	2:10	2:10	2:00	2:10	1:50	R24 SE	2:10	2:20	1:50	1:55	1:50	R24 SE	2:40	2:20	2:00
R25 SSE	2:10	2:10	1:55	2:05	1:50	R25 SSE	2:10	2:10	1:50	1:55	1:50	R25 SSE	2:40	~~2:35~~ 2:30	1:55
R26 S	2:10	2:10	1:55	2:00	1:50	R26 S	2:10	2:10	1:50	1:50	1:50	R26 S	2:40	~~2:35~~ 2:30	1:55
R27 SSW	2:00	2:05	1:50	2:00	1:50	R27 SSW	2:10	2:10	1:50	1:50	1:50	R27 SSW	2:40	2:40	1:50
R28 SW	2:00	2:00	1:40	1:45	1:40	R28 SW	2:00	2:00	1:40	1:40	1:40	R28 SW	1:40	~~2:30~~ 2:25	1:40
R29 WSW	2:10	2:10	1:50	1:50	1:50	R29 WSW	2:20	2:20	1:50	1:50	1:50	R29 WSW	1:50	2:25	1:50
R30 W	2:40	2:40	2:00	2:00	2:10	R30 W	2:40	2:40	2:00	2:00	2:10	R30 W	2:00	2:25	2:10
R31 WNW	2:40	2:40	2:00	2:00	2:10	R31 WNW	2:40	2:40	2:00	2:00	2:10	R31 WNW	2:00	~~2:30~~ 2:25	2:10
R32 NW	2:40	2:40	2:10	2:10	2:10	R32 NW	2:40	2:50	2:10	2:10	2:10	R32 NW	2:10	2:30	2:15
R33 NNW	2:40	2:50	2:10	2:20	2:10	R33 NNW	2:50	2:50	2:10	2:20	2:10	R33 NNW	2:10	2:40	3:20

RCOL2_13.03-30

Table 7-1C. Time to Clear the Indicated Area of 95 Percent of The Affected Population (page 2 of 2)

	Summer		Summer		Summer		Winter		Winter		Winter		Summer	Summer	Summer
	Midweek		Weekend		Midweek Weekend		Midweek		Weekend		Midweek Weekend		Weekend	Midweek	Weekend
Scenario:	(1)	(2)	(3)	(4)	(5)	Scenario:	(6)	(7)	(8)	(9)	(10)	Scenario:	(11)	(12)	(13)
Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday	Midday	Midday
	Good Weather	Rain	Good Weather	Rain	Good Weather		Good Weather	Rain	Good Weather	Rain	Good Weather		Event in Amphitheatre	New Plant Construction	Granbury 4th of July
2-Mile Ring and Downwind to 5 Miles (5 sector groups)															
R34 N	2:20	2:20	1:50	1:50	2:00	R34 N	2:20	2:20	1:50	1:50	2:00	R34 N	1:50	2:15	1:50
R35 NNE	2:20	2:20	1:50	1:50	1:50	R35 NNE	2:20	2:20	1:50	1:50	1:50	R35 NNE	1:50	2:15	1:50
R36 NE	2:10	2:10	1:50	1:50	1:50	R36 NE	2:10	2:20	1:50	1:50	1:50	R36 NE	1:45	2:15	1:50
R37 ENE	2:10	2:10	1:40	1:50	1:50	R37 ENE	2:20	2:20	1:40	1:50	1:50	R37 ENE	2:10	2:20	1:40
R38 E	2:00	2:00	1:55	2:00	1:50	R38 E	2:10	2:10	1:40	1:50	1:50	R38 E	2:50	~~2:20~~ 2:15	1:55
R39 ESE	2:00	2:00	1:50	2:00	1:45	R39 ESE	2:10	2:10	1:40	1:50	1:40	R39 ESE	2:40	~~2:20~~ 2:15	1:50
R40 SE	2:00	2:00	1:50	1:55	1:40	R40 SE	2:00	2:00	1:40	1:50	1:40	R40 SE	2:50	2:15	1:50
R41 SSE, S	2:00	2:00	1:45	1:50	1:40	R41 SSE, S	2:00	2:00	1:40	1:40	1:40	R41 SSE, S	2:40	2:15	1:45
R42 SSW	2:00	2:00	1:50	1:50	1:40	R42 SSW	2:00	2:10	1:40	1:40	1:40	R42 SSW	2:40	2:20	1:50
R43 SW	2:10	2:10	1:50	1:50	1:40	R43 SW	2:10	2:10	1:40	1:40	1:50	R43 SW	2:40	2:20	1:50
R44 WSW	2:10	2:10	1:40	1:40	1:50	R44 WSW	2:10	2:10	1:40	1:40	1:50	R44 WSW	1:40	2:20	1:40
R45 W	2:20	2:20	1:50	1:50	2:00	R45 W	2:20	2:20	1:50	1:50	2:00	R45 W	1:50	2:20	1:50
R46 WNW	2:20	2:20	1:50	1:50	2:00	R46 WNW	2:20	2:20	1:50	1:50	2:00	R46 WNW	1:50	2:20	1:50
R47 NW, NNW	2:20	2:20	1:50	1:50	2:00	R47 NW, NNW	2:20	2:20	1:50	1:50	2:00	R47 NW, NNW	1:50	2:15	1:50
2-Mile Ring and Downwind to EPZ Boundary (5 sector groups)															
R48 N	2:50	2:50	2:10	2:20	2:10	R48 N	2:50	2:50	2:10	2:20	2:10	R48 N	2:10	2:40	3:20
R49 NNE	2:40	2:40	2:10	2:20	2:10	R49 NNE	2:40	2:50	2:10	2:20	2:10	R49 NNE	2:10	2:40	3:20
R50 NE	2:40	2:40	2:10	2:20	2:10	R50 NE	2:40	2:40	2:10	2:20	2:10	R50 NE	2:10	~~2:40~~ 2:30	3:10
R51 ENE	2:40	2:40	2:10	2:20	2:10	R51 ENE	2:40	2:40	2:10	2:20	2:10	R51 ENE	2:10	~~2:40~~ 2:30	2:30
R52 E	2:30	2:30	2:00	2:10	1:50	R52 E	2:30	2:30	1:50	1:55	1:50	R52 E	2:40	~~2:25~~ 2:20	2:00
R53 ESE	2:20	2:20	2:00	2:00	1:50	R53 ESE	2:30	2:30	1:50	1:55	1:50	R53 ESE	2:40	~~2:25~~ 2:20	2:00
R54 SE	2:10	2:10	2:00	2:10	1:50	R54 SE	2:20	2:20	1:50	1:55	1:50	R54 SE	2:40	~~2:35~~ 2:30	2:00
R55 SSE	2:10	2:10	2:00	2:10	1:50	R55 SSE	2:20	2:20	1:50	1:55	1:50	R55 SSE	2:40	~~2:35~~ 2:30	2:00
R56 S	2:00	2:10	1:55	2:05	1:50	R56 S	2:10	2:10	1:50	1:50	1:50	R56 S	2:50	2:30	1:55
R57 SSW	2:10	2:10	1:55	2:00	1:50	R57 SSW	2:20	2:20	1:50	1:50	1:50	R57 SSW	2:40	~~2:40~~ 2:35	1:55
R58 SW	2:10	2:20	1:50	2:00	1:50	R58 SW	2:20	2:20	1:50	1:50	1:50	R58 SW	2:40	2:40	1:50
R59 WSW	2:30	2:30	1:50	2:00	2:00	R59 WSW	2:30	2:30	2:00	2:00	2:00	R59 WSW	1:50	2:30	2:05
R60 W	2:30	2:30	2:00	2:00	2:00	R60 W	2:30	2:30	2:00	2:00	2:00	R60 W	2:00	~~2:30~~ 2:25	2:10
R61 WNW	2:40	2:40	2:00	2:10	2:10	R61 WNW	2:40	2:40	2:00	2:10	2:10	R61 WNW	2:00	2:30	2:10
R62 NW	2:50	2:50	2:10	2:20	2:10	R62 NW	2:50	2:50	2:10	2:20	2:10	R62 NW	2:10	2:40	3:20
R63 NNW	2:50	2:50	2:10	2:20	2:10	R63 NNW	2:50	2:50	2:10	2:20	2:10	R63 NNW	2:10	2:40	3:20

RCOL2_13.03-30

Table 7-1D. Time to Clear the Indicated Area of 100 Percent of The Affected Population (page 1 of 2)

	Summer		Summer		Summer		Winter		Winter		Winter		Summer	Summer	Summer
	Midweek		Weekend		Midweek Weekend		Midweek		Weekend		Midweek Weekend		Weekend	Midweek	Weekend
Scenario:	(1)	(2)	(3)	(4)	(5)	Scenario:	(6)	(7)	(8)	(9)	(10)	Scenario:	(11)	(12)	(13)
Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday	Midday	Midday
	Good Weather	Rain	Good Weather	Rain	Good Weather		Good Weather	Rain	Good Weather	Rain	Good Weather		Event in Amphitheatre	New Plant Construction	Granbury 4th of July
Entire 2-Mile Region, 5-Mile Region, and EPZ															
R01 2-mile ring	3:50	3:50	2:50	3:00	3:00	R01 2-mile ring	3:50	3:50	2:50	2:50	3:00	R01 2-mile ring	2:50	~~3:40~~ 3:50	2:50
R02 5-mile ring	4:10	4:10	3:10	3:10	3:10	R02 5-mile ring	4:10	4:10	3:10	3:10	3:10	R02 5-mile ring	3:10	4:10	3:10
R03 Entire EPZ	4:20	4:20	4:00	4:00	4:00	R03 Entire EPZ	4:20	4:20	4:00	4:00	4:00	R03 Entire EPZ	4:00	4:20	4:00
2-Mile Ring and Downwind to 5 Miles (3 sector groups)															
R04 N	4:10	4:10	3:10	3:10	3:00	R04 N	4:00	4:10	3:10	3:10	3:10	R04 N	3:10	4:10	3:10
R05 NNE	4:00	4:10	3:00	3:00	3:10	R05 NNE	4:00	4:10	3:00	3:10	3:00	R05 NNE	3:00	4:00	3:00
R06 NE	4:00	4:00	3:00	3:00	3:10	R06 NE	4:00	4:10	3:10	3:10	3:10	R06 NE	3:00	4:00	3:00
R07 ENE	4:00	4:00	3:00	3:00	3:00	R07 ENE	4:00	4:00	3:00	3:00	3:00	R07 ENE	3:00	4:00	3:00
R08 E	4:00	4:00	3:00	3:00	3:00	R08 E	4:00	4:00	3:00	3:00	3:00	R08 E	3:00	4:00	3:00
R09 ESE	4:00	4:00	3:00	3:00	3:00	R09 ESE	4:00	4:00	3:00	3:00	3:00	R09 ESE	3:00	4:00	3:00
R10 SE	4:00	4:00	3:00	3:00	3:00	R10 SE	4:00	4:00	3:00	3:00	3:00	R10 SE	3:00	4:00	3:00
R11 SSE, S	4:00	4:00	3:00	3:00	3:00	R11 SSE, S	4:00	4:00	2:50	3:00	3:00	R11 SSE, S	3:00	4:00	3:00
R12 SSW	4:00	4:00	3:00	3:00	3:00	R12 SSW	4:00	4:00	2:50	3:00	3:00	R12 SSW	3:00	4:00	3:00
R13 SW	4:00	4:00	3:00	3:10	3:00	R13 SW	4:00	4:00	3:10	3:10	3:00	R13 SW	3:00	4:00	3:00
R14 WSW	4:10	4:10	3:10	3:10	3:10	R14 WSW	4:00	4:10	3:10	3:10	3:10	R14 WSW	3:10	~~4:00~~ 4:10	3:10
R15 W	4:10	4:10	3:10	3:10	3:10	R15 W	4:00	4:10	3:10	3:10	3:10	R15 W	3:10	~~4:00~~ 4:10	3:10
R16 WNW	4:10	4:10	3:10	3:10	3:10	R16 WNW	4:00	4:10	3:10	3:10	3:10	R16 WNW	3:10	~~4:00~~ 4:10	3:10
R17 NW, NNW	4:10	4:10	3:10	3:10	3:10	R17 NW, NNW	4:00	4:10	3:10	3:10	3:10	R17 NW, NNW	3:10	4:10	3:10
2-Mile Ring and Downwind to EPZ Boundary (3 sector groups)															
R18 N	4:10	4:20	4:00	4:00	4:00	R18 N	4:10	4:10	4:00	4:00	4:00	R18 N	4:00	4:10	4:00
R19 NNE	4:10	4:10	4:00	4:00	3:50	R19 NNE	4:10	4:10	4:00	4:00	4:00	R19 NNE	4:00	4:10	4:00
R20 NE	4:10	4:10	3:50	4:00	3:50	R20 NE	4:10	4:10	3:50	4:00	4:00	R20 NE	3:50	4:10	3:50
R21 ENE	4:00	4:00	3:40	3:40	3:40	R21 ENE	4:00	4:00	3:40	3:40	3:40	R21 ENE	3:40	4:00	3:40
R22 E	4:00	4:00	3:40	3:40	3:40	R22 E	4:00	4:00	3:40	3:40	3:40	R22 E	3:40	4:00	3:40
R23 ESE	4:00	4:00	3:00	3:00	3:00	R23 ESE	4:00	4:00	3:00	3:10	3:00	R23 ESE	3:00	4:00	3:00
R24 SE	4:00	4:00	3:00	3:00	3:00	R24 SE	4:00	4:00	3:00	3:10	3:00	R24 SE	3:00	4:00	3:00
R25 SSE	4:00	4:00	3:00	3:10	3:00	R25 SSE	4:10	4:10	3:10	3:10	3:10	R25 SSE	3:10	~~4:10~~ 4:00	3:00
R26 S	4:00	4:00	3:00	3:10	3:00	R26 S	4:00	4:00	3:00	3:00	3:10	R26 S	3:00	~~4:10~~ 4:00	3:00
R27 SSW	4:00	4:00	3:10	3:10	3:00	R27 SSW	4:00	4:10	3:00	3:00	3:00	R27 SSW	3:00	4:00	3:10
R28 SW	4:00	4:10	3:10	3:10	3:10	R28 SW	4:10	4:10	3:10	3:10	3:10	R28 SW	3:10	~~4:10~~ 4:00	3:10
R29 WSW	4:10	4:10	3:10	3:10	3:10	R29 WSW	4:10	4:10	3:10	3:10	3:10	R29 WSW	3:10	~~4:00~~ 4:10	3:10
R30 W	4:10	4:10	3:50	3:50	4:00	R30 W	4:10	4:10	3:50	3:50	3:50	R30 W	3:50	4:10	3:50
R31 WNW	4:20	4:20	3:50	3:50	4:00	R31 WNW	4:10	4:20	3:50	4:00	4:00	R31 WNW	3:50	4:20	3:50
R32 NW	4:20	4:20	3:50	3:50	3:50	R32 NW	4:20	4:20	3:50	4:00	3:50	R32 NW	3:50	4:20	3:50
R33 NNW	4:10	4:20	4:00	4:00	4:00	R33 NNW	4:10	4:20	4:00	4:00	4:00	R33 NNW	4:00	4:20	4:00

RCOL2_13.03-30

Table 7-1D. Time to Clear the Indicated Area of 100 Percent of The Affected Population (page 2 of 2)

	Summer		Summer		Summer		Winter		Winter		Winter		Summer	Summer	Summer
	Midweek		Weekend		Midweek Weekend		Midweek		Weekend		Midweek Weekend		Weekend	Midweek	Weekend
Scenario:	(1)	(2)	(3)	(4)	(5)	Scenario:	(6)	(7)	(8)	(9)	(10)	Scenario:	(11)	(12)	(13)
Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday	Midday	Midday
	Good Weather	Rain	Good Weather	Rain	Good Weather		Good Weather	Rain	Good Weather	Rain	Good Weather		Event in Amphitheatre	New Plant Construction	Granbury 4th of July
2-Mile Ring and Downwind to 5 Miles (5 sector groups)															
R34 N	4:10	4:10	3:10	3:10	3:10	R34 N	4:00	4:10	3:10	3:10	3:10	R34 N	3:10	~~4:00~~ 4:10	3:10
R35 NNE	4:10	4:10	3:10	3:10	3:10	R35 NNE	4:10	4:10	3:10	3:10	3:10	R35 NNE	3:10	4:10	3:10
R36 NE	4:00	4:00	3:00	3:00	3:10	R36 NE	4:00	4:10	3:10	3:00	3:10	R36 NE	3:00	4:00	3:00
R37 ENE	4:00	4:00	3:00	3:00	3:00	R37 ENE	4:00	4:00	3:00	3:00	3:00	R37 ENE	3:10	4:00	3:00
R38 E	4:00	4:00	3:00	3:00	3:00	R38 E	4:00	4:00	3:00	3:00	3:00	R38 E	3:10	4:00	3:00
R39 ESE	4:00	4:00	3:00	3:00	3:00	R39 ESE	4:00	4:00	3:00	3:00	3:00	R39 ESE	3:10	4:00	3:00
R40 SE	4:00	4:00	3:00	3:00	3:00	R40 SE	4:00	4:00	3:00	3:00	3:00	R40 SE	3:10	4:00	3:00
R41 SSE, S	4:00	4:00	3:00	3:00	3:00	R41 SSE, S	4:00	4:00	3:00	3:00	3:00	R41 SSE, S	3:10	4:00	3:00
R42 SSW	4:00	4:00	3:00	3:00	3:00	R42 SSW	4:00	4:00	3:00	3:00	3:00	R42 SSW	3:10	4:00	3:00
R43 SW	4:00	4:00	3:10	3:00	3:10	R43 SW	4:00	4:00	3:10	3:10	3:10	R43 SW	3:10	4:00	3:10
R44 WSW	4:10	4:10	3:10	3:10	3:10	R44 WSW	4:00	4:10	3:10	3:10	3:10	R44 WSW	3:10	~~4:00~~ 4:10	3:10
R45 W	4:10	4:10	3:10	3:10	3:10	R45 W	4:10	4:10	3:10	3:10	3:10	R45 W	3:10	4:10	3:10
R46 WNW	4:10	4:10	3:10	3:10	3:10	R46 WNW	4:10	4:10	3:10	3:10	3:10	R46 WNW	3:10	4:10	3:10
R47 NW, NNW	4:10	4:10	3:10	3:10	3:10	R47 NW, NNW	4:10	4:10	3:10	3:10	3:10	R47 NW, NNW	3:10	4:10	3:10
2-Mile Ring and Downwind to EPZ Boundary (5 sector groups)															
R48 N	4:10	4:20	4:00	4:00	4:00	R48 N	4:20	4:20	4:00	4:00	4:00	R48 N	4:00	4:10	4:00
R49 NNE	4:10	4:20	4:00	4:00	4:00	R49 NNE	4:10	4:20	4:00	4:00	4:00	R49 NNE	4:00	4:10	4:00
R50 NE	4:10	4:10	4:00	4:00	4:00	R50 NE	4:10	4:10	3:50	4:00	4:00	R50 NE	4:00	4:10	4:00
R51 ENE	4:10	4:10	3:50	4:00	3:50	R51 ENE	4:10	4:10	3:50	4:00	4:00	R51 ENE	3:50	4:10	3:50
R52 E	4:10	4:10	3:40	3:40	3:40	R52 E	4:00	4:10	3:40	3:40	3:40	R52 E	3:40	~~4:00~~ 4:10	3:40
R53 ESE	4:10	4:10	3:40	3:40	3:40	R53 ESE	4:00	4:00	3:40	3:40	3:40	R53 ESE	3:40	~~4:00~~ 4:10	3:40
R54 SE	4:00	4:10	3:00	3:10	3:00	R54 SE	4:00	4:10	3:00	3:10	3:00	R54 SE	3:20	~~4:10~~ 4:00	3:10
R55 SSE	4:00	4:00	3:00	3:10	3:00	R55 SSE	4:10	4:10	3:00	3:10	3:10	R55 SSE	3:20	~~4:10~~ 4:00	3:00
R56 S	4:00	4:00	3:10	3:10	3:10	R56 S	4:10	4:00	3:00	3:10	3:10	R56 S	3:20	~~4:10~~ 4:00	3:10
R57 SSW	4:00	4:10	3:10	3:10	3:10	R57 SSW	4:10	4:10	3:10	3:10	3:10	R57 SSW	3:20	~~4:10~~ 4:00	3:10
R58 SW	4:10	4:10	3:10	3:10	3:10	R58 SW	4:10	4:10	3:10	3:10	3:10	R58 SW	3:20	~~4:00~~ 4:10	3:10
R59 WSW	4:10	4:10	3:50	3:50	3:50	R59 WSW	4:10	4:10	3:50	3:50	3:50	R59 WSW	3:50	4:10	3:50
R60 W	4:20	4:20	3:50	3:50	4:00	R60 W	4:10	4:20	3:50	4:00	3:50	R60 W	3:50	~~4:10~~ 4:20	3:50
R61 WNW	4:20	4:20	3:50	4:00	4:00	R61 WNW	4:20	4:20	3:50	3:50	4:00	R61 WNW	3:50	4:20	3:50
R62 NW	4:10	4:20	4:00	4:00	4:00	R62 NW	4:20	4:20	4:00	4:00	4:00	R62 NW	4:00	~~4:20~~ 4:10	4:00
R63 NNW	4:20	4:20	4:00	4:00	4:00	R63 NNW	4:20	4:20	4:00	4:00	4:00	R63 NNW	4:00	4:20	4:00

RCOL2_13.03-30

Table J-1A. Time to Clear the Indicated Area of 50 Percent of The Affected Population (page 1 of 2)

	Summer		Summer		Summer		Winter		Winter		Winter		Summer	Summer	Summer
	Midweek		Weekend		Midweek Weekend		Midweek		Weekend		Midweek Weekend		Weekend	Midweek	Weekend
Scenario:	(1)	(2)	(3)	(4)	(5)	Scenario:	(6)	(7)	(8)	(9)	(10)	Scenario:	(11)	(12)	(13)
Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday	Midday	Midday
	Good Weather	Rain	Good Weather	Rain	Good Weather		Good Weather	Rain	Good Weather	Rain	Good Weather		Event in Amphitheatre	New Plant Construction	Granbury 4th of July
Entire 2-Mile Region, 5-Mile Region, and EPZ															
R01 2-mile ring	0:45	0:45	0:45	0:45	0:45	R01 2-mile ring	0:45	0:45	0:45	0:45	0:45	R01 2-mile ring	0:45	~~0:45~~ 1:10	0:45
R02 5-mile ring	1:00	1:00	0:55	1:00	0:55	R02 5-mile ring	1:00	1:00	0:55	0:55	0:55	R02 5-mile ring	1:05	~~1:05~~ 1:10	0:55
R03 Entire EPZ	1:10	1:15	1:05	1:10	1:05	R03 Entire EPZ	1:10	1:15	1:05	1:10	1:05	R03 Entire EPZ	1:10	~~1:10~~ 1:20	1:25
2-Mile Ring and Downwind to 5 Miles (3 sector groups)															
R04 N	0:55	0:55	0:55	0:55	0:55	R04 N	0:55	0:55	0:55	0:55	0:55	R04 N	0:55	~~0:55~~ 1:10	0:55
R05 NNE	0:55	0:55	0:50	0:55	0:55	R05 NNE	0:55	0:55	0:50	0:55	0:55	R05 NNE	0:50	~~0:50~~ 1:10	0:50
R06 NE	0:55	0:55	0:50	0:55	0:50	R06 NE	0:55	0:55	0:50	0:55	0:55	R06 NE	0:55	~~0:55~~ 1:05	0:50
R07 ENE	0:55	0:55	0:50	0:50	0:50	R07 ENE	0:55	0:55	0:50	0:50	0:50	R07 ENE	0:55	~~0:55~~ 1:05	0:50
R08 E	0:50	0:50	0:50	0:50	0:50	R08 E	0:50	0:55	0:50	0:50	0:50	R08 E	0:55	~~0:55~~ 1:05	0:50
R09 ESE	0:55	1:00	0:55	1:00	0:55	R09 ESE	0:55	0:55	0:55	0:55	0:50	R09 ESE	1:05	~~1:05~~ 1:10	0:55
R10 SE	0:55	1:00	0:55	1:00	0:55	R10 SE	0:55	0:55	0:55	0:55	0:50	R10 SE	1:05	~~1:05~~ 1:10	0:55
R11 SSE, S	0:55	0:55	0:55	0:55	0:50	R11 SSE, S	0:50	0:50	0:50	0:50	0:50	R11 SSE, S	1:00	~~1:00~~ 1:05	0:55
R12 SSW	0:55	0:55	0:55	0:55	0:50	R12 SSW	0:50	0:50	0:50	0:50	0:50	R12 SSW	1:00	~~1:00~~ 1:05	0:55
R13 SW	0:50	0:50	0:50	0:50	0:50	R13 SW	0:50	0:50	0:50	0:50	0:50	R13 SW	0:50	~~0:50~~ 1:10	0:50
R14 WSW	0:55	0:55	0:50	0:55	0:50	R14 WSW	0:55	0:55	0:50	0:55	0:55	R14 WSW	0:50	~~0:50~~ 1:10	0:50
R15 W	0:55	0:55	0:55	0:55	0:55	R15 W	0:55	0:55	0:55	0:55	0:55	R15 W	0:55	~~0:55~~ 1:10	0:55
R16 WNW	0:55	0:55	0:55	0:55	0:55	R16 WNW	0:55	0:55	0:55	0:55	0:55	R16 WNW	0:55	~~0:55~~ 1:10	0:55
R17 NW, NNW	0:55	0:55	0:55	0:55	0:55	R17 NW, NNW	0:55	0:55	0:55	0:55	0:55	R17 NW, NNW	0:55	~~0:55~~ 1:10	0:55
2-Mile Ring and Downwind to EPZ Boundary (3 sector groups)															
R18 N	1:10	1:15	1:05	1:10	1:05	R18 N	1:10	1:15	1:05	1:10	1:05	R18 N	1:05	~~1:05~~ 1:15	1:30
R19 NNE	1:10	1:10	1:05	1:05	1:05	R19 NNE	1:10	1:10	1:05	1:05	1:05	R19 NNE	1:05	~~1:05~~ 1:15	1:25
R20 NE	1:05	1:05	1:00	1:00	1:00	R20 NE	1:05	1:05	1:00	1:00	1:00	R20 NE	1:00	~~1:00~~ 1:10	1:05
R21 ENE	1:00	1:00	0:55	0:55	0:55	R21 ENE	1:00	1:00	0:55	0:55	0:55	R21 ENE	0:55	~~0:55~~ 1:05	0:55
R22 E	1:00	1:00	0:55	0:55	0:55	R22 E	1:00	1:00	0:55	0:55	0:55	R22 E	0:55	~~0:55~~ 1:05	0:55
R23 ESE	1:00	1:00	1:00	1:00	0:55	R23 ESE	1:00	1:00	0:55	1:00	0:55	R23 ESE	1:05	~~1:05~~ 1:10	1:00
R24 SE	1:00	1:00	1:00	1:00	0:55	R24 SE	1:00	1:00	0:55	1:00	0:55	R24 SE	1:05	~~1:05~~ 1:10	1:00
R25 SSE	1:05	1:05	1:00	1:05	1:00	R25 SSE	1:00	1:05	1:00	1:00	0:55	R25 SSE	1:05	~~1:05~~ 1:15	1:00
R26 S	1:00	1:05	1:00	1:05	0:55	R26 S	0:55	1:00	0:55	1:00	0:50	R26 S	1:05	~~1:05~~ 1:15	1:00
R27 SSW	1:00	1:00	1:00	1:00	0:55	R27 SSW	0:55	1:00	0:55	1:00	0:50	R27 SSW	1:05	~~1:05~~ 1:10	1:00
R28 SW	0:55	1:00	0:55	0:55	0:55	R28 SW	0:55	1:00	0:55	0:55	0:55	R28 SW	0:55	~~0:55~~ 1:15	0:55
R29 WSW	1:00	1:00	0:55	0:55	0:55	R29 WSW	1:00	1:00	0:55	0:55	0:55	R29 WSW	0:55	~~0:55~~ 1:15	0:55
R30 W	1:05	1:05	1:00	1:00	1:00	R30 W	1:05	1:05	1:00	1:00	1:00	R30 W	1:00	~~1:00~~ 1:15	1:05
R31 WNW	1:05	1:05	1:00	1:00	1:00	R31 WNW	1:05	1:05	1:00	1:00	1:00	R31 WNW	1:00	~~1:00~~ 1:15	1:05
R32 NW	1:05	1:05	1:00	1:00	1:00	R32 NW	1:05	1:05	1:00	1:00	1:00	R32 NW	1:00	~~1:00~~ 1:15	1:05
R33 NNW	1:10	1:15	1:05	1:10	1:05	R33 NNW	1:10	1:15	1:05	1:10	1:05	R33 NNW	1:05	~~1:05~~ 1:15	1:35

RCOL2_13.03-30

Table J-1A. Time to Clear the Indicated Area of 50 Percent of The Affected Population (page 2 of 2)

