

Table B-1: Shadow Flicker Modeling Results at Sensitive Receptors in Roberts County

Modeling ID	Coordinates NAD83 UTM Zone 14N (meters)		Participation Status	Expected Shadow Flicker Hours per Year (HH:MM/year)		
	X (Easting)	Y (Northing)		August 2019 Report (Layout 5160 DakotaIIIIFlickerReport_190812L)	January 2020 Report (Layout 5160.1 DakotaIIIIFlickerReport_191101L)	Delta (HH:MM/year)
0	642512.13	5017700.01	Non-Participating	1:24	1:36	0:12
669	654426.49	5017892.36	Non-Participating	0:00	0:00	0:00
670	654209.18	5017869.34	Non-Participating	0:00	0:00	0:00
956	654009.01	5018003.84	Non-Participating	0:00	0:00	0:00
957	653947.62	5018047.23	Non-Participating	0:00	0:00	0:00
958	653727.49	5018884.37	Non-Participating	0:00	0:00	0:00
959	653644.94	5018764.78	Non-Participating	0:00	0:00	0:00
960	653647.06	5018716.10	Non-Participating	0:00	0:00	0:00
961	653686.22	5018751.02	Non-Participating	0:00	0:00	0:00
962	653727.49	5018733.03	Non-Participating	0:00	0:00	0:00
963	653732.78	5018803.94	Non-Participating	0:00	0:00	0:00
964	653775.12	5018820.87	Non-Participating	0:00	0:00	0:00
965	653779.35	5018775.37	Non-Participating	0:00	0:00	0:00
966	653796.28	5018756.32	Non-Participating	0:00	0:00	0:00
967	653812.16	5018729.86	Non-Participating	0:00	0:00	0:00
968	653789.93	5018684.35	Non-Participating	0:00	0:00	0:00
969	653801.57	5018650.48	Non-Participating	0:00	0:00	0:00
970	653830.15	5018654.72	Non-Participating	0:00	0:00	0:00
971	653872.48	5018648.37	Non-Participating	0:00	0:00	0:00
972	653824.86	5018766.90	Non-Participating	0:00	0:00	0:00
973	653821.68	5018837.81	Non-Participating	0:00	0:00	0:00
974	653773.00	5018844.16	Non-Participating	0:00	0:00	0:00
975	653729.61	5018837.81	Non-Participating	0:00	0:00	0:00
976	654082.03	5018861.09	Non-Participating	0:00	0:00	0:00
977	654097.91	5018818.76	Non-Participating	0:00	0:00	0:00
978	654051.34	5018819.82	Non-Participating	0:00	0:00	0:00
979	654060.87	5018781.72	Non-Participating	0:00	0:00	0:00
980	654100.02	5018783.83	Non-Participating	0:00	0:00	0:00
981	654098.97	5018738.32	Non-Participating	0:00	0:00	0:00
982	654058.75	5018740.44	Non-Participating	0:00	0:00	0:00
983	654134.95	5018784.89	Non-Participating	0:00	0:00	0:00
984	654136.01	5018744.67	Non-Participating	0:00	0:00	0:00
985	654104.26	5018656.83	Non-Participating	0:00	0:00	0:00
986	654054.52	5018682.23	Non-Participating	0:00	0:00	0:00
987	654011.12	5018692.82	Non-Participating	0:00	0:00	0:00
988	654193.16	5018864.27	Non-Participating	0:00	0:00	0:00
989	654247.13	5018830.40	Non-Participating	0:00	0:00	0:00
990	654284.17	5018758.43	Non-Participating	0:00	0:00	0:00
991	654237.61	5018695.99	Non-Participating	0:00	0:00	0:00
992	654160.35	5018557.35	Non-Participating	0:00	0:00	0:00
993	654118.02	5018592.27	Non-Participating	0:00	0:00	0:00
994	654088.38	5018585.92	Non-Participating	0:00	0:00	0:00
995	654096.85	5018546.77	Non-Participating	0:00	0:00	0:00
996	654075.68	5018498.08	Non-Participating	0:00	0:00	0:00
997	654075.68	5018466.33	Non-Participating	0:00	0:00	0:00
998	654167.76	5018458.92	Non-Participating	0:00	0:00	0:00
999	654156.12	5018498.08	Non-Participating	0:00	0:00	0:00
1000	654013.24	5018454.69	Non-Participating	0:00	0:00	0:00
1001	653986.78	5018446.22	Non-Participating	0:00	0:00	0:00
1002	653980.43	5018480.09	Non-Participating	0:00	0:00	0:00
1003	653975.14	5018568.99	Non-Participating	0:00	0:00	0:00
1004	653933.87	5018491.73	Non-Participating	0:00	0:00	0:00
1005	653876.72	5018492.79	Non-Participating	0:00	0:00	0:00
1006	653880.95	5018543.59	Non-Participating	0:00	0:00	0:00
1007	653833.32	5018607.09	Non-Participating	0:00	0:00	0:00
1008	653789.93	5018604.97	Non-Participating	0:00	0:00	0:00
1009	653789.93	5018572.17	Non-Participating	0:00	0:00	0:00
1010	653785.70	5018529.83	Non-Participating	0:00	0:00	0:00
1011	653792.05	5018446.22	Non-Participating	0:00	0:00	0:00
1012	653793.11	5018411.30	Non-Participating	0:00	0:00	0:00
1013	653755.01	5018415.53	Non-Participating	0:00	0:00	0:00
1014	653746.54	5018463.16	Non-Participating	0:00	0:00	0:00
1015	653702.09	5018464.22	Non-Participating	0:00	0:00	0:00
1016	653707.38	5018314.99	Non-Participating	0:00	0:00	0:00
1017	653758.18	5018316.05	Non-Participating	0:00	0:00	0:00
1018	653751.83	5018374.26	Non-Participating	0:00	0:00	0:00

