

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A

IN-SERVICE MECHANICAL SLEEVE LIST - 03H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	16	129	SLV @ 03H	N/A	CSV @ 03H	57	0.61	0.99	0
PAL1A	17	44	SLV @ 03H	N/A	PSV @ 03H	58	N/A	N/A	0
PAL1A	17	106	SLV @ 03H	N/A	PSV @ 03H	59	N/A	N/A	0
PAL1A	17	110	SLV @ 03H	N/A	PSV @ 03H	60	N/A	N/A	0
PAL1A	17	112	SLV @ 03H	N/A	PSV @ 03H	61	N/A	N/A	0
PAL1A	17	114	SLV @ 03H	N/A	PSV @ 03H	62	N/A	N/A	0
PAL1A	17	118	SLV @ 03H	N/A	PSV @ 03H	63	N/A	N/A	0
PAL1A	17	120	SLV @ 03H	N/A	PSV @ 03H	64	N/A	N/A	0
PAL1A	17	126	SLV @ 03H	N/A	PSV @ 03H	65	N/A	N/A	0
PAL1A	17	132	SLV @ 03H	N/A	PSV @ 03H	66	N/A	N/A	0
PAL1A	17	150	SLV @ 03H	N/A	PSV @ 03H	67	N/A	N/A	0
PAL1A	18	37	SLV @ 03H	N/A	PSV @ 03H	68	N/A	N/A	0
PAL1A	18	47	SLV @ 03H	N/A	PSV @ 03H	69	N/A	N/A	0
PAL1A	18	105	SLV @ 03H	N/A	PSV @ 03H	70	N/A	N/A	0
PAL1A	18	117	SLV @ 03H	N/A	PSV @ 03H	71	N/A	N/A	0
PAL1A	18	121	SLV @ 03H	N/A	CSV @ 03H	72	0.43	0.56	0
PAL1A	18	123	SLV @ 03H	N/A	PSV @ 03H	73	N/A	N/A	0
PAL1A	18	129	SLV @ 03H	N/A	CSV @ 03H	74	-0.13	0.96	0
PAL1A	18	135	SLV @ 03H	N/A	PSV @ 03H	75	N/A	N/A	0
PAL1A	19	44	SLV @ 03H	N/A	PSV @ 03H	76	N/A	N/A	0
PAL1A	19	46	SLV @ 03H	N/A	PSV @ 03H	77	N/A	N/A	0
PAL1A	19	62	SLV @ 03H	N/A	CSV @ 03H	78	-0.93	-0.77	0
PAL1A	19	106	SLV @ 03H	N/A	PSV @ 03H	79	N/A	N/A	0
PAL1A	19	112	SLV @ 03H	N/A	PSV @ 03H	80	N/A	N/A	0
PAL1A	19	114	SLV @ 03H	N/A	PSV @ 03H	81	N/A	N/A	0
PAL1A	19	120	SLV @ 03H	N/A	PSV @ 03H	82	N/A	N/A	0
PAL1A	19	126	SLV @ 03H	N/A	PSV @ 03H	83	N/A	N/A	0
PAL1A	19	128	SLV @ 03H	N/A	CSV @ 03H	84	0.69	1.01	0

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S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	19	148	SLV @ 03H	N/A	PSV @ 03H	85	N/A	N/A	0
PAL1A	20	15	SLV @ 03H	N/A	PSV @ 03H	86	N/A	N/A	0
PAL1A	21	102	SLV @ 03H	N/A	PSV @ 03H	87	N/A	N/A	0
PAL1A	21	104	SLV @ 03H	N/A	CSV @ 03H	88	-0.91	-0.75	0
PAL1A	21	110	SLV @ 03H	N/A	PSV @ 03H	89	N/A	N/A	0
PAL1A	21	118	SLV @ 03H	N/A	PSV @ 03H	90	N/A	N/A	0
PAL1A	22	61	SLV @ 03H	N/A	CSV @ 03H	91	0.29	0.64	0
PAL1A	22	105	SLV @ 03H	N/A	PSV @ 03H	92	N/A	N/A	0
PAL1A	22	107	SLV @ 03H	N/A	PSV @ 03H	93	N/A	N/A	0
PAL1A	23	50	SLV @ 03H	N/A	PSV @ 03H	94	N/A	N/A	0
PAL1A	23	116	SLV @ 03H	N/A	PSV @ 03H	95	N/A	N/A	0
PAL1A	23	122	SLV @ 03H	N/A	PSV @ 03H	96	N/A	N/A	0
PAL1A	23	132	SLV @ 03H	N/A	PSV @ 03H	97	N/A	N/A	0
PAL1A	23	150	SLV @ 03H	N/A	PSV @ 03H	98	N/A	N/A	0
PAL1A	24	47	SLV @ 03H	N/A	PSV @ 03H	99	N/A	N/A	0
PAL1A	24	133	SLV @ 03H	N/A	PSV @ 03H	100	N/A	N/A	0
PAL1A	24	159	SLV @ 03H	N/A	PSV @ 03H	101	N/A	N/A	0
PAL1A	25	102	SLV @ 03H	N/A	CSV @ 03H	102	0.40	0.59	0
PAL1A	25	128	SLV @ 03H	N/A	PSV @ 03H	103	N/A	N/A	0
PAL1A	25	140	SLV @ 03H	N/A	PSV @ 03H	104	N/A	N/A	0
PAL1A	25	154	SLV @ 03H	N/A	PSV @ 03H	105	N/A	N/A	0
PAL1A	26	117	SLV @ 03H	N/A	PSV @ 03H	106	N/A	N/A	0
PAL1A	26	139	SLV @ 03H	N/A	PSV @ 03H	107	N/A	N/A	0
PAL1A	27	46	SLV @ 03H	N/A	PSV @ 03H	108	N/A	N/A	0
PAL1A	27	62	SLV @ 03H	N/A	CSV @ 03H	109	-0.13	0.29	0
PAL1A	27	104	SLV @ 03H	N/A	CSV @ 03H	110	-0.03	0.96	0
PAL1A	27	110	SLV @ 03H	N/A	PSV @ 03H	111	N/A	N/A	0
PAL1A	27	114	SLV @ 03H	N/A	PSV @ 03H	112	N/A	N/A	0

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S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	27	134	SLV @ 03H	N/A	PSV @ 03H	113	N/A	N/A	0
PAL1A	27	152	SLV @ 03H	N/A	PSV @ 03H	114	N/A	N/A	0
PAL1A	28	55	SLV @ 03H	N/A	PSV @ 03H	115	N/A	N/A	0
PAL1A	28	63	SLV @ 03H	N/A	PSV @ 03H	116	N/A	N/A	0
PAL1A	28	105	SLV @ 03H	N/A	PSV @ 03H	117	N/A	N/A	0
PAL1A	29	28	SLV @ 03H	N/A	PSV @ 03H	118	N/A	N/A	0
PAL1A	29	52	SLV @ 03H	N/A	PSV @ 03H	119	N/A	N/A	0
PAL1A	29	102	SLV @ 03H	N/A	CSV @ 03H	120	-1.04	1.01	0
PAL1A	29	104	SLV @ 03H	N/A	PSV @ 03H	121	N/A	N/A	0
PAL1A	29	106	SLV @ 03H	N/A	PSV @ 03H	122	N/A	N/A	0
PAL1A	29	130	SLV @ 03H	N/A	PSV @ 03H	123	N/A	N/A	0
PAL1A	29	152	SLV @ 03H	N/A	PSV @ 03H	124	N/A	N/A	0
PAL1A	31	54	SLV @ 03H	N/A	PSV @ 03H	125	N/A	N/A	0
PAL1A	32	103	SLV @ 03H	N/A	PSV @ 03H	126	N/A	N/A	0
PAL1A	32	105	SLV @ 03H	N/A	PSV @ 03H	127	N/A	N/A	0
PAL1A	32	107	SLV @ 03H	N/A	PSV @ 03H	128	N/A	N/A	0
PAL1A	32	113	SLV @ 03H	N/A	PSV @ 03H	129	N/A	N/A	0
PAL1A	32	155	SLV @ 03H	N/A	PSV @ 03H	130	N/A	N/A	0
PAL1A	33	16	SLV @ 03H	N/A	PSV @ 03H	131	N/A	N/A	0
PAL1A	33	26	SLV @ 03H	N/A	PSV @ 03H	132	N/A	N/A	0
PAL1A	33	56	SLV @ 03H	N/A	PSV @ 03H	133	N/A	N/A	0
PAL1A	33	106	SLV @ 03H	N/A	CSV @ 03H	134	0.24	0.99	0
PAL1A	33	108	SLV @ 03H	N/A	PSV @ 03H	135	N/A	N/A	0
PAL1A	33	110	SLV @ 03H	N/A	PSV @ 03H	136	N/A	N/A	0
PAL1A	33	112	SLV @ 03H	N/A	CSV @ 03H	137	0.40	0.96	0
PAL1A	33	146	SLV @ 03H	N/A	PSV @ 03H	138	N/A	N/A	0
PAL1A	34	23	SLV @ 03H	N/A	PSV @ 03H	139	N/A	N/A	0
PAL1A	34	59	SLV @ 03H	N/A	PSV @ 03H	140	N/A	N/A	0

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S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	35	58	SLV @ 03H	N/A	PSV @ 03H	141	N/A	N/A	0
PAL1A	35	106	SLV @ 03H	N/A	PSV @ 03H	142	N/A	N/A	0
PAL1A	36	59	SLV @ 03H	N/A	PSV @ 03H	143	N/A	N/A	0
PAL1A	36	103	SLV @ 03H	N/A	PSV @ 03H	144	N/A	N/A	0
PAL1A	36	105	SLV @ 03H	N/A	PSV @ 03H	145	N/A	N/A	0
PAL1A	36	111	SLV @ 03H	N/A	PSV @ 03H	146	N/A	N/A	0
PAL1A	37	106	SLV @ 03H	N/A	PSV @ 03H	147	N/A	N/A	0
PAL1A	37	116	SLV @ 03H	N/A	PSV @ 03H	148	N/A	N/A	0
PAL1A	38	57	SLV @ 03H	N/A	PSV @ 03H	149	N/A	N/A	0
PAL1A	38	109	SLV @ 03H	N/A	CSV @ 03H	150	-0.40	-0.08	0
PAL1A	38	137	SLV @ 03H	N/A	PSV @ 03H	151	N/A	N/A	0
PAL1A	39	60	SLV @ 03H	N/A	PSV @ 03H	152	N/A	N/A	0
PAL1A	39	108	SLV @ 03H	N/A	PSV @ 03H	153	N/A	N/A	0
PAL1A	39	110	SLV @ 03H	N/A	CSV @ 03H	154	-0.21	-0.08	0
PAL1A	39	120	SLV @ 03H	N/A	PSV @ 03H	155	N/A	N/A	0
PAL1A	39	122	SLV @ 03H	N/A	PSV @ 03H	156	N/A	N/A	0
PAL1A	40	129	SLV @ 03H	N/A	PSV @ 03H	157	N/A	N/A	0
PAL1A	43	112	SLV @ 03H	N/A	PSV @ 03H	158	N/A	N/A	0
PAL1A	44	59	SLV @ 03H	N/A	PSV @ 03H	159	N/A	N/A	0
PAL1A	44	99	SLV @ 03H	N/A	PSV @ 03H	160	N/A	N/A	0
PAL1A	44	105	SLV @ 03H	N/A	CSV @ 03H	161	-0.43	0.75	0
PAL1A	45	58	SLV @ 03H	N/A	PSV @ 03H	162	N/A	N/A	0
PAL1A	45	104	SLV @ 03H	N/A	PSV @ 03H	163	N/A	N/A	0
PAL1A	45	158	SLV @ 03H	N/A	PSV @ 03H	164	N/A	N/A	0
PAL1A	46	35	SLV @ 03H	N/A	PSV @ 03H	165	N/A	N/A	0
PAL1A	46	59	SLV @ 03H	N/A	PSV @ 03H	166	N/A	N/A	0
PAL1A	46	67	SLV @ 03H	N/A	PSV @ 03H	167	N/A	N/A	0
PAL1A	46	111	SLV @ 03H	N/A	PSV @ 03H	168	N/A	N/A	0

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S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	46	121	SLV @ 03H	N/A	PSV @ 03H	169	N/A	N/A	0
PAL1A	46	125	SLV @ 03H	N/A	PSV @ 03H	170	N/A	N/A	0
PAL1A	46	145	SLV @ 03H	N/A	CSV @ 03H	171	0.43	0.93	0
PAL1A	47	48	SLV @ 03H	N/A	PSV @ 03H	172	N/A	N/A	0
PAL1A	47	62	SLV @ 03H	N/A	PSV @ 03H	173	N/A	N/A	0
PAL1A	47	108	SLV @ 03H	N/A	PSV @ 03H	174	N/A	N/A	0
PAL1A	48	45	SLV @ 03H	N/A	PSV @ 03H	175	N/A	N/A	0
PAL1A	48	69	SLV @ 03H	N/A	PSV @ 03H	176	N/A	N/A	0
PAL1A	48	105	SLV @ 03H	N/A	PSV @ 03H	177	N/A	N/A	0
PAL1A	48	113	SLV @ 03H	N/A	PSV @ 03H	178	N/A	N/A	0
PAL1A	49	100	SLV @ 03H	N/A	PSV @ 03H	179	N/A	N/A	0
PAL1A	49	102	SLV @ 03H	N/A	PSV @ 03H	180	N/A	N/A	0
PAL1A	49	108	SLV @ 03H	N/A	PSV @ 03H	181	N/A	N/A	0
PAL1A	49	110	SLV @ 03H	N/A	CSV @ 03H	182	-1.01	-0.69	0
PAL1A	50	99	SLV @ 03H	N/A	PSV @ 03H	183	N/A	N/A	0
PAL1A	50	101	SLV @ 03H	N/A	PSV @ 03H	184	N/A	N/A	0
PAL1A	50	113	SLV @ 03H	N/A	PSV @ 03H	185	N/A	N/A	0
PAL1A	52	97	SLV @ 03H	N/A	PSV @ 03H	186	N/A	N/A	0
PAL1A	56	85	SLV @ 03H	N/A	CSV @ 03H	187	0.24	0.77	0
PAL1A	56	111	SLV @ 03H	N/A	PSV @ 03H	188	N/A	N/A	0
PAL1A	57	52	SLV @ 03H	N/A	PSV @ 03H	189	N/A	N/A	0
PAL1A	57	68	SLV @ 03H	N/A	PSV @ 03H	190	N/A	N/A	0
PAL1A	57	90	SLV @ 03H	N/A	PSV @ 03H	191	N/A	N/A	0
PAL1A	57	112	SLV @ 03H	N/A	PSV @ 03H	192	N/A	N/A	0
PAL1A	57	134	SLV @ 03H	N/A	PSV @ 03H	193	N/A	N/A	0
PAL1A	58	69	SLV @ 03H	N/A	PSV @ 03H	194	N/A	N/A	0
PAL1A	58	101	SLV @ 03H	N/A	PSV @ 03H	195	N/A	N/A	0
PAL1A	60	91	SLV @ 03H	N/A	PSV @ 03H	196	N/A	N/A	0

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S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	60	93	SLV @ 03H	N/A	PSV @ 03H	197	N/A	N/A	0
PAL1A	60	95	SLV @ 03H	N/A	PSV @ 03H	198	N/A	N/A	0
PAL1A	60	97	SLV @ 03H	N/A	PSV @ 03H	199	N/A	N/A	0
PAL1A	61	106	SLV @ 03H	N/A	PSV @ 03H	200	N/A	N/A	0
PAL1A	61	110	SLV @ 03H	N/A	PSV @ 03H	201	N/A	N/A	0
PAL1A	61	118	SLV @ 03H	N/A	PSV @ 03H	202	N/A	N/A	0
PAL1A	63	38	SLV @ 03H	N/A	PSV @ 03H	203	N/A	N/A	0
PAL1A	63	48	SLV @ 03H	N/A	PSV @ 03H	204	N/A	N/A	0
PAL1A	63	86	SLV @ 03H	N/A	PSV @ 03H	205	N/A	N/A	0
PAL1A	63	90	SLV @ 03H	N/A	PSV @ 03H	206	N/A	N/A	0
PAL1A	64	93	SLV @ 03H	N/A	PSV @ 03H	207	N/A	N/A	0
PAL1A	64	95	SLV @ 03H	N/A	PSV @ 03H	208	N/A	N/A	0
PAL1A	65	114	SLV @ 03H	N/A	PSV @ 03H	209	N/A	N/A	0
PAL1A	66	77	SLV @ 03H	N/A	PSV @ 03H	210	N/A	N/A	0
PAL1A	66	95	SLV @ 03H	N/A	PSV @ 03H	211	N/A	N/A	0
PAL1A	67	88	SLV @ 03H	N/A	PSV @ 03H	212	N/A	N/A	0
PAL1A	67	96	SLV @ 03H	N/A	PSV @ 03H	213	N/A	N/A	0
PAL1A	68	83	SLV @ 03H	N/A	PSV @ 03H	214	N/A	N/A	0
PAL1A	68	95	SLV @ 03H	N/A	PSV @ 03H	215	N/A	N/A	0
PAL1A	69	62	SLV @ 03H	N/A	PSV @ 03H	216	N/A	N/A	0
PAL1A	69	78	SLV @ 03H	N/A	PSV @ 03H	217	N/A	N/A	0
PAL1A	69	86	SLV @ 03H	N/A	PSV @ 03H	218	N/A	N/A	0
PAL1A	69	88	SLV @ 03H	N/A	PSV @ 03H	219	N/A	N/A	0
PAL1A	69	90	SLV @ 03H	N/A	PSV @ 03H	220	N/A	N/A	0
PAL1A	69	92	SLV @ 03H	N/A	PSV @ 03H	221	N/A	N/A	0
PAL1A	69	94	SLV @ 03H	N/A	PSV @ 03H	222	N/A	N/A	0
PAL1A	70	15	SLV @ 03H	N/A	CSV @ 03H	223	0.85	0.96	0
PAL1A	70	23	SLV @ 03H	N/A	PSV @ 03H	224	N/A	N/A	0

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S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	70	87	SLV @ 03H	N/A	PSV @ 03H	225	N/A	N/A	0
PAL1A	70	93	SLV @ 03H	N/A	PSV @ 03H	226	N/A	N/A	0
PAL1A	70	111	SLV @ 03H	N/A	PSV @ 03H	227	N/A	N/A	0
PAL1A	70	117	SLV @ 03H	N/A	PSV @ 03H	228	N/A	N/A	0
PAL1A	70	131	SLV @ 03H	N/A	CSV @ 03H	229	0.05	1.04	0
PAL1A	70	153	SLV @ 03H	N/A	PSV @ 03H	230	N/A	N/A	0
PAL1A	71	48	SLV @ 03H	N/A	PSV @ 03H	231	N/A	N/A	0
PAL1A	71	92	SLV @ 03H	N/A	PSV @ 03H	232	N/A	N/A	0
PAL1A	71	102	SLV @ 03H	N/A	PSV @ 03H	233	N/A	N/A	0
PAL1A	71	110	SLV @ 03H	N/A	PSV @ 03H	234	N/A	N/A	0
PAL1A	72	57	SLV @ 03H	N/A	PSV @ 03H	235	N/A	N/A	0
PAL1A	72	83	SLV @ 03H	N/A	PSV @ 03H	236	N/A	N/A	0
PAL1A	72	85	SLV @ 03H	N/A	PSV @ 03H	237	N/A	N/A	0
PAL1A	72	89	SLV @ 03H	N/A	PSV @ 03H	238	N/A	N/A	0
PAL1A	72	91	SLV @ 03H	N/A	PSV @ 03H	239	N/A	N/A	0
PAL1A	73	58	SLV @ 03H	N/A	PSV @ 03H	240	N/A	N/A	0
PAL1A	73	72	SLV @ 03H	N/A	PSV @ 03H	241	N/A	N/A	0
PAL1A	73	78	SLV @ 03H	N/A	PSV @ 03H	242	N/A	N/A	0
PAL1A	73	80	SLV @ 03H	N/A	PSV @ 03H	243	N/A	N/A	0
PAL1A	73	86	SLV @ 03H	N/A	PSV @ 03H	244	N/A	N/A	0
PAL1A	74	85	SLV @ 03H	N/A	PSV @ 03H	245	N/A	N/A	0
PAL1A	74	95	SLV @ 03H	N/A	PSV @ 03H	246	N/A	N/A	0
PAL1A	74	101	SLV @ 03H	N/A	PSV @ 03H	247	N/A	N/A	0
PAL1A	74	105	SLV @ 03H	N/A	PSV @ 03H	248	N/A	N/A	0
PAL1A	75	84	SLV @ 03H	N/A	PSV @ 03H	249	N/A	N/A	0
PAL1A	75	92	SLV @ 03H	N/A	PSV @ 03H	250	N/A	N/A	0
PAL1A	75	94	SLV @ 03H	N/A	PSV @ 03H	251	N/A	N/A	0
PAL1A	77	54	SLV @ 03H	N/A	PSV @ 03H	252	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A

IN-SERVICE MECHANICAL SLEEVE LIST - 03H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	77	90	SLV @ 03H	N/A	PSV @ 03H	253	N/A	N/A	0
PAL1A	77	126	SLV @ 03H	N/A	PSV @ 03H	254	N/A	N/A	0
PAL1A	78	41	SLV @ 03H	N/A	PSV @ 03H	255	N/A	N/A	0
PAL1A	78	73	SLV @ 03H	N/A	PSV @ 03H	256	N/A	N/A	0
PAL1A	78	87	SLV @ 03H	N/A	PSV @ 03H	257	N/A	N/A	0
PAL1A	78	103	SLV @ 03H	N/A	PSV @ 03H	258	N/A	N/A	0
PAL1A	78	113	SLV @ 03H	N/A	PSV @ 03H	259	N/A	N/A	0
PAL1A	80	79	SLV @ 03H	N/A	PSV @ 03H	260	N/A	N/A	0
PAL1A	80	99	SLV @ 03H	N/A	PSV @ 03H	261	N/A	N/A	0
PAL1A	80	113	SLV @ 03H	N/A	PSV @ 03H	262	N/A	N/A	0
PAL1A	81	80	SLV @ 03H	N/A	PSV @ 03H	263	N/A	N/A	0
PAL1A	81	110	SLV @ 03H	N/A	PSV @ 03H	264	N/A	N/A	0
PAL1A	82	87	SLV @ 03H	N/A	PSV @ 03H	265	N/A	N/A	0
PAL1A	82	101	SLV @ 03H	N/A	PSV @ 03H	266	N/A	N/A	0
PAL1A	82	109	SLV @ 03H	N/A	PSV @ 03H	267	N/A	N/A	0
PAL1A	83	96	SLV @ 03H	N/A	PSV @ 03H	268	N/A	N/A	0
PAL1A	83	98	SLV @ 03H	N/A	PSV @ 03H	269	N/A	N/A	0
PAL1A	83	102	SLV @ 03H	N/A	PSV @ 03H	270	N/A	N/A	0
PAL1A	84	59	SLV @ 03H	N/A	PSV @ 03H	271	N/A	N/A	0
PAL1A	84	93	SLV @ 03H	N/A	PSV @ 03H	272	N/A	N/A	0
PAL1A	85	110	SLV @ 03H	N/A	PSV @ 03H	273	N/A	N/A	0
PAL1A	86	93	SLV @ 03H	N/A	PSV @ 03H	274	N/A	N/A	0
PAL1A	88	47	SLV @ 03H	N/A	PSV @ 03H	275	N/A	N/A	0
PAL1A	88	83	SLV @ 03H	N/A	PSV @ 03H	276	N/A	N/A	0
PAL1A	88	93	SLV @ 03H	N/A	PSV @ 03H	277	N/A	N/A	0
PAL1A	88	97	SLV @ 03H	N/A	PSV @ 03H	278	N/A	N/A	0
PAL1A	88	99	SLV @ 03H	N/A	PSV @ 03H	279	N/A	N/A	0
PAL1A	88	105	SLV @ 03H	N/A	PSV @ 03H	280	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A

