

Hankard Rebuttal Testimony - Exhibit 1

Noise Analysis for the
Proposed South Deuel Wind Project

Table E-1. Cumulative Noise Levels, South Deuel Wind + Tatanka Ridge

Receptor	Status	Tatanka Only Noise Level (L _{eq} dBA)	Deuel Only Predicted Noise Level (L _{eq} dBA)			Deuel + Tatanka Predicted Noise Level (L _{eq} dBA)			Dominant Facility
			SG 4.4-164	V163-4.5 STE	GE 3.8-154 LNTE	SG 4.4-164	V163-4.5 STE	GE 3.8-154 LNTE	
R-006	Non-Participating	27.1	31.2	35.0	36.0	32.6	35.6	36.5	S. Deuel Wind
R-007	Non-Participating	27.0	31.3	35.0	36.0	32.7	35.7	36.5	S. Deuel Wind
R-021	Non-Participating	23.5	36.7	39.6	40.6	36.9	39.7	40.7	S. Deuel Wind
R-022	Participating	24.8	37.8	40.3	41.5	38.0	40.4	41.5	S. Deuel Wind
R-023	Non-Participating	25.3	36.5	39.3	40.4	36.8	39.5	40.5	S. Deuel Wind
R-024	Non-Participating	23.5	38.0	40.6	41.7	38.2	40.7	41.8	S. Deuel Wind
R-025	Non-Participating	25.2	40.9	43.2	44.4	41.0	43.3	44.4	S. Deuel Wind
R-026	Non-Participating	28.2	39.9	42.3	43.4	40.2	42.4	43.6	S. Deuel Wind
R-027	Participating	26.6	44.5	46.1	47.5	44.5	46.1	47.6	S. Deuel Wind
R-028	Participating	26.5	41.2	43.6	44.7	41.4	43.7	44.8	S. Deuel Wind
R-054	Non-Participating	21.7	30.9	34.6	35.6	31.4	34.8	35.8	S. Deuel Wind
R-055	Non-Participating	22.5	33.8	37.1	38.1	34.2	37.2	38.2	S. Deuel Wind
R-061	Non-Participating	26.4	38.4	40.8	42.0	38.7	41.0	42.2	S. Deuel Wind
R-062	Participating	26.8	34.9	38.4	39.4	35.5	38.7	39.6	S. Deuel Wind
R-064	Non-Participating	27.3	40.7	42.9	44.3	40.9	43.1	44.3	S. Deuel Wind
R-065	Non-Participating	27.3	40.5	42.8	44.0	40.7	42.9	44.1	S. Deuel Wind
R-066	Participating	27.0	35.6	39.0	40.0	36.2	39.3	40.2	S. Deuel Wind
R-067	Participating	28.3	38.1	41.1	42.1	38.5	41.3	42.3	S. Deuel Wind
R-068	Non-Participating	27.4	37.6	40.5	41.5	38.0	40.7	41.7	S. Deuel Wind
R-069	Participating	28.6	40.0	42.4	43.6	40.3	42.5	43.7	S. Deuel Wind
R-070	Participating	28.5	39.3	41.8	42.9	39.6	42.0	43.1	S. Deuel Wind
R-071	Non-Participating	28.4	36.2	39.5	40.4	36.9	39.9	40.7	S. Deuel Wind
R-072	Participating	27.6	40.2	42.4	43.7	40.4	42.6	43.8	S. Deuel Wind
R-073	Participating	27.4	38.1	40.8	41.9	38.4	41.0	42.1	S. Deuel Wind
R-074	Participating	27.1	40.4	42.8	44.0	40.6	43.0	44.1	S. Deuel Wind
R-076	Non-Participating	25.5	39.5	41.8	43.0	39.7	41.9	43.1	S. Deuel Wind
R-077	Non-Participating	25.3	41.2	43.5	44.7	41.3	43.6	44.7	S. Deuel Wind
R-078	Participating	23.9	44.6	46.2	47.6	44.6	46.2	47.7	S. Deuel Wind
