

Deuel Harvest North Wind Farm
Deuel Harvest Wind Energy LLC

Pre-Construction Shadow Flicker Results (Updated Study)

Date: October 1, 2019

Docket: EL-18-053

Receptor Identification	Status	Easting (UTM 14)	Northing (UTM 14)	Expected Annual Shadow Flicker Hours
003	Non-Participating	683,223	4,963,726	0:00
004	Non-Participating	699,672	4,962,706	0:00
005	Non-Participating	696,155	4,962,600	0:04
006	Non-Participating	695,975	4,961,104	0:00
191	Non-Participating	683,121	4,963,032	0:00
192	Non-Participating	683,367	4,963,367	0:00
193	Non-Participating	683,472	4,962,461	0:00
194	Non-Participating	690,894	4,963,517	0:00
195	Non-Participating	693,658	4,960,634	0:00
196	Non-Participating	694,600	4,961,061	0:00
197	Non-Participating	694,375	4,961,365	0:00
198	Non-Participating	694,692	4,962,542	0:00
199	Non-Participating	698,259	4,963,973	0:30
200	Non-Participating	696,362	4,962,729	3:12
201	Non-Participating	697,509	4,962,861	1:36
202	Non-Participating	695,439	4,962,490	0:00
203	Non-Participating	695,645	4,962,537	0:00
204	Non-Participating	696,067	4,962,192	0:00
205	Non-Participating	698,033	4,962,046	0:00
207	Non-Participating	698,494	4,961,053	0:00
225	Non-Participating	676,853	4,976,229	0:00
226	Non-Participating	678,135	4,982,122	0:00
227	Non-Participating	679,674	4,983,073	0:00
228	Non-Participating	678,464	4,984,192	0:00
229	Non-Participating	682,307	4,983,747	0:00
231	Non-Participating	682,450	4,979,759	2:06
232	Participating	683,016	4,979,077	14:43
233	Non-Participating	684,511	4,978,630	3:01
234	Non-Participating	683,614	4,973,334	0:00
235	Non-Participating	683,053	4,969,806	0:00
236	Participating	684,245	4,968,817	0:00
237	Participating	683,202	4,968,178	0:04
238	Participating	683,105	4,968,328	0:00
239	Non-Participating	683,016	4,967,807	0:00
240	Non-Participating	682,674	4,967,857	0:00
241	Non-Participating	682,639	4,967,748	0:00
242	Non-Participating	682,713	4,967,753	0:00
243	Non-Participating	682,794	4,967,839	0:00
244	Non-Participating	682,755	4,967,758	0:00
245	Non-Participating	682,689	4,967,819	0:00
246	Non-Participating	682,831	4,967,838	0:00
247	Participating	682,193	4,968,103	0:00
248	Non-Participating	682,502	4,967,842	0:00
249	Non-Participating	682,496	4,967,799	0:00
250	Non-Participating	682,553	4,967,662	0:00
251	Non-Participating	682,698	4,967,682	0:00

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252	Non-Participating	682,688	4,967,635	0:00
253	Non-Participating	682,600	4,967,649	0:00
254	Non-Participating	682,510	4,967,549	0:00
255	Non-Participating	682,570	4,967,398	0:00
256	Non-Participating	684,963	4,970,141	0:00
257	Non-Participating	686,461	4,973,411	0:00
258	Non-Participating	688,454	4,973,580	2:17
259	Non-Participating	688,112	4,975,133	21:20
263	Non-Participating	684,868	4,982,990	0:00
264	Non-Participating	686,291	4,983,273	0:00
265	Non-Participating	687,203	4,983,064	0:00
267	Non-Participating	687,636	4,981,940	0:00
268	Non-Participating	687,926	4,980,067	0:22
269	Non-Participating	686,173	4,981,375	0:00
270	Non-Participating	687,441	4,979,742	1:22
271	Non-Participating	688,049	4,979,385	0:14
272	Non-Participating	686,208	4,979,503	5:43
273	Non-Participating	687,721	4,979,046	2:07
274	Non-Participating	687,963	4,978,543	2:16
275	Non-Participating	686,545	4,978,326	0:22
276	Non-Participating	684,797	4,978,196	3:52
278	Non-Participating	690,981	4,980,570	0:00
279	Non-Participating	691,674	4,980,086	0:00
280	Non-Participating	690,024	4,979,348	0:00
281	Non-Participating	692,582	4,979,132	0:00
282	Participating	693,123	4,978,509	0:00
283	Non-Participating	694,403	4,978,773	0:00
284	Non-Participating	692,812	4,977,723	2:38
285	Non-Participating	692,820	4,977,636	2:07
286	Participating	691,313	4,976,830	2:06
287	Non-Participating	689,844	4,976,580	6:05
288	Participating	690,305	4,973,639	1:37
289	Non-Participating	690,203	4,973,129	1:02
290	Participating	692,830	4,974,347	10:24
291	Participating	693,520	4,972,863	12:05
292	Non-Participating	692,649	4,969,610	18:04
293	Non-Participating	691,851	4,967,303	10:04
294	Non-Participating	692,665	4,967,084	26:06
295	Non-Participating	697,618	4,975,422	0:00
297	Non-Participating	701,253	4,974,308	0:00
299	Non-Participating	701,813	4,972,806	0:00
300	Non-Participating	701,946	4,971,621	0:00
301	Non-Participating	702,056	4,970,870	0:00
302	Non-Participating	702,305	4,970,792	0:00
303	Non-Participating	701,907	4,968,451	0:00
304	Non-Participating	699,056	4,968,082	0:00