	Summer		Summer		Summer		Winter		Winter		Winter		Summer	Summer	Summer
	Midweek		Weekend		Midweek Weekend		Midweek		Weekend		Midweek Weekend		Weekend	Midweek	Weekend
Scenario:	(1)	(2)	(3)	(4)	(5)	Scenario:	(6)	(7)	(8)	(9)	(10)	Scenario:	(11)	(12)	(13)
Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday	Midday	Midday
	Good Weather	Rain	Good Weather	Rain	Good Weather		Good Weather	Rain	Good Weather	Rain	Good Weather		Event in Amphitheatre	New Plant Construction	Granbury 4th of July
2-Mile Ring and Downwind to 5 Miles (5 sector groups)															
R34 N	1:00	1:00	0:55	0:55	0:55	R34 N	1:00	1:00	0:55	0:55	0:55	R34 N	0:55	~~0:55~~ 1:10	0:55
R35 NNE	0:55	1:00	0:55	0:55	0:55	R35 NNE	0:55	1:00	0:55	0:55	0:55	R35 NNE	0:55	~~0:55~~ 1:10	0:55
R36 NE	0:55	0:55	0:50	0:55	0:50	R36 NE	0:55	0:55	0:50	0:55	0:55	R36 NE	0:55	~~0:55~~ 1:05	0:50
R37 ENE	0:55	0:55	0:55	0:55	0:50	R37 ENE	0:55	0:55	0:50	0:55	0:50	R37 ENE	0:55	~~0:55~~ 1:05	0:55
R38 E	0:55	1:00	0:55	1:00	0:55	R38 E	0:55	0:55	0:55	0:55	0:50	R38 E	1:05	~~1:05~~ 1:10	0:55
R39 ESE	0:55	0:55	0:55	1:00	0:55	R39 ESE	0:55	0:55	0:50	0:55	0:50	R39 ESE	1:05	~~1:05~~ 1:10	0:55
R40 SE	0:55	0:55	0:55	1:00	0:55	R40 SE	0:55	0:55	0:50	0:55	0:50	R40 SE	1:05	~~1:05~~ 1:10	0:55
R41 SSE, S	0:55	0:55	0:50	0:55	0:50	R41 SSE, S	0:50	0:55	0:50	0:50	0:50	R41 SSE, S	1:00	~~1:00~~ 1:05	0:50
R42 SSW	0:55	0:55	0:55	0:55	0:50	R42 SSW	0:55	0:55	0:50	0:50	0:50	R42 SSW	1:00	~~1:00~~ 1:05	0:55
R43 SW	0:55	0:55	0:55	0:55	0:50	R43 SW	0:55	0:55	0:50	0:55	0:50	R43 SW	1:00	~~1:00~~ 1:05	0:55
R44 WSW	0:55	0:55	0:50	0:55	0:50	R44 WSW	0:55	0:55	0:50	0:55	0:55	R44 WSW	0:50	~~0:50~~ 1:10	0:50
R45 W	1:00	1:00	0:55	0:55	0:55	R45 W	1:00	1:00	0:55	0:55	0:55	R45 W	0:55	~~0:55~~ 1:15	0:55
R46 WNW	1:00	1:00	0:55	0:55	0:55	R46 WNW	1:00	1:00	0:55	0:55	0:55	R46 WNW	0:55	~~0:55~~ 1:15	0:55
R47 NW, NNW	0:55	1:00	0:55	0:55	0:55	R47 NW, NNW	0:55	1:00	0:55	0:55	0:55	R47 NW, NNW	0:55	~~0:55~~ 1:10	0:55
2-Mile Ring and Downwind to EPZ Boundary (5 sector groups)															
R48 N	1:10	1:15	1:05	1:10	1:05	R48 N	1:10	1:15	1:05	1:10	1:05	R48 N	1:05	~~1:05~~ 1:15	1:30
R49 NNE	1:05	1:10	1:05	1:05	1:05	R49 NNE	1:10	1:10	1:05	1:05	1:05	R49 NNE	1:05	~~1:05~~ 1:15	1:25
R50 NE	1:05	1:10	1:00	1:05	1:00	R50 NE	1:05	1:10	1:00	1:05	1:00	R50 NE	1:05	~~1:05~~ 1:15	1:20
R51 ENE	1:05	1:05	1:00	1:00	1:00	R51 ENE	1:05	1:05	1:00	1:00	1:00	R51 ENE	1:00	~~1:00~~ 1:10	1:05
R52 E	1:00	1:05	1:00	1:00	0:55	R52 E	1:00	1:00	0:55	1:00	0:55	R52 E	1:00	~~1:00~~ 1:10	1:00
R53 ESE	1:00	1:05	1:00	1:00	0:55	R53 ESE	1:00	1:00	0:55	1:00	0:55	R53 ESE	1:00	~~1:00~~ 1:10	1:00
R54 SE	1:05	1:05	1:00	1:05	1:00	R54 SE	1:00	1:05	1:00	1:00	0:55	R54 SE	1:05	~~1:05~~ 1:15	1:00
R55 SSE	1:05	1:05	1:00	1:05	1:00	R55 SSE	1:00	1:05	1:00	1:00	0:55	R55 SSE	1:05	~~1:05~~ 1:15	1:00
R56 S	1:00	1:05	1:00	1:05	0:55	R56 S	1:00	1:00	0:55	1:00	0:55	R56 S	1:10	~~1:10~~ 1:15	1:00
R57 SSW	1:00	1:05	1:00	1:05	0:55	R57 SSW	1:00	1:00	0:55	1:00	0:55	R57 SSW	1:05	~~1:05~~ 1:15	1:00
R58 SW	1:00	1:05	1:00	1:00	0:55	R58 SW	1:00	1:00	0:55	1:00	0:55	R58 SW	1:05	~~1:05~~ 1:15	1:00
R59 WSW	1:00	1:05	1:00	1:00	0:55	R59 WSW	1:00	1:05	0:55	1:00	0:55	R59 WSW	1:00	~~1:00~~ 1:15	1:00
R60 W	1:05	1:05	1:00	1:00	1:00	R60 W	1:05	1:05	1:00	1:00	1:00	R60 W	1:00	~~1:00~~ 1:15	1:00
R61 WNW	1:05	1:05	1:00	1:00	1:00	R61 WNW	1:05	1:10	1:00	1:00	1:00	R61 WNW	1:00	~~1:00~~ 1:15	1:05
R62 NW	1:10	1:15	1:05	1:10	1:05	R62 NW	1:10	1:15	1:05	1:10	1:05	R62 NW	1:05	~~1:05~~ 1:20	1:35
R63 NNW	1:10	1:15	1:05	1:10	1:05	R63 NNW	1:10	1:15	1:05	1:10	1:05	R63 NNW	1:05	~~1:05~~ 1:15	1:30

RCOL2_13.03-30

Table J-1B. Time to Clear the Indicated Area of 90 Percent of The Affected Population (page 1 of 2)

	Summer		Summer		Summer		Winter		Winter		Winter		Summer	Summer	Summer
	Midweek		Weekend		Midweek Weekend		Midweek		Weekend		Midweek Weekend		Weekend	Midweek	Weekend
Scenario:	(1)	(2)	(3)	(4)	(5)	Scenario:	(6)	(7)	(8)	(9)	(10)	Scenario:	(11)	(12)	(13)
Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday	Midday	Midday
	Good Weather	Rain	Good Weather	Rain	Good Weather		Good Weather	Rain	Good Weather	Rain	Good Weather		Event in Amphitheatre	New Plant Construction	Granbury 4th of July
Entire 2-Mile Region, 5-Mile Region, and EPZ															
R01 2-mile ring	1:25	1:25	1:20	1:20	1:25	R01 2-mile ring	1:25	1:25	1:20	1:20	1:25	R01 2-mile ring	1:20	2:05	1:20
R02 5-mile ring	1:50	1:50	1:40	1:50	1:35	R02 5-mile ring	1:50	1:50	1:35	1:40	1:30	R02 5-mile ring	2:20	~~2:15~~ 2:10	1:40
R03 Entire EPZ	2:10	2:15	2:00	2:05	1:55	R03 Entire EPZ	2:10	2:20	1:55	2:00	1:55	R03 Entire EPZ	2:10	~~2:30~~ 2:25	2:50
2-Mile Ring and Downwind to 5 Miles (3 sector groups)															
R04 N	1:50	1:50	1:30	1:35	1:35	R04 N	1:50	1:50	1:30	1:35	1:35	R04 N	1:30	2:05	1:30
R05 NNE	1:50	1:50	1:30	1:30	1:30	R05 NNE	1:50	1:50	1:30	1:30	1:30	R05 NNE	1:30	2:05	1:30
R06 NE	1:50	1:50	1:30	1:30	1:30	R06 NE	1:50	1:50	1:30	1:30	1:30	R06 NE	1:35	2:05	1:30
R07 ENE	1:40	1:40	1:30	1:30	1:30	R07 ENE	1:40	1:40	1:30	1:30	1:30	R07 ENE	1:35	2:05	1:30
R08 E	1:40	1:40	1:30	1:30	1:30	R08 E	1:40	1:40	1:30	1:30	1:30	R08 E	1:35	2:05	1:30
R09 ESE	1:45	1:50	1:45	1:50	1:35	R09 ESE	1:40	1:40	1:35	1:40	1:30	R09 ESE	2:20	~~2:10~~ 2:05	1:45
R10 SE	1:45	1:50	1:40	1:50	1:35	R10 SE	1:40	1:40	1:35	1:40	1:30	R10 SE	2:20	~~2:10~~ 2:05	1:40
R11 SSE, S	1:40	1:40	1:35	1:40	1:30	R11 SSE, S	1:40	1:40	1:25	1:30	1:25	R11 SSE, S	2:20	2:05	1:35
R12 SSW	1:40	1:40	1:35	1:40	1:30	R12 SSW	1:40	1:40	1:25	1:30	1:25	R12 SSW	2:20	2:05	1:35
R13 SW	1:30	1:30	1:25	1:25	1:25	R13 SW	1:30	1:30	1:25	1:25	1:25	R13 SW	1:25	2:10	1:25
R14 WSW	1:40	1:40	1:30	1:30	1:30	R14 WSW	1:40	1:40	1:30	1:30	1:30	R14 WSW	1:30	2:10	1:30
R15 W	1:40	1:40	1:30	1:30	1:30	R15 W	1:40	1:40	1:30	1:30	1:30	R15 W	1:30	2:10	1:30
R16 WNW	1:40	1:40	1:30	1:30	1:30	R16 WNW	1:40	1:40	1:30	1:30	1:30	R16 WNW	1:30	2:10	1:30
R17 NW, NNW	1:40	1:40	1:30	1:30	1:30	R17 NW, NNW	1:40	1:40	1:30	1:30	1:30	R17 NW, NNW	1:30	2:05	1:30
2-Mile Ring and Downwind to EPZ Boundary (3 sector groups)															
R18 N	2:10	2:20	1:55	2:00	1:55	R18 N	2:20	2:20	1:55	2:00	1:55	R18 N	1:55	~~2:25~~ 2:15	3:00
R19 NNE	2:10	2:20	1:55	2:00	1:55	R19 NNE	2:10	2:20	1:55	2:00	1:55	R19 NNE	1:55	~~2:20~~ 2:15	2:50
R20 NE	2:10	2:10	1:50	1:55	1:50	R20 NE	2:10	2:10	1:50	1:55	1:50	R20 NE	1:50	~~2:15~~ 2:10	2:10
R21 ENE	2:00	2:00	1:35	1:35	1:35	R21 ENE	2:00	2:00	1:35	1:40	1:35	R21 ENE	1:40	2:05	1:35
R22 E	2:00	2:00	1:35	1:35	1:35	R22 E	2:00	2:00	1:35	1:35	1:35	R22 E	1:40	2:05	1:35
R23 ESE	1:50	1:55	1:45	1:50	1:40	R23 ESE	1:50	1:50	1:35	1:40	1:35	R23 ESE	2:20	2:10	1:45
R24 SE	1:50	1:55	1:45	1:50	1:40	R24 SE	1:50	1:50	1:35	1:40	1:35	R24 SE	2:20	2:10	1:45
R25 SSE	1:50	1:55	1:45	1:55	1:35	R25 SSE	1:50	1:50	1:35	1:45	1:35	R25 SSE	2:20	~~2:20~~ 2:15	1:45
R26 S	1:45	1:55	1:45	1:55	1:35	R26 S	1:50	1:50	1:35	1:40	1:30	R26 S	2:10	2:15	1:45
R27 SSW	1:45	1:50	1:45	1:50	1:35	R27 SSW	1:45	1:50	1:35	1:40	1:30	R27 SSW	2:20	2:20	1:45
R28 SW	1:40	1:40	1:35	1:35	1:30	R28 SW	1:40	1:45	1:30	1:35	1:30	R28 SW	1:35	~~2:20~~ 2:15	1:35
R29 WSW	1:50	1:50	1:35	1:35	1:35	R29 WSW	1:50	1:50	1:35	1:35	1:35	R29 WSW	1:35	2:15	1:35
R30 W	2:00	2:10	1:40	1:40	1:40	R30 W	2:10	2:10	1:40	1:40	1:40	R30 W	1:40	2:10	1:55
R31 WNW	2:10	2:10	1:40	1:40	1:40	R31 WNW	2:10	2:10	1:40	1:40	1:40	R31 WNW	1:40	2:15	2:00
R32 NW	2:10	2:10	1:40	1:40	1:40	R32 NW	2:10	2:10	1:40	1:40	1:40	R32 NW	1:40	2:15	2:00
R33 NNW	2:10	2:20	1:55	2:05	2:00	R33 NNW	2:10	2:20	1:55	2:05	2:00	R33 NNW	1:55	~~2:25~~ 2:15	3:00

RCOL2_13.03-30

Table J-1B. Time to Clear the Indicated Area of 90 Percent of The Affected Population (page 2 of 2)

	Summer		Summer		Summer		Winter		Winter		Winter		Summer	Summer	Summer
	Midweek		Weekend		Midweek Weekend		Midweek		Weekend		Midweek Weekend		Weekend	Midweek	Weekend
Scenario:	(1)	(2)	(3)	(4)	(5)	Scenario:	(6)	(7)	(8)	(9)	(10)	Scenario:	(11)	(12)	(13)
Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday	Midday	Midday
	Good Weather	Rain	Good Weather	Rain	Good Weather		Good Weather	Rain	Good Weather	Rain	Good Weather		Event in Amphitheatre	New Plant Construction	Granbury 4th of July
2-Mile Ring and Downwind to 5 Miles (5 sector groups)															
R34 N	1:50	1:50	1:35	1:35	1:35	R34 N	1:50	1:50	1:35	1:35	1:35	R34 N	1:35	2:05	1:35
R35 NNE	1:50	1:50	1:30	1:35	1:35	R35 NNE	1:50	1:50	1:30	1:35	1:35	R35 NNE	1:35	2:05	1:30
R36 NE	1:50	1:50	1:30	1:30	1:30	R36 NE	1:50	1:50	1:30	1:30	1:30	R36 NE	1:35	2:05	1:30
R37 ENE	1:40	1:50	1:35	1:35	1:30	R37 ENE	1:50	1:50	1:30	1:30	1:30	R37 ENE	1:40	~~2:10~~ 2:05	1:35
R38 E	1:45	1:50	1:45	1:50	1:35	R38 E	1:40	1:40	1:35	1:40	1:30	R38 E	2:20	~~2:10~~ 2:05	1:45
R39 ESE	1:45	1:50	1:40	1:50	1:35	R39 ESE	1:40	1:40	1:35	1:40	1:30	R39 ESE	2:20	~~2:10~~ 2:05	1:40
R40 SE	1:40	1:50	1:40	1:45	1:35	R40 SE	1:40	1:40	1:30	1:40	1:30	R40 SE	2:20	~~2:10~~ 2:05	1:40
R41 SSE, S	1:40	1:40	1:35	1:40	1:30	R41 SSE, S	1:40	1:40	1:25	1:30	1:25	R41 SSE, S	2:20	2:05	1:35
R42 SSW	1:40	1:40	1:35	1:40	1:30	R42 SSW	1:40	1:40	1:30	1:30	1:30	R42 SSW	2:20	~~2:10~~ 2:05	1:35
R43 SW	1:40	1:45	1:35	1:40	1:30	R43 SW	1:40	1:40	1:30	1:30	1:30	R43 SW	2:10	~~2:10~~ 2:05	1:35
R44 WSW	1:40	1:40	1:30	1:30	1:30	R44 WSW	1:40	1:40	1:30	1:30	1:30	R44 WSW	1:30	2:10	1:30
R45 W	1:50	1:50	1:35	1:35	1:35	R45 W	1:50	1:50	1:35	1:35	1:35	R45 W	1:35	2:10	1:35
R46 WNW	1:50	1:50	1:35	1:35	1:35	R46 WNW	1:50	1:50	1:35	1:35	1:35	R46 WNW	1:35	2:10	1:35
R47 NW, NNW	1:50	1:50	1:30	1:35	1:35	R47 NW, NNW	1:50	1:50	1:30	1:35	1:35	R47 NW, NNW	1:30	2:05	1:30
2-Mile Ring and Downwind to EPZ Boundary (5 sector groups)															
R48 N	2:20	2:20	2:00	2:05	1:55	R48 N	2:20	2:20	2:00	2:05	1:55	R48 N	2:00	2:20	3:00
R49 NNE	2:10	2:20	1:55	2:00	1:55	R49 NNE	2:10	2:20	1:55	2:00	1:55	R49 NNE	1:55	~~2:20~~ 2:15	3:00
R50 NE	2:10	2:10	1:50	2:00	1:50	R50 NE	2:10	2:15	1:50	2:00	1:50	R50 NE	1:50	~~2:20~~ 2:15	2:50
R51 ENE	2:10	2:10	1:50	2:00	1:50	R51 ENE	2:10	2:10	1:50	2:00	1:50	R51 ENE	1:50	~~2:15~~ 2:10	2:10
R52 E	2:00	2:00	1:45	1:50	1:40	R52 E	2:00	2:00	1:40	1:40	1:35	R52 E	2:10	2:10	1:45
R53 ESE	2:00	2:00	1:45	1:50	1:40	R53 ESE	2:00	2:00	1:40	1:40	1:35	R53 ESE	2:10	2:10	1:45
R54 SE	1:55	2:00	1:50	2:00	1:40	R54 SE	1:50	1:55	1:40	1:45	1:35	R54 SE	2:20	~~2:20~~ 2:15	1:50
R55 SSE	1:55	2:00	1:50	2:00	1:40	R55 SSE	1:50	1:50	1:40	1:45	1:35	R55 SSE	2:20	~~2:20~~ 2:15	1:50
R56 S	1:50	1:55	1:45	1:55	1:35	R56 S	1:50	1:50	1:35	1:45	1:30	R56 S	2:25	2:15	1:45
R57 SSW	1:50	1:55	1:45	1:55	1:35	R57 SSW	1:50	1:50	1:35	1:40	1:30	R57 SSW	2:10	2:20	1:45
R58 SW	1:50	1:55	1:45	1:50	1:35	R58 SW	1:50	1:50	1:35	1:40	1:30	R58 SW	2:10	2:20	1:45
R59 WSW	2:00	2:00	1:40	1:40	1:40	R59 WSW	2:00	2:00	1:40	1:40	1:40	R59 WSW	1:40	~~2:20~~ 2:15	1:50
R60 W	2:00	2:00	1:40	1:40	1:40	R60 W	2:00	2:00	1:40	1:40	1:40	R60 W	1:40	2:15	1:55
R61 WNW	2:10	2:10	1:40	1:40	1:40	R61 WNW	2:10	2:10	1:40	1:40	1:40	R61 WNW	1:40	2:15	2:00
R62 NW	2:10	2:20	2:00	2:05	2:00	R62 NW	2:20	2:20	2:00	2:05	2:00	R62 NW	2:00	~~2:25~~ 2:20	3:00
R63 NNW	2:20	2:20	2:00	2:05	1:55	R63 NNW	2:20	2:20	2:00	2:05	1:55	R63 NNW	2:00	~~2:25~~ 2:20	3:00

RCOL2_13.03-30

Table J-1C. Time to Clear the Indicated Area of 95 Percent of The Affected Population (page 1 of 2)

	Summer		Summer		Summer		Winter		Winter		Winter		Summer	Summer	Summer
	Midweek		Weekend		Midweek Weekend		Midweek		Weekend		Midweek Weekend		Weekend	Midweek	Weekend
Scenario:	(1)	(2)	(3)	(4)	(5)	Scenario:	(6)	(7)	(8)	(9)	(10)	Scenario:	(11)	(12)	(13)
Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday	Midday	Midday
	Good Weather	Rain	Good Weather	Rain	Good Weather		Good Weather	Rain	Good Weather	Rain	Good Weather		Event in Amphitheatre	New Plant Construction	Granbury 4th of July
Entire 2-Mile Region, 5-Mile Region, and EPZ															
R01 2-mile ring	1:40	1:40	1:30	1:30	1:30	R01 2-mile ring	1:40	1:40	1:30	1:30	1:30	R01 2-mile ring	1:30	2:15	1:30
R02 5-mile ring	2:20	2:20	2:10	2:10	2:00	R02 5-mile ring	2:20	2:20	1:50	1:50	1:50	R02 5-mile ring	2:40	~~2:25~~ 2:20	1:50
R03 Entire EPZ	2:50	2:50	2:10	2:20	2:10	R03 Entire EPZ	2:40	2:40	2:10	2:20	2:10	R03 Entire EPZ	2:30	~~2:45~~ 2:40	3:10
2-Mile Ring and Downwind to 5 Miles (3 sector groups)															
R04 N	2:20	2:20	1:50	1:50	2:00	R04 N	2:20	2:20	1:50	1:50	2:00	R04 N	1:50	2:15	1:50
R05 NNE	2:20	2:20	1:50	1:50	1:50	R05 NNE	2:20	2:20	1:50	1:50	1:50	R05 NNE	1:50	2:15	1:50
R06 NE	2:10	2:10	1:50	1:50	1:50	R06 NE	2:10	2:10	1:50	1:50	1:50	R06 NE	1:45	2:15	1:50
R07 ENE	2:10	2:10	1:40	1:50	1:50	R07 ENE	2:10	2:10	1:50	1:50	1:50	R07 ENE	1:45	2:15	1:40
R08 E	2:00	2:00	1:40	1:40	1:50	R08 E	2:00	2:00	1:40	1:40	1:50	R08 E	1:45	2:15	1:40
R09 ESE	2:00	2:00	1:55	2:00	1:45	R09 ESE	2:10	2:10	1:40	1:50	1:50	R09 ESE	2:50	~~2:20~~ 2:15	1:55
R10 SE	2:00	2:00	1:50	2:00	1:40	R10 SE	2:10	2:10	1:40	1:50	1:50	R10 SE	2:50	2:15	1:50
R11 SSE, S	1:50	2:00	1:45	1:50	1:40	R11 SSE, S	2:00	2:00	1:40	1:40	1:40	R11 SSE, S	2:40	2:15	1:45
R12 SSW	2:00	2:00	1:45	1:50	1:40	R12 SSW	2:00	2:00	1:40	1:40	1:40	R12 SSW	2:40	2:15	1:45
R13 SW	1:50	2:00	1:40	1:40	1:40	R13 SW	1:50	2:00	1:40	1:40	1:40	R13 SW	1:40	2:15	1:40
R14 WSW	2:10	2:10	1:40	1:40	1:50	R14 WSW	2:10	2:10	1:40	1:40	1:50	R14 WSW	1:40	2:20	1:40
R15 W	2:10	2:10	1:40	1:40	1:50	R15 W	2:10	2:10	1:40	1:40	1:50	R15 W	1:40	2:15	1:40
R16 WNW	2:10	2:10	1:40	1:40	1:50	R16 WNW	2:10	2:10	1:40	1:40	1:50	R16 WNW	1:40	2:15	1:40
R17 NW, NNW	2:10	2:10	1:40	1:40	1:50	R17 NW, NNW	2:10	2:10	1:40	1:40	1:50	R17 NW, NNW	1:40	2:15	1:40
2-Mile Ring and Downwind to EPZ Boundary (3 sector groups)															
R18 N	2:50	2:50	2:10	2:20	2:10	R18 N	2:50	2:50	2:10	2:20	2:10	R18 N	2:10	2:40	3:15
R19 NNE	2:50	2:50	2:10	2:20	2:10	R19 NNE	2:50	2:50	2:10	2:20	2:10	R19 NNE	2:10	2:40	3:10
R20 NE	2:40	2:40	2:10	2:10	2:10	R20 NE	2:40	2:40	2:10	2:10	2:10	R20 NE	2:10	~~2:40~~ 2:30	2:20
R21 ENE	2:30	2:30	1:50	1:50	2:00	R21 ENE	2:30	2:30	1:50	2:00	2:00	R21 ENE	1:50	2:20	1:50
R22 E	2:30	2:30	1:50	1:50	2:00	R22 E	2:30	2:30	1:50	1:50	2:00	R22 E	1:50	2:20	1:50
R23 ESE	2:10	2:10	2:00	2:10	1:50	R23 ESE	2:10	2:10	1:50	1:55	1:50	R23 ESE	2:40	2:20	2:00
R24 SE	2:10	2:10	2:00	2:10	1:50	R24 SE	2:10	2:20	1:50	1:55	1:50	R24 SE	2:40	2:20	2:00
R25 SSE	2:10	2:10	1:55	2:05	1:50	R25 SSE	2:10	2:10	1:50	1:55	1:50	R25 SSE	2:40	~~2:35~~ 2:30	1:55
R26 S	2:10	2:10	1:55	2:00	1:50	R26 S	2:10	2:10	1:50	1:50	1:50	R26 S	2:40	~~2:35~~ 2:30	1:55
R27 SSW	2:00	2:05	1:50	2:00	1:50	R27 SSW	2:10	2:10	1:50	1:50	1:50	R27 SSW	2:40	2:40	1:50
R28 SW	2:00	2:00	1:40	1:45	1:40	R28 SW	2:00	2:00	1:40	1:40	1:40	R28 SW	1:40	~~2:30~~ 2:25	1:40
R29 WSW	2:10	2:10	1:50	1:50	1:50	R29 WSW	2:20	2:20	1:50	1:50	1:50	R29 WSW	1:50	2:25	1:50
R30 W	2:40	2:40	2:00	2:00	2:10	R30 W	2:40	2:40	2:00	2:00	2:10	R30 W	2:00	2:25	2:10
R31 WNW	2:40	2:40	2:00	2:00	2:10	R31 WNW	2:40	2:40	2:00	2:00	2:10	R31 WNW	2:00	~~2:30~~ 2:25	2:10
R32 NW	2:40	2:40	2:10	2:10	2:10	R32 NW	2:40	2:50	2:10	2:10	2:10	R32 NW	2:10	2:30	2:15
R33 NNW	2:40	2:50	2:10	2:20	2:10	R33 NNW	2:50	2:50	2:10	2:20	2:10	R33 NNW	2:10	2:40	3:20

RCOL2_13.03-30

Table J-1C. Time to Clear the Indicated Area of 95 Percent of The Affected Population (page 2 of 2)

	Summer		Summer		Summer		Winter		Winter		Winter		Summer	Summer	Summer
	Midweek		Weekend		Midweek Weekend		Midweek		Weekend		Midweek Weekend		Weekend	Midweek	Weekend
Scenario:	(1)	(2)	(3)	(4)	(5)	Scenario:	(6)	(7)	(8)	(9)	(10)	Scenario:	(11)	(12)	(13)
Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday	Midday	Midday
	Good Weather	Rain	Good Weather	Rain	Good Weather		Good Weather	Rain	Good Weather	Rain	Good Weather		Event in Amphitheatre	New Plant Construction	Granbury 4th of July
2-Mile Ring and Downwind to 5 Miles (5 sector groups)															
R34 N	2:20	2:20	1:50	1:50	2:00	R34 N	2:20	2:20	1:50	1:50	2:00	R34 N	1:50	2:15	1:50
R35 NNE	2:20	2:20	1:50	1:50	1:50	R35 NNE	2:20	2:20	1:50	1:50	1:50	R35 NNE	1:50	2:15	1:50
R36 NE	2:10	2:10	1:50	1:50	1:50	R36 NE	2:10	2:20	1:50	1:50	1:50	R36 NE	1:45	2:15	1:50
R37 ENE	2:10	2:10	1:40	1:50	1:50	R37 ENE	2:20	2:20	1:40	1:50	1:50	R37 ENE	2:10	2:20	1:40
R38 E	2:00	2:00	1:55	2:00	1:50	R38 E	2:10	2:10	1:40	1:50	1:50	R38 E	2:50	~~2:20~~ 2:15	1:55
R39 ESE	2:00	2:00	1:50	2:00	1:45	R39 ESE	2:10	2:10	1:40	1:50	1:40	R39 ESE	2:40	~~2:20~~ 2:15	1:50
R40 SE	2:00	2:00	1:50	1:55	1:40	R40 SE	2:00	2:00	1:40	1:50	1:40	R40 SE	2:50	2:15	1:50
R41 SSE, S	2:00	2:00	1:45	1:50	1:40	R41 SSE, S	2:00	2:00	1:40	1:40	1:40	R41 SSE, S	2:40	2:15	1:45
R42 SSW	2:00	2:00	1:50	1:50	1:40	R42 SSW	2:00	2:10	1:40	1:40	1:40	R42 SSW	2:40	2:20	1:50
R43 SW	2:10	2:10	1:50	1:50	1:40	R43 SW	2:10	2:10	1:40	1:40	1:50	R43 SW	2:40	2:20	1:50
R44 WSW	2:10	2:10	1:40	1:40	1:50	R44 WSW	2:10	2:10	1:40	1:40	1:50	R44 WSW	1:40	2:20	1:40
R45 W	2:20	2:20	1:50	1:50	2:00	R45 W	2:20	2:20	1:50	1:50	2:00	R45 W	1:50	2:20	1:50
R46 WNW	2:20	2:20	1:50	1:50	2:00	R46 WNW	2:20	2:20	1:50	1:50	2:00	R46 WNW	1:50	2:20	1:50
R47 NW, NNW	2:20	2:20	1:50	1:50	2:00	R47 NW, NNW	2:20	2:20	1:50	1:50	2:00	R47 NW, NNW	1:50	2:15	1:50
2-Mile Ring and Downwind to EPZ Boundary (5 sector groups)															
R48 N	2:50	2:50	2:10	2:20	2:10	R48 N	2:50	2:50	2:10	2:20	2:10	R48 N	2:10	2:40	3:20
R49 NNE	2:40	2:40	2:10	2:20	2:10	R49 NNE	2:40	2:50	2:10	2:20	2:10	R49 NNE	2:10	2:40	3:20
R50 NE	2:40	2:40	2:10	2:20	2:10	R50 NE	2:40	2:40	2:10	2:20	2:10	R50 NE	2:10	~~2:40~~ 2:30	3:10
R51 ENE	2:40	2:40	2:10	2:20	2:10	R51 ENE	2:40	2:40	2:10	2:20	2:10	R51 ENE	2:10	~~2:40~~ 2:30	2:30
R52 E	2:30	2:30	2:00	2:10	1:50	R52 E	2:30	2:30	1:50	1:55	1:50	R52 E	2:40	~~2:25~~ 2:20	2:00
R53 ESE	2:20	2:20	2:00	2:00	1:50	R53 ESE	2:30	2:30	1:50	1:55	1:50	R53 ESE	2:40	~~2:25~~ 2:20	2:00
R54 SE	2:10	2:10	2:00	2:10	1:50	R54 SE	2:20	2:20	1:50	1:55	1:50	R54 SE	2:40	~~2:35~~ 2:30	2:00
R55 SSE	2:10	2:10	2:00	2:10	1:50	R55 SSE	2:20	2:20	1:50	1:55	1:50	R55 SSE	2:40	~~2:35~~ 2:30	2:00
R56 S	2:00	2:10	1:55	2:05	1:50	R56 S	2:10	2:10	1:50	1:50	1:50	R56 S	2:50	2:30	1:55
R57 SSW	2:10	2:10	1:55	2:00	1:50	R57 SSW	2:20	2:20	1:50	1:50	1:50	R57 SSW	2:40	~~2:40~~ 2:35	1:55
R58 SW	2:10	2:20	1:50	2:00	1:50	R58 SW	2:20	2:20	1:50	1:50	1:50	R58 SW	2:40	2:40	1:50
R59 WSW	2:30	2:30	1:50	2:00	2:00	R59 WSW	2:30	2:30	2:00	2:00	2:00	R59 WSW	1:50	2:30	2:05
R60 W	2:30	2:30	2:00	2:00	2:00	R60 W	2:30	2:30	2:00	2:00	2:00	R60 W	2:00	~~2:30~~ 2:25	2:10
R61 WNW	2:40	2:40	2:00	2:10	2:10	R61 WNW	2:40	2:40	2:00	2:10	2:10	R61 WNW	2:00	2:30	2:10
R62 NW	2:50	2:50	2:10	2:20	2:10	R62 NW	2:50	2:50	2:10	2:20	2:10	R62 NW	2:10	2:40	3:20
R63 NNW	2:50	2:50	2:10	2:20	2:10	R63 NNW	2:50	2:50	2:10	2:20	2:10	R63 NNW	2:10	2:40	3:20