R-079	Participating	23.1	40.5	42.5	43.8	40.5	42.5	43.8	S. Deuel Wind
R-081	Non-Participating	27.6	40.3	42.7	43.8	40.5	42.8	43.9	S. Deuel Wind
R-082	Non-Participating	27.5	40.7	43.0	44.2	40.9	43.2	44.3	S. Deuel Wind
R-084	Non-Participating	29.6	34.7	38.4	39.3	35.9	39.0	39.7	S. Deuel Wind
R-085	Non-Participating	31.6	36.7	39.8	40.7	37.8	40.4	41.2	S. Deuel Wind
R-086	Non-Participating	30.6	40.5	43.0	44.1	41.0	43.2	44.3	S. Deuel Wind
R-087	Non-Participating	31.3	41.5	43.8	44.9	41.9	44.0	45.1	S. Deuel Wind
R-088	Non-Participating	33.2	38.7	41.4	42.3	39.8	42.0	42.8	S. Deuel Wind
R-089	Non-Participating	33.0	41.8	43.9	45.0	42.3	44.2	45.2	S. Deuel Wind
R-090	Non-Participating	35.5	41.1	43.4	44.4	42.2	44.1	44.9	S. Deuel Wind
R-091	Participating	40.0	42.6	44.5	45.8	44.5	45.8	46.8	Both
R-092	Participating	36.2	38.1	40.8	41.8	40.3	42.1	42.9	Both
R-093	Non-Participating	35.7	35.3	38.5	39.5	38.5	40.3	41.0	Both
R-096	Non-Participating	34.2	35.4	38.7	39.6	37.8	40.0	40.7	Both
R-099	Participating	33.0	33.8	37.6	38.4	36.4	38.9	39.5	Both
R-100	Non-Participating	30.2	34.5	38.2	39.1	35.8	38.9	39.6	S. Deuel Wind
R-101	Non-Participating	29.7	34.7	38.4	39.3	35.9	39.0	39.7	S. Deuel Wind
R-155	Non-Participating	30.1	41.4	43.6	44.8	41.7	43.8	45.0	S. Deuel Wind
R-156	Participating	27.8	41.4	43.4	44.7	41.6	43.5	44.8	S. Deuel Wind
R-157	Non-Participating	28.7	40.1	42.6	43.7	40.4	42.7	43.9	S. Deuel Wind
R-158	Non-Participating	26.7	32.9	36.2	37.3	33.8	36.7	37.6	S. Deuel Wind
R-160	Non-Participating	27.0	35.0	38.4	39.3	35.7	38.7	39.6	S. Deuel Wind

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R-161	Non-Participating	27.8	36.1	39.2	40.2	36.7	39.5	40.4	S. Deuel Wind
R-162	Non-Participating	28.1	40.3	42.6	43.8	40.5	42.7	43.9	S. Deuel Wind
R-163	Participating	28.3	41.7	43.7	45.0	41.9	43.8	45.1	S. Deuel Wind
R-164	Non-Participating	30.0	39.1	41.7	42.8	39.6	42.0	43.0	S. Deuel Wind
R-165	Non-Participating	31.9	40.9	43.1	44.4	41.5	43.4	44.6	S. Deuel Wind
R-166	Participating	35.0	41.1	43.3	44.5	42.0	43.9	45.0	S. Deuel Wind
R-167	Non-Participating	37.2	38.1	40.8	41.9	40.7	42.4	43.1	Both
R-169	Participating	39.9	41.4	43.0	44.5	43.7	44.7	45.8	Both
R-171	Non-Participating	43.0	37.9	40.4	41.5	44.2	44.9	45.3	Tatanka Ridge
R-172	Non-Participating	42.7	35.5	38.6	39.6	43.5	44.1	44.4	Tatanka Ridge
R-173	Participating	39.2	42.2	43.9	45.4	43.9	45.2	46.3	Both
R-174	Non-Participating	40.9	35.4	38.7	39.6	42.0	43.0	43.3	Tatanka Ridge
R-175	Participating	40.5	35.4	38.7	39.7	41.7	42.7	43.1	Tatanka Ridge
