

EXHIBIT C

4910 - Dakota Range Wind - Codington & Grant Counties, SD
Sound Level Analysis - Proposed Layout 181102 (LAY-045) + Substation
Sound Level Modeling Results Summary - Sorted by Sound Level

Summary

Description	Maximum Modeled Sound Level (dBA)	Number of Residences Out of Compliance
Results	45	0

Details by Sound Level (All Receptors)

Receptor ID	Coordinates UTM NAD83 Zone 14N		Participation Status	County	Receptor Type	Source Only Leq Broadband Sound Level (dBA)
	X (m)	Y (m)				
2005	650626.79	5005202.02	Participating	Grant	House	45
2257	655074.36	5009886.86	Participating	Grant	House	45
2086	653612.64	5006755.67	Participating	Grant	House	45
1915	653456.51	5004343.87	Participating	Grant	House	45
2153	657618.71	5009594.79	Participating	Grant	House	44
2212	650493.66	5008776.86	Non-Participating	Grant	House	44
1914	653600.45	5003245.37	Participating	Grant	House	43
2158	655865.10	5008248.23	Participating	Grant	House	43
2149	657734.58	5008810.13	Participating	Grant	House	43
2041	653593.66	5006201.50	Non-Participating	Grant	House	43
2496	653626.22	5003190.21	Participating	Grant	House	43
1791	654852.45	5000075.99	Participating	Codington	House	43
1919	651979.07	5003440.36	Participating	Grant	House	42
1787	655087.18	5000951.82	Participating	Codington	House	42
2449	650900.06	5006334.22	Non-Participating	Grant	House	42
1794	653692.68	5000273.03	Participating	Codington	House	42
1697	655253.74	4997956.71	Participating	Codington	House	42
1955	648976.90	5004831.73	Non-Participating	Grant	House	41
1784	655170.00	5001262.14	Non-Participating	Codington	House	41
1953	648855.29	5004824.59	Non-Participating	Grant	House	41
1957	649090.23	5004809.12	Non-Participating	Grant	Business	41
1994	650684.64	5006150.39	Non-Participating	Grant	House	41
1995	650837.63	5006168.70	Non-Participating	Grant	House	41
2205	650503.26	5009033.74	Non-Participating	Grant	House	41
1849	653530.94	5002924.70	Non-Participating	Grant	House	41
1850	653518.23	5002856.66	Non-Participating	Grant	House	41
1847	652660.85	5002765.85	Participating	Grant	House	41
1725	656815.87	4999863.27	Non-Participating	Codington	House	40
2168	653411.62	5009060.41	Participating	Grant	House	40
2455	651981.94	5003185.29	Non-Participating	Grant	Church	40
1698	655366.22	4998311.58	Non-Participating	Codington	House	40
2085	655202.17	5004865.99	Non-Participating	Grant	House	39
2193	652045.23	5009239.11	Non-Participating	Grant	House	39
1837	651909.87	5003057.90	Non-Participating	Grant	House	39
1705	656685.45	4997836.26	Non-Participating	Codington	House	39
2195	650621.29	5009376.36	Non-Participating	Grant	House	39
2260	658287.22	5009765.21	Participating	Grant	House	39
1962	649045.78	5006117.82	Participating	Grant	House	39
2080	657770.35	5004970.01	Non-Participating	Grant	House	39
1988	649022.20	5007623.82	Non-Participating	Grant	Barn	39
1991	649187.06	5007077.92	Non-Participating	Grant	Barn	39
1908	655165.86	5002087.27	Non-Participating	Grant	House	39
1968	648969.51	5006429.63	Non-Participating	Grant	House	38
2182	652821.24	5009387.00	Non-Participating	Grant	House	38
1782	658372.24	5001257.48	Non-Participating	Codington	House	38
1985	648480.56	5007489.68	Participating	Grant	House	38
1695	654384.51	4996687.82	Non-Participating	Codington	House	37

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Details by Sound Level (All Receptors)