Table B-1: Shadow Flicker Modeling Results at Sensitive Receptors in Roberts County

Modeling ID	Coordinates NAD83 UTM Zone 14N (meters)		Participation Status	Expected Shadow Flicker Hours per Year (HH:MM/year)		
	X (Easting)	Y (Northing)		August 2019 Report (Layout 5160 DakotaIII FlickerReport_190812L)	January 2020 Report (Layout 5160.1 DakotaIII FlickerReport_191101L)	Delta (HH:MM/year)
1019	653660.82	5018297.00	Non-Participating	0:00	0:00	0:00
1020	653758.18	5018239.85	Non-Participating	0:00	0:00	0:00
1021	653751.83	5018171.06	Non-Participating	0:00	0:00	0:00
1022	653750.77	5018124.49	Non-Participating	0:00	0:00	0:00
1023	653942.33	5017978.44	Non-Participating	0:00	0:00	0:00
1024	652007.10	5018428.62	Non-Participating	21:08	24:22	3:14
1025	651904.31	5018493.71	Participating	29:14	34:44	5:30
1031	645549.34	5018139.28	Non-Participating	9:42	11:09	1:27
1036	645562.04	5018101.98	Non-Participating	11:06	12:26	1:20
1037	645441.78	5018144.84	Participating	7:16	8:48	1:32
1049	643942.45	5018308.02	Participating	26:29	31:47	5:18
1050	643141.20	5019297.31	Non-Participating	19:16	23:00	3:44
1060	646631.14	5018927.53	Non-Participating	14:14	16:00	1:46
1061	647630.61	5019088.92	Participating	10:15	11:54	1:39
1067	648739.88	5019368.72	Participating	17:25	21:42	4:17
1068	649770.43	5019268.18	Non-Participating	18:27	21:24	2:57
1071	644598.95	5020889.63	Participating	23:33	25:48	2:15
1072	645356.99	5021362.71	Non-Participating	15:19	7:33	(-) 7:46
1079	644610.06	5020920.59	Participating	18:42	20:29	1:47
1081	645450.73	5022016.36	Non-Participating	0:00	0:00	0:00
1086	650430.29	5020350.23	Participating	1:32	1:42	0:10
1087	651845.75	5019968.54	Non-Participating	6:16	6:53	0:37
1093	653454.27	5019124.78	Non-Participating	0:00	0:00	0:00
1095	653878.92	5019204.82	Non-Participating	0:00	0:00	0:00
1096	653892.81	5019481.31	Non-Participating	0:00	0:00	0:00
1097	654050.90	5019609.63	Non-Participating	0:00	0:00	0:00
1098	654293.66	5019607.65	Non-Participating	0:00	0:00	0:00
1162	652138.05	5021042.12	Non-Participating	0:00	0:00	0:00
1169	651774.25	5022027.04	Non-Participating	0:00	0:00	0:00
1175	650244.29	5022880.98	Non-Participating	0:00	0:00	0:00
1180	648470.34	5022730.04	Non-Participating	0:00	0:00	0:00
1181	648648.67	5021826.75	Non-Participating	0:00	0:00	0:00
1185	648673.54	5021782.83	Non-Participating	0:00	0:00	0:00
1220	653401.72	5022226.38	Non-Participating	0:00	0:00	0:00
2464	653885.69	5018617.60	Non-Participating	0:00	0:00	0:00
2569	643740.41	5020526.47	Participating	16:03	19:16	3:13
3369	653357.06	5019308.47	Non-Participating	0:00	0:00	0:00
3370	653386.66	5019309.46	Non-Participating	0:00	0:00	0:00
3371	653412.09	5019310.84	Non-Participating	0:00	0:00	0:00
3372	653442.11	5019311.42	Non-Participating	0:00	0:00	0:00
3373	653467.54	5019311.97	Non-Participating	0:00	0:00	0:00
3374	653494.22	5019312.94	Non-Participating	0:00	0:00	0:00
3769	653603.40	5018596.29	Non-Participating	0:00	0:00	0:00
3770	653604.82	5018578.43	Non-Participating	0:00	0:00	0:00
3771	653605.25	5018559.25	Non-Participating	0:00	0:00	0:00
3772	653606.32	5018544.38	Non-Participating	0:00	0:00	0:00
3773	653606.78	5018519.91	Non-Participating	0:00	0:00	0:00
3774	653738.12	5018572.85	Non-Participating	0:00	0:00	0:00
3775	653833.37	5018573.34	Non-Participating	0:00	0:00	0:00
3776	653746.30	5018527.91	Non-Participating	0:00	0:00	0:00
3777	653783.39	5018643.52	Non-Participating	0:00	0:00	0:00
3778	653830.24	5018539.59	Non-Participating	0:00	0:00	0:00
3779	653824.23	5018486.98	Non-Participating	0:00	0:00	0:00
3780	653711.74	5018495.32	Non-Participating	0:00	0:00	0:00
3781	653836.59	5018462.57	Non-Participating	0:00	0:00	0:00
3782	653835.10	5018431.80	Non-Participating	0:00	0:00	0:00
3783	653698.14	5018375.86	Non-Participating	0:00	0:00	0:00
3784	653712.83	5018413.97	Non-Participating	0:00	0:00	0:00
3785	653654.57	5018423.59	Non-Participating	0:00	0:00	0:00
3786	653610.61	5018419.39	Non-Participating	0:00	0:00	0:00
3787	653608.95	5018483.21	Non-Participating	0:00	0:00	0:00
3788	653609.72	5018462.71	Non-Participating	0:00	0:00	0:00
3789	653612.12	5018445.52	Non-Participating	0:00	0:00	0:00
3790	653731.26	5018526.38	Non-Participating	0:00	0:00	0:00
3791	653653.83	5018482.45	Non-Participating	0:00	0:00	0:00
3792	653684.55	5018762.40	Non-Participating	0:00	0:00	0:00