RCOL2_13.03-30

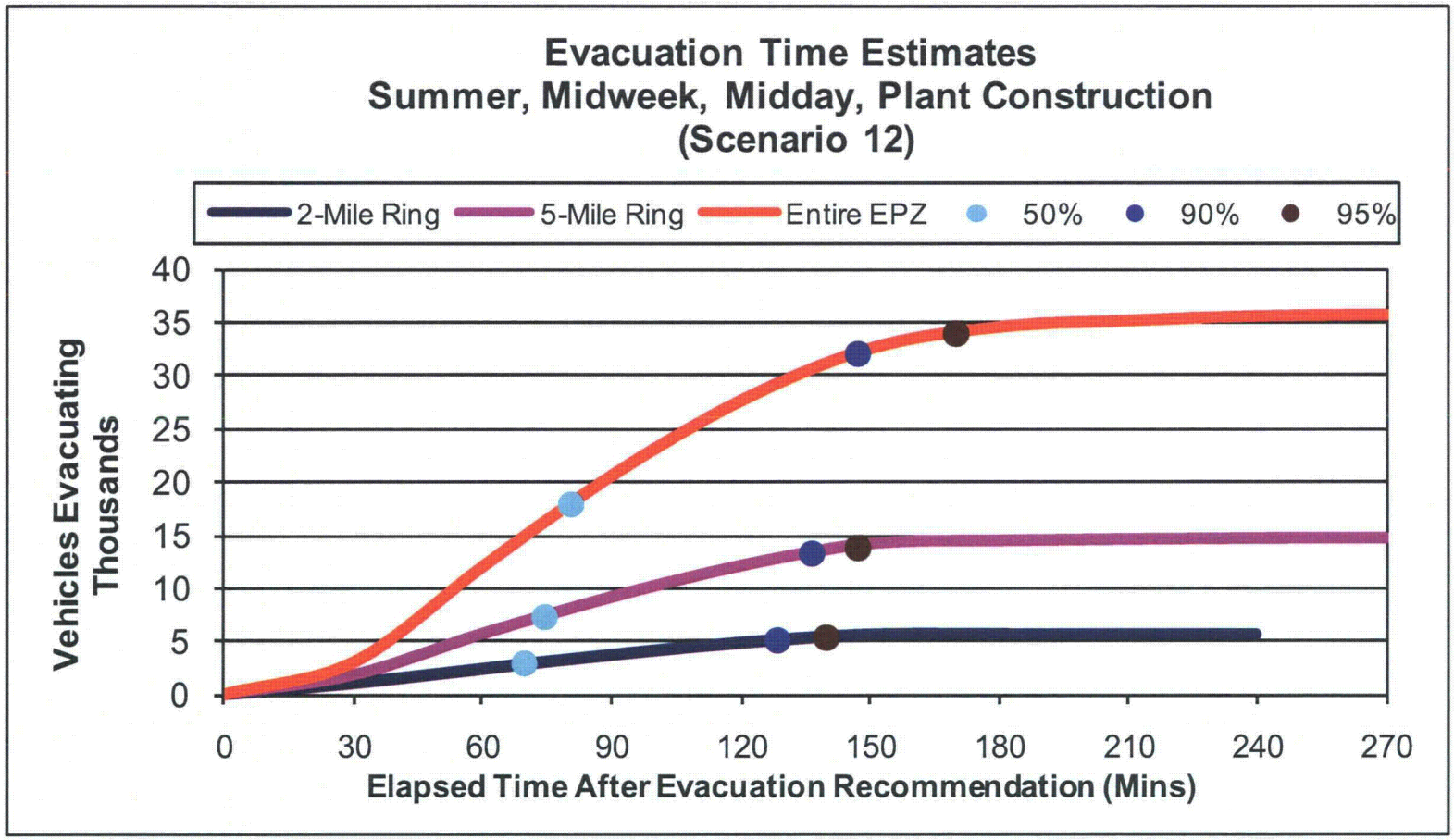
Table J-1D. Time to Clear the Indicated Area of 100 Percent of The Affected Population (page 1 of 2)

	Summer		Summer		Summer		Winter		Winter		Winter		Summer	Summer	Summer
	Midweek		Weekend		Midweek Weekend		Midweek		Weekend		Midweek Weekend		Weekend	Midweek	Weekend
Scenario:	(1)	(2)	(3)	(4)	(5)	Scenario:	(6)	(7)	(8)	(9)	(10)	Scenario:	(11)	(12)	(13)
Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday	Midday	Midday
	Good Weather	Rain	Good Weather	Rain	Good Weather		Good Weather	Rain	Good Weather	Rain	Good Weather		Event in Amphitheatre	New Plant Construction	Granbury 4th of July
Entire 2-Mile Region, 5-Mile Region, and EPZ															
R01 2-mile ring	3:50	3:50	2:50	3:00	3:00	R01 2-mile ring	3:50	3:50	2:50	2:50	3:00	R01 2-mile ring	2:50	~~3:40~~ 3:50	2:50
R02 5-mile ring	4:10	4:10	3:10	3:10	3:10	R02 5-mile ring	4:10	4:10	3:10	3:10	3:10	R02 5-mile ring	3:10	4:10	3:10
R03 Entire EPZ	4:20	4:20	4:00	4:00	4:00	R03 Entire EPZ	4:20	4:20	4:00	4:00	4:00	R03 Entire EPZ	4:00	4:20	4:00
2-Mile Ring and Downwind to 5 Miles (3 sector groups)															
R04 N	4:10	4:10	3:10	3:10	3:00	R04 N	4:00	4:10	3:10	3:10	3:10	R04 N	3:10	4:10	3:10
R05 NNE	4:00	4:10	3:00	3:00	3:10	R05 NNE	4:00	4:10	3:00	3:10	3:00	R05 NNE	3:00	4:00	3:00
R06 NE	4:00	4:00	3:00	3:00	3:10	R06 NE	4:00	4:10	3:10	3:10	3:10	R06 NE	3:00	4:00	3:00
R07 ENE	4:00	4:00	3:00	3:00	3:00	R07 ENE	4:00	4:00	3:00	3:00	3:00	R07 ENE	3:00	4:00	3:00
R08 E	4:00	4:00	3:00	3:00	3:00	R08 E	4:00	4:00	3:00	3:00	3:00	R08 E	3:00	4:00	3:00
R09 ESE	4:00	4:00	3:00	3:00	3:00	R09 ESE	4:00	4:00	3:00	3:00	3:00	R09 ESE	3:00	4:00	3:00
R10 SE	4:00	4:00	3:00	3:00	3:00	R10 SE	4:00	4:00	3:00	3:00	3:00	R10 SE	3:00	4:00	3:00
R11 SSE, S	4:00	4:00	3:00	3:00	3:00	R11 SSE, S	4:00	4:00	2:50	3:00	3:00	R11 SSE, S	3:00	4:00	3:00
R12 SSW	4:00	4:00	3:00	3:00	3:00	R12 SSW	4:00	4:00	2:50	3:00	3:00	R12 SSW	3:00	4:00	3:00
R13 SW	4:00	4:00	3:00	3:10	3:00	R13 SW	4:00	4:00	3:10	3:10	3:00	R13 SW	3:00	4:00	3:00
R14 WSW	4:10	4:10	3:10	3:10	3:10	R14 WSW	4:00	4:10	3:10	3:10	3:10	R14 WSW	3:10	~~4:00~~ 4:10	3:10
R15 W	4:10	4:10	3:10	3:10	3:10	R15 W	4:00	4:10	3:10	3:10	3:10	R15 W	3:10	~~4:00~~ 4:10	3:10
R16 WNW	4:10	4:10	3:10	3:10	3:10	R16 WNW	4:00	4:10	3:10	3:10	3:10	R16 WNW	3:10	~~4:00~~ 4:10	3:10
R17 NW, NNW	4:10	4:10	3:10	3:10	3:10	R17 NW, NNW	4:00	4:10	3:10	3:10	3:10	R17 NW, NNW	3:10	4:10	3:10
2-Mile Ring and Downwind to EPZ Boundary (3 sector groups)															
R18 N	4:10	4:20	4:00	4:00	4:00	R18 N	4:10	4:10	4:00	4:00	4:00	R18 N	4:00	4:10	4:00
R19 NNE	4:10	4:10	4:00	4:00	3:50	R19 NNE	4:10	4:10	4:00	4:00	4:00	R19 NNE	4:00	4:10	4:00
R20 NE	4:10	4:10	3:50	4:00	3:50	R20 NE	4:10	4:10	3:50	4:00	4:00	R20 NE	3:50	4:10	3:50
R21 ENE	4:00	4:00	3:40	3:40	3:40	R21 ENE	4:00	4:00	3:40	3:40	3:40	R21 ENE	3:40	4:00	3:40
R22 E	4:00	4:00	3:40	3:40	3:40	R22 E	4:00	4:00	3:40	3:40	3:40	R22 E	3:40	4:00	3:40
R23 ESE	4:00	4:00	3:00	3:00	3:00	R23 ESE	4:00	4:00	3:00	3:10	3:00	R23 ESE	3:00	4:00	3:00
R24 SE	4:00	4:00	3:00	3:00	3:00	R24 SE	4:00	4:00	3:00	3:10	3:00	R24 SE	3:00	4:00	3:00
R25 SSE	4:00	4:00	3:00	3:10	3:00	R25 SSE	4:10	4:10	3:10	3:10	3:10	R25 SSE	3:10	~~4:10~~ 4:00	3:00
R26 S	4:00	4:00	3:00	3:10	3:00	R26 S	4:00	4:00	3:00	3:00	3:10	R26 S	3:00	~~4:10~~ 4:00	3:00
R27 SSW	4:00	4:00	3:10	3:10	3:00	R27 SSW	4:00	4:10	3:00	3:00	3:00	R27 SSW	3:00	4:00	3:10
R28 SW	4:00	4:10	3:10	3:10	3:10	R28 SW	4:10	4:10	3:10	3:10	3:10	R28 SW	3:10	~~4:10~~ 4:00	3:10
R29 WSW	4:10	4:10	3:10	3:10	3:10	R29 WSW	4:10	4:10	3:10	3:10	3:10	R29 WSW	3:10	~~4:00~~ 4:10	3:10
R30 W	4:10	4:10	3:50	3:50	4:00	R30 W	4:10	4:10	3:50	3:50	3:50	R30 W	3:50	4:10	3:50
R31 WNW	4:20	4:20	3:50	3:50	4:00	R31 WNW	4:10	4:20	3:50	4:00	4:00	R31 WNW	3:50	4:20	3:50
R32 NW	4:20	4:20	3:50	3:50	3:50	R32 NW	4:20	4:20	3:50	4:00	3:50	R32 NW	3:50	4:20	3:50
R33 NNW	4:10	4:20	4:00	4:00	4:00	R33 NNW	4:10	4:20	4:00	4:00	4:00	R33 NNW	4:00	4:20	4:00

RCOL2_13.03-30

Table J-1D. Time to Clear the Indicated Area of 100 Percent of The Affected Population (page 2 of 2)

	Summer		Summer		Summer		Winter		Winter		Winter		Summer	Summer	Summer
	Midweek		Weekend		Midweek Weekend		Midweek		Weekend		Midweek Weekend		Weekend	Midweek	Weekend
Scenario:	(1)	(2)	(3)	(4)	(5)	Scenario:	(6)	(7)	(8)	(9)	(10)	Scenario:	(11)	(12)	(13)
Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday	Midday	Midday
	Good Weather	Rain	Good Weather	Rain	Good Weather		Good Weather	Rain	Good Weather	Rain	Good Weather		Event in Amphitheatre	New Plant Construction	Granbury 4th of July
2-Mile Ring and Downwind to 5 Miles (5 sector groups)															
R34 N	4:10	4:10	3:10	3:10	3:10	R34 N	4:00	4:10	3:10	3:10	3:10	R34 N	3:10	~~4:00~~ 4:10	3:10
R35 NNE	4:10	4:10	3:10	3:10	3:10	R35 NNE	4:10	4:10	3:10	3:10	3:10	R35 NNE	3:10	4:10	3:10
R36 NE	4:00	4:00	3:00	3:00	3:10	R36 NE	4:00	4:10	3:10	3:00	3:10	R36 NE	3:00	4:00	3:00
R37 ENE	4:00	4:00	3:00	3:00	3:00	R37 ENE	4:00	4:00	3:00	3:00	3:00	R37 ENE	3:10	4:00	3:00
R38 E	4:00	4:00	3:00	3:00	3:00	R38 E	4:00	4:00	3:00	3:00	3:00	R38 E	3:10	4:00	3:00
R39 ESE	4:00	4:00	3:00	3:00	3:00	R39 ESE	4:00	4:00	3:00	3:00	3:00	R39 ESE	3:10	4:00	3:00
R40 SE	4:00	4:00	3:00	3:00	3:00	R40 SE	4:00	4:00	3:00	3:00	3:00	R40 SE	3:10	4:00	3:00
R41 SSE, S	4:00	4:00	3:00	3:00	3:00	R41 SSE, S	4:00	4:00	3:00	3:00	3:00	R41 SSE, S	3:10	4:00	3:00
R42 SSW	4:00	4:00	3:00	3:00	3:00	R42 SSW	4:00	4:00	3:00	3:00	3:00	R42 SSW	3:10	4:00	3:00
R43 SW	4:00	4:00	3:10	3:00	3:10	R43 SW	4:00	4:00	3:10	3:10	3:10	R43 SW	3:10	4:00	3:10
R44 WSW	4:10	4:10	3:10	3:10	3:10	R44 WSW	4:00	4:10	3:10	3:10	3:10	R44 WSW	3:10	~~4:00~~ 4:10	3:10
R45 W	4:10	4:10	3:10	3:10	3:10	R45 W	4:10	4:10	3:10	3:10	3:10	R45 W	3:10	4:10	3:10
R46 WNW	4:10	4:10	3:10	3:10	3:10	R46 WNW	4:10	4:10	3:10	3:10	3:10	R46 WNW	3:10	4:10	3:10
R47 NW, NNW	4:10	4:10	3:10	3:10	3:10	R47 NW, NNW	4:10	4:10	3:10	3:10	3:10	R47 NW, NNW	3:10	4:10	3:10
2-Mile Ring and Downwind to EPZ Boundary (5 sector groups)															
R48 N	4:10	4:20	4:00	4:00	4:00	R48 N	4:20	4:20	4:00	4:00	4:00	R48 N	4:00	4:10	4:00
R49 NNE	4:10	4:20	4:00	4:00	4:00	R49 NNE	4:10	4:20	4:00	4:00	4:00	R49 NNE	4:00	4:10	4:00
R50 NE	4:10	4:10	4:00	4:00	4:00	R50 NE	4:10	4:10	3:50	4:00	4:00	R50 NE	4:00	4:10	4:00
R51 ENE	4:10	4:10	3:50	4:00	3:50	R51 ENE	4:10	4:10	3:50	4:00	4:00	R51 ENE	3:50	4:10	3:50
R52 E	4:10	4:10	3:40	3:40	3:40	R52 E	4:00	4:10	3:40	3:40	3:40	R52 E	3:40	~~4:00~~ 4:10	3:40
R53 ESE	4:10	4:10	3:40	3:40	3:40	R53 ESE	4:00	4:00	3:40	3:40	3:40	R53 ESE	3:40	~~4:00~~ 4:10	3:40
R54 SE	4:00	4:10	3:00	3:10	3:00	R54 SE	4:00	4:10	3:00	3:10	3:00	R54 SE	3:20	~~4:10~~ 4:00	3:10
R55 SSE	4:00	4:00	3:00	3:10	3:00	R55 SSE	4:10	4:10	3:00	3:10	3:10	R55 SSE	3:20	~~4:10~~ 4:00	3:00
R56 S	4:00	4:00	3:10	3:10	3:10	R56 S	4:10	4:00	3:00	3:10	3:10	R56 S	3:20	~~4:10~~ 4:00	3:10
R57 SSW	4:00	4:10	3:10	3:10	3:10	R57 SSW	4:10	4:10	3:10	3:10	3:10	R57 SSW	3:20	~~4:10~~ 4:00	3:10
R58 SW	4:10	4:10	3:10	3:10	3:10	R58 SW	4:10	4:10	3:10	3:10	3:10	R58 SW	3:20	~~4:00~~ 4:10	3:10
R59 WSW	4:10	4:10	3:50	3:50	3:50	R59 WSW	4:10	4:10	3:50	3:50	3:50	R59 WSW	3:50	4:10	3:50
R60 W	4:20	4:20	3:50	3:50	4:00	R60 W	4:10	4:20	3:50	4:00	3:50	R60 W	3:50	~~4:10~~ 4:20	3:50
R61 WNW	4:20	4:20	3:50	4:00	4:00	R61 WNW	4:20	4:20	3:50	3:50	4:00	R61 WNW	3:50	4:20	3:50
R62 NW	4:10	4:20	4:00	4:00	4:00	R62 NW	4:20	4:20	4:00	4:00	4:00	R62 NW	4:00	~~4:20~~ 4:10	4:00
R63 NNW	4:20	4:20	4:00	4:00	4:00	R63 NNW	4:20	4:20	4:00	4:00	4:00	R63 NNW	4:00	4:20	4:00



RCOL2_
13.03-30

Figure J-12. Evacuation Time Estimates
Scenario 12, Region R03 (Entire EPZ)

RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

Comanche Peak, Units 3 and 4

Luminant Generation Company LLC

Docket Nos. 52-034 and 52-035

RAI NO.: 4224 (CP RAI #134)

SRP SECTION: 13.03 - Emergency Planning

QUESTIONS for Licensing and Inspection Branch (NSIR/DPR/LIB) (EP)

DATE OF RAI ISSUE: 1/25/2010

QUESTION NO.: 13.03-31

Open Item 13.03-02: Subject: Demand Estimation, Transient Populations
[Basis: 10 CFR 50 Appendix E (IV); Appendix 4 to NUREG-0654 Sections II.B]
Acceptance Criteria: NUREG-0800, Standard Review Plan, Section 13.3, "Emergency Planning," Requirements A and H; Acceptance Criterion 11

In response to RAI 13.03-20.C, the applicant agreed that the Fourth of July Celebration will be added as a special events scenario. The applicant's response also provided the specific textual changes that will be made to the evacuation time estimate (ETE) text and tables in an updated ETE Report. However, the applicant did not provide updated Tables 7-1A through 7-1D, "Time to Clear the Indicated Area of [X] Percent of the Affected Population." Provide updated Tables 7-1A through 7-1D showing the addition of Scenario 13. Update the ETE accordingly.

ANSWER:

As discussed in Luminant's response to Question 13.03-20, the Fourth of July Celebration in Granbury is no longer treated as a sensitivity study. The Fourth of July Celebration has been added to the ETE Report as a special event and is identified as Scenario 13. The "Impact on R-COLA" section of that response stated that several changes to the ETE report to incorporate Scenario 13 were necessary, but had yet to be completed. The analysis of Scenario 13 has been completed and the following additional changes have been made in Revision 3 of the ETE Report:

- Tables 7-1A through 7-1D include Scenario 13 (Tables 7-1C and 7-1D in the Executive Summary also include Scenario 13)
- Tables J-1A through J-1D include Scenario 13
- Appendix J includes a plot of evacuating vehicles vs. elapsed time after the advisory to evacuate for Scenario 13 as Figure J-13

Additionally, during preparation of ETE Report, Revision 3 it was determined that the proposed addition of Section 3.3.3 provided in the response to Question 13.03-20 required clarification. The Fourth of July Celebration is a two-day event and the total number of attendees varies between 30,000 and 50,000 for the entire two-day event. As described in Luminant's response to Question 13.03-20, Part A, based on information provided in the Environmental Report, a peak one-day estimate of 25,000 transients for the event is used. The associated proposed text included in the response to Question 13.03-20 did not describe the Fourth of July Celebration as a two-day event. The proposed text provided in Luminant's response to Question 13.03-20 has been revised and Revision 3 of the ETE Report includes the attached "Fourth of July Celebration in Granbury" discussion as Section 3.3.3.

Impact on R-COLA

See attached ETE Report draft Revision 3 pages ES-10, ES-11, ES-12, ES-13, 3-12, 6-7, 7-7, 7-8, 7-9, 7-10, 7-11, 7-12, 7-13, 7-14, J-4, J-5, J-6, J-7, J-8, J-9, J-10, J-11, and J-27.

Proposed revisions to the ETE Report require review by State and local governments prior to implementation. The revised ETE Report incorporating the proposed changes described in this response will be submitted to the NRC following State and local concurrence.

Impact on S-COLA

None.

Impact on DCD

None.

RCOL2_13.03-31

Table 7-1C. Time to Clear the Indicated Area of 95 Percent of The Affected Population (page 1 of 2)

	Summer		Summer		Summer		Winter		Winter		Winter		Summer	Summer	Summer
	Midweek		Weekend		Midweek Weekend		Midweek		Weekend		Midweek Weekend		Weekend	Midweek	Weekend
Scenario:	(1)	(2)	(3)	(4)	(5)	Scenario:	(6)	(7)	(8)	(9)	(10)	Scenario:	(11)	(12)	(13)
Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday	Midday	Midday
	Good Weather	Rain	Good Weather	Rain	Good Weather		Good Weather	Rain	Good Weather	Rain	Good Weather		Event in Amphitheatre	New Plant Construction	Granbury 4th of July
Entire 2-Mile Region, 5-Mile Region, and EPZ															
R01 2-mile ring	1:40	1:40	1:30	1:30	1:30	R01 2-mile ring	1:40	1:40	1:30	1:30	1:30	R01 2-mile ring	1:30	2:15	1:30
R02 5-mile ring	2:20	2:20	2:10	2:10	2:00	R02 5-mile ring	2:20	2:20	1:50	1:50	1:50	R02 5-mile ring	2:40	~~2:25~~ 2:20	1:50
R03 Entire EPZ	2:50	2:50	2:10	2:20	2:10	R03 Entire EPZ	2:40	2:40	2:10	2:20	2:10	R03 Entire EPZ	2:30	~~2:45~~ 2:40	3:10
2-Mile Ring and Downwind to 5 Miles (3 sector groups)															
R04 N	2:20	2:20	1:50	1:50	2:00	R04 N	2:20	2:20	1:50	1:50	2:00	R04 N	1:50	2:15	1:50
R05 NNE	2:20	2:20	1:50	1:50	1:50	R05 NNE	2:20	2:20	1:50	1:50	1:50	R05 NNE	1:50	2:15	1:50
R06 NE	2:10	2:10	1:50	1:50	1:50	R06 NE	2:10	2:10	1:50	1:50	1:50	R06 NE	1:45	2:15	1:50
R07 ENE	2:10	2:10	1:40	1:50	1:50	R07 ENE	2:10	2:10	1:50	1:50	1:50	R07 ENE	1:45	2:15	1:40
R08 E	2:00	2:00	1:40	1:40	1:50	R08 E	2:00	2:00	1:40	1:40	1:50	R08 E	1:45	2:15	1:40
R09 ESE	2:00	2:00	1:55	2:00	1:45	R09 ESE	2:10	2:10	1:40	1:50	1:50	R09 ESE	2:50	~~2:20~~ 2:15	1:55
R10 SE	2:00	2:00	1:50	2:00	1:40	R10 SE	2:10	2:10	1:40	1:50	1:50	R10 SE	2:50	2:15	1:50
R11 SSE, S	1:50	2:00	1:45	1:50	1:40	R11 SSE, S	2:00	2:00	1:40	1:40	1:40	R11 SSE, S	2:40	2:15	1:45
R12 SSW	2:00	2:00	1:45	1:50	1:40	R12 SSW	2:00	2:00	1:40	1:40	1:40	R12 SSW	2:40	2:15	1:45
R13 SW	1:50	2:00	1:40	1:40	1:40	R13 SW	1:50	2:00	1:40	1:40	1:40	R13 SW	1:40	2:15	1:40
R14 WSW	2:10	2:10	1:40	1:40	1:50	R14 WSW	2:10	2:10	1:40	1:40	1:50	R14 WSW	1:40	2:20	1:40
R15 W	2:10	2:10	1:40	1:40	1:50	R15 W	2:10	2:10	1:40	1:40	1:50	R15 W	1:40	2:15	1:40
R16 WNW	2:10	2:10	1:40	1:40	1:50	R16 WNW	2:10	2:10	1:40	1:40	1:50	R16 WNW	1:40	2:15	1:40
R17 NW, NNW	2:10	2:10	1:40	1:40	1:50	R17 NW, NNW	2:10	2:10	1:40	1:40	1:50	R17 NW, NNW	1:40	2:15	1:40
2-Mile Ring and Downwind to EPZ Boundary (3 sector groups)															
R18 N	2:50	2:50	2:10	2:20	2:10	R18 N	2:50	2:50	2:10	2:20	2:10	R18 N	2:10	2:40	3:15
R19 NNE	2:50	2:50	2:10	2:20	2:10	R19 NNE	2:50	2:50	2:10	2:20	2:10	R19 NNE	2:10	2:40	3:10
R20 NE	2:40	2:40	2:10	2:10	2:10	R20 NE	2:40	2:40	2:10	2:10	2:10	R20 NE	2:10	~~2:40~~ 2:30	2:20
R21 ENE	2:30	2:30	1:50	1:50	2:00	R21 ENE	2:30	2:30	1:50	2:00	2:00	R21 ENE	1:50	2:20	1:50
R22 E	2:30	2:30	1:50	1:50	2:00	R22 E	2:30	2:30	1:50	1:50	2:00	R22 E	1:50	2:20	1:50
R23 ESE	2:10	2:10	2:00	2:10	1:50	R23 ESE	2:10	2:10	1:50	1:55	1:50	R23 ESE	2:40	2:20	2:00
R24 SE	2:10	2:10	2:00	2:10	1:50	R24 SE	2:10	2:20	1:50	1:55	1:50	R24 SE	2:40	2:20	2:00
R25 SSE	2:10	2:10	1:55	2:05	1:50	R25 SSE	2:10	2:10	1:50	1:55	1:50	R25 SSE	2:40	~~2:35~~ 2:30	1:55
R26 S	2:10	2:10	1:55	2:00	1:50	R26 S	2:10	2:10	1:50	1:50	1:50	R26 S	2:40	~~2:35~~ 2:30	1:55
R27 SSW	2:00	2:05	1:50	2:00	1:50	R27 SSW	2:10	2:10	1:50	1:50	1:50	R27 SSW	2:40	2:40	1:50
R28 SW	2:00	2:00	1:40	1:45	1:40	R28 SW	2:00	2:00	1:40	1:40	1:40	R28 SW	1:40	~~2:30~~ 2:25	1:40
R29 WSW	2:10	2:10	1:50	1:50	1:50	R29 WSW	2:20	2:20	1:50	1:50	1:50	R29 WSW	1:50	2:25	1:50
R30 W	2:40	2:40	2:00	2:00	2:10	R30 W	2:40	2:40	2:00	2:00	2:10	R30 W	2:00	2:25	2:10
R31 WNW	2:40	2:40	2:00	2:00	2:10	R31 WNW	2:40	2:40	2:00	2:00	2:10	R31 WNW	2:00	~~2:30~~ 2:25	2:10
R32 NW	2:40	2:40	2:10	2:10	2:10	R32 NW	2:40	2:50	2:10	2:10	2:10	R32 NW	2:10	2:30	2:15
R33 NNW	2:40	2:50	2:10	2:20	2:10	R33 NNW	2:50	2:50	2:10	2:20	2:10	R33 NNW	2:10	2:40	3:20

RCOL2_13.03-31

Table 7-1C. Time to Clear the Indicated Area of 95 Percent of The Affected Population (page 2 of 2)

