

4.0 EXTERNAL RADIATION

External radiation fields were monitored near facilities and waste handling, storage, and disposal sites to measure and assess the impacts of operations. TLDs were used at numerous fixed locations to gather dose rate information over extended periods of time, typically three months.

In 2003, there were 134 TLD locations collecting external radiation information. At three of the operational areas, the dosimeter results showed a decrease of 6% or more in external radiation from 2002 levels. In the 100-K Area, there was temporary, significant increase in the annual average dose rate, attributable to the transfer and storage of radioactive materials associated with fuel storage basins clean-up activities (see details below). At the remaining operational areas, changes in the external radiation levels from 2002 to 2003 were 5% or less. The number of TLD locations and a comparison summary between the 2002 and 2003 TLD results for each of the operational areas is provided in Table 4-1. Individual TLD results for 2003 are provided in Table 4-2. Maps illustrating TLD locations in 2003 are provided in Figures 4-1 through 4-10.

Table 4-1. Thermoluminescent Dosimeter Results (mrem/yr
± 2 standard deviations) for 2002 and 2003.

Area	Number of locations, 2003	2002			2003			% Change ^a
		Maximum	Mean	± 2SD	Maximum	Mean	± 2SD	
100-B/C	4	93	87	± 9.0	88	85	± 5.0	-2
100-F	5	93	86	± 9.0	80	76	± 4.0	-12
100-K	11	439	129	± 210	523	162	± 304	26
CVDF ^b	4	83	79	± 5.0	82	80	± 6.0	1
100-KR-1	5	106	96	± 20	103	95	± 15	-1
100-N	14	1042	274	± 543	993	261	± 485	-5
200 East Area	42	289	113	± 97	482	118	± 138	4
200 West Area	24	215	108	± 64	189	106	± 52	-2
200 North (212-R)	1	3400	3200	± 400	3400	3000	± 570	-6
300 Area	8	129	99	± 39	112	92	± 24	-7
300 TEDF ^c	6	88	85	± 4.0	90	85	± 5.0	0
400 Area	7	86	82	± 5.0	85	81	± 5.0	-1
ERDF ^d	3	95	90	± 10	99	94	± 11	4

^aNumbers indicate a decrease (-) or increase from the 2002 mean.

^bCVDF = Cold Vacuum Drying Facility (100-K Area).

^cTEDF = 300 Area Treated Effluent Disposal Facility.

^dERDF = Environmental Restoration Disposal Facility.

Noteworthy observations in dose rate monitoring during 2003 included:

- In the 100-K Area, compared to 2002, there was an overall 26% increase in the 2003 annual average dose rate. This increase was due to temporary, elevated dose rates at two monitoring locations situated near radioactive materials transfer and

storage areas -- one near the 105-K East load-out station and the other near the 105-K West fuel storage basin. Dose rates at both locations decreased by year's end to typical Site background levels. The 2003 quarterly results from these locations as compared to the 100-K Area dose rate average are shown in graph form in Figure 4-11.

- In the 100-N Area, three of the five monitoring locations near the retired 116-N-1 Liquid Waste Disposal Facility (LWDF) Trench showed a slight increase of approximately 17% in annual average dose rate levels compared to those measured at these locations in 2002. This increase may be ascribed to the selective removal of low-level, radioactively contaminated material from selected portions of the Trench soil column. Removal of this layer of natural shielding from atop the residual, slightly higher-level radioactively contaminated subsurface materials led to the moderate increases observed in dose rates in the immediate vicinity of the excavation work. Remedial action activities will resume in mid-2004 to remove additional contamination with a scheduled completion date of fiscal year 2005. Figure 4-12 provides four year trend plots of quarterly dose rates from these three monitoring locations.
- In the 100-N Area, the 2003 annual average dose rate levels at the three monitoring locations at the 116-N-3 Facility showed a decrease of approximately 12% from 2002 levels. This reduction in dose rates was directly attributable to the removal of source material from the waste disposal facilities by the ERC. Overall, the average dose rate measured in the 100-N Area in 2003 was ~5% lower than that measured in 2002. Figure 4-13 provides four year trend plots of quarterly dose rates from these three monitoring locations.

4-3

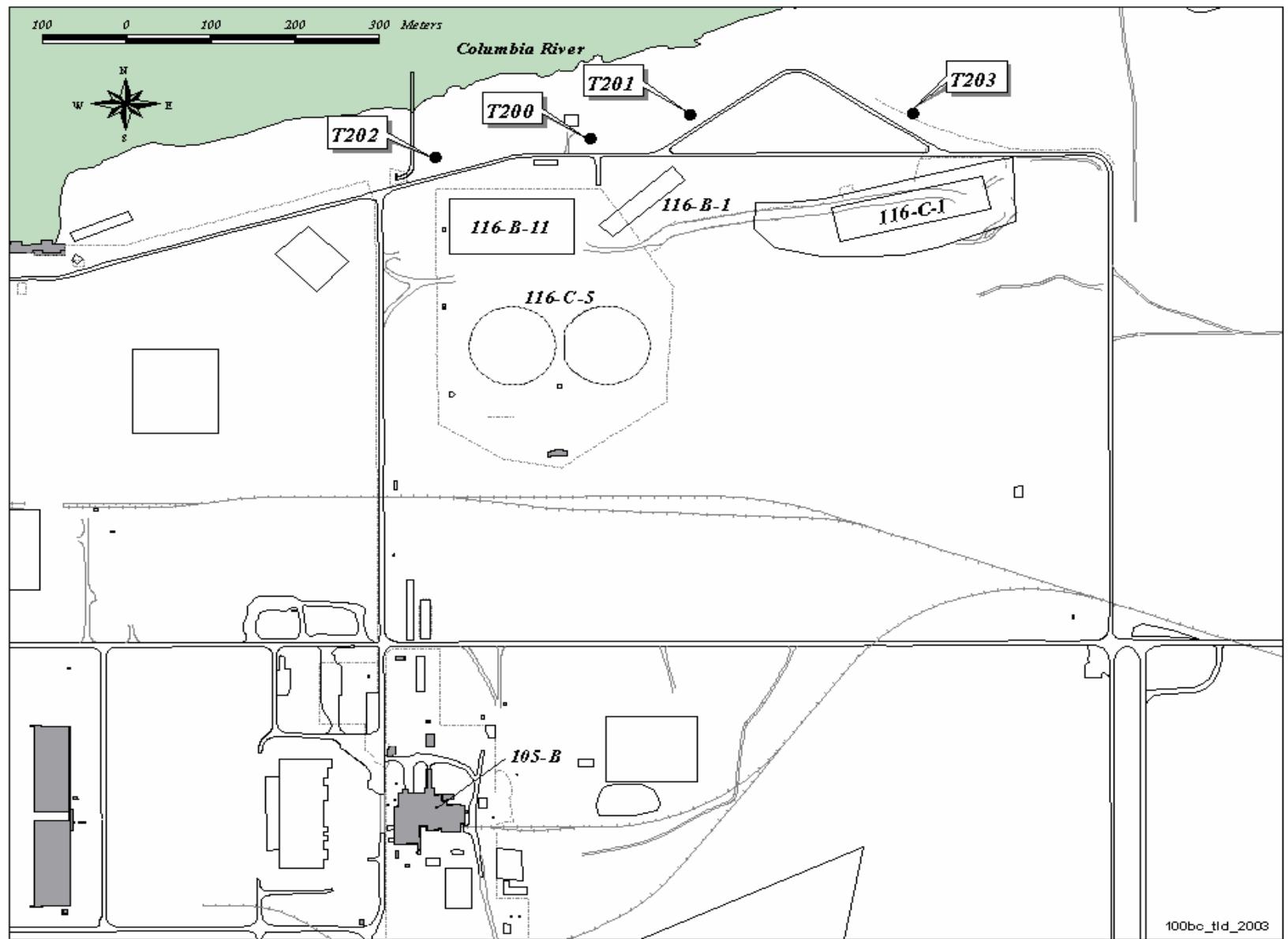


Figure 4-1. 2003 Thermoluminescent Dosimeter Locations, 100-B/C Area.

4-4

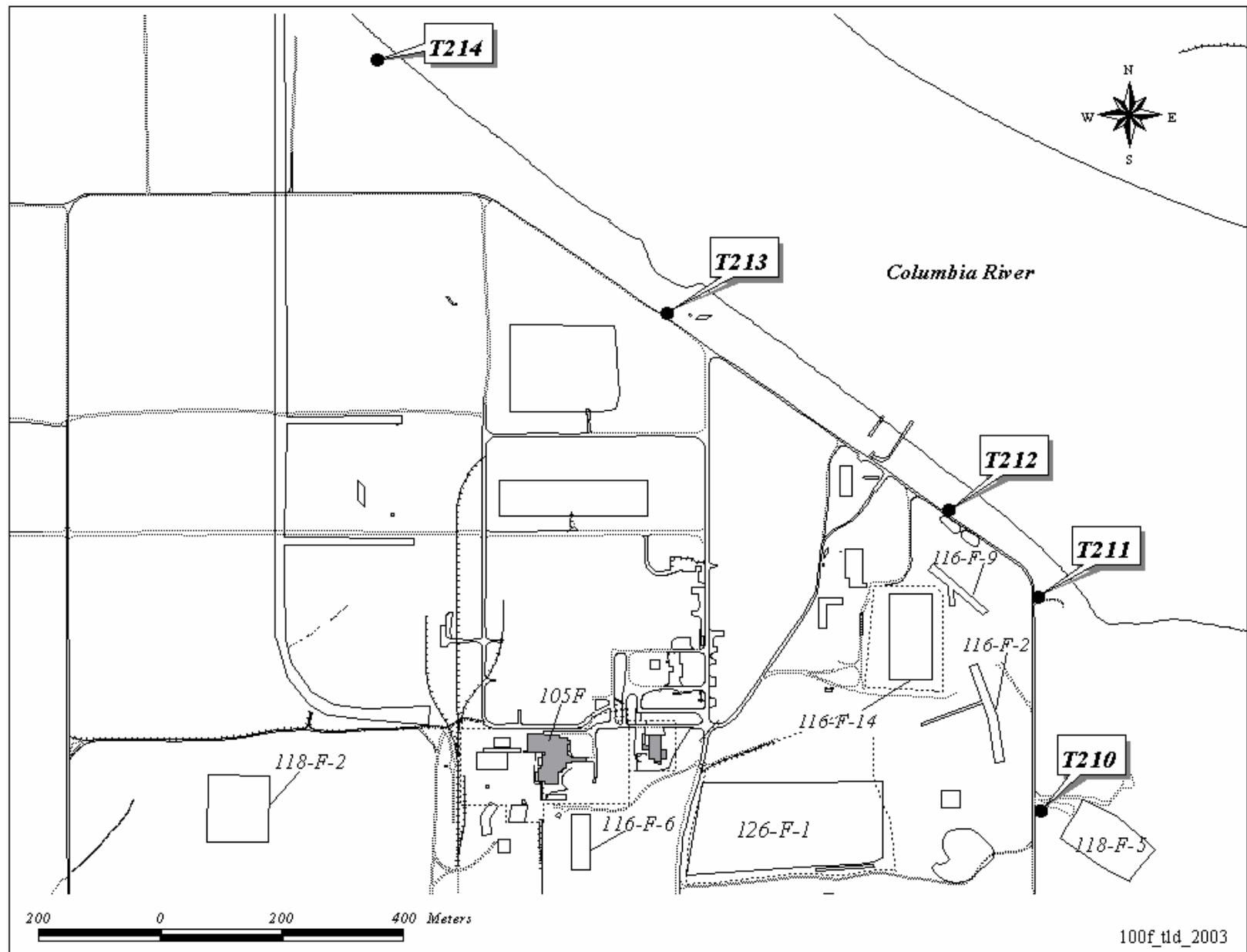


Figure 4-2. 2003 Thermoluminescent Dosimeter Locations, 100-F Area.