Table B-1: Shadow Flicker Modeling Results at Sensitive Receptors in Roberts County

Modeling ID	Coordinates NAD83 UTM Zone 14N (meters)		Participation Status	Expected Shadow Flicker Hours per Year (HH:MM/year)		
	X (Easting)	Y (Northing)		August 2019 Report (Layout 5160 DakotaIIIIFlickerReport_190812L)	January 2020 Report (Layout 5160.1 DakotaIIIIFlickerReport_191101L)	Delta (HH:MM/year)
3793	653822.23	5018807.10	Non-Participating	0:00	0:00	0:00
3794	653619.64	5018711.28	Non-Participating	0:00	0:00	0:00
3795	653796.87	5018723.96	Non-Participating	0:00	0:00	0:00
3796	653153.96	5019379.44	Non-Participating	0:00	0:00	0:00
3798	647460.57	5018633.20	Non-Participating	3:23	3:51	0:28

Table B-2: Shadow Flicker Modeling Results at Sensitive Receptors in Grant County

Modeling ID	Coordinates NAD83 UTM Zone 14N (meters)		Participation Status	Expected Shadow Flicker Hours per Year (HH:MM/year)		
	X (Easting)	Y (Northing)		August 2019 Report (Layout 5160 DakotaIII\FlickerReport_190812L)	January 2020 Report (Layout 5160.1 DakotaIII\FlickerReport_191101L)	Delta (HH:MM/year)
671	654440.66	5017764.63	Non-Participating	0:00	0:00	0:00
689	647139.01	5014024.33	Participating	36:02	42:30	6:28
720	646111.96	5014301.87	Participating	24:15	28:02	3:47
721	650227.89	5014434.71	Non-Participating	4:48	5:31	0:43
725	650180.49	5014452.90	Non-Participating	5:41	6:31	0:50
727	648895.05	5014567.56	Participating	20:12	22:39	2:27
728	648857.57	5014749.46	Participating	12:59	14:56	1:57
738	647097.54	5014730.16	Participating	23:15	26:33	3:18
744	645511.35	5015039.18	Participating	6:32	5:48	(-) 0:44
745	645500.11	5015039.51	Participating	8:08	7:28	(-) 0:40
746	645488.20	5015041.82	Participating	10:08	9:29	(-) 0:39
747	645475.97	5015042.48	Participating	11:35	11:04	(-) 0:31
756	644633.40	5014490.63	Participating	3:47	4:31	0:44
767	644488.94	5014596.46	Participating	3:28	4:04	0:36
769	647399.27	5015986.51	Participating	20:51	12:31	(-) 8:20
776	651813.15	5014591.35	Non-Participating	0:55	1:05	0:10
777	651778.23	5014579.18	Non-Participating	1:02	1:10	0:08
778	651881.15	5014455.09	Non-Participating	0:48	0:56	0:08
801	643999.49	5016084.40	Non-Participating	0:00	0:00	0:00
802	643977.66	5016340.39	Non-Participating	0:00	0:00	0:00
803	646221.99	5016509.06	Participating	4:38	5:22	0:44
816	647225.43	5016639.23	Participating	12:05	14:26	2:21
839	647898.23	5017253.63	Participating	6:53	7:53	1:00
846	652438.65	5016205.55	Non-Participating	0:00	0:00	0:00
1976	647303.97	5007251.04	Non-Participating	0:00	0:00	0:00
1985	648480.56	5007489.68	Non-Participating	0:00	0:00	0:00
