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SUBJECT: Submits action plan to resolve Westinghouse Alloy 600 thermally treated SG mechanical plug issue.

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WISCONSIN PUBLIC SERVICE CORPORATION

600 North Adams • P.O. Box 19002 • Green Bay, WI 54307-9002

March 1, 1995

U.S. Nuclear Regulatory Commission
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Washington, D.C. 20555

Ladies/Gentlemen:

Docket 50-305
Operating License DPR-43
Kewaunee Nuclear Power Plant
Action Plan For Alloy 600 Steam Generator Mechanical Plugs

- References:
- 1) Letter from CA Schrock (WPSC) to Document Control Desk (NRC), dated January 26, 1995.
 - 2) WCAP-12245 Addendum 3, revision 3 to Steam Generator Tube Plug Integrity Summary Report, received January 27, 1995.

The purpose of this letter is to submit Wisconsin Public Service Corporation's (WPSC) action plan to resolve the Westinghouse Alloy 600 thermally treated (TT) steam generator (SG) mechanical plug issue. In reference 1 we provided our Justification for Continued Operation (JCO) and a commitment to provide an action plan to the NRC staff after receipt and review of WCAP-12245 Addendum 3, revision 3 (reference 2).

At present, there are a total of 156 Westinghouse Alloy 600 TT plugs remaining in service in the Kewaunee Nuclear Power Plant (KNPP) SGs. Of this total population, 29 are in the hot legs and 127 are in the cold legs. Additional information on these plugs including their location in the SG, year of installation and heat number is provided on Table 1 for the hot leg plugs and Table 2 for the cold leg plugs. None of these plugs are present in tubes where plug top release could lead to tube perforation since the KNPP SGs are a partial depth roll expansion and as such do not possess the requisite conditions for tube perforation as a result of plug top release.

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March 1, 1995
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The revised corrosion algorithm contained in reference 2, impacts our action plan previously developed in response to NRC IE Bulletin 89-01 to address these remaining Alloy 600 TT plugs. The revised action dates for each of the affected plugs is provided on the last column of Tables 1 and 2 under the heading 'YEAR TO REPAIR OR REPLACE.'

Based on the information contained in reference 2, our revised action plan is to replace the remaining 29 hot leg plugs during our next refueling outage and assess necessary actions for the cold leg plugs on, or prior to the date listed on Table 2. Our next refueling outage is scheduled to start on April 1, 1995. It should be noted that the earliest date that action will be required for the cold leg plugs is 2018 which exceeds the current licensed life of the KNPP.

If you have any questions or need additional information please contact a member of my staff.

Sincerely,



M. L. Marchi
Manager-Nuclear Engineering

SLB/jmf

Attach.

cc - US NRC Region III
US NRC Senior Resident Inspector

ATTACHMENT

To

Letter from M. L. Marchi (WPSC)

To

Document Control Desk

Dated

March 1, 1995

Table 1 - Hot Leg Inconel 600 Plugs

Table 2 - Cold Leg Inconel 600 Plugs

TABLE 1**HOT LEG INCONEL 600 PLUGS THAT HAVE NOT BEEN
REPAIRED OR REMOVED**

	SG	ROW	COL	INSTALL YEAR	HEAT	YEAR TO REPAIR OR REPLACE
1	B	13	3	1983	NX2387	1993
2	B	37	41	1983	NX2387	1993
1	B	13	3	1983	NX2387	1993
2	B	37	41	1983	NX2387	1993
3	B	37	55	1983	NX2387	1993
4	B	41	55	1983	NX2387	1993
5	B	42	55	1983	NX2387	1993
6	B	43	55	1983	NX2387	1993
7	B	41	57	1983	NX2387	1993
8	B	41	58	1983	NX2387	1993
9	B	37	60	1983	NX2387	1993
10	B	37	63	1983	NX2387	1993
11	B	1	51	1985	NX2387	1995
12	B	8	62	1985	NX2387	1995
13	B	39	64	1985	NX2387	1995
14	A	2	5	1983	NX2205	1993
15	A	2	6	1983	NX2205	1993
16	A	2	14	1983	NX2205	1993
17	A	1	19	1983	NX2205	1993
18	A	1	22	1983	NX2205	1993
19	A	1	23	1983	NX2205	1993
20	A	1	30	1983	NX2205	1993
21	A	1	41	1983	NX2205	1993
22	A	1	46	1983	NX2205	1993
23	A	23	36	1984	NX2387	1994
24	A	5	1	1985	NX2387	1995
25	A	4	2	1985	NX2387	1995
26	A	7	10	1985	NX2387	1995
27	A	6	12	1985	NX2387	1995
28	A	1	28	1985	NX2387	1995
29	A	11	40	1985	NX2387	1995