	Summer		Summer		Summer		Winter		Winter		Winter		Summer	Summer	Summer
	Midweek		Weekend		Midweek Weekend		Midweek		Weekend		Midweek Weekend		Weekend	Midweek	Weekend
Scenario:	(1)	(2)	(3)	(4)	(5)	Scenario:	(6)	(7)	(8)	(9)	(10)	Scenario:	(11)	(12)	(13)
Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday	Midday	Midday
	Good Weather	Rain	Good Weather	Rain	Good Weather		Good Weather	Rain	Good Weather	Rain	Good Weather		Event in Amphitheatre	New Plant Construction	Granbury 4th of July
2-Mile Ring and Downwind to 5 Miles (5 sector groups)															
R34 N	2:20	2:20	1:50	1:50	2:00	R34 N	2:20	2:20	1:50	1:50	2:00	R34 N	1:50	2:15	1:50
R35 NNE	2:20	2:20	1:50	1:50	1:50	R35 NNE	2:20	2:20	1:50	1:50	1:50	R35 NNE	1:50	2:15	1:50
R36 NE	2:10	2:10	1:50	1:50	1:50	R36 NE	2:10	2:20	1:50	1:50	1:50	R36 NE	1:45	2:15	1:50
R37 ENE	2:10	2:10	1:40	1:50	1:50	R37 ENE	2:20	2:20	1:40	1:50	1:50	R37 ENE	2:10	2:20	1:40
R38 E	2:00	2:00	1:55	2:00	1:50	R38 E	2:10	2:10	1:40	1:50	1:50	R38 E	2:50	~~2:20~~ 2:15	1:55
R39 ESE	2:00	2:00	1:50	2:00	1:45	R39 ESE	2:10	2:10	1:40	1:50	1:40	R39 ESE	2:40	~~2:20~~ 2:15	1:50
R40 SE	2:00	2:00	1:50	1:55	1:40	R40 SE	2:00	2:00	1:40	1:50	1:40	R40 SE	2:50	2:15	1:50
R41 SSE, S	2:00	2:00	1:45	1:50	1:40	R41 SSE, S	2:00	2:00	1:40	1:40	1:40	R41 SSE, S	2:40	2:15	1:45
R42 SSW	2:00	2:00	1:50	1:50	1:40	R42 SSW	2:00	2:10	1:40	1:40	1:40	R42 SSW	2:40	2:20	1:50
R43 SW	2:10	2:10	1:50	1:50	1:40	R43 SW	2:10	2:10	1:40	1:40	1:50	R43 SW	2:40	2:20	1:50
R44 WSW	2:10	2:10	1:40	1:40	1:50	R44 WSW	2:10	2:10	1:40	1:40	1:50	R44 WSW	1:40	2:20	1:40
R45 W	2:20	2:20	1:50	1:50	2:00	R45 W	2:20	2:20	1:50	1:50	2:00	R45 W	1:50	2:20	1:50
R46 WNW	2:20	2:20	1:50	1:50	2:00	R46 WNW	2:20	2:20	1:50	1:50	2:00	R46 WNW	1:50	2:20	1:50
R47 NW, NNW	2:20	2:20	1:50	1:50	2:00	R47 NW, NNW	2:20	2:20	1:50	1:50	2:00	R47 NW, NNW	1:50	2:15	1:50
2-Mile Ring and Downwind to EPZ Boundary (5 sector groups)															
R48 N	2:50	2:50	2:10	2:20	2:10	R48 N	2:50	2:50	2:10	2:20	2:10	R48 N	2:10	2:40	3:20
R49 NNE	2:40	2:40	2:10	2:20	2:10	R49 NNE	2:40	2:50	2:10	2:20	2:10	R49 NNE	2:10	2:40	3:20
R50 NE	2:40	2:40	2:10	2:20	2:10	R50 NE	2:40	2:40	2:10	2:20	2:10	R50 NE	2:10	~~2:40~~ 2:30	3:10
R51 ENE	2:40	2:40	2:10	2:20	2:10	R51 ENE	2:40	2:40	2:10	2:20	2:10	R51 ENE	2:10	~~2:40~~ 2:30	2:30
R52 E	2:30	2:30	2:00	2:10	1:50	R52 E	2:30	2:30	1:50	1:55	1:50	R52 E	2:40	~~2:25~~ 2:20	2:00
R53 ESE	2:20	2:20	2:00	2:00	1:50	R53 ESE	2:30	2:30	1:50	1:55	1:50	R53 ESE	2:40	~~2:25~~ 2:20	2:00
R54 SE	2:10	2:10	2:00	2:10	1:50	R54 SE	2:20	2:20	1:50	1:55	1:50	R54 SE	2:40	~~2:35~~ 2:30	2:00
R55 SSE	2:10	2:10	2:00	2:10	1:50	R55 SSE	2:20	2:20	1:50	1:55	1:50	R55 SSE	2:40	~~2:35~~ 2:30	2:00
R56 S	2:00	2:10	1:55	2:05	1:50	R56 S	2:10	2:10	1:50	1:50	1:50	R56 S	2:50	2:30	1:55
R57 SSW	2:10	2:10	1:55	2:00	1:50	R57 SSW	2:20	2:20	1:50	1:50	1:50	R57 SSW	2:40	~~2:40~~ 2:35	1:55
R58 SW	2:10	2:20	1:50	2:00	1:50	R58 SW	2:20	2:20	1:50	1:50	1:50	R58 SW	2:40	2:40	1:50
R59 WSW	2:30	2:30	1:50	2:00	2:00	R59 WSW	2:30	2:30	2:00	2:00	2:00	R59 WSW	1:50	2:30	2:05
R60 W	2:30	2:30	2:00	2:00	2:00	R60 W	2:30	2:30	2:00	2:00	2:00	R60 W	2:00	~~2:30~~ 2:25	2:10
R61 WNW	2:40	2:40	2:00	2:10	2:10	R61 WNW	2:40	2:40	2:00	2:10	2:10	R61 WNW	2:00	2:30	2:10
R62 NW	2:50	2:50	2:10	2:20	2:10	R62 NW	2:50	2:50	2:10	2:20	2:10	R62 NW	2:10	2:40	3:20
R63 NNW	2:50	2:50	2:10	2:20	2:10	R63 NNW	2:50	2:50	2:10	2:20	2:10	R63 NNW	2:10	2:40	3:20

RCOL2_13.03-31

Table 7-1D. Time to Clear the Indicated Area of 100 Percent of The Affected Population (page 1 of 2)

	Summer		Summer		Summer		Winter		Winter		Winter		Summer	Summer	Summer
	Midweek		Weekend		Midweek Weekend		Midweek		Weekend		Midweek Weekend		Weekend	Midweek	Weekend
Scenario:	(1)	(2)	(3)	(4)	(5)	Scenario:	(6)	(7)	(8)	(9)	(10)	Scenario:	(11)	(12)	(13)
Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday	Midday	Midday
	Good Weather	Rain	Good Weather	Rain	Good Weather		Good Weather	Rain	Good Weather	Rain	Good Weather		Event in Amphitheatre	New Plant Construction	Granbury 4th of July
Entire 2-Mile Region, 5-Mile Region, and EPZ															
R01 2-mile ring	3:50	3:50	2:50	3:00	3:00	R01 2-mile ring	3:50	3:50	2:50	2:50	3:00	R01 2-mile ring	2:50	~~3:40~~ 3:50	2:50
R02 5-mile ring	4:10	4:10	3:10	3:10	3:10	R02 5-mile ring	4:10	4:10	3:10	3:10	3:10	R02 5-mile ring	3:10	4:10	3:10
R03 Entire EPZ	4:20	4:20	4:00	4:00	4:00	R03 Entire EPZ	4:20	4:20	4:00	4:00	4:00	R03 Entire EPZ	4:00	4:20	4:00
2-Mile Ring and Downwind to 5 Miles (3 sector groups)															
R04 N	4:10	4:10	3:10	3:10	3:00	R04 N	4:00	4:10	3:10	3:10	3:10	R04 N	3:10	4:10	3:10
R05 NNE	4:00	4:10	3:00	3:00	3:10	R05 NNE	4:00	4:10	3:00	3:10	3:00	R05 NNE	3:00	4:00	3:00
R06 NE	4:00	4:00	3:00	3:00	3:10	R06 NE	4:00	4:10	3:10	3:10	3:10	R06 NE	3:00	4:00	3:00
R07 ENE	4:00	4:00	3:00	3:00	3:00	R07 ENE	4:00	4:00	3:00	3:00	3:00	R07 ENE	3:00	4:00	3:00
R08 E	4:00	4:00	3:00	3:00	3:00	R08 E	4:00	4:00	3:00	3:00	3:00	R08 E	3:00	4:00	3:00
R09 ESE	4:00	4:00	3:00	3:00	3:00	R09 ESE	4:00	4:00	3:00	3:00	3:00	R09 ESE	3:00	4:00	3:00
R10 SE	4:00	4:00	3:00	3:00	3:00	R10 SE	4:00	4:00	3:00	3:00	3:00	R10 SE	3:00	4:00	3:00
R11 SSE, S	4:00	4:00	3:00	3:00	3:00	R11 SSE, S	4:00	4:00	2:50	3:00	3:00	R11 SSE, S	3:00	4:00	3:00
R12 SSW	4:00	4:00	3:00	3:00	3:00	R12 SSW	4:00	4:00	2:50	3:00	3:00	R12 SSW	3:00	4:00	3:00
R13 SW	4:00	4:00	3:00	3:10	3:00	R13 SW	4:00	4:00	3:10	3:10	3:00	R13 SW	3:00	4:00	3:00
R14 WSW	4:10	4:10	3:10	3:10	3:10	R14 WSW	4:00	4:10	3:10	3:10	3:10	R14 WSW	3:10	~~4:00~~ 4:10	3:10
R15 W	4:10	4:10	3:10	3:10	3:10	R15 W	4:00	4:10	3:10	3:10	3:10	R15 W	3:10	~~4:00~~ 4:10	3:10
R16 WNW	4:10	4:10	3:10	3:10	3:10	R16 WNW	4:00	4:10	3:10	3:10	3:10	R16 WNW	3:10	~~4:00~~ 4:10	3:10
R17 NW, NNW	4:10	4:10	3:10	3:10	3:10	R17 NW, NNW	4:00	4:10	3:10	3:10	3:10	R17 NW, NNW	3:10	4:10	3:10
2-Mile Ring and Downwind to EPZ Boundary (3 sector groups)															
R18 N	4:10	4:20	4:00	4:00	4:00	R18 N	4:10	4:10	4:00	4:00	4:00	R18 N	4:00	4:10	4:00
R19 NNE	4:10	4:10	4:00	4:00	3:50	R19 NNE	4:10	4:10	4:00	4:00	4:00	R19 NNE	4:00	4:10	4:00
R20 NE	4:10	4:10	3:50	4:00	3:50	R20 NE	4:10	4:10	3:50	4:00	4:00	R20 NE	3:50	4:10	3:50
R21 ENE	4:00	4:00	3:40	3:40	3:40	R21 ENE	4:00	4:00	3:40	3:40	3:40	R21 ENE	3:40	4:00	3:40
R22 E	4:00	4:00	3:40	3:40	3:40	R22 E	4:00	4:00	3:40	3:40	3:40	R22 E	3:40	4:00	3:40
R23 ESE	4:00	4:00	3:00	3:00	3:00	R23 ESE	4:00	4:00	3:00	3:10	3:00	R23 ESE	3:00	4:00	3:00
R24 SE	4:00	4:00	3:00	3:00	3:00	R24 SE	4:00	4:00	3:00	3:10	3:00	R24 SE	3:00	4:00	3:00
R25 SSE	4:00	4:00	3:00	3:10	3:00	R25 SSE	4:10	4:10	3:10	3:10	3:10	R25 SSE	3:10	~~4:10~~ 4:00	3:00
R26 S	4:00	4:00	3:00	3:10	3:00	R26 S	4:00	4:00	3:00	3:00	3:10	R26 S	3:00	~~4:10~~ 4:00	3:00
R27 SSW	4:00	4:00	3:10	3:10	3:00	R27 SSW	4:00	4:10	3:00	3:00	3:00	R27 SSW	3:00	4:00	3:10
R28 SW	4:00	4:10	3:10	3:10	3:10	R28 SW	4:10	4:10	3:10	3:10	3:10	R28 SW	3:10	~~4:10~~ 4:00	3:10
R29 WSW	4:10	4:10	3:10	3:10	3:10	R29 WSW	4:10	4:10	3:10	3:10	3:10	R29 WSW	3:10	~~4:00~~ 4:10	3:10
R30 W	4:10	4:10	3:50	3:50	4:00	R30 W	4:10	4:10	3:50	3:50	3:50	R30 W	3:50	4:10	3:50
R31 WNW	4:20	4:20	3:50	3:50	4:00	R31 WNW	4:10	4:20	3:50	4:00	4:00	R31 WNW	3:50	4:20	3:50
R32 NW	4:20	4:20	3:50	3:50	3:50	R32 NW	4:20	4:20	3:50	4:00	3:50	R32 NW	3:50	4:20	3:50
R33 NNW	4:10	4:20	4:00	4:00	4:00	R33 NNW	4:10	4:20	4:00	4:00	4:00	R33 NNW	4:00	4:20	4:00

RCOL2_13.03-31

Table 7-1D. Time to Clear the Indicated Area of 100 Percent of The Affected Population (page 2 of 2)

	Summer		Summer		Summer		Winter		Winter		Winter		Summer	Summer	Summer
	Midweek		Weekend		Midweek Weekend		Midweek		Weekend		Midweek Weekend		Weekend	Midweek	Weekend
Scenario:	(1)	(2)	(3)	(4)	(5)	Scenario:	(6)	(7)	(8)	(9)	(10)	Scenario:	(11)	(12)	(13)
Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday	Midday	Midday
	Good Weather	Rain	Good Weather	Rain	Good Weather		Good Weather	Rain	Good Weather	Rain	Good Weather		Event in Amphitheatre	New Plant Construction	Granbury 4th of July
2-Mile Ring and Downwind to 5 Miles (5 sector groups)															
R34 N	4:10	4:10	3:10	3:10	3:10	R34 N	4:00	4:10	3:10	3:10	3:10	R34 N	3:10	~~4:00~~ 4:10	3:10
R35 NNE	4:10	4:10	3:10	3:10	3:10	R35 NNE	4:10	4:10	3:10	3:10	3:10	R35 NNE	3:10	4:10	3:10
R36 NE	4:00	4:00	3:00	3:00	3:10	R36 NE	4:00	4:10	3:10	3:00	3:10	R36 NE	3:00	4:00	3:00
R37 ENE	4:00	4:00	3:00	3:00	3:00	R37 ENE	4:00	4:00	3:00	3:00	3:00	R37 ENE	3:10	4:00	3:00
R38 E	4:00	4:00	3:00	3:00	3:00	R38 E	4:00	4:00	3:00	3:00	3:00	R38 E	3:10	4:00	3:00
R39 ESE	4:00	4:00	3:00	3:00	3:00	R39 ESE	4:00	4:00	3:00	3:00	3:00	R39 ESE	3:10	4:00	3:00
R40 SE	4:00	4:00	3:00	3:00	3:00	R40 SE	4:00	4:00	3:00	3:00	3:00	R40 SE	3:10	4:00	3:00
R41 SSE, S	4:00	4:00	3:00	3:00	3:00	R41 SSE, S	4:00	4:00	3:00	3:00	3:00	R41 SSE, S	3:10	4:00	3:00
R42 SSW	4:00	4:00	3:00	3:00	3:00	R42 SSW	4:00	4:00	3:00	3:00	3:00	R42 SSW	3:10	4:00	3:00
R43 SW	4:00	4:00	3:10	3:00	3:10	R43 SW	4:00	4:00	3:10	3:10	3:10	R43 SW	3:10	4:00	3:10
R44 WSW	4:10	4:10	3:10	3:10	3:10	R44 WSW	4:00	4:10	3:10	3:10	3:10	R44 WSW	3:10	~~4:00~~ 4:10	3:10
R45 W	4:10	4:10	3:10	3:10	3:10	R45 W	4:10	4:10	3:10	3:10	3:10	R45 W	3:10	4:10	3:10
R46 WNW	4:10	4:10	3:10	3:10	3:10	R46 WNW	4:10	4:10	3:10	3:10	3:10	R46 WNW	3:10	4:10	3:10
R47 NW, NNW	4:10	4:10	3:10	3:10	3:10	R47 NW, NNW	4:10	4:10	3:10	3:10	3:10	R47 NW, NNW	3:10	4:10	3:10
2-Mile Ring and Downwind to EPZ Boundary (5 sector groups)															
R48 N	4:10	4:20	4:00	4:00	4:00	R48 N	4:20	4:20	4:00	4:00	4:00	R48 N	4:00	4:10	4:00
R49 NNE	4:10	4:20	4:00	4:00	4:00	R49 NNE	4:10	4:20	4:00	4:00	4:00	R49 NNE	4:00	4:10	4:00
R50 NE	4:10	4:10	4:00	4:00	4:00	R50 NE	4:10	4:10	3:50	4:00	4:00	R50 NE	4:00	4:10	4:00
R51 ENE	4:10	4:10	3:50	4:00	3:50	R51 ENE	4:10	4:10	3:50	4:00	4:00	R51 ENE	3:50	4:10	3:50
R52 E	4:10	4:10	3:40	3:40	3:40	R52 E	4:00	4:10	3:40	3:40	3:40	R52 E	3:40	~~4:00~~ 4:10	3:40
R53 ESE	4:10	4:10	3:40	3:40	3:40	R53 ESE	4:00	4:00	3:40	3:40	3:40	R53 ESE	3:40	~~4:00~~ 4:10	3:40
R54 SE	4:00	4:10	3:00	3:10	3:00	R54 SE	4:00	4:10	3:00	3:10	3:00	R54 SE	3:20	~~4:10~~ 4:00	3:10
R55 SSE	4:00	4:00	3:00	3:10	3:00	R55 SSE	4:10	4:10	3:00	3:10	3:10	R55 SSE	3:20	~~4:10~~ 4:00	3:00
R56 S	4:00	4:00	3:10	3:10	3:10	R56 S	4:10	4:00	3:00	3:10	3:10	R56 S	3:20	~~4:10~~ 4:00	3:10
R57 SSW	4:00	4:10	3:10	3:10	3:10	R57 SSW	4:10	4:10	3:10	3:10	3:10	R57 SSW	3:20	~~4:10~~ 4:00	3:10
R58 SW	4:10	4:10	3:10	3:10	3:10	R58 SW	4:10	4:10	3:10	3:10	3:10	R58 SW	3:20	~~4:00~~ 4:10	3:10
R59 WSW	4:10	4:10	3:50	3:50	3:50	R59 WSW	4:10	4:10	3:50	3:50	3:50	R59 WSW	3:50	4:10	3:50
R60 W	4:20	4:20	3:50	3:50	4:00	R60 W	4:10	4:20	3:50	4:00	3:50	R60 W	3:50	~~4:10~~ 4:20	3:50
R61 WNW	4:20	4:20	3:50	4:00	4:00	R61 WNW	4:20	4:20	3:50	3:50	4:00	R61 WNW	3:50	4:20	3:50
R62 NW	4:10	4:20	4:00	4:00	4:00	R62 NW	4:20	4:20	4:00	4:00	4:00	R62 NW	4:00	~~4:20~~ 4:10	4:00
R63 NNW	4:20	4:20	4:00	4:00	4:00	R63 NNW	4:20	4:20	4:00	4:00	4:00	R63 NNW	4:00	4:20	4:00

3.3.2 Hotels and Motels

There are 13 major hotels (50 or more rooms) and many smaller motels and cottages, and cabins within the EPZ. The peak attendance at the hotels and motels is estimated as 2,393 people evacuating in 1093 vehicles.

3.3.3 Fourth of July Celebration

RCOL2_ 13.03-31

Granbury hosts a 4th of July celebration each year, with the center of activity around the courthouse square. The celebration is a two-day event. A parade temporarily closes some roadway sections within the city limits. The number of attendees varies (between 30,000 and 50,000 total for the two-day event), according to the weather and day on which the holiday falls. This study assumes a peak transient population of 25,000 people for the 4th of July celebration. Those people attending the event who are not residents of Granbury drive to the event in private vehicles and park on the street and in nearby shopping center parking lots. Many people stay overnight in the area. A special event (Scenario 13) is considered to compute the ETE during this event. It is assumed for this special event that the residents of Granbury (5,700 people – not all are EPZ residents) walk to the event and that each family travelling into the area arrives in one vehicle. From the telephone survey results, the average household size is estimated to be 2.21 persons. The number of additional transient vehicles evacuating during a peak day under these circumstances is therefore:

$$(25{,}000 - 5{,}700) \div 2.21 = 8{,}733.$$

Following an Advisory to Evacuate, Granbury residents will return home, pack their belongings and then evacuate. It is assumed that the time to return home is negligible; as such, the trip generation is not modified for this special event.

Table 6-4. Vehicle Estimates By Scenario										
Scenarios	Residents with Commuters	Residents without Commuters	Employees	Transients	Shadow	Special Events	School Buses	Transit Buses	External Traffic	Total Scenario Vehicles
1	7,874	11,643	1,330	4,665	3,475	-	18	40	2,550 ~~1,700~~	31,595 ~~30,745~~
2	7,874	11,643	1,330	4,665	3,475	-	18	40	2,550 ~~1,700~~	31,595 ~~30,745~~
3	787	18,730	665	5,362	3,364	-	-	40	2,550 ~~1,700~~	31,498 ~~30,648~~
4	787	18,730	665	5,362	3,364	-	-	40	2,550 ~~1,700~~	31,498 ~~30,648~~
5	787	18,730	139	4,343	3,276	-	-	40	1,530 ~~1,020~~	28,845 ~~28,335~~
6	7,874	11,643	1,385	3,539	3,484	-	174	40	2,550 ~~1,700~~	30,689 ~~29,839~~
7	7,874	11,643	1,385	3,539	3,484	-	174	40	2,550 ~~1,700~~	30,689 ~~29,839~~
8	787	18,730	693	4,075	3,369	-	-	40	2,550 ~~1,700~~	30,244 ~~29,394~~
9	787	18,730	693	4,075	3,369	-	-	40	2,550 ~~1,700~~	30,244 ~~29,394~~
10	787	18,730	139	3,485	3,276	-	-	40	1,530 ~~1,020~~	27,987 ~~27,477~~
11	787	18,730	665	5,362	3,364	1,563	-	40	2,550 ~~1,700~~	33,061 ~~32,211~~
12*	~~9,927~~9,012	~~14,742~~13,350	1,330	4,665	~~4,324~~ 3,936	4,202	18	40	2,550 ~~1,700~~	39,103 ~~40,948~~
13	787	18,730	665	5,362	3,364	8,733	-	40	2,550	41,521

RCOL2_ 13.03-31

***Permanent Resident population and Shadow population have been extrapolated to the Year 2015, which is when the construction workforce will be at its peak.**

RCOL2_13.03-31

Table 7-1A. Time to Clear the Indicated Area of 50 Percent of The Affected Population (page 1 of 2)

	Summer		Summer		Summer		Winter		Winter		Winter		Summer	Summer	Summer
	Midweek		Weekend		Midweek Weekend		Midweek		Weekend		Midweek Weekend		Weekend	Midweek	Weekend
Scenario:	(1)	(2)	(3)	(4)	(5)	Scenario:	(6)	(7)	(8)	(9)	(10)	Scenario:	(11)	(12)	(13)
Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday	Midday	Midday
	Good Weather	Rain	Good Weather	Rain	Good Weather		Good Weather	Rain	Good Weather	Rain	Good Weather		Event in Amphitheatre	New Plant Construction	Granbury 4th of July
Entire 2-Mile Region, 5-Mile Region, and EPZ															
R01 2-mile ring	0:45	0:45	0:45	0:45	0:45	R01 2-mile ring	0:45	0:45	0:45	0:45	0:45	R01 2-mile ring	0:45	~~0:45~~ 1:10	0:45
R02 5-mile ring	1:00	1:00	0:55	1:00	0:55	R02 5-mile ring	1:00	1:00	0:55	0:55	0:55	R02 5-mile ring	1:05	~~1:05~~ 1:10	0:55
R03 Entire EPZ	1:10	1:15	1:05	1:10	1:05	R03 Entire EPZ	1:10	1:15	1:05	1:10	1:05	R03 Entire EPZ	1:10	~~1:10~~ 1:20	1:25
2-Mile Ring and Downwind to 5 Miles (3 sector groups)															
R04 N	0:55	0:55	0:55	0:55	0:55	R04 N	0:55	0:55	0:55	0:55	0:55	R04 N	0:55	~~0:55~~ 1:10	0:55
R05 NNE	0:55	0:55	0:50	0:55	0:55	R05 NNE	0:55	0:55	0:50	0:55	0:55	R05 NNE	0:50	~~0:50~~ 1:10	0:50
R06 NE	0:55	0:55	0:50	0:55	0:50	R06 NE	0:55	0:55	0:50	0:55	0:55	R06 NE	0:55	~~0:55~~ 1:05	0:50
R07 ENE	0:55	0:55	0:50	0:50	0:50	R07 ENE	0:55	0:55	0:50	0:50	0:50	R07 ENE	0:55	~~0:55~~ 1:05	0:50
R08 E	0:50	0:50	0:50	0:50	0:50	R08 E	0:50	0:55	0:50	0:50	0:50	R08 E	0:55	~~0:55~~ 1:05	0:50
R09 ESE	0:55	1:00	0:55	1:00	0:55	R09 ESE	0:55	0:55	0:55	0:55	0:50	R09 ESE	1:05	~~1:05~~ 1:10	0:55
R10 SE	0:55	1:00	0:55	1:00	0:55	R10 SE	0:55	0:55	0:55	0:55	0:50	R10 SE	1:05	~~1:05~~ 1:10	0:55
R11 SSE, S	0:55	0:55	0:55	0:55	0:50	R11 SSE, S	0:50	0:50	0:50	0:50	0:50	R11 SSE, S	1:00	~~1:00~~ 1:05	0:55
R12 SSW	0:55	0:55	0:55	0:55	0:50	R12 SSW	0:50	0:50	0:50	0:50	0:50	R12 SSW	1:00	~~1:00~~ 1:05	0:55
R13 SW	0:50	0:50	0:50	0:50	0:50	R13 SW	0:50	0:50	0:50	0:50	0:50	R13 SW	0:50	~~0:50~~ 1:10	0:50
R14 WSW	0:55	0:55	0:50	0:55	0:50	R14 WSW	0:55	0:55	0:50	0:55	0:55	R14 WSW	0:50	~~0:50~~ 1:10	0:50
R15 W	0:55	0:55	0:55	0:55	0:55	R15 W	0:55	0:55	0:55	0:55	0:55	R15 W	0:55	~~0:55~~ 1:10	0:55
R16 WNW	0:55	0:55	0:55	0:55	0:55	R16 WNW	0:55	0:55	0:55	0:55	0:55	R16 WNW	0:55	~~0:55~~ 1:10	0:55
R17 NW, NNW	0:55	0:55	0:55	0:55	0:55	R17 NW, NNW	0:55	0:55	0:55	0:55	0:55	R17 NW, NNW	0:55	~~0:55~~ 1:10	0:55
2-Mile Ring and Downwind to EPZ Boundary (3 sector groups)															
R18 N	1:10	1:15	1:05	1:10	1:05	R18 N	1:10	1:15	1:05	1:10	1:05	R18 N	1:05	~~1:05~~ 1:15	1:30
R19 NNE	1:10	1:10	1:05	1:05	1:05	R19 NNE	1:10	1:10	1:05	1:05	1:05	R19 NNE	1:05	~~1:05~~ 1:15	1:25
R20 NE	1:05	1:05	1:00	1:00	1:00	R20 NE	1:05	1:05	1:00	1:00	1:00	R20 NE	1:00	~~1:00~~ 1:10	1:05
R21 ENE	1:00	1:00	0:55	0:55	0:55	R21 ENE	1:00	1:00	0:55	0:55	0:55	R21 ENE	0:55	~~0:55~~ 1:05	0:55
R22 E	1:00	1:00	0:55	0:55	0:55	R22 E	1:00	1:00	0:55	0:55	0:55	R22 E	0:55	~~0:55~~ 1:05	0:55
R23 ESE	1:00	1:00	1:00	1:00	0:55	R23 ESE	1:00	1:00	0:55	1:00	0:55	R23 ESE	1:05	~~1:05~~ 1:10	1:00
R24 SE	1:00	1:00	1:00	1:00	0:55	R24 SE	1:00	1:00	0:55	1:00	0:55	R24 SE	1:05	~~1:05~~ 1:10	1:00
R25 SSE	1:05	1:05	1:00	1:05	1:00	R25 SSE	1:00	1:05	1:00	1:00	0:55	R25 SSE	1:05	~~1:05~~ 1:15	1:00
R26 S	1:00	1:05	1:00	1:05	0:55	R26 S	0:55	1:00	0:55	1:00	0:50	R26 S	1:05	~~1:05~~ 1:15	1:00
R27 SSW	1:00	1:00	1:00	1:00	0:55	R27 SSW	0:55	1:00	0:55	1:00	0:50	R27 SSW	1:05	~~1:05~~ 1:10	1:00
R28 SW	0:55	1:00	0:55	0:55	0:55	R28 SW	0:55	1:00	0:55	0:55	0:55	R28 SW	0:55	~~0:55~~ 1:15	0:55
R29 WSW	1:00	1:00	0:55	0:55	0:55	R29 WSW	1:00	1:00	0:55	0:55	0:55	R29 WSW	0:55	~~0:55~~ 1:15	0:55
R30 W	1:05	1:05	1:00	1:00	1:00	R30 W	1:05	1:05	1:00	1:00	1:00	R30 W	1:00	~~1:00~~ 1:15	1:05
R31 WNW	1:05	1:05	1:00	1:00	1:00	R31 WNW	1:05	1:05	1:00	1:00	1:00	R31 WNW	1:00	~~1:00~~ 1:15	1:05
R32 NW	1:05	1:05	1:00	1:00	1:00	R32 NW	1:05	1:05	1:00	1:00	1:00	R32 NW	1:00	~~1:00~~ 1:15	1:05
R33 NNW	1:10	1:15	1:05	1:10	1:05	R33 NNW	1:10	1:15	1:05	1:10	1:05	R33 NNW	1:05	~~1:05~~ 1:15	1:35

