

Appendix H

Summary of Direct Radiation Monitoring Data

This page intentionally left blank

Table H-1
Summary of 2004 Quarterly Averages of Off-Site TLD Measurements
(mR±2 SD/quarter)

Location Number*	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Location Average
DFTLD01	17±4	20±4	15±4	17±4	17±4
DFTLD02	17±4	22±5	15±4	18±4	18±4
DFTLD03	15±3	17±4	12±3	16±4	15±4
DFTLD04	16±4	19±4	14±4	19±4	17±4
DFTLD05	17±4	19±4	14±4	17±4	17±4
DFTLD06	16±4	19±4	13±4	16±4	16±4
DFTLD07	14±3	17±4	11±3	12±3	13±3
DFTLD08	16±4	21±5	15±4	18±4	17±4
DFTLD09	16±4	20±4	14±4	16±4	16±4
DFTLD10	15±3	18±4	14±4	17±4	16±4
DFTLD11	15±3	18±4	12±3	14±4	15±4
DFTLD12	17±4	20±4	14±4	17±4	17±4
DFTLD13	17±4	21±5	16±4	17±4	18±4
DFTLD14	17±4	20±4	14±4	16±4	17±4
DFTLD15	15±3	NA	14±4	16±4	15±3
DFTLD16	16±4	19±4	14±4	16±4	16±4
DFTLD20	14±3	18±4	10±3	13±3	14±3
DFTLD21	18±4	21±4	14±4	17±4	17±4
DFTLD22	17±4	21±5	15±4	18±4	18±4
DFTLD23	17±4	19±4	14±4	19±4	17±4

NA - Not available; TLD card missing second quarter of 2004.

* Off-site locations are shown on Figures A-11, A-12, and A-13.

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 2004 Quarterly Averages of On-Site TLD Measurements
(mR±2SD/quarter)

Location Number*	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Location Average
DNTLD18	26±5	30±6	24±5	27±6	27±6
DNTLD19	18±4	22±5	17±4	19±4	19±4
DNTLD24	471±92	473±93	484±95	472±93	475±93
DNTLD25	20±4	24±5	21±5	23±5	22±5
DNTLD26	19±4	25±5	19±4	20±5	21±5
DNTLD27	17±4	20±4	14±4	19±4	18±4
DNTLD28	18±4	22±5	17±4	20±5	20±4
DNTLD29	19±4	24±5	18±4	22±5	20±4
DNTLD30	20±4	24±5	19±5	23±5	21±5
DNTLD31	17±4	21±4	15±4	17±4	17±4
DNTLD32	27±5	21±5	24±5	26±6	24±5
DNTLD33	27±5	31±6	25±5	28±6	28±6
DNTLD34	45±9	49±10	42±9	47±9	46±9
DNTLD35	65±13	71±14	58±12	53±11	62±12
DNTLD36	33±7	22±5	29±6	45±9	32±7
DNTLD38	30±6	35±7	29±6	55±11	37±8
DNTLD39	41±8	50±10	49±10	50±10	48±10
DNTLD40	105±21	117±23	115±23	112±22	112±22
DNTLD42	75±15	73±14	68±14	68±14	71±14
DNTLD43	26±5	30±6	23±5	26±6	26±5

* On-site locations are shown on Figure A-10.

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 2004 TLD Results and Instantaneous Exposure Rate Readings
($\mu\text{R/hr}$) With a High-Pressure Ion Chamber (HPIC) at Each Monitoring
Location

Off-Site Location Number	3rd-Quarter TLD Result	3rd-Quarter HPIC Result	On-Site Location Number	3rd-Quarter TLD Result	3rd-Quarter HPIC Result
DFTLD01	6.8	9.5	DNTLD18	11.0	13.7
DFTLD02	7.1	9.5	DNTLD19	7.9	9.5
DFTLD03	5.3	8.3	DNTLD24	221.6	303.9
DFTLD04	6.4	8.1	DNTLD25	9.8	11.3
DFTLD05	6.5	8.9	DNTLD26	8.6	10.7
DFTLD06	5.9	9.1	DNTLD27	6.6	8.6
DFTLD07	4.9	8.9	DNTLD28	7.8	9.1
DFTLD08	6.7	8.6	DNTLD29	8.0	9.6
DFTLD09	6.3	9.0	DNTLD30	8.8	11.6
DFTLD10	6.3	8.8	DNTLD31	6.7	8.0
DFTLD11	5.3	8.7	DNTLD32	10.9	14.9
DFTLD12	6.2	8.9	DNTLD33	11.3	13.3
DFTLD13	7.4	8.7	DNTLD34	19.1	23.0
DFTLD14	6.6	8.7	DNTLD35	26.6	36.9
DFTLD15	6.3	8.6	DNTLD36	13.0	17.8
DFTLD16	6.3	8.6	DNTLD38	13.2	16.9
DFTLD20	4.7	8.9	DNTLD39	22.6	24.9
DFTLD21	6.6	9.1	DNTLD40	52.7	54.5
DFTLD22	6.8	9.3	DNTLD42	31.2	26.2
DFTLD23	6.4	8.9	DNTLD43	10.3	11.9

