

Appendix H

Summary of Direct Radiation Monitoring Data

This page intentionally left blank

Table H-1
Summary of 2006 Quarterly Averages of Off-Site TLD Measurements
(mR±2 SD/quarter)

Location Number^a	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Location Average
DFTLD01	16±4	17±4	20±4	17±4	17±4
DFTLD02	16±4	17±4	21±5	18±4	18±4
DFTLD03	14±4	14±3	18±4	15±4	15±4
DFTLD04	15±4	16±3	19±4	18±4	17±4
DFTLD05	16±4	17±3	20±4	17±4	17±4
DFTLD06	15±4	16±3	21±5	17±4	17±4
DFTLD07	12±3	14±3	18±4	15±3	15±3
DFTLD08	16±4	17±4	21±5	18±4	18±4
DFTLD09	16±4	16±3	18±4	17±4	17±4
DFTLD10	15±4	16±3	18±4	16±4	16±4
DFTLD11	13±4	13±3	17±4	14±3	15±3
DFTLD12	15±4	16±3	16±4	17±4	16±4
DFTLD13	17±4	18±4	21±5	19±4	19±4
DFTLD14	16±4	17±3	21±5	17±4	18±4
DFTLD15	15±4	16±3	19±4	18±4	17±4
DFTLD16	15±4	16±3	20±4	16±4	16±4
DFTLD20	14±4	14±3	17±4	15±3	15±3
DFTLD21	17±4	17±4	21±5	18±4	18±4
DFTLD22	16±4	18±4	21±4	19±4	18±4
DFTLD23	16±4	17±4	19±4	18±4	17±4

^a Off-site locations are shown on Figures A-13, A-14, and A-15.

Conversion factor: Milliroentgen (mR) units are used to report exposure rates in air. To convert mR to mrem (dose to humans), a conversion factor of 1.03 must be applied. For example, a reported exposure rate of 18.1 mR/quarter would be equivalent to 18.6 mrem/quarter (based upon dose-equivalent phantom calibration using cesium-137).

Table H-2
Summary of 2006 Quarterly Averages of On-Site TLD Measurements
(mR±2 SD/quarter)

Location Number^a	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Location Average
DNTLD19	18±4	20±4	22±5	21±5	20±4
DNTLD24	431±84	434±85	412±81	432±85	427±84
DNTLD25	19±5	20±4	23±5	21±5	21±5
DNTLD26	20±5	22±5	24±5	23±5	22±5
DNTLD27	17±4	18±4	20±4	19±4	18±4
DNTLD28	20±5	20±4	26±5	22±5	22±5
DNTLD29	19±5	20±4	24±5	20±4	21±5
DNTLD30	19±5	21±4	24±5	21±5	21±5
DNTLD33	25±6	28±6	33±7	36±7	30±6
DNTLD35	76±15	75±15	80±16	84±17	79±16
DNTLD36	91±18	64±13	78±15	97±19	83±16
DNTLD38	34±7	31±6	34±7	32±7	33±7
DNTLD39	43±9	47±9	49±10	48±10	47±9
DNTLD40	112±22	100±20	105±21	82±16	100±20
DNTLD43	31±7	27±5	35±7	42±8	33±7

^a On-site locations are shown on Figure A-12.

Conversion factor: Milliroentgen (mR) units are used to report exposure rates in air. To convert mR to mrem (dose to humans), a conversion factor of 1.03 must be applied. For example, a reported exposure rate of 18.1 mR/quarter would be equivalent to 18.6 mrem/quarter (based upon dose-equivalent phantom calibration using cesium-137).

Table H-3
Third-Quarter 2006 TLD Results and Instantaneous Exposure Rate Readings
With a High-Pressure Ion Chamber (HPIC) at Each Monitoring Location

Off-Site Location Number	3rd-Quarter TLD Result (μR/hr)	3rd-Quarter HPIC Result (μR/hr)	On-Site Location Number	3rd-Quarter TLD Result (μR/hr)	3rd-Quarter HPIC Result (μR/hr)
DFTLD01	9.0	6.2	DNTLD19	9.8	10.0
DFTLD02	9.4	8.8	DNTLD24	186.7	233.0
DFTLD03	8.1	8.1	DNTLD25	10.6	12.5
DFTLD04	8.7	8.9	DNTLD26	10.9	11.4
DFTLD05	8.8	10.4	DNTLD27	9.2	9.1
DFTLD06	9.4	9.4	DNTLD28	11.6	10.3
DFTLD07	8.0	8.6	DNTLD29	10.9	10.6
DFTLD08	9.7	8.8	DNTLD30	11.0	13.0
DFTLD09	8.3	8.9	DNTLD33	14.7	15.8
DFTLD10	8.3	9.0	DNTLD35	36.0	44.7
DFTLD11	7.7	7.3	DNTLD36	35.3	47.3
DFTLD12	7.2	9.2	DNTLD38	15.5	21.0
DFTLD13	9.7	9.3	DNTLD39	22.1	24.0
DFTLD14	9.5	9.2	DNTLD40	47.6	52.4
DFTLD15	8.8	9.1	DNTLD43	15.9	18.9
DFTLD16	8.8	9.1			
DFTLD20	7.7	9.6			
DFTLD21	9.4	9.3			
DFTLD22	9.3	9.2			
DFTLD23	8.6	9.0			