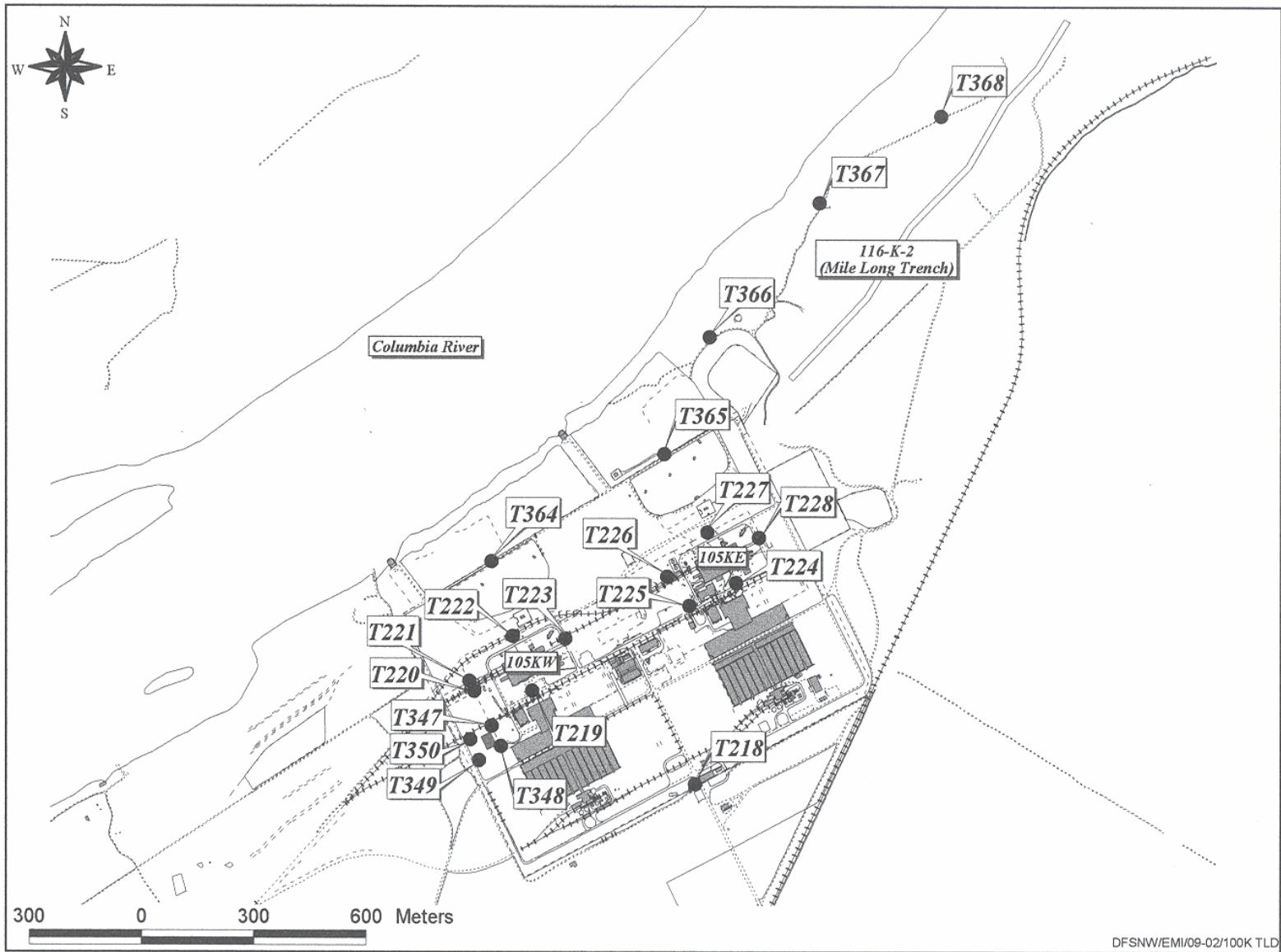


Figure 4-3. 2003 Thermoluminescent Dosimeter Locations, 100-K Area, Cold Vacuum Drying Facility and 100-KR-1.

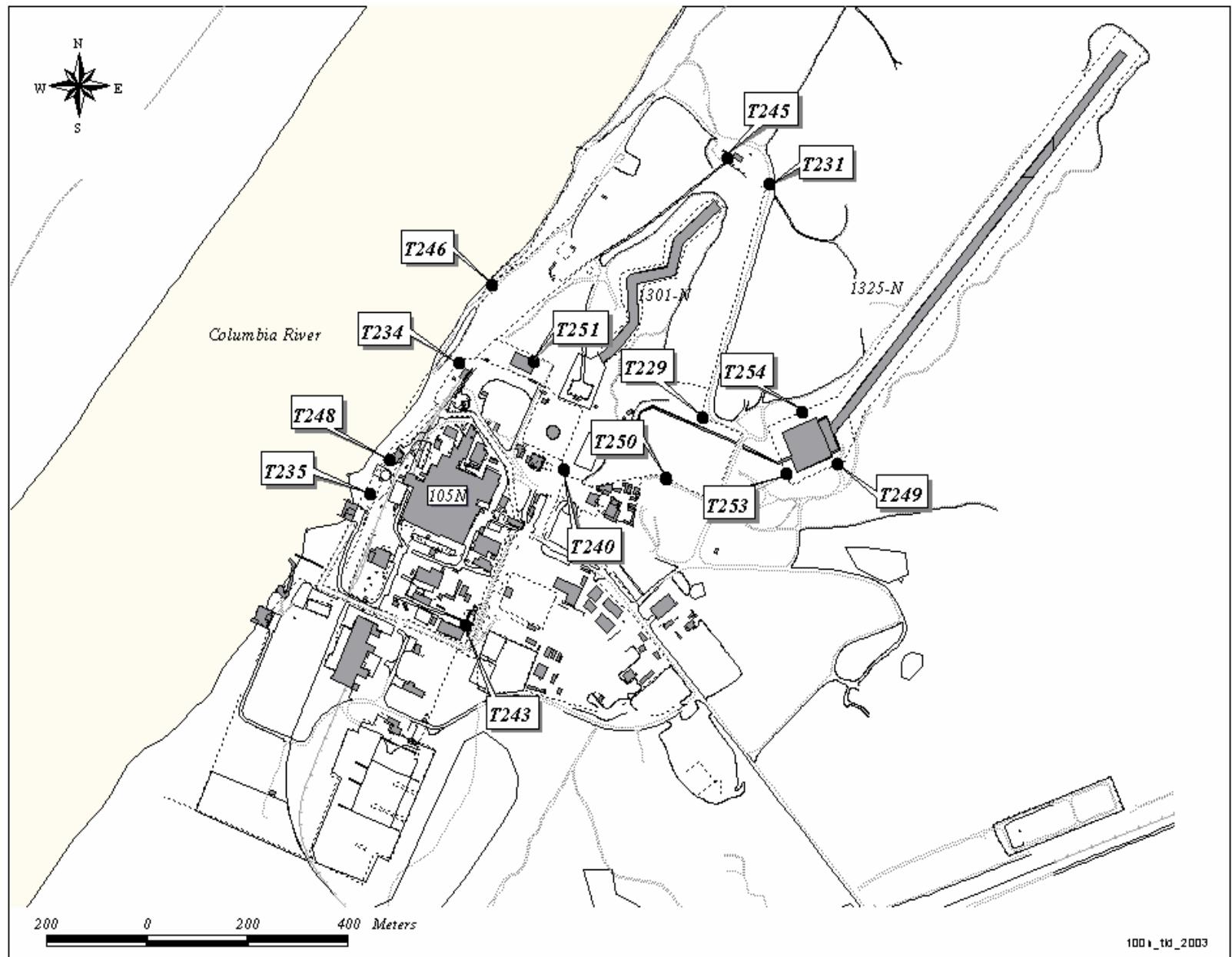


Figure 4-4. 2003 Thermoluminescent Dosimeter Locations, 100-N Area.

4-7

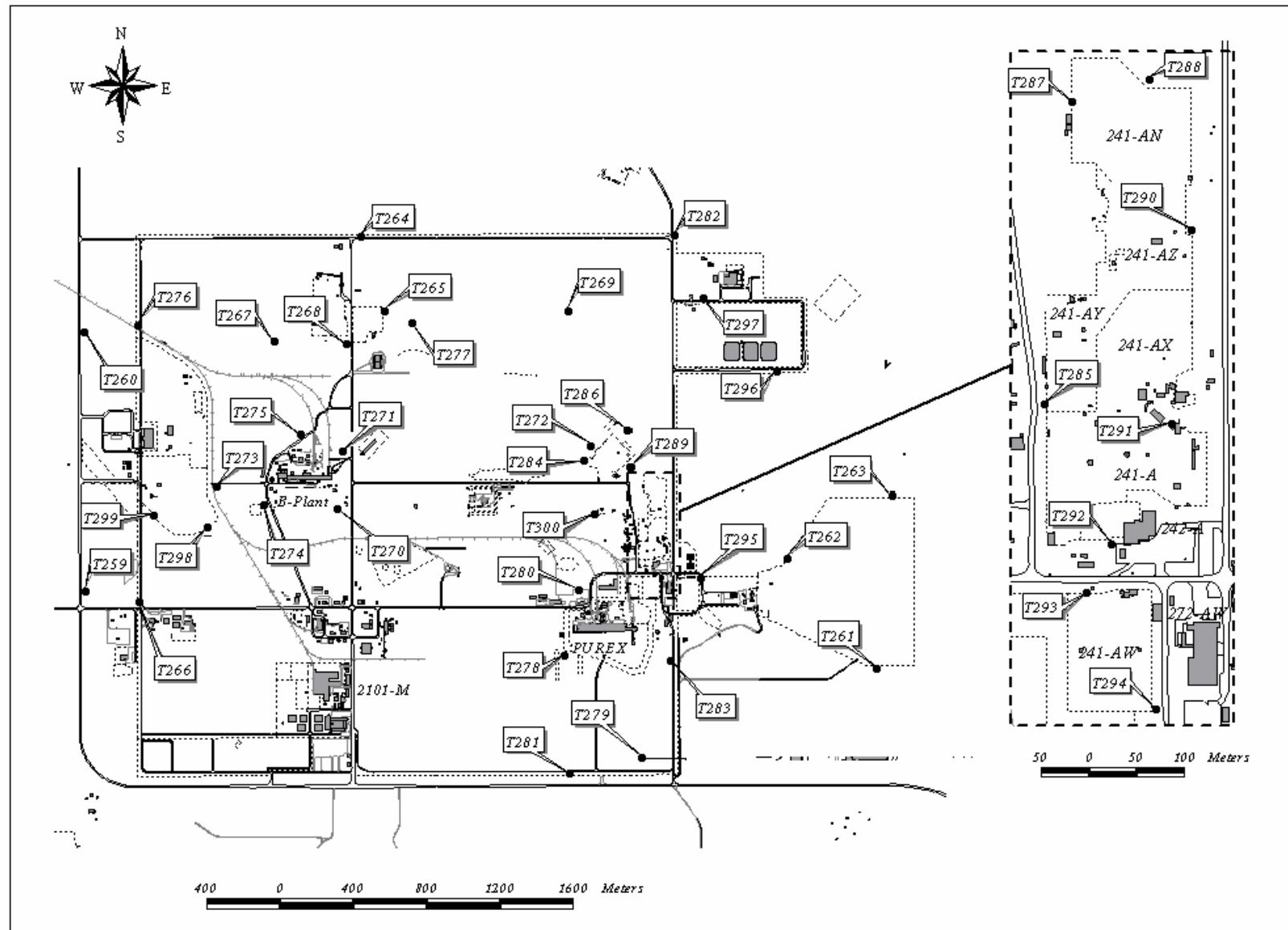


Figure 4-5. 2003 Thermoluminescent Dosimeter Locations, 200 East Area.