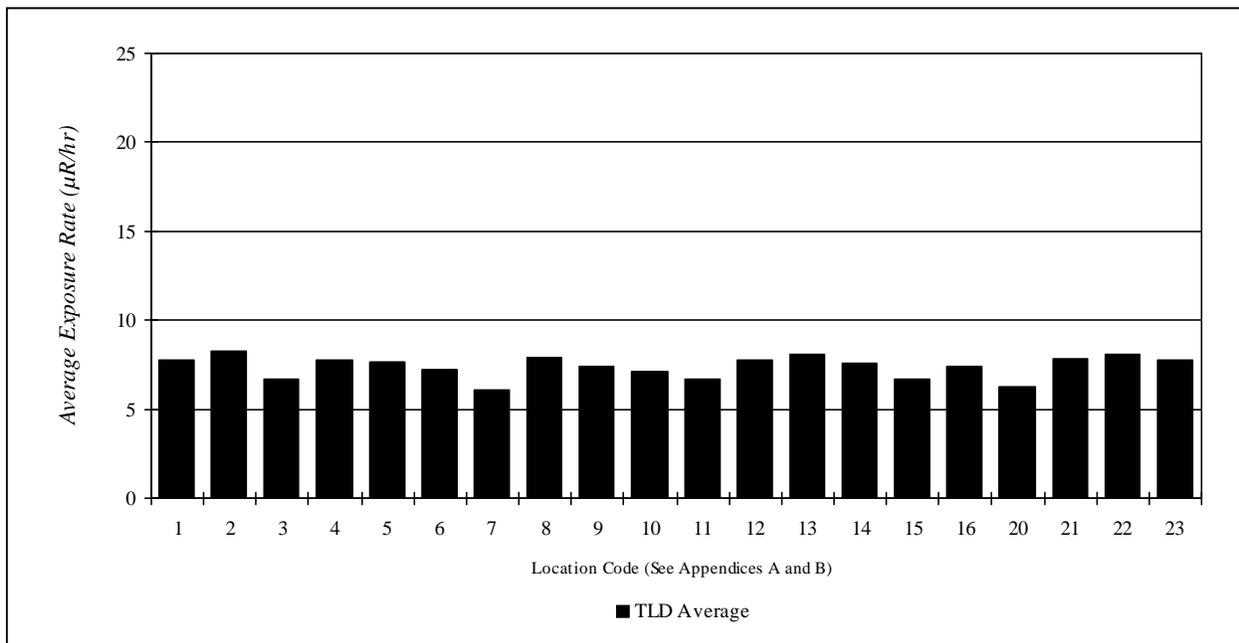


Figure H-1. 2004 Average Yearly Gamma Exposure Rates Around the WVDP

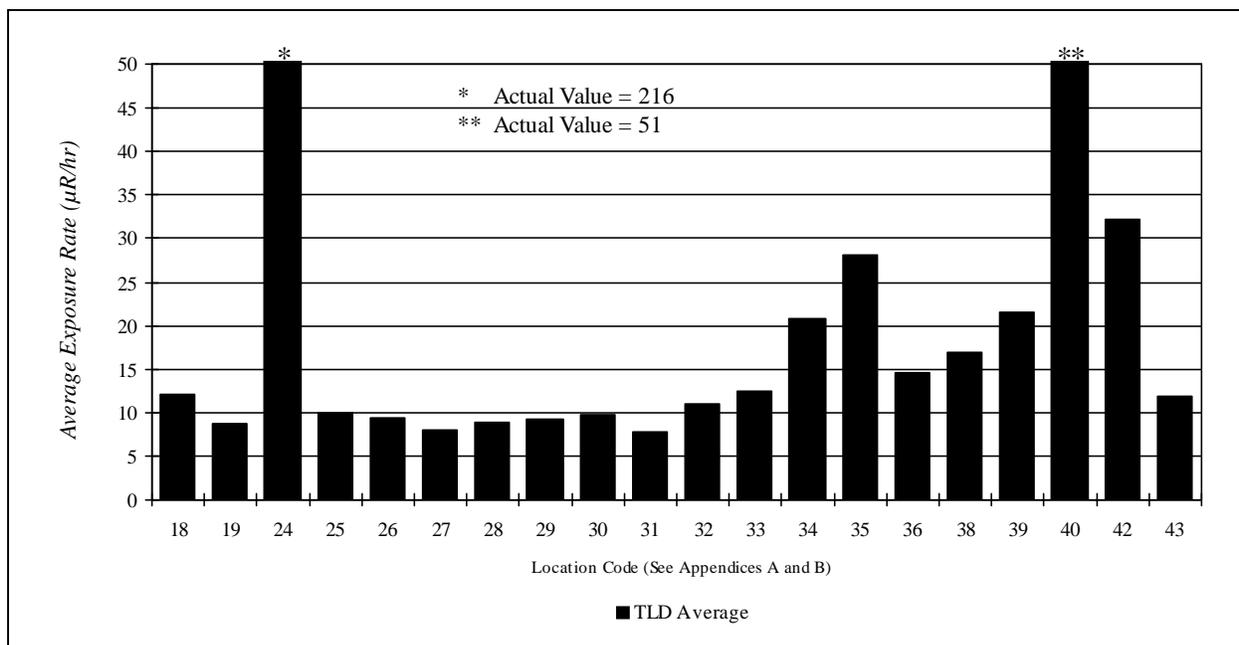


Figure H-2. 2004 Average Yearly Gamma Exposure Rates on the WVDP