



## **APPENDIX K      FLAME LENGTH CALCULATIONS**

## K1. FLAME LENGTH CALCULATIONS (PROJECT INFRASTRUCTURE), METHOD 2 AS3959

Infrastructure Type	ID	North			East			South			West		
		Distance to Vegetation (m)	Flame Length (m)	Asset located in Flame Zone?	Distance to Vegetation (m)	Flame Length (m)	Asset located in Flame Zone?	Distance to Vegetation (m)	Flame Length (m)	Asset located in Flame Zone?	Distance to Vegetation (m)	Flame Length (m)	Asset located in Flame Zone?
<del>Turbine</del>	<del>WP1</del>												
Turbine	WP2	10.47	33.11	FZ	>100			29.40	9.34	No	29.94	24.42	No
Turbine	WP3	96.12	10.18	No	78.00	4.25	No	17.48	16.39	No	69.12	12.47	No
Turbine	WP4	>100			54.51	14.05	No	53.44	77.80	FZ	>100		
Turbine	WP5	>100			>100			43.29	10.50	No	43.07	12.92	No
Turbine	WP6	33.49	9.97	No	50.88	10.71	No	48.74	58.32	FZ	26.55	90.93	FZ
Turbine	WP7	>100			>100			33.17	56.92	FZ	35.92	45.36	FZ
Turbine	WP8	38.13	83.19	FZ	41.48	58.34	FZ	61.51	9.74	No	69.31	52.53	No
Turbine	WP9	26.40	38.77	FZ	43.33	12.87	No	35.03	50.53	FZ	22.88	38.56	FZ
Turbine	WP10	68.18	8.96	No	73.29	29.30	No	58.54	12.54	No	26.76	23.47	No
Turbine	WP11	>100			61.03	16.31	No	39.05	34.10	No	29.24	17.02	No
Turbine	WP12	34.00	90.50	FZ	43.14	87.40	FZ	50.27	9.74	No	22.27	90.50	FZ
Turbine	WP13	>100			52.31	11.53	No	52.95	13.86	No	98.72	9.76	No
Turbine	WP14	37.02	15.76	No	15.73	11.25	No	34.90	50.21	FZ	57.28	34.93	No
Turbine	WP15	16.86	53.04	FZ	60.14	38.53	No	35.47	10.96	No	11.85	38.13	FZ
Turbine	WP16	32.24	43.80	FZ	46.11	9.74	No	18.92	74.07	FZ	16.07	9.74	No
Turbine	WP17	21.35	83.95	FZ	62.41	9.74	No	75.07	12.51	No	55.51	59.00	FZ
Turbine	WP18	>100			28.96	72.21	FZ	38.55	62.76	FZ	31.43	84.91	FZ
<del>Turbine</del>	<del>WP19</del>												
Turbine	WP20	>100			54.68	29.09	No	23.37	27.86	FZ	23.40	22.69	No
Turbine	WP21	19.15	25.89	FZ	24.16	27.35	FZ	16.86	14.56	No	15.97	30.41	FZ
Turbine	WP22	13.00	66.21	FZ	65.46	57.37	No	25.13	11.64	No	13.43	86.79	FZ
<del>Turbine</del>	<del>WP23</del>												
Turbine	WP24	14.78	11.94	No	16.79	12.69	No	20.62	26.96	FZ	27.86	52.49	FZ

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Turbine	WP25	>100			97.44	24.88	No	93.27	25.60	No	>100		
Turbine	WP26	>100			>100			>100			>100		
<del>Turbine</del>	<del>WP27</del>												
Turbine	WP28	62.69	14.48	No	50.48	16.16	No	79.90	34.15	No	>100		
Turbine	WP29	55.71	16.79	No	43.46	38.04	No	12.72	15.01	FZ	27.18	17.89	No
Turbine	WP30	29.54	26.58	No	12.62	25.47	FZ	12.63	16.64	FZ	33.95	16.39	No
<del>Turbine</del>	<del>WP31</del>												
Turbine	WP32	0.00	11.29	FZ	0.00	10.31	FZ	0.00	13.23	FZ	0.00	31.55	FZ
Turbine	WP33	27.40	14.82	No	12.74	29.45	FZ	13.57	67.24	FZ	35.99	37.43	FZ
Turbine	WP34	67.85	12.55	No	15.04	26.58	FZ	16.49	33.03	FZ	19.02	14.55	No
Turbine	WP35	>100			>100			>100			>100		
Turbine	WP36	45.60	69.73	FZ	77.75	20.87	No	73.80	21.28	No	>100		
Turbine	WP37	>100			48.02	36.39	No	>100			40.21	19.95	No
Turbine	WP38	>100			>100			>100			75.12	17.19	No
Turbine	WP39	84.77	44.71	No	>100			72.67	17.79	No	>100		
Turbine	WP40	41.22	71.09	FZ	44.96	59.36	FZ	20.03	10.21	No	>100		
<del>Turbine</del>	<del>WP41</del>												
Turbine	WP42	59.66	12.69	No	80.31	13.08	No	>100			62.01	90.97	FZ
Turbine	WP43	70.24	88.44	FZ	>100			84.69	22.43	No	36.39	23.47	No
Turbine	WP44	>100			>100			>100			>100		
Turbine	WP45	28.79	39.76	FZ	98.47	17.71	No	>100			>100		
Turbine	WP46	>100			>100			>100			>100		
Turbine	WP47	>100			>101			>100			>100		
Turbine	WP48	58.33	23.45	No	66.26	15.13	No	37.74	39.86	FZ	41.23	32.01	No
Turbine	WP49	>100			17.20	18.04	FZ	23.66	28.40	FZ	36.57	43.78	FZ