Figure 4-6. 2003 Thermoluminescent Dosimeter Locations, 200 West Area.

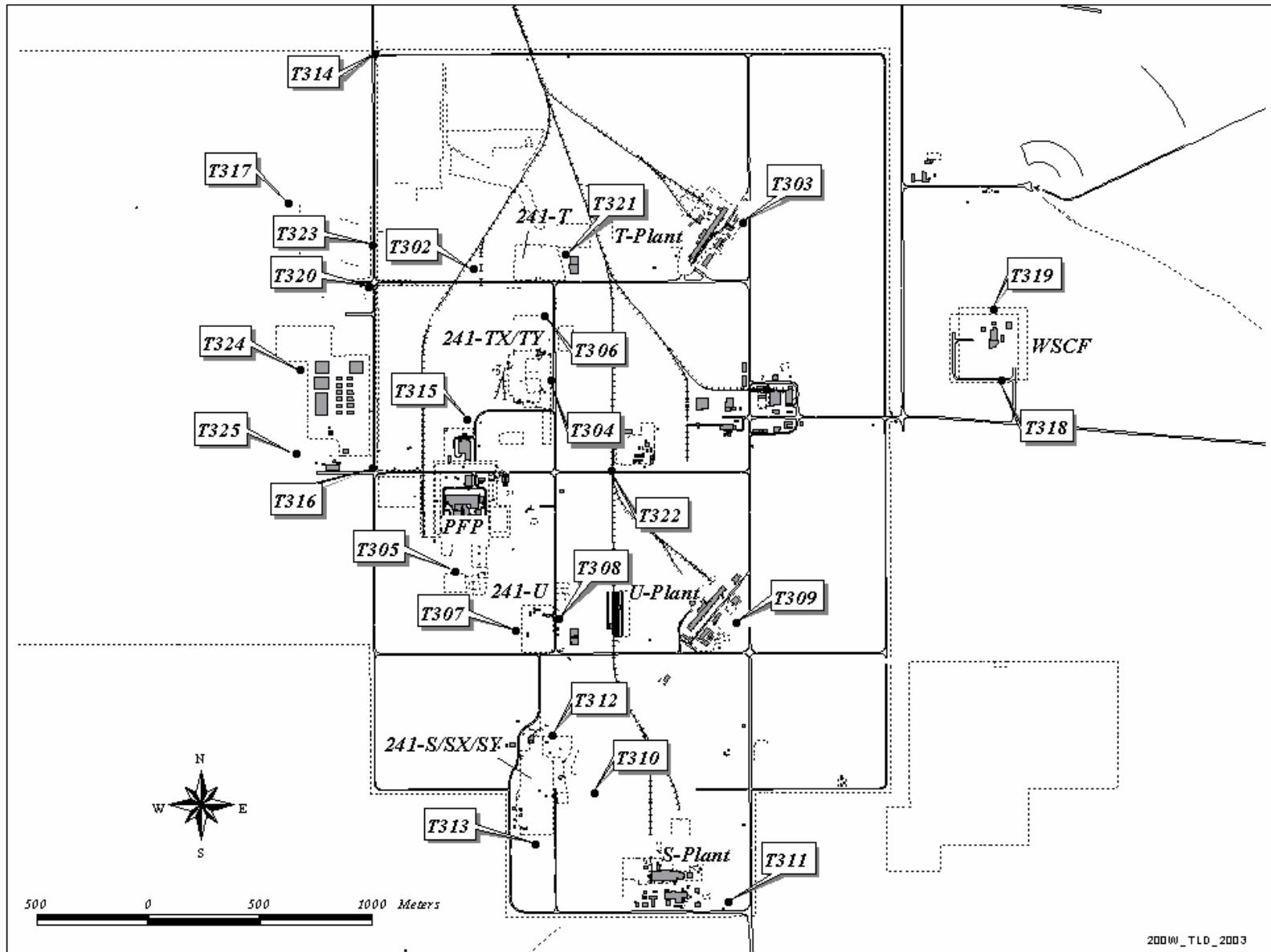


Figure 4-7. 2003 Thermoluminescent Dosimeter Locations, 200 North Area.



Figure 4-8. 2003 Thermoluminescent Dosimeter Locations, 300 Area
Treated Effluent Disposal Facility and 300 Area.



4-11

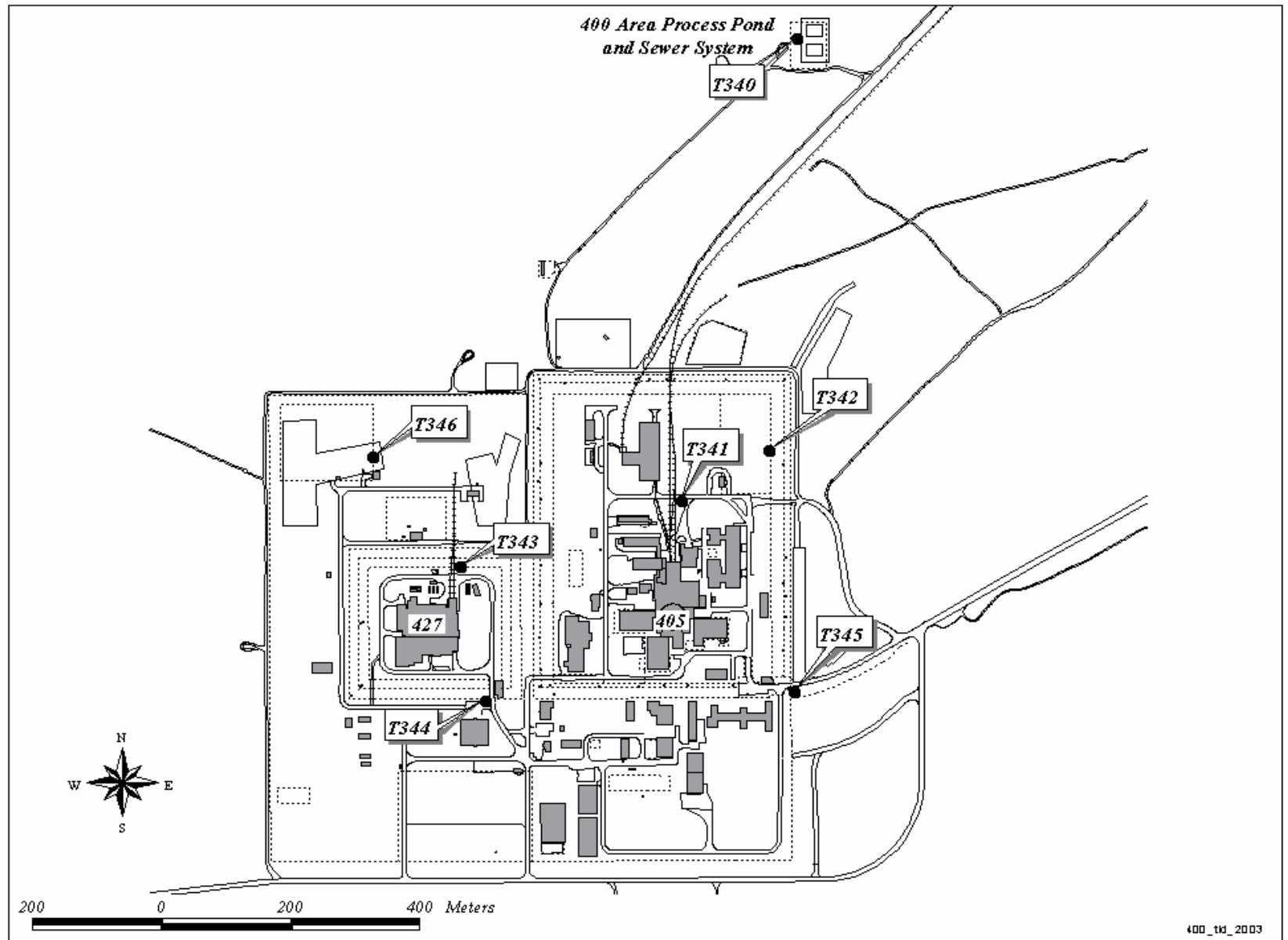


Figure 4-9. 2003 Thermoluminescent Dosimeter Locations, 400 Area.

Figure 4-10. 2003 Thermoluminescent Dosimeter Locations,
Environmental Restoration Disposal Facility.