RCOL2_13.03-31

Table 7-1A. Time to Clear the Indicated Area of 50 Percent of The Affected Population (page 2 of 2)

	Summer		Summer		Summer		Winter		Winter		Winter		Summer	Summer	Summer
	Midweek		Weekend		Midweek Weekend		Midweek		Weekend		Midweek Weekend		Weekend	Midweek	Weekend
Scenario:	(1)	(2)	(3)	(4)	(5)	Scenario:	(6)	(7)	(8)	(9)	(10)	Scenario:	(11)	(12)	(13)
Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday	Midday	Midday
	Good Weather	Rain	Good Weather	Rain	Good Weather		Good Weather	Rain	Good Weather	Rain	Good Weather		Event in Amphitheatre	New Plant Construction	Granbury 4th of July
2-Mile Ring and Downwind to 5 Miles (5 sector groups)															
R34 N	1:00	1:00	0:55	0:55	0:55	R34 N	1:00	1:00	0:55	0:55	0:55	R34 N	0:55	~~0:55~~ 1:10	0:55
R35 NNE	0:55	1:00	0:55	0:55	0:55	R35 NNE	0:55	1:00	0:55	0:55	0:55	R35 NNE	0:55	~~0:55~~ 1:10	0:55
R36 NE	0:55	0:55	0:50	0:55	0:50	R36 NE	0:55	0:55	0:50	0:55	0:55	R36 NE	0:55	~~0:55~~ 1:05	0:50
R37 ENE	0:55	0:55	0:55	0:55	0:50	R37 ENE	0:55	0:55	0:50	0:55	0:50	R37 ENE	0:55	~~0:55~~ 1:05	0:55
R38 E	0:55	1:00	0:55	1:00	0:55	R38 E	0:55	0:55	0:55	0:55	0:50	R38 E	1:05	~~1:05~~ 1:10	0:55
R39 ESE	0:55	0:55	0:55	1:00	0:55	R39 ESE	0:55	0:55	0:50	0:55	0:50	R39 ESE	1:05	~~1:05~~ 1:10	0:55
R40 SE	0:55	0:55	0:55	1:00	0:55	R40 SE	0:55	0:55	0:50	0:55	0:50	R40 SE	1:05	~~1:05~~ 1:10	0:55
R41 SSE, S	0:55	0:55	0:50	0:55	0:50	R41 SSE, S	0:50	0:55	0:50	0:50	0:50	R41 SSE, S	1:00	~~1:00~~ 1:05	0:50
R42 SSW	0:55	0:55	0:55	0:55	0:50	R42 SSW	0:55	0:55	0:50	0:50	0:50	R42 SSW	1:00	~~1:00~~ 1:05	0:55
R43 SW	0:55	0:55	0:55	0:55	0:50	R43 SW	0:55	0:55	0:50	0:55	0:50	R43 SW	1:00	~~1:00~~ 1:05	0:55
R44 WSW	0:55	0:55	0:50	0:55	0:50	R44 WSW	0:55	0:55	0:50	0:55	0:55	R44 WSW	0:50	~~0:50~~ 1:10	0:50
R45 W	1:00	1:00	0:55	0:55	0:55	R45 W	1:00	1:00	0:55	0:55	0:55	R45 W	0:55	~~0:55~~ 1:15	0:55
R46 WNW	1:00	1:00	0:55	0:55	0:55	R46 WNW	1:00	1:00	0:55	0:55	0:55	R46 WNW	0:55	~~0:55~~ 1:15	0:55
R47 NW, NNW	0:55	1:00	0:55	0:55	0:55	R47 NW, NNW	0:55	1:00	0:55	0:55	0:55	R47 NW, NNW	0:55	~~0:55~~ 1:10	0:55
2-Mile Ring and Downwind to EPZ Boundary (5 sector groups)															
R48 N	1:10	1:15	1:05	1:10	1:05	R48 N	1:10	1:15	1:05	1:10	1:05	R48 N	1:05	~~1:05~~ 1:15	1:30
R49 NNE	1:05	1:10	1:05	1:05	1:05	R49 NNE	1:10	1:10	1:05	1:05	1:05	R49 NNE	1:05	~~1:05~~ 1:15	1:25
R50 NE	1:05	1:10	1:00	1:05	1:00	R50 NE	1:05	1:10	1:00	1:05	1:00	R50 NE	1:05	~~1:05~~ 1:15	1:20
R51 ENE	1:05	1:05	1:00	1:00	1:00	R51 ENE	1:05	1:05	1:00	1:00	1:00	R51 ENE	1:00	~~1:00~~ 1:10	1:05
R52 E	1:00	1:05	1:00	1:00	0:55	R52 E	1:00	1:00	0:55	1:00	0:55	R52 E	1:00	~~1:00~~ 1:10	1:00
R53 ESE	1:00	1:05	1:00	1:00	0:55	R53 ESE	1:00	1:00	0:55	1:00	0:55	R53 ESE	1:00	~~1:00~~ 1:10	1:00
R54 SE	1:05	1:05	1:00	1:05	1:00	R54 SE	1:00	1:05	1:00	1:00	0:55	R54 SE	1:05	~~1:05~~ 1:15	1:00
R55 SSE	1:05	1:05	1:00	1:05	1:00	R55 SSE	1:00	1:05	1:00	1:00	0:55	R55 SSE	1:05	~~1:05~~ 1:15	1:00
R56 S	1:00	1:05	1:00	1:05	0:55	R56 S	1:00	1:00	0:55	1:00	0:55	R56 S	1:10	~~1:10~~ 1:15	1:00
R57 SSW	1:00	1:05	1:00	1:05	0:55	R57 SSW	1:00	1:00	0:55	1:00	0:55	R57 SSW	1:05	~~1:05~~ 1:15	1:00
R58 SW	1:00	1:05	1:00	1:00	0:55	R58 SW	1:00	1:00	0:55	1:00	0:55	R58 SW	1:05	~~1:05~~ 1:15	1:00
R59 WSW	1:00	1:05	1:00	1:00	0:55	R59 WSW	1:00	1:05	0:55	1:00	0:55	R59 WSW	1:00	~~1:00~~ 1:15	1:00
R60 W	1:05	1:05	1:00	1:00	1:00	R60 W	1:05	1:05	1:00	1:00	1:00	R60 W	1:00	~~1:00~~ 1:15	1:00
R61 WNW	1:05	1:05	1:00	1:00	1:00	R61 WNW	1:05	1:10	1:00	1:00	1:00	R61 WNW	1:00	~~1:00~~ 1:15	1:05
R62 NW	1:10	1:15	1:05	1:10	1:05	R62 NW	1:10	1:15	1:05	1:10	1:05	R62 NW	1:05	~~1:05~~ 1:20	1:35
R63 NNW	1:10	1:15	1:05	1:10	1:05	R63 NNW	1:10	1:15	1:05	1:10	1:05	R63 NNW	1:05	~~1:05~~ 1:15	1:30

RCOL2_13.03-31

Table 7-1B. Time to Clear the Indicated Area of 90 Percent of The Affected Population (page 1 of 2)

	Summer		Summer		Summer		Winter		Winter		Winter		Summer	Summer	Summer
	Midweek		Weekend		Midweek Weekend		Midweek		Weekend		Midweek Weekend		Weekend	Midweek	Weekend
Scenario:	(1)	(2)	(3)	(4)	(5)	Scenario:	(6)	(7)	(8)	(9)	(10)	Scenario:	(11)	(12)	(13)
Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday	Midday	Midday
	Good Weather	Rain	Good Weather	Rain	Good Weather		Good Weather	Rain	Good Weather	Rain	Good Weather		Event in Amphitheatre	New Plant Construction	Granbury 4th of July
Entire 2-Mile Region, 5-Mile Region, and EPZ															
R01 2-mile ring	1:25	1:25	1:20	1:20	1:25	R01 2-mile ring	1:25	1:25	1:20	1:20	1:25	R01 2-mile ring	1:20	2:05	1:20
R02 5-mile ring	1:50	1:50	1:40	1:50	1:35	R02 5-mile ring	1:50	1:50	1:35	1:40	1:30	R02 5-mile ring	2:20	~~2:15~~ 2:10	1:40
R03 Entire EPZ	2:10	2:15	2:00	2:05	1:55	R03 Entire EPZ	2:10	2:20	1:55	2:00	1:55	R03 Entire EPZ	2:10	~~2:30~~ 2:25	2:50
2-Mile Ring and Downwind to 5 Miles (3 sector groups)															
R04 N	1:50	1:50	1:30	1:35	1:35	R04 N	1:50	1:50	1:30	1:35	1:35	R04 N	1:30	2:05	1:30
R05 NNE	1:50	1:50	1:30	1:30	1:30	R05 NNE	1:50	1:50	1:30	1:30	1:30	R05 NNE	1:30	2:05	1:30
R06 NE	1:50	1:50	1:30	1:30	1:30	R06 NE	1:50	1:50	1:30	1:30	1:30	R06 NE	1:35	2:05	1:30
R07 ENE	1:40	1:40	1:30	1:30	1:30	R07 ENE	1:40	1:40	1:30	1:30	1:30	R07 ENE	1:35	2:05	1:30
R08 E	1:40	1:40	1:30	1:30	1:30	R08 E	1:40	1:40	1:30	1:30	1:30	R08 E	1:35	2:05	1:30
R09 ESE	1:45	1:50	1:45	1:50	1:35	R09 ESE	1:40	1:40	1:35	1:40	1:30	R09 ESE	2:20	~~2:10~~ 2:05	1:45
R10 SE	1:45	1:50	1:40	1:50	1:35	R10 SE	1:40	1:40	1:35	1:40	1:30	R10 SE	2:20	~~2:10~~ 2:05	1:40
R11 SSE, S	1:40	1:40	1:35	1:40	1:30	R11 SSE, S	1:40	1:40	1:25	1:30	1:25	R11 SSE, S	2:20	2:05	1:35
R12 SSW	1:40	1:40	1:35	1:40	1:30	R12 SSW	1:40	1:40	1:25	1:30	1:25	R12 SSW	2:20	2:05	1:35
R13 SW	1:30	1:30	1:25	1:25	1:25	R13 SW	1:30	1:30	1:25	1:25	1:25	R13 SW	1:25	2:10	1:25
R14 WSW	1:40	1:40	1:30	1:30	1:30	R14 WSW	1:40	1:40	1:30	1:30	1:30	R14 WSW	1:30	2:10	1:30
R15 W	1:40	1:40	1:30	1:30	1:30	R15 W	1:40	1:40	1:30	1:30	1:30	R15 W	1:30	2:10	1:30
R16 WNW	1:40	1:40	1:30	1:30	1:30	R16 WNW	1:40	1:40	1:30	1:30	1:30	R16 WNW	1:30	2:10	1:30
R17 NW, NNW	1:40	1:40	1:30	1:30	1:30	R17 NW, NNW	1:40	1:40	1:30	1:30	1:30	R17 NW, NNW	1:30	2:05	1:30
2-Mile Ring and Downwind to EPZ Boundary (3 sector groups)															
R18 N	2:10	2:20	1:55	2:00	1:55	R18 N	2:20	2:20	1:55	2:00	1:55	R18 N	1:55	~~2:25~~ 2:15	3:00
R19 NNE	2:10	2:20	1:55	2:00	1:55	R19 NNE	2:10	2:20	1:55	2:00	1:55	R19 NNE	1:55	~~2:20~~ 2:15	2:50
R20 NE	2:10	2:10	1:50	1:55	1:50	R20 NE	2:10	2:10	1:50	1:55	1:50	R20 NE	1:50	~~2:15~~ 2:10	2:10
R21 ENE	2:00	2:00	1:35	1:35	1:35	R21 ENE	2:00	2:00	1:35	1:40	1:35	R21 ENE	1:40	2:05	1:35
R22 E	2:00	2:00	1:35	1:35	1:35	R22 E	2:00	2:00	1:35	1:35	1:35	R22 E	1:40	2:05	1:35
R23 ESE	1:50	1:55	1:45	1:50	1:40	R23 ESE	1:50	1:50	1:35	1:40	1:35	R23 ESE	2:20	2:10	1:45
R24 SE	1:50	1:55	1:45	1:50	1:40	R24 SE	1:50	1:50	1:35	1:40	1:35	R24 SE	2:20	2:10	1:45
R25 SSE	1:50	1:55	1:45	1:55	1:35	R25 SSE	1:50	1:50	1:35	1:45	1:35	R25 SSE	2:20	~~2:20~~ 2:15	1:45
R26 S	1:45	1:55	1:45	1:55	1:35	R26 S	1:50	1:50	1:35	1:40	1:30	R26 S	2:10	2:15	1:45
R27 SSW	1:45	1:50	1:45	1:50	1:35	R27 SSW	1:45	1:50	1:35	1:40	1:30	R27 SSW	2:20	2:20	1:45
R28 SW	1:40	1:40	1:35	1:35	1:30	R28 SW	1:40	1:45	1:30	1:35	1:30	R28 SW	1:35	~~2:20~~ 2:15	1:35
R29 WSW	1:50	1:50	1:35	1:35	1:35	R29 WSW	1:50	1:50	1:35	1:35	1:35	R29 WSW	1:35	2:15	1:35
R30 W	2:00	2:10	1:40	1:40	1:40	R30 W	2:10	2:10	1:40	1:40	1:40	R30 W	1:40	2:10	1:55
R31 WNW	2:10	2:10	1:40	1:40	1:40	R31 WNW	2:10	2:10	1:40	1:40	1:40	R31 WNW	1:40	2:15	2:00
R32 NW	2:10	2:10	1:40	1:40	1:40	R32 NW	2:10	2:10	1:40	1:40	1:40	R32 NW	1:40	2:15	2:00
R33 NNW	2:10	2:20	1:55	2:05	2:00	R33 NNW	2:10	2:20	1:55	2:05	2:00	R33 NNW	1:55	~~2:25~~ 2:15	3:00

RCOL2_13.03-31

Table 7-1B. Time to Clear the Indicated Area of 90 Percent of The Affected Population (page 2 of 2)

	Summer		Summer		Summer		Winter		Winter		Winter		Summer	Summer	Summer
	Midweek		Weekend		Midweek Weekend		Midweek		Weekend		Midweek Weekend		Weekend	Midweek	Weekend
Scenario:	(1)	(2)	(3)	(4)	(5)	Scenario:	(6)	(7)	(8)	(9)	(10)	Scenario:	(11)	(12)	(13)
Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday	Midday	Midday
	Good Weather	Rain	Good Weather	Rain	Good Weather		Good Weather	Rain	Good Weather	Rain	Good Weather		Event in Amphitheatre	New Plant Construction	Granbury 4th of July
2-Mile Ring and Downwind to 5 Miles (5 sector groups)															
R34 N	1:50	1:50	1:35	1:35	1:35	R34 N	1:50	1:50	1:35	1:35	1:35	R34 N	1:35	2:05	1:35
R35 NNE	1:50	1:50	1:30	1:35	1:35	R35 NNE	1:50	1:50	1:30	1:35	1:35	R35 NNE	1:35	2:05	1:30
R36 NE	1:50	1:50	1:30	1:30	1:30	R36 NE	1:50	1:50	1:30	1:30	1:30	R36 NE	1:35	2:05	1:30
R37 ENE	1:40	1:50	1:35	1:35	1:30	R37 ENE	1:50	1:50	1:30	1:30	1:30	R37 ENE	1:40	~~2:10~~ 2:05	1:35
R38 E	1:45	1:50	1:45	1:50	1:35	R38 E	1:40	1:40	1:35	1:40	1:30	R38 E	2:20	~~2:10~~ 2:05	1:45
R39 ESE	1:45	1:50	1:40	1:50	1:35	R39 ESE	1:40	1:40	1:35	1:40	1:30	R39 ESE	2:20	~~2:10~~ 2:05	1:40
R40 SE	1:40	1:50	1:40	1:45	1:35	R40 SE	1:40	1:40	1:30	1:40	1:30	R40 SE	2:20	~~2:10~~ 2:05	1:40
R41 SSE, S	1:40	1:40	1:35	1:40	1:30	R41 SSE, S	1:40	1:40	1:25	1:30	1:25	R41 SSE, S	2:20	2:05	1:35
R42 SSW	1:40	1:40	1:35	1:40	1:30	R42 SSW	1:40	1:40	1:30	1:30	1:30	R42 SSW	2:20	~~2:10~~ 2:05	1:35
R43 SW	1:40	1:45	1:35	1:40	1:30	R43 SW	1:40	1:40	1:30	1:30	1:30	R43 SW	2:10	~~2:10~~ 2:05	1:35
R44 WSW	1:40	1:40	1:30	1:30	1:30	R44 WSW	1:40	1:40	1:30	1:30	1:30	R44 WSW	1:30	2:10	1:30
R45 W	1:50	1:50	1:35	1:35	1:35	R45 W	1:50	1:50	1:35	1:35	1:35	R45 W	1:35	2:10	1:35
R46 WNW	1:50	1:50	1:35	1:35	1:35	R46 WNW	1:50	1:50	1:35	1:35	1:35	R46 WNW	1:35	2:10	1:35
R47 NW, NNW	1:50	1:50	1:30	1:35	1:35	R47 NW, NNW	1:50	1:50	1:30	1:35	1:35	R47 NW, NNW	1:30	2:05	1:30
2-Mile Ring and Downwind to EPZ Boundary (5 sector groups)															
R48 N	2:20	2:20	2:00	2:05	1:55	R48 N	2:20	2:20	2:00	2:05	1:55	R48 N	2:00	2:20	3:00
R49 NNE	2:10	2:20	1:55	2:00	1:55	R49 NNE	2:10	2:20	1:55	2:00	1:55	R49 NNE	1:55	~~2:20~~ 2:15	3:00
R50 NE	2:10	2:10	1:50	2:00	1:50	R50 NE	2:10	2:15	1:50	2:00	1:50	R50 NE	1:50	~~2:20~~ 2:15	2:50
R51 ENE	2:10	2:10	1:50	2:00	1:50	R51 ENE	2:10	2:10	1:50	2:00	1:50	R51 ENE	1:50	~~2:15~~ 2:10	2:10
R52 E	2:00	2:00	1:45	1:50	1:40	R52 E	2:00	2:00	1:40	1:40	1:35	R52 E	2:10	2:10	1:45
R53 ESE	2:00	2:00	1:45	1:50	1:40	R53 ESE	2:00	2:00	1:40	1:40	1:35	R53 ESE	2:10	2:10	1:45
R54 SE	1:55	2:00	1:50	2:00	1:40	R54 SE	1:50	1:55	1:40	1:45	1:35	R54 SE	2:20	~~2:20~~ 2:15	1:50
R55 SSE	1:55	2:00	1:50	2:00	1:40	R55 SSE	1:50	1:50	1:40	1:45	1:35	R55 SSE	2:20	~~2:20~~ 2:15	1:50
R56 S	1:50	1:55	1:45	1:55	1:35	R56 S	1:50	1:50	1:35	1:45	1:30	R56 S	2:25	2:15	1:45
R57 SSW	1:50	1:55	1:45	1:55	1:35	R57 SSW	1:50	1:50	1:35	1:40	1:30	R57 SSW	2:10	2:20	1:45
R58 SW	1:50	1:55	1:45	1:50	1:35	R58 SW	1:50	1:50	1:35	1:40	1:30	R58 SW	2:10	2:20	1:45
R59 WSW	2:00	2:00	1:40	1:40	1:40	R59 WSW	2:00	2:00	1:40	1:40	1:40	R59 WSW	1:40	~~2:20~~ 2:15	1:50
R60 W	2:00	2:00	1:40	1:40	1:40	R60 W	2:00	2:00	1:40	1:40	1:40	R60 W	1:40	2:15	1:55
R61 WNW	2:10	2:10	1:40	1:40	1:40	R61 WNW	2:10	2:10	1:40	1:40	1:40	R61 WNW	1:40	2:15	2:00
R62 NW	2:10	2:20	2:00	2:05	2:00	R62 NW	2:20	2:20	2:00	2:05	2:00	R62 NW	2:00	~~2:25~~ 2:20	3:00
R63 NNW	2:20	2:20	2:00	2:05	1:55	R63 NNW	2:20	2:20	2:00	2:05	1:55	R63 NNW	2:00	~~2:25~~ 2:20	3:00

RCOL2_13.03-31

Table 7-1C. Time to Clear the Indicated Area of 95 Percent of The Affected Population (page 1 of 2)

	Summer		Summer		Summer		Winter		Winter		Winter		Summer	Summer	Summer
	Midweek		Weekend		Midweek Weekend		Midweek		Weekend		Midweek Weekend		Weekend	Midweek	Weekend
Scenario:	(1)	(2)	(3)	(4)	(5)	Scenario:	(6)	(7)	(8)	(9)	(10)	Scenario:	(11)	(12)	(13)
Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday	Midday	Midday
	Good Weather	Rain	Good Weather	Rain	Good Weather		Good Weather	Rain	Good Weather	Rain	Good Weather		Event in Amphitheatre	New Plant Construction	Granbury 4th of July
Entire 2-Mile Region, 5-Mile Region, and EPZ															
R01 2-mile ring	1:40	1:40	1:30	1:30	1:30	R01 2-mile ring	1:40	1:40	1:30	1:30	1:30	R01 2-mile ring	1:30	2:15	1:30
R02 5-mile ring	2:20	2:20	2:10	2:10	2:00	R02 5-mile ring	2:20	2:20	1:50	1:50	1:50	R02 5-mile ring	2:40	~~2:25~~ 2:20	1:50
R03 Entire EPZ	2:50	2:50	2:10	2:20	2:10	R03 Entire EPZ	2:40	2:40	2:10	2:20	2:10	R03 Entire EPZ	2:30	~~2:45~~ 2:40	3:10
2-Mile Ring and Downwind to 5 Miles (3 sector groups)															
R04 N	2:20	2:20	1:50	1:50	2:00	R04 N	2:20	2:20	1:50	1:50	2:00	R04 N	1:50	2:15	1:50
R05 NNE	2:20	2:20	1:50	1:50	1:50	R05 NNE	2:20	2:20	1:50	1:50	1:50	R05 NNE	1:50	2:15	1:50
R06 NE	2:10	2:10	1:50	1:50	1:50	R06 NE	2:10	2:10	1:50	1:50	1:50	R06 NE	1:45	2:15	1:50
R07 ENE	2:10	2:10	1:40	1:50	1:50	R07 ENE	2:10	2:10	1:50	1:50	1:50	R07 ENE	1:45	2:15	1:40
R08 E	2:00	2:00	1:40	1:40	1:50	R08 E	2:00	2:00	1:40	1:40	1:50	R08 E	1:45	2:15	1:40
R09 ESE	2:00	2:00	1:55	2:00	1:45	R09 ESE	2:10	2:10	1:40	1:50	1:50	R09 ESE	2:50	~~2:20~~ 2:15	1:55
R10 SE	2:00	2:00	1:50	2:00	1:40	R10 SE	2:10	2:10	1:40	1:50	1:50	R10 SE	2:50	2:15	1:50
R11 SSE, S	1:50	2:00	1:45	1:50	1:40	R11 SSE, S	2:00	2:00	1:40	1:40	1:40	R11 SSE, S	2:40	2:15	1:45
R12 SSW	2:00	2:00	1:45	1:50	1:40	R12 SSW	2:00	2:00	1:40	1:40	1:40	R12 SSW	2:40	2:15	1:45
R13 SW	1:50	2:00	1:40	1:40	1:40	R13 SW	1:50	2:00	1:40	1:40	1:40	R13 SW	1:40	2:15	1:40
R14 WSW	2:10	2:10	1:40	1:40	1:50	R14 WSW	2:10	2:10	1:40	1:40	1:50	R14 WSW	1:40	2:20	1:40
R15 W	2:10	2:10	1:40	1:40	1:50	R15 W	2:10	2:10	1:40	1:40	1:50	R15 W	1:40	2:15	1:40
R16 WNW	2:10	2:10	1:40	1:40	1:50	R16 WNW	2:10	2:10	1:40	1:40	1:50	R16 WNW	1:40	2:15	1:40
R17 NW, NNW	2:10	2:10	1:40	1:40	1:50	R17 NW, NNW	2:10	2:10	1:40	1:40	1:50	R17 NW, NNW	1:40	2:15	1:40
2-Mile Ring and Downwind to EPZ Boundary (3 sector groups)															
R18 N	2:50	2:50	2:10	2:20	2:10	R18 N	2:50	2:50	2:10	2:20	2:10	R18 N	2:10	2:40	3:15
R19 NNE	2:50	2:50	2:10	2:20	2:10	R19 NNE	2:50	2:50	2:10	2:20	2:10	R19 NNE	2:10	2:40	3:10
R20 NE	2:40	2:40	2:10	2:10	2:10	R20 NE	2:40	2:40	2:10	2:10	2:10	R20 NE	2:10	~~2:40~~ 2:30	2:20
R21 ENE	2:30	2:30	1:50	1:50	2:00	R21 ENE	2:30	2:30	1:50	2:00	2:00	R21 ENE	1:50	2:20	1:50
R22 E	2:30	2:30	1:50	1:50	2:00	R22 E	2:30	2:30	1:50	1:50	2:00	R22 E	1:50	2:20	1:50
R23 ESE	2:10	2:10	2:00	2:10	1:50	R23 ESE	2:10	2:10	1:50	1:55	1:50	R23 ESE	2:40	2:20	2:00
R24 SE	2:10	2:10	2:00	2:10	1:50	R24 SE	2:10	2:20	1:50	1:55	1:50	R24 SE	2:40	2:20	2:00
R25 SSE	2:10	2:10	1:55	2:05	1:50	R25 SSE	2:10	2:10	1:50	1:55	1:50	R25 SSE	2:40	~~2:35~~ 2:30	1:55
R26 S	2:10	2:10	1:55	2:00	1:50	R26 S	2:10	2:10	1:50	1:50	1:50	R26 S	2:40	~~2:35~~ 2:30	1:55
R27 SSW	2:00	2:05	1:50	2:00	1:50	R27 SSW	2:10	2:10	1:50	1:50	1:50	R27 SSW	2:40	2:40	1:50
R28 SW	2:00	2:00	1:40	1:45	1:40	R28 SW	2:00	2:00	1:40	1:40	1:40	R28 SW	1:40	~~2:30~~ 2:25	1:40
R29 WSW	2:10	2:10	1:50	1:50	1:50	R29 WSW	2:20	2:20	1:50	1:50	1:50	R29 WSW	1:50	2:25	1:50
R30 W	2:40	2:40	2:00	2:00	2:10	R30 W	2:40	2:40	2:00	2:00	2:10	R30 W	2:00	2:25	2:10
R31 WNW	2:40	2:40	2:00	2:00	2:10	R31 WNW	2:40	2:40	2:00	2:00	2:10	R31 WNW	2:00	~~2:30~~ 2:25	2:10
R32 NW	2:40	2:40	2:10	2:10	2:10	R32 NW	2:40	2:50	2:10	2:10	2:10	R32 NW	2:10	2:30	2:15
R33 NNW	2:40	2:50	2:10	2:20	2:10	R33 NNW	2:50	2:50	2:10	2:20	2:10	R33 NNW	2:10	2:40	3:20

RCOL2_13.03-31

Table 7-1C. Time to Clear the Indicated Area of 95 Percent of The Affected Population (page 2 of 2)