IN-SERVICE MECHANICAL SLEEVE LIST - 03H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	88	107	SLV @ 03H	N/A	PSV @ 03H	281	N/A	N/A	0
PAL1A	88	115	SLV @ 03H	N/A	PSV @ 03H	282	N/A	N/A	0
PAL1A	89	54	SLV @ 03H	N/A	PSV @ 03H	283	N/A	N/A	0
PAL1A	89	90	SLV @ 03H	N/A	PSV @ 03H	284	N/A	N/A	0
PAL1A	89	96	SLV @ 03H	N/A	PSV @ 03H	285	N/A	N/A	0
PAL1A	89	98	SLV @ 03H	N/A	PSV @ 03H	286	N/A	N/A	0
PAL1A	89	114	SLV @ 03H	N/A	PSV @ 03H	287	N/A	N/A	0
PAL1A	90	59	SLV @ 03H	N/A	PSV @ 03H	288	N/A	N/A	0
PAL1A	90	89	SLV @ 03H	N/A	PSV @ 03H	289	N/A	N/A	0
PAL1A	90	125	SLV @ 03H	N/A	PSV @ 03H	290	N/A	N/A	0
PAL1A	91	64	SLV @ 03H	N/A	PSV @ 03H	291	N/A	N/A	0
PAL1A	91	70	SLV @ 03H	N/A	PSV @ 03H	292	N/A	N/A	0
PAL1A	91	72	SLV @ 03H	N/A	PSV @ 03H	293	N/A	N/A	0
PAL1A	91	78	SLV @ 03H	N/A	PSV @ 03H	294	N/A	N/A	0
PAL1A	91	84	SLV @ 03H	N/A	PSV @ 03H	295	N/A	N/A	0
PAL1A	91	88	SLV @ 03H	N/A	PSV @ 03H	296	N/A	N/A	0
PAL1A	91	90	SLV @ 03H	N/A	PSV @ 03H	297	N/A	N/A	0
PAL1A	91	94	SLV @ 03H	N/A	CSV @ 03H	298	0.61	0.91	0
PAL1A	91	96	SLV @ 03H	N/A	PSV @ 03H	299	N/A	N/A	0
PAL1A	91	98	SLV @ 03H	N/A	PSV @ 03H	300	N/A	N/A	0
PAL1A	91	100	SLV @ 03H	N/A	PSV @ 03H	301	N/A	N/A	0
PAL1A	91	104	SLV @ 03H	N/A	PSV @ 03H	302	N/A	N/A	0
PAL1A	91	124	SLV @ 03H	N/A	PSV @ 03H	303	N/A	N/A	0
PAL1A	92	25	SLV @ 03H	N/A	PSV @ 03H	304	N/A	N/A	0
PAL1A	92	45	SLV @ 03H	N/A	PSV @ 03H	305	N/A	N/A	0
PAL1A	92	95	SLV @ 03H	N/A	PSV @ 03H	306	N/A	N/A	0
PAL1A	92	97	SLV @ 03H	N/A	PSV @ 03H	307	N/A	N/A	0
PAL1A	92	101	SLV @ 03H	N/A	PSV @ 03H	308	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A

IN-SERVICE MECHANICAL SLEEVE LIST - 03H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	92	107	SLV @ 03H	N/A	PSV @ 03H	309	N/A	N/A	0
PAL1A	92	109	SLV @ 03H	N/A	PSV @ 03H	310	N/A	N/A	0
PAL1A	92	113	SLV @ 03H	N/A	PSV @ 03H	311	N/A	N/A	0
PAL1A	93	26	SLV @ 03H	N/A	PSV @ 03H	312	N/A	N/A	0
PAL1A	93	50	SLV @ 03H	N/A	PSV @ 03H	313	N/A	N/A	0
PAL1A	93	74	SLV @ 03H	N/A	PSV @ 03H	314	N/A	N/A	0
PAL1A	93	90	SLV @ 03H	N/A	PSV @ 03H	315	N/A	N/A	0
PAL1A	93	100	SLV @ 03H	N/A	PSV @ 03H	316	N/A	N/A	0
PAL1A	93	122	SLV @ 03H	N/A	PSV @ 03H	317	N/A	N/A	0
PAL1A	94	77	SLV @ 03H	N/A	PSV @ 03H	318	N/A	N/A	0
PAL1A	94	99	SLV @ 03H	N/A	PSV @ 03H	319	N/A	N/A	0
PAL1A	95	72	SLV @ 03H	N/A	PSV @ 03H	320	N/A	N/A	0
PAL1A	95	80	SLV @ 03H	N/A	PSV @ 03H	321	N/A	N/A	0
PAL1A	95	90	SLV @ 03H	N/A	PSV @ 03H	322	N/A	N/A	0
PAL1A	95	94	SLV @ 03H	N/A	CSV @ 03H	323	0.29	0.51	0
PAL1A	95	96	SLV @ 03H	N/A	PSV @ 03H	324	N/A	N/A	0
PAL1A	96	99	SLV @ 03H	N/A	PSV @ 03H	325	N/A	N/A	0
PAL1A	96	103	SLV @ 03H	N/A	PSV @ 03H	326	N/A	N/A	0
PAL1A	98	53	SLV @ 03H	N/A	PSV @ 03H	327	N/A	N/A	0
PAL1A	99	112	SLV @ 03H	N/A	PSV @ 03H	328	N/A	N/A	0
PAL1A	99	114	SLV @ 03H	N/A	CSV @ 03H	329	0.69	0.99	0
PAL1A	99	128	SLV @ 03H	N/A	PSV @ 03H	330	N/A	N/A	0
PAL1A	100	91	SLV @ 03H	N/A	CSV @ 03H	331	-0.96	0.59	0
PAL1A	100	97	SLV @ 03H	N/A	PSV @ 03H	332	N/A	N/A	0
PAL1A	100	107	SLV @ 03H	N/A	PSV @ 03H	333	N/A	N/A	0
PAL1A	100	111	SLV @ 03H	N/A	PSV @ 03H	334	N/A	N/A	0
PAL1A	100	119	SLV @ 03H	N/A	PSV @ 03H	335	N/A	N/A	0
PAL1A	101	56	SLV @ 03H	N/A	PSV @ 03H	336	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A

IN-SERVICE MECHANICAL SLEEVE LIST - 03H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	101	94	SLV @ 03H	N/A	PSV @ 03H	337	N/A	N/A	0
PAL1A	101	104	SLV @ 03H	N/A	CSV @ 03H	338	-0.56	0.96	0
PAL1A	101	118	SLV @ 03H	N/A	PSV @ 03H	339	N/A	N/A	0
PAL1A	102	99	SLV @ 03H	N/A	PSV @ 03H	340	N/A	N/A	0
PAL1A	102	109	SLV @ 03H	N/A	PSV @ 03H	341	N/A	N/A	0
PAL1A	103	76	SLV @ 03H	N/A	PSV @ 03H	342	N/A	N/A	0
PAL1A	103	84	SLV @ 03H	N/A	PSV @ 03H	343	N/A	N/A	0
PAL1A	103	92	SLV @ 03H	N/A	PSV @ 03H	344	N/A	N/A	0
PAL1A	103	100	SLV @ 03H	N/A	PSV @ 03H	345	N/A	N/A	0
PAL1A	103	102	SLV @ 03H	N/A	PSV @ 03H	346	N/A	N/A	0
PAL1A	103	106	SLV @ 03H	N/A	CSV @ 03H	347	-0.99	-0.56	0
PAL1A	103	110	SLV @ 03H	N/A	PSV @ 03H	348	N/A	N/A	0
PAL1A	104	107	SLV @ 03H	N/A	CSV @ 03H	349	-0.96	-0.24	0
PAL1A	105	74	SLV @ 03H	N/A	PSV @ 03H	350	N/A	N/A	0
PAL1A	105	76	SLV @ 03H	N/A	PSV @ 03H	351	N/A	N/A	0
PAL1A	105	112	SLV @ 03H	N/A	PSV @ 03H	352	N/A	N/A	0
PAL1A	106	69	SLV @ 03H	N/A	PSV @ 03H	353	N/A	N/A	0
PAL1A	106	87	SLV @ 03H	N/A	PSV @ 03H	354	N/A	N/A	0
PAL1A	106	107	SLV @ 03H	N/A	PSV @ 03H	355	N/A	N/A	0
PAL1A	106	135	SLV @ 03H	N/A	CSV @ 03H	356	-1.01	-0.69	0
PAL1A	107	54	SLV @ 03H	N/A	PSV @ 03H	357	N/A	N/A	0
PAL1A	107	60	SLV @ 03H	N/A	PSV @ 03H	358	N/A	N/A	0
PAL1A	107	72	SLV @ 03H	N/A	PSV @ 03H	359	N/A	N/A	0
PAL1A	107	108	SLV @ 03H	N/A	PSV @ 03H	360	N/A	N/A	0
PAL1A	107	122	SLV @ 03H	N/A	PSV @ 03H	361	N/A	N/A	0
PAL1A	108	71	SLV @ 03H	N/A	CSV @ 03H	362	-1.01	0.91	0
PAL1A	109	62	SLV @ 03H	N/A	PSV @ 03H	363	N/A	N/A	0
PAL1A	109	68	SLV @ 03H	N/A	CSV @ 03H	364	-0.96	-0.32	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A

IN-SERVICE MECHANICAL SLEEVE LIST - 03H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	109	80	SLV @ 03H	N/A	CSV @ 03H	365	0.77	0.91	0
PAL1A	109	86	SLV @ 03H	N/A	PSV @ 03H	366	N/A	N/A	0
PAL1A	109	90	SLV @ 03H	N/A	PSV @ 03H	367	N/A	N/A	0
PAL1A	109	94	SLV @ 03H	N/A	PSV @ 03H	368	N/A	N/A	0
PAL1A	109	118	SLV @ 03H	N/A	PSV @ 03H	369	N/A	N/A	0
PAL1A	110	61	SLV @ 03H	N/A	PSV @ 03H	370	N/A	N/A	0
PAL1A	110	69	SLV @ 03H	N/A	PSV @ 03H	371	N/A	N/A	0
PAL1A	110	91	SLV @ 03H	N/A	PSV @ 03H	372	N/A	N/A	0
PAL1A	110	103	SLV @ 03H	N/A	PSV @ 03H	373	N/A	N/A	0
PAL1A	110	109	SLV @ 03H	N/A	PSV @ 03H	374	N/A	N/A	0
PAL1A	110	131	SLV @ 03H	N/A	PSV @ 03H	375	N/A	N/A	0
PAL1A	111	38	SLV @ 03H	N/A	CSV @ 03H	376	-1.01	-0.83	0
PAL1A	111	62	SLV @ 03H	N/A	PSV @ 03H	377	N/A	N/A	0
PAL1A	111	72	SLV @ 03H	N/A	CSV @ 03H	378	0.61	1.01	0
PAL1A	111	90	SLV @ 03H	N/A	PSV @ 03H	379	N/A	N/A	0
PAL1A	111	94	SLV @ 03H	N/A	CSV @ 03H	380	0.64	0.99	0
PAL1A	113	54	SLV @ 03H	N/A	CSV @ 03H	381	-1.01	-0.85	0
PAL1A	113	82	SLV @ 03H	N/A	PSV @ 03H	382	N/A	N/A	0
PAL1A	113	88	SLV @ 03H	N/A	PSV @ 03H	383	N/A	N/A	0
PAL1A	113	90	SLV @ 03H	N/A	PSV @ 03H	384	N/A	N/A	0
PAL1A	113	96	SLV @ 03H	N/A	CSV @ 03H	385	-0.45	1.01	0
PAL1A	113	98	SLV @ 03H	N/A	CSV @ 03H	386	0.00	1.04	0
PAL1A	113	102	SLV @ 03H	N/A	PSV @ 03H	387	N/A	N/A	0
PAL1A	113	104	SLV @ 03H	N/A	PSV @ 03H	388	N/A	N/A	0
PAL1A	113	118	SLV @ 03H	N/A	PSV @ 03H	389	N/A	N/A	0
PAL1A	114	69	SLV @ 03H	N/A	CSV @ 03H	390	-0.96	-0.08	0
PAL1A	114	73	SLV @ 03H	N/A	PSV @ 03H	391	N/A	N/A	0
PAL1A	114	75	SLV @ 03H	N/A	PSV @ 03H	392	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A

IN-SERVICE MECHANICAL SLEEVE LIST - 03H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	114	91	SLV @ 03H	N/A	PSV @ 03H	393	N/A	N/A	0
PAL1A	114	93	SLV @ 03H	N/A	PSV @ 03H	394	N/A	N/A	0
PAL1A	114	111	SLV @ 03H	N/A	PSV @ 03H	395	N/A	N/A	0
PAL1A	115	76	SLV @ 03H	N/A	PSV @ 03H	396	N/A	N/A	0
PAL1A	115	88	SLV @ 03H	N/A	PSV @ 03H	397	N/A	N/A	0
PAL1A	115	98	SLV @ 03H	N/A	PSV @ 03H	398	N/A	N/A	0
PAL1A	115	104	SLV @ 03H	N/A	PSV @ 03H	399	N/A	N/A	0
PAL1A	115	106	SLV @ 03H	N/A	PSV @ 03H	400	N/A	N/A	0
PAL1A	115	108	SLV @ 03H	N/A	PSV @ 03H	401	N/A	N/A	0
PAL1A	116	87	SLV @ 03H	N/A	PSV @ 03H	402	N/A	N/A	0
PAL1A	117	56	SLV @ 03H	N/A	CSV @ 03H	403	-1.07	-0.85	0
PAL1A	117	104	SLV @ 03H	N/A	PSV @ 03H	404	N/A	N/A	0
PAL1A	119	96	SLV @ 03H	N/A	PSV @ 03H	405	N/A	N/A	0
PAL1A	120	51	SLV @ 03H	N/A	PSV @ 03H	406	N/A	N/A	0
PAL1A	120	91	SLV @ 03H	N/A	PSV @ 03H	407	N/A	N/A	0
PAL1A	121	90	SLV @ 03H	N/A	PSV @ 03H	408	N/A	N/A	0
PAL1A	121	98	SLV @ 03H	N/A	PSV @ 03H	409	N/A	N/A	0
PAL1A	121	102	SLV @ 03H	N/A	PSV @ 03H	410	N/A	N/A	0
PAL1A	121	104	SLV @ 03H	N/A	PSV @ 03H	411	N/A	N/A	0
PAL1A	121	106	SLV @ 03H	N/A	PSV @ 03H	412	N/A	N/A	0
PAL1A	122	63	SLV @ 03H	N/A	PSV @ 03H	413	N/A	N/A	0
PAL1A	122	89	SLV @ 03H	N/A	PSV @ 03H	414	N/A	N/A	0
PAL1A	123	48	SLV @ 03H	N/A	CSV @ 03H	415	0.83	0.93	0
PAL1A	123	88	SLV @ 03H	N/A	CSV @ 03H	416	0.59	0.93	0
PAL1A	123	94	SLV @ 03H	N/A	CSV @ 03H	417	-0.96	-0.69	0
PAL1A	125	66	SLV @ 03H	N/A	PSV @ 03H	418	N/A	N/A	0
PAL1A	125	98	SLV @ 03H	N/A	PSV @ 03H	419	N/A	N/A	0
PAL1A	125	102	SLV @ 03H	N/A	PSV @ 03H	420	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A

IN-SERVICE MECHANICAL SLEEVE LIST - 03H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	127	64	SLV @ 03H	N/A	PSV @ 03H	421	N/A	N/A	0
PAL1A	128	71	SLV @ 03H	N/A	PSV @ 03H	422	N/A	N/A	0
PAL1A	128	81	SLV @ 03H	N/A	PSV @ 03H	423	N/A	N/A	0
PAL1A	128	91	SLV @ 03H	N/A	PSV @ 03H	424	N/A	N/A	0
PAL1A	128	97	SLV @ 03H	N/A	PSV @ 03H	425	N/A	N/A	0
PAL1A	129	74	SLV @ 03H	N/A	PSV @ 03H	426	N/A	N/A	0
PAL1A	129	90	SLV @ 03H	N/A	PSV @ 03H	427	N/A	N/A	0
PAL1A	129	98	SLV @ 03H	N/A	PSV @ 03H	428	N/A	N/A	0
PAL1A	130	65	SLV @ 03H	N/A	PSV @ 03H	429	N/A	N/A	0
PAL1A	130	95	SLV @ 03H	N/A	PSV @ 03H	430	N/A	N/A	0
PAL1A	130	97	SLV @ 03H	N/A	PSV @ 03H	431	N/A	N/A	0
PAL1A	134	99	SLV @ 03H	N/A	PSV @ 03H	432	N/A	N/A	0
PAL1A	136	87	SLV @ 03H	N/A	PSV @ 03H	433	N/A	N/A	0
PAL1A	136	89	SLV @ 03H	N/A	PSV @ 03H	434	N/A	N/A	0
PAL1A	137	84	SLV @ 03H	N/A	PSV @ 03H	435	N/A	N/A	0
PAL1A	138	89	SLV @ 03H	N/A	CSV @ 03H	436	-1.01	-0.83	0
Totals:						436			

Notes (Rev. 0):

- This "In-Service" sleeving list is only for sleeves to be installed at the 3rd hot leg support (03H) and will be installed:
 - After** all tubes on the above list have had a sleeve installed at 04H.
 - Prior** to any sleeves installed at a lower hot leg support (i.e., 02H, 01H).
- All tubes shall be sleeved using the Alloy 690 Sleeve P/N 8164714-002 (14.5" nominal length).
- All tubes on the above list had a successful Sleeve GoGage result at the support location per 03-8169881-000; therefore, there are no clearance issues that would prevent the installation of a sleeve.
- All tubes on the above list were in service during plant operation for Cycle 28. Sleeving of de-plugged tubes that are being returned to service is covered under the "RTS" (Return-to-Service) sleeving list. All eddy current testing required by the Degradation Assessment (51-9378492-000) has been completed on these tubes.

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A

IN-SERVICE MECHANICAL SLEEVE LIST - 03H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
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5. The sleeving strategy implemented at 1D28 uses "corrective" sleeves (CSV) and "preventative" sleeves (PSV) per 51-938851-001 based on whether a repairable flaw (i.e., volumetric indications $\geq 40\%$ TW or crack-like indications) is identified with ECT at the support location.

The criteria for a "corrective" sleeve based on review of the ECT data is as follows:

- a) The repairable flaw must be located within the center 3" of the sleeve assuming 0.75" uncertainty on either end of the sleeve for the 14.5" sleeve; therefore, the flaw extents must be within ± 1.5 " of the center of the support.
- b) The repairable flaw must be located at hot leg eggcrate support 01H/02H/03H/04H for tubes in Rows 1-17 or 01H/02H/03H/04H/05H for tubes in Rows 18-138.

The criteria for a "preventative" sleeve based on review of the ECT data is as follows:

- a) There are no repairable flaws at the hot leg eggcrate support for this support elevation
- b) There are repairable flaws at a hot leg eggcrate support below this support elevation

6. For the tubes on the above list with corrective sleeves (CSV), the minimum and maximum extent of the flaw(s) at the support are listed as measured from the center of the support from the profile sizing data.

7. The tubes on the above list can remain in service following successful sleeve installation. The criteria for the selection of sleeving candidates based on review of the ECT data, is as follows:

- a. No volumetric indications $\geq 40\%$ TW or crack-like indications located in the "square-bend" region
- b. No volumetric indications $\geq 40\%$ TW or crack-like indications located at the top-of-tubesheet
- c. No volumetric indications $\geq 40\%$ TW or crack-like indications located in the freespan outside of any hot leg eggcrate support
- d. No volumetric indications $\geq 40\%$ TW or crack-like indications located at the 05H eggcrate support in Rows 1-17 tubes
- e. No volumetric indications $\geq 40\%$ TW or crack-like indications located at any location along the cold leg
- f. No volumetric indications $\geq 40\%$ TW or crack-like indications located at any hot leg support above 05H

8. The indications in the tubes on the above list were in-service during plant operation of Cycle 28. The indications in these tubes have screened against the in situ screening criteria. None of the indications in the above tubes require in situ testing.

9. Post-sleeving ECT Bobbin will be performed on the tubes on the above list for positional verification. Post-sleeving ECT +Point will be performed on the tubes on the above list over the length of the sleeve to obtain a baseline of the ECT data.

Approvals:

Craig Kelley 6/27/25 1:47PM

Framatome Integrity Engineering

Framatome Data Management 6/27/25 14:30

Framatome Lead Analyst 6-27-25 14:08
Kevin S. LaRosa

Utility Representative 6/27/25 14:10
Digitally signed by Ambar Rodriguez Alicea
DN: cn=Ambar Rodriguez Alicea, email=arodriguez1@holtec.com, Date: 2025.06.27 14:10:00

Donald Powell 6/30/25

Palisades Steam Generator Operational Assessment for Cycle 29

A.19 SGA 04H Sleeve Lists



Palisades Unit 1 - 1D28 - S/G 1A

MECHANICAL SLEEVE LIST - SLEEVE PROCESS VALIDATION (Rev. 3)

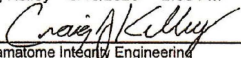
S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Stab	Rev.
PAL1A	24	39	SLV @ 04H	N/A	Sleeve Verification	1	NO	3
Totals:						1	0	

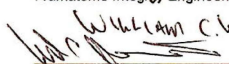
Notes (Rev. 3):

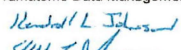
- This list is only for tubes with sleeves intalled for process verification and positional verification only at the 4th support (04H). The sleeves on this list will be installed:
 - After all sleeve installations at the 5th support (05H) have been completed.
 - Prior to any sleeves installed at the 4th support (04H) in tubes that are to be returned-to-service with sleeves.
- All tubes shall be sleeved using the Alloy 690 Sleeve P/N 8164714-002 (14.5" nominal length).
- The indications in the tubes on the above list have been screened against the in situ screening criteria. None of the indications in the above list require in situ testing.
- The tubes on the above list have been reviewed for skip rolls, over expansions, dents, bulges and additional indications. No such anomalies or indications were detected that would prohibit installation of a sleeve.
- Sleeves on the above list are installed for process verification and positional verification only and are not being used to return the tube to service. All tubes on the list shall be plugged after all post-installation activities are complete
- Post-sleeving ECT Bobbin will be performed on the tubes on the above list for positional verification.
- Data Management has confirmed that these tubes are included in repair scopes and planned for plugging prior to the unit returning to service.

Approvals:

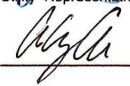
Craig Kelley 6/10/2025 2:36 PM


Framatome Integrity Engineering


Framatome Data Management 6/11/25 0644


Framatome Lead Analyst 6/11/25 03:20 PM


Utility Representative 6/10/25 03:47 PM


6/11/25


6/12/25

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
RTS WITH MECHANICAL SLEEVE LIST - 04H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	3	52	SLV @ 04H	N/A	PSV @ 04H	1	N/A	N/A	0
PAL1A	4	17	SLV @ 04H	N/A	CSV @ 04H	2	-0.62	-0.49	0
PAL1A	6	107	SLV @ 04H	N/A	CSV @ 04H	3	-0.64	0.72	0
PAL1A	8	111	SLV @ 04H	N/A	CSV @ 04H	4	-0.57	0.47	0
PAL1A	9	52	SLV @ 04H	N/A	PSV @ 04H	5	N/A	N/A	0
PAL1A	11	126	SLV @ 04H	N/A	PSV @ 04H	6	N/A	N/A	0
PAL1A	15	114	SLV @ 04H	N/A	PSV @ 04H	7	N/A	N/A	0
PAL1A	16	43	SLV @ 04H	N/A	CSV @ 04H	8	-1.06	-0.25	0
PAL1A	16	127	SLV @ 04H	N/A	CSV @ 04H	9	-1.04	0.92	0
PAL1A	17	62	SLV @ 04H	N/A	PSV @ 04H	10	N/A	N/A	0
PAL1A	19	118	SLV @ 04H	N/A	PSV @ 04H	11	N/A	N/A	0
PAL1A	21	108	SLV @ 04H	N/A	CSV @ 04H	12	-0.99	-0.77	0
PAL1A	23	106	SLV @ 04H	N/A	CSV @ 04H	13	-0.87	0.2	0
PAL1A	29	108	SLV @ 04H	N/A	PSV @ 04H	14	N/A	N/A	0
PAL1A	31	112	SLV @ 04H	N/A	PSV @ 04H	15	N/A	N/A	0
PAL1A	40	103	SLV @ 04H	N/A	CSV @ 04H	16	-0.02	0.54	0
PAL1A	60	71	SLV @ 04H	N/A	PSV @ 04H	17	N/A	N/A	0
PAL1A	80	83	SLV @ 04H	N/A	PSV @ 04H	18	N/A	N/A	0
PAL1A	92	83	SLV @ 04H	N/A	PSV @ 04H	19	N/A	N/A	0
PAL1A	93	92	SLV @ 04H	N/A	PSV @ 04H	20	N/A	N/A	0
PAL1A	100	93	SLV @ 04H	N/A	PSV @ 04H	21	N/A	N/A	0
PAL1A	121	88	SLV @ 04H	N/A	PSV @ 04H	22	N/A	N/A	0
PAL1A	133	94	SLV @ 04H	N/A	PSV @ 04H	23	N/A	N/A	0
Totals:						23			

Notes (Rev. 0):

- This "returning-to-service (RTS) with sleeves" list is only for sleeves to be installed at the 4th hot leg support (04H) and will be installed:
 - After** all tubes on the above list have had a sleeve installed at 05H except tubes in Rows 1-17 where a sleeve cannot be installed at 05H
 - Prior** to any sleeves installed at a lower hot leg support (i.e., 03H, 02H, 01H).
- All tubes shall be sleeved using the Alloy 690 Sleeve P/N 8164714-002 (14.5" nominal length).
- All tubes on the above list had a successful Sleeve GoGage result at the support location per 03-8169881-000; therefore, there are no clearance issues that would prevent the installation of a sleeve.