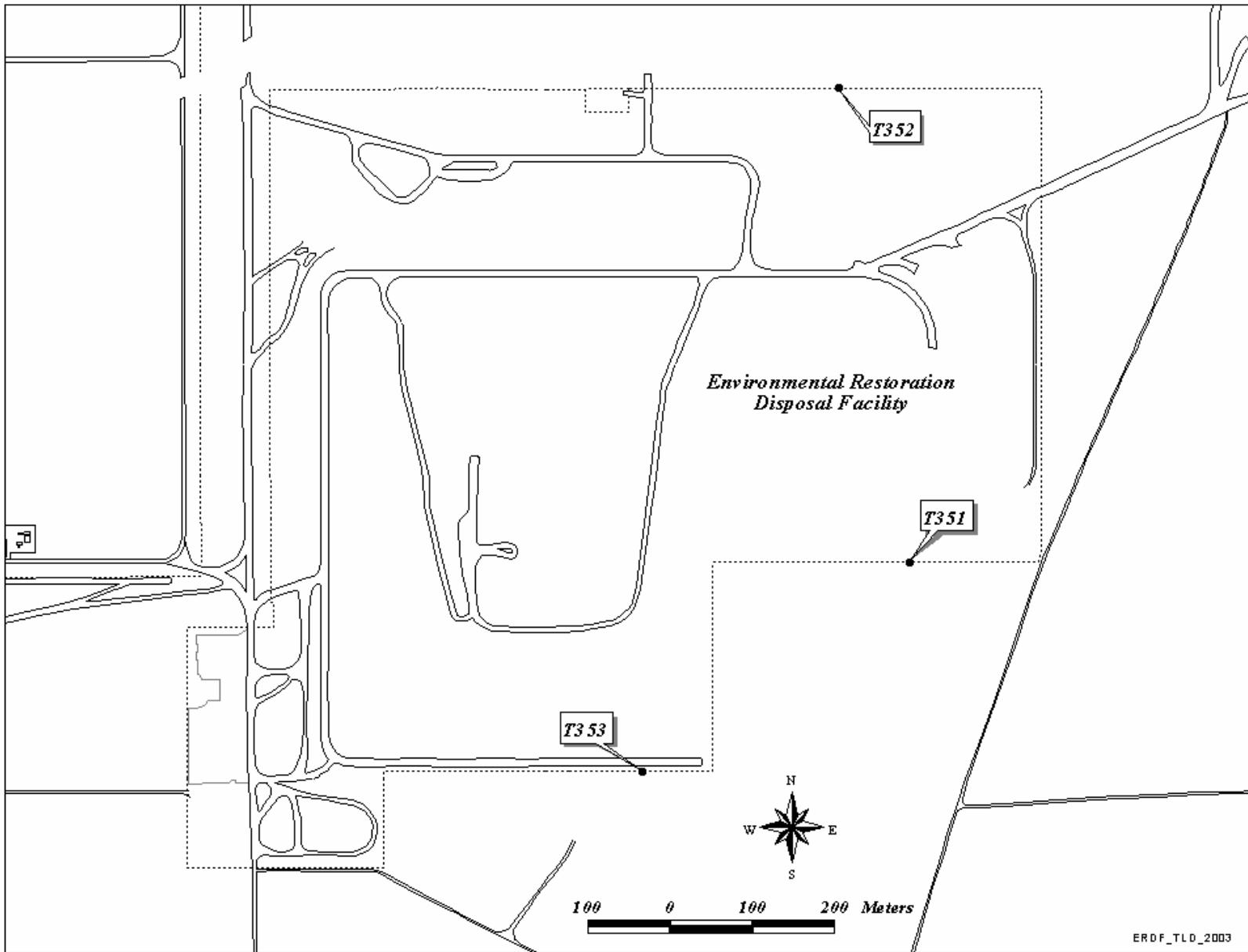
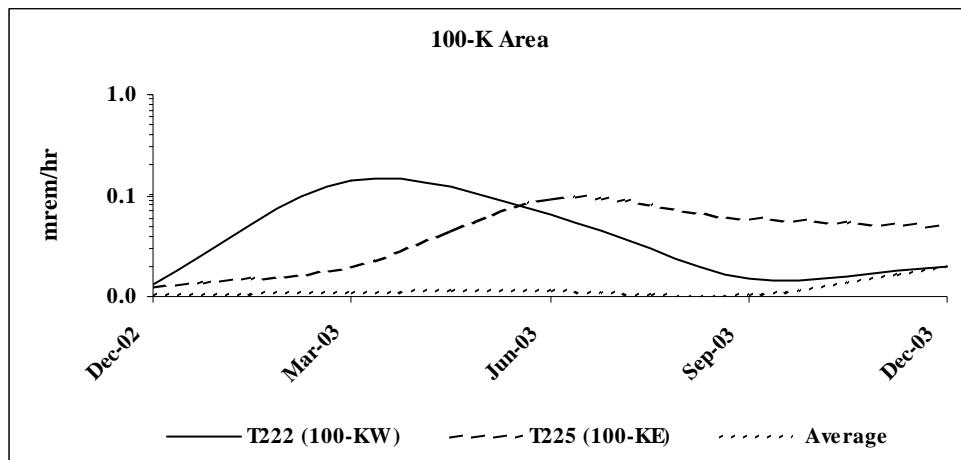


Figure 4-11. Thermoluminescent Dosimeter Results, 100-K Area



note: 100-K area, "average" values do not include T222 and T225 results.

Figure 4-12. Thermoluminescent Dosimeter Results, 100-N Area

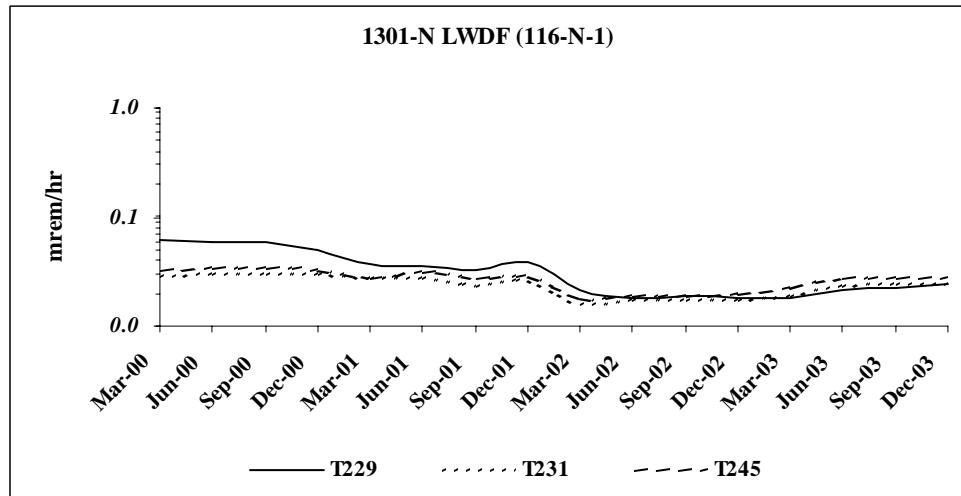


Figure 4-13. Thermoluminescent Dosimeter Results, 100-N Area

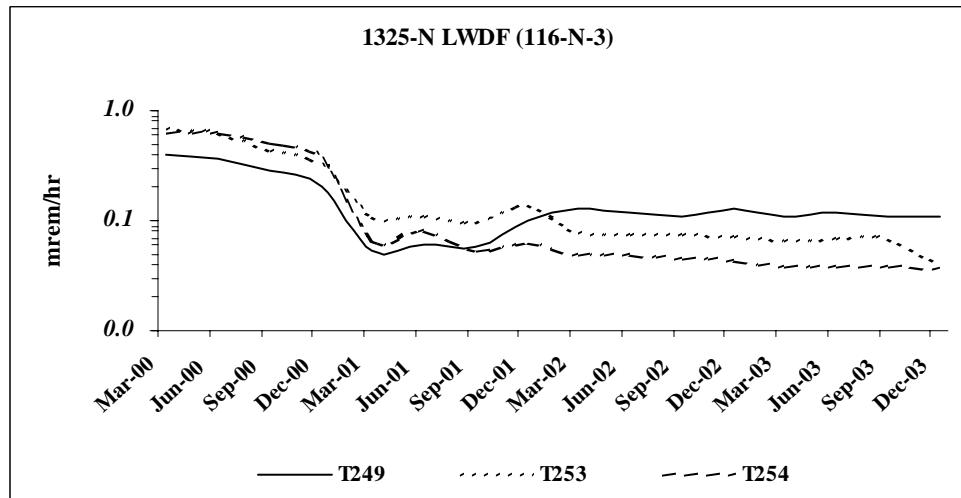


Table 4-2. 2003 Thermoluminescent Dosimeter Results.

Location	Sample Period	EDP Code	mrem/hr	mrem/day	mrem/qtr	mrem/year	Days in Field
100-B/C RA	1st Quarter '03	T200	0.01	0.23	22.0	86	124
		T201	0.01	0.23	21.2	82	124
		T202	0.01	0.23	21.4	83	124
		T203	0.01	0.21	19.8	77	124
	2nd Quarter '03	T200	0.01	0.24	21.6	88	119
		T201			TLD not found		
		T202	0.01	0.23	21.0	85	119
		T203	0.01	0.23	20.4	83	119
	3rd Quarter '03	T200	0.01	0.25	24.4	92	127
		T201	0.01	0.24	23.2	88	126
		T202	0.01	0.24	22.8	86	127
		T203	0.01	0.22	21.6	81	127
	4th Quarter '03	T200			TLD not found		
		T201	0.01	0.23	20.9	85	120
		T202	0.01	0.24	21.3	86	120
		T203	0.01	0.24	21.2	86	120

100-B/C RA, Annual Average \pm 2 Standard Deviation (2SD)

EDP Code	mrem/hr \pm 2SD	mrem/day \pm 2SD	mrem/qtr \pm 2SD	mrem/yr \pm 2SD
T200	0.01 \pm 0.001	0.24 \pm 0.02	22.1 \pm 1.6	88 \pm 6
T201	0.01 \pm 0.001	0.23 \pm 0.02	21.3 \pm 1.5	85 \pm 6
T202	0.01 \pm 0.000	0.23 \pm 0.01	21.3 \pm 0.7	85 \pm 3
T203	0.01 \pm 0.001	0.22 \pm 0.02	20.4 \pm 1.9	82 \pm 7

Table 4-2. 2003 Thermoluminescent Dosimeter Results. (cont)

Location	Sample Period	EDP Code	mrem/hr	mrem/day	mrem/qtr	mrem/year	Days in Field
100-F RA	1st Quarter '03	T210	0.01	0.23	20.8	82	122
		T211	0.01	0.23	20.8	82	122
		T212	0.01	0.23	20.7	82	122
		T213	0.01	0.22	20.2	80	122
		T214	0.01	0.24	22	87	122
	2nd Quarter '03	T210	0.01	0.19	15.4	69	110
		T211	0.01	0.19	15.4	69	110
		T212	0.01	0.19	15.1	68	110
		T213	0.01	0.18	14.8	67	110
		T214	0.01	0.20	15.9	72	110
100-F RA, Annual Average \pm 2 Standard Deviation (2SD)							
EDP Code	mrem/hr \pm 2SD	mrem/day \pm 2SD	mrem/qtr \pm 2SD	mrem/yr \pm 2SD			
T210	0.01 \pm 0.002	0.21 \pm 0.05	19.1 \pm 4.6			76 \pm 18	
T211	0.01 \pm 0.002	0.21 \pm 0.05	19.1 \pm 4.6			76 \pm 18	
T212	0.01 \pm 0.002	0.21 \pm 0.06	18.9 \pm 5.0			76 \pm 20	
T213	0.01 \pm 0.002	0.20 \pm 0.05	18.5 \pm 4.7			74 \pm 19	
T214	0.01 \pm 0.003	0.22 \pm 0.06	20.0 \pm 5.4			80 \pm 22	

Table 4-2. 2003 Thermoluminescent Dosimeter Results. (cont)

Location	Sample Period	EDP Code	mrem/hr	mrem/day	mrem/qtr	mrem/year	Days in Field
100-K Area	1st Quarter '03	T218	0.01	0.20	19.0	74	124
		T219	0.01	0.22	20.6	80	124
		T220	0.01	0.24	22.7	88	124
		T221	0.01	0.28	26	101	124
		T222	0.01	0.36	33.6	131	124
		T223	0.01	0.21	19.7	76	124
		T224	0.01	0.23	21.2	82	124
		T225	0.06	1.44	135.4	526	124
		T226	0.01	0.28	26.3	102	124
		T227	0.02	0.40	37.3	145	124
100-K Area	2nd Quarter '03	T228	0.01	0.23	21.8	85	124
		T218	0.01	0.21	18.8	76	119
		T219	0.01	0.24	21.6	88	119
		T220	0.01	0.27	23.8	97	119
		T221	0.01	0.30	27.0	110	119
		T222	0.06	1.54	138.2	561	119
		T223	0.01	0.26	23.7	96	119
		T224	0.01	0.24	21.7	88	119
		T225	0.09	2.22	199.9	811	119
		T226	0.01	0.31	28.1	114	119
100-K Area	3rd Quarter '03	T227	0.02	0.40	35.6	145	119
		T228	0.01	0.24	21.4	87	119
		T218	0.01	0.21	20.5	77	127
		T219	0.01	0.26	24.8	93	127
		T220	0.01	0.25	24.2	91	127
		T221	0.01	0.30	28.9	109	127
		T222	0.14	3.43	332.3	1250	127
		T223	0.02	0.36	35.1	132	127
		T224	0.01	0.23	21.9	83	127
		T225	0.02	0.48	46.2	174	127
100-K Area	4th Quarter '03	T226	0.01	0.23	22.7	86	127
		T227	0.01	0.35	34.3	129	127
		T228	0.01	0.23	22.0	83	127