Receptor ID	Coordinates		Participation Status	County	Receptor Type	Source Only Leq Broadband Sound Level (dBA)
	UTM NAD83 Zone 14N X (m)	Y (m)				
1575	655954.93	4995240.17	Non-Participating	Codington	House	37
1710	656976.54	4997093.04	Non-Participating	Codington	House	37
1717	656867.97	4998569.91	Non-Participating	Codington	House	36
2243	650458.09	5010135.55	Non-Participating	Grant	House	36
2214	645840.98	5008574.90	Participating	Grant	House	36
1564	656621.54	4995250.50	Non-Participating	Codington	House	36
2251	653709.32	5011041.66	Participating	Grant	House	36
1832	651107.55	5003102.46	Participating	Grant	House	36
2236	646374.72	5009624.58	Non-Participating	Grant	House	36
1584	654917.16	4995237.31	Non-Participating	Codington	House	36
1976	647303.97	5007251.04	Participating	Grant	House	36
1937	648977.78	5004008.60	Non-Participating	Grant	House	35
2020	658319.47	5004153.08	Non-Participating	Grant	House	35
2279	653707.33	5011412.61	Non-Participating	Grant	House	35
2280	653706.52	5011445.93	Non-Participating	Grant	House	35
2281	653705.48	5011488.76	Non-Participating	Grant	House	35
1684	653787.02	4998022.59	Non-Participating	Codington	House	34
1828	650524.49	5003103.91	Participating	Grant	House	34
2218	645720.53	5008021.46	Participating	Grant	House	34
2242	648974.09	5010822.91	Non-Participating	Grant	House	34
2217	645708.61	5008004.25	Participating	Grant	House	34
2240	649025.05	5010906.20	Non-Participating	Grant	House	34
1675	651994.47	4999721.14	Non-Participating	Codington	House	34
1688	653778.28	4996825.57	Non-Participating	Codington	House	34
2219	645631.03	5008056.63	Participating	Grant	House	34
1904	658164.88	5003370.45	Non-Participating	Grant	House	34
1947	647511.12	5006001.75	Non-Participating	Grant	House	34
1970	646968.92	5006520.98	Non-Participating	Grant	House	33
1721	657770.19	4996904.04	Non-Participating	Codington	House	33
1840	650832.97	5001658.43	Non-Participating	Grant	House	33
1722	657792.58	4996940.40	Non-Participating	Codington	House	33
1821	649665.32	5003050.76	Non-Participating	Grant	House	33
1928	649363.69	5003248.44	Participating	Grant	House	33
1588	653838.26	4995578.48	Non-Participating	Codington	House	33
2239	647229.03	5010859.63	Non-Participating	Grant	House	33
1546	657464.70	4995163.56	Non-Participating	Codington	House	32
1938	647494.42	5004033.38	Non-Participating	Grant	House	32
1815	648970.50	5002809.01	Participating	Grant	House	31
2018	659717.08	5002264.17	Non-Participating	Grant	House	31
2277	647394.85	5011472.38	Non-Participating	Grant	House	31
1540	656798.10	4994383.05	Non-Participating	Codington	House	31
2008	661242.84	5005002.70	Non-Participating	Grant	House	31
2230	644922.56	5009429.71	Participating	Grant	House	30
1590	652995.68	4995885.56	Non-Participating	Codington	House	30
2271	646356.26	5011253.61	Non-Participating	Grant	House	30
2007	661518.31	5004784.40	Participating	Grant	House	30
2287	657521.45	5013443.09	Non-Participating	Grant	House	30
2426	644856.17	5009637.68	Non-Participating	Grant	House	30
1762	649063.96	5001386.23	Non-Participating	Codington	House	30
1591	652436.54	4996047.89	Participating	Codington	House	29
1554	658362.21	4995127.56	Non-Participating	Codington	House	29
2012	661599.97	5003749.29	Participating	Grant	House	29
2270	645591.52	5011330.52	Non-Participating	Grant	House	29
2290	657917.63	5013363.29	Non-Participating	Grant	House	29
1555	658578.51	4995244.25	Non-Participating	Codington	House	29
1659	650595.55	4997697.39	Non-Participating	Codington	House	28
1759	648809.41	4999992.49	Non-Participating	Codington	House	28
1537	655804.37	4993535.65	Non-Participating	Codington	House	28

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Details by Sound Level (All Receptors)