Palisades Steam Generator Operational Assessment for Cycle 29

framatome

Palisades Unit 1 - 1D28 - S/G 1A

RTS WITH MECHANICAL SLEEVE LIST - 04H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
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4. All tubes on the above list are identified for "RTS with sleeves" and are from tubes originally plugged from in-service inspections per 51-9388329-001 (Appendix B, Table B-1) and de-plugged on both legs during 1D28. The tubes on the above list have had bobbin and +Point ECT acquired and analyzed on both the hot leg and cold leg including the straight section from the tube end to the uppermost support in each tube, and the "square bend" region (defined as starting at +1.75" above the center of the uppermost eggcrate support in each tube) with inspections performed as specified in the Degradation Assessment (51-9378492-000) where applicable.

5. The sleeving strategy implemented at 1D28 uses "corrective" sleeve (CSV) and "preventative" sleeves (PSV) per 51-9388851-001 based on whether a repairable flaw (i.e., volumetric indications $\geq 40\%$ TW or crack-like indications) is identified with ECT at the support location.

The criteria for a "corrective" sleeve based on review of the ECT data is as follows:

- The repairable flaw must be located within the center 3" of the sleeve assuming 0.75" uncertainty on either end of the sleeve for the 14.5" sleeve; therefore, the flaw extents must be within ± 1.5 " of the center of the support.
- The repairable flaw must be located at hot leg eggcrate support 01H/02H/03H/04H for tubes in Rows 1-17 or 01H/02H/03H/04H/05H for tubes in Rows 18-138.

The criteria for a "preventative" sleeve based on review of the ECT data is as follows:

- There are no repairable flaws at the hot leg eggcrate support for this support elevation
- There are repairable flaws at a hot leg eggcrate support below this support elevation

6. For the tubes on the above list with corrective sleeves (CSV), the minimum and maximum extent of all flaws at the support are listed as measured from the center of the support from the profile sizing data.

7. The tubes on the above list can be "RTS with sleeves". The criteria for "RTS with sleeves" based on review of the ECT data, is as follows:

- No volumetric indications $\geq 40\%$ TW or crack-like indications located in the "square-bend" region
- No volumetric indications $\geq 40\%$ TW or crack-like indications located at the top-of-tubesheet
- No volumetric indications $\geq 40\%$ TW or crack-like indications located in the freespan outside of any hot leg eggcrate support
- No volumetric indications $\geq 40\%$ TW or crack-like indications located at the 05H eggcrate support in Rows 1-17 tubes
- No volumetric indications $\geq 40\%$ TW or crack-like indications located at any location along the cold leg

8. The indications in the tubes on the above list were not in-service during plant operation of Cycle 28 and are not required to be screened against the in situ screening criteria. Therefore, none of the indications in the above require in situ testing.

9. Post-sleeving ECT Bobbin will be performed on the tubes on the above list for positional verification. Post-sleeving ECT +Point will be performed on the tubes on the above list over the length of the sleeve to obtain a baseline of the ECT data.

Approvals:

Craig Kelley 6/10/2025 2:44 PM

Craig Kelley
Framatome Integrity Engineering

William C. Wolters
06/11/25 06:44
Framatome Data Management

Samuel J. Jones 6/10/2025
03:20 PM
Framatome Lead Analyst

D. J. Hadzinski
Utility Representative 06/10/25 03:46 pm

Ambar Rodriguez
6/11/25

Donald Powell
6/12/25

Palisades Steam Generator Operational Assessment for Cycle 29


Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	1	156	SLV @ 04H	N/A	PSV @ 04H	1	N/A	N/A	0
PAL1A	2	53	SLV @ 04H	N/A	PSV @ 04H	2	N/A	N/A	0
PAL1A	3	114	SLV @ 04H	N/A	PSV @ 04H	3	N/A	N/A	0
PAL1A	4	15	SLV @ 04H	N/A	PSV @ 04H	4	N/A	N/A	0
PAL1A	4	25	SLV @ 04H	N/A	CSV @ 04H	5	0.05	0.72	0
PAL1A	4	33	SLV @ 04H	N/A	CSV @ 04H	6	0.51	0.93	0
PAL1A	4	55	SLV @ 04H	N/A	PSV @ 04H	7	N/A	N/A	0
PAL1A	4	107	SLV @ 04H	N/A	CSV @ 04H	8	-0.35	0.88	0
PAL1A	4	113	SLV @ 04H	N/A	PSV @ 04H	9	N/A	N/A	0
PAL1A	4	117	SLV @ 04H	N/A	PSV @ 04H	10	N/A	N/A	0
PAL1A	5	110	SLV @ 04H	N/A	PSV @ 04H	11	N/A	N/A	0
PAL1A	7	56	SLV @ 04H	N/A	PSV @ 04H	12	N/A	N/A	0
PAL1A	7	58	SLV @ 04H	N/A	PSV @ 04H	13	N/A	N/A	0
PAL1A	7	106	SLV @ 04H	N/A	PSV @ 04H	14	N/A	N/A	0
PAL1A	7	112	SLV @ 04H	N/A	CSV @ 04H	15	0.43	0.80	0
PAL1A	7	118	SLV @ 04H	N/A	PSV @ 04H	16	N/A	N/A	0
PAL1A	7	122	SLV @ 04H	N/A	PSV @ 04H	17	N/A	N/A	0
PAL1A	7	126	SLV @ 04H	N/A	CSV @ 04H	18	-0.69	0.93	0
PAL1A	8	13	SLV @ 04H	N/A	PSV @ 04H	19	N/A	N/A	0
PAL1A	8	107	SLV @ 04H	N/A	PSV @ 04H	20	N/A	N/A	0
PAL1A	8	109	SLV @ 04H	N/A	CSV @ 04H	21	0.24	0.77	0
PAL1A	8	113	SLV @ 04H	N/A	CSV @ 04H	22	-0.72	-0.43	0
PAL1A	8	117	SLV @ 04H	N/A	PSV @ 04H	23	N/A	N/A	0
PAL1A	8	121	SLV @ 04H	N/A	PSV @ 04H	24	N/A	N/A	0
PAL1A	9	130	SLV @ 04H	N/A	CSV @ 04H	25	0.53	0.93	0
PAL1A	10	19	SLV @ 04H	N/A	PSV @ 04H	26	N/A	N/A	0
PAL1A	10	53	SLV @ 04H	N/A	PSV @ 04H	27	N/A	N/A	0
PAL1A	10	117	SLV @ 04H	N/A	PSV @ 04H	28	N/A	N/A	0
PAL1A	10	125	SLV @ 04H	N/A	PSV @ 04H	29	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	10	129	SLV @ 04H	N/A	PSV @ 04H	30	N/A	N/A	0
PAL1A	10	131	SLV @ 04H	N/A	CSV @ 04H	31	-0.32	-0.11	0
PAL1A	10	133	SLV @ 04H	N/A	PSV @ 04H	32	N/A	N/A	0
PAL1A	10	153	SLV @ 04H	N/A	PSV @ 04H	33	N/A	N/A	0
PAL1A	11	40	SLV @ 04H	N/A	PSV @ 04H	34	N/A	N/A	0
PAL1A	11	50	SLV @ 04H	N/A	PSV @ 04H	35	N/A	N/A	0
PAL1A	11	116	SLV @ 04H	N/A	PSV @ 04H	36	N/A	N/A	0
PAL1A	11	118	SLV @ 04H	N/A	PSV @ 04H	37	N/A	N/A	0
PAL1A	11	120	SLV @ 04H	N/A	PSV @ 04H	38	N/A	N/A	0
PAL1A	11	134	SLV @ 04H	N/A	PSV @ 04H	39	N/A	N/A	0
PAL1A	11	136	SLV @ 04H	N/A	CSV @ 04H	40	0.67	1.01	0
PAL1A	11	146	SLV @ 04H	N/A	PSV @ 04H	41	N/A	N/A	0
PAL1A	12	19	SLV @ 04H	N/A	PSV @ 04H	42	N/A	N/A	0
PAL1A	12	111	SLV @ 04H	N/A	PSV @ 04H	43	N/A	N/A	0
PAL1A	12	113	SLV @ 04H	N/A	PSV @ 04H	44	N/A	N/A	0
PAL1A	12	155	SLV @ 04H	N/A	PSV @ 04H	45	N/A	N/A	0
PAL1A	13	36	SLV @ 04H	N/A	CSV @ 04H	46	-0.77	0.61	0
PAL1A	13	58	SLV @ 04H	N/A	PSV @ 04H	47	N/A	N/A	0
PAL1A	13	124	SLV @ 04H	N/A	PSV @ 04H	48	N/A	N/A	0
PAL1A	13	140	SLV @ 04H	N/A	CSV @ 04H	49	0.40	0.96	0
PAL1A	14	5	SLV @ 04H	N/A	PSV @ 04H	50	N/A	N/A	0
PAL1A	14	57	SLV @ 04H	N/A	CSV @ 04H	51	-0.32	0.32	0
PAL1A	14	107	SLV @ 04H	N/A	PSV @ 04H	52	N/A	N/A	0
PAL1A	14	117	SLV @ 04H	N/A	PSV @ 04H	53	N/A	N/A	0
PAL1A	14	121	SLV @ 04H	N/A	PSV @ 04H	54	N/A	N/A	0
PAL1A	14	133	SLV @ 04H	N/A	CSV @ 04H	55	-1.04	-0.75	0
PAL1A	15	48	SLV @ 04H	N/A	PSV @ 04H	56	N/A	N/A	0
PAL1A	15	50	SLV @ 04H	N/A	PSV @ 04H	57	N/A	N/A	0
PAL1A	15	104	SLV @ 04H	N/A	PSV @ 04H	58	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	15	110	SLV @ 04H	N/A	PSV @ 04H	59	N/A	N/A	0
PAL1A	15	112	SLV @ 04H	N/A	CSV @ 04H	60	0.13	0.35	0
PAL1A	15	116	SLV @ 04H	N/A	CSV @ 04H	61	0.77	0.91	0
PAL1A	15	124	SLV @ 04H	N/A	PSV @ 04H	62	N/A	N/A	0
PAL1A	15	128	SLV @ 04H	N/A	CSV @ 04H	63	-0.37	0.83	0
PAL1A	15	134	SLV @ 04H	N/A	CSV @ 04H	64	-0.16	0.93	0
PAL1A	15	140	SLV @ 04H	N/A	CSV @ 04H	65	-1.04	0.48	0
PAL1A	15	152	SLV @ 04H	N/A	PSV @ 04H	66	N/A	N/A	0
PAL1A	15	158	SLV @ 04H	N/A	PSV @ 04H	67	N/A	N/A	0
PAL1A	16	19	SLV @ 04H	N/A	CSV @ 04H	68	-0.51	0.93	0
PAL1A	16	109	SLV @ 04H	N/A	PSV @ 04H	69	N/A	N/A	0
PAL1A	16	113	SLV @ 04H	N/A	PSV @ 04H	70	N/A	N/A	0
PAL1A	16	115	SLV @ 04H	N/A	PSV @ 04H	71	N/A	N/A	0
PAL1A	16	129	SLV @ 04H	N/A	CSV @ 04H	72	-1.12	-0.19	0
PAL1A	17	44	SLV @ 04H	N/A	PSV @ 04H	73	N/A	N/A	0
PAL1A	17	60	SLV @ 04H	N/A	CSV @ 04H	74	-0.67	-0.21	0
PAL1A	17	106	SLV @ 04H	N/A	PSV @ 04H	75	N/A	N/A	0
PAL1A	17	110	SLV @ 04H	N/A	PSV @ 04H	76	N/A	N/A	0
PAL1A	17	112	SLV @ 04H	N/A	PSV @ 04H	77	N/A	N/A	0
PAL1A	17	114	SLV @ 04H	N/A	PSV @ 04H	78	N/A	N/A	0
PAL1A	17	118	SLV @ 04H	N/A	PSV @ 04H	79	N/A	N/A	0
PAL1A	17	120	SLV @ 04H	N/A	CSV @ 04H	80	0.16	0.48	0
PAL1A	17	126	SLV @ 04H	N/A	PSV @ 04H	81	N/A	N/A	0
PAL1A	17	132	SLV @ 04H	N/A	PSV @ 04H	82	N/A	N/A	0
PAL1A	17	148	SLV @ 04H	N/A	CSV @ 04H	83	0.21	1.04	0
PAL1A	17	150	SLV @ 04H	N/A	PSV @ 04H	84	N/A	N/A	0
PAL1A	18	37	SLV @ 04H	N/A	PSV @ 04H	85	N/A	N/A	0
PAL1A	18	47	SLV @ 04H	N/A	PSV @ 04H	86	N/A	N/A	0
PAL1A	18	49	SLV @ 04H	N/A	CSV @ 04H	87	-0.85	-0.43	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	18	105	SLV @ 04H	N/A	PSV @ 04H	88	N/A	N/A	0
PAL1A	18	117	SLV @ 04H	N/A	PSV @ 04H	89	N/A	N/A	0
PAL1A	18	121	SLV @ 04H	N/A	PSV @ 04H	90	N/A	N/A	0
PAL1A	18	123	SLV @ 04H	N/A	PSV @ 04H	91	N/A	N/A	0
PAL1A	18	129	SLV @ 04H	N/A	CSV @ 04H	92	-0.99	-0.24	0
PAL1A	18	135	SLV @ 04H	N/A	PSV @ 04H	93	N/A	N/A	0
PAL1A	18	145	SLV @ 04H	N/A	CSV @ 04H	94	-0.32	0.00	0
PAL1A	19	44	SLV @ 04H (See Note 3a)	N/A	PSV @ 04H	95	N/A	N/A	0
PAL1A	19	46	SLV @ 04H	N/A	PSV @ 04H	96	N/A	N/A	0
PAL1A	19	62	SLV @ 04H	N/A	PSV @ 04H	97	N/A	N/A	0
PAL1A	19	104	SLV @ 04H	N/A	CSV @ 04H	98	0.83	0.99	0
PAL1A	19	106	SLV @ 04H	N/A	PSV @ 04H	99	N/A	N/A	0
PAL1A	19	112	SLV @ 04H	N/A	PSV @ 04H	100	N/A	N/A	0
PAL1A	19	114	SLV @ 04H	N/A	CSV @ 04H	101	0.21	0.61	0
PAL1A	19	120	SLV @ 04H	N/A	PSV @ 04H	102	N/A	N/A	0
PAL1A	19	122	SLV @ 04H	N/A	CSV @ 04H	103	0.77	0.96	0
PAL1A	19	126	SLV @ 04H	N/A	PSV @ 04H	104	N/A	N/A	0
PAL1A	19	128	SLV @ 04H	N/A	PSV @ 04H	105	N/A	N/A	0
PAL1A	19	148	SLV @ 04H	N/A	PSV @ 04H	106	N/A	N/A	0
PAL1A	20	15	SLV @ 04H	N/A	PSV @ 04H	107	N/A	N/A	0
PAL1A	21	42	SLV @ 04H	N/A	CSV @ 04H	108	0.16	1.04	0
PAL1A	21	56	SLV @ 04H	N/A	CSV @ 04H	109	0.69	1.01	0
PAL1A	21	102	SLV @ 04H	N/A	CSV @ 04H	110	0.40	0.93	0
PAL1A	21	104	SLV @ 04H	N/A	CSV @ 04H	111	-0.85	1.01	0
PAL1A	21	106	SLV @ 04H	N/A	CSV @ 04H	112	0.16	0.67	0
PAL1A	21	110	SLV @ 04H	N/A	PSV @ 04H	113	N/A	N/A	0
PAL1A	21	118	SLV @ 04H	N/A	PSV @ 04H	114	N/A	N/A	0
PAL1A	21	128	SLV @ 04H	N/A	CSV @ 04H	115	0.37	0.96	0
PAL1A	21	156	SLV @ 04H	N/A	CSV @ 04H	116	0.45	1.01	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	22	37	SLV @ 04H	N/A	CSV @ 04H	117	-0.75	-0.37	0
PAL1A	22	61	SLV @ 04H	N/A	CSV @ 04H	118	-0.99	-0.08	0
PAL1A	22	105	SLV @ 04H	N/A	PSV @ 04H	119	N/A	N/A	0
PAL1A	22	107	SLV @ 04H	N/A	PSV @ 04H	120	N/A	N/A	0
PAL1A	23	50	SLV @ 04H	N/A	PSV @ 04H	121	N/A	N/A	0
PAL1A	23	58	SLV @ 04H	N/A	CSV @ 04H	122	-1.01	-0.80	0
PAL1A	23	60	SLV @ 04H	N/A	CSV @ 04H	123	-0.69	0.00	0
PAL1A	23	116	SLV @ 04H	N/A	PSV @ 04H	124	N/A	N/A	0
PAL1A	23	122	SLV @ 04H	N/A	PSV @ 04H	125	N/A	N/A	0
PAL1A	23	132	SLV @ 04H	N/A	PSV @ 04H	126	N/A	N/A	0
PAL1A	23	150	SLV @ 04H	N/A	PSV @ 04H	127	N/A	N/A	0
PAL1A	24	47	SLV @ 04H	N/A	PSV @ 04H	128	N/A	N/A	0
PAL1A	24	107	SLV @ 04H	N/A	CSV @ 04H	129	-0.21	-0.05	0
PAL1A	24	133	SLV @ 04H	N/A	PSV @ 04H	130	N/A	N/A	0
PAL1A	24	159	SLV @ 04H	N/A	PSV @ 04H	131	N/A	N/A	0
PAL1A	25	62	SLV @ 04H	N/A	CSV @ 04H	132	0.80	1.04	0
PAL1A	25	102	SLV @ 04H	N/A	CSV @ 04H	133	-1.01	1.01	0
PAL1A	25	108	SLV @ 04H	N/A	CSV @ 04H	134	-0.77	0.93	0
PAL1A	25	124	SLV @ 04H	N/A	CSV @ 04H	135	-0.64	0.91	0
PAL1A	25	128	SLV @ 04H	N/A	PSV @ 04H	136	N/A	N/A	0
PAL1A	25	140	SLV @ 04H	N/A	PSV @ 04H	137	N/A	N/A	0
PAL1A	25	146	SLV @ 04H	N/A	CSV @ 04H	138	0.75	0.96	0
PAL1A	25	154	SLV @ 04H	N/A	PSV @ 04H	139	N/A	N/A	0
PAL1A	26	63	SLV @ 04H	N/A	CSV @ 04H	140	-0.27	0.59	0
PAL1A	26	111	SLV @ 04H	N/A	CSV @ 04H	141	-0.32	-0.16	0
PAL1A	26	115	SLV @ 04H	N/A	CSV @ 04H	142	-0.99	-0.11	0
PAL1A	26	117	SLV @ 04H	N/A	PSV @ 04H	143	N/A	N/A	0
PAL1A	26	139	SLV @ 04H	N/A	PSV @ 04H	144	N/A	N/A	0
PAL1A	26	157	SLV @ 04H	N/A	CSV @ 04H	145	-0.83	-0.35	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	27	46	SLV @ 04H	N/A	PSV @ 04H	146	N/A	N/A	0
PAL1A	27	56	SLV @ 04H	N/A	CSV @ 04H	147	0.56	1.01	0
PAL1A	27	60	SLV @ 04H	N/A	CSV @ 04H	148	-0.99	-0.69	0
PAL1A	27	62	SLV @ 04H	N/A	CSV @ 04H	149	-0.93	0.61	0
PAL1A	27	104	SLV @ 04H	N/A	PSV @ 04H	150	N/A	N/A	0
PAL1A	27	108	SLV @ 04H	N/A	CSV @ 04H	151	-0.59	0.80	0
PAL1A	27	110	SLV @ 04H	N/A	CSV @ 04H	152	-0.03	0.29	0
PAL1A	27	114	SLV @ 04H	N/A	PSV @ 04H	153	N/A	N/A	0
PAL1A	27	134	SLV @ 04H	N/A	PSV @ 04H	154	N/A	N/A	0
PAL1A	27	140	SLV @ 04H	N/A	CSV @ 04H	155	0.35	0.91	0
PAL1A	27	148	SLV @ 04H	N/A	CSV @ 04H	156	0.56	1.01	0
PAL1A	27	152	SLV @ 04H	N/A	PSV @ 04H	157	N/A	N/A	0
PAL1A	27	158	SLV @ 04H	N/A	CSV @ 04H	158	0.11	1.01	0
PAL1A	28	55	SLV @ 04H	N/A	PSV @ 04H	159	N/A	N/A	0
PAL1A	28	63	SLV @ 04H	N/A	PSV @ 04H	160	N/A	N/A	0
PAL1A	28	105	SLV @ 04H	N/A	PSV @ 04H	161	N/A	N/A	0
PAL1A	29	28	SLV @ 04H	N/A	PSV @ 04H	162	N/A	N/A	0
PAL1A	29	52	SLV @ 04H	N/A	PSV @ 04H	163	N/A	N/A	0
PAL1A	29	102	SLV @ 04H	N/A	CSV @ 04H	164	-0.91	-0.53	0
PAL1A	29	104	SLV @ 04H	N/A	CSV @ 04H	165	-0.40	0.96	0
PAL1A	29	106	SLV @ 04H	N/A	PSV @ 04H	166	N/A	N/A	0
PAL1A	29	130	SLV @ 04H	N/A	PSV @ 04H	167	N/A	N/A	0
PAL1A	29	152	SLV @ 04H	N/A	PSV @ 04H	168	N/A	N/A	0
PAL1A	30	107	SLV @ 04H	N/A	CSV @ 04H	169	-0.91	-0.53	0
PAL1A	31	54	SLV @ 04H	N/A	PSV @ 04H	170	N/A	N/A	0
PAL1A	32	103	SLV @ 04H	N/A	CSV @ 04H	171	0.08	0.32	0
PAL1A	32	105	SLV @ 04H	N/A	CSV @ 04H	172	-0.77	-0.67	0
PAL1A	32	107	SLV @ 04H	N/A	PSV @ 04H	173	N/A	N/A	0
PAL1A	32	113	SLV @ 04H	N/A	PSV @ 04H	174	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	32	155	SLV @ 04H	N/A	PSV @ 04H	175	N/A	N/A	0
PAL1A	33	16	SLV @ 04H	N/A	PSV @ 04H	176	N/A	N/A	0
PAL1A	33	26	SLV @ 04H	N/A	PSV @ 04H	177	N/A	N/A	0
PAL1A	33	54	SLV @ 04H	N/A	CSV @ 04H	178	0.69	0.99	0
PAL1A	33	56	SLV @ 04H	N/A	PSV @ 04H	179	N/A	N/A	0
PAL1A	33	60	SLV @ 04H	N/A	CSV @ 04H	180	0.88	1.07	0
PAL1A	33	106	SLV @ 04H	N/A	CSV @ 04H	181	-0.16	0.40	0
PAL1A	33	108	SLV @ 04H	N/A	PSV @ 04H	182	N/A	N/A	0
PAL1A	33	110	SLV @ 04H	N/A	PSV @ 04H	183	N/A	N/A	0
PAL1A	33	112	SLV @ 04H	N/A	PSV @ 04H	184	N/A	N/A	0
PAL1A	33	144	SLV @ 04H	N/A	CSV @ 04H	185	0.77	0.96	0
PAL1A	33	146	SLV @ 04H	N/A	PSV @ 04H	186	N/A	N/A	0
PAL1A	34	23	SLV @ 04H	N/A	PSV @ 04H	187	N/A	N/A	0
PAL1A	34	59	SLV @ 04H	N/A	PSV @ 04H	188	N/A	N/A	0
PAL1A	35	58	SLV @ 04H	N/A	PSV @ 04H	189	N/A	N/A	0
PAL1A	35	102	SLV @ 04H	N/A	CSV @ 04H	190	-0.80	0.51	0
PAL1A	35	104	SLV @ 04H	N/A	CSV @ 04H	191	-0.16	-0.03	0
PAL1A	35	106	SLV @ 04H	N/A	PSV @ 04H	192	N/A	N/A	0
PAL1A	35	150	SLV @ 04H	N/A	CSV @ 04H	193	0.61	0.99	0
PAL1A	36	43	SLV @ 04H	N/A	CSV @ 04H	194	-0.72	-0.29	0
PAL1A	36	59	SLV @ 04H	N/A	PSV @ 04H	195	N/A	N/A	0
PAL1A	36	103	SLV @ 04H	N/A	PSV @ 04H	196	N/A	N/A	0
PAL1A	36	105	SLV @ 04H	N/A	PSV @ 04H	197	N/A	N/A	0
PAL1A	36	111	SLV @ 04H	N/A	PSV @ 04H	198	N/A	N/A	0
PAL1A	37	106	SLV @ 04H	N/A	CSV @ 04H	199	0.61	0.80	0
PAL1A	37	116	SLV @ 04H	N/A	PSV @ 04H	200	N/A	N/A	0
PAL1A	38	57	SLV @ 04H	N/A	PSV @ 04H	201	N/A	N/A	0
PAL1A	38	109	SLV @ 04H	N/A	PSV @ 04H	202	N/A	N/A	0
PAL1A	38	137	SLV @ 04H	N/A	PSV @ 04H	203	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	39	60	SLV @ 04H	N/A	PSV @ 04H	204	N/A	N/A	0
PAL1A	39	108	SLV @ 04H	N/A	PSV @ 04H	205	N/A	N/A	0
PAL1A	39	110	SLV @ 04H	N/A	PSV @ 04H	206	N/A	N/A	0
PAL1A	39	120	SLV @ 04H	N/A	PSV @ 04H	207	N/A	N/A	0
PAL1A	39	122	SLV @ 04H	N/A	CSV @ 04H	208	0.75	0.93	0
PAL1A	40	111	SLV @ 04H	N/A	CSV @ 04H	209	-0.75	-0.59	0
PAL1A	40	129	SLV @ 04H	N/A	PSV @ 04H	210	N/A	N/A	0
PAL1A	41	108	SLV @ 04H	N/A	CSV @ 04H	211	0.88	0.99	0
PAL1A	43	112	SLV @ 04H	N/A	PSV @ 04H	212	N/A	N/A	0
PAL1A	44	59	SLV @ 04H	N/A	PSV @ 04H	213	N/A	N/A	0
PAL1A	44	99	SLV @ 04H	N/A	PSV @ 04H	214	N/A	N/A	0
PAL1A	44	105	SLV @ 04H	N/A	PSV @ 04H	215	N/A	N/A	0
PAL1A	45	58	SLV @ 04H	N/A	PSV @ 04H	216	N/A	N/A	0
PAL1A	45	104	SLV @ 04H	N/A	PSV @ 04H	217	N/A	N/A	0
PAL1A	45	158	SLV @ 04H	N/A	PSV @ 04H	218	N/A	N/A	0
PAL1A	46	35	SLV @ 04H	N/A	PSV @ 04H	219	N/A	N/A	0
PAL1A	46	59	SLV @ 04H	N/A	PSV @ 04H	220	N/A	N/A	0
PAL1A	46	67	SLV @ 04H	N/A	CSV @ 04H	221	0.69	0.96	0
PAL1A	46	111	SLV @ 04H	N/A	CSV @ 04H	222	-0.99	-0.11	0
PAL1A	46	121	SLV @ 04H	N/A	PSV @ 04H	223	N/A	N/A	0
PAL1A	46	125	SLV @ 04H	N/A	PSV @ 04H	224	N/A	N/A	0
PAL1A	46	145	SLV @ 04H	N/A	PSV @ 04H	225	N/A	N/A	0
PAL1A	47	48	SLV @ 04H	N/A	PSV @ 04H	226	N/A	N/A	0
PAL1A	47	62	SLV @ 04H	N/A	PSV @ 04H	227	N/A	N/A	0
PAL1A	47	108	SLV @ 04H	N/A	CSV @ 04H	228	0.19	1.07	0
PAL1A	47	126	SLV @ 04H	N/A	CSV @ 04H	229	0.51	1.01	0
PAL1A	48	45	SLV @ 04H	N/A	PSV @ 04H	230	N/A	N/A	0
PAL1A	48	69	SLV @ 04H	N/A	PSV @ 04H	231	N/A	N/A	0
PAL1A	48	105	SLV @ 04H	N/A	PSV @ 04H	232	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	48	113	SLV @ 04H	N/A	PSV @ 04H	233	N/A	N/A	0
PAL1A	49	100	SLV @ 04H	N/A	PSV @ 04H	234	N/A	N/A	0
PAL1A	49	102	SLV @ 04H	N/A	PSV @ 04H	235	N/A	N/A	0
PAL1A	49	108	SLV @ 04H	N/A	PSV @ 04H	236	N/A	N/A	0
PAL1A	49	110	SLV @ 04H	N/A	PSV @ 04H	237	N/A	N/A	0
PAL1A	50	99	SLV @ 04H	N/A	PSV @ 04H	238	N/A	N/A	0
PAL1A	50	101	SLV @ 04H	N/A	PSV @ 04H	239	N/A	N/A	0
PAL1A	50	113	SLV @ 04H	N/A	PSV @ 04H	240	N/A	N/A	0
PAL1A	52	97	SLV @ 04H	N/A	PSV @ 04H	241	N/A	N/A	0
PAL1A	56	85	SLV @ 04H	N/A	PSV @ 04H	242	N/A	N/A	0
PAL1A	56	111	SLV @ 04H	N/A	PSV @ 04H	243	N/A	N/A	0
PAL1A	57	52	SLV @ 04H	N/A	PSV @ 04H	244	N/A	N/A	0
PAL1A	57	68	SLV @ 04H	N/A	PSV @ 04H	245	N/A	N/A	0
PAL1A	57	90	SLV @ 04H	N/A	PSV @ 04H	246	N/A	N/A	0
PAL1A	57	112	SLV @ 04H	N/A	PSV @ 04H	247	N/A	N/A	0
PAL1A	57	134	SLV @ 04H	N/A	PSV @ 04H	248	N/A	N/A	0
PAL1A	58	69	SLV @ 04H	N/A	PSV @ 04H	249	N/A	N/A	0
PAL1A	58	101	SLV @ 04H	N/A	PSV @ 04H	250	N/A	N/A	0
PAL1A	60	91	SLV @ 04H	N/A	PSV @ 04H	251	N/A	N/A	0
PAL1A	60	93	SLV @ 04H	N/A	PSV @ 04H	252	N/A	N/A	0
PAL1A	60	95	SLV @ 04H	N/A	PSV @ 04H	253	N/A	N/A	0
PAL1A	60	97	SLV @ 04H	N/A	PSV @ 04H	254	N/A	N/A	0
PAL1A	61	106	SLV @ 04H	N/A	PSV @ 04H	255	N/A	N/A	0
PAL1A	61	110	SLV @ 04H	N/A	PSV @ 04H	256	N/A	N/A	0
PAL1A	61	118	SLV @ 04H	N/A	PSV @ 04H	257	N/A	N/A	0
PAL1A	63	38	SLV @ 04H	N/A	PSV @ 04H	258	N/A	N/A	0
PAL1A	63	48	SLV @ 04H	N/A	PSV @ 04H	259	N/A	N/A	0
PAL1A	63	86	SLV @ 04H	N/A	PSV @ 04H	260	N/A	N/A	0
PAL1A	63	90	SLV @ 04H	N/A	PSV @ 04H	261	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29


Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	64	93	SLV @ 04H	N/A	PSV @ 04H	262	N/A	N/A	0
PAL1A	64	95	SLV @ 04H	N/A	PSV @ 04H	263	N/A	N/A	0
PAL1A	65	114	SLV @ 04H	N/A	PSV @ 04H	264	N/A	N/A	0
PAL1A	66	77	SLV @ 04H	N/A	PSV @ 04H	265	N/A	N/A	0
PAL1A	66	95	SLV @ 04H	N/A	PSV @ 04H	266	N/A	N/A	0
PAL1A	67	88	SLV @ 04H	N/A	PSV @ 04H	267	N/A	N/A	0
PAL1A	67	96	SLV @ 04H	N/A	PSV @ 04H	268	N/A	N/A	0
PAL1A	68	83	SLV @ 04H	N/A	PSV @ 04H	269	N/A	N/A	0
PAL1A	68	95	SLV @ 04H	N/A	PSV @ 04H	270	N/A	N/A	0
PAL1A	68	117	SLV @ 04H	N/A	PSV @ 04H	271	N/A	N/A	0
PAL1A	69	62	SLV @ 04H	N/A	PSV @ 04H	272	N/A	N/A	0
PAL1A	69	78	SLV @ 04H	N/A	PSV @ 04H	273	N/A	N/A	0
PAL1A	69	86	SLV @ 04H	N/A	PSV @ 04H	274	N/A	N/A	0
PAL1A	69	88	SLV @ 04H	N/A	PSV @ 04H	275	N/A	N/A	0
PAL1A	69	90	SLV @ 04H	N/A	PSV @ 04H	276	N/A	N/A	0
PAL1A	69	92	SLV @ 04H	N/A	PSV @ 04H	277	N/A	N/A	0
PAL1A	69	94	SLV @ 04H	N/A	PSV @ 04H	278	N/A	N/A	0
PAL1A	70	15	SLV @ 04H	N/A	PSV @ 04H	279	N/A	N/A	0
PAL1A	70	23	SLV @ 04H	N/A	PSV @ 04H	280	N/A	N/A	0
PAL1A	70	87	SLV @ 04H	N/A	PSV @ 04H	281	N/A	N/A	0
PAL1A	70	93	SLV @ 04H	N/A	PSV @ 04H	282	N/A	N/A	0
PAL1A	70	111	SLV @ 04H	N/A	PSV @ 04H	283	N/A	N/A	0
PAL1A	70	117	SLV @ 04H	N/A	CSV @ 04H	284	-0.99	-0.56	0
PAL1A	70	131	SLV @ 04H	N/A	PSV @ 04H	285	N/A	N/A	0
PAL1A	70	153	SLV @ 04H	N/A	PSV @ 04H	286	N/A	N/A	0
PAL1A	71	48	SLV @ 04H	N/A	PSV @ 04H	287	N/A	N/A	0
PAL1A	71	58	SLV @ 04H	N/A	CSV @ 04H	288	0.69	0.83	0
PAL1A	71	92	SLV @ 04H	N/A	PSV @ 04H	289	N/A	N/A	0
PAL1A	71	102	SLV @ 04H	N/A	PSV @ 04H	290	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	71	110	SLV @ 04H	N/A	PSV @ 04H	291	N/A	N/A	0
PAL1A	71	122	SLV @ 04H	N/A	CSV @ 04H	292	0.80	1.07	0
PAL1A	72	57	SLV @ 04H	N/A	PSV @ 04H	293	N/A	N/A	0
PAL1A	72	83	SLV @ 04H	N/A	PSV @ 04H	294	N/A	N/A	0
PAL1A	72	85	SLV @ 04H	N/A	PSV @ 04H	295	N/A	N/A	0
PAL1A	72	89	SLV @ 04H	N/A	PSV @ 04H	296	N/A	N/A	0
PAL1A	72	91	SLV @ 04H	N/A	PSV @ 04H	297	N/A	N/A	0
PAL1A	73	58	SLV @ 04H	N/A	PSV @ 04H	298	N/A	N/A	0
PAL1A	73	72	SLV @ 04H	N/A	PSV @ 04H	299	N/A	N/A	0
PAL1A	73	78	SLV @ 04H	N/A	PSV @ 04H	300	N/A	N/A	0
PAL1A	73	80	SLV @ 04H	N/A	PSV @ 04H	301	N/A	N/A	0
PAL1A	73	86	SLV @ 04H	N/A	PSV @ 04H	302	N/A	N/A	0
PAL1A	74	85	SLV @ 04H	N/A	PSV @ 04H	303	N/A	N/A	0
PAL1A	74	95	SLV @ 04H	N/A	PSV @ 04H	304	N/A	N/A	0
PAL1A	74	101	SLV @ 04H	N/A	PSV @ 04H	305	N/A	N/A	0
PAL1A	74	105	SLV @ 04H	N/A	PSV @ 04H	306	N/A	N/A	0
PAL1A	75	84	SLV @ 04H	N/A	PSV @ 04H	307	N/A	N/A	0
PAL1A	75	92	SLV @ 04H	N/A	CSV @ 04H	308	0.11	0.51	0
PAL1A	75	94	SLV @ 04H	N/A	PSV @ 04H	309	N/A	N/A	0
PAL1A	77	54	SLV @ 04H	N/A	PSV @ 04H	310	N/A	N/A	0
PAL1A	77	74	SLV @ 04H	N/A	CSV @ 04H	311	0.88	1.01	0
PAL1A	77	90	SLV @ 04H	N/A	PSV @ 04H	312	N/A	N/A	0
PAL1A	77	124	SLV @ 04H	N/A	PSV @ 04H	313	N/A	N/A	0
PAL1A	77	126	SLV @ 04H	N/A	PSV @ 04H	314	N/A	N/A	0
PAL1A	78	41	SLV @ 04H	N/A	PSV @ 04H	315	N/A	N/A	0
PAL1A	78	73	SLV @ 04H	N/A	PSV @ 04H	316	N/A	N/A	0
PAL1A	78	87	SLV @ 04H	N/A	PSV @ 04H	317	N/A	N/A	0
PAL1A	78	103	SLV @ 04H	N/A	PSV @ 04H	318	N/A	N/A	0
PAL1A	78	113	SLV @ 04H	N/A	PSV @ 04H	319	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	80	79	SLV @ 04H	N/A	PSV @ 04H	320	N/A	N/A	0
PAL1A	80	99	SLV @ 04H	N/A	PSV @ 04H	321	N/A	N/A	0
PAL1A	80	113	SLV @ 04H	N/A	PSV @ 04H	322	N/A	N/A	0
PAL1A	81	80	SLV @ 04H	N/A	PSV @ 04H	323	N/A	N/A	0
PAL1A	81	110	SLV @ 04H	N/A	PSV @ 04H	324	N/A	N/A	0
PAL1A	82	87	SLV @ 04H	N/A	PSV @ 04H	325	N/A	N/A	0
PAL1A	82	101	SLV @ 04H	N/A	PSV @ 04H	326	N/A	N/A	0
PAL1A	82	109	SLV @ 04H	N/A	PSV @ 04H	327	N/A	N/A	0
PAL1A	83	96	SLV @ 04H	N/A	PSV @ 04H	328	N/A	N/A	0
PAL1A	83	98	SLV @ 04H	N/A	PSV @ 04H	329	N/A	N/A	0
PAL1A	83	102	SLV @ 04H	N/A	PSV @ 04H	330	N/A	N/A	0
PAL1A	84	59	SLV @ 04H	N/A	PSV @ 04H	331	N/A	N/A	0
PAL1A	84	93	SLV @ 04H	N/A	PSV @ 04H	332	N/A	N/A	0
PAL1A	85	110	SLV @ 04H	N/A	PSV @ 04H	333	N/A	N/A	0
PAL1A	86	93	SLV @ 04H	N/A	PSV @ 04H	334	N/A	N/A	0
PAL1A	88	47	SLV @ 04H	N/A	PSV @ 04H	335	N/A	N/A	0
PAL1A	88	83	SLV @ 04H	N/A	PSV @ 04H	336	N/A	N/A	0
PAL1A	88	93	SLV @ 04H	N/A	PSV @ 04H	337	N/A	N/A	0
PAL1A	88	97	SLV @ 04H	N/A	PSV @ 04H	338	N/A	N/A	0
PAL1A	88	99	SLV @ 04H	N/A	PSV @ 04H	339	N/A	N/A	0
PAL1A	88	105	SLV @ 04H	N/A	PSV @ 04H	340	N/A	N/A	0
PAL1A	88	107	SLV @ 04H	N/A	PSV @ 04H	341	N/A	N/A	0
PAL1A	88	115	SLV @ 04H	N/A	PSV @ 04H	342	N/A	N/A	0
PAL1A	89	54	SLV @ 04H	N/A	PSV @ 04H	343	N/A	N/A	0
PAL1A	89	90	SLV @ 04H	N/A	PSV @ 04H	344	N/A	N/A	0
PAL1A	89	96	SLV @ 04H	N/A	PSV @ 04H	345	N/A	N/A	0
PAL1A	89	98	SLV @ 04H	N/A	PSV @ 04H	346	N/A	N/A	0
PAL1A	89	114	SLV @ 04H	N/A	PSV @ 04H	347	N/A	N/A	0
PAL1A	90	59	SLV @ 04H	N/A	PSV @ 04H	348	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	90	89	SLV @ 04H	N/A	PSV @ 04H	349	N/A	N/A	0
PAL1A	90	125	SLV @ 04H	N/A	PSV @ 04H	350	N/A	N/A	0
PAL1A	91	64	SLV @ 04H	N/A	PSV @ 04H	351	N/A	N/A	0
PAL1A	91	70	SLV @ 04H	N/A	PSV @ 04H	352	N/A	N/A	0
PAL1A	91	72	SLV @ 04H	N/A	PSV @ 04H	353	N/A	N/A	0
PAL1A	91	78	SLV @ 04H	N/A	PSV @ 04H	354	N/A	N/A	0
PAL1A	91	84	SLV @ 04H	N/A	PSV @ 04H	355	N/A	N/A	0
PAL1A	91	88	SLV @ 04H	N/A	PSV @ 04H	356	N/A	N/A	0
PAL1A	91	90	SLV @ 04H	N/A	PSV @ 04H	357	N/A	N/A	0
PAL1A	91	94	SLV @ 04H	N/A	PSV @ 04H	358	N/A	N/A	0
PAL1A	91	96	SLV @ 04H	N/A	PSV @ 04H	359	N/A	N/A	0
PAL1A	91	98	SLV @ 04H	N/A	PSV @ 04H	360	N/A	N/A	0
PAL1A	91	100	SLV @ 04H	N/A	PSV @ 04H	361	N/A	N/A	0
PAL1A	91	104	SLV @ 04H	N/A	PSV @ 04H	362	N/A	N/A	0
PAL1A	91	124	SLV @ 04H	N/A	PSV @ 04H	363	N/A	N/A	0
PAL1A	92	25	SLV @ 04H	N/A	PSV @ 04H	364	N/A	N/A	0
PAL1A	92	45	SLV @ 04H	N/A	PSV @ 04H	365	N/A	N/A	0
PAL1A	92	95	SLV @ 04H	N/A	PSV @ 04H	366	N/A	N/A	0
PAL1A	92	97	SLV @ 04H	N/A	PSV @ 04H	367	N/A	N/A	0
PAL1A	92	101	SLV @ 04H	N/A	PSV @ 04H	368	N/A	N/A	0
PAL1A	92	107	SLV @ 04H	N/A	PSV @ 04H	369	N/A	N/A	0
PAL1A	92	109	SLV @ 04H	N/A	PSV @ 04H	370	N/A	N/A	0
PAL1A	92	113	SLV @ 04H	N/A	PSV @ 04H	371	N/A	N/A	0
PAL1A	93	26	SLV @ 04H	N/A	PSV @ 04H	372	N/A	N/A	0
PAL1A	93	50	SLV @ 04H	N/A	PSV @ 04H	373	N/A	N/A	0
PAL1A	93	74	SLV @ 04H	N/A	PSV @ 04H	374	N/A	N/A	0
PAL1A	93	90	SLV @ 04H	N/A	PSV @ 04H	375	N/A	N/A	0
PAL1A	93	100	SLV @ 04H	N/A	PSV @ 04H	376	N/A	N/A	0
PAL1A	93	122	SLV @ 04H	N/A	PSV @ 04H	377	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	94	77	SLV @ 04H	N/A	PSV @ 04H	378	N/A	N/A	0
PAL1A	94	99	SLV @ 04H	N/A	PSV @ 04H	379	N/A	N/A	0
PAL1A	95	72	SLV @ 04H	N/A	PSV @ 04H	380	N/A	N/A	0
PAL1A	95	80	SLV @ 04H	N/A	PSV @ 04H	381	N/A	N/A	0
PAL1A	95	90	SLV @ 04H	N/A	PSV @ 04H	382	N/A	N/A	0
PAL1A	95	94	SLV @ 04H	N/A	PSV @ 04H	383	N/A	N/A	0
PAL1A	95	96	SLV @ 04H	N/A	PSV @ 04H	384	N/A	N/A	0
PAL1A	96	99	SLV @ 04H	N/A	PSV @ 04H	385	N/A	N/A	0
PAL1A	96	103	SLV @ 04H	N/A	PSV @ 04H	386	N/A	N/A	0
PAL1A	98	53	SLV @ 04H	N/A	PSV @ 04H	387	N/A	N/A	0
PAL1A	99	92	SLV @ 04H	N/A	PSV @ 04H	388	N/A	N/A	0
PAL1A	99	112	SLV @ 04H	N/A	PSV @ 04H	389	N/A	N/A	0
PAL1A	99	114	SLV @ 04H	N/A	PSV @ 04H	390	N/A	N/A	0
PAL1A	99	128	SLV @ 04H	N/A	PSV @ 04H	391	N/A	N/A	0
PAL1A	100	91	SLV @ 04H	N/A	PSV @ 04H	392	N/A	N/A	0
PAL1A	100	97	SLV @ 04H	N/A	PSV @ 04H	393	N/A	N/A	0
PAL1A	100	107	SLV @ 04H	N/A	PSV @ 04H	394	N/A	N/A	0
PAL1A	100	111	SLV @ 04H	N/A	PSV @ 04H	395	N/A	N/A	0
PAL1A	100	119	SLV @ 04H	N/A	PSV @ 04H	396	N/A	N/A	0
PAL1A	101	56	SLV @ 04H	N/A	PSV @ 04H	397	N/A	N/A	0
PAL1A	101	94	SLV @ 04H	N/A	PSV @ 04H	398	N/A	N/A	0
PAL1A	101	104	SLV @ 04H	N/A	PSV @ 04H	399	N/A	N/A	0
PAL1A	101	118	SLV @ 04H	N/A	PSV @ 04H	400	N/A	N/A	0
PAL1A	102	99	SLV @ 04H	N/A	PSV @ 04H	401	N/A	N/A	0
PAL1A	102	109	SLV @ 04H	N/A	PSV @ 04H	402	N/A	N/A	0
PAL1A	103	76	SLV @ 04H	N/A	PSV @ 04H	403	N/A	N/A	0
PAL1A	103	84	SLV @ 04H	N/A	PSV @ 04H	404	N/A	N/A	0
PAL1A	103	92	SLV @ 04H	N/A	PSV @ 04H	405	N/A	N/A	0
PAL1A	103	100	SLV @ 04H	N/A	PSV @ 04H	406	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	103	102	SLV @ 04H	N/A	PSV @ 04H	407	N/A	N/A	0
PAL1A	103	106	SLV @ 04H	N/A	PSV @ 04H	408	N/A	N/A	0
PAL1A	103	110	SLV @ 04H	N/A	PSV @ 04H	409	N/A	N/A	0
PAL1A	104	107	SLV @ 04H	N/A	PSV @ 04H	410	N/A	N/A	0
PAL1A	105	74	SLV @ 04H	N/A	PSV @ 04H	411	N/A	N/A	0
PAL1A	105	76	SLV @ 04H	N/A	PSV @ 04H	412	N/A	N/A	0
PAL1A	105	112	SLV @ 04H	N/A	PSV @ 04H	413	N/A	N/A	0
PAL1A	106	69	SLV @ 04H	N/A	PSV @ 04H	414	N/A	N/A	0
PAL1A	106	87	SLV @ 04H	N/A	PSV @ 04H	415	N/A	N/A	0
PAL1A	106	107	SLV @ 04H	N/A	PSV @ 04H	416	N/A	N/A	0
PAL1A	106	135	SLV @ 04H	N/A	PSV @ 04H	417	N/A	N/A	0
PAL1A	107	54	SLV @ 04H	N/A	PSV @ 04H	418	N/A	N/A	0
PAL1A	107	60	SLV @ 04H	N/A	PSV @ 04H	419	N/A	N/A	0
PAL1A	107	72	SLV @ 04H	N/A	PSV @ 04H	420	N/A	N/A	0
PAL1A	107	108	SLV @ 04H	N/A	PSV @ 04H	421	N/A	N/A	0
PAL1A	107	122	SLV @ 04H	N/A	PSV @ 04H	422	N/A	N/A	0
PAL1A	108	71	SLV @ 04H	N/A	PSV @ 04H	423	N/A	N/A	0
PAL1A	109	62	SLV @ 04H	N/A	PSV @ 04H	424	N/A	N/A	0
PAL1A	109	68	SLV @ 04H	N/A	PSV @ 04H	425	N/A	N/A	0
PAL1A	109	80	SLV @ 04H	N/A	PSV @ 04H	426	N/A	N/A	0
PAL1A	109	86	SLV @ 04H	N/A	CSV @ 04H	427	-1.04	-0.56	0
PAL1A	109	90	SLV @ 04H	N/A	PSV @ 04H	428	N/A	N/A	0
PAL1A	109	94	SLV @ 04H	N/A	PSV @ 04H	429	N/A	N/A	0
PAL1A	109	118	SLV @ 04H	N/A	PSV @ 04H	430	N/A	N/A	0
PAL1A	110	61	SLV @ 04H	N/A	PSV @ 04H	431	N/A	N/A	0
PAL1A	110	69	SLV @ 04H	N/A	PSV @ 04H	432	N/A	N/A	0
PAL1A	110	91	SLV @ 04H	N/A	PSV @ 04H	433	N/A	N/A	0
PAL1A	110	103	SLV @ 04H	N/A	PSV @ 04H	434	N/A	N/A	0
PAL1A	110	109	SLV @ 04H	N/A	PSV @ 04H	435	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	110	131	SLV @ 04H	N/A	PSV @ 04H	436	N/A	N/A	0
PAL1A	111	38	SLV @ 04H	N/A	PSV @ 04H	437	N/A	N/A	0
PAL1A	111	62	SLV @ 04H	N/A	PSV @ 04H	438	N/A	N/A	0
PAL1A	111	72	SLV @ 04H	N/A	PSV @ 04H	439	N/A	N/A	0
PAL1A	111	90	SLV @ 04H	N/A	PSV @ 04H	440	N/A	N/A	0
PAL1A	111	94	SLV @ 04H	N/A	PSV @ 04H	441	N/A	N/A	0
PAL1A	113	54	SLV @ 04H	N/A	PSV @ 04H	442	N/A	N/A	0
PAL1A	113	82	SLV @ 04H	N/A	PSV @ 04H	443	N/A	N/A	0
PAL1A	113	88	SLV @ 04H	N/A	PSV @ 04H	444	N/A	N/A	0
PAL1A	113	90	SLV @ 04H	N/A	PSV @ 04H	445	N/A	N/A	0
PAL1A	113	96	SLV @ 04H	N/A	PSV @ 04H	446	N/A	N/A	0
PAL1A	113	98	SLV @ 04H	N/A	PSV @ 04H	447	N/A	N/A	0
PAL1A	113	102	SLV @ 04H	N/A	PSV @ 04H	448	N/A	N/A	0
PAL1A	113	104	SLV @ 04H	N/A	PSV @ 04H	449	N/A	N/A	0
PAL1A	113	118	SLV @ 04H	N/A	PSV @ 04H	450	N/A	N/A	0
PAL1A	114	69	SLV @ 04H	N/A	PSV @ 04H	451	N/A	N/A	0
PAL1A	114	73	SLV @ 04H	N/A	PSV @ 04H	452	N/A	N/A	0
PAL1A	114	75	SLV @ 04H	N/A	PSV @ 04H	453	N/A	N/A	0
PAL1A	114	91	SLV @ 04H	N/A	PSV @ 04H	454	N/A	N/A	0
PAL1A	114	93	SLV @ 04H	N/A	PSV @ 04H	455	N/A	N/A	0
PAL1A	114	111	SLV @ 04H	N/A	PSV @ 04H	456	N/A	N/A	0
PAL1A	115	76	SLV @ 04H	N/A	PSV @ 04H	457	N/A	N/A	0
PAL1A	115	88	SLV @ 04H	N/A	PSV @ 04H	458	N/A	N/A	0
PAL1A	115	98	SLV @ 04H	N/A	PSV @ 04H	459	N/A	N/A	0
PAL1A	115	104	SLV @ 04H	N/A	PSV @ 04H	460	N/A	N/A	0
PAL1A	115	106	SLV @ 04H	N/A	PSV @ 04H	461	N/A	N/A	0
PAL1A	115	108	SLV @ 04H	N/A	PSV @ 04H	462	N/A	N/A	0
PAL1A	116	87	SLV @ 04H	N/A	PSV @ 04H	463	N/A	N/A	0
PAL1A	117	56	SLV @ 04H	N/A	PSV @ 04H	464	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	117	104	SLV @ 04H	N/A	PSV @ 04H	465	N/A	N/A	0
PAL1A	119	96	SLV @ 04H	N/A	PSV @ 04H	466	N/A	N/A	0
PAL1A	120	51	SLV @ 04H	N/A	PSV @ 04H	467	N/A	N/A	0
PAL1A	120	91	SLV @ 04H	N/A	PSV @ 04H	468	N/A	N/A	0
PAL1A	121	90	SLV @ 04H	N/A	PSV @ 04H	469	N/A	N/A	0
PAL1A	121	98	SLV @ 04H	N/A	PSV @ 04H	470	N/A	N/A	0
PAL1A	121	102	SLV @ 04H	N/A	PSV @ 04H	471	N/A	N/A	0
PAL1A	121	104	SLV @ 04H	N/A	PSV @ 04H	472	N/A	N/A	0
PAL1A	121	106	SLV @ 04H	N/A	PSV @ 04H	473	N/A	N/A	0
PAL1A	122	63	SLV @ 04H	N/A	PSV @ 04H	474	N/A	N/A	0
PAL1A	122	89	SLV @ 04H	N/A	PSV @ 04H	475	N/A	N/A	0
PAL1A	123	48	SLV @ 04H	N/A	PSV @ 04H	476	N/A	N/A	0
PAL1A	123	88	SLV @ 04H	N/A	PSV @ 04H	477	N/A	N/A	0
PAL1A	123	94	SLV @ 04H	N/A	PSV @ 04H	478	N/A	N/A	0
PAL1A	125	66	SLV @ 04H	N/A	PSV @ 04H	479	N/A	N/A	0
PAL1A	125	98	SLV @ 04H	N/A	PSV @ 04H	480	N/A	N/A	0
PAL1A	125	102	SLV @ 04H	N/A	PSV @ 04H	481	N/A	N/A	0
PAL1A	127	64	SLV @ 04H	N/A	PSV @ 04H	482	N/A	N/A	0
PAL1A	128	71	SLV @ 04H	N/A	PSV @ 04H	483	N/A	N/A	0
PAL1A	128	81	SLV @ 04H	N/A	PSV @ 04H	484	N/A	N/A	0
PAL1A	128	91	SLV @ 04H	N/A	PSV @ 04H	485	N/A	N/A	0
PAL1A	128	97	SLV @ 04H	N/A	PSV @ 04H	486	N/A	N/A	0
PAL1A	129	74	SLV @ 04H	N/A	PSV @ 04H	487	N/A	N/A	0
PAL1A	129	90	SLV @ 04H	N/A	PSV @ 04H	488	N/A	N/A	0
PAL1A	129	98	SLV @ 04H	N/A	PSV @ 04H	489	N/A	N/A	0
PAL1A	130	65	SLV @ 04H	N/A	PSV @ 04H	490	N/A	N/A	0
PAL1A	130	95	SLV @ 04H	N/A	PSV @ 04H	491	N/A	N/A	0
PAL1A	130	97	SLV @ 04H	N/A	PSV @ 04H	492	N/A	N/A	0
PAL1A	134	65	SLV @ 04H	N/A	CSV @ 04H	493	-1.01	-0.72	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A

IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	134	99	SLV @ 04H	N/A	PSV @ 04H	494	N/A	N/A	0
PAL1A	136	87	SLV @ 04H	N/A	PSV @ 04H	495	N/A	N/A	0
PAL1A	136	89	SLV @ 04H	N/A	PSV @ 04H	496	N/A	N/A	0
PAL1A	137	84	SLV @ 04H	N/A	PSV @ 04H	497	N/A	N/A	0
PAL1A	138	89	SLV @ 04H	N/A	PSV @ 04H	498	N/A	N/A	0
Totals:						498			

Notes (Rev. 0):

- This "In-Service" sleeving list is only for sleeves to be installed at the 4th hot leg support (04H) and will be installed:
 - After** all tubes on the above list have had a sleeve installed at 05H except Tube R19 C44 and all tubes in Rows 1-17 where a sleeve cannot be installed at 05H.
 - Prior** to any sleeves installed at a lower hot leg support (i.e., 03H, 02H, 01H).
- All tubes shall be sleeved using the Alloy 690 Sleeve P/N 8164714-002 (14.5" nominal length).
- During the Sleeve GoGage testing:
 - Tube R19 C44 had a restriction located approximately 8 inches above the 04H support. For this location, exercise caution during insertion of the sleeve to avoid going past the required location. If a restriction is encountered before reaching the required insertion distance, contact Framatomy Engineering for assistance.
 - All other tubes on the above list had a successful Sleeve GoGage result at the support location per 03-8169881-000; therefore, there are no other clearance issues that would prevent the installation of a sleeve.
- All tubes on the above list were in service during plant operation for Cycle 28. Sleeving of de-plugged tubes that are being returned to service is covered under the "RTS" (Return-to-Service) sleeving list. All eddy current testing required by the Degradation Assessment (51-9378492-000) has been completed on these tubes.
- The sleeving strategy implemented at 1D28 uses "corrective" sleeves (CSV) and "preventative" sleeves (PSV) per 51-9388851-001 based on whether a repairable flaw (i.e., volumetric indications $\geq 40\%TW$ or crack-like indications) is identified with ECT at the support location.
The criteria for a "corrective" sleeve based on review of the ECT data is as follows:
 - The repairable flaw must be located within the center 3" of the sleeve assuming 0.75" uncertainty on either end of the sleeve for the 14.5" sleeve; therefore, the flaw extents must be within ± 1.5 " of the center of the support.
 - The repairable flaw must be located at hot leg eggcrate support 01H/02H/03H/04H for tubes in Rows 1-17 or 01H/02H/03H/04H/05H for tubes in Rows 18-138.
- The criteria for a "preventative" sleeve based on review of the ECT data is as follows:
 - There **are no** repairable flaws at the hot leg eggcrate support for this support elevation
 - There **are** repairable flaws at a hot leg eggcrate support below this support elevation
- For the tubes on the above list with corrective sleeves (CSV), the minimum and maximum extent of the flaw(s) at the support are listed as measured from the center of the support from the profile sizing data.
- The tubes on the above list can remain in service following successful sleeve installation. The criteria for the selection of sleeving candidates based on review of the ECT data, is as follows:
 - No volumetric indications $\geq 40\%TW$ or crack-like indications located in the "square-bend" region
 - No volumetric indications $\geq 40\%TW$ or crack-like indications located at the top-of-tubesheet
 - No volumetric indications $\geq 40\%TW$ or crack-like indications located in the freespan outside of any hot leg eggcrate support
 - No volumetric indications $\geq 40\%TW$ or crack-like indications located at the 05H eggcrate support in Rows 1-17 tubes
 - No volumetric indications $\geq 40\%TW$ or crack-like indications located at any location along the cold leg
 - No volumetric indications $\geq 40\%TW$ or crack-like indications located at any hot leg support above 05H

Palisades Steam Generator Operational Assessment for Cycle 29

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Palisades Unit 1 - 1D28 - S/G 1A

IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
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8. The indications in the tubes on the above list were in-service during plant operation of Cycle 28. The indications in these tubes have screened against the in situ screening criteria. None of the indications in the above tubes require in situ testing.

9. Post-sleeving ECT Bobbin will be performed on the tubes on the above list for positional verification. Post-sleeving ECT +Point will be performed on the tubes on the above list over the length of the sleeve to obtain a baseline of the ECT data.