Table 4-2. 2003 Thermoluminescent Dosimeter Results. (cont)

Location	Sample Period	EDP Code	mrem/hr	mrem/day	mrem/qtr	mrem/year	Days in Field
100-K Area	4th Quarter '03	T218	0.01	0.21	19.1	77	120
		T219	0.01	0.21	18.9	77	120
		T220	0.01	0.25	22.1	90	120
		T221	0.01	0.27	24.0	98	120
		T222	0.01	0.31	28.0	113	120
		T223	0.01	0.22	20.1	82	120
		T224	0.01	0.23	20.7	84	120
		T225	0.01	0.30	27.4	111	120
		T226	0.01	0.23	21.0	85	120
		T227	0.01	0.36	32.0	130	120
		T228	0.01	0.24	21.4	87	120
100-K Area, Annual Average \pm 2 Standard Deviation (2SD)							
EDP Code			mrem/hr \pm 2SD	mrem/day \pm 2SD	mrem/qtr \pm 2SD		mrem/yr \pm 2SD
T218			0.01 \pm 0.000	0.21 \pm 0.01	19.0 \pm 0.8		76 \pm 3
T219			0.01 \pm 0.002	0.23 \pm 0.04	21.1 \pm 3.8		84 \pm 15
T220			0.01 \pm 0.001	0.25 \pm 0.02	22.8 \pm 1.9		91 \pm 8
T221			0.01 \pm 0.001	0.29 \pm 0.03	26.1 \pm 3.0		104 \pm 12
T222			0.06 \pm 0.122	1.43 \pm 2.92	131 \pm 266		523 \pm 1060
T223			0.01 \pm 0.006	0.27 \pm 0.14	24.2 \pm 12.6		97 \pm 50
T224			0.01 \pm 0.001	0.23 \pm 0.01	21.0 \pm 1.3		84 \pm 5
T225			0.05 \pm 0.075	1.10 \pm 1.79	101 \pm 163		402 \pm 653
T226			0.01 \pm 0.003	0.26 \pm 0.08	24.1 \pm 7.0		97 \pm 28
T227			0.02 \pm 0.002	0.38 \pm 0.05	34.2 \pm 4.5		137 \pm 18
T228			0.01 \pm 0.000	0.23 \pm 0.01	21.3 \pm 0.9		85 \pm 4

Table 4-2. 2003 Thermoluminescent Dosimeter Results. (cont)

Location	Sample Period	EDP Code	mrem/hr	mrem/day	mrem/qtr	mrem/year	Days in Field
CVDF (100-K Area)	1st Quarter '03	T347	0.01	0.22	20.9	81	124
		T348	0.01	0.21	20.2	78	124
		T349	0.01	0.20	18.9	74	124
		T350	0.01	0.20	19.2	75	124
	2nd Quarter '03	T347	0.01	0.23	20.5	83	119
		T348	0.01	0.23	20.8	85	119
		T349	0.01	0.22	19.5	79	119
		T350	0.01	0.22	20.1	81	119
	3rd Quarter '03	T347	0.01	0.23	22.6	85	127
		T348	0.01	0.23	22	83	127
		T349	0.01	0.21	20.3	76	127
		T350	0.01	0.23	22	83	127
	4th Quarter '03	T347	0.01	0.22	19.9	81	120
		T348	0.01	0.22	19.4	79	120
		T349	0.01	0.21	18.8	76	120
		T350	0.01	0.21	18.8	76	120

CVDF, Annual Average ± 2 Standard Deviation (2SD)				
EDP Code	mrem/hr ± 2SD	mrem/day ± 2SD	mrem/qtr ± 2SD	mrem/yr ± 2SD
T347	0.01 ± 0.001	0.23 ± 0.01	20.6 ± 1.1	82 ± 4
T348	0.01 ± 0.001	0.22 ± 0.02	20.3 ± 1.5	81 ± 6
T349	0.01 ± 0.001	0.21 ± 0.01	19.0 ± 1.2	76 ± 5
T350	0.01 ± 0.001	0.22 ± 0.02	19.7 ± 2.0	79 ± 8

Table 4-2. 2003 Thermoluminescent Dosimeter Results. (cont)

Location	Sample Period	EDP Code	mrem/hr	mrem/day	mrem/qtr	mrem/year	Days in Field	
100-KR-1 RA	1st Quarter '03	T364	0.01	0.25	22.9	90	123	
		T365	0.01	0.23	21.1	83	123	
		T366	0.01	0.26	24.2	95	123	
		T367	0.01	0.25	23.6	93	123	
		T368	0.01	0.27	24.7	97	123	
	2nd Quarter '03	T364	0.01	0.25	22.7	92	119	
		T365	0.01	0.22	20.0	81	119	
		T366	0.01	0.28	25.0	101	119	
		T367	0.01	0.27	24.7	100	119	
		T368	0.01	0.28	25.5	104	119	
	3rd Quarter '03	T364	0.01	0.26	25.5	96	127	
		T365	0.01	0.23	22.0	83	127	
		T366	0.01	0.27	26.4	99	127	
		T367	0.01	0.26	25.0	94	127	
		T368	0.01	0.28	26.9	101	127	
	4th Quarter '03	T364	0.01	0.25	22.4	91	120	
		T365	0.01	0.23	20.9	85	120	
		T366	0.01	0.27	24.6	100	120	
		T367	0.01	0.28	24.8	101	120	
		T368	0.01	0.30	27.2	110	120	
100-KR-1, Annual Average \pm 2 Standard Deviation (2SD)								
EDP Code		mrem/hr \pm 2SD	mrem/day \pm 2SD	mrem/qtr \pm 2SD	mrem/yr \pm 2SD			
T364		0.01 \pm 0.001	0.25 \pm 0.01	23.1 \pm 1.4	92 \pm 5			
T365		0.01 \pm 0.000	0.23 \pm 0.01	20.7 \pm 0.7	83 \pm 3			
T366		0.01 \pm 0.001	0.27 \pm 0.02	24.7 \pm 1.4	99 \pm 5			
T367		0.01 \pm 0.001	0.27 \pm 0.02	24.2 \pm 2.1	97 \pm 8			
T368		0.01 \pm 0.001	0.28 \pm 0.03	25.7 \pm 2.8	103 \pm 11			

Table 4-2. 2003 Thermoluminescent Dosimeter Results. (cont)

Location	Sample Period	EDP Code	mrem/hr	mrem/day	mrem/qtr	mrem/year	Days in Field
100-N Area	1st Quarter '03	T229	0.02	0.44	41.0	161	123
		T231	0.02	0.45	41.7	164	123
		T234	0.01	0.30	27.9	110	123
		T235	0.02	0.57	53.4	210	123
		T240	0.02	0.45	42.0	165	123
		T243	0.01	0.22	20.1	79	123
		T245	0.02	0.53	49.3	194	123
		T246	0.01	0.28	25.7	101	123
		T248	0.03	0.79	73.6	289	123
		T249	0.11	2.67	248	973	123
		T250	0.01	0.30	27.9	110	123
		T251	0.01	0.29	27.1	107	123
		T253	0.07	1.60	149.2	586	123
		T254	0.04	0.91	84.6	332	123
	2nd Quarter '03	T229	0.02	0.51	46.8	188	120
		T231	0.02	0.56	51.1	205	120
		T234	0.01	0.31	28.5	114	120
		T235	0.02	0.55	50.5	203	120
		T240	0.02	0.44	39.9	160	120
		T243	0.01	0.22	20.4	82	120
		T245	0.03	0.67	61.0	245	120
		T246	0.01	0.31	28.2	113	120
		T248	0.03	0.80	72.8	292	120
		T249	0.12	2.87	260.9	1047	120
		T250	0.01	0.32	28.9	116	120
		T251	0.01	0.31	28.5	114	120
		T253	0.07	1.66	151.3	607	120
		T254	0.04	0.92	83.6	335	120
	3rd Quarter '03	T229	0.02	0.53	50.4	192	126
		T231	0.02	0.58	55.4	211	126
		T234	0.01	0.34	32.6	124	126
		T235	0.02	0.54	51.4	196	126
		T240	0.02	0.44	42.4	161	126
		T243	0.01	0.21	20.5	78	126
		T245	0.03	0.67	64.8	246	126
		T246	0.01	0.31	30.1	115	126
		T248	0.03	0.77	74.2	282	126
		T249	0.11	2.69	257.9	981	126
		T250	0.01	0.32	30.4	116	126
		T251	0.01	0.33	31.8	121	126
		T253	0.07	1.68	161.5	614	126
		T254	0.04	0.90	86.8	330	126

Table 4-2. 2003 Thermoluminescent Dosimeter Results. (cont)

Location	Sample Period	EDP Code	mrem/hr	mrem/day	mrem/qtr	mrem/year	Days in Field
100-N Area	4th Quarter '03	T229	0.02	0.58	52.4	210	121
		T231	0.02	0.59	53.3	214	121
		T234	0.01	0.30	27.3	110	121
		T235	0.02	0.55	49.7	199	121
		T240	0.02	0.43	38.9	156	121
		T243	0.01	0.23	21.2	85	121
		T245	0.03	0.67	61.4	246	121
		T246	0.01	0.29	26.0	104	121
		T248	0.03	0.73	66.3	266	121
		T249	0.11	2.67	242.8	973	121
		T250	0.01	0.30	27.6	111	121
		T251	0.01	0.32	29.1	117	121
		T253	0.04	0.96	86.9	349	121
		T254	0.04	0.89	80.7	324	121
100-N Area, Annual Average \pm 2 Standard Deviation (2SD)							
EDP Code	mrem/hr \pm 2SD	mrem/day \pm 2SD	mrem/qtr \pm 2SD	mrem/yr \pm 2SD			
T229	0.02 \pm 0.005	0.51 \pm 0.11	46.9 \pm 10.2		187 \pm 41		
T231	0.02 \pm 0.005	0.54 \pm 0.13	49.6 \pm 11.7		198 \pm 47		
T234	0.01 \pm 0.002	0.31 \pm 0.04	28.6 \pm 3.4		114 \pm 13		
T235	0.02 \pm 0.001	0.55 \pm 0.03	50.4 \pm 3.0		202 \pm 12		
T240	0.02 \pm 0.001	0.44 \pm 0.02	40.1 \pm 1.8		161 \pm 7		
T243	0.01 \pm 0.001	0.22 \pm 0.02	20.2 \pm 1.5		81 \pm 6		
T245	0.03 \pm 0.006	0.64 \pm 0.14	58.2 \pm 13.1		233 \pm 52		
T246	0.01 \pm 0.002	0.30 \pm 0.04	27.1 \pm 3.4		108 \pm 13		
T248	0.03 \pm 0.003	0.77 \pm 0.06	70.6 \pm 5.8		282 \pm 23		
T249	0.11 \pm 0.008	2.72 \pm 0.20	248 \pm 17.9		993 \pm 71		
T250	0.01 \pm 0.001	0.31 \pm 0.02	28.3 \pm 1.7		113 \pm 7		
T251	0.01 \pm 0.001	0.31 \pm 0.03	28.7 \pm 3		115 \pm 12		
T253	0.06 \pm 0.029	1.48 \pm 0.70	135 \pm 64		540 \pm 255		
T254	0.04 \pm 0.001	0.90 \pm 0.03	82.6 \pm 2.5		330 \pm 10		

