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## Memorandum

<b>Date:</b>	September 20, 2012
<b>To:</b>	Ms. Sandra Rivera Alameda County Community Development Agency 224 W Winton Avenue, Room 110 Hayward, CA 94544
<b>Cc:</b>	Michael Morrison – SRC Julie Yee – SRC Jim Estep – SRC Sue Orloff – SRC Joanna Burger – SRC Emre Ergas – NextEra Energy Resources Jim Hopper – AES Chris Dreiman – EnXco Ryan McGraw – AWI Renee Culver – NextEra Energy Energy Resources Joanie Stewart – NextEra Energy Resources
<b>From:</b>	Doug Leslie ICF Project Manager – Alameda County Avian Monitoring Team  Jesse Schwartz ICF Lead Technical Analyst
<b>Subject:</b>	<b>Draft Detailed Implementation Plan – Bird Year 2012</b>

Table 1 below presents the turbine strings proposed for inclusion in the 2012 Bird Year Detailed Implementation Plan. This Plan was constructed according to the sampling scheme outlined in the latest Study Plan prepared by ICF in consultation with the SRC and on information solicited from the power companies.

Prior to beginning the process of constructing the DIP, the Monitoring Team evaluated the possibility of removing all turbine strings that are currently part of the Flodesign study from the list of strings included in the current study design. After careful evaluation, we determined that removal of those strings from the study design would result in a significant degradation of the study design. This is primarily due to the fact that strings in the Flodesign study constitute a significant portion of the installed capacity of several BLOBs. Analysis at the BLOB level is a significant advantage of the current study design, and abandonment of the current study design at this stage in its' implementation would be ill-advised, at least in part because the 2010 bird year – which is the

bird year currently being assessed – was the first year of sampling under the new design, and thus represents our first look at the results of an approximately 40% reduction in the number of turbines sampled.

If you have questions or concerns, please contact Doug Leslie (916-835-3197; [douglas.leslie@icfi.com](mailto:douglas.leslie@icfi.com)) or Jesse Schwartz (503-525-6142; [jesse.schwartz@icfi.com](mailto:jesse.schwartz@icfi.com)). If any of the turbines selected for sampling are scheduled for shut down or removal during the current bird year, please notify us immediately.

Table 1. Turbine Strings Proposed for Inclusion in the 2012 Bird Year Detailed Implementation Plan.

<b>String ID</b>	<b>String Number</b>	<b>BLOB ID</b>	<b>Fixed Panel</b>	<b>Turbine Model</b>
67	70	11	No	Bonus
72	75	7	No	Bonus
92	95.1	19	No	Vestas
120	128	29	No	Kenetech 56-100
138	148	10	No	Kenetech 56-100
152	162	17	No	Enertech
166	180.1	9	No	Micon
325	335	13	No	Kenetech 56-100
446	465	26	No	Nordtank
503	609	24	No	Kenetech 56-100
506	612	26	No	Bonus
530	667	25	No	Kenetech 56-100
44	47	15	No	Bonus
63	66	7	No	Bonus
66	69	11	No	Bonus
94	95.3	19	No	Vestas
132	142	10	No	Kenetech 56-100
163	178.1	9	No	Micon
332	342	13	No	Kenetech 56-100
339	350	12	No	Kenetech 56-100
361	374.99	24	No	Kenetech 56-100
378	397.99	23	No	Kenetech 56-100
421	444	26	No	Bonus
450	468.1	26	No	Nordtank
25	25	20	Yes	Bonus
26	26	20	Yes	Bonus

<b>String ID</b>	<b>String Number</b>	<b>BLOB ID</b>	<b>Fixed Panel</b>	<b>Turbine Model</b>
31	34	15	Yes	Bonus
35	38	15	Yes	Bonus
37	40	15	Yes	Bonus
38	41	15	Yes	Bonus
42	45	15	Yes	Bonus
43	46	15	Yes	Bonus
46	49	11	Yes	Bonus
47	50	11	Yes	Bonus
49	52	11	Yes	Bonus
51	54	11	Yes	Bonus
56	59	11	Yes	Bonus
58	61	11	Yes	Bonus
62	65	7	Yes	Bonus
70	73	7	Yes	Bonus
76	79	7	Yes	Bonus
78	81	7	Yes	Bonus
79	82	7	Yes	Bonus
80	83	7	Yes	Bonus
81	84	7	Yes	Bonus
86	89	19	Yes	Vestas
87	90	19	Yes	Vestas
88	91	19	Yes	Vestas
89	92	19	Yes	Vestas
90	93	19	Yes	Vestas
91	94	19	Yes	Vestas
93	95.2	19	Yes	Vestas
97	100	19	Yes	Vestas
98	101	19	Yes	Vestas
106	110.99	28	Yes	Kenetech 56-100
108	112	28	Yes	Kenetech 56-100
125	135	25	Yes	Kenetech 56-100
128	138	25	Yes	Kenetech 56-100
134	144	10	Yes	Kenetech 56-100
135	145	10	Yes	Kenetech 56-100
141	151	28	Yes	Kenetech 56-100
142	152	16	Yes	Micon
143	153	16	Yes	Micon