	Summer		Summer		Summer		Winter		Winter		Winter		Summer	Summer	Summer
	Midweek		Weekend		Midweek Weekend		Midweek		Weekend		Midweek Weekend		Weekend	Midweek	Weekend
Scenario:	(1)	(2)	(3)	(4)	(5)	Scenario:	(6)	(7)	(8)	(9)	(10)	Scenario:	(11)	(12)	(13)
Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday	Midday	Midday
	Good Weather	Rain	Good Weather	Rain	Good Weather		Good Weather	Rain	Good Weather	Rain	Good Weather		Event in Amphitheatre	New Plant Construction	Granbury 4th of July
2-Mile Ring and Downwind to 5 Miles (5 sector groups)															
R34 N	2:20	2:20	1:50	1:50	2:00	R34 N	2:20	2:20	1:50	1:50	2:00	R34 N	1:50	2:15	1:50
R35 NNE	2:20	2:20	1:50	1:50	1:50	R35 NNE	2:20	2:20	1:50	1:50	1:50	R35 NNE	1:50	2:15	1:50
R36 NE	2:10	2:10	1:50	1:50	1:50	R36 NE	2:10	2:20	1:50	1:50	1:50	R36 NE	1:45	2:15	1:50
R37 ENE	2:10	2:10	1:40	1:50	1:50	R37 ENE	2:20	2:20	1:40	1:50	1:50	R37 ENE	2:10	2:20	1:40
R38 E	2:00	2:00	1:55	2:00	1:50	R38 E	2:10	2:10	1:40	1:50	1:50	R38 E	2:50	~~2:20~~ 2:15	1:55
R39 ESE	2:00	2:00	1:50	2:00	1:45	R39 ESE	2:10	2:10	1:40	1:50	1:40	R39 ESE	2:40	~~2:20~~ 2:15	1:50
R40 SE	2:00	2:00	1:50	1:55	1:40	R40 SE	2:00	2:00	1:40	1:50	1:40	R40 SE	2:50	2:15	1:50
R41 SSE, S	2:00	2:00	1:45	1:50	1:40	R41 SSE, S	2:00	2:00	1:40	1:40	1:40	R41 SSE, S	2:40	2:15	1:45
R42 SSW	2:00	2:00	1:50	1:50	1:40	R42 SSW	2:00	2:10	1:40	1:40	1:40	R42 SSW	2:40	2:20	1:50
R43 SW	2:10	2:10	1:50	1:50	1:40	R43 SW	2:10	2:10	1:40	1:40	1:50	R43 SW	2:40	2:20	1:50
R44 WSW	2:10	2:10	1:40	1:40	1:50	R44 WSW	2:10	2:10	1:40	1:40	1:50	R44 WSW	1:40	2:20	1:40
R45 W	2:20	2:20	1:50	1:50	2:00	R45 W	2:20	2:20	1:50	1:50	2:00	R45 W	1:50	2:20	1:50
R46 WNW	2:20	2:20	1:50	1:50	2:00	R46 WNW	2:20	2:20	1:50	1:50	2:00	R46 WNW	1:50	2:20	1:50
R47 NW, NNW	2:20	2:20	1:50	1:50	2:00	R47 NW, NNW	2:20	2:20	1:50	1:50	2:00	R47 NW, NNW	1:50	2:15	1:50
2-Mile Ring and Downwind to EPZ Boundary (5 sector groups)															
R48 N	2:50	2:50	2:10	2:20	2:10	R48 N	2:50	2:50	2:10	2:20	2:10	R48 N	2:10	2:40	3:20
R49 NNE	2:40	2:40	2:10	2:20	2:10	R49 NNE	2:40	2:50	2:10	2:20	2:10	R49 NNE	2:10	2:40	3:20
R50 NE	2:40	2:40	2:10	2:20	2:10	R50 NE	2:40	2:40	2:10	2:20	2:10	R50 NE	2:10	~~2:40~~ 2:30	3:10
R51 ENE	2:40	2:40	2:10	2:20	2:10	R51 ENE	2:40	2:40	2:10	2:20	2:10	R51 ENE	2:10	~~2:40~~ 2:30	2:30
R52 E	2:30	2:30	2:00	2:10	1:50	R52 E	2:30	2:30	1:50	1:55	1:50	R52 E	2:40	~~2:25~~ 2:20	2:00
R53 ESE	2:20	2:20	2:00	2:00	1:50	R53 ESE	2:30	2:30	1:50	1:55	1:50	R53 ESE	2:40	~~2:25~~ 2:20	2:00
R54 SE	2:10	2:10	2:00	2:10	1:50	R54 SE	2:20	2:20	1:50	1:55	1:50	R54 SE	2:40	~~2:35~~ 2:30	2:00
R55 SSE	2:10	2:10	2:00	2:10	1:50	R55 SSE	2:20	2:20	1:50	1:55	1:50	R55 SSE	2:40	~~2:35~~ 2:30	2:00
R56 S	2:00	2:10	1:55	2:05	1:50	R56 S	2:10	2:10	1:50	1:50	1:50	R56 S	2:50	2:30	1:55
R57 SSW	2:10	2:10	1:55	2:00	1:50	R57 SSW	2:20	2:20	1:50	1:50	1:50	R57 SSW	2:40	~~2:40~~ 2:35	1:55
R58 SW	2:10	2:20	1:50	2:00	1:50	R58 SW	2:20	2:20	1:50	1:50	1:50	R58 SW	2:40	2:40	1:50
R59 WSW	2:30	2:30	1:50	2:00	2:00	R59 WSW	2:30	2:30	2:00	2:00	2:00	R59 WSW	1:50	2:30	2:05
R60 W	2:30	2:30	2:00	2:00	2:00	R60 W	2:30	2:30	2:00	2:00	2:00	R60 W	2:00	~~2:30~~ 2:25	2:10
R61 WNW	2:40	2:40	2:00	2:10	2:10	R61 WNW	2:40	2:40	2:00	2:10	2:10	R61 WNW	2:00	2:30	2:10
R62 NW	2:50	2:50	2:10	2:20	2:10	R62 NW	2:50	2:50	2:10	2:20	2:10	R62 NW	2:10	2:40	3:20
R63 NNW	2:50	2:50	2:10	2:20	2:10	R63 NNW	2:50	2:50	2:10	2:20	2:10	R63 NNW	2:10	2:40	3:20

RCOL2_13.03-31

Table 7-1D. Time to Clear the Indicated Area of 100 Percent of The Affected Population (page 1 of 2)

	Summer		Summer		Summer		Winter		Winter		Winter		Summer	Summer	Summer
	Midweek		Weekend		Midweek Weekend		Midweek		Weekend		Midweek Weekend		Weekend	Midweek	Weekend
Scenario:	(1)	(2)	(3)	(4)	(5)	Scenario:	(6)	(7)	(8)	(9)	(10)	Scenario:	(11)	(12)	(13)
Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday	Midday	Midday
	Good Weather	Rain	Good Weather	Rain	Good Weather		Good Weather	Rain	Good Weather	Rain	Good Weather		Event in Amphitheatre	New Plant Construction	Granbury 4th of July
Entire 2-Mile Region, 5-Mile Region, and EPZ															
R01 2-mile ring	3:50	3:50	2:50	3:00	3:00	R01 2-mile ring	3:50	3:50	2:50	2:50	3:00	R01 2-mile ring	2:50	~~3:40~~ 3:50	2:50
R02 5-mile ring	4:10	4:10	3:10	3:10	3:10	R02 5-mile ring	4:10	4:10	3:10	3:10	3:10	R02 5-mile ring	3:10	4:10	3:10
R03 Entire EPZ	4:20	4:20	4:00	4:00	4:00	R03 Entire EPZ	4:20	4:20	4:00	4:00	4:00	R03 Entire EPZ	4:00	4:20	4:00
2-Mile Ring and Downwind to 5 Miles (3 sector groups)															
R04 N	4:10	4:10	3:10	3:10	3:00	R04 N	4:00	4:10	3:10	3:10	3:10	R04 N	3:10	4:10	3:10
R05 NNE	4:00	4:10	3:00	3:00	3:10	R05 NNE	4:00	4:10	3:00	3:10	3:00	R05 NNE	3:00	4:00	3:00
R06 NE	4:00	4:00	3:00	3:00	3:10	R06 NE	4:00	4:10	3:10	3:10	3:10	R06 NE	3:00	4:00	3:00
R07 ENE	4:00	4:00	3:00	3:00	3:00	R07 ENE	4:00	4:00	3:00	3:00	3:00	R07 ENE	3:00	4:00	3:00
R08 E	4:00	4:00	3:00	3:00	3:00	R08 E	4:00	4:00	3:00	3:00	3:00	R08 E	3:00	4:00	3:00
R09 ESE	4:00	4:00	3:00	3:00	3:00	R09 ESE	4:00	4:00	3:00	3:00	3:00	R09 ESE	3:00	4:00	3:00
R10 SE	4:00	4:00	3:00	3:00	3:00	R10 SE	4:00	4:00	3:00	3:00	3:00	R10 SE	3:00	4:00	3:00
R11 SSE, S	4:00	4:00	3:00	3:00	3:00	R11 SSE, S	4:00	4:00	2:50	3:00	3:00	R11 SSE, S	3:00	4:00	3:00
R12 SSW	4:00	4:00	3:00	3:00	3:00	R12 SSW	4:00	4:00	2:50	3:00	3:00	R12 SSW	3:00	4:00	3:00
R13 SW	4:00	4:00	3:00	3:10	3:00	R13 SW	4:00	4:00	3:10	3:10	3:00	R13 SW	3:00	4:00	3:00
R14 WSW	4:10	4:10	3:10	3:10	3:10	R14 WSW	4:00	4:10	3:10	3:10	3:10	R14 WSW	3:10	~~4:00~~ 4:10	3:10
R15 W	4:10	4:10	3:10	3:10	3:10	R15 W	4:00	4:10	3:10	3:10	3:10	R15 W	3:10	~~4:00~~ 4:10	3:10
R16 WNW	4:10	4:10	3:10	3:10	3:10	R16 WNW	4:00	4:10	3:10	3:10	3:10	R16 WNW	3:10	~~4:00~~ 4:10	3:10
R17 NW, NNW	4:10	4:10	3:10	3:10	3:10	R17 NW, NNW	4:00	4:10	3:10	3:10	3:10	R17 NW, NNW	3:10	4:10	3:10
2-Mile Ring and Downwind to EPZ Boundary (3 sector groups)															
R18 N	4:10	4:20	4:00	4:00	4:00	R18 N	4:10	4:10	4:00	4:00	4:00	R18 N	4:00	4:10	4:00
R19 NNE	4:10	4:10	4:00	4:00	3:50	R19 NNE	4:10	4:10	4:00	4:00	4:00	R19 NNE	4:00	4:10	4:00
R20 NE	4:10	4:10	3:50	4:00	3:50	R20 NE	4:10	4:10	3:50	4:00	4:00	R20 NE	3:50	4:10	3:50
R21 ENE	4:00	4:00	3:40	3:40	3:40	R21 ENE	4:00	4:00	3:40	3:40	3:40	R21 ENE	3:40	4:00	3:40
R22 E	4:00	4:00	3:40	3:40	3:40	R22 E	4:00	4:00	3:40	3:40	3:40	R22 E	3:40	4:00	3:40
R23 ESE	4:00	4:00	3:00	3:00	3:00	R23 ESE	4:00	4:00	3:00	3:10	3:00	R23 ESE	3:00	4:00	3:00
R24 SE	4:00	4:00	3:00	3:00	3:00	R24 SE	4:00	4:00	3:00	3:10	3:00	R24 SE	3:00	4:00	3:00
R25 SSE	4:00	4:00	3:00	3:10	3:00	R25 SSE	4:10	4:10	3:10	3:10	3:10	R25 SSE	3:10	~~4:10~~ 4:00	3:00
R26 S	4:00	4:00	3:00	3:10	3:00	R26 S	4:00	4:00	3:00	3:00	3:10	R26 S	3:00	~~4:10~~ 4:00	3:00
R27 SSW	4:00	4:00	3:10	3:10	3:00	R27 SSW	4:00	4:10	3:00	3:00	3:00	R27 SSW	3:00	4:00	3:10
R28 SW	4:00	4:10	3:10	3:10	3:10	R28 SW	4:10	4:10	3:10	3:10	3:10	R28 SW	3:10	~~4:10~~ 4:00	3:10
R29 WSW	4:10	4:10	3:10	3:10	3:10	R29 WSW	4:10	4:10	3:10	3:10	3:10	R29 WSW	3:10	~~4:00~~ 4:10	3:10
R30 W	4:10	4:10	3:50	3:50	4:00	R30 W	4:10	4:10	3:50	3:50	3:50	R30 W	3:50	4:10	3:50
R31 WNW	4:20	4:20	3:50	3:50	4:00	R31 WNW	4:10	4:20	3:50	4:00	4:00	R31 WNW	3:50	4:20	3:50
R32 NW	4:20	4:20	3:50	3:50	3:50	R32 NW	4:20	4:20	3:50	4:00	3:50	R32 NW	3:50	4:20	3:50
R33 NNW	4:10	4:20	4:00	4:00	4:00	R33 NNW	4:10	4:20	4:00	4:00	4:00	R33 NNW	4:00	4:20	4:00

RCOL2_13.03-31

Table 7-1D. Time to Clear the Indicated Area of 100 Percent of The Affected Population (page 2 of 2)

	Summer		Summer		Summer		Winter		Winter		Winter		Summer	Summer	Summer
	Midweek		Weekend		Midweek Weekend		Midweek		Weekend		Midweek Weekend		Weekend	Midweek	Weekend
Scenario:	(1)	(2)	(3)	(4)	(5)	Scenario:	(6)	(7)	(8)	(9)	(10)	Scenario:	(11)	(12)	(13)
	Midday		Midday		Evening		Midday		Midday		Evening		Midday	Midday	Midday
Region Wind Toward:	Good Weather	Rain	Good Weather	Rain	Good Weather	Region Wind Toward:	Good Weather	Rain	Good Weather	Rain	Good Weather	Region Wind Toward:	Event in Amphitheatre	New Plant Construction	Granbury 4th of July
2-Mile Ring and Downwind to 5 Miles (5 sector groups)															
R34 N	4:10	4:10	3:10	3:10	3:10	R34 N	4:00	4:10	3:10	3:10	3:10	R34 N	3:10	~~4:00~~ 4:10	3:10
R35 NNE	4:10	4:10	3:10	3:10	3:10	R35 NNE	4:10	4:10	3:10	3:10	3:10	R35 NNE	3:10	4:10	3:10
R36 NE	4:00	4:00	3:00	3:00	3:10	R36 NE	4:00	4:10	3:10	3:00	3:10	R36 NE	3:00	4:00	3:00
R37 ENE	4:00	4:00	3:00	3:00	3:00	R37 ENE	4:00	4:00	3:00	3:00	3:00	R37 ENE	3:10	4:00	3:00
R38 E	4:00	4:00	3:00	3:00	3:00	R38 E	4:00	4:00	3:00	3:00	3:00	R38 E	3:10	4:00	3:00
R39 ESE	4:00	4:00	3:00	3:00	3:00	R39 ESE	4:00	4:00	3:00	3:00	3:00	R39 ESE	3:10	4:00	3:00
R40 SE	4:00	4:00	3:00	3:00	3:00	R40 SE	4:00	4:00	3:00	3:00	3:00	R40 SE	3:10	4:00	3:00
R41 SSE, S	4:00	4:00	3:00	3:00	3:00	R41 SSE, S	4:00	4:00	3:00	3:00	3:00	R41 SSE, S	3:10	4:00	3:00
R42 SSW	4:00	4:00	3:00	3:00	3:00	R42 SSW	4:00	4:00	3:00	3:00	3:00	R42 SSW	3:10	4:00	3:00
R43 SW	4:00	4:00	3:10	3:00	3:10	R43 SW	4:00	4:00	3:10	3:10	3:10	R43 SW	3:10	4:00	3:10
R44 WSW	4:10	4:10	3:10	3:10	3:10	R44 WSW	4:00	4:10	3:10	3:10	3:10	R44 WSW	3:10	~~4:00~~ 4:10	3:10
R45 W	4:10	4:10	3:10	3:10	3:10	R45 W	4:10	4:10	3:10	3:10	3:10	R45 W	3:10	4:10	3:10
R46 WNW	4:10	4:10	3:10	3:10	3:10	R46 WNW	4:10	4:10	3:10	3:10	3:10	R46 WNW	3:10	4:10	3:10
R47 NW, NNW	4:10	4:10	3:10	3:10	3:10	R47 NW, NNW	4:10	4:10	3:10	3:10	3:10	R47 NW, NNW	3:10	4:10	3:10
2-Mile Ring and Downwind to EPZ Boundary (5 sector groups)															
R48 N	4:10	4:20	4:00	4:00	4:00	R48 N	4:20	4:20	4:00	4:00	4:00	R48 N	4:00	4:10	4:00
R49 NNE	4:10	4:20	4:00	4:00	4:00	R49 NNE	4:10	4:20	4:00	4:00	4:00	R49 NNE	4:00	4:10	4:00
R50 NE	4:10	4:10	4:00	4:00	4:00	R50 NE	4:10	4:10	3:50	4:00	4:00	R50 NE	4:00	4:10	4:00
R51 ENE	4:10	4:10	3:50	4:00	3:50	R51 ENE	4:10	4:10	3:50	4:00	4:00	R51 ENE	3:50	4:10	3:50
R52 E	4:10	4:10	3:40	3:40	3:40	R52 E	4:00	4:10	3:40	3:40	3:40	R52 E	3:40	~~4:00~~ 4:10	3:40
R53 ESE	4:10	4:10	3:40	3:40	3:40	R53 ESE	4:00	4:00	3:40	3:40	3:40	R53 ESE	3:40	~~4:00~~ 4:10	3:40
R54 SE	4:00	4:10	3:00	3:10	3:00	R54 SE	4:00	4:10	3:00	3:10	3:00	R54 SE	3:20	~~4:10~~ 4:00	3:10
R55 SSE	4:00	4:00	3:00	3:10	3:00	R55 SSE	4:10	4:10	3:00	3:10	3:10	R55 SSE	3:20	~~4:10~~ 4:00	3:00
R56 S	4:00	4:00	3:10	3:10	3:10	R56 S	4:10	4:00	3:00	3:10	3:10	R56 S	3:20	~~4:10~~ 4:00	3:10
R57 SSW	4:00	4:10	3:10	3:10	3:10	R57 SSW	4:10	4:10	3:10	3:10	3:10	R57 SSW	3:20	~~4:10~~ 4:00	3:10
R58 SW	4:10	4:10	3:10	3:10	3:10	R58 SW	4:10	4:10	3:10	3:10	3:10	R58 SW	3:20	~~4:00~~ 4:10	3:10
R59 WSW	4:10	4:10	3:50	3:50	3:50	R59 WSW	4:10	4:10	3:50	3:50	3:50	R59 WSW	3:50	4:10	3:50
R60 W	4:20	4:20	3:50	3:50	4:00	R60 W	4:10	4:20	3:50	4:00	3:50	R60 W	3:50	~~4:10~~ 4:20	3:50
R61 WNW	4:20	4:20	3:50	4:00	4:00	R61 WNW	4:20	4:20	3:50	3:50	4:00	R61 WNW	3:50	4:20	3:50
R62 NW	4:10	4:20	4:00	4:00	4:00	R62 NW	4:20	4:20	4:00	4:00	4:00	R62 NW	4:00	~~4:20~~ 4:10	4:00
R63 NNW	4:20	4:20	4:00	4:00	4:00	R63 NNW	4:20	4:20	4:00	4:00	4:00	R63 NNW	4:00	4:20	4:00

RCOL2_13.03-31

Table J-1A. Time to Clear the Indicated Area of 50 Percent of The Affected Population (page 1 of 2)

	Summer		Summer		Summer		Winter		Winter		Winter		Summer	Summer	Summer
	Midweek		Weekend		Midweek Weekend		Midweek		Weekend		Midweek Weekend		Weekend	Midweek	Weekend
Scenario:	(1)	(2)	(3)	(4)	(5)	Scenario:	(6)	(7)	(8)	(9)	(10)	Scenario:	(11)	(12)	(13)
Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday	Midday	Midday
	Good Weather	Rain	Good Weather	Rain	Good Weather		Good Weather	Rain	Good Weather	Rain	Good Weather		Event In Amphitheatre	New Plant Construction	Granbury 4th of July
Entire 2-Mile Region, 5-Mile Region, and EPZ															
R01 2-mile ring	0:45	0:45	0:45	0:45	0:45	R01 2-mile ring	0:45	0:45	0:45	0:45	0:45	R01 2-mile ring	0:45	~~0:45~~ 1:10	0:45
R02 5-mile ring	1:00	1:00	0:55	1:00	0:55	R02 5-mile ring	1:00	1:00	0:55	0:55	0:55	R02 5-mile ring	1:05	~~1:05~~ 1:10	0:55
R03 Entire EPZ	1:10	1:15	1:05	1:10	1:05	R03 Entire EPZ	1:10	1:15	1:05	1:10	1:05	R03 Entire EPZ	1:10	~~1:10~~ 1:20	1:25
2-Mile Ring and Downwind to 5 Miles (3 sector groups)															
R04 N	0:55	0:55	0:55	0:55	0:55	R04 N	0:55	0:55	0:55	0:55	0:55	R04 N	0:55	~~0:55~~ 1:10	0:55
R05 NNE	0:55	0:55	0:50	0:55	0:55	R05 NNE	0:55	0:55	0:50	0:55	0:55	R05 NNE	0:50	~~0:50~~ 1:10	0:50
R06 NE	0:55	0:55	0:50	0:55	0:50	R06 NE	0:55	0:55	0:50	0:55	0:55	R06 NE	0:55	~~0:55~~ 1:05	0:50
R07 ENE	0:55	0:55	0:50	0:50	0:50	R07 ENE	0:55	0:55	0:50	0:50	0:50	R07 ENE	0:55	~~0:55~~ 1:05	0:50
R08 E	0:50	0:50	0:50	0:50	0:50	R08 E	0:50	0:55	0:50	0:50	0:50	R08 E	0:55	~~0:55~~ 1:05	0:50
R09 ESE	0:55	1:00	0:55	1:00	0:55	R09 ESE	0:55	0:55	0:55	0:55	0:50	R09 ESE	1:05	~~1:05~~ 1:10	0:55
R10 SE	0:55	1:00	0:55	1:00	0:55	R10 SE	0:55	0:55	0:55	0:55	0:50	R10 SE	1:05	~~1:05~~ 1:10	0:55
R11 SSE, S	0:55	0:55	0:55	0:55	0:50	R11 SSE, S	0:50	0:50	0:50	0:50	0:50	R11 SSE, S	1:00	~~1:00~~ 1:05	0:55
R12 SSW	0:55	0:55	0:55	0:55	0:50	R12 SSW	0:50	0:50	0:50	0:50	0:50	R12 SSW	1:00	~~1:00~~ 1:05	0:55
R13 SW	0:50	0:50	0:50	0:50	0:50	R13 SW	0:50	0:50	0:50	0:50	0:50	R13 SW	0:50	~~0:50~~ 1:10	0:50
R14 WSW	0:55	0:55	0:50	0:55	0:50	R14 WSW	0:55	0:55	0:50	0:55	0:55	R14 WSW	0:50	~~0:50~~ 1:10	0:50
R15 W	0:55	0:55	0:55	0:55	0:55	R15 W	0:55	0:55	0:55	0:55	0:55	R15 W	0:55	~~0:55~~ 1:10	0:55
R16 WNW	0:55	0:55	0:55	0:55	0:55	R16 WNW	0:55	0:55	0:55	0:55	0:55	R16 WNW	0:55	~~0:55~~ 1:10	0:55
R17 NW, NNW	0:55	0:55	0:55	0:55	0:55	R17 NW, NNW	0:55	0:55	0:55	0:55	0:55	R17 NW, NNW	0:55	~~0:55~~ 1:10	0:55
2-Mile Ring and Downwind to EPZ Boundary (3 sector groups)															
R18 N	1:10	1:15	1:05	1:10	1:05	R18 N	1:10	1:15	1:05	1:10	1:05	R18 N	1:05	~~1:05~~ 1:15	1:30
R19 NNE	1:10	1:10	1:05	1:05	1:05	R19 NNE	1:10	1:10	1:05	1:05	1:05	R19 NNE	1:05	~~1:05~~ 1:15	1:25
R20 NE	1:05	1:05	1:00	1:00	1:00	R20 NE	1:05	1:05	1:00	1:00	1:00	R20 NE	1:00	~~1:00~~ 1:10	1:05
R21 ENE	1:00	1:00	0:55	0:55	0:55	R21 ENE	1:00	1:00	0:55	0:55	0:55	R21 ENE	0:55	~~0:55~~ 1:05	0:55
R22 E	1:00	1:00	0:55	0:55	0:55	R22 E	1:00	1:00	0:55	0:55	0:55	R22 E	0:55	~~0:55~~ 1:05	0:55
R23 ESE	1:00	1:00	1:00	1:00	0:55	R23 ESE	1:00	1:00	0:55	1:00	0:55	R23 ESE	1:05	~~1:05~~ 1:10	1:00
R24 SE	1:00	1:00	1:00	1:00	0:55	R24 SE	1:00	1:00	0:55	1:00	0:55	R24 SE	1:05	~~1:05~~ 1:10	1:00
R25 SSE	1:05	1:05	1:00	1:05	1:00	R25 SSE	1:00	1:05	1:00	1:00	0:55	R25 SSE	1:05	~~1:05~~ 1:15	1:00
R26 S	1:00	1:05	1:00	1:05	0:55	R26 S	0:55	1:00	0:55	1:00	0:50	R26 S	1:05	~~1:05~~ 1:15	1:00
R27 SSW	1:00	1:00	1:00	1:00	0:55	R27 SSW	0:55	1:00	0:55	1:00	0:50	R27 SSW	1:05	~~1:05~~ 1:10	1:00
R28 SW	0:55	1:00	0:55	0:55	0:55	R28 SW	0:55	1:00	0:55	0:55	0:55	R28 SW	0:55	~~0:55~~ 1:15	0:55
R29 WSW	1:00	1:00	0:55	0:55	0:55	R29 WSW	1:00	1:00	0:55	0:55	0:55	R29 WSW	0:55	~~0:55~~ 1:15	0:55
R30 W	1:05	1:05	1:00	1:00	1:00	R30 W	1:05	1:05	1:00	1:00	1:00	R30 W	1:00	~~1:00~~ 1:15	1:05
R31 WNW	1:05	1:05	1:00	1:00	1:00	R31 WNW	1:05	1:05	1:00	1:00	1:00	R31 WNW	1:00	~~1:00~~ 1:15	1:05
R32 NW	1:05	1:05	1:00	1:00	1:00	R32 NW	1:05	1:05	1:00	1:00	1:00	R32 NW	1:00	~~1:00~~ 1:15	1:05
R33 NNW	1:10	1:15	1:05	1:10	1:05	R33 NNW	1:10	1:15	1:05	1:10	1:05	R33 NNW	1:05	~~1:05~~ 1:15	1:35

RCOL2_13.03-31

Table J-1A. Time to Clear the Indicated Area of 50 Percent of The Affected Population (page 2 of 2)

	Summer		Summer		Summer		Winter		Winter		Winter		Summer	Summer	Summer
	Midweek		Weekend		Midweek Weekend		Midweek		Weekend		Midweek Weekend		Weekend	Midweek	Weekend
Scenario:	(1)	(2)	(3)	(4)	(5)	Scenario:	(6)	(7)	(8)	(9)	(10)	Scenario:	(11)	(12)	(13)
Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday	Midday	Midday
	Good Weather	Rain	Good Weather	Rain	Good Weather		Good Weather	Rain	Good Weather	Rain	Good Weather		Event in Amphitheatre	New Plant Construction	Granbury 4th of July
2-Mile Ring and Downwind to 5 Miles (5 sector groups)															
R34 N	1:00	1:00	0:55	0:55	0:55	R34 N	1:00	1:00	0:55	0:55	0:55	R34 N	0:55	~~0:55~~ 1:10	0:55
R35 NNE	0:55	1:00	0:55	0:55	0:55	R35 NNE	0:55	1:00	0:55	0:55	0:55	R35 NNE	0:55	~~0:55~~ 1:10	0:55
R36 NE	0:55	0:55	0:50	0:55	0:50	R36 NE	0:55	0:55	0:50	0:55	0:55	R36 NE	0:55	~~0:55~~ 1:05	0:50
R37 ENE	0:55	0:55	0:55	0:55	0:50	R37 ENE	0:55	0:55	0:50	0:55	0:50	R37 ENE	0:55	~~0:55~~ 1:05	0:55
R38 E	0:55	1:00	0:55	1:00	0:55	R38 E	0:55	0:55	0:55	0:55	0:50	R38 E	1:05	~~1:05~~ 1:10	0:55
R39 ESE	0:55	0:55	0:55	1:00	0:55	R39 ESE	0:55	0:55	0:50	0:55	0:50	R39 ESE	1:05	~~1:05~~ 1:10	0:55
R40 SE	0:55	0:55	0:55	1:00	0:55	R40 SE	0:55	0:55	0:50	0:55	0:50	R40 SE	1:05	~~1:05~~ 1:10	0:55
R41 SSE, S	0:55	0:55	0:50	0:55	0:50	R41 SSE, S	0:50	0:55	0:50	0:50	0:50	R41 SSE, S	1:00	~~1:00~~ 1:05	0:50
R42 SSW	0:55	0:55	0:55	0:55	0:50	R42 SSW	0:55	0:55	0:50	0:50	0:50	R42 SSW	1:00	~~1:00~~ 1:05	0:55
R43 SW	0:55	0:55	0:55	0:55	0:50	R43 SW	0:55	0:55	0:50	0:55	0:50	R43 SW	1:00	~~1:00~~ 1:05	0:55
R44 WSW	0:55	0:55	0:50	0:55	0:50	R44 WSW	0:55	0:55	0:50	0:55	0:55	R44 WSW	0:50	~~0:50~~ 1:10	0:50
R45 W	1:00	1:00	0:55	0:55	0:55	R45 W	1:00	1:00	0:55	0:55	0:55	R45 W	0:55	~~0:55~~ 1:15	0:55
R46 WNW	1:00	1:00	0:55	0:55	0:55	R46 WNW	1:00	1:00	0:55	0:55	0:55	R46 WNW	0:55	~~0:55~~ 1:15	0:55
R47 NW, NNW	0:55	1:00	0:55	0:55	0:55	R47 NW, NNW	0:55	1:00	0:55	0:55	0:55	R47 NW, NNW	0:55	~~0:55~~ 1:10	0:55
2-Mile Ring and Downwind to EPZ Boundary (5 sector groups)															
R48 N	1:10	1:15	1:05	1:10	1:05	R48 N	1:10	1:15	1:05	1:10	1:05	R48 N	1:05	~~1:05~~ 1:15	1:30
R49 NNE	1:05	1:10	1:05	1:05	1:05	R49 NNE	1:10	1:10	1:05	1:05	1:05	R49 NNE	1:05	~~1:05~~ 1:15	1:25
R50 NE	1:05	1:10	1:00	1:05	1:00	R50 NE	1:05	1:10	1:00	1:05	1:00	R50 NE	1:05	~~1:05~~ 1:15	1:20
R51 ENE	1:05	1:05	1:00	1:00	1:00	R51 ENE	1:05	1:05	1:00	1:00	1:00	R51 ENE	1:00	~~1:00~~ 1:10	1:05
R52 E	1:00	1:05	1:00	1:00	0:55	R52 E	1:00	1:00	0:55	1:00	0:55	R52 E	1:00	~~1:00~~ 1:10	1:00
R53 ESE	1:00	1:05	1:00	1:00	0:55	R53 ESE	1:00	1:00	0:55	1:00	0:55	R53 ESE	1:00	~~1:00~~ 1:10	1:00
R54 SE	1:05	1:05	1:00	1:05	1:00	R54 SE	1:00	1:05	1:00	1:00	0:55	R54 SE	1:05	~~1:05~~ 1:15	1:00
R55 SSE	1:05	1:05	1:00	1:05	1:00	R55 SSE	1:00	1:05	1:00	1:00	0:55	R55 SSE	1:05	~~1:05~~ 1:15	1:00
R56 S	1:00	1:05	1:00	1:05	0:55	R56 S	1:00	1:00	0:55	1:00	0:55	R56 S	1:10	~~1:10~~ 1:15	1:00
R57 SSW	1:00	1:05	1:00	1:05	0:55	R57 SSW	1:00	1:00	0:55	1:00	0:55	R57 SSW	1:05	~~1:05~~ 1:15	1:00
R58 SW	1:00	1:05	1:00	1:00	0:55	R58 SW	1:00	1:00	0:55	1:00	0:55	R58 SW	1:05	~~1:05~~ 1:15	1:00
R59 WSW	1:00	1:05	1:00	1:00	0:55	R59 WSW	1:00	1:05	0:55	1:00	0:55	R59 WSW	1:00	~~1:00~~ 1:15	1:00
R60 W	1:05	1:05	1:00	1:00	1:00	R60 W	1:05	1:05	1:00	1:00	1:00	R60 W	1:00	~~1:00~~ 1:15	1:00
R61 WNW	1:05	1:05	1:00	1:00	1:00	R61 WNW	1:05	1:10	1:00	1:00	1:00	R61 WNW	1:00	~~1:00~~ 1:15	1:05
R62 NW	1:10	1:15	1:05	1:10	1:05	R62 NW	1:10	1:15	1:05	1:10	1:05	R62 NW	1:05	~~1:05~~ 1:20	1:35
R63 NNW	1:10	1:15	1:05	1:10	1:05	R63 NNW	1:10	1:15	1:05	1:10	1:05	R63 NNW	1:05	~~1:05~~ 1:15	1:30