Table 4-2. 2003 Thermoluminescent Dosimeter Results. (cont)

Location	Sample Period	EDP Code	mrem/hr	mrem/day	mrem/qtr	mrem/year	Days in Field
200 East Area	1st Quarter '03	T259	0.01	0.24	21.7	87	121
		T260	0.01	0.23	20.6	83	121
		T261	0.01	0.23	21.3	84	122
		T262	0.01	0.24	21.7	86	122
		T263	0.01	0.22	20.5	81	122
		T264	0.01	0.30	27.5	110	121
		T265	0.01	0.30	26.9	108	121
		T266	0.01	0.23	21.1	85	121
		T267	0.01	0.25	22.6	91	121
		T268	0.01	0.32	29.0	116	121
		T269	0.01	0.24	21.9	88	121
		T270	0.01	0.35	31.8	127	121
		T271	0.01	0.26	23.4	94	121
		T272	0.01	0.29	26.1	105	121
		T273	0.01	0.22	20.2	81	121
		T274	0.01	0.22	20.3	82	121
		T275	0.01	0.24	21.7	87	121
		T276	0.01	0.22	20.0	80	121
		T277	0.01	0.25	22.7	91	121
		T278	0.01	0.24	22.0	88	121
		T279	0.01	0.23	20.6	83	121
		T280	0.01	0.23	21.3	85	121
		T281	0.01	0.23	21.3	85	121
		T282	0.01	0.22	20.2	81	121
		T283	0.01	0.23	20.6	83	121
		T284	0.01	0.29	26.5	106	121
		T285	0.02	0.56	51.8	205	122
		T286	0.02	0.39	35.4	142	121
		T287	0.02	0.38	34.7	138	122
		T288	0.02	0.38	35.2	140	122
		T289	0.02	0.40	36.6	147	121
		T290	0.01	0.30	27.6	110	122
		T291	0.02	0.46	41.9	166	122
		T292	0.06	1.43	131.5	522	122
		T293	0.02	0.36	33.3	132	122
		T294	0.03	0.67	61.3	243	122
		T295	0.02	0.54	49.6	197	122
		T296	0.01	0.25	22.7	91	121
		T297	0.01	0.24	22.0	88	121
		T298	0.01	0.22	20.3	82	121
		T299	0.01	0.25	22.9	92	121
		T300	0.01	0.27	24.1	97	121

Table 4-2. 2003 Thermoluminescent Dosimeter Results. (cont)

Location	Sample Period	EDP Code	mrem/hr	mrem/day	mrem/qtr	mrem/year	Days in Field
200 East Area	2nd Quarter '03	T259	0.01	0.23	22.1	84	125
		T260	0.01	0.22	21.3	81	125
		T261	0.01	0.23	21.8	84	124
		T262	0.01	0.23	21.5	82	124
		T263	0.01	0.23	22.0	84	124
		T264	0.01	0.30	28.8	110	125
		T265	0.01	0.29	27.6	105	125
		T266	0.01	0.24	22.7	87	125
		T267	0.01	0.25	23.6	90	125
		T268	0.01	0.31	29.5	112	125
		T269	0.01	0.24	23.1	88	125
		T270	0.02	0.38	36.1	137	125
		T271	0.01	0.25	24.2	92	125
		T272	0.01	0.28	26.9	102	125
		T273	0.01	0.23	22.0	84	125
		T274	0.01	0.23	21.8	83	125
		T275	0.01	0.22	21.4	81	125
		T276	0.01	0.21	20.1	77	125
		T277	0.01	0.25	23.6	90	125
		T278	0.01	0.22	21.5	82	125
		T279	0.01	0.21	20.4	77	125
		T280	0.01	0.23	22.0	84	125
		T281	0.01	0.23	22.1	84	125
		T282	0.01	0.23	21.6	82	125
		T283	0.01	0.22	21.5	82	125
		T284	0.01	0.28	26.8	102	125
		T285	0.02	0.53	50.1	193	124
		T286	0.02	0.42	40.0	152	125
		T287	0.02	0.44	41.8	161	124
		T288	0.02	0.46	43.9	169	124
		T289	0.02	0.36	34.9	133	125
		T290	0.01	0.30	28.3	109	124
		T291	0.02	0.45	42.8	165	124
		T292	0.07	1.59	150.6	579	124
		T293	0.01	0.35	33.3	128	124
		T294	0.04	0.88	83.2	320	124
		T295	0.01	0.23	21.9	84	124
		T296	0.01	0.25	23.5	90	125
		T297	0.01	0.23	21.9	83	125
		T298	0.01	0.22	21.1	80	125
		T299	0.01	0.24	23.2	88	125
		T300	0.01	0.24	23.4	89	125

Table 4-2. 2003 Thermoluminescent Dosimeter Results. (cont)

Location	Sample Period	EDP Code	mrem/hr	mrem/day	mrem/qtr	mrem/year	Days in Field
200 East Area	3rd Quarter '03	T259	0.01	0.24	21.8	88	121
		T260	0.01	0.23	20.5	82	121
		T261	0.01	0.25	22.9	91	122
		T262	0.01	0.24	21.7	86	122
		T263	0.01	0.24	21.8	87	122
		T264	0.01	0.31	28.7	114	122
		T265	0.01	0.35	31.9	126	122
		T266	0.01	0.24	22.5	89	122
		T267	0.01	0.26	23.5	93	122
		T268	0.01	0.33	30.4	121	122
		T269	0.01	0.27	25.1	100	122
		T270	0.02	0.40	37.1	147	122
		T271	0.01	0.29	26.3	104	122
		T272	0.01	0.30	27.6	109	122
		T273	0.01	0.23	21.5	85	122
		T274	0.01	0.25	22.6	90	122
		T275	0.01	0.25	22.9	91	122
		T276	0.01	0.23	20.9	83	122
		T277	0.01	0.26	24.1	96	122
		T278	0.01	0.23	20.9	83	122
		T279	0.01	0.24	21.7	86	122
		T280	0.01	0.24	22.3	88	122
		T281	0.01	0.26	23.7	94	122
		T282	0.01	0.23	21.0	83	122
		T283	0.01	0.25	23.4	93	122
		T284	0.01	0.30	28.0	111	122
		T285	0.02	0.58	53.6	213	122
		T286	0.02	0.37	33.8	134	122
		T287	0.02	0.59	54.6	217	122
		T288	0.02	0.59	54.2	215	122
		T289	0.02	0.37	34.4	136	122
		T290	0.01	0.33	30.6	121	122
		T291	0.02	0.50	45.9	182	122
		T292	0.06	1.38	126.9	504	122
		T293	0.02	0.51	46.7	185	122
		T294	0.03	0.62	56.7	225	122
		T295	0.01	0.25	23.0	91	122
		T296	0.01	0.26	24.0	95	122
		T297	0.01	0.23	21.5	85	122
		T298	0.01	0.22	19.9	79	122
		T299	0.01	0.26	24.0	95	122
		T300	0.01	0.26	24.2	96	122

Table 4-2. 2003 Thermoluminescent Dosimeter Results. (cont)

Location	Sample Period	EDP Code	mrem/hr	mrem/day	mrem/qtr	mrem/year	Days in Field
200 East Area	4th Quarter '03	T259	0.01	0.24	21.7	87	121
		T260	0.01	0.22	19.8	80	121
		T261	0.01	0.24	22.1	89	121
		T262	0.01	0.22	20.2	81	121
		T263	0.01	0.23	21.0	84	121
		T264	0.01	0.29	26.5	108	120
		T265	0.01	0.30	26.6	108	120
		T266	0.01	0.23	21.1	86	120
		T267	0.01	0.26	23.5	95	120
		T268	0.01	0.32	28.8	117	120
		T269	0.01	0.26	23.9	96	121
		T270	0.02	0.38	34.4	139	120
		T271	0.01	0.25	22.9	93	120
		T272	0.01	0.28	25.4	102	121
		T273	0.01	0.22	19.9	81	120
		T274	0.01	0.23	20.6	84	120
		T275	0.01	0.24	21.5	87	120
		T276	0.01	0.23	20.8	84	120
		T277	0.01	0.24	21.6	88	120
		T278	0.01	0.23	20.7	83	121
		T279	0.01	0.22	20.5	82	121
		T280	0.01	0.23	20.8	83	121
		T281	0.01	0.24	21.9	88	121
		T282	0.01	0.24	22.0	88	121
		T283	0.01	0.26	23.4	94	121
		T284	0.01	0.29	26.2	105	121
		T285	0.02	0.55	49.7	199	121
		T286	0.02	0.38	34.4	138	121
		T287	0.02	0.41	37.6	151	121
		T288	0.03	0.78	71.1	285	121
		T289	0.01	0.33	30.4	122	121
		T290	0.02	0.40	36.8	148	121
		T291	0.02	0.44	40.3	162	121
		T292	0.04	0.87	79.6	319	121
		T293	0.01	0.32	29.5	118	121
		T294	0.02	0.50	45.5	182	121
		T295	0.01	0.22	20.1	81	121
		T296	0.01	0.24	22.1	89	121
		T297	0.01	0.23	20.8	83	121
		T298	0.01	0.22	20.2	82	120
		T299	0.01	0.23	20.3	82	120
		T300	0.01	0.24	22.3	89	121

Table 4-2. 2003 Thermoluminescent Dosimeter Results. (cont)