Receptor ID	Coordinates		Participation Status	County	Receptor Type	Source Only Leq Broadband Sound Level (dBA)
	UTM NAD83 Zone 14N X (m)	Y (m)				
1669	649340.75	4999049.86	Participating	Codington	House	28
1809	647235.37	5001567.12	Participating	Grant	House	28
1749	648159.89	5000058.41	Non-Participating	Codington	House	28
1870	661126.69	5001722.46	Non-Participating	Grant	House	27
1653	650473.00	4996848.32	Non-Participating	Codington	House	27
1745	647461.13	5000525.45	Non-Participating	Codington	House	27
2424	643939.34	5009639.68	Non-Participating	Grant	House	27
1746	647456.46	5000456.03	Non-Participating	Codington	House	27
1867	661784.38	5001742.15	Non-Participating	Grant	House	27
1528	653394.86	4993505.03	Participating	Codington	House	27
1595	650593.29	4996054.48	Non-Participating	Codington	House	27
1647	649154.79	4997753.24	Non-Participating	Codington	House	27
1772	661543.34	5000761.33	Non-Participating	Codington	House	27
1888	663576.49	5004901.72	Non-Participating	Grant	House	26
2416	643160.20	5007930.05	Non-Participating	Grant	House	26
1596	650496.01	4995587.28	Non-Participating	Codington	House	26
2141	661510.62	5009229.70	Non-Participating	Grant	House	26
1599	650636.90	4995303.04	Non-Participating	Codington	House	26
1764	663178.63	5001621.05	Non-Participating	Codington	House	26
2074	663797.17	5005085.81	Non-Participating	Grant	House	26
1666	647488.92	4998352.98	Non-Participating	Codington	House	25
1805	644356.98	5002651.43	Participating	Grant	House	25
1614	650501.55	4994753.62	Non-Participating	Codington	House	25
1639	647523.41	4997799.99	Non-Participating	Codington	House	25
1874	663970.35	5002019.97	Non-Participating	Grant	House	25
1624	648375.40	4996645.46	Non-Participating	Codington	House	25
2364	651457.46	4993586.61	Non-Participating	Codington	House	25
1885	664644.10	5004250.93	Non-Participating	Grant	House	25
1635	647647.95	4997080.29	Non-Participating	Codington	House	25
1799	645387.42	4999931.96	Non-Participating	Codington	House	25
1476	653549.62	4991972.23	Non-Participating	Codington	House	24
1520	652311.29	4992164.18	Non-Participating	Codington	House	24
1472	653950.59	4991543.64	Participating	Codington	House	24
1618	648862.47	4994649.83	Non-Participating	Codington	House	24
2038	646743.98	4996587.90	Non-Participating	Codington	House	24
2368	651076.00	4993539.97	Non-Participating	Codington	House	24
2348	649271.45	4993557.43	Non-Participating	Codington	House	23
2347	649279.70	4993533.72	Non-Participating	Codington	House	23
1511	650706.98	4992320.66	Participating	Codington	House	23
1470	653857.99	4990720.09	Participating	Codington	House	23
1510	650692.61	4992057.70	Non-Participating	Codington	House	23
2356	647698.06	4993969.91	Non-Participating	Codington	House	22
2022	650528.30	4993061.83	Non-Participating	Codington	House	22
2339	649064.44	4992930.45	Non-Participating	Codington	House	22
2024	649871.67	4991903.75	Participating	Codington	House	22
2025	649921.89	4991917.62	Participating	Codington	House	22
2353	647627.18	4993444.66	Non-Participating	Codington	House	22
1437	659433.47	4992153.30	Non-Participating	Codington	House	22
1436	659446.92	4992232.95	Non-Participating	Codington	House	22
2099	664537.21	5007281.04	Non-Participating	Grant	House	22
1503	650657.74	4990852.72	Non-Participating	Codington	House	22
1489	651609.43	4990364.76	Non-Participating	Codington	House	21
2318	648352.31	4991902.58	Participating	Codington	House	21
2315	649018.76	4991138.66	Non-Participating	Codington	House	21
1498	650856.93	4990053.74	Non-Participating	Codington	House	21
1884	664755.72	5004486.66	Non-Participating	Grant	House	21
1497	650662.06	4989915.49	Non-Participating	Codington	House	21
2372	658654.33	4990392.79	Non-Participating	Codington	House	21

EXHIBIT C**Details by Sound Level (All Receptors)**

Receptor ID	Coordinates UTM NAD83 Zone 14N		Participation Status	County	Receptor Type	Source Only Leq Broadband Sound Level (dBA)
	X (m)	Y (m)				
1482	652413.64	4990050.68	Participating	Codington	House	20
2107	664924.28	5006725.78	Non-Participating	Grant	House	20
1425	656834.67	4990400.04	Participating	Codington	House	20
2066	664805.69	5006459.59	Non-Participating	Grant	House	19
1406	652415.58	4988918.69	Non-Participating	Codington	House	19
1412	654015.11	4988590.25	Non-Participating	Codington	House	19
1420	655846.86	4989588.29	Participating	Codington	House	19
1434	657862.31	4991817.05	Non-Participating	Codington	House	18
1481	652432.12	4989894.34	Non-Participating	Codington	House	17
1419	654681.58	4990406.38	Participating	Codington	House	16