RCOL2_13.03-31

Table J-1B. Time to Clear the Indicated Area of 90 Percent of The Affected Population (page 1 of 2)

	Summer		Summer		Summer		Winter		Winter		Winter		Summer	Summer	Summer
	Midweek		Weekend		Midweek Weekend		Midweek		Weekend		Midweek Weekend		Weekend	Midweek	Weekend
Scenario:	(1)	(2)	(3)	(4)	(5)	Scenario:	(6)	(7)	(8)	(9)	(10)	Scenario:	(11)	(12)	(13)
Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday	Midday	Midday
	Good Weather	Rain	Good Weather	Rain	Good Weather		Good Weather	Rain	Good Weather	Rain	Good Weather		Event in Amphitheatre	New Plant Construction	Granbury 4th of July
Entire 2-Mile Region, 5-Mile Region, and EPZ															
R01 2-mile ring	1:25	1:25	1:20	1:20	1:25	R01 2-mile ring	1:25	1:25	1:20	1:20	1:25	R01 2-mile ring	1:20	2:05	1:20
R02 5-mile ring	1:50	1:50	1:40	1:50	1:35	R02 5-mile ring	1:50	1:50	1:35	1:40	1:30	R02 5-mile ring	2:20	~~2:15~~ 2:10	1:40
R03 Entire EPZ	2:10	2:15	2:00	2:05	1:55	R03 Entire EPZ	2:10	2:20	1:55	2:00	1:55	R03 Entire EPZ	2:10	~~2:30~~ 2:25	2:50
2-Mile Ring and Downwind to 5 Miles (3 sector groups)															
R04 N	1:50	1:50	1:30	1:35	1:35	R04 N	1:50	1:50	1:30	1:35	1:35	R04 N	1:30	2:05	1:30
R05 NNE	1:50	1:50	1:30	1:30	1:30	R05 NNE	1:50	1:50	1:30	1:30	1:30	R05 NNE	1:30	2:05	1:30
R06 NE	1:50	1:50	1:30	1:30	1:30	R06 NE	1:50	1:50	1:30	1:30	1:30	R06 NE	1:35	2:05	1:30
R07 ENE	1:40	1:40	1:30	1:30	1:30	R07 ENE	1:40	1:40	1:30	1:30	1:30	R07 ENE	1:35	2:05	1:30
R08 E	1:40	1:40	1:30	1:30	1:30	R08 E	1:40	1:40	1:30	1:30	1:30	R08 E	1:35	2:05	1:30
R09 ESE	1:45	1:50	1:45	1:50	1:35	R09 ESE	1:40	1:40	1:35	1:40	1:30	R09 ESE	2:20	~~2:10~~ 2:05	1:45
R10 SE	1:45	1:50	1:40	1:50	1:35	R10 SE	1:40	1:40	1:35	1:40	1:30	R10 SE	2:20	~~2:10~~ 2:05	1:40
R11 SSE, S	1:40	1:40	1:35	1:40	1:30	R11 SSE, S	1:40	1:40	1:25	1:30	1:25	R11 SSE, S	2:20	2:05	1:35
R12 SSW	1:40	1:40	1:35	1:40	1:30	R12 SSW	1:40	1:40	1:25	1:30	1:25	R12 SSW	2:20	2:05	1:35
R13 SW	1:30	1:30	1:25	1:25	1:25	R13 SW	1:30	1:30	1:25	1:25	1:25	R13 SW	1:25	2:10	1:25
R14 WSW	1:40	1:40	1:30	1:30	1:30	R14 WSW	1:40	1:40	1:30	1:30	1:30	R14 WSW	1:30	2:10	1:30
R15 W	1:40	1:40	1:30	1:30	1:30	R15 W	1:40	1:40	1:30	1:30	1:30	R15 W	1:30	2:10	1:30
R16 WNW	1:40	1:40	1:30	1:30	1:30	R16 WNW	1:40	1:40	1:30	1:30	1:30	R16 WNW	1:30	2:10	1:30
R17 NW, NNW	1:40	1:40	1:30	1:30	1:30	R17 NW, NNW	1:40	1:40	1:30	1:30	1:30	R17 NW, NNW	1:30	2:05	1:30
2-Mile Ring and Downwind to EPZ Boundary (3 sector groups)															
R18 N	2:10	2:20	1:55	2:00	1:55	R18 N	2:20	2:20	1:55	2:00	1:55	R18 N	1:55	~~2:25~~ 2:15	3:00
R19 NNE	2:10	2:20	1:55	2:00	1:55	R19 NNE	2:10	2:20	1:55	2:00	1:55	R19 NNE	1:55	~~2:20~~ 2:15	2:50
R20 NE	2:10	2:10	1:50	1:55	1:50	R20 NE	2:10	2:10	1:50	1:55	1:50	R20 NE	1:50	~~2:15~~ 2:10	2:10
R21 ENE	2:00	2:00	1:35	1:35	1:35	R21 ENE	2:00	2:00	1:35	1:40	1:35	R21 ENE	1:40	2:05	1:35
R22 E	2:00	2:00	1:35	1:35	1:35	R22 E	2:00	2:00	1:35	1:35	1:35	R22 E	1:40	2:05	1:35
R23 ESE	1:50	1:55	1:45	1:50	1:40	R23 ESE	1:50	1:50	1:35	1:40	1:35	R23 ESE	2:20	2:10	1:45
R24 SE	1:50	1:55	1:45	1:50	1:40	R24 SE	1:50	1:50	1:35	1:40	1:35	R24 SE	2:20	2:10	1:45
R25 SSE	1:50	1:55	1:45	1:55	1:35	R25 SSE	1:50	1:50	1:35	1:45	1:35	R25 SSE	2:20	~~2:20~~ 2:15	1:45
R26 S	1:45	1:55	1:45	1:55	1:35	R26 S	1:50	1:50	1:35	1:40	1:30	R26 S	2:10	2:15	1:45
R27 SSW	1:45	1:50	1:45	1:50	1:35	R27 SSW	1:45	1:50	1:35	1:40	1:30	R27 SSW	2:20	2:20	1:45
R28 SW	1:40	1:40	1:35	1:35	1:30	R28 SW	1:40	1:45	1:30	1:35	1:30	R28 SW	1:35	~~2:20~~ 2:15	1:35
R29 WSW	1:50	1:50	1:35	1:35	1:35	R29 WSW	1:50	1:50	1:35	1:35	1:35	R29 WSW	1:35	2:15	1:35
R30 W	2:00	2:10	1:40	1:40	1:40	R30 W	2:10	2:10	1:40	1:40	1:40	R30 W	1:40	2:10	1:55
R31 WNW	2:10	2:10	1:40	1:40	1:40	R31 WNW	2:10	2:10	1:40	1:40	1:40	R31 WNW	1:40	2:15	2:00
R32 NW	2:10	2:10	1:40	1:40	1:40	R32 NW	2:10	2:10	1:40	1:40	1:40	R32 NW	1:40	2:15	2:00
R33 NNW	2:10	2:20	1:55	2:05	2:00	R33 NNW	2:10	2:20	1:55	2:05	2:00	R33 NNW	1:55	~~2:25~~ 2:15	3:00

RCOL2_13.03-31

Table J-1B. Time to Clear the Indicated Area of 90 Percent of The Affected Population (page 2 of 2)

	Summer		Summer		Summer		Winter		Winter		Winter		Summer	Summer	Summer
	Midweek		Weekend		Midweek Weekend		Midweek		Weekend		Midweek Weekend		Weekend	Midweek	Weekend
Scenario:	(1)	(2)	(3)	(4)	(5)	Scenario:	(6)	(7)	(8)	(9)	(10)	Scenario:	(11)	(12)	(13)
Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday	Midday	Midday
	Good Weather	Rain	Good Weather	Rain	Good Weather		Good Weather	Rain	Good Weather	Rain	Good Weather		Event In Amphitheatre	New Plant Construction	Granbury 4th of July
2-Mile Ring and Downwind to 5 Miles (5 sector groups)															
R34 N	1:50	1:50	1:35	1:35	1:35	R34 N	1:50	1:50	1:35	1:35	1:35	R34 N	1:35	2:05	1:35
R35 NNE	1:50	1:50	1:30	1:35	1:35	R35 NNE	1:50	1:50	1:30	1:35	1:35	R35 NNE	1:35	2:05	1:30
R36 NE	1:50	1:50	1:30	1:30	1:30	R36 NE	1:50	1:50	1:30	1:30	1:30	R36 NE	1:35	2:05	1:30
R37 ENE	1:40	1:50	1:35	1:35	1:30	R37 ENE	1:50	1:50	1:30	1:30	1:30	R37 ENE	1:40	~~2:10~~ 2:05	1:35
R38 E	1:45	1:50	1:45	1:50	1:35	R38 E	1:40	1:40	1:35	1:40	1:30	R38 E	2:20	~~2:10~~ 2:05	1:45
R39 ESE	1:45	1:50	1:40	1:50	1:35	R39 ESE	1:40	1:40	1:35	1:40	1:30	R39 ESE	2:20	~~2:10~~ 2:05	1:40
R40 SE	1:40	1:50	1:40	1:45	1:35	R40 SE	1:40	1:40	1:30	1:40	1:30	R40 SE	2:20	~~2:10~~ 2:05	1:40
R41 SSE, S	1:40	1:40	1:35	1:40	1:30	R41 SSE, S	1:40	1:40	1:25	1:30	1:25	R41 SSE, S	2:20	2:05	1:35
R42 SSW	1:40	1:40	1:35	1:40	1:30	R42 SSW	1:40	1:40	1:30	1:30	1:30	R42 SSW	2:20	~~2:10~~ 2:05	1:35
R43 SW	1:40	1:45	1:35	1:40	1:30	R43 SW	1:40	1:40	1:30	1:30	1:30	R43 SW	2:10	~~2:10~~ 2:05	1:35
R44 WSW	1:40	1:40	1:30	1:30	1:30	R44 WSW	1:40	1:40	1:30	1:30	1:30	R44 WSW	1:30	2:10	1:30
R45 W	1:50	1:50	1:35	1:35	1:35	R45 W	1:50	1:50	1:35	1:35	1:35	R45 W	1:35	2:10	1:35
R46 WNW	1:50	1:50	1:35	1:35	1:35	R46 WNW	1:50	1:50	1:35	1:35	1:35	R46 WNW	1:35	2:10	1:35
R47 NW, NNW	1:50	1:50	1:30	1:35	1:35	R47 NW, NNW	1:50	1:50	1:30	1:35	1:35	R47 NW, NNW	1:30	2:05	1:30
2-Mile Ring and Downwind to EPZ Boundary (5 sector groups)															
R48 N	2:20	2:20	2:00	2:05	1:55	R48 N	2:20	2:20	2:00	2:05	1:55	R48 N	2:00	2:20	3:00
R49 NNE	2:10	2:20	1:55	2:00	1:55	R49 NNE	2:10	2:20	1:55	2:00	1:55	R49 NNE	1:55	~~2:20~~ 2:15	3:00
R50 NE	2:10	2:10	1:50	2:00	1:50	R50 NE	2:10	2:15	1:50	2:00	1:50	R50 NE	1:50	~~2:20~~ 2:15	2:50
R51 ENE	2:10	2:10	1:50	2:00	1:50	R51 ENE	2:10	2:10	1:50	2:00	1:50	R51 ENE	1:50	~~2:15~~ 2:10	2:10
R52 E	2:00	2:00	1:45	1:50	1:40	R52 E	2:00	2:00	1:40	1:40	1:35	R52 E	2:10	2:10	1:45
R53 ESE	2:00	2:00	1:45	1:50	1:40	R53 ESE	2:00	2:00	1:40	1:40	1:35	R53 ESE	2:10	2:10	1:45
R54 SE	1:55	2:00	1:50	2:00	1:40	R54 SE	1:50	1:55	1:40	1:45	1:35	R54 SE	2:20	~~2:20~~ 2:15	1:50
R55 SSE	1:55	2:00	1:50	2:00	1:40	R55 SSE	1:50	1:50	1:40	1:45	1:35	R55 SSE	2:20	~~2:20~~ 2:15	1:50
R56 S	1:50	1:55	1:45	1:55	1:35	R56 S	1:50	1:50	1:35	1:45	1:30	R56 S	2:25	2:15	1:45
R57 SSW	1:50	1:55	1:45	1:55	1:35	R57 SSW	1:50	1:50	1:35	1:40	1:30	R57 SSW	2:10	2:20	1:45
R58 SW	1:50	1:55	1:45	1:50	1:35	R58 SW	1:50	1:50	1:35	1:40	1:30	R58 SW	2:10	2:20	1:45
R59 WSW	2:00	2:00	1:40	1:40	1:40	R59 WSW	2:00	2:00	1:40	1:40	1:40	R59 WSW	1:40	~~2:20~~ 2:15	1:50
R60 W	2:00	2:00	1:40	1:40	1:40	R60 W	2:00	2:00	1:40	1:40	1:40	R60 W	1:40	2:15	1:55
R61 WNW	2:10	2:10	1:40	1:40	1:40	R61 WNW	2:10	2:10	1:40	1:40	1:40	R61 WNW	1:40	2:15	2:00
R62 NW	2:10	2:20	2:00	2:05	2:00	R62 NW	2:20	2:20	2:00	2:05	2:00	R62 NW	2:00	~~2:25~~ 2:20	3:00
R63 NNW	2:20	2:20	2:00	2:05	1:55	R63 NNW	2:20	2:20	2:00	2:05	1:55	R63 NNW	2:00	~~2:25~~ 2:20	3:00

RCOL2_13.03-31

Table J-1C. Time to Clear the Indicated Area of 95 Percent of The Affected Population (page 1 of 2)

	Summer		Summer		Summer		Winter		Winter		Winter		Summer	Summer	Summer
	Midweek		Weekend		Midweek Weekend		Midweek		Weekend		Midweek Weekend		Weekend	Midweek	Weekend
Scenario:	(1)	(2)	(3)	(4)	(5)	Scenario:	(6)	(7)	(8)	(9)	(10)	Scenario:	(11)	(12)	(13)
Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday	Midday	Midday
	Good Weather	Rain	Good Weather	Rain	Good Weather		Good Weather	Rain	Good Weather	Rain	Good Weather		Event in Amphitheatre	New Plant Construction	Granbury 4th of July
Entire 2-Mile Region, 5-Mile Region, and EPZ															
R01 2-mile ring	1:40	1:40	1:30	1:30	1:30	R01 2-mile ring	1:40	1:40	1:30	1:30	1:30	R01 2-mile ring	1:30	2:15	1:30
R02 5-mile ring	2:20	2:20	2:10	2:10	2:00	R02 5-mile ring	2:20	2:20	1:50	1:50	1:50	R02 5-mile ring	2:40	~~2:25~~ 2:20	1:50
R03 Entire EPZ	2:50	2:50	2:10	2:20	2:10	R03 Entire EPZ	2:40	2:40	2:10	2:20	2:10	R03 Entire EPZ	2:30	~~2:45~~ 2:40	3:10
2-Mile Ring and Downwind to 5 Miles (3 sector groups)															
R04 N	2:20	2:20	1:50	1:50	2:00	R04 N	2:20	2:20	1:50	1:50	2:00	R04 N	1:50	2:15	1:50
R05 NNE	2:20	2:20	1:50	1:50	1:50	R05 NNE	2:20	2:20	1:50	1:50	1:50	R05 NNE	1:50	2:15	1:50
R06 NE	2:10	2:10	1:50	1:50	1:50	R06 NE	2:10	2:10	1:50	1:50	1:50	R06 NE	1:45	2:15	1:50
R07 ENE	2:10	2:10	1:40	1:50	1:50	R07 ENE	2:10	2:10	1:50	1:50	1:50	R07 ENE	1:45	2:15	1:40
R08 E	2:00	2:00	1:40	1:40	1:50	R08 E	2:00	2:00	1:40	1:40	1:50	R08 E	1:45	2:15	1:40
R09 ESE	2:00	2:00	1:55	2:00	1:45	R09 ESE	2:10	2:10	1:40	1:50	1:50	R09 ESE	2:50	~~2:30~~ 2:15	1:55
R10 SE	2:00	2:00	1:50	2:00	1:40	R10 SE	2:10	2:10	1:40	1:50	1:50	R10 SE	2:50	2:15	1:50
R11 SSE, S	1:50	2:00	1:45	1:50	1:40	R11 SSE, S	2:00	2:00	1:40	1:40	1:40	R11 SSE, S	2:40	2:15	1:45
R12 SSW	2:00	2:00	1:45	1:50	1:40	R12 SSW	2:00	2:00	1:40	1:40	1:40	R12 SSW	2:40	2:15	1:45
R13 SW	1:50	2:00	1:40	1:40	1:40	R13 SW	1:50	2:00	1:40	1:40	1:40	R13 SW	1:40	2:15	1:40
R14 WSW	2:10	2:10	1:40	1:40	1:50	R14 WSW	2:10	2:10	1:40	1:40	1:50	R14 WSW	1:40	2:20	1:40
R15 W	2:10	2:10	1:40	1:40	1:50	R15 W	2:10	2:10	1:40	1:40	1:50	R15 W	1:40	2:15	1:40
R16 WNW	2:10	2:10	1:40	1:40	1:50	R16 WNW	2:10	2:10	1:40	1:40	1:50	R16 WNW	1:40	2:15	1:40
R17 NW, NNW	2:10	2:10	1:40	1:40	1:50	R17 NW, NNW	2:10	2:10	1:40	1:40	1:50	R17 NW, NNW	1:40	2:15	1:40
2-Mile Ring and Downwind to EPZ Boundary (3 sector groups)															
R18 N	2:50	2:50	2:10	2:20	2:10	R18 N	2:50	2:50	2:10	2:20	2:10	R18 N	2:10	2:40	3:15
R19 NNE	2:50	2:50	2:10	2:20	2:10	R19 NNE	2:50	2:50	2:10	2:20	2:10	R19 NNE	2:10	2:40	3:10
R20 NE	2:40	2:40	2:10	2:10	2:10	R20 NE	2:40	2:40	2:10	2:10	2:10	R20 NE	2:10	~~2:40~~ 2:30	2:20
R21 ENE	2:30	2:30	1:50	1:50	2:00	R21 ENE	2:30	2:30	1:50	2:00	2:00	R21 ENE	1:50	2:20	1:50
R22 E	2:30	2:30	1:50	1:50	2:00	R22 E	2:30	2:30	1:50	1:50	2:00	R22 E	1:50	2:20	1:50
R23 ESE	2:10	2:10	2:00	2:10	1:50	R23 ESE	2:10	2:10	1:50	1:55	1:50	R23 ESE	2:40	2:20	2:00
R24 SE	2:10	2:10	2:00	2:10	1:50	R24 SE	2:10	2:20	1:50	1:55	1:50	R24 SE	2:40	2:20	2:00
R25 SSE	2:10	2:10	1:55	2:05	1:50	R25 SSE	2:10	2:10	1:50	1:55	1:50	R25 SSE	2:40	~~2:35~~ 2:30	1:55
R26 S	2:10	2:10	1:55	2:00	1:50	R26 S	2:10	2:10	1:50	1:50	1:50	R26 S	2:40	~~2:35~~ 2:30	1:55
R27 SSW	2:00	2:05	1:50	2:00	1:50	R27 SSW	2:10	2:10	1:50	1:50	1:50	R27 SSW	2:40	2:40	1:50
R28 SW	2:00	2:00	1:40	1:45	1:40	R28 SW	2:00	2:00	1:40	1:40	1:40	R28 SW	1:40	~~2:30~~ 2:25	1:40
R29 WSW	2:10	2:10	1:50	1:50	1:50	R29 WSW	2:20	2:20	1:50	1:50	1:50	R29 WSW	1:50	2:25	1:50
R30 W	2:40	2:40	2:00	2:00	2:10	R30 W	2:40	2:40	2:00	2:00	2:10	R30 W	2:00	2:25	2:10
R31 WNW	2:40	2:40	2:00	2:00	2:10	R31 WNW	2:40	2:40	2:00	2:00	2:10	R31 WNW	2:00	~~2:30~~ 2:25	2:10
R32 NW	2:40	2:40	2:10	2:10	2:10	R32 NW	2:40	2:50	2:10	2:10	2:10	R32 NW	2:10	2:30	2:15
R33 NNW	2:40	2:50	2:10	2:20	2:10	R33 NNW	2:50	2:50	2:10	2:20	2:10	R33 NNW	2:10	2:40	3:20

RCOL2_13.03-31

Table J-1C. Time to Clear the Indicated Area of 95 Percent of The Affected Population (page 2 of 2)

	Summer		Summer		Summer		Winter		Winter		Winter		Summer	Summer	Summer
	Midweek		Weekend		Midweek Weekend		Midweek		Weekend		Midweek Weekend		Weekend	Midweek	Weekend
Scenario:	(1)	(2)	(3)	(4)	(5)	Scenario:	(6)	(7)	(8)	(9)	(10)	Scenario:	(11)	(12)	(13)
Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday	Midday	Midday
	Good Weather	Rain	Good Weather	Rain	Good Weather		Good Weather	Rain	Good Weather	Rain	Good Weather		Event in Amphitheatre	New Plant Construction	Granbury 4th of July
2-Mile Ring and Downwind to 5 Miles (5 sector groups)															
R34 N	2:20	2:20	1:50	1:50	2:00	R34 N	2:20	2:20	1:50	1:50	2:00	R34 N	1:50	2:15	1:50
R35 NNE	2:20	2:20	1:50	1:50	1:50	R35 NNE	2:20	2:20	1:50	1:50	1:50	R35 NNE	1:50	2:15	1:50
R36 NE	2:10	2:10	1:50	1:50	1:50	R36 NE	2:10	2:20	1:50	1:50	1:50	R36 NE	1:45	2:15	1:50
R37 ENE	2:10	2:10	1:40	1:50	1:50	R37 ENE	2:20	2:20	1:40	1:50	1:50	R37 ENE	2:10	2:20	1:40
R38 E	2:00	2:00	1:55	2:00	1:50	R38 E	2:10	2:10	1:40	1:50	1:50	R38 E	2:50	~~2:20~~ 2:15	1:55
R39 ESE	2:00	2:00	1:50	2:00	1:45	R39 ESE	2:10	2:10	1:40	1:50	1:40	R39 ESE	2:40	~~2:20~~ 2:15	1:50
R40 SE	2:00	2:00	1:50	1:55	1:40	R40 SE	2:00	2:00	1:40	1:50	1:40	R40 SE	2:50	2:15	1:50
R41 SSE, S	2:00	2:00	1:45	1:50	1:40	R41 SSE, S	2:00	2:00	1:40	1:40	1:40	R41 SSE, S	2:40	2:15	1:45
R42 SSW	2:00	2:00	1:50	1:50	1:40	R42 SSW	2:00	2:10	1:40	1:40	1:40	R42 SSW	2:40	2:20	1:50
R43 SW	2:10	2:10	1:50	1:50	1:40	R43 SW	2:10	2:10	1:40	1:40	1:50	R43 SW	2:40	2:20	1:50
R44 WSW	2:10	2:10	1:40	1:40	1:50	R44 WSW	2:10	2:10	1:40	1:40	1:50	R44 WSW	1:40	2:20	1:40
R45 W	2:20	2:20	1:50	1:50	2:00	R45 W	2:20	2:20	1:50	1:50	2:00	R45 W	1:50	2:20	1:50
R46 WNW	2:20	2:20	1:50	1:50	2:00	R46 WNW	2:20	2:20	1:50	1:50	2:00	R46 WNW	1:50	2:20	1:50
R47 NW, NNW	2:20	2:20	1:50	1:50	2:00	R47 NW, NNW	2:20	2:20	1:50	1:50	2:00	R47 NW, NNW	1:50	2:15	1:50
2-Mile Ring and Downwind to EPZ Boundary (5 sector groups)															
R48 N	2:50	2:50	2:10	2:20	2:10	R48 N	2:50	2:50	2:10	2:20	2:10	R48 N	2:10	2:40	3:20
R49 NNE	2:40	2:40	2:10	2:20	2:10	R49 NNE	2:40	2:50	2:10	2:20	2:10	R49 NNE	2:10	2:40	3:20
R50 NE	2:40	2:40	2:10	2:20	2:10	R50 NE	2:40	2:40	2:10	2:20	2:10	R50 NE	2:10	~~2:40~~ 2:30	3:10
R51 ENE	2:40	2:40	2:10	2:20	2:10	R51 ENE	2:40	2:40	2:10	2:20	2:10	R51 ENE	2:10	~~2:40~~ 2:30	2:30
R52 E	2:30	2:30	2:00	2:10	1:50	R52 E	2:30	2:30	1:50	1:55	1:50	R52 E	2:40	~~2:25~~ 2:20	2:00
R53 ESE	2:20	2:20	2:00	2:00	1:50	R53 ESE	2:30	2:30	1:50	1:55	1:50	R53 ESE	2:40	~~2:25~~ 2:20	2:00
R54 SE	2:10	2:10	2:00	2:10	1:50	R54 SE	2:20	2:20	1:50	1:55	1:50	R54 SE	2:40	~~2:35~~ 2:30	2:00
R55 SSE	2:10	2:10	2:00	2:10	1:50	R55 SSE	2:20	2:20	1:50	1:55	1:50	R55 SSE	2:40	~~2:35~~ 2:30	2:00
R56 S	2:00	2:10	1:55	2:05	1:50	R56 S	2:10	2:10	1:50	1:50	1:50	R56 S	2:50	2:30	1:55
R57 SSW	2:10	2:10	1:55	2:00	1:50	R57 SSW	2:20	2:20	1:50	1:50	1:50	R57 SSW	2:40	~~2:40~~ 2:35	1:55
R58 SW	2:10	2:20	1:50	2:00	1:50	R58 SW	2:20	2:20	1:50	1:50	1:50	R58 SW	2:40	2:40	1:50
R59 WSW	2:30	2:30	1:50	2:00	2:00	R59 WSW	2:30	2:30	2:00	2:00	2:00	R59 WSW	1:50	2:30	2:05
R60 W	2:30	2:30	2:00	2:00	2:00	R60 W	2:30	2:30	2:00	2:00	2:00	R60 W	2:00	~~2:30~~ 2:25	2:10
R61 WNW	2:40	2:40	2:00	2:10	2:10	R61 WNW	2:40	2:40	2:00	2:10	2:10	R61 WNW	2:00	2:30	2:10
R62 NW	2:50	2:50	2:10	2:20	2:10	R62 NW	2:50	2:50	2:10	2:20	2:10	R62 NW	2:10	2:40	3:20
R63 NNW	2:50	2:50	2:10	2:20	2:10	R63 NNW	2:50	2:50	2:10	2:20	2:10	R63 NNW	2:10	2:40	3:20

RCOL2_13.03-31

Table J-1D. Time to Clear the Indicated Area of 100 Percent of The Affected Population (page 1 of 2)

