

MEMO

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Table 1 lists all NextEra turbines that were ranked in the 2007 and/or 2010 SRC field rankings efforts. The list is divided by those turbines that will be removed for the 2011 repowering effort (“Yes”) and those that will remain until we can repower the remaining fleet. The unproductive turbine sites, which in this case only include towers with no nacelles, are kept for the short term in anticipation of relocations. Just over half (51%) of the turbines ranked 7.5-10 will be removed by the current repowering effort.

Repower Area	Status	HRT Rankings 2007 and 2010 Combined							
		6.99	7	7.5	8	8.5	9	9.5	10
Yes	Operating Turbines	234	39	68	56	19	8	1	4
No	Operating Turbines	563	121	82	43	21	4	2	
No	Unproductive Turbine Sites (Tower only)	12	3	1		2			

Table 1

Table 2 allocates the mortality counts for the 4 focal species between the HRT rankings and the bird years. I.e. there were 24 bird mortalities for the 4 focal species during the 2006-2007 period attributed to turbines with an HRT ranking of 8.5 (in either the 2007 or 2010 SRC ranking effort). The data for the mortalities is taken from the monitoring team website for fatalities and has not been filtered (i.e. for age, distance, and such). The turbines count column is just a count of how many turbines sites per ranking and include only turbines that are in the current survey (since the mortality data is only for the current study). Note it does not mean that those sites still have operation turbines at the sites. What is demonstrated here is that the ratio of mortality/# turbines per rankings is similar for HRT rankings 7 to 9 and thus why removing a 7.5 has close to the same effort as removing a 9 ranked turbine.

Combined HRT 2007 2010	Turbine Site Count	BirdYear				Grand Total
		2005-2006	2006-2007	2007-2008	2008-2009	
6.99	1276	40	103	62	27	232
7	232	24	43	25	17	109
7.5	253	27	44	38	18	127
8	135	13	33	23	10	79
8.5	64	16	24	21	5	66
9	39	6	13	5	4	28
9.5	24	9	10	7	1	27
10	34	16	28	9	3	56
NULL	703	37	71	54	31	193
#N/A			2	1	5	8
Grand Total		188	371	245	121	925

Table 2

Table 3 shows the 4 NextEra KVS -33 turbines ranked 9-10. The third column shows during which study the mortality data was obtained from. Both turbines 207 and 208 are in the current monitoring sample so they have been search about 50 times each in the last 5 years (will be taken out during upcoming repowering). Turbines 4651 and 4650 were in the baseline study (searched only twice and no mortality was found) and not in the current monitoring group. The mortality data for those (4651 and 4650) turbines comes from WRRS, which is when a repair tech notices a fatality when working on the turbine. A KVS – 33 turbine produces 5x as much energy as a Kenetech 56-100, which constitutes a vast majority of our fleet.

<u>Structure</u>	<u>HRT Ranking</u>	<u>Study</u>	<u>Date Reported</u>	<u>SpeciesAbb</u>
207	10	WRRS	4/16/2007	GOEA
207	10	CS	10/4/2006	RTHA
207	10	CS	1/9/2008	RTHA
208	9	Baseline	1/27/2003	AMKE
4651	9.5	WRRS	10/27/1994	RTHA
4650	9.5	WRRS	2/26/2004	RTHA
4651	9.5	WRRS	9/25/2006	RTHA
4651	9.5	WRRS	10/14/2006	BUOW
4651	9.5	WRRS	11/15/2006	RTHA
4651	9.5	WRRS	1/17/2007	RTHA

Table 3