TABLE 2

**COLD LEG INCONEL 600 PLUGS THAT HAVE NOT BEEN
REPAIRED OR REMOVED**

SG	ROW	COL	INSTALL YEAR	HEAT	YEAR TO REPAIR OR REPLACE	
1	A	1	1	1986	NX3962	2018
2	A	8	9	1986	NX3962	2018
3	A	18	10	1986	NX3962	2018
4	A	1	14	1986	NX3962	2018
5	A	43	32	1986	NX3962	2018
6	A	43	33	1986	NX3962	2018
7	A	44	33	1986	NX3962	2018
8	A	1	45	1986	NX3962	2018
9	A	7	55	1986	NX3962	2018
10	A	13	63	1986	NX3962	2018
11	A	31	68	1986	NX3962	2018
12	B	1	25	1986	NX3962	2018
13	B	16	26	1986	NX3962	2018
14	B	1	41	1986	NX3962	2018
15	B	1	42	1986	NX3962	2018
16	B	15	49	1986	NX3962	2018
17	A	5	2	1987	NX3962	2019
18	A	9	8	1987	NX3962	2019
19	A	5	9	1987	NX3962	2019
20	A	24	9	1987	NX3962	2019
21	A	2	12	1987	NX3962	2019
22	A	25	13	1987	NX3962	2019
23	A	1	24	1987	NX3962	2019
24	A	2	24	1987	NX3962	2019
25	A	37	24	1987	NX3962	2019
26	A	2	32	1987	NX3962	2019
27	A	27	81	1987	NX3962	2019
28	A	7	90	1987	NX3962	2019
29	B	1	31	1987	NX3962	2019
30	B	1	68	1987	NX3962	2019
31	A	1	3	1988	NX4523	2020
32	A	1	4	1988	NX4523	2020
33	A	5	13	1988	NX4523	2020
34	A	6	16	1988	NX4523	2020
35	A	35	18	1988	NX4523	2020
36	A	34	20	1988	NX4523	2020
37	A	1	27	1988	NX4523	2020
38	A	1	36	1988	NX4523	2020
39	A	1	43	1988	NX4523	2020
40	A	20	84	1988	NX4523	2020
41	A	10	89	1988	NX4523	2020