2193	652045.23	5009239.11	Non-Participating	0:00	0:00	0:00
2195	650621.29	5009376.36	Non-Participating	0:00	0:00	0:00
2205	650503.26	5009033.74	Non-Participating	0:00	0:00	0:00
2212	650493.66	5008776.86	Non-Participating	0:00	0:00	0:00
2214	645840.98	5008574.90	Non-Participating	0:00	0:00	0:00
2217	645708.61	5008004.25	Non-Participating	0:00	0:00	0:00
2218	645720.53	5008021.46	Non-Participating	0:00	0:00	0:00
2219	645631.03	5008056.63	Non-Participating	0:00	0:00	0:00
2220	645560.46	5008023.00	Non-Participating	0:00	0:00	0:00
2230	644920.93	5009426.30	Non-Participating	0:00	0:00	0:00
2236	646374.72	5009624.58	Non-Participating	0:00	0:00	0:00
2239	647229.03	5010859.63	Participating	2:35	0:00	(-) 2:35
2240	648982.24	5010914.63	Participating	1:30	0:00	(-) 1:30
2242	648974.09	5010822.91	Non-Participating	17:12	0:00	(-) 17:12
2243	650458.09	5010135.55	Non-Participating	6:08	0:00	(-) 6:08
2244	651399.84	5010537.19	Non-Participating	0:00	0:00	0:00
2270	645591.52	5011330.52	Participating	0:00	0:00	0:00
2271	646356.26	5011253.61	Non-Participating	0:00	0:00	0:00
2277	647415.35	5011482.18	Non-Participating	5:17	6:02	0:45
2293	650616.12	5013442.16	Non-Participating	3:22	3:54	0:32
2305	648987.99	5013202.15	Participating	37:00	45:33	8:33
2306	647290.87	5013273.96	Non-Participating	8:49	10:06	1:17
2423	643933.96	5009635.42	Non-Participating	0:00	0:00	0:00
2424	643946.39	5009641.33	Non-Participating	0:00	0:00	0:00
2426	644853.33	5009638.98	Non-Participating	0:00	0:00	0:00
2427	644862.14	5009641.30	Non-Participating	0:00	0:00	0:00
2496	643667.62	5012693.36	Non-Participating	0:00	0:00	0:00
2521	644116.25	5010595.94	Non-Participating	0:00	0:00	0:00
2528	645577.99	5010725.78	Participating	0:00	0:00	0:00
2554	643750.44	5016047.80	Participating	0:00	0:00	0:00
2572	645476.01	5015383.27	Participating	19:07	19:18	0:11
2573	645485.86	5015380.02	Participating	19:58	20:03	0:05
2574	645493.52	5015381.73	Participating	20:23	20:33	0:10
2575	645504.71	5015378.12	Participating	21:21	21:27	0:06
2576	645515.66	5015380.47	Participating	22:00	22:18	0:18
2578	646310.24	5014306.02	Participating	28:04	31:55	3:51
2972	644922.56	5009429.71	Non-Participating	0:00	0:00	0:00
2973	649025.05	5010906.20	Participating	0:00	0:00	0:00
2974	647394.85	5011472.38	Non-Participating	5:31	6:21	0:50
2975	643939.34	5009639.68	Non-Participating	0:00	0:00	0:00
2976	644856.17	5009637.68	Non-Participating	0:00	0:00	0:00
3797	644380.38	5016007.67	Participating	1:30	1:43	0:13
4198	644000.03	5014277.21	Non-Participating	0:00	0:00	0:00