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To: "Kaly" <nxx@nrc.gov>
Date: 11/4/03 10:44AM
Subject: W3 CEDM Nozzle Freespan Lengths

Kaly,

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Docket # 050-382
Waterford 3.

Attached is a table that documents the actual as-built freespan lengths of the Waterford 3 CEDM nozzles. These lengths were determined from the UT scan data. In Entergy letter CNRO-2003-00057, dated 10/24/03, Entergy responded to an NRC question pertaining to reanalysis criterion. In that letter, Entergy provided the amount of freespan length, designated as "minimum propagation length", required for each nozzle group. A nozzle with less freespan length than the designated minimum propagation length would require augmented inspection. As can be seen from the attached table, the actual as-built freespan lengths of the CEDM nozzles exceed the minimum propagation lengths. Therefore, no augmented inspections of the CEDM nozzles were required. Please let me know if you have any questions about this information.

Thanks!

Guy

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Low Hillside			
Nozzle	Head Angle (degrees)	Axial Weld Ht. (inches)	Freespan length (inches)
1	0.0	0.920	1.000
2	7.8	0.880	1.080
3	7.8	1.400	0.920
4	11.0	1.200	1.040
5	11.0	1.480	1.000
6	11.0	1.320	1.080
7	11.0	0.960	1.040
8	15.6	1.600	0.840
9	15.6	1.280	1.000
10	15.6	1.160	1.000
11	15.6	1.160	0.760
12	17.5	1.680	0.720
13	17.5	1.320	1.080
14	17.5	1.480	1.080
15	17.5	0.920	1.160
16	17.5	1.160	1.080
17	17.5	1.400	0.880
18	17.5	1.480	0.960
19	17.5	0.920	1.080
20	22.4	1.600	0.720
21	22.4	1.520	0.880
22	22.4	1.480	0.840
23	22.4	1.400	0.880
24	23.9	1.240	0.880
25	23.9	1.560	0.880
26	23.9	1.720	0.720
27	23.9	1.440	0.800
28	25.2	1.320	0.840
29	25.2	1.560	0.760
30	25.2	1.520	0.800
31	25.2	1.400	0.840
32	25.2	1.560	0.880
33	25.2	1.320	1.080
34	25.2	1.640	0.760
35	25.2	1.320	0.680
36	29.1	1.480	0.720
37	29.1	1.600	0.800
38	29.1	1.640	0.720
39	29.1	1.480	0.760
40	29.1	1.320	0.760
41	29.1	1.480	0.960

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42	29.1	1.240	0.920
43	29.1	1.680	0.680
44	32.7	1.520	0.760
45	32.7	1.480	0.840
46	32.7	1.720	0.680
47	32.7	1.560	0.680
48	33.8	1.600	0.680
49	33.8	1.560	0.720
50	33.8	1.440	0.880
51	33.8	1.360	0.720
52	33.8	1.520	0.840
53	33.8	1.240	0.880
54	33.8	1.860	0.300
55	33.8	1.600	0.600
56	34.9	1.680	0.560
57	34.9	1.680	0.760
58	34.9	1.760	0.720
59	34.9	1.280	0.840
60	37.1	1.680	0.600
61	37.1	1.520	0.680
62	37.1	1.560	0.840
63	37.1	1.720	0.720
64	37.1	1.680	0.520
65	37.1	1.640	0.560
66	37.1	1.760	0.440
67	37.1	1.600	0.480
68	42.4	1.840	0.560
69	42.4	1.640	0.600
70	42.4	1.960	0.560
71	42.4	1.840	0.760
72	42.4	1.840	0.480
73	42.4	2.000	0.520
74	42.4	2.200	0.360
75	42.4	2.000	0.560
76	42.4	1.520	0.600
77	42.4	1.560	0.560
78	42.4	1.920	0.440
79	42.4	2.000	0.280
80	43.4	1.880	0.520
81	43.4	1.440	0.840
82	43.4	1.800	0.560
83	43.4	1.520	0.840
84	43.4	1.800	0.640
85	43.4	1.800	0.560

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86	43.4	1.960	0.280
87	43.4	2.200	0.240
88	49.7	2.080	0.520
89	49.7	2.120	0.320
90	49.7	2.320	0.520
91	49.7	2.240	0.320