R-176	Participating	37.1	41.4	43.4	44.7	42.8	44.3	45.4	S. Deuel Wind
R-177	Participating	35.8	42.5	44.6	45.8	43.4	45.1	46.3	S. Deuel Wind
R-178	Participating	36.6	42.4	44.2	45.6	43.4	44.9	46.2	S. Deuel Wind
R-179	Participating	36.4	40.3	42.7	43.9	41.8	43.6	44.6	S. Deuel Wind
R-180	Participating	34.9	41.0	43.4	44.5	42.0	44.0	45.0	S. Deuel Wind
R-181	Participating	34.2	40.0	42.6	43.6	41.0	43.2	44.1	S. Deuel Wind
R-182	Participating	33.7	43.1	45.0	46.3	43.6	45.3	46.6	S. Deuel Wind
R-183	Non-Participating	31.0	37.4	40.4	41.4	38.3	40.9	41.8	S. Deuel Wind
R-184	Participating	32.9	41.4	43.7	44.9	42.0	44.1	45.2	S. Deuel Wind
R-185	Participating	32.2	40.3	42.7	43.9	41.0	43.1	44.2	S. Deuel Wind
R-186	Non-Participating	30.8	36.9	40.1	41.0	37.9	40.6	41.4	S. Deuel Wind
R-187	Non-Participating	31.2	38.4	41.1	42.2	39.1	41.5	42.5	S. Deuel Wind
R-188	Non-Participating	31.2	38.0	40.9	41.8	38.8	41.3	42.2	S. Deuel Wind
R-189	Participating	29.3	35.3	38.6	39.5	36.3	39.1	39.9	S. Deuel Wind
R-190	Participating	29.5	38.7	41.1	42.3	39.2	41.4	42.5	S. Deuel Wind
R-191	Participating	29.4	37.8	40.4	41.5	38.4	40.7	41.7	S. Deuel Wind
R-192	Non-Participating	28.4	34.4	37.7	38.7	35.4	38.2	39.0	S. Deuel Wind
R-193	Participating	27.9	40.2	41.9	43.4	40.4	42.0	43.5	S. Deuel Wind
R-194	Non-Participating	27.8	37.5	39.7	41.0	37.9	40.0	41.2	S. Deuel Wind
R-195	Non-Participating	27.2	33.7	36.8	37.9	34.6	37.3	38.2	S. Deuel Wind
R-196	Non-Participating	26.8	33.0	36.3	37.3	33.9	36.8	37.7	S. Deuel Wind
R-197	Non-Participating	27.2	31.9	35.5	36.5	33.1	36.1	37.0	S. Deuel Wind
R-198	Non-Participating	27.1	32.0	35.6	36.6	33.2	36.2	37.1	S. Deuel Wind
R-200	Non-Participating	29.0	41.1	43.1	44.4	41.3	43.3	44.5	S. Deuel Wind
R-201	Participating	30.9	41.6	43.7	44.9	42.0	43.9	45.1	S. Deuel Wind
R-203	Participating	37.3	43.2	45.1	46.4	44.2	45.7	46.9	S. Deuel Wind
R-204	Non-Participating	39.3	38.8	41.0	42.3	42.1	43.2	44.0	Both
R-205	Non-Participating	39.6	40.8	42.9	44.2	43.2	44.6	45.5	Both
R-209	Non-Participating	41.5	33.4	36.7	37.7	42.2	42.8	43.0	Tatanka Ridge
R-212	Participating	44.6	32.2	35.7	36.7	44.8	45.1	45.2	Tatanka Ridge
R-215	Non-Participating	32.8	32.5	36.0	36.9	35.7	37.7	38.3	Both
R-216	Non-Participating	29.8	35.0	37.7	38.8	36.2	38.4	39.3	S. Deuel Wind
R-228	Non-Participating	42.3	35.8	38.6	39.7	43.1	43.8	44.2	Tatanka Ridge
R-229	Non-Participating	41.6	36.2	39.1	40.1	42.7	43.5	43.9	Tatanka Ridge
R-231	Non-Participating	43.0	36.3	39.3	40.3	43.8	44.5	44.9	Tatanka Ridge