Approvals:
Craig Kelley 6/10/2025 2:47 PM

Craig Kelley
Framatome Integrity Engineering

William C. Williams
Framatome Data Management 6/11/25 0641

Randall L. Johnson
Framatome Lead Analyst 6/12/25

D. Judd Wadzwinski
Utility Representative 6/10/25 03:45 pm

Ambar Rodriguez
6/11/25

Donald Powell
6/12/25

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 1)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	1	156	SLV @ 04H	N/A	PSV @ 04H	1	N/A	N/A	0
PAL1A	2	53	SLV @ 04H	N/A	PSV @ 04H	2	N/A	N/A	0
PAL1A	3	114	SLV @ 04H	N/A	PSV @ 04H	3	N/A	N/A	0
PAL1A	4	15	SLV @ 04H	N/A	PSV @ 04H	4	N/A	N/A	0
PAL1A	4	25	SLV @ 04H	N/A	CSV @ 04H	5	0.05	0.72	0
PAL1A	4	33	SLV @ 04H	N/A	CSV @ 04H	6	0.51	0.93	0
PAL1A	4	55	SLV @ 04H	N/A	PSV @ 04H	7	N/A	N/A	0
PAL1A	4	107	SLV @ 04H	N/A	CSV @ 04H	8	-0.35	0.88	0
PAL1A	4	113	SLV @ 04H	N/A	PSV @ 04H	9	N/A	N/A	0
PAL1A	4	117	SLV @ 04H	N/A	PSV @ 04H	10	N/A	N/A	0
PAL1A	5	110	SLV @ 04H	N/A	PSV @ 04H	11	N/A	N/A	0
PAL1A	7	56	SLV @ 04H	N/A	PSV @ 04H	12	N/A	N/A	0
PAL1A	7	58	SLV @ 04H	N/A	PSV @ 04H	13	N/A	N/A	0
PAL1A	7	106	SLV @ 04H	N/A	PSV @ 04H	14	N/A	N/A	0
PAL1A	7	112	SLV @ 04H	N/A	CSV @ 04H	15	0.43	0.80	0
PAL1A	7	118	SLV @ 04H	N/A	PSV @ 04H	16	N/A	N/A	0
PAL1A	7	122	SLV @ 04H	N/A	PSV @ 04H	17	N/A	N/A	0
PAL1A	7	126	SLV @ 04H	N/A	CSV @ 04H	18	-0.69	0.93	0
PAL1A	8	13	SLV @ 04H	N/A	PSV @ 04H	19	N/A	N/A	0
PAL1A	8	107	SLV @ 04H	N/A	PSV @ 04H	20	N/A	N/A	0
PAL1A	8	109	SLV @ 04H	N/A	CSV @ 04H	21	0.24	0.77	0
PAL1A	8	113	SLV @ 04H	N/A	CSV @ 04H	22	-0.72	-0.43	0
PAL1A	8	117	SLV @ 04H	N/A	PSV @ 04H	23	N/A	N/A	0
PAL1A	8	121	SLV @ 04H	N/A	PSV @ 04H	24	N/A	N/A	0
PAL1A	9	130	SLV @ 04H	N/A	CSV @ 04H	25	0.53	0.93	0
PAL1A	10	19	SLV @ 04H	N/A	PSV @ 04H	26	N/A	N/A	0
PAL1A	10	53	SLV @ 04H	N/A	PSV @ 04H	27	N/A	N/A	0
PAL1A	10	117	SLV @ 04H	N/A	PSV @ 04H	28	N/A	N/A	0
PAL1A	10	125	SLV @ 04H	N/A	PSV @ 04H	29	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 1)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	10	129	SLV @ 04H	N/A	PSV @ 04H	30	N/A	N/A	0
PAL1A	10	131	SLV @ 04H	N/A	CSV @ 04H	31	-0.32	-0.11	0
PAL1A	10	133	SLV @ 04H	N/A	PSV @ 04H	32	N/A	N/A	0
PAL1A	10	153	SLV @ 04H	N/A	PSV @ 04H	33	N/A	N/A	0
PAL1A	11	40	SLV @ 04H	N/A	PSV @ 04H	34	N/A	N/A	0
PAL1A	11	50	SLV @ 04H	N/A	PSV @ 04H	35	N/A	N/A	0
PAL1A	11	116	SLV @ 04H	N/A	PSV @ 04H	36	N/A	N/A	0
PAL1A	11	118	SLV @ 04H	N/A	PSV @ 04H	37	N/A	N/A	0
PAL1A	11	120	SLV @ 04H	N/A	PSV @ 04H	38	N/A	N/A	0
PAL1A	11	134	SLV @ 04H	N/A	PSV @ 04H	39	N/A	N/A	0
PAL1A	11	136	SLV @ 04H	N/A	CSV @ 04H	40	0.67	1.01	0
PAL1A	11	146	SLV @ 04H	N/A	PSV @ 04H	41	N/A	N/A	0
PAL1A	12	19	SLV @ 04H	N/A	PSV @ 04H	42	N/A	N/A	0
PAL1A	12	111	SLV @ 04H	N/A	PSV @ 04H	43	N/A	N/A	0
PAL1A	12	113	SLV @ 04H	N/A	PSV @ 04H	44	N/A	N/A	0
PAL1A	12	155	SLV @ 04H	N/A	PSV @ 04H	45	N/A	N/A	0
PAL1A	13	36	SLV @ 04H	N/A	CSV @ 04H	46	-0.77	0.61	0
PAL1A	13	58	SLV @ 04H	N/A	PSV @ 04H	47	N/A	N/A	0
PAL1A	13	124	SLV @ 04H	N/A	PSV @ 04H	48	N/A	N/A	0
PAL1A	13	140	SLV @ 04H	N/A	CSV @ 04H	49	0.40	0.96	0
PAL1A	14	5	SLV @ 04H	N/A	PSV @ 04H	50	N/A	N/A	0
PAL1A	14	57	SLV @ 04H	N/A	CSV @ 04H	51	-0.32	0.32	0
PAL1A	14	107	SLV @ 04H	N/A	PSV @ 04H	52	N/A	N/A	0
PAL1A	14	117	SLV @ 04H	N/A	PSV @ 04H	53	N/A	N/A	0
PAL1A	14	121	SLV @ 04H	N/A	PSV @ 04H	54	N/A	N/A	0
PAL1A	14	133	SLV @ 04H	N/A	CSV @ 04H	55	-1.04	-0.75	0
PAL1A	15	48	SLV @ 04H	N/A	PSV @ 04H	56	N/A	N/A	0
PAL1A	15	50	SLV @ 04H	N/A	PSV @ 04H	57	N/A	N/A	0
PAL1A	15	104	SLV @ 04H	N/A	PSV @ 04H	58	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 1)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	15	110	SLV @ 04H	N/A	PSV @ 04H	59	N/A	N/A	0
PAL1A	15	112	SLV @ 04H	N/A	CSV @ 04H	60	0.13	0.35	0
PAL1A	15	116	SLV @ 04H	N/A	CSV @ 04H	61	0.77	0.91	0
PAL1A	15	124	SLV @ 04H	N/A	PSV @ 04H	62	N/A	N/A	0
PAL1A	15	128	SLV @ 04H	N/A	CSV @ 04H	63	-0.37	0.83	0
PAL1A	15	134	SLV @ 04H	N/A	CSV @ 04H	64	-0.16	0.93	0
PAL1A	15	140	SLV @ 04H	N/A	CSV @ 04H	65	-1.04	0.48	0
PAL1A	15	152	SLV @ 04H	N/A	PSV @ 04H	66	N/A	N/A	0
PAL1A	15	158	SLV @ 04H	N/A	PSV @ 04H	67	N/A	N/A	0
PAL1A	16	19	SLV @ 04H	N/A	CSV @ 04H	68	-0.51	0.93	0
PAL1A	16	109	SLV @ 04H	N/A	PSV @ 04H	69	N/A	N/A	0
PAL1A	16	113	SLV @ 04H	N/A	PSV @ 04H	70	N/A	N/A	0
PAL1A	16	115	SLV @ 04H	N/A	PSV @ 04H	71	N/A	N/A	0
PAL1A	16	129	SLV @ 04H	N/A	CSV @ 04H	72	-1.12	-0.19	0
PAL1A	17	44	SLV @ 04H	N/A	PSV @ 04H	73	N/A	N/A	0
PAL1A	17	60	SLV @ 04H	N/A	CSV @ 04H	74	-0.67	-0.21	0
PAL1A	17	106	SLV @ 04H	N/A	PSV @ 04H	75	N/A	N/A	0
PAL1A	17	110	SLV @ 04H	N/A	PSV @ 04H	76	N/A	N/A	0
PAL1A	17	112	SLV @ 04H	N/A	PSV @ 04H	77	N/A	N/A	0
PAL1A	17	114	SLV @ 04H	N/A	PSV @ 04H	78	N/A	N/A	0
PAL1A	17	118	SLV @ 04H	N/A	PSV @ 04H	79	N/A	N/A	0
PAL1A	17	120	SLV @ 04H	N/A	CSV @ 04H	80	0.16	0.48	0
PAL1A	17	126	SLV @ 04H	N/A	PSV @ 04H	81	N/A	N/A	0
PAL1A	17	132	SLV @ 04H	N/A	PSV @ 04H	82	N/A	N/A	0
PAL1A	17	148	SLV @ 04H	N/A	CSV @ 04H	83	0.21	1.04	0
PAL1A	17	150	SLV @ 04H	N/A	PSV @ 04H	84	N/A	N/A	0
PAL1A	18	37	SLV @ 04H	N/A	PSV @ 04H	85	N/A	N/A	0
PAL1A	18	47	SLV @ 04H	N/A	PSV @ 04H	86	N/A	N/A	0
PAL1A	18	49	SLV @ 04H	N/A	CSV @ 04H	87	-0.85	-0.43	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 1)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	18	105	SLV @ 04H	N/A	PSV @ 04H	88	N/A	N/A	0
PAL1A	18	117	SLV @ 04H	N/A	PSV @ 04H	89	N/A	N/A	0
PAL1A	18	121	SLV @ 04H	N/A	PSV @ 04H	90	N/A	N/A	0
PAL1A	18	123	SLV @ 04H	N/A	PSV @ 04H	91	N/A	N/A	0
PAL1A	18	129	SLV @ 04H	N/A	CSV @ 04H	92	-0.99	-0.24	0
PAL1A	18	135	SLV @ 04H	N/A	PSV @ 04H	93	N/A	N/A	0
PAL1A	18	145	SLV @ 04H	N/A	CSV @ 04H	94	-0.32	0.00	0
PAL1A	19	44	SLV @ 04H (See Note 4a)	N/A	PSV @ 04H	95	N/A	N/A	0
PAL1A	19	46	SLV @ 04H	N/A	PSV @ 04H	96	N/A	N/A	0
PAL1A	19	62	SLV @ 04H	N/A	PSV @ 04H	97	N/A	N/A	0
PAL1A	19	104	SLV @ 04H	N/A	CSV @ 04H	98	0.83	0.99	0
PAL1A	19	106	SLV @ 04H	N/A	PSV @ 04H	99	N/A	N/A	0
PAL1A	19	112	SLV @ 04H	N/A	PSV @ 04H	100	N/A	N/A	0
PAL1A	19	114	SLV @ 04H	N/A	CSV @ 04H	101	0.21	0.61	0
PAL1A	19	120	SLV @ 04H	N/A	PSV @ 04H	102	N/A	N/A	0
PAL1A	19	122	SLV @ 04H	N/A	CSV @ 04H	103	0.77	0.96	0
PAL1A	19	126	SLV @ 04H	N/A	PSV @ 04H	104	N/A	N/A	0
PAL1A	19	128	SLV @ 04H	N/A	PSV @ 04H	105	N/A	N/A	0
PAL1A	19	148	SLV @ 04H	N/A	PSV @ 04H	106	N/A	N/A	0
PAL1A	20	15	SLV @ 04H	N/A	PSV @ 04H	107	N/A	N/A	0
PAL1A	21	42	SLV @ 04H	N/A	CSV @ 04H	108	0.16	1.04	0
PAL1A	21	56	SLV @ 04H	N/A	CSV @ 04H	109	0.69	1.01	0
PAL1A	21	102	SLV @ 04H	N/A	CSV @ 04H	110	0.40	0.93	0
PAL1A	21	104	SLV @ 04H	N/A	CSV @ 04H	111	-0.85	1.01	0
PAL1A	21	106	SLV @ 04H	N/A	CSV @ 04H	112	0.16	0.67	0
PAL1A	21	110	SLV @ 04H	N/A	PSV @ 04H	113	N/A	N/A	0
PAL1A	21	118	SLV @ 04H	N/A	PSV @ 04H	114	N/A	N/A	0
PAL1A	21	128	SLV @ 04H	N/A	CSV @ 04H	115	0.37	0.96	0
PAL1A	21	156	SLV @ 04H	N/A	CSV @ 04H	116	0.45	1.01	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 1)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	22	37	SLV @ 04H	N/A	CSV @ 04H	117	-0.75	-0.37	0
PAL1A	22	61	SLV @ 04H	N/A	CSV @ 04H	118	-0.99	-0.08	0
PAL1A	22	105	SLV @ 04H	N/A	PSV @ 04H	119	N/A	N/A	0
PAL1A	22	107	SLV @ 04H	N/A	PSV @ 04H	120	N/A	N/A	0
PAL1A	23	50	SLV @ 04H	N/A	PSV @ 04H	121	N/A	N/A	0
PAL1A	23	58	SLV @ 04H	N/A	CSV @ 04H	122	-1.01	-0.80	0
PAL1A	23	60	SLV @ 04H	N/A	CSV @ 04H	123	-0.69	0.00	0
PAL1A	23	116	SLV @ 04H	N/A	PSV @ 04H	124	N/A	N/A	0
PAL1A	23	122	SLV @ 04H	N/A	PSV @ 04H	125	N/A	N/A	0
PAL1A	23	132	SLV @ 04H	N/A	PSV @ 04H	126	N/A	N/A	0
PAL1A	23	150	SLV @ 04H	N/A	PSV @ 04H	127	N/A	N/A	0
PAL1A	24	47	SLV @ 04H	N/A	PSV @ 04H	128	N/A	N/A	0
PAL1A	24	107	SLV @ 04H	N/A	CSV @ 04H	129	-0.21	-0.05	0
PAL1A	24	133	SLV @ 04H	N/A	PSV @ 04H	130	N/A	N/A	0
PAL1A	24	159	SLV @ 04H	N/A	PSV @ 04H	131	N/A	N/A	0
PAL1A	25	62	SLV @ 04H	N/A	CSV @ 04H	132	0.80	1.04	0
PAL1A	25	102	SLV @ 04H	N/A	CSV @ 04H	133	-1.01	1.01	0
PAL1A	25	108	SLV @ 04H	N/A	CSV @ 04H	134	-0.77	0.93	0
PAL1A	25	124	SLV @ 04H	N/A	CSV @ 04H	135	-0.64	0.91	0
PAL1A	25	128	SLV @ 04H	N/A	PSV @ 04H	136	N/A	N/A	0
PAL1A	25	140	SLV @ 04H	N/A	PSV @ 04H	137	N/A	N/A	0
PAL1A	25	146	SLV @ 04H	N/A	CSV @ 04H	138	0.75	0.96	0
PAL1A	25	154	SLV @ 04H	N/A	PSV @ 04H	139	N/A	N/A	0
PAL1A	26	63	SLV @ 04H	N/A	CSV @ 04H	140	-0.27	0.59	0
PAL1A	26	111	SLV @ 04H	N/A	CSV @ 04H	141	-0.32	-0.16	0
PAL1A	26	115	SLV @ 04H	N/A	CSV @ 04H	142	-0.99	-0.11	0
PAL1A	26	117	SLV @ 04H	N/A	PSV @ 04H	143	N/A	N/A	0
PAL1A	26	139	SLV @ 04H	N/A	PSV @ 04H	144	N/A	N/A	0
PAL1A	26	157	SLV @ 04H	N/A	CSV @ 04H	145	-0.83	-0.35	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 1)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	27	46	SLV @ 04H	N/A	PSV @ 04H	146	N/A	N/A	0
PAL1A	27	56	SLV @ 04H	N/A	CSV @ 04H	147	0.56	1.01	0
PAL1A	27	60	SLV @ 04H	N/A	CSV @ 04H	148	-0.99	-0.69	0
PAL1A	27	62	SLV @ 04H	N/A	CSV @ 04H	149	-0.93	0.61	0
PAL1A	27	104	SLV @ 04H	N/A	PSV @ 04H	150	N/A	N/A	0
PAL1A	27	108	SLV @ 04H	N/A	CSV @ 04H	151	-0.59	0.80	0
PAL1A	27	110	SLV @ 04H	N/A	CSV @ 04H	152	-0.03	0.29	0
PAL1A	27	114	SLV @ 04H	N/A	PSV @ 04H	153	N/A	N/A	0
PAL1A	27	134	SLV @ 04H	N/A	PSV @ 04H	154	N/A	N/A	0
PAL1A	27	140	SLV @ 04H	N/A	CSV @ 04H	155	0.35	0.91	0
PAL1A	27	148	SLV @ 04H	N/A	CSV @ 04H	156	0.56	1.01	0
PAL1A	27	152	SLV @ 04H	N/A	PSV @ 04H	157	N/A	N/A	0
PAL1A	27	158	SLV @ 04H	N/A	CSV @ 04H	158	0.11	1.01	0
PAL1A	28	55	SLV @ 04H	N/A	PSV @ 04H	159	N/A	N/A	0
PAL1A	28	63	SLV @ 04H	N/A	PSV @ 04H	160	N/A	N/A	0
PAL1A	28	105	SLV @ 04H	N/A	PSV @ 04H	161	N/A	N/A	0
PAL1A	29	28	SLV @ 04H	N/A	PSV @ 04H	162	N/A	N/A	0
PAL1A	29	52	SLV @ 04H	N/A	PSV @ 04H	163	N/A	N/A	0
PAL1A	29	102	SLV @ 04H	N/A	CSV @ 04H	164	-0.91	-0.53	0
PAL1A	29	104	SLV @ 04H	N/A	CSV @ 04H	165	-0.40	0.96	0
PAL1A	29	106	SLV @ 04H	N/A	PSV @ 04H	166	N/A	N/A	0
PAL1A	29	130	SLV @ 04H	N/A	PSV @ 04H	167	N/A	N/A	0
PAL1A	29	152	SLV @ 04H	N/A	PSV @ 04H	168	N/A	N/A	0
PAL1A	30	107	SLV @ 04H	N/A	CSV @ 04H	169	-0.91	-0.53	0
PAL1A	31	54	SLV @ 04H	N/A	PSV @ 04H	170	N/A	N/A	0
PAL1A	32	103	SLV @ 04H	N/A	CSV @ 04H	171	0.08	0.32	0
PAL1A	32	105	SLV @ 04H	N/A	CSV @ 04H	172	-0.77	-0.67	0
PAL1A	32	107	SLV @ 04H	N/A	PSV @ 04H	173	N/A	N/A	0
PAL1A	32	113	SLV @ 04H	N/A	PSV @ 04H	174	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 1)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	32	155	SLV @ 04H	N/A	PSV @ 04H	175	N/A	N/A	0
PAL1A	33	16	SLV @ 04H	N/A	PSV @ 04H	176	N/A	N/A	0
PAL1A	33	26	SLV @ 04H	N/A	PSV @ 04H	177	N/A	N/A	0
PAL1A	33	54	SLV @ 04H	N/A	CSV @ 04H	178	0.69	0.99	0
PAL1A	33	56	SLV @ 04H	N/A	PSV @ 04H	179	N/A	N/A	0
PAL1A	33	60	SLV @ 04H	N/A	CSV @ 04H	180	0.88	1.07	0
PAL1A	33	106	SLV @ 04H	N/A	CSV @ 04H	181	-0.16	0.40	0
PAL1A	33	108	SLV @ 04H	N/A	PSV @ 04H	182	N/A	N/A	0
PAL1A	33	110	SLV @ 04H	N/A	PSV @ 04H	183	N/A	N/A	0
PAL1A	33	112	SLV @ 04H	N/A	PSV @ 04H	184	N/A	N/A	0
PAL1A	33	144	SLV @ 04H	N/A	CSV @ 04H	185	0.77	0.96	0
PAL1A	33	146	SLV @ 04H	N/A	PSV @ 04H	186	N/A	N/A	0
PAL1A	34	23	SLV @ 04H	N/A	PSV @ 04H	187	N/A	N/A	0
PAL1A	34	59	SLV @ 04H	N/A	PSV @ 04H	188	N/A	N/A	0
PAL1A	35	58	SLV @ 04H	N/A	PSV @ 04H	189	N/A	N/A	0
PAL1A	35	102	SLV @ 04H	N/A	CSV @ 04H	190	-0.80	0.51	0
PAL1A	35	104	SLV @ 04H	N/A	CSV @ 04H	191	-0.16	-0.03	0
PAL1A	35	106	SLV @ 04H	N/A	PSV @ 04H	192	N/A	N/A	0
PAL1A	35	150	SLV @ 04H	N/A	CSV @ 04H	193	0.61	0.99	0
PAL1A	36	43	SLV @ 04H	N/A	CSV @ 04H	194	-0.72	-0.29	0
PAL1A	36	59	SLV @ 04H	N/A	PSV @ 04H	195	N/A	N/A	0
PAL1A	36	103	SLV @ 04H	N/A	PSV @ 04H	196	N/A	N/A	0
PAL1A	36	105	SLV @ 04H	N/A	PSV @ 04H	197	N/A	N/A	0
PAL1A	36	111	SLV @ 04H	N/A	PSV @ 04H	198	N/A	N/A	0
PAL1A	37	106	SLV @ 04H	N/A	CSV @ 04H	199	0.61	0.80	0
PAL1A	37	116	SLV @ 04H	N/A	PSV @ 04H	200	N/A	N/A	0
PAL1A	38	57	SLV @ 04H	N/A	PSV @ 04H	201	N/A	N/A	0
PAL1A	38	109	SLV @ 04H	N/A	PSV @ 04H	202	N/A	N/A	0
PAL1A	38	137	SLV @ 04H	N/A	PSV @ 04H	203	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 1)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	39	60	SLV @ 04H	N/A	PSV @ 04H	204	N/A	N/A	0
PAL1A	39	108	SLV @ 04H	N/A	PSV @ 04H	205	N/A	N/A	0
PAL1A	39	110	SLV @ 04H	N/A	PSV @ 04H	206	N/A	N/A	0
PAL1A	39	120	SLV @ 04H	N/A	PSV @ 04H	207	N/A	N/A	0
PAL1A	39	122	SLV @ 04H	N/A	CSV @ 04H	208	0.75	0.93	0
PAL1A	40	111	SLV @ 04H	N/A	CSV @ 04H	209	-0.75	-0.59	0
PAL1A	40	129	SLV @ 04H	N/A	PSV @ 04H	210	N/A	N/A	0
PAL1A	41	108	SLV @ 04H	N/A	CSV @ 04H	211	0.88	0.99	0
PAL1A	43	112	SLV @ 04H	N/A	PSV @ 04H	212	N/A	N/A	0
PAL1A	44	59	SLV @ 04H	N/A	PSV @ 04H	213	N/A	N/A	0
PAL1A	44	99	SLV @ 04H	N/A	PSV @ 04H	214	N/A	N/A	0
PAL1A	44	105	SLV @ 04H	N/A	PSV @ 04H	215	N/A	N/A	0
PAL1A	45	58	SLV @ 04H	N/A	PSV @ 04H	216	N/A	N/A	0
PAL1A	45	104	SLV @ 04H	N/A	PSV @ 04H	217	N/A	N/A	0
PAL1A	45	158	SLV @ 04H	N/A	PSV @ 04H	218	N/A	N/A	0
PAL1A	46	35	SLV @ 04H	N/A	PSV @ 04H	219	N/A	N/A	0
PAL1A	46	59	SLV @ 04H	N/A	PSV @ 04H	220	N/A	N/A	0
PAL1A	46	67	SLV @ 04H	N/A	CSV @ 04H	221	0.69	0.96	0
PAL1A	46	111	SLV @ 04H	N/A	CSV @ 04H	222	-0.99	-0.11	0
PAL1A	46	121	SLV @ 04H	N/A	PSV @ 04H	223	N/A	N/A	0
PAL1A	46	125	SLV @ 04H	N/A	PSV @ 04H	224	N/A	N/A	0
PAL1A	46	145	SLV @ 04H	N/A	PSV @ 04H	225	N/A	N/A	0
PAL1A	47	48	SLV @ 04H	N/A	PSV @ 04H	226	N/A	N/A	0
PAL1A	47	62	SLV @ 04H	N/A	PSV @ 04H	227	N/A	N/A	0
PAL1A	47	108	SLV @ 04H	N/A	CSV @ 04H	228	0.19	1.07	0
PAL1A	47	126	SLV @ 04H	N/A	CSV @ 04H	229	0.51	1.01	0
PAL1A	48	45	SLV @ 04H	N/A	PSV @ 04H	230	N/A	N/A	0
PAL1A	48	69	SLV @ 04H	N/A	PSV @ 04H	231	N/A	N/A	0
PAL1A	48	105	SLV @ 04H	N/A	PSV @ 04H	232	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 1)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	48	113	SLV @ 04H	N/A	PSV @ 04H	233	N/A	N/A	0
PAL1A	49	100	SLV @ 04H	N/A	PSV @ 04H	234	N/A	N/A	0
PAL1A	49	102	SLV @ 04H	N/A	PSV @ 04H	235	N/A	N/A	0
PAL1A	49	108	SLV @ 04H	N/A	PSV @ 04H	236	N/A	N/A	0
PAL1A	49	110	SLV @ 04H	N/A	PSV @ 04H	237	N/A	N/A	0
PAL1A	50	99	SLV @ 04H	N/A	PSV @ 04H	238	N/A	N/A	0
PAL1A	50	101	SLV @ 04H	N/A	PSV @ 04H	239	N/A	N/A	0
PAL1A	50	113	SLV @ 04H	N/A	PSV @ 04H	240	N/A	N/A	0
PAL1A	52	97	SLV @ 04H	N/A	PSV @ 04H	241	N/A	N/A	0
PAL1A	56	85	SLV @ 04H	N/A	PSV @ 04H	242	N/A	N/A	0
PAL1A	56	111	SLV @ 04H	N/A	PSV @ 04H	243	N/A	N/A	0
PAL1A	57	52	SLV @ 04H	N/A	PSV @ 04H	244	N/A	N/A	0
PAL1A	57	68	SLV @ 04H	N/A	PSV @ 04H	245	N/A	N/A	0
PAL1A	57	90	SLV @ 04H	N/A	PSV @ 04H	246	N/A	N/A	0
PAL1A	57	112	SLV @ 04H	N/A	PSV @ 04H	247	N/A	N/A	0
PAL1A	57	134	SLV @ 04H	N/A	PSV @ 04H	248	N/A	N/A	0
PAL1A	58	69	SLV @ 04H	N/A	PSV @ 04H	249	N/A	N/A	0
PAL1A	58	101	SLV @ 04H	N/A	PSV @ 04H	250	N/A	N/A	0
PAL1A	60	91	SLV @ 04H	N/A	PSV @ 04H	251	N/A	N/A	0
PAL1A	60	93	SLV @ 04H	N/A	PSV @ 04H	252	N/A	N/A	0
PAL1A	60	95	SLV @ 04H	N/A	PSV @ 04H	253	N/A	N/A	0
PAL1A	60	97	SLV @ 04H	N/A	PSV @ 04H	254	N/A	N/A	0
PAL1A	61	106	SLV @ 04H	N/A	PSV @ 04H	255	N/A	N/A	0
PAL1A	61	110	SLV @ 04H	N/A	PSV @ 04H	256	N/A	N/A	0
PAL1A	61	118	SLV @ 04H	N/A	PSV @ 04H	257	N/A	N/A	0
PAL1A	63	38	SLV @ 04H	N/A	PSV @ 04H	258	N/A	N/A	0
PAL1A	63	48	SLV @ 04H	N/A	PSV @ 04H	259	N/A	N/A	0
PAL1A	63	86	SLV @ 04H	N/A	PSV @ 04H	260	N/A	N/A	0
PAL1A	63	90	SLV @ 04H	N/A	PSV @ 04H	261	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 1)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	64	93	SLV @ 04H	N/A	PSV @ 04H	262	N/A	N/A	0
PAL1A	64	95	SLV @ 04H	N/A	PSV @ 04H	263	N/A	N/A	0
PAL1A	65	114	SLV @ 04H	N/A	PSV @ 04H	264	N/A	N/A	0
PAL1A	66	77	SLV @ 04H	N/A	PSV @ 04H	265	N/A	N/A	0
PAL1A	66	95	SLV @ 04H	N/A	PSV @ 04H	266	N/A	N/A	0
PAL1A	67	88	SLV @ 04H	N/A	PSV @ 04H	267	N/A	N/A	0
PAL1A	67	96	SLV @ 04H	N/A	PSV @ 04H	268	N/A	N/A	0
PAL1A	68	83	SLV @ 04H	N/A	PSV @ 04H	269	N/A	N/A	0
PAL1A	68	95	SLV @ 04H	N/A	PSV @ 04H	270	N/A	N/A	0
PAL1A	69	62	SLV @ 04H	N/A	PSV @ 04H	271	N/A	N/A	0
PAL1A	69	78	SLV @ 04H	N/A	PSV @ 04H	272	N/A	N/A	0
PAL1A	69	86	SLV @ 04H	N/A	PSV @ 04H	273	N/A	N/A	0
PAL1A	69	88	SLV @ 04H	N/A	PSV @ 04H	274	N/A	N/A	0
PAL1A	69	90	SLV @ 04H	N/A	PSV @ 04H	275	N/A	N/A	0
PAL1A	69	92	SLV @ 04H	N/A	PSV @ 04H	276	N/A	N/A	0
PAL1A	69	94	SLV @ 04H	N/A	PSV @ 04H	277	N/A	N/A	0
PAL1A	70	15	SLV @ 04H	N/A	PSV @ 04H	278	N/A	N/A	0
PAL1A	70	23	SLV @ 04H	N/A	PSV @ 04H	279	N/A	N/A	0
PAL1A	70	87	SLV @ 04H	N/A	PSV @ 04H	280	N/A	N/A	0
PAL1A	70	93	SLV @ 04H	N/A	PSV @ 04H	281	N/A	N/A	0
PAL1A	70	111	SLV @ 04H	N/A	PSV @ 04H	282	N/A	N/A	0
PAL1A	70	117	SLV @ 04H	N/A	CSV @ 04H	283	-0.99	-0.56	0
PAL1A	70	131	SLV @ 04H	N/A	PSV @ 04H	284	N/A	N/A	0
PAL1A	70	153	SLV @ 04H	N/A	PSV @ 04H	285	N/A	N/A	0
PAL1A	71	48	SLV @ 04H	N/A	PSV @ 04H	286	N/A	N/A	0
PAL1A	71	58	SLV @ 04H	N/A	CSV @ 04H	287	0.69	0.83	0
PAL1A	71	92	SLV @ 04H	N/A	PSV @ 04H	288	N/A	N/A	0
PAL1A	71	102	SLV @ 04H	N/A	PSV @ 04H	289	N/A	N/A	0
PAL1A	71	110	SLV @ 04H	N/A	PSV @ 04H	290	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 1)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	71	122	SLV @ 04H	N/A	CSV @ 04H	291	0.80	1.07	0
PAL1A	72	57	SLV @ 04H	N/A	PSV @ 04H	292	N/A	N/A	0
PAL1A	72	83	SLV @ 04H	N/A	PSV @ 04H	293	N/A	N/A	0
PAL1A	72	85	SLV @ 04H	N/A	PSV @ 04H	294	N/A	N/A	0
PAL1A	72	89	SLV @ 04H	N/A	PSV @ 04H	295	N/A	N/A	0
PAL1A	72	91	SLV @ 04H	N/A	PSV @ 04H	296	N/A	N/A	0
PAL1A	73	58	SLV @ 04H	N/A	PSV @ 04H	297	N/A	N/A	0
PAL1A	73	72	SLV @ 04H	N/A	PSV @ 04H	298	N/A	N/A	0
PAL1A	73	78	SLV @ 04H	N/A	PSV @ 04H	299	N/A	N/A	0
PAL1A	73	80	SLV @ 04H	N/A	PSV @ 04H	300	N/A	N/A	0
PAL1A	73	86	SLV @ 04H	N/A	PSV @ 04H	301	N/A	N/A	0
PAL1A	74	85	SLV @ 04H	N/A	PSV @ 04H	302	N/A	N/A	0
PAL1A	74	95	SLV @ 04H	N/A	PSV @ 04H	303	N/A	N/A	0
PAL1A	74	101	SLV @ 04H	N/A	PSV @ 04H	304	N/A	N/A	0
PAL1A	74	105	SLV @ 04H	N/A	PSV @ 04H	305	N/A	N/A	0
PAL1A	75	84	SLV @ 04H	N/A	PSV @ 04H	306	N/A	N/A	0
PAL1A	75	92	SLV @ 04H	N/A	CSV @ 04H	307	0.11	0.51	0
PAL1A	75	94	SLV @ 04H	N/A	PSV @ 04H	308	N/A	N/A	0
PAL1A	77	54	SLV @ 04H	N/A	PSV @ 04H	309	N/A	N/A	0
PAL1A	77	74	SLV @ 04H	N/A	CSV @ 04H	310	0.88	1.01	0
PAL1A	77	90	SLV @ 04H	N/A	PSV @ 04H	311	N/A	N/A	0
PAL1A	77	124	SLV @ 04H	N/A	PSV @ 04H	312	N/A	N/A	0
PAL1A	77	126	SLV @ 04H	N/A	PSV @ 04H	313	N/A	N/A	0
PAL1A	78	41	SLV @ 04H	N/A	PSV @ 04H	314	N/A	N/A	0
PAL1A	78	73	SLV @ 04H	N/A	PSV @ 04H	315	N/A	N/A	0
PAL1A	78	87	SLV @ 04H	N/A	PSV @ 04H	316	N/A	N/A	0
PAL1A	78	103	SLV @ 04H	N/A	PSV @ 04H	317	N/A	N/A	0
PAL1A	78	113	SLV @ 04H	N/A	PSV @ 04H	318	N/A	N/A	0
PAL1A	80	79	SLV @ 04H	N/A	PSV @ 04H	319	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 1)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	80	99	SLV @ 04H	N/A	PSV @ 04H	320	N/A	N/A	0
PAL1A	80	113	SLV @ 04H	N/A	PSV @ 04H	321	N/A	N/A	0
PAL1A	81	80	SLV @ 04H	N/A	PSV @ 04H	322	N/A	N/A	0
PAL1A	81	110	SLV @ 04H	N/A	PSV @ 04H	323	N/A	N/A	0
PAL1A	82	87	SLV @ 04H	N/A	PSV @ 04H	324	N/A	N/A	0
PAL1A	82	101	SLV @ 04H	N/A	PSV @ 04H	325	N/A	N/A	0
PAL1A	82	109	SLV @ 04H	N/A	PSV @ 04H	326	N/A	N/A	0
PAL1A	83	96	SLV @ 04H	N/A	PSV @ 04H	327	N/A	N/A	0
PAL1A	83	98	SLV @ 04H	N/A	PSV @ 04H	328	N/A	N/A	0
PAL1A	83	102	SLV @ 04H	N/A	PSV @ 04H	329	N/A	N/A	0
PAL1A	84	59	SLV @ 04H	N/A	PSV @ 04H	330	N/A	N/A	0
PAL1A	84	93	SLV @ 04H	N/A	PSV @ 04H	331	N/A	N/A	0
PAL1A	85	110	SLV @ 04H	N/A	PSV @ 04H	332	N/A	N/A	0
PAL1A	86	93	SLV @ 04H	N/A	PSV @ 04H	333	N/A	N/A	0
PAL1A	88	47	SLV @ 04H	N/A	PSV @ 04H	334	N/A	N/A	0
PAL1A	88	83	SLV @ 04H	N/A	PSV @ 04H	335	N/A	N/A	0
PAL1A	88	93	SLV @ 04H	N/A	PSV @ 04H	336	N/A	N/A	0
PAL1A	88	97	SLV @ 04H	N/A	PSV @ 04H	337	N/A	N/A	0
PAL1A	88	99	SLV @ 04H	N/A	PSV @ 04H	338	N/A	N/A	0
PAL1A	88	105	SLV @ 04H	N/A	PSV @ 04H	339	N/A	N/A	0
PAL1A	88	107	SLV @ 04H	N/A	PSV @ 04H	340	N/A	N/A	0
PAL1A	88	115	SLV @ 04H	N/A	PSV @ 04H	341	N/A	N/A	0
PAL1A	89	54	SLV @ 04H	N/A	PSV @ 04H	342	N/A	N/A	0
PAL1A	89	90	SLV @ 04H	N/A	PSV @ 04H	343	N/A	N/A	0
PAL1A	89	96	SLV @ 04H	N/A	PSV @ 04H	344	N/A	N/A	0
PAL1A	89	98	SLV @ 04H	N/A	PSV @ 04H	345	N/A	N/A	0
PAL1A	89	114	SLV @ 04H	N/A	PSV @ 04H	346	N/A	N/A	0
PAL1A	90	59	SLV @ 04H	N/A	PSV @ 04H	347	N/A	N/A	0
PAL1A	90	89	SLV @ 04H	N/A	PSV @ 04H	348	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 1)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	90	125	SLV @ 04H	N/A	PSV @ 04H	349	N/A	N/A	0
PAL1A	91	64	SLV @ 04H	N/A	PSV @ 04H	350	N/A	N/A	0
PAL1A	91	70	SLV @ 04H	N/A	PSV @ 04H	351	N/A	N/A	0
PAL1A	91	72	SLV @ 04H	N/A	PSV @ 04H	352	N/A	N/A	0
PAL1A	91	78	SLV @ 04H	N/A	PSV @ 04H	353	N/A	N/A	0
PAL1A	91	84	SLV @ 04H	N/A	PSV @ 04H	354	N/A	N/A	0
PAL1A	91	88	SLV @ 04H	N/A	PSV @ 04H	355	N/A	N/A	0
PAL1A	91	90	SLV @ 04H	N/A	PSV @ 04H	356	N/A	N/A	0
PAL1A	91	94	SLV @ 04H	N/A	PSV @ 04H	357	N/A	N/A	0
PAL1A	91	96	SLV @ 04H	N/A	PSV @ 04H	358	N/A	N/A	0
PAL1A	91	98	SLV @ 04H	N/A	PSV @ 04H	359	N/A	N/A	0
PAL1A	91	100	SLV @ 04H	N/A	PSV @ 04H	360	N/A	N/A	0
PAL1A	91	104	SLV @ 04H	N/A	PSV @ 04H	361	N/A	N/A	0
PAL1A	91	124	SLV @ 04H	N/A	PSV @ 04H	362	N/A	N/A	0
PAL1A	92	25	SLV @ 04H	N/A	PSV @ 04H	363	N/A	N/A	0
PAL1A	92	45	SLV @ 04H	N/A	PSV @ 04H	364	N/A	N/A	0
PAL1A	92	95	SLV @ 04H	N/A	PSV @ 04H	365	N/A	N/A	0
PAL1A	92	97	SLV @ 04H	N/A	PSV @ 04H	366	N/A	N/A	0
PAL1A	92	101	SLV @ 04H	N/A	PSV @ 04H	367	N/A	N/A	0
PAL1A	92	107	SLV @ 04H	N/A	PSV @ 04H	368	N/A	N/A	0
PAL1A	92	109	SLV @ 04H	N/A	PSV @ 04H	369	N/A	N/A	0
PAL1A	92	113	SLV @ 04H	N/A	PSV @ 04H	370	N/A	N/A	0
PAL1A	93	26	SLV @ 04H	N/A	PSV @ 04H	371	N/A	N/A	0
PAL1A	93	50	SLV @ 04H	N/A	PSV @ 04H	372	N/A	N/A	0
PAL1A	93	74	SLV @ 04H	N/A	PSV @ 04H	373	N/A	N/A	0
PAL1A	93	90	SLV @ 04H	N/A	PSV @ 04H	374	N/A	N/A	0
PAL1A	93	100	SLV @ 04H	N/A	PSV @ 04H	375	N/A	N/A	0
PAL1A	93	122	SLV @ 04H	N/A	PSV @ 04H	376	N/A	N/A	0
PAL1A	94	77	SLV @ 04H	N/A	PSV @ 04H	377	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 1)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	94	99	SLV @ 04H	N/A	PSV @ 04H	378	N/A	N/A	0
PAL1A	95	72	SLV @ 04H	N/A	PSV @ 04H	379	N/A	N/A	0
PAL1A	95	80	SLV @ 04H	N/A	PSV @ 04H	380	N/A	N/A	0
PAL1A	95	90	SLV @ 04H	N/A	PSV @ 04H	381	N/A	N/A	0
PAL1A	95	94	SLV @ 04H	N/A	PSV @ 04H	382	N/A	N/A	0
PAL1A	95	96	SLV @ 04H	N/A	PSV @ 04H	383	N/A	N/A	0
PAL1A	96	99	SLV @ 04H	N/A	PSV @ 04H	384	N/A	N/A	0
PAL1A	96	103	SLV @ 04H	N/A	PSV @ 04H	385	N/A	N/A	0
PAL1A	98	53	SLV @ 04H	N/A	PSV @ 04H	386	N/A	N/A	0
PAL1A	99	112	SLV @ 04H	N/A	PSV @ 04H	387	N/A	N/A	0
PAL1A	99	114	SLV @ 04H	N/A	PSV @ 04H	388	N/A	N/A	0
PAL1A	99	128	SLV @ 04H	N/A	PSV @ 04H	389	N/A	N/A	0
PAL1A	100	91	SLV @ 04H	N/A	PSV @ 04H	390	N/A	N/A	0
PAL1A	100	97	SLV @ 04H	N/A	PSV @ 04H	391	N/A	N/A	0
PAL1A	100	107	SLV @ 04H	N/A	PSV @ 04H	392	N/A	N/A	0
PAL1A	100	111	SLV @ 04H	N/A	PSV @ 04H	393	N/A	N/A	0
PAL1A	100	119	SLV @ 04H	N/A	PSV @ 04H	394	N/A	N/A	0
PAL1A	101	56	SLV @ 04H	N/A	PSV @ 04H	395	N/A	N/A	0
PAL1A	101	94	SLV @ 04H	N/A	PSV @ 04H	396	N/A	N/A	0
PAL1A	101	104	SLV @ 04H	N/A	PSV @ 04H	397	N/A	N/A	0
PAL1A	101	118	SLV @ 04H	N/A	PSV @ 04H	398	N/A	N/A	0
PAL1A	102	99	SLV @ 04H	N/A	PSV @ 04H	399	N/A	N/A	0
PAL1A	102	109	SLV @ 04H	N/A	PSV @ 04H	400	N/A	N/A	0
PAL1A	103	76	SLV @ 04H	N/A	PSV @ 04H	401	N/A	N/A	0
PAL1A	103	84	SLV @ 04H	N/A	PSV @ 04H	402	N/A	N/A	0
PAL1A	103	92	SLV @ 04H	N/A	PSV @ 04H	403	N/A	N/A	0
PAL1A	103	100	SLV @ 04H	N/A	PSV @ 04H	404	N/A	N/A	0
PAL1A	103	102	SLV @ 04H	N/A	PSV @ 04H	405	N/A	N/A	0
PAL1A	103	106	SLV @ 04H	N/A	PSV @ 04H	406	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 1)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	103	110	SLV @ 04H	N/A	PSV @ 04H	407	N/A	N/A	0
PAL1A	104	107	SLV @ 04H	N/A	PSV @ 04H	408	N/A	N/A	0
PAL1A	105	74	SLV @ 04H	N/A	PSV @ 04H	409	N/A	N/A	0
PAL1A	105	76	SLV @ 04H	N/A	PSV @ 04H	410	N/A	N/A	0
PAL1A	105	112	SLV @ 04H	N/A	PSV @ 04H	411	N/A	N/A	0
PAL1A	106	69	SLV @ 04H	N/A	PSV @ 04H	412	N/A	N/A	0
PAL1A	106	87	SLV @ 04H	N/A	PSV @ 04H	413	N/A	N/A	0
PAL1A	106	107	SLV @ 04H	N/A	PSV @ 04H	414	N/A	N/A	0
PAL1A	106	135	SLV @ 04H	N/A	PSV @ 04H	415	N/A	N/A	0
PAL1A	107	54	SLV @ 04H	N/A	PSV @ 04H	416	N/A	N/A	0
PAL1A	107	60	SLV @ 04H	N/A	PSV @ 04H	417	N/A	N/A	0
PAL1A	107	72	SLV @ 04H	N/A	PSV @ 04H	418	N/A	N/A	0
PAL1A	107	108	SLV @ 04H	N/A	PSV @ 04H	419	N/A	N/A	0
PAL1A	107	122	SLV @ 04H	N/A	PSV @ 04H	420	N/A	N/A	0
PAL1A	108	71	SLV @ 04H	N/A	PSV @ 04H	421	N/A	N/A	0
PAL1A	109	62	SLV @ 04H	N/A	PSV @ 04H	422	N/A	N/A	0
PAL1A	109	68	SLV @ 04H	N/A	PSV @ 04H	423	N/A	N/A	0
PAL1A	109	80	SLV @ 04H	N/A	PSV @ 04H	424	N/A	N/A	0
PAL1A	109	86	SLV @ 04H	N/A	CSV @ 04H	425	-1.04	-0.56	0
PAL1A	109	90	SLV @ 04H	N/A	PSV @ 04H	426	N/A	N/A	0
PAL1A	109	94	SLV @ 04H	N/A	PSV @ 04H	427	N/A	N/A	0
PAL1A	109	118	SLV @ 04H	N/A	PSV @ 04H	428	N/A	N/A	0
PAL1A	110	61	SLV @ 04H	N/A	PSV @ 04H	429	N/A	N/A	0
PAL1A	110	69	SLV @ 04H	N/A	PSV @ 04H	430	N/A	N/A	0
PAL1A	110	91	SLV @ 04H	N/A	PSV @ 04H	431	N/A	N/A	0
PAL1A	110	103	SLV @ 04H	N/A	PSV @ 04H	432	N/A	N/A	0
PAL1A	110	109	SLV @ 04H	N/A	PSV @ 04H	433	N/A	N/A	0
PAL1A	110	131	SLV @ 04H	N/A	PSV @ 04H	434	N/A	N/A	0
PAL1A	111	38	SLV @ 04H	N/A	PSV @ 04H	435	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 1)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	111	62	SLV @ 04H	N/A	PSV @ 04H	436	N/A	N/A	0
PAL1A	111	72	SLV @ 04H	N/A	PSV @ 04H	437	N/A	N/A	0
PAL1A	111	90	SLV @ 04H	N/A	PSV @ 04H	438	N/A	N/A	0
PAL1A	111	94	SLV @ 04H	N/A	PSV @ 04H	439	N/A	N/A	0
PAL1A	113	54	SLV @ 04H	N/A	PSV @ 04H	440	N/A	N/A	0
PAL1A	113	82	SLV @ 04H	N/A	PSV @ 04H	441	N/A	N/A	0
PAL1A	113	88	SLV @ 04H	N/A	PSV @ 04H	442	N/A	N/A	0
PAL1A	113	90	SLV @ 04H	N/A	PSV @ 04H	443	N/A	N/A	0
PAL1A	113	96	SLV @ 04H	N/A	PSV @ 04H	444	N/A	N/A	0
PAL1A	113	98	SLV @ 04H	N/A	PSV @ 04H	445	N/A	N/A	0
PAL1A	113	102	SLV @ 04H	N/A	PSV @ 04H	446	N/A	N/A	0
PAL1A	113	104	SLV @ 04H	N/A	PSV @ 04H	447	N/A	N/A	0
PAL1A	113	118	SLV @ 04H	N/A	PSV @ 04H	448	N/A	N/A	0
PAL1A	114	69	SLV @ 04H	N/A	PSV @ 04H	449	N/A	N/A	0
PAL1A	114	73	SLV @ 04H	N/A	PSV @ 04H	450	N/A	N/A	0
PAL1A	114	75	SLV @ 04H	N/A	PSV @ 04H	451	N/A	N/A	0
PAL1A	114	91	SLV @ 04H	N/A	PSV @ 04H	452	N/A	N/A	0
PAL1A	114	93	SLV @ 04H	N/A	PSV @ 04H	453	N/A	N/A	0
PAL1A	114	111	SLV @ 04H	N/A	PSV @ 04H	454	N/A	N/A	0
PAL1A	115	76	SLV @ 04H	N/A	PSV @ 04H	455	N/A	N/A	0
PAL1A	115	88	SLV @ 04H	N/A	PSV @ 04H	456	N/A	N/A	0
PAL1A	115	98	SLV @ 04H	N/A	PSV @ 04H	457	N/A	N/A	0
PAL1A	115	104	SLV @ 04H	N/A	PSV @ 04H	458	N/A	N/A	0
PAL1A	115	106	SLV @ 04H	N/A	PSV @ 04H	459	N/A	N/A	0
PAL1A	115	108	SLV @ 04H	N/A	PSV @ 04H	460	N/A	N/A	0
PAL1A	116	87	SLV @ 04H	N/A	PSV @ 04H	461	N/A	N/A	0
PAL1A	117	56	SLV @ 04H	N/A	PSV @ 04H	462	N/A	N/A	0
PAL1A	117	104	SLV @ 04H	N/A	PSV @ 04H	463	N/A	N/A	0
PAL1A	119	96	SLV @ 04H	N/A	PSV @ 04H	464	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 1)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	120	51	SLV @ 04H	N/A	PSV @ 04H	465	N/A	N/A	0
PAL1A	120	91	SLV @ 04H	N/A	PSV @ 04H	466	N/A	N/A	0
PAL1A	121	90	SLV @ 04H	N/A	PSV @ 04H	467	N/A	N/A	0
PAL1A	121	98	SLV @ 04H	N/A	PSV @ 04H	468	N/A	N/A	0
PAL1A	121	102	SLV @ 04H	N/A	PSV @ 04H	469	N/A	N/A	0
PAL1A	121	104	SLV @ 04H	N/A	PSV @ 04H	470	N/A	N/A	0
PAL1A	121	106	SLV @ 04H	N/A	PSV @ 04H	471	N/A	N/A	0
PAL1A	122	63	SLV @ 04H	N/A	PSV @ 04H	472	N/A	N/A	0
PAL1A	122	89	SLV @ 04H	N/A	PSV @ 04H	473	N/A	N/A	0
PAL1A	123	48	SLV @ 04H	N/A	PSV @ 04H	474	N/A	N/A	0
PAL1A	123	88	SLV @ 04H	N/A	PSV @ 04H	475	N/A	N/A	0
PAL1A	123	94	SLV @ 04H	N/A	PSV @ 04H	476	N/A	N/A	0
PAL1A	125	66	SLV @ 04H	N/A	PSV @ 04H	477	N/A	N/A	0
PAL1A	125	98	SLV @ 04H	N/A	PSV @ 04H	478	N/A	N/A	0
PAL1A	125	102	SLV @ 04H	N/A	PSV @ 04H	479	N/A	N/A	0
PAL1A	127	64	SLV @ 04H	N/A	PSV @ 04H	480	N/A	N/A	0
PAL1A	128	71	SLV @ 04H	N/A	PSV @ 04H	481	N/A	N/A	0
PAL1A	128	81	SLV @ 04H	N/A	PSV @ 04H	482	N/A	N/A	0
PAL1A	128	91	SLV @ 04H	N/A	PSV @ 04H	483	N/A	N/A	0
PAL1A	128	97	SLV @ 04H	N/A	PSV @ 04H	484	N/A	N/A	0
PAL1A	129	74	SLV @ 04H	N/A	PSV @ 04H	485	N/A	N/A	0
PAL1A	129	90	SLV @ 04H	N/A	PSV @ 04H	486	N/A	N/A	0
PAL1A	129	98	SLV @ 04H	N/A	PSV @ 04H	487	N/A	N/A	0
PAL1A	130	65	SLV @ 04H	N/A	PSV @ 04H	488	N/A	N/A	0
PAL1A	130	95	SLV @ 04H	N/A	PSV @ 04H	489	N/A	N/A	0
PAL1A	130	97	SLV @ 04H	N/A	PSV @ 04H	490	N/A	N/A	0
PAL1A	134	65	SLV @ 04H	N/A	CSV @ 04H	491	-1.01	-0.72	0
PAL1A	134	99	SLV @ 04H	N/A	PSV @ 04H	492	N/A	N/A	0
PAL1A	136	87	SLV @ 04H	N/A	PSV @ 04H	493	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A

IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 1)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	136	89	SLV @ 04H	N/A	PSV @ 04H	494	N/A	N/A	0
PAL1A	137	84	SLV @ 04H	N/A	PSV @ 04H	495	N/A	N/A	0
PAL1A	138	89	SLV @ 04H	N/A	PSV @ 04H	496	N/A	N/A	0
Totals:						496			

Notes (Rev. 1):

1. The purpose of this Rev 1 list is to remove two tubes:

- a) Tube R99-C92 due to a misalignment with the mid-expansion for the sleeve at the 05H support in that tube per CR-2025-1686.
- b) Tube R68-C117 due to a bladder failure during the initial expansion at 05H where further re-expansions attempts were unable to meet the maximum pressure from the initial expansion per CR-2025-1831.

No other tubes on this list are affected by this revision as reflected by the 0 in the "Rev" column. Data Management has confirmed that tubes R99-C92 and R68-C117 are included in repair scopes and planned for plugging prior to the unit returning to service.

2. This "In-Service" sleeving list is only for sleeves to be installed at the 4th hot leg support (04H) and will be installed:

- a) **After** all tubes on the above list have had a sleeve installed at 05H except Tube R19 C44 and all tubes in Rows 1-17 where a sleeve cannot be installed at 05H.
- b) **Prior** to any sleeves installed at a lower hot leg support (i.e., 03H, 02H, 01H).

3. All tubes shall be sleeved using the Alloy 690 Sleeve P/N 8164714-002 (14.5" nominal length).

4. During the Sleeve GoGage testing:

- a) Tube R19 C44 had a restriction located approximately 8 inches above the 04H support. For this location, exercise caution during insertion of the sleeve to avoid going past the required location. If a restriction is encountered before reaching the required insertion distance, contact Framatome Engineering for assistance.
- b) All other tubes on the above list had a successful Sleeve GoGage result at the support location per 03-8169881-000; therefore, there are no other clearance issues that would prevent the installation of a sleeve.

5. All tubes on the above list were in service during plant operation for Cycle 28. Sleeving of de-plugged tubes that are being returned to service is covered under the "RTS" (Return-to-Service) sleeving list. All eddy current testing required by the Degradation Assessment (51-9378492-000) has been completed on these tubes.

6. The sleeving strategy implemented at 1D28 uses "corrective" sleeves (CSV) and "preventative" sleeves (PSV) per 51-9388851-001 based on whether a repairable flaw (i.e., volumetric indications $\geq 40\%$ TW or crack-like indications) is identified with ECT at the support location.

The criteria for a "corrective" sleeve based on review of the ECT data is as follows:

- a) The repairable flaw must be located within the center 3" of the sleeve assuming 0.75" uncertainty on either end of the sleeve for the 14.5" sleeve; therefore, the flaw extents must be within ± 1.5 " of the center of the support.
- b) The repairable flaw must be located at hot leg eggcrate support 01H/02H/03H/04H for tubes in Rows 1-17 or 01H/02H/03H/04H/05H for tubes in Rows 18-138.

The criteria for a "preventative" sleeve based on review of the ECT data is as follows:

- a) There **are no** repairable flaws at the hot leg eggcrate support for this support elevation
- b) There **are** repairable flaws at a hot leg eggcrate support below this support elevation

7. For the tubes on the above list with corrective sleeves (CSV), the minimum and maximum extent of the flaw(s) at the support are listed as measured from the center of the support from the profile sizing data.

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A

IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 1)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
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8. The tubes on the above list can remain in service following successful sleeve installation. The criteria for the selection of sleeving candidates based on review of the ECT data, is as follows:

- No volumetric indications $\geq 40\%$ TW or crack-like indications located in the "square-bend" region
- No volumetric indications $\geq 40\%$ TW or crack-like indications located at the top-of-tubesheet
- No volumetric indications $\geq 40\%$ TW or crack-like indications located in the freespan outside of any hot leg eggcrate support
- No volumetric indications $\geq 40\%$ TW or crack-like indications located at the 05H eggcrate support in Rows 1-17 tubes
- No volumetric indications $\geq 40\%$ TW or crack-like indications located at any location along the cold leg
- No volumetric indications $\geq 40\%$ TW or crack-like indications located at any hot leg support above 05H

9. The indications in the tubes on the above list were in-service during plant operation of Cycle 28. The indications in these tubes have screened against the in situ screening criteria. None of the indications in the above tubes require in situ testing.

10. Post-sleeving ECT Bobbin will be performed on the tubes on the above list for positional verification. Post-sleeving ECT +Point will be performed on the tubes on the above list over the length of the sleeve to obtain a baseline of the ECT data.

Approvals:

Craig Kelley 6/27/25 2:59PM

Craig Kelley
Framatome Integrity Engineering

William C. Walters
6/28/2025 10:39
Framatome Data Management

D. J. Wadzinski
Utility Level III
D. J. Wadzinski
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Kevin S. LaRue

D. J. Wadzinski 7/8/25

Palisades Steam Generator Operational Assessment for Cycle 29

A.20 SGA 05H Sleeve Lists



Palisades Unit 1 - 1D28 - S/G 1A

MECHANICAL SLEEVE LIST - SLEEVE PROCESS VALIDATION (Rev. 2)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Tube Qty.	Stab	Rev.
PAL1A	24	39	SLV @ 05H	N/A	Sleeve Verification	1	NO	2
Totals:						1	0	

Notes (Rev. 2):

1. All tubes shall be sleeved using the Alloy 690 Sleeve P/N 8164714-002 (14.5" nominal length).
2. The indications in the tubes on the above list have been screened against the in situ screening criteria. None of the indications in the above list require in situ testing.
3. The tubes on the above list have been reviewed for skip rolls, over expansions, dents, bulges and additional indications. No such anomalies or indications were detected that would prohibit installation of a sleeve.
4. Sleeves on the above list are installed for process verification and positional verification only and are not being used to return the tube to service. All tubes on the list shall be plugged after all post-installation activities are complete.
5. Post-sleeving ECT Bobbin will be performed on the tubes on the above list for positional verification.
6. Data Management has confirmed that these tubes are included in repair scopes and planned for plugging prior to the unit returning to service.