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Turbine	WP50	75.37	34.46	No	50.31	19.93	No	48.95	12.04	No	0.00	24.03	FZ
Turbine	WP51	39.63	35.96	No	66.20	15.59	No	56.39	39.55	No	36.17	79.02	FZ
Turbine	WP52	>100			97.82	25.57	No	94.42	46.19	No	68.19	72.48	FZ
Turbine	WP53	61.16	48.38	No	28.27	17.53	No	66.37	15.21	No	>100		
Turbine	WP54	>100			86.42	18.05	No	62.18	30.21	No	55.17	70.83	FZ
Turbine	WP55	>100			>100			>100			>100		
Turbine	WP56	>100			>100			93.90	22.46	No	>100		
Turbine	WP57	45.03	36.52	No	37.13	16.13	No	>100			55.64	84.93	FZ
Turbine	WP58	25.88	38.21	FZ	>100			>100			29.04	38.12	FZ
Turbine	WP59	67.02	54.63	No	29.26	14.78	No	29.40	11.96	No	75.96	94.27	FZ
Turbine	WP60	>100			61.87	14.53	No	60.22	13.15	No	>100		
Turbine	WP61	13.19	9.86	No	20.84	10.97	No	71.66	9.74	No	29.24	48.66	FZ
Turbine	WP62	52.28	32.87	No	>100			>100			>100		
Turbine	WP63	13.00	56.78	FZ	20.59	55.76	FZ	>100			14.91	60.95	FZ
Turbine	WP64	>100			>100			73.52	11.25	No	38.06	18.99	No
Turbine	WP65	>100			>100			33.34	35.42	FZ	55.89	14.69	No
Turbine	WP66	>100			>100			>100			>100		
Turbine	WP67	>100			>100			>100			>100		
Turbine	WP68												
Turbine	WP69	44.62	28.89	No	44.67	36.32	No	>100			>100		
Turbine	WP70	51.71	48.79	No	61.89	64.94	FZ	>100			>100		
Substation		40.44	14.75	No	12	22.47	FZ	>100			>100		

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Switching Station		23.16	12.36	No	0	32.17	FZ	35.39	35.30	No	>100		
BESS/Laydown/Batching		43.90	14.75	No	85.60	15.63	No	96.14	28.08	No	4.8	22.00	FZ
O&M Option 1		47.49	9.62	No	>100			>100			>100		
Compound/O&M Option 2		>100			>100			10	30.63	FZ	41.2	20.07	No
Laydown 1	1	68.78	11.49	No	0	52.14	FZ	>100			>100		
Laydown 2	2	>100			54.53	23.44	No	>100			86.76	24.76	No
Compound		0.00	16.51	FZ	6	17.11	FZ	>100			>100		
Batching/Laydown	1	>100			>100			>100			>100		
Batching/Laydown	2	>100			>100			>100			>100		
Batching/Laydown	3	40.35	28.23	No	>100			>100			>100		
Batching/Laydown	4	3.30	25.61	FZ	0	16.38	FZ	0	22.08	FZ	2.5	21.67	FZ
Alternative Substation		0.00	20.75	FZ	0.00	58.97	FZ	0.00	31.29	FZ	0.00	31.63	FZ
Alternative BESS/Laydown/Batching		0.00	37.07	FZ	0.00	12.34	FZ	0.00	49.44	FZ	0.00	44.35	FZ
Alternative O&M Option3		0.00	19.03	FZ	0.00	13.02	FZ	0.00	15.42	FZ	0.00	27.00	FZ
Alternative Laydown/Batching/Compound	1	0.00	13.98	FZ	18.42	15.59	No	0	18.78	FZ	0	9.23	FZ
Alternative Laydown/Batching/Compound	2	>100			0	15.76	FZ	>100			>100		

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