EDP Code	200 East Area, Annual Average \pm 2 Standard Deviation (2SD)			
	mrem/hr \pm 2SD	mrem/day \pm 2SD	mrem/qtr \pm 2SD	mrem/yr \pm 2SD
T259	0.01 \pm 0.000	0.24 \pm 0.01	21.6 \pm 0.8	86 \pm 3
T260	0.01 \pm 0.000	0.22 \pm 0.01	20.3 \pm 0.7	81 \pm 3
T261	0.01 \pm 0.001	0.24 \pm 0.02	21.7 \pm 1.7	87 \pm 7
T262	0.01 \pm 0.001	0.23 \pm 0.01	21.0 \pm 1.3	84 \pm 5
T263	0.01 \pm 0.001	0.23 \pm 0.01	21.0 \pm 1.1	84 \pm 4
T264	0.01 \pm 0.001	0.30 \pm 0.01	27.6 \pm 1.3	110 \pm 5
T265	0.01 \pm 0.002	0.31 \pm 0.05	27.9 \pm 4.9	112 \pm 20
T266	0.01 \pm 0.000	0.24 \pm 0.01	21.6 \pm 1.0	86 \pm 4
T267	0.01 \pm 0.001	0.25 \pm 0.01	23.0 \pm 1.2	92 \pm 5
T268	0.01 \pm 0.001	0.32 \pm 0.02	29.1 \pm 1.7	116 \pm 7
T269	0.01 \pm 0.001	0.25 \pm 0.03	23.2 \pm 3.0	93 \pm 12
T270	0.02 \pm 0.002	0.38 \pm 0.04	34.4 \pm 4.1	138 \pm 16
T271	0.01 \pm 0.001	0.26 \pm 0.03	23.9 \pm 2.9	96 \pm 12
T272	0.01 \pm 0.001	0.29 \pm 0.02	26.2 \pm 1.7	105 \pm 7
T273	0.01 \pm 0.001	0.23 \pm 0.01	20.7 \pm 1.1	83 \pm 4
T274	0.01 \pm 0.001	0.23 \pm 0.02	21.1 \pm 1.8	84 \pm 7
T275	0.01 \pm 0.001	0.24 \pm 0.02	21.6 \pm 1.9	86 \pm 8
T276	0.01 \pm 0.001	0.22 \pm 0.02	20.2 \pm 1.7	81 \pm 7
T277	0.01 \pm 0.001	0.25 \pm 0.02	22.8 \pm 1.6	91 \pm 6
T278	0.01 \pm 0.001	0.23 \pm 0.02	21.0 \pm 1.5	84 \pm 6
T279	0.01 \pm 0.001	0.22 \pm 0.02	20.5 \pm 1.8	82 \pm 7
T280	0.01 \pm 0.001	0.23 \pm 0.01	21.3 \pm 1.2	85 \pm 5
T281	0.01 \pm 0.001	0.24 \pm 0.02	21.9 \pm 2.2	88 \pm 9
T282	0.01 \pm 0.001	0.23 \pm 0.02	20.9 \pm 1.6	84 \pm 6
T283	0.01 \pm 0.001	0.24 \pm 0.03	21.9 \pm 3.2	88 \pm 13
T284	0.01 \pm 0.001	0.29 \pm 0.02	26.5 \pm 1.9	106 \pm 8
T285	0.02 \pm 0.002	0.55 \pm 0.05	50.6 \pm 4.3	202 \pm 17
T286	0.02 \pm 0.002	0.39 \pm 0.04	35.4 \pm 3.8	142 \pm 15
T287	0.02 \pm 0.008	0.46 \pm 0.19	41.6 \pm 17.4	166 \pm 69
T288	0.02 \pm 0.015	0.55 \pm 0.35	50.4 \pm 31.7	202 \pm 127
T289	0.02 \pm 0.002	0.37 \pm 0.06	33.6 \pm 5.2	134 \pm 21
T290	0.01 \pm 0.004	0.33 \pm 0.10	30.4 \pm 9.0	122 \pm 36
T291	0.02 \pm 0.002	0.46 \pm 0.05	42.2 \pm 4.6	169 \pm 18
T292	0.06 \pm 0.026	1.32 \pm 0.62	121 \pm 56	482 \pm 225
T293	0.02 \pm 0.007	0.39 \pm 0.16	35.2 \pm 15	141 \pm 60
T294	0.03 \pm 0.013	0.67 \pm 0.31	60.8 \pm 28.7	243 \pm 115
T295	0.01 \pm 0.013	0.31 \pm 0.31	28.3 \pm 27.9	113 \pm 112
T296	0.01 \pm 0.001	0.25 \pm 0.02	22.8 \pm 1.4	91 \pm 6
T297	0.01 \pm 0.001	0.23 \pm 0.01	21.2 \pm 1.2	85 \pm 5
T298	0.01 \pm 0.000	0.22 \pm 0.01	20.2 \pm 0.6	81 \pm 2
T299	0.01 \pm 0.001	0.25 \pm 0.03	22.4 \pm 2.8	89 \pm 11
T300	0.01 \pm 0.001	0.25 \pm 0.02	23.2 \pm 2.1	93 \pm 8

Table 4-2. 2003 Thermoluminescent Dosimeter Results. (cont)

Location	Sample Period	EDP Code	mrem/hr	mrem/day	mrem/qtr	mrem/year	Days in Field
200 West Area	1st Quarter '03	T302	0.01	0.25	22.9	92	121
		T303	0.01	0.31	28.6	115	121
		T304	0.02	0.36	33.2	133	121
		T305	0.01	0.24	22.1	89	121
		T306	0.01	0.30	27.2	109	121
		T307	0.01	0.30	27.0	109	121
		T308	0.01	0.26	23.9	96	121
		T309	0.01	0.24	21.4	86	121
		T310	0.01	0.29	26.5	107	121
		T311	0.01	0.26	23.6	95	121
		T312	0.02	0.39	35.9	144	121
		T313	0.02	0.56	50.9	204	121
		T314	0.01	0.24	21.6	87	121
		T315	0.01	0.24	21.9	88	121
		T316	0.01	0.26	23.8	95	121
		T317	0.01	0.25	22.7	91	121
		T318	0.01	0.24	21.5	86	121
		T319	0.01	0.24	21.8	88	121
		T320	0.01	0.29	26.4	106	121
		T321	0.01	0.29	26.1	105	121
		T322	0.01	0.22	19.6	79	121
		T323	0.01	0.24	22.2	89	121
		T324	0.02	0.44	40.4	162	121
		T325	0.01	0.33	30.4	122	121
2nd Quarter '03		T302	0.01	0.25	23.6	90	125
		T303	0.01	0.30	29.0	110	125
		T304	0.01	0.35	34.0	129	125
		T305	0.01	0.26	25.4	97	125
		T306	0.01	0.27	25.9	98	125
		T307	0.01	0.28	26.5	101	125
		T308	0.01	0.26	24.8	94	125
		T309	0.01	0.23	22.4	85	125
		T310	0.01	0.29	27.7	105	125
		T311	0.01	0.25	23.6	90	125
		T312	0.02	0.50	48.4	184	125
		T313	0.02	0.50	48.5	184	125
		T314	0.01	0.25	23.8	91	125
		T315	0.01	0.24	22.7	86	125
		T316	0.01	0.23	22.5	85	125
		T317	0.01	0.25	23.9	91	125
		T318	0.01	0.23	21.9	83	125
		T319	0.01	0.23	22.2	84	125
		T320	0.01	0.28	26.6	101	125
		T321	0.01	0.26	25.0	95	125
		T322	0.01	0.21	20.0	76	125
		T323	0.01	0.23	22.0	84	125
		T324	0.01	0.27	26.1	99	125
		T325	0.01	0.34	32.2	122	125

Table 4-2. 2003 Thermoluminescent Dosimeter Results. (cont)

Location	Sample Period	EDP Code	mrem/hr	mrem/day	mrem/qtr	mrem/year	Days in Field
200 West Area	3rd Quarter '03	T302	0.01	0.26	23.5	94	121
		T303	0.01	0.34	31.4	126	121
		T304	0.02	0.36	33.0	132	121
		T305	0.01	0.25	23.1	93	121
		T306	0.01	0.31	28.4	114	121
		T307	0.01	0.31	28.3	113	121
		T308	0.01	0.29	26.5	106	121
		T309	0.01	0.25	22.7	91	121
		T310	0.01	0.31	28.1	113	121
		T311	0.01	0.25	22.9	92	121
		T312	0.02	0.52	47.4	190	121
		T313	0.02	0.51	46.3	186	121
		T314	0.01	0.25	23.0	92	121
		T315	0.01	0.26	24.1	97	121
		T316	0.01	0.26	23.3	93	121
		T317	0.01	0.26	23.3	93	121
		T318	0.01	0.23	21.3	86	121
		T319	0.01	0.26	23.4	94	121
		T320	0.01	0.31	28.5	114	121
		T321	0.01	0.31	28.2	113	121
		T322	0.01	0.23	20.9	84	121
		T323	0.01	0.25	23.1	93	121
		T324	0.01	0.33	29.9	120	121
		T325	0.02	0.37	33.7	135	121
	4th Quarter '03	T302	0.01	0.25	23.0	92	121
		T303	0.01	0.32	29.0	117	121
		T304	0.01	0.34	31.3	126	121
		T305	0.01	0.23	20.6	83	121
		T306	0.01	0.30	27.4	110	121
		T307	0.01	0.29	26.0	104	121
		T308	0.01	0.28	25.5	102	121
		T309	0.01	0.23	20.9	84	121
		T310	0.01	0.29	26.3	105	121
		T311	0.01	0.24	22.1	89	121
		T312	0.02	0.42	38.3	153	121
		T313	0.02	0.50	45.1	181	121
		T314	0.01	0.24	21.7	87	121
		T315	0.01	0.25	22.9	92	121
		T316	0.01	0.24	21.5	86	121
		T317	0.01	0.25	22.7	91	121
		T318	0.01	0.22	19.9	80	121
		T319	0.01	0.23	20.6	82	121
		T320	0.01	0.30	27.4	110	121
		T321	0.01	0.29	26.0	104	121
		T322	0.01	0.23	20.6	83	121
		T323	0.01	0.28	25.7	103	121
		T324	0.01	0.29	26.3	106	121
		T325	0.01	0.33	30.4	122	121

Table 4-2. 2003 Thermoluminescent Dosimeter Results. (cont)

EDP Code	200 West Area, Annual Average \pm 2 Standard Deviation (2SD)			
	mrem/hr \pm 2SD	mrem/day \pm 2SD	mrem/qtr \pm 2SD	mrem/yr \pm 2SD
T302	0.01 \pm 0.000	0.25 \pm 0.01	23.0 \pm 1.0	92 \pm 4
T303	0.01 \pm 0.002	0.32 \pm 0.04	29.2 \pm 3.3	117 \pm 13
T304	0.01 \pm 0.001	0.36 \pm 0.02	32.5 \pm 1.7	130 \pm 7
T305	0.01 \pm 0.001	0.25 \pm 0.03	22.5 \pm 3.0	90 \pm 12
T306	0.01 \pm 0.002	0.30 \pm 0.04	26.9 \pm 3.3	108 \pm 13
T307	0.01 \pm 0.001	0.29 \pm 0.03	26.7 \pm 2.7	107 \pm 11
T308	0.01 \pm 0.001	0.27 \pm 0.03	24.9 \pm 2.8	99 \pm 11
T309	0.01 \pm 0.001	0.24 \pm 0.02	21.6 \pm 1.6	86 \pm 6
T310	0.01 \pm 0.001	0.29 \pm 0.02	26.9 \pm 1.8	107 \pm 7
T311	0.01 \pm 0.001	0.25 \pm 0.01	22.8 \pm 1.3	91 \pm 5
T312	0.02 \pm 0.005	0.46 \pm 0.12	42.0 \pm 11.3	168 \pm 45
T313	0.02 \pm 0.002	0.52 \pm 0.06	47.2 \pm 5.2	189 \pm 21
T314	0.01 \pm 0.001	0.24 \pm 0.01	22.3 \pm 1.4	89 \pm 5
T315	0.01 \pm 0.001	0.25 \pm 0.03	22.7 \pm 2.3	91 \pm 9
T316	0.01 \pm 0.001	0.25 \pm 0.03	22.5 \pm 2.5	90 \pm 10
T317	0.01 \pm 0.000	0.25 \pm 0.01	22.9 \pm 0.6	92 \pm 2
T318	0.01 \pm 0.001	0.23 \pm 0.02	20.9 \pm 1.5	84 \pm 6
T319	0.01 \pm 0.001	0.24 \pm 0.03	21.7 \pm 2.5	87 \pm 10
T320	0.01 \pm 0.001	0.30 \pm 0.03	26.9 \pm 2.8	108 \pm 11
T321	0.01 \pm 0.002	0.29 \pm 0.04	26.0 \pm 3.6	104 \pm 14
T322	0.01 \pm 0.001	0.22 \pm 0.02	20.1 \pm 1.9	80 \pm 7
T323	0.01 \pm 0.002	0.25 \pm 0.04	23.0 \pm 4.1	92 \pm 16
T324	0.01 \pm 0.006	0.33 \pm 0.15	30.3 \pm 14.1	121 \pm 56
T325	0.01 \pm 0.002	0.34 \pm 0.04	31.3 \pm 3.3	125 \pm 13