	Summer		Summer		Summer		Winter		Winter		Winter		Summer	Summer	Summer
	Midweek		Weekend		Midweek Weekend		Midweek		Weekend		Midweek Weekend		Weekend	Midweek	Weekend
Scenario:	(1)	(2)	(3)	(4)	(5)	Scenario:	(6)	(7)	(8)	(9)	(10)	Scenario:	(11)	(12)	(13)
Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday	Midday	Midday
	Good Weather	Rain	Good Weather	Rain	Good Weather		Good Weather	Rain	Good Weather	Rain	Good Weather		Event in Amphitheatre	New Plant Construction	Granbury 4th of July
Entire 2-Mile Region, 5-Mile Region, and EPZ															
R01 2-mile ring	3:50	3:50	2:50	3:00	3:00	R01 2-mile ring	3:50	3:50	2:50	2:50	3:00	R01 2-mile ring	2:50	~~3:40~~ 3:50	2:50
R02 5-mile ring	4:10	4:10	3:10	3:10	3:10	R02 5-mile ring	4:10	4:10	3:10	3:10	3:10	R02 5-mile ring	3:10	4:10	3:10
R03 Entire EPZ	4:20	4:20	4:00	4:00	4:00	R03 Entire EPZ	4:20	4:20	4:00	4:00	4:00	R03 Entire EPZ	4:00	4:20	4:00
2-Mile Ring and Downwind to 5 Miles (3 sector groups)															
R04 N	4:10	4:10	3:10	3:10	3:00	R04 N	4:00	4:10	3:10	3:10	3:10	R04 N	3:10	4:10	3:10
R05 NNE	4:00	4:10	3:00	3:00	3:10	R05 NNE	4:00	4:10	3:00	3:10	3:00	R05 NNE	3:00	4:00	3:00
R06 NE	4:00	4:00	3:00	3:00	3:10	R06 NE	4:00	4:10	3:10	3:10	3:10	R06 NE	3:00	4:00	3:00
R07 ENE	4:00	4:00	3:00	3:00	3:00	R07 ENE	4:00	4:00	3:00	3:00	3:00	R07 ENE	3:00	4:00	3:00
R08 E	4:00	4:00	3:00	3:00	3:00	R08 E	4:00	4:00	3:00	3:00	3:00	R08 E	3:00	4:00	3:00
R09 ESE	4:00	4:00	3:00	3:00	3:00	R09 ESE	4:00	4:00	3:00	3:00	3:00	R09 ESE	3:00	4:00	3:00
R10 SE	4:00	4:00	3:00	3:00	3:00	R10 SE	4:00	4:00	3:00	3:00	3:00	R10 SE	3:00	4:00	3:00
R11 SSE, S	4:00	4:00	3:00	3:00	3:00	R11 SSE, S	4:00	4:00	2:50	3:00	3:00	R11 SSE, S	3:00	4:00	3:00
R12 SSW	4:00	4:00	3:00	3:00	3:00	R12 SSW	4:00	4:00	2:50	3:00	3:00	R12 SSW	3:00	4:00	3:00
R13 SW	4:00	4:00	3:00	3:10	3:00	R13 SW	4:00	4:00	3:10	3:10	3:00	R13 SW	3:00	4:00	3:00
R14 WSW	4:10	4:10	3:10	3:10	3:10	R14 WSW	4:00	4:10	3:10	3:10	3:10	R14 WSW	3:10	~~4:00~~ 4:10	3:10
R15 W	4:10	4:10	3:10	3:10	3:10	R15 W	4:00	4:10	3:10	3:10	3:10	R15 W	3:10	~~4:00~~ 4:10	3:10
R16 WNW	4:10	4:10	3:10	3:10	3:10	R16 WNW	4:00	4:10	3:10	3:10	3:10	R16 WNW	3:10	~~4:00~~ 4:10	3:10
R17 NW, NNW	4:10	4:10	3:10	3:10	3:10	R17 NW, NNW	4:00	4:10	3:10	3:10	3:10	R17 NW, NNW	3:10	4:10	3:10
2-Mile Ring and Downwind to EPZ Boundary (3 sector groups)															
R18 N	4:10	4:20	4:00	4:00	4:00	R18 N	4:10	4:10	4:00	4:00	4:00	R18 N	4:00	4:10	4:00
R19 NNE	4:10	4:10	4:00	4:00	3:50	R19 NNE	4:10	4:10	4:00	4:00	4:00	R19 NNE	4:00	4:10	4:00
R20 NE	4:10	4:10	3:50	4:00	3:50	R20 NE	4:10	4:10	3:50	4:00	4:00	R20 NE	3:50	4:10	3:50
R21 ENE	4:00	4:00	3:40	3:40	3:40	R21 ENE	4:00	4:00	3:40	3:40	3:40	R21 ENE	3:40	4:00	3:40
R22 E	4:00	4:00	3:40	3:40	3:40	R22 E	4:00	4:00	3:40	3:40	3:40	R22 E	3:40	4:00	3:40
R23 ESE	4:00	4:00	3:00	3:00	3:00	R23 ESE	4:00	4:00	3:00	3:10	3:00	R23 ESE	3:00	4:00	3:00
R24 SE	4:00	4:00	3:00	3:00	3:00	R24 SE	4:00	4:00	3:00	3:10	3:00	R24 SE	3:00	4:00	3:00
R25 SSE	4:00	4:00	3:00	3:10	3:00	R25 SSE	4:10	4:10	3:10	3:10	3:10	R25 SSE	3:10	~~4:10~~ 4:00	3:00
R26 S	4:00	4:00	3:00	3:10	3:00	R26 S	4:00	4:00	3:00	3:00	3:10	R26 S	3:00	~~4:10~~ 4:00	3:00
R27 SSW	4:00	4:00	3:10	3:10	3:00	R27 SSW	4:00	4:10	3:00	3:00	3:00	R27 SSW	3:00	4:00	3:10
R28 SW	4:00	4:10	3:10	3:10	3:10	R28 SW	4:10	4:10	3:10	3:10	3:10	R28 SW	3:10	~~4:10~~ 4:00	3:10
R29 WSW	4:10	4:10	3:10	3:10	3:10	R29 WSW	4:10	4:10	3:10	3:10	3:10	R29 WSW	3:10	~~4:00~~ 4:10	3:10
R30 W	4:10	4:10	3:50	3:50	4:00	R30 W	4:10	4:10	3:50	3:50	3:50	R30 W	3:50	4:10	3:50
R31 WNW	4:20	4:20	3:50	3:50	4:00	R31 WNW	4:10	4:20	3:50	4:00	4:00	R31 WNW	3:50	4:20	3:50
R32 NW	4:20	4:20	3:50	3:50	3:50	R32 NW	4:20	4:20	3:50	4:00	3:50	R32 NW	3:50	4:20	3:50
R33 NNW	4:10	4:20	4:00	4:00	4:00	R33 NNW	4:10	4:20	4:00	4:00	4:00	R33 NNW	4:00	4:20	4:00

RCOL2_13.03-31

Table J-1D. Time to Clear the Indicated Area of 100 Percent of The Affected Population (page 2 of 2)

	Summer		Summer		Summer		Winter		Winter		Winter		Summer	Summer	Summer
	Midweek		Weekend		Midweek Weekend		Midweek		Weekend		Midweek Weekend		Weekend	Midweek	Weekend
Scenario:	(1)	(2)	(3)	(4)	(5)	Scenario:	(6)	(7)	(8)	(9)	(10)	Scenario:	(11)	(12)	(13)
Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday		Midday		Evening	Region Wind Toward:	Midday	Midday	Midday
	Good Weather	Rain	Good Weather	Rain	Good Weather		Good Weather	Rain	Good Weather	Rain	Good Weather		Event in Amphitheatre	New Plant Construction	Granbury 4th of July
2-Mile Ring and Downwind to 5 Miles (5 sector groups)															
R34 N	4:10	4:10	3:10	3:10	3:10	R34 N	4:00	4:10	3:10	3:10	3:10	R34 N	3:10	~~4:00~~ 4:10	3:10
R35 NNE	4:10	4:10	3:10	3:10	3:10	R35 NNE	4:10	4:10	3:10	3:10	3:10	R35 NNE	3:10	4:10	3:10
R36 NE	4:00	4:00	3:00	3:00	3:10	R36 NE	4:00	4:10	3:10	3:00	3:10	R36 NE	3:00	4:00	3:00
R37 ENE	4:00	4:00	3:00	3:00	3:00	R37 ENE	4:00	4:00	3:00	3:00	3:00	R37 ENE	3:10	4:00	3:00
R38 E	4:00	4:00	3:00	3:00	3:00	R38 E	4:00	4:00	3:00	3:00	3:00	R38 E	3:10	4:00	3:00
R39 ESE	4:00	4:00	3:00	3:00	3:00	R39 ESE	4:00	4:00	3:00	3:00	3:00	R39 ESE	3:10	4:00	3:00
R40 SE	4:00	4:00	3:00	3:00	3:00	R40 SE	4:00	4:00	3:00	3:00	3:00	R40 SE	3:10	4:00	3:00
R41 SSE, S	4:00	4:00	3:00	3:00	3:00	R41 SSE, S	4:00	4:00	3:00	3:00	3:00	R41 SSE, S	3:10	4:00	3:00
R42 SSW	4:00	4:00	3:00	3:00	3:00	R42 SSW	4:00	4:00	3:00	3:00	3:00	R42 SSW	3:10	4:00	3:00
R43 SW	4:00	4:00	3:10	3:00	3:10	R43 SW	4:00	4:00	3:10	3:10	3:10	R43 SW	3:10	4:00	3:10
R44 WSW	4:10	4:10	3:10	3:10	3:10	R44 WSW	4:00	4:10	3:10	3:10	3:10	R44 WSW	3:10	~~4:00~~ 4:10	3:10
R45 W	4:10	4:10	3:10	3:10	3:10	R45 W	4:10	4:10	3:10	3:10	3:10	R45 W	3:10	4:10	3:10
R46 WNW	4:10	4:10	3:10	3:10	3:10	R46 WNW	4:10	4:10	3:10	3:10	3:10	R46 WNW	3:10	4:10	3:10
R47 NW, NNW	4:10	4:10	3:10	3:10	3:10	R47 NW, NNW	4:10	4:10	3:10	3:10	3:10	R47 NW, NNW	3:10	4:10	3:10
2-Mile Ring and Downwind to EPZ Boundary (5 sector groups)															
R48 N	4:10	4:20	4:00	4:00	4:00	R48 N	4:20	4:20	4:00	4:00	4:00	R48 N	4:00	4:10	4:00
R49 NNE	4:10	4:20	4:00	4:00	4:00	R49 NNE	4:10	4:20	4:00	4:00	4:00	R49 NNE	4:00	4:10	4:00
R50 NE	4:10	4:10	4:00	4:00	4:00	R50 NE	4:10	4:10	3:50	4:00	4:00	R50 NE	4:00	4:10	4:00
R51 ENE	4:10	4:10	3:50	4:00	3:50	R51 ENE	4:10	4:10	3:50	4:00	4:00	R51 ENE	3:50	4:10	3:50
R52 E	4:10	4:10	3:40	3:40	3:40	R52 E	4:00	4:10	3:40	3:40	3:40	R52 E	3:40	~~4:00~~ 4:10	3:40
R53 ESE	4:10	4:10	3:40	3:40	3:40	R53 ESE	4:00	4:00	3:40	3:40	3:40	R53 ESE	3:40	~~4:00~~ 4:10	3:40
R54 SE	4:00	4:10	3:00	3:10	3:00	R54 SE	4:00	4:10	3:00	3:10	3:00	R54 SE	3:20	~~4:10~~ 4:00	3:10
R55 SSE	4:00	4:00	3:00	3:10	3:00	R55 SSE	4:10	4:10	3:00	3:10	3:10	R55 SSE	3:20	~~4:10~~ 4:00	3:00
R56 S	4:00	4:00	3:10	3:10	3:10	R56 S	4:10	4:00	3:00	3:10	3:10	R56 S	3:20	~~4:10~~ 4:00	3:10
R57 SSW	4:00	4:10	3:10	3:10	3:10	R57 SSW	4:10	4:10	3:10	3:10	3:10	R57 SSW	3:20	~~4:10~~ 4:00	3:10
R58 SW	4:10	4:10	3:10	3:10	3:10	R58 SW	4:10	4:10	3:10	3:10	3:10	R58 SW	3:20	~~4:00~~ 4:10	3:10
R59 WSW	4:10	4:10	3:50	3:50	3:50	R59 WSW	4:10	4:10	3:50	3:50	3:50	R59 WSW	3:50	4:10	3:50
R60 W	4:20	4:20	3:50	3:50	4:00	R60 W	4:10	4:20	3:50	4:00	3:50	R60 W	3:50	~~4:10~~ 4:20	3:50
R61 WNW	4:20	4:20	3:50	4:00	4:00	R61 WNW	4:20	4:20	3:50	3:50	4:00	R61 WNW	3:50	4:20	3:50
R62 NW	4:10	4:20	4:00	4:00	4:00	R62 NW	4:20	4:20	4:00	4:00	4:00	R62 NW	4:00	~~4:20~~ 4:10	4:00
R63 NNW	4:20	4:20	4:00	4:00	4:00	R63 NNW	4:20	4:20	4:00	4:00	4:00	R63 NNW	4:00	4:20	4:00

RCOL2_
13.03-31

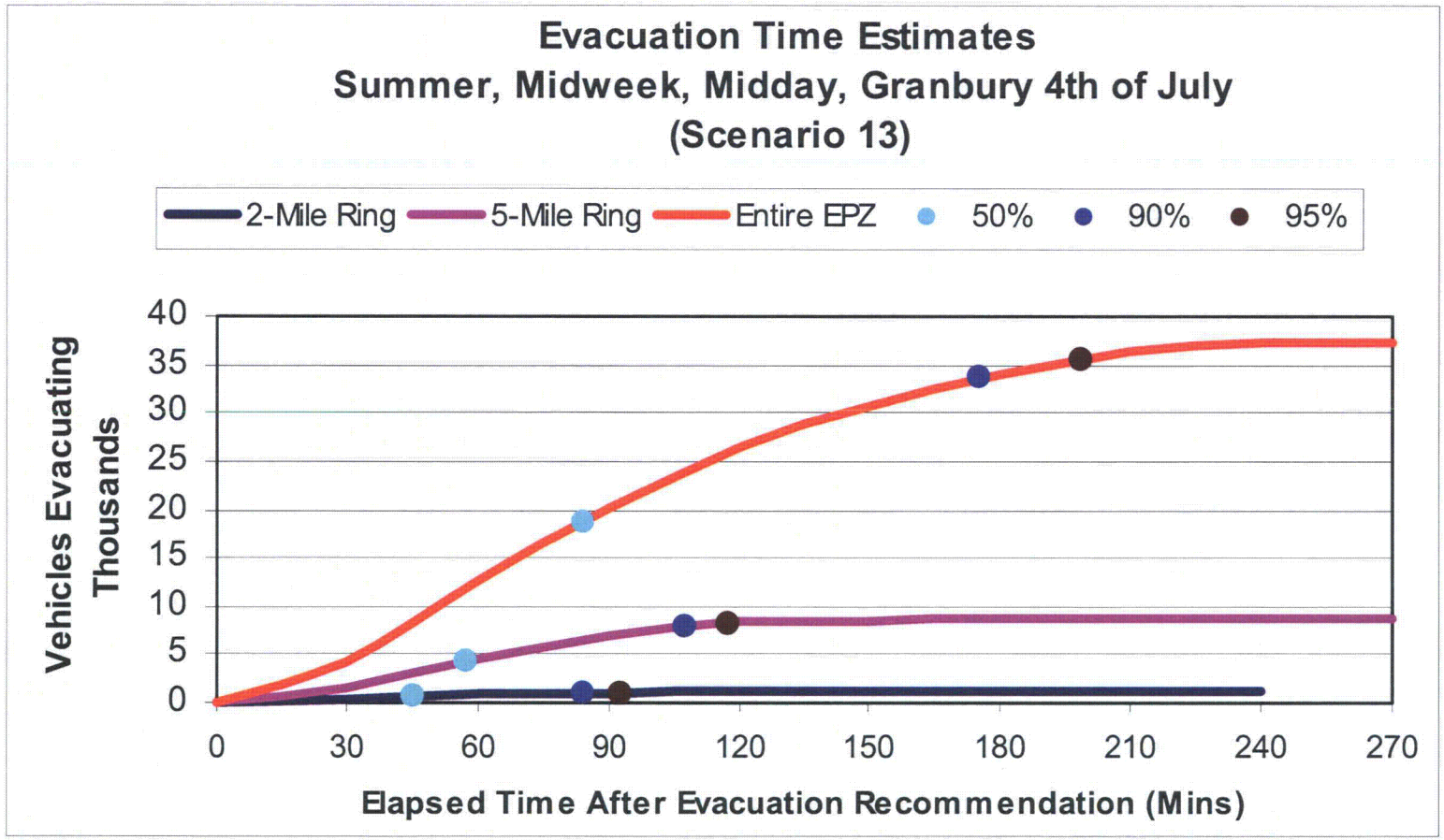


Figure J-13. Evacuation Time Estimates
Scenario 13, Region R03 (Entire EPZ)

RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

Comanche Peak, Units 3 and 4

Luminant Generation Company LLC

Docket Nos. 52-034 and 52-035

RAI NO.: 4224 (CP RAI #134)

SRP SECTION: 13.03 - Emergency Planning

QUESTIONS for Licensing and Inspection Branch (NSIR/DPR/LIB) (EP)

DATE OF RAI ISSUE: 1/25/2010

QUESTION NO.: 13.03-32

Open Item 13.03-03: Subject: Demand Estimation, Special Facility Population
[Basis: 10 CFR 50 Appendix E (IV); Appendix 4 to NUREG-0654 Sections II.C]
Acceptance Criteria: NUREG-0800, Standard Review Plan, Section 13.3, "Emergency Planning," Requirements A and H; Acceptance Criterion 11

In response to RAI 13.03-21.A, the applicant stated that capacity populations and transportation requirements for individual institutions are provided in Table 1 and included as Attachment 13.03-21A. However, Table 1 was not included in the applicant's response. Provide Table 1.

ANSWER:

Table 1 (attached) includes the transportation requirements for special facilities if capacity population is considered rather than the current census. The use of current census populations rather than peak capacity populations in the ETE analysis is discussed in the responses to Questions 13.03-33 and 13.03-36, below.

Impact on R-COLA

None.

Impact on S-COLA

None.

Impact on DCD

None.

Table 1. Special Facility Transit Demand at Capacity

ZONE	Facility Name	Municipality	Cap-acity	Current Census	Ambu-latory	Wheel-chair Bound	Bed-ridden	Ambu-lance Runs	Wheel-chair Bus Runs	Wheel-chair Van Runs	Bus Runs
HOOD COUNTY											
1D	Acorn Run Manor	Granbury	2	2	2	0	0	Facility owned vehicle			
1D	Courtyards at Lake Granbury	Granbury	112	112	60	52	0	0	3	2	2
1D	Southern Concepts	Granbury	6	6	6	0	0	Facility owned van			
4F	Granbury Villa Nursing Center	Granbury	93	93	48	34	11	6	2	1	2
4F	Victoria's Place	Granbury	19	19	19	0	0	0	0	0	1
Granbury	Gables	Granbury	77	77	54	23	0	0	2	0	2
Granbury	Granbury Care Center*	Granbury	178	178	95	68	15	8	5	0	4
Granbury	Lake Granbury Medical Center	Granbury	59	59	19	21	19	10	1	2	1
Granbury	Southern Concepts	Granbury	6	6	6	0	0	0	0	0	1
Granbury	Southern Concepts Day Activity Center	Granbury	20	20	19	1	0	0	0	1	1
Granbury	Southern Concepts*	Granbury	3	3	3	0	0	Facility owned van			
Tolar	Southern Concepts	Tolar	6	6	6	0	0	0	0	0	1
SOMERVELL COUNTY											
Glen Rose	Cherokee Rose Manor	Glen Rose	102	102	14	66	22	11	4	2	1
Glen Rose	Glen Rose Medical Center Hospital*	Glen Rose	16	16	9	6	1	1	0	2	1
Glen Rose	Glen Rose Medical Center Nursing Home*	Glen Rose	118	118	64	45	9	5	3	0	3
		Total:	**817**	**817**	**424**	**316**	**77**	**41**	**20**	**10**	**20**

RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

Comanche Peak, Units 3 and 4

Luminant Generation Company LLC

Docket Nos. 52-034 and 52-035

RAI NO.: 4224 (CP RAI #134)

SRP SECTION: 13.03 - Emergency Planning

QUESTIONS for Licensing and Inspection Branch (NSIR/DPR/LIB) (EP)

DATE OF RAI ISSUE: 1/25/2010

QUESTION NO.: 13.03-33

Open Item 13.03-04: Subject: Demand Estimation, Special Facility Population
[Basis: 10 CFR 50 Appendix E (IV); Appendix 4 to NUREG-0654 Sections II.C.
Acceptance Criteria: NUREG-0800, Standard Review Plan, Section 13.3, "Emergency Planning," Requirements A and H; Acceptance Criterion 11]

In response to RAI 13.03-21.A, the applicant stated that requirements of Section II.C of Appendix 4 of NUREG-0654 were met by using census populations for individual special facilities. However, Section IV.B of Appendix 4 of NUREG-0654/FEMA-REP-1 refers to special facilities and identifies that peak capacities shall be considered. Update the ETE Report for special facilities using peak capacity population values.

ANSWER:

The referenced Section II.C of Appendix 4 to NUREG-0654 states,

> An estimate for this special population group shall usually be done on an institution-by-institution basis. The means of transportation are also highly individualized and shall be described. Schools shall be included in this segment.

Section IV.B of Appendix 4 to NUREG-0654 states,

> Estimates for special facilities shall be made with consideration for the means of mobilization of equipment and manpower to aid in evacuation, and the needs for designated employees for staff to delay their evacuation in order to shut down industrial facilities. Each special facility shall be treated on an individual basis. Weather conditions and time of day conditions shall be considered. Consideration shall be given to the impact of peak populations including behavioral aspects.

Neither of these sections states that "peak capacity population" must be used when preparing ETEs for special facilities. Each of the special facilities listed in Table 8-4 was contacted as part of this ETE study. The census data provided did not suggest that peak capacity was appropriate for any of these facilities in the EPZ. Typically, the census at a medical facility (especially hospitals) is dynamic and can change on a daily basis. Census data concerning the condition of the patients (ambulatory, wheelchair bound and bedridden) was obtained in order to estimate the number and types of vehicles needed to evacuate the patients. Based on the census data provided by these facilities, using peak capacity values would likely overestimate the number of vehicles needed and produce an ETE for emergency conditions that are not realistic. The approach taken was discussed with local emergency management officials and found acceptable as documented in their certification letter provided in Appendix 7 of the Emergency Plan submitted in Part 5 of the COL Application. Thus, as required by NUREG-0654, peak capacities were considered, but found to be inappropriate.

Impact on R-COLA

None.

Impact on S-COLA

None.

Impact on DCD

None.

RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

Comanche Peak, Units 3 and 4

Luminant Generation Company LLC

Docket Nos. 52-034 and 52-035

RAI NO.: 4224 (CP RAI #134)

SRP SECTION: 13.03 - Emergency Planning

QUESTIONS for Licensing and Inspection Branch (NSIR/DPR/LIB) (EP)

DATE OF RAI ISSUE: 1/25/2010

QUESTION NO.: 13.03-34

Open Item 13.03-05: Subject: ETE Methodology
[Basis: 10 CFR 50 Appendix E (IV); Appendix 4 to NUREG-0654 Section I.C]
Acceptance Criteria: NUREG-0800, Standard Review Plan, Section 13.3, "Emergency Planning," Requirements A and H; Acceptance Criterion 11

In response to RAI 13.03-18.B, the applicant stated that no allowance is made for traffic control operations. The applicant also made reference to their RAI 13.03-18.A response which states, in part, that at traffic control point locations, the allocation of traffic signal green time is adjusted to balance the competing traffic volumes on major and minor routes. Provide clarification regarding allowances given that engineers adjust traffic signal green time. Update the ETE Report accordingly.

ANSWER:

The NRC "Request for Additional Information (RAI) No. 4372 COL Revision 1, RAI Number 137" dated February 18, 2010 stated:

> By letter dated January 25, 2010, the NRC staff issued RAI 134 (RAI No. 4224) for Section 13.03 – Emergency Planning. This RAI provided Questions 13.03-30 through 13.03-36. After the issuance of this RAI, the NRC staff reviewed the questions and determined that several changes were necessary. First, the NRC staff has determined that RAI 134 (RAI No. 4224), Question 13.03-34 regarding Luminant's evacuation time estimate will be deleted.

RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

Comanche Peak, Units 3 and 4

Luminant Generation Company LLC

Docket Nos. 52-034 and 52-035

RAI NO.: 4224 (CP RAI #134)

SRP SECTION: 13.03 - Emergency Planning

QUESTIONS for Licensing and Inspection Branch (NSIR/DPR/LIB) (EP)

DATE OF RAI ISSUE: 1/25/2010

QUESTION NO.: 13.03-35

Open Item 13.03-06: Subject: ETE Methodology
[Basis: 10 CFR 50 Appendix E (IV). Appendix 4 to NUREG-0654 Section I.C]
Acceptance Criteria: NUREG-0800, Standard Review Plan, Section 13.3, "Emergency Planning," Requirements A and H; Acceptance Criterion 11

In response to RAI 13.03-18.D, the applicant stated that if traffic control points in the county plans were implemented, the ETE may be less than predicted in the study. The response further discusses that no credit is taken for improved traffic operations where traffic personnel are located. However, as described in the response to RAI 13.03-18.A, the applicant adjusted the allocation of green time so that it balances the competing traffic volumes as a means to consider traffic control. Therefore, the applicant is requested to clarify whether or not it intends to take credit for traffic control based on the manner in which the analyst adjusts green time at intersections at which traffic control is present.

ANSWER:

The NRC "Request for Additional Information (RAI) No. 4372 COL Revision 1, RAI Number 137" dated February 18, 2010 stated:

> ...the NRC staff has revised RAI 134 (RAI No. 4224), Question 13.03-35 for clarification. As such, RAI 134 (RAI No. 4224), Question 13.03-35 has been replaced in its entirety...

RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

Comanche Peak, Units 3 and 4

Luminant Generation Company LLC

Docket Nos. 52-034 and 52-035

RAI NO.: 4224 (CP RAI #134)

SRP SECTION: 13.03 - Emergency Planning

QUESTIONS for Licensing and Inspection Branch (NSIR/DPR/LIB) (EP)

DATE OF RAI ISSUE: 1/25/2010

QUESTION NO.: 13.03-36

Open Item 13.03-07: Subject: Analysis of Evacuation Times, Methodology, Special Facilities
[Basis: 10 CFR 50 Appendix E (IV); Appendix 4 to NUREG-0654 Section IV.B]
Acceptance Criteria: NUREG-0800, Standard Review Plan, Section 13.3, "Emergency Planning," Requirements A and H; Acceptance Criterion 11

In response to RAI 13.03-27.B, the applicant provided Table 1, "Ambulance Resources," which summarized the ambulance resources and their respective mobilization times. In part, Table 1 indicated that there were 35 ambulances available for evacuating the special needs population. However, in response to RAI 13.03-21.A, the applicant stated that an additional 11 ambulances would be needed to support peak capacities at special facilities. It appears that the need for an additional 11 ambulances would exceed the number of ambulances available. Discuss the effect on the ETE if a second wave of ambulance runs is necessary, or if additional ambulances are used from other sources besides those listed in Table 1. Update the ETE accordingly.

ANSWER:

Table 8-4 of the ETE Report, Revision 2, shows that 30 ambulance runs are necessary to evacuate all of the bedridden patients in the EPZ, assuming 2 patients per ambulance. In the response to Question 13.03-21, Part A, Luminant stated that 11 additional ambulance runs would be required when considering special facilities at capacity populations. Luminant's response to Question 13.03-27 added Table 8-9 to the ETE Report, which shows that 35 ambulances are available for an evacuation within 60 minutes. Because 41 ambulance runs would be required when considering facilities at capacity populations and 35 ambulances are available, 6 additional ambulances would be required.
Of the 35 ambulances available within 60 minutes of the advisory to evacuate, 10 can be mobilized to evacuate patients within 15 minutes. These 10 ambulances can evacuate patients in 55 minutes and travel to a host facility by 1:30 following the advisory to evacuate. Allowing 10 minutes to unload, 15 minutes driver rest time, and 35 minutes return travel to the EPZ, these ambulances will arrive at a facility for a second wave evacuation at 2:30 following the advisory to evacuate. As stated on Page 8-10 of the ETE Report, Revision 2, ambulance loading times are conservatively estimated as 30 minutes

and ambulances will have to travel 4 miles, on average, to leave the EPZ. The average speed output by the model at 3 hours for Scenario 6 (Region 3 evacuation) is 48.2 mph; thus, travel time out of the EPZ is 5 minutes. This results in an ETE of 3:05 for a second wave ambulance evacuation, if necessary.

Section 8.5 of the ETE Report has been revised to include the calculation described above.

Impact on R-COLA

See attached Evacuation Time Estimate Draft Revision 3 page 8-10 and its insert.

Proposed revisions to the ETE Report require review by State and local governments prior to implementation. The revised ETE Report incorporating the proposed changes described in this response will be submitted to the NRC following State and local concurrence.

Impact on S-COLA

None.

Impact on DCD

None.

the bus. Loading times are estimated at 5 minutes per wheelchair bound person as staff will have to assist them on the bus. For example, the ETE for the wheelchair bound at Granbury Gables is:

ETE: 90 + 23 x 5 + 7 = 3:32.

The first and second wave ETEs for special facilities do not exceed the ETE for the general population.

Emergency Medical Services (EMS) Vehicles

The previous discussion focused on transit operations for ambulatory persons residing at medical facilities within the Evacuation Region. It is also necessary to provide transit services for non-ambulatory persons who do not – or cannot – have access to private vehicles. Based on the data provided in Table 8-4, a total of 30 ambulance runs are needed to evacuate all of the bed ridden patients in the EPZ, assuming 2 people per ambulance.

It is estimated that 30 minutes will be needed to mobilize ambulances and travel to the medical facilities. Loading times are conservatively estimated as 30 minutes. As with the buses transporting ambulatory patients, ambulances will have to travel 4 miles, on average, to leave the EPZ. The average speed output by the model at 1 hour for Scenario 6 (Region 3 evacuation) is 35.8 mph; thus, travel time out of the EPZ is 7 minutes. The ETE for ambulances is: 30 + 30 + 7 = 1:10 (rounded up to the nearest 5 minutes).

Insert A

RCOL2_13.03-36

Summer Camps and Retreats

The peak camp season is when schools are not in session, thus buses will not be needed to evacuate schools. In addition, some camps have made arrangements with transportation providers for buses to be provided in the event of an emergency. For these reasons, Table 8-8 only presents a single wave ETE for camps as bus resources will likely be sufficient. The bus mobilization time is estimated as 90 minutes. The buses are assumed to travel to the nearest Reception Center, which is in Cleburne. The average speed output by the model, 90 minutes after the ATE for Scenario 1 (summer, midweek, midday), Region 3, is 32.2 mph; this speed is used to compute travel times to the EPZ boundary. After exiting the EPZ, a speed of 40 mph is assumed. The ETEs range from 1:40 to 1:55, which is well below the ETE for the general population.

Somervell County Jail

The Somervell County Jail is located in Glen Rose approximately 4 miles from the power plant. If an evacuation of the facility is advised, school buses will be used. The

Section 8.5:

INSERT A:

RAI 13.03-36

If a second wave evacuation is necessary, 10 ambulances can be mobilized to evacuate patients within 15 minutes of the ATE, based on the ambulance resource information provided in Table 8-9. These 10 ambulances can evacuate patients in 55 minutes and travel to a host facility by 1:30 following the ATE. Allowing 10 minutes to unload, 15 minutes driver rest time, and 35 minutes return travel to the EPZ, these ambulances will arrive at a facility for a second wave evacuation at 2:30 following the ATE. As stated above, ambulance loading times are conservatively estimated as 30 minutes and ambulances will have to travel 4 miles, on average, to leave the EPZ. The average speed output by the model at 3 hours for Scenario 6 (Region 3 evacuation) is 48.2 mph; thus, travel time out of the EPZ is 5 minutes. This results in an ETE of 3:05 for a second wave ambulance evacuation, if necessary.