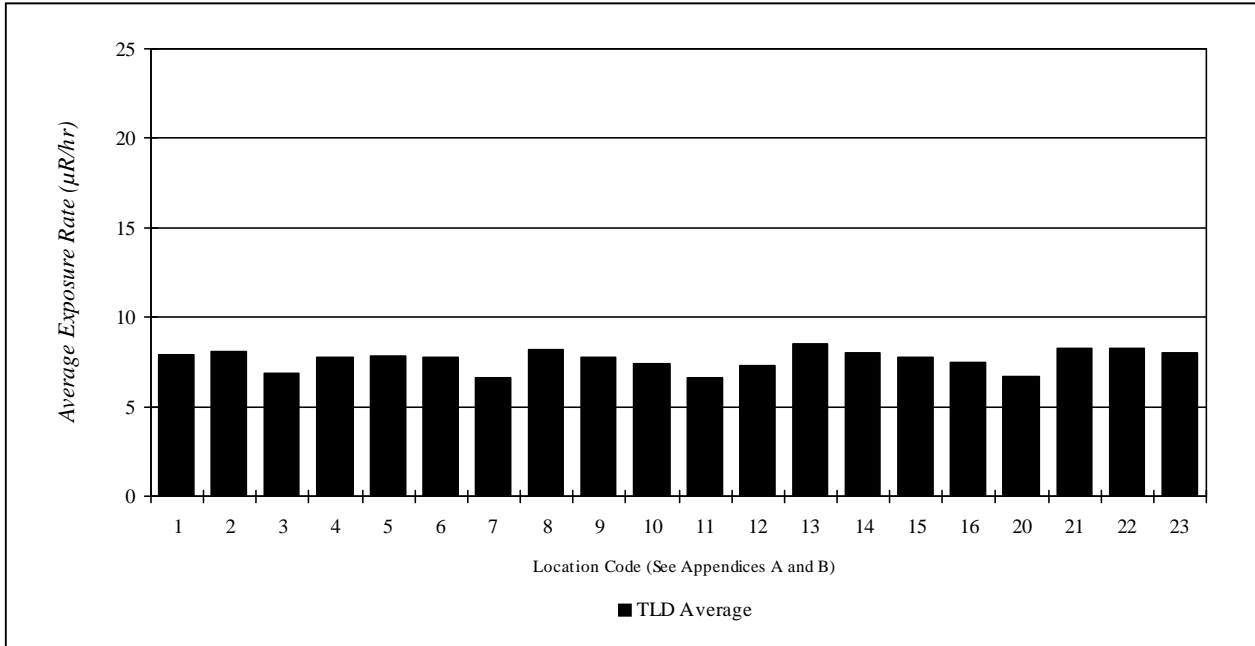


Figure H-1. 2006 Average Annual Gamma Exposure Rates Around the WVDP

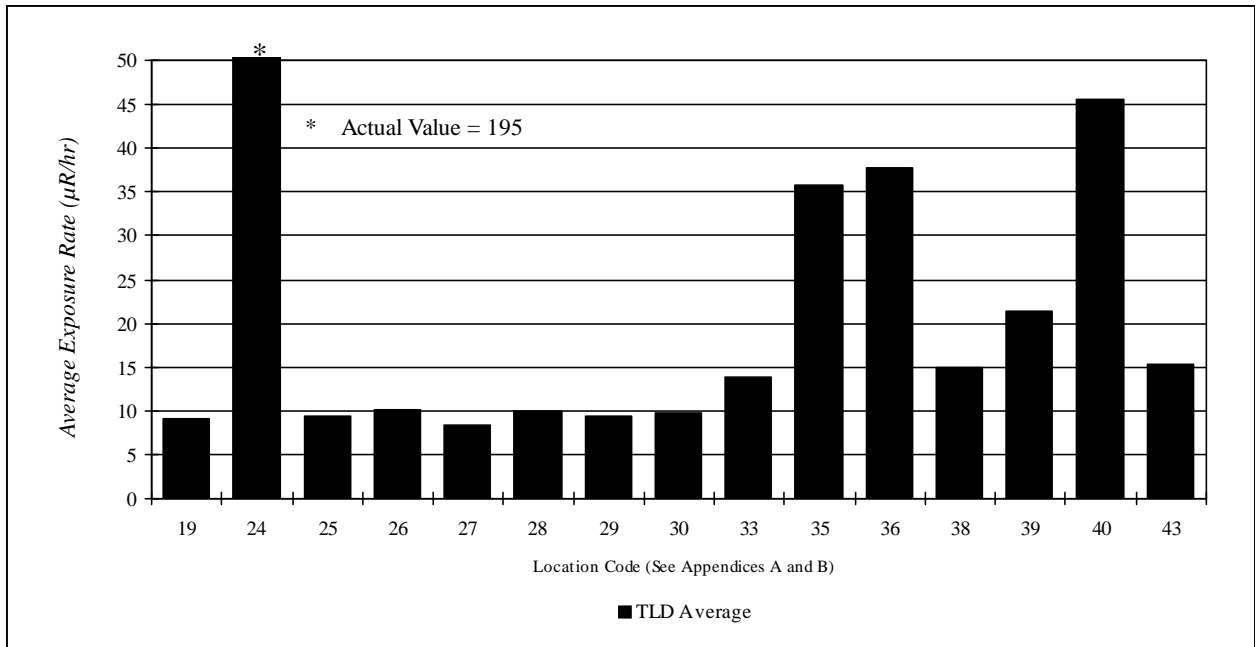


Figure H-2. 2006 Average Annual Gamma Exposure Rates on the WVDP