R-241	Non-Participating	29.5	33.5	36.8	38.0	35.0	37.5	38.5	S. Deuel Wind
R-242	Non-Participating	28.9	37.4	40.0	41.3	38.0	40.3	41.6	S. Deuel Wind
R-243	Participating	30.3	43.2	45.0	46.6	43.4	45.2	46.7	S. Deuel Wind
R-244	Participating	30.7	43.9	45.7	47.3	44.1	45.9	47.4	S. Deuel Wind
R-245	Participating	28.0	43.4	45.1	47.8	43.5	45.2	47.9	S. Deuel Wind
R-246	Participating	28.5	41.2	43.6	47.0	41.4	43.8	47.0	S. Deuel Wind
R-251	Non-Participating	25.5	35.5	38.6	40.0	35.9	38.8	40.1	S. Deuel Wind

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R-252	Non-Participating	25.9	38.3	40.9	42.6	38.6	41.1	42.7	S. Deuel Wind
R-253	Non-Participating	24.3	35.1	37.9	39.8	35.4	38.1	40.0	S. Deuel Wind
R-255	Non-Participating	24.5	38.1	40.2	42.5	38.3	40.3	42.6	S. Deuel Wind
R-256	Non-Participating	25.3	37.7	40.0	44.0	37.9	40.2	44.1	S. Deuel Wind
R-257	Non-Participating	26.4	39.2	41.4	44.4	39.4	41.5	44.5	S. Deuel Wind
R-258	Non-Participating	24.5	31.3	34.9	37.3	32.1	35.3	37.6	S. Deuel Wind
R-280	Non-Participating	27.1	32.2	35.7	36.7	33.3	36.3	37.2	S. Deuel Wind
R-281	Non-Participating	27.1	32.6	36.0	37.0	33.7	36.5	37.4	S. Deuel Wind
R-282	Non-Participating	24.1	34.0	37.4	38.4	34.5	37.6	38.6	S. Deuel Wind
R-283	Non-Participating	26.3	39.7	42.0	43.4	39.9	42.1	43.5	S. Deuel Wind
R-286	Non-Participating	29.8	37.4	39.9	41.2	38.1	40.3	41.5	S. Deuel Wind
R-289	Participating	28.5	37.4	40.2	41.3	37.9	40.5	41.5	S. Deuel Wind
R-290	Non-Participating	26.3	41.3	43.7	44.9	41.5	43.8	44.9	S. Deuel Wind
R-291	Non-Participating	36.4	37.3	40.0	41.1	39.9	41.6	42.4	Both
R-294	Non-Participating	34.9	37.5	40.4	41.3	39.4	41.5	42.2	S. Deuel Wind
R-305	Participating	42.8	37.0	39.8	40.8	43.8	44.5	44.9	Tatanka Ridge
R-306	Participating	44.4	37.4	40.1	41.1	45.2	45.7	46.0	Tatanka Ridge
R-314	Participating	26.9	41.1	43.4	44.6	41.2	43.5	44.6	S. Deuel Wind
R-321	Non-Participating	37.9	37.4	39.8	41.1	40.7	42.0	42.8	Both
R-322	Participating	43.3	39.0	41.1	42.4	44.7	45.4	45.9	Both
R-323	Participating	24.1	33.3	36.4	38.8	33.8	36.7	38.9	S. Deuel Wind
R-324	Participating	26.4	40.8	43.3	44.4	41.0	43.4	44.5	S. Deuel Wind
R-325	Non-Participating	25.3	37.9	40.2	44.1	38.1	40.3	44.2	S. Deuel Wind
R-326	Non-Participating	27.5	40.5	42.9	44.1	40.8	43.0	44.2	S. Deuel Wind
R-327	Non-Participating	39.7	37.5	39.9	41.1	41.8	42.8	43.5	Both
R-328	Participating	26.7	34.6	38.2	39.2	35.2	38.5	39.4	S. Deuel Wind
R-329	Participating	28.0	43.7	45.4	48.0	43.8	45.5	48.0	S. Deuel Wind