TABLE 2

**COLD LEG INCONEL 600 PLUGS THAT HAVE NOT BEEN
REPAIRED OR REMOVED**

SG	ROW	COL	INSTALL YEAR	HEAT	YEAR TO REPAIR OR REPLACE	
42	A	4	92	1988	NX4523	2020
43	A	4	93	1988	NX4523	2020
44	B	1	2	1988	NX4523	2020
45	B	25	11	1988	NX4523	2020
46	B	31	13	1988	NX4523	2020
47	B	1	24	1988	NX4523	2020
48	B	1	27	1988	NX4523	2020
49	B	1	33	1988	NX4523	2020
50	B	1	36	1988	NX4523	2020
51	B	1	43	1988	NX4523	2020
52	B	43	43	1988	NX4523	2020
53	B	1	44	1988	NX4523	2020
54	B	1	45	1988	NX4523	2020
55	B	1	49	1988	NX4523	2020
56	B	1	52	1988	NX4523	2020
57	B	1	53	1988	NX4523	2020
58	B	1	57	1988	NX4523	2020
59	B	29	59	1988	NX4523	2020
60	B	27	63	1988	NX4523	2020
61	B	31	76	1988	NX4523	2020
62	B	1	82	1988	NX4523	2020
63	A	12	4	1989	NX6323	2021
64	A	2	11	1989	NX6323	2021
65	A	3	14	1989	NX6323	2021
66	A	5	17	1989	NX6323	2021
67	A	9	19	1989	NX6323	2021
68	A	5	21	1989	NX6323	2021
69	A	1	25	1989	NX6323	2021
70	A	1	32	1989	NX6323	2021
71	A	1	48	1989	NX6323	2021
72	A	1	53	1989	NX6323	2021
73	A	34	63	1989	NX6323	2021
74	A	36	76	1989	NX6323	2021
75	A	23	83	1989	NX6323	2021
76	B	1	7	1989	NX6323	2021
77	B	1	8	1989	NX6323	2021
78	B	1	10	1989	NX6323	2021
79	B	1	11	1989	NX6323	2021
80	B	33	20	1989	NX6323	2021
81	B	33	22	1989	NX6323	2021
82	B	1	30	1989	NX6323	2021

TABLE 2

**COLD LEG INCONEL 600 PLUGS THAT HAVE NOT BEEN
REPAIRED OR REMOVED**

	SG	ROW	COL	INSTALL YEAR	HEAT	YEAR TO REPAIR OR REPLACE
83	B	1	32	1989	NX6323	2021
84	B	1	34	1989	NX6323	2021
85	B	1	35	1989	NX6323	2021
86	B	1	40	1989	NX6323	2021
87	B	1	47	1989	NX6323	2021
88	B	1	58	1989	NX6323	2021
89	B	1	59	1989	NX6323	2021
90	B	1	62	1989	NX6323	2021
91	B	1	65	1989	NX6323	2021
92	B	1	66	1989	NX6323	2021
93	B	1	67	1989	NX6323	2021
94	B	1	69	1989	NX6323	2021
95	B	1	70	1989	NX6323	2021
96	B	33	73	1989	NX6323	2021
97	B	33	76	1989	NX6323	2021
98	B	1	78	1989	NX6323	2021
99	A	2	5	1983	NX2205	2136
100	A	2	6	1983	NX2205	2136
101	A	2	14	1983	NX2205	2136
102	A	1	19	1983	NX2205	2136
103	A	1	22	1983	NX2205	2136
104	A	1	23	1983	NX2205	2136
105	A	1	30	1983	NX2205	2136
106	A	1	41	1983	NX2205	2136
107	A	1	46	1983	NX2205	2136
108	B	13	3	1983	NX2205	2136
109	B	37	41	1983	NX2205	2136
110	B	37	55	1983	NX2205	2136
111	B	41	55	1983	NX2205	2136
112	B	42	55	1983	NX2205	2136
113	B	43	55	1983	NX2205	2136
114	B	41	57	1983	NX2205	2136
115	B	41	58	1983	NX2205	2136
116	B	37	60	1983	NX2205	2136
117	B	37	63	1983	NX2205	2136
118	A	5	1	1985	NX2387	2138
119	A	4	2	1985	NX2387	2138
120	A	7	10	1985	NX2387	2138
121	A	6	12	1985	NX2387	2138
122	A	1	28	1985	NX2387	2138
123	A	23	36	1985	NX2387	2138

TABLE 2

COLD LEG INCONEL 600 PLUGS THAT HAVE NOT BEEN
REPAIRED OR REMOVED

SG	ROW	COL	INSTALL YEAR	HEAT	YEAR TO REPAIR OR REPLACE	
124	A	11	40	1985	NX2387	2138
125	B	1	51	1985	NX2387	2138
126	B	8	62	1985	NX2387	2138
127	B	39	64	1985	NX2387	2138