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<b>String ID</b>	<b>String Number</b>	<b>BLOB ID</b>	<b>Fixed Panel</b>	<b>Turbine Model</b>
144	154	16	Yes	Micon
145	155	16	Yes	Micon
146	156	16	Yes	Micon
147	157	16	Yes	Micon
148	158	16	Yes	Micon
149	159	17	Yes	Enertech
150	160	17	Yes	Enertech
151	161	17	Yes	Enertech
155	168	17	Yes	Enertech
156	169	17	Yes	Enertech
157	170	17	Yes	Enertech
158	171	17	Yes	Enertech
159	172	17	Yes	Enertech
160	174	17	Yes	Enertech
161	175	17	Yes	Enertech
162	176	17	Yes	Enertech
164	178.2	9	Yes	Micon
165	179	9	Yes	Micon
169	181.2	9	Yes	Micon
170	182.1	9	Yes	Micon
171	182.2	9	Yes	Micon
172	183.1	9	Yes	Micon
174	184	9	Yes	Micon
175	185	22	Yes	Micon
176	186	22	Yes	Micon
177	187	22	Yes	Micon
179	189	22	Yes	Micon
180	190	22	Yes	Micon
181	191	22	Yes	Micon
182	192	22	Yes	Micon
245	253	8	Yes	Kenetech 56-100
249	257	10	Yes	Kenetech 56-100
258	267	14	Yes	Kenetech 56-100
304	312.1	5	Yes	Kenetech 56-100
313	323	5	Yes	Kenetech 56-100
316	326	6	Yes	Kenetech 56-100
335	345	13	Yes	Kenetech 56-100

<b>String ID</b>	<b>String Number</b>	<b>BLOB ID</b>	<b>Fixed Panel</b>	<b>Turbine Model</b>
338	348.99	12	Yes	Kenetech 56-100
354	366	25	Yes	Kenetech 56-100
358	370	24	Yes	Kenetech 56-100
359	371	24	Yes	Kenetech 56-100
367	383.99	24	Yes	Kenetech 56-100
375	394	23	Yes	Kenetech 56-100
386	407	23	Yes	Kenetech 56-100
394	415	23	Yes	Kenetech 56-100
395	416	23	Yes	Kenetech 56-100
397	419.99	23	Yes	Kenetech 56-100
398	421	23	Yes	Kenetech 56-100
409	432	26	Yes	Nordtank
410	433	26	Yes	Nordtank
411	434	26	Yes	Nordtank
412	435	26	Yes	Nordtank
413	436	26	Yes	Nordtank
414	437	26	Yes	Nordtank
416	439	26	Yes	Nordtank
418	441	26	Yes	Bonus
428	451	26	Yes	Nordtank
429	452	26	Yes	Nordtank
430	453	26	Yes	Nordtank
433	456	26	Yes	Nordtank
435	458.1	26	Yes	Nordtank
436	458.2	26	Yes	Nordtank
438	460.1	26	Yes	Bonus
445	464.3	26	Yes	Bonus
451	468.2	26	Yes	Bonus
452	469	26	Yes	Nordtank
458	473	26	Yes	Nordtank
459	474	26	Yes	Nordtank
460	475	26	Yes	Nordtank
464	479	26	Yes	Bonus
486	566	8	Yes	Kenetech 56-100
488	570	8	Yes	Kenetech 56-100
496	582	10	Yes	Kenetech 56-100
499	596	15	Yes	Bonus

<b>String ID</b>	<b>String Number</b>	<b>BLOB ID</b>	<b>Fixed Panel</b>	<b>Turbine Model</b>
500	597	18	Yes	Kenetech 56-100
501	598	18	Yes	Kenetech 56-100
505	611	24	Yes	Kenetech 56-100
515	628	25	Yes	Kenetech 56-100
517	630	23	Yes	Kenetech 56-100
519	642	27	Yes	Kenetech 56-100
520	643	27	Yes	Kenetech 56-100
522	648.99	27	Yes	Kenetech 56-100
524	653	29	Yes	Kenetech 56-100
528	660	29	Yes	Kenetech 56-100
532	671	29	Yes	Kenetech 56-100
534	674	23	Yes	Kenetech 56-100
536	680	12	Yes	Kenetech 56-100
598	5043	8	Yes	Kenetech 56-100
656	5104	27	Yes	Kenetech 56-100
657	5105	29	Yes	Kenetech 56-100
662	5110	28	Yes	Kenetech 56-100
168	181.1	9	No	Micon
34	37	15	No	Bonus
140	150	28	No	Kenetech 56-100
246	254	8	No	Kenetech 56-100
321	331	6	No	Kenetech 56-100
388	409	23	No	Kenetech 56-100
614	5059.99	14	No	Kenetech 56-100
629	5076	18	No	Kenetech 56-100
646	5094	27	No	Kenetech 56-100
126	136	25	No	Kenetech 56-100
264	273	14	No	Kenetech 56-100
589	5034	8	No	Kenetech 56-100
628	5075	18	No	Kenetech 56-100
648	5096	27	No	Kenetech 56-100
658	5106	29	No	Kenetech 56-100