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305	Non-Participating	699,214	4,969,952	1:50
306	Non-Participating	699,065	4,969,818	1:11
312	Non-Participating	694,398	4,979,727	0:00
313	Non-Participating	702,340	4,968,613	0:00
314	Non-Participating	699,535	4,965,118	0:00
315	Non-Participating	699,248	4,965,104	0:00
316	Non-Participating	699,274	4,964,989	0:00
317	Non-Participating	699,510	4,965,357	0:00
318	Non-Participating	699,184	4,965,340	0:00
319	Non-Participating	698,631	4,965,644	0:50
320	Participating	692,686	4,965,034	1:31
321	Non-Participating	683,225	4,966,963	0:03
324	Non-Participating	700,890	4,973,720	0:00
325	Non-Participating	695,248	4,976,837	4:57
326	Non-Participating	695,494	4,977,161	2:05
327	Non-Participating	699,753	4,975,983	0:00
331	Non-Participating	702,530	4,965,693	0:00
332	Non-Participating	698,214	4,964,717	0:25
333	Participating	683,349	4,965,409	0:00
334	Non-Participating	683,171	4,965,365	0:00
335	Non-Participating	683,454	4,964,615	0:00
340	Non-Participating	687,436	4,963,949	0:00
341	Non-Participating	693,591	4,963,893	8:02
487	Non-Participating	696,907	4,961,027	0:00
491	Participating	683,039	4,973,297	0:00
492	Non-Participating	702,697	4,971,146	0:00
494	Non-Participating	682,785	4,967,785	0:00
495	Non-Participating	682,366	4,967,893	0:00
496	Non-Participating	682,741	4,967,851	0:00
498	Participating	682,947	4,963,870	0:00
499	Non-Participating	694,354	4,962,560	0:28
596	Non-Participating	684,870	4,982,990	0:00
598	Non-Participating	699,800	4,962,703	0:00
681	Participating	678,753	4,971,111	0:00
682	Participating	679,475	4,970,841	0:00
683	Participating	677,625	4,978,124	0:00
684	Participating	679,116	4,978,144	0:42
685	Participating	678,281	4,980,416	0:00
686	Participating	680,799	4,982,675	0:00
687	Participating	682,005	4,981,475	0:00
688	Participating	681,368	4,980,996	0:00
690	Participating	683,254	4,979,073	17:46
691	Participating	681,474	4,977,172	13:11
692	Participating	683,177	4,978,266	25:57
693	Participating	683,042	4,977,308	2:08
694	Non-Participating	683,066	4,976,707	9:34