Table 4-2. 2003 Thermoluminescent Dosimeter Results. (cont)

Location	Sample Period	EDP Code	mrem/hr	mrem/day	mrem/qtr	mrem/year	Days in Field
212-R (200 North)	1st Quarter '03	T301	0.32	7.79	708.7	2843	121
	2nd Quarter '03	T301	0.32	7.59	727.9	2769	125
	3rd Quarter '03	T301	0.39	9.29	845.8	3393	121
	4th Quarter '03	T301	0.36	8.57	788.8	3128	122
212-R, Annual Average \pm 2 Standard Deviation (2SD)							
EDP Code	mrem/hr \pm 2SD	mrem/day \pm 2SD	mrem/qtr \pm 2SD	mrem/yr \pm 2SD			
T301	0.35 \pm 0.065	8.3 \pm 1.6	757 \pm 143	3030 \pm 571			

Table 4-2. 2003 Thermoluminescent Dosimeter Results. (cont)

Location	Sample Period	EDP Code	mrem/hr	mrem/day	mrem/qtr	mrem/year	Days in Field	
300 Area	1st Quarter '03	T332	0.01	0.24	22.3	86	125	
		T333	0.01	0.24	22.5	87	125	
		T334	0.01	0.23	21.7	83	125	
		T335	0.01	0.26	24.7	95	125	
		T336	0.01	0.22	21.0	81	125	
		T337	0.01	0.24	22.7	87	125	
		T338	0.01	0.31	29.2	112	125	
		T339	0.01	0.28	26.9	103	125	
		T332	0.01	0.22	18.8	81	114	
	2nd Quarter '03	T333	0.01	0.23	20.0	86	114	
		T334	0.01	0.22	18.8	81	114	
		T335	0.01	0.25	21.3	92	114	
		T336	0.01	0.22	18.7	81	114	
		T337	0.01	0.25	21.1	91	114	
		T338	0.01	0.30	25.7	111	114	
		T339	0.01	0.32	27.2	117	114	
		T332	0.01	0.22	22.0	81	130	
		T333	0.01	0.25	25.0	91	130	
3rd Quarter '03		T334	0.01	0.24	23.8	87	130	
		T335	0.01	0.25	24.6	90	130	
		T336	0.01	0.22	22.3	82	130	
		T337	0.01	0.24	23.5	86	130	
		T338	0.01	0.30	30.3	111	130	
		T339	0.01	0.32	32.4	118	130	
		T332	0.01	0.22	20.2	82	120	
		T333	0.01	0.24	21.6	87	120	
		T334	0.01	0.23	20.3	82	120	
4th Quarter '03		T335	0.01	0.25	22.5	91	120	
		T336	0.01	0.24	21.4	87	120	
		T337	0.01	0.24	21.6	88	120	
		T338	0.01	0.31	27.9	113	120	
		T339	0.01	0.28	25.4	103	120	

300 Area, Annual Average \pm 2 Standard Deviation (2SD)

EDP Code	mrem/hr \pm 2SD	mrem/day \pm 2SD	mrem/qtr \pm 2SD	mrem/yr \pm 2SD
T332	0.01 \pm 0.001	0.23 \pm 0.01	20.6 \pm 1.2	82 \pm 5
T333	0.01 \pm 0.001	0.24 \pm 0.01	22.0 \pm 1.2	88 \pm 5
T334	0.01 \pm 0.001	0.23 \pm 0.01	20.9 \pm 1.3	83 \pm 5
T335	0.01 \pm 0.001	0.25 \pm 0.01	22.9 \pm 1.1	92 \pm 4
T336	0.01 \pm 0.001	0.23 \pm 0.02	20.6 \pm 1.5	82 \pm 6
T337	0.01 \pm 0.001	0.24 \pm 0.01	22.0 \pm 1.0	88 \pm 4
T338	0.01 \pm 0.000	0.31 \pm 0.01	27.9 \pm 0.6	112 \pm 2
T339	0.01 \pm 0.002	0.30 \pm 0.05	27.6 \pm 4.2	110 \pm 17

Table 4-2. 2003 Thermoluminescent Dosimeter Results. (cont)

Location	Sample Period	EDP Code	mrem/hr	mrem/day	mrem/qtr	mrem/year	Days in Field
300 TEDF	1st Quarter '03	T326	0.01	0.23	21.4	82	125
		T327	0.01	0.23	21.9	84	125
		T328	0.01	0.24	23.0	88	125
		T329	0.01	0.23	21.9	84	125
		T330	0.01	0.21	20.2	78	125
		T331	0.01	0.23	22.1	85	125
	2nd Quarter '03	T326	0.01	0.24	20.1	87	114
		T327	0.01	0.23	19.2	83	114
		T328	0.01	0.23	19.8	85	114
		T329	0.01	0.23	19.7	85	114
		T330	0.01	0.24	20.1	86	114
		T331	0.01	0.23	19.9	86	114
	3rd Quarter '03	T326	0.01	0.23	23.4	85	130
		T327	0.01	0.23	23.4	85	130
		T328	0.01	0.27	26.9	98	130
		T329	0.01	0.23	22.9	84	130
		T330	0.01	0.24	23.9	87	130
		T331	0.01	0.23	23.4	85	130
	4th Quarter '03	T326	0.01	0.23	20.7	84	120
		T327	0.01	0.23	20.7	84	120
		T328	0.01	0.24	21.4	87	120
		T329	0.01	0.23	20.9	85	120
		T330	0.01	0.22	20.1	81	120
		T331	0.01	0.25	22.8	93	120

300 TEDF, Annual Average \pm 2 Standard Deviation (2SD)

EDP Code	mrem/hr \pm 2SD	mrem/day \pm 2SD	mrem/qtr \pm 2SD	mrem/yr \pm 2SD
T326	0.01 \pm 0.000	0.23 \pm 0.01	21.1 \pm 0.9	84 \pm 4
T327	0.01 \pm 0.000	0.23 \pm 0.01	21.0 \pm 0.6	84 \pm 2
T328	0.01 \pm 0.001	0.25 \pm 0.03	22.5 \pm 2.9	90 \pm 12
T329	0.01 \pm 0.000	0.23 \pm 0.00	21.1 \pm 0.3	84 \pm 1
T330	0.01 \pm 0.001	0.23 \pm 0.02	20.8 \pm 2.3	83 \pm 9
T331	0.01 \pm 0.001	0.24 \pm 0.02	21.8 \pm 1.8	87 \pm 7

Table 4-2. 2003 Thermoluminescent Dosimeter Results. (cont)

Location	Sample Period	EDP Code	mrem/hr	mrem/day	mrem/qtr	mrem/year	Days in Field
400 Area	1st Quarter '03	T340	0.01	0.22	21.3	82	125
		T341	0.01	0.21	20.1	77	125
		T342	0.01	0.22	20.7	80	125
		T343	0.01	0.22	20.8	80	125
		T344	0.01	0.22	21.2	82	125
		T345	0.01	0.22	21.0	81	125
		T346	0.01	0.21	20.2	78	125
	2nd Quarter '03	T340	0.01	0.22	19.0	82	114
		T341	0.01	0.22	18.7	80	114
		T342	0.01	0.23	19.2	83	114
		T343	0.01	0.22	18.5	79	114
		T344	0.01	0.22	18.6	80	114
		T345	0.01	0.21	17.8	77	114
		T346	0.01	0.21	18.2	78	114
	3rd Quarter '03	T340	0.01	0.24	23.7	87	130
		T341	0.01	0.21	21.4	78	130
		T342	0.01	0.24	23.5	86	130
		T343	0.01	0.22	21.8	80	130
		T344	0.01	0.23	22.6	83	130
		T345	0.01	0.22	22.0	80	130
		T346	0.01	0.22	22.1	81	130
	4th Quarter '03	T340	0.01	0.24	21.9	89	120
		T341	0.01	0.21	19.2	78	120
		T342	0.01	0.23	21.1	86	120
		T343	0.01	0.22	19.9	81	120
		T344	0.01	0.22	20.0	81	120
		T345	0.01	0.22	19.9	81	120
		T346	0.01	0.21	19.1	78	120

400 Area, Annual Average \pm 2 Standard Deviation (2SD)

EDP Code	mrem/hr \pm 2SD	mrem/day \pm 2SD	mrem/qtr \pm 2SD	mrem/yr \pm 2SD
T340	0.01 \pm 0.001	0.23 \pm 0.02	21.2 \pm 1.7	85 \pm 7
T341	0.01 \pm 0.000	0.21 \pm 0.01	19.6 \pm 0.7	78 \pm 3
T342	0.01 \pm 0.001	0.23 \pm 0.02	20.9 \pm 1.5	83 \pm 6
T343	0.01 \pm 0.000	0.22 \pm 0.00	20.0 \pm 0.3	80 \pm 1
T344	0.01 \pm 0.000	0.22 \pm 0.01	20.3 \pm 0.5	81 \pm 2
T345	0.01 \pm 0.001	0.22 \pm 0.01	19.9 \pm 1.0	80 \pm 4
T346	0.01 \pm 0.000	0.22 \pm 0.01	19.6 \pm 0.8	78 \pm 3

Table 4-2. 2003 Thermoluminescent Dosimeter Results. (cont)

Location	Sample Period	EDP Code	mrem/hr	mrem/day	mrem/qtr	mrem/year	Days in Field
ERDF	1st Quarter '03	T351	0.01	0.24	18.8	89	107
		T352	0.01	0.29	22.6	107	107
		T353	0.01	0.28	21.3	101	107
	2nd Quarter '03	T351	0.01	0.24	23.1	89	124
		T352	0.01	0.27	25.2	97	124
		T353	0.01	0.26	24.8	95	124
	3rd Quarter '03	T351	0.01	0.23	20.6	85	118
		T352	0.01	0.27	23.5	98	118
		T353	0.01	0.26	23.2	96	118
	4th Quarter '03	T351			TLD not submitted for analysis		
		T352	0.01	0.26	23.1	96	118
		T353	0.01	0.25	21.8	90	118
ERDF, Annual Average \pm 2 Standard Deviation (2SD)							
EDP Code		mrem/hr \pm 2SD		mrem/day \pm 2SD		mrem/qtr \pm 2SD	mrem/yr \pm 2SD
T351		0.01 \pm 0.001		0.24 \pm 0.01		21.9 \pm 1.1	88 \pm 4
T352		0.01 \pm 0.001		0.27 \pm 0.03		24.8 \pm 2.7	99 \pm 11
T353		0.01 \pm 0.001		0.26 \pm 0.02		23.9 \pm 2.2	96 \pm 9