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Receptor Identification	Status	Easting (UTM 14)	Northing (UTM 14)	Expected Annual Shadow Flicker Hours
695	Participating	683,811	4,976,537	7:03
696	Participating	683,233	4,975,874	21:02
697	Participating	683,292	4,975,394	14:13
698	Participating	683,113	4,974,215	23:40
699	Participating	683,050	4,973,378	0:14
700	Non-Participating	684,197	4,973,476	1:39
701	Participating	682,141	4,973,482	0:00
702	Participating	681,350	4,973,209	0:00
703	Participating	683,469	4,972,089	0:00
704	Participating	684,053	4,972,124	0:00
705	Participating	683,358	4,971,312	0:00
706	Participating	680,530	4,970,175	0:00
707	Participating	681,527	4,969,395	0:00
708	Participating	681,438	4,968,478	0:00
709	Participating	681,727	4,968,780	0:00
710	Participating	683,242	4,968,751	0:00
711	Participating	683,072	4,968,840	0:00
712	Participating	686,006	4,968,526	0:10
713	Participating	687,277	4,967,856	14:13
715	Participating	687,994	4,967,739	18:09
716	Participating	689,009	4,967,501	22:28
717	Participating	689,189	4,967,555	19:42
718	Participating	686,844	4,969,130	0:00
719	Participating	685,405	4,970,407	0:00
720	Participating	686,371	4,970,494	0:00
721	Participating	688,036	4,970,732	0:00
722	Participating	687,188	4,970,836	0:00
723	Participating	687,113	4,970,889	0:00
724	Non-Participating	686,903	4,971,039	0:00
725	Non-Participating	686,879	4,971,059	0:00
726	Non-Participating	686,858	4,971,086	0:00
727	Participating	686,840	4,971,175	0:00
728	Participating	685,684	4,971,347	0:00
729	Participating	685,738	4,971,385	0:00
730	Participating	685,438	4,973,071	0:00
731	Participating	684,986	4,973,346	0:21
732	Non-Participating	688,701	4,973,465	0:14
734	Participating	688,118	4,976,155	21:50
735	Participating	686,067	4,982,710	0:00
736	Participating	688,032	4,980,926	0:00
737	Participating	689,311	4,981,492	0:00
738	Participating	686,192	4,978,291	0:00
739	Participating	692,721	4,977,888	0:28
740	Participating	693,555	4,976,821	15:10
741	Participating	693,459	4,973,767	24:03
742	Participating	692,709	4,975,986	14:11

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743	Participating	691,212	4,974,762	12:05
744	Participating	689,627	4,974,245	7:07
745	Participating	692,529	4,971,903	7:41
746	Participating	690,138	4,972,500	0:26
747	Non-Participating	690,288	4,971,428	1:17
748	Non-Participating	690,240	4,971,667	0:45
749	Non-Participating	690,160	4,971,684	0:34
750	Participating	693,991	4,970,730	8:13
751	Participating	689,816	4,968,557	1:20
752	Participating	690,566	4,968,730	23:27
753	Participating	692,928	4,967,345	12:22
754	Participating	698,403	4,974,533	23:38
755	Participating	700,129	4,973,909	0:33
756	Participating	700,246	4,967,543	0:00
757	Participating	699,333	4,967,582	0:00
758	Participating	700,599	4,973,713	0:00
759	Participating	699,387	4,972,695	1:52
760	Participating	698,926	4,971,866	0:47
761	Participating	698,874	4,971,975	1:01
762	Participating	699,187	4,971,136	1:48
763	Participating	699,090	4,970,287	1:52
764	Participating	697,449	4,971,401	9:06
765	Participating	695,958	4,970,746	14:43
766	Participating	695,570	4,969,140	3:00
767	Participating	684,839	4,976,774	18:25
768	Participating	679,946	4,974,799	8:15
769	Participating	695,981	4,962,736	1:28
770	Participating	694,456	4,964,843	21:30
771	Participating	689,468	4,966,375	25:49
772	Participating	690,353	4,965,883	2:48
773	Participating	683,128	4,966,458	0:00
775	Participating	682,308	4,965,389	0:00
778	Participating	684,792	4,968,834	0:00
779	Non-Participating	686,978	4,971,008	0:00
780	Participating	687,065	4,970,935	0:00
781	Participating	685,764	4,973,353	0:00
782	Participating	694,756	4,976,632	25:37
783	Participating	701,420	4,965,944	0:00
786	Participating	687,093	4,970,914	0:00
787	Participating	687,148	4,970,867	0:00
788	Participating	687,225	4,970,791	0:00
790	Participating	699,305	4,967,020	0:00
791	Participating	689,508	4,965,573	0:00
797	Participating	683,096	4,968,817	0:00
798	Participating	685,562	4,968,828	0:00
802	Participating	698,306	4,973,333	17:06

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803	Non-Participating	697,749	4,964,533	1:57
804	Participating	684,748	4,975,618	5:08
805	Participating	698,210	4,970,836	25:47
806	Participating	689,279	4,966,996	19:43