Approvals:

Craig Kelley
5/21/25 0840
Framatome Integrity Engineering

William C. Johnson
5/21/2025 0849
Framatome Data Management

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5/21/2025
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Date: 2025.05.22 10:19:41 -
0400

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
RTS WITH MECHANICAL SLEEVE LIST - 05H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	19	118	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	21	108	SLV @ 05H	N/A	CSV @ 05H	1	-0.84	-0.69	0
PAL1A	23	106	SLV @ 05H	N/A	CSV @ 05H	1	-0.89	0.35	0
PAL1A	29	108	SLV @ 05H	N/A	CSV @ 05H	1	0.05	0.54	0
PAL1A	31	112	SLV @ 05H	N/A	CSV @ 05H	1	-0.96	-0.17	0
PAL1A	40	103	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	60	71	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	80	83	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	92	83	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	93	92	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	100	93	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	121	88	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	133	94	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
Totals:						13			

Notes (Rev. 0):

1. This "returning-to-service (RTS) with sleeves" list is **only** for sleeves to be installed at the 5th hot leg support (05H) and will be installed prior to any sleeves installed at a lower hot leg support (i.e., 04H, 03H, 02H, 01H).
2. All tubes shall be sleeved using the Alloy 690 Sleeve P/N 8164714-002 (14.5" nominal length).
3. All tubes on the above list had a successful Sleeve GoGage result at the support location per 03-8169881-000; therefore, there are no clearance issues that would prevent the installation of a sleeve.
4. All tubes on the above list are identified for "RTS with sleeves" and are from tubes originally plugged from in-service inspections per 51-9388329-001 (Appendix B, Table B-1) and de-plugged on both legs during 1D28. The tubes on the above list have had bobbin and +Point ECT acquired and analyzed on both the hot leg and cold leg including the straight section from the tube end to the uppermost support in each tube, and the "square bend" region (defined as starting at +1.75" above the center of the uppermost eggcrate support in each tube) with inspections performed as specified in the Degradation Assessment (51-9378492-000) where applicable.
5. The sleeving strategy implemented at 1D28 uses "corrective" sleeves (CSV) and "preventative" sleeves (PSV) per 51-9388851-001 based on whether a repairable flaw (i.e., volumetric indications $\geq 40\%$ TW or crack-like indications) is identified with ECT at the support location.
The criteria for a "corrective" sleeve based on review of the ECT data is as follows:
 - a. The repairable flaw must be located within the center 3" of the sleeve assuming 0.75" uncertainty on either end of the sleeve for the 14.5" sleeve; therefore, the flaw extents must be within ± 1.5 " of the center of the support.
 - b. The repairable flaw must be located at hot leg eggcrate support 01H/02H/03H/04H for tubes in Rows 1-17 or 01H/02H/03H/04H/05H for tubes in Rows 18-138.

The criteria for a "preventative" sleeve based on review of the ECT data is as follows:

- a. There **are no** repairable flaws at the hot leg eggcrate support for this support elevation
- b. There **are** repairable flaws at a hot leg eggcrate support below this support elevation

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
RTS WITH MECHANICAL SLEEVE LIST - 05H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
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6. For the tubes on the above list with corrective sleeves (CSV), the minimum and maximum extent of all flaws at the support are listed as measured from the center of the support from the profile sizing data.

7. The tubes on the above list can be "RTS with sleeves". The criteria for "RTS with sleeves" based on review of the ECT data, is as follows:

- No volumetric indications $\geq 40\%$ TW or crack-like indications located in the "square-band" region
- No volumetric indications $\geq 40\%$ TW or crack-like indications located at the top-of-tubesheet
- No volumetric indications $\geq 40\%$ TW or crack-like indications located in the freespan outside of any hot leg eggcrate support
- No volumetric indications $\geq 40\%$ TW or crack-like indications located at the 05H eggcrate support in Rows 1-17 tubes
- No volumetric indications $\geq 40\%$ TW or crack-like indications located at any location along the cold leg

8. The indications in the tubes on the above list were not in-service during plant operation of Cycle 28 and are not required to be screened against the In situ screening criteria. Therefore, none of the indications in the above require in situ testing.

9. Post-sleeving ECT Bobbin will be performed on the tubes on the above list for positional verification. Post-sleeving ECT +Point will be performed on the tubes on the above list over the length of the sleeve to obtain a baseline of the ECT data.

Approvals:

Craig Kelley 5/27/25 10:29 AM


Framatome Integrity Engineering

WILLIAM C. WOLTERS

Framatome Data Management 05/27/2025 12:46


Framatome Lead Analyst 5/27/25 11:29 AM

Utility Level III

D. Judd Wadzinski
Utility Representative 05/27/25 06:45am PST
11:45am EST

5/27/25

Ambar Rodriguez


C. Peterson 5/30/25

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 05H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	18	37	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	18	47	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	18	49	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	18	105	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	18	117	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	18	121	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	18	123	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	18	129	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	18	135	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	18	145	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	19	46	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	19	60	SLV @ 05H	N/A	CSV @ 05H	1	-0.48	-0.11	0
PAL1A	19	62	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	19	104	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	19	106	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	19	108	SLV @ 05H	N/A	CSV @ 05H	1	-0.75	-0.43	0
PAL1A	19	112	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	19	114	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	19	120	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	19	122	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	19	126	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	19	128	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	19	138	SLV @ 05H	N/A	CSV @ 05H	1	0.61	0.80	0
PAL1A	19	148	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	20	15	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	20	113	SLV @ 05H	N/A	CSV @ 05H	1	0.77	1.07	0
PAL1A	21	36	SLV @ 05H	N/A	CSV @ 05H	1	-0.29	-0.16	0
PAL1A	21	42	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 05H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	21	56	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	21	102	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	21	104	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	21	106	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	21	110	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	21	118	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	21	128	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	21	156	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	22	37	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	22	61	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	22	105	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	22	107	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	22	115	SLV @ 05H	N/A	CSV @ 05H	1	0.75	0.88	0
PAL1A	23	50	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	23	58	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	23	60	SLV @ 05H	N/A	CSV @ 05H	1	-0.88	0.99	0
PAL1A	23	62	SLV @ 05H	N/A	CSV @ 05H	1	0.43	0.53	0
PAL1A	23	116	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	23	122	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	23	130	SLV @ 05H	N/A	CSV @ 05H	1	0.53	0.69	0
PAL1A	23	132	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	23	150	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	24	47	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	24	107	SLV @ 05H	N/A	CSV @ 05H	1	-0.69	-0.19	0
PAL1A	24	133	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	24	137	SLV @ 05H	N/A	CSV @ 05H	1	0.72	0.85	0
PAL1A	24	159	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	25	62	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 05H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	25	102	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	25	108	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	25	124	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	25	128	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	25	140	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	25	146	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	25	154	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	26	63	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	26	111	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	26	115	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	26	117	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	26	139	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	26	157	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	27	46	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	27	56	SLV @ 05H	N/A	CSV @ 05H	1	-0.93	0.99	0
PAL1A	27	60	SLV @ 05H	N/A	CSV @ 05H	1	-0.32	-0.16	0
PAL1A	27	62	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	27	104	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	27	108	SLV @ 05H	N/A	CSV @ 05H	1	-0.99	-0.80	0
PAL1A	27	110	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	27	114	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	27	134	SLV @ 05H	N/A	CSV @ 05H	1	-0.43	-0.29	0
PAL1A	27	140	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	27	148	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	27	152	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	27	158	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	28	55	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	28	63	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 05H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	28	105	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	28	107	SLV @ 05H	N/A	CSV @ 05H	1	0.16	1.07	0
PAL1A	29	28	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	29	52	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	29	102	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	29	104	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	29	106	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	29	130	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	29	152	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	30	107	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	31	46	SLV @ 05H	N/A	CSV @ 05H	1	0.29	0.83	0
PAL1A	31	54	SLV @ 05H	N/A	CSV @ 05H	1	0.08	1.01	0
PAL1A	32	103	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	32	105	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	32	107	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	32	113	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	32	119	SLV @ 05H	N/A	CSV @ 05H	1	-0.72	-0.43	0
PAL1A	32	155	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	33	16	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	33	26	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	33	54	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	33	56	SLV @ 05H	N/A	CSV @ 05H	1	0.61	0.96	0
PAL1A	33	60	SLV @ 05H	N/A	CSV @ 05H	1	0.53	0.67	0
PAL1A	33	106	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	33	108	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	33	110	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	33	112	SLV @ 05H	N/A	CSV @ 05H	1	0.45	0.72	0
PAL1A	33	114	SLV @ 05H	N/A	CSV @ 05H	1	-0.85	-0.35	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 05H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	33	144	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	33	146	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	34	23	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	34	59	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	35	58	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	35	102	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	35	104	SLV @ 05H	N/A	CSV @ 05H	1	-0.77	-0.51	0
PAL1A	35	106	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	35	150	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	36	43	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	36	47	SLV @ 05H	N/A	CSV @ 05H	1	-1.04	-0.77	0
PAL1A	36	59	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	36	103	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	36	105	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	36	111	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	37	106	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	37	116	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	38	57	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	38	109	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	38	137	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	39	60	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	39	108	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	39	110	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	39	120	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	39	122	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	40	111	SLV @ 05H	N/A	CSV @ 05H	1	-0.72	-0.03	0
PAL1A	40	129	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	41	108	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 05H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	43	112	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	44	59	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	44	99	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	44	105	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	45	58	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	45	104	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	45	158	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	46	35	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	46	59	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	46	67	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	46	111	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	46	121	SLV @ 05H	N/A	CSV @ 05H	1	-0.64	-0.05	0
PAL1A	46	125	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	46	145	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	47	48	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	47	62	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	47	108	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	47	126	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	48	45	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	48	69	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	48	105	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	48	113	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	49	100	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	49	102	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	49	108	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	49	110	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	50	99	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	50	101	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 05H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	50	113	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	52	97	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	56	85	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	56	111	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	57	52	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	57	68	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	57	90	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	57	112	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	57	134	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	58	69	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	58	101	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	60	91	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	60	93	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	60	95	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	60	97	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	61	106	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	61	110	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	61	118	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	63	38	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	63	48	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	63	86	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	63	90	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	64	93	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	64	95	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	65	114	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	66	77	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	66	95	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	67	88	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 05H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	67	96	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	68	83	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	68	95	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	68	117	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	69	62	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	69	78	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	69	86	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	69	88	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	69	90	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	69	92	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	69	94	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	70	15	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	70	23	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	70	87	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	70	93	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	70	111	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	70	117	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	70	131	SLV @ 05H	N/A	CSV @ 05H	1	0.75	0.99	0
PAL1A	70	153	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	71	48	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	71	58	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	71	92	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	71	102	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	71	110	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	71	122	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	72	57	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	72	83	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	72	85	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 05H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	72	89	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	72	91	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	73	58	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	73	72	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	73	78	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	73	80	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	73	86	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	74	85	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	74	95	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	74	101	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	74	105	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	75	84	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	75	92	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	75	94	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	77	54	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	77	74	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	77	90	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	77	124	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	77	126	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	78	41	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	78	73	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	78	87	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	78	103	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	78	113	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	80	79	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	80	99	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	80	113	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	81	80	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 05H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	81	110	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	82	87	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	82	101	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	82	109	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	83	96	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	83	98	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	83	102	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	84	59	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	84	93	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	85	110	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	86	93	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	88	47	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	88	83	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	88	93	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	88	97	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	88	99	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	88	105	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	88	107	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	88	115	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	89	54	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	89	90	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	89	96	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	89	98	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	89	114	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	90	59	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	90	89	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	90	125	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	91	64	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 05H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	91	70	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	91	72	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	91	78	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	91	84	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	91	88	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	91	90	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	91	94	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	91	96	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	91	98	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	91	100	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	91	104	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	91	124	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	92	25	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	92	45	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	92	95	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	92	97	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	92	101	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	92	107	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	92	109	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	92	113	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	93	26	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	93	50	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	93	74	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	93	90	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	93	100	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	93	122	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	94	77	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	94	99	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 05H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	95	72	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	95	80	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	95	90	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	95	94	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	95	96	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	96	99	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	96	103	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	98	53	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	99	92	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	99	112	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	99	114	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	99	128	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	100	91	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	100	97	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	100	107	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	100	111	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	100	119	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	101	56	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	101	94	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	101	104	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	101	118	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	102	99	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	102	109	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	103	76	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	103	84	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	103	92	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	103	100	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	103	102	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 05H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	103	106	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	103	110	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	104	107	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	105	74	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	105	76	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	105	112	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	106	69	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	106	87	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	106	107	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	106	135	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	107	54	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	107	60	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	107	72	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	107	108	SLV @ 05H	N/A	CSV @ 05H	1	0.64	0.83	0
PAL1A	107	122	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	108	71	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	109	62	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	109	68	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	109	80	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	109	86	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	109	90	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	109	94	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	109	118	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	110	61	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	110	69	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	110	91	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	110	103	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	110	109	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 05H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	110	131	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	111	38	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	111	62	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	111	72	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	111	90	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	111	94	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	113	54	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	113	82	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	113	88	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	113	90	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	113	96	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	113	98	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	113	102	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	113	104	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	113	118	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	114	69	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	114	73	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	114	75	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	114	91	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	114	93	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	114	111	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	115	76	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	115	88	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	115	98	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	115	104	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	115	106	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	115	108	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	116	87	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 05H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	117	56	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	117	104	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	119	96	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	120	51	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	120	91	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	121	90	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	121	98	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	121	102	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	121	104	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	121	106	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	122	63	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	122	89	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	123	48	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	123	88	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	123	94	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	125	66	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	125	98	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	125	102	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	127	64	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	128	71	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	128	81	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	128	91	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	128	97	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	129	74	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	129	90	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	129	98	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	130	65	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	130	95	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
IN-SERVICE MECHANICAL SLEEVE LIST - 05H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1A	130	97	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	134	65	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	134	99	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	136	87	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	136	89	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	137	84	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1A	137	86	SLV @ 05H	N/A	CSV @ 05H	1	-1.01	-0.83	0
PAL1A	138	89	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
Totals:						428			

Notes (Rev. 0):

- This "In-Service" sleeving list is **only** for sleeves to be installed at the 5th hot leg support (05H) and will be installed prior to any sleeves installed at a lower hot leg support (i.e., 04H, 03H, 02H, 01H).
- All tubes shall be sleeved using the Alloy 690 Sleeve P/N 8164714-002 (14.5" nominal length).
- All tubes on the above list had a successful Sleeve GoGage result at the support location per 03-8169881-000; therefore, there are no clearance issues that would prevent the installation of a sleeve.
- All tubes on the above list were in service during plant operation for Cycle 28. Sleeving of de-plugged tubes that are being returned to service is covered under the "RTS" (Return-to-Service) sleeving list. All eddy current testing required by the Degradation Assessment (51-9378492-000) has been completed on these tubes.
- The sleeving strategy implemented at 1D28 uses "corrective" sleeves (CSV) and "preventative" sleeves (PSV) per 51-9388851-001 based on whether a repairable flaw (i.e., volumetric indications $\geq 40\%$ TW or crack-like indications) is identified with ECT at the support location.
The criteria for a "corrective" sleeve based on review of the ECT data is as follows:
 - The repairable flaw must be located within the center 3" of the sleeve assuming 0.75" uncertainty on either end of the sleeve for the 14.5" sleeve; therefore, the flaw extents must be within ± 1.5 " of the center of the support.
 - The repairable flaw must be located at hot leg eggcrate support 01H/02H/03H/04H for tubes in Rows 1-17 or 01H/02H/03H/04H/05H for tubes in Rows 18-138.
- The criteria for a "preventative" sleeve based on review of the ECT data is as follows:
 - There **are no** repairable flaws at the hot leg eggcrate support for this support elevation
 - There **are** repairable flaws at a hot leg eggcrate support below this support elevation
- For the tubes on the above list with corrective sleeves (CSV), the minimum and maximum extent of the flaw(s) at the support are listed as measured from the center of the support from the profile sizing data.
- The tubes on the above list can remain in service following successful sleeve installation. The criteria for the selection of sleeving candidates based on review of the ECT data, is as follows:
 - No volumetric indications $\geq 40\%$ TW or crack-like indications located in the "square-bend" region
 - No volumetric indications $\geq 40\%$ TW or crack-like indications located at the top-of-tubesheet
 - No volumetric indications $\geq 40\%$ TW or crack-like indications located in the freespan outside of any hot leg eggcrate support
 - No volumetric indications $\geq 40\%$ TW or crack-like indications located at the 05H eggcrate support in Rows 1-17 tubes
 - No volumetric indications $\geq 40\%$ TW or crack-like indications located at any location along the cold leg
 - No volumetric indications $\geq 40\%$ TW or crack-like indications located at any hot leg support above 05H

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A

IN-SERVICE MECHANICAL SLEEVE LIST - 05H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
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8. The indications in the tubes on the above list were in-service during plant operation of Cycle 28. The indications in these tubes have screened against the in situ screening criteria. None of the indications in the above tubes require in situ testing.

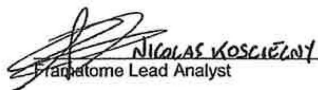
9. Post-sleeving ECT Bobbin will be performed on the tubes on the above list for positional verification. Post-sleeving ECT +Point will be performed on the tubes on the above list over the length of the sleeve to obtain a baseline of the ECT data.

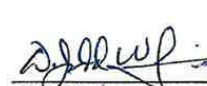
Approvals:

Craig Kelley 5/27/25 10:27 AM


Framatome Integrity Engineering

WILLIAM P. WOLKES
 05/27/2025 12:46
Framatome Data Management

 NICOLAS KOSCIW 5/27/25
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 D. J. Wadzinski
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 Ambar Rodriguez

 C. PETERSON 5/28/25

Palisades Steam Generator Operational Assessment for Cycle 29

A.21 SGB 01H Sleeve Lists



Palisades Unit 1 - 1D28 - S/G 1B

MECHANICAL SLEEVE LIST - SLEEVE PROCESS VALIDATION (Rev. 4)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Stab	Rev.
PAL1B	75	116	SLV @ 01H	N/A	Sleeve Verification	1	NO	4
Totals:						1	0	

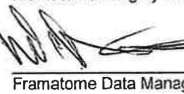
Notes (Rev. 4):

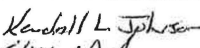
- This list is only for tubes with sleeves intalled for process verification and positional verification only at the 1st support (01H). The sleeves on this list will be installed:
 - After** all sleeve installations at the 2nd support (02H) have been completed.
 - Prior** to any sleeves installed at the 1st support (01H) in tubes that are to be returned-to-service with sleeves.
- All tubes shall be sleeved using the Alloy 690 Sleeve P/N 8164714-002 (14.5" nominal length).
- The indications in the tubes on the above list have been screened against the in situ screening criteria. None of the indications in the above list require in situ testing.
- The tubes on the above list have been reviewed for skip rolls, over expansions, dents, bulges and additional indications. No such anomalies or indications were detected that would prohibit installation of a sleeve.
- Sleeves on the above list are installed for process verification and positional verification only and are not being used to return the tube to service. All tubes on the list shall be plugged after all post-installation activities are complete.
- Post-sleeving ECT Bobbin will be performed on the tubes on the above list for positional verification.
- Data Management has confirmed that these tubes are included in repair scopes and planned for plugging prior to the unit returning to service.

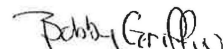
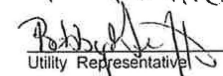
Approvals:

Craig Kelley 8/1/25 12:14PM


Framatome Integrity Engineering

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 RANDALL L. JOHNSON 12:54 PM
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 Bobby Gerardo 12:54 PM
 Bobby Gerardo 8/1/2025
Utility Representative

 Ambar Rodriguez 8/4/2025

 Dr. David 8/4/25

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B
RTS WITH MECHANICAL SLEEVE LIST - 01H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1B	21	112	SLV @ 01H	N/A	CSV @ 01H	1	-0.99	0.54	0
PAL1B	23	110	SLV @ 01H	N/A	CSV @ 01H	2	-1.06	0.37	0
PAL1B	24	55	SLV @ 01H	N/A	CSV @ 01H	3	-0.79	0.00	0
PAL1B	27	58	SLV @ 01H	N/A	CSV @ 01H	4	-1.04	1.09	0
PAL1B	29	106	SLV @ 01H	N/A	CSV @ 01H	5	-0.99	0.62	0
PAL1B	29	116	SLV @ 01H	N/A	CSV @ 01H	6	-0.32	0.87	0
PAL1B	31	106	SLV @ 01H	N/A	CSV @ 01H	7	-1.01	0.79	0
PAL1B	34	109	SLV @ 01H	N/A	CSV @ 01H	8	-0.82	0.00	0
PAL1B	34	115	SLV @ 01H	N/A	CSV @ 01H	9	-0.67	0.89	0
PAL1B	77	112	SLV @ 01H	N/A	CSV @ 01H	10	-1.01	0.64	0
PAL1B	79	96	SLV @ 01H	N/A	CSV @ 01H	11	-1.01	-0.10	0
PAL1B	82	115	SLV @ 01H	N/A	CSV @ 01H	12	-1.04	1.01	0
PAL1B	98	77	SLV @ 01H	N/A	CSV @ 01H	13	-1.01	0.94	0
PAL1B	98	79	SLV @ 01H	N/A	CSV @ 01H	14	-0.94	-0.37	0
PAL1B	122	85	SLV @ 01H	N/A	CSV @ 01H	15	-0.67	0.27	0
Totals:						15			

Notes (Rev. 0):

- This "returning-to-service (RTS) with sleeves" list is only for sleeves to be installed at the 1st hot leg support (01H) and will be installed after all tubes on the above list have had a sleeve installed at 02H.
- All tubes shall be sleeved using the Alloy 690 Sleeve P/N 8164714-002 (14.5" nominal length).
- All tubes on the above list had a successful Sleeve GoGage result at the support location per 03-8169881-000; therefore, there are no clearance issues that would prevent the installation of a sleeve.
- All tubes on the above list are identified for "RTS with sleeves" and are from tubes originally plugged from in-service inspections per 51-9388329-001 (Appendix B, Table B-1) and de-plugged on both legs during 1D28. The tubes on the above list have had bobbin and +Point ECT acquired and analyzed on both the hot leg and cold leg including the straight section from the tube end to the uppermost support in each tube, and the "square bend" region (defined as starting at +1.75" above the center of the uppermost eggcrate support in each tube) with inspections performed as specified in the Degradation Assessment (51-9378492-000) where applicable.
- The sleeving strategy implemented at 1D28 uses "corrective" sleeves (CSV) and "preventative" sleeves (PSV) per 51-9388851-001 based on whether a repairable flaw (i.e., volumetric indications $\geq 40\%$ TW or crack-like indications) is identified with ECT at the support location. As 01H is the lowest elevation support there is no reason to install a "preventative" sleeve (i.e., a "corrective" sleeve can always be installed at a future inspection as needed); therefore, all installed sleeves at 01H will be "corrective". The criteria for a "corrective" sleeve based on review of the ECT data is as follows:
 - The repairable flaw must be located within the center 3" of the sleeve assuming 0.75" uncertainty on either end of the sleeve for the 14.5" sleeve; therefore, the flaw extents must be within ± 1.5 " of the center of the support.
 - The repairable flaw must be located at hot leg eggcrate support 01H/02H/03H/04H for tubes in Rows 1-17 or 01H/02H/03H/04H/05H for tubes in Rows 18-138.
- For the tubes on the above list with corrective sleeves (CSV), the minimum and maximum extent of all flaws at the support are listed as measured from the center of the support from the profile sizing data.

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B

RTS WITH MECHANICAL SLEEVE LIST - 01H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
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7. The tubes on the above list can be "RTS with sleeves". The criteria for "RTS with sleeves" based on review of the ECT data, is as follows:

- No volumetric indications $\geq 40\%$ TW or crack-like indications located in the "square-bend" region
 - No volumetric indications $\geq 40\%$ TW or crack-like indications located at the top-of-tubesheet
 - No volumetric indications $\geq 40\%$ TW or crack-like indications located in the freespan outside of any hot leg eggcrate support
 - No volumetric indications $\geq 40\%$ TW or crack-like indications located at the 05H eggcrate support in Rows 1-17 tubes
 - No volumetric indications $\geq 40\%$ TW or crack-like indications located at any location along the cold leg
8. The Indications in the tubes on the above list were not in-service during plant operation of Cycle 28 and are not required to be screened against the in situ screening criteria. Therefore, none of the Indications in the above require in situ testing.
9. Post-sleeving ECT Bobbin will be performed on the tubes on the above list for positional verification. Post-sleeving ECT +Point will be performed on the tubes on the above list over the length of the sleeve to obtain a baseline of the ECT data.

Approvals:

Craig Kelley 8/1/25 10:06AM

Craig Kelley
Framatome Integrity Engineering

W. Williams *W. Williams*
08/01/2025 1300

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Bobby Griffin 10:55 AM
Bobby Griffin 8/1/2025
Utility Representative

Ally 8/4/2025
Ally Ambar Rodriguez

Donnell Don Powell 8/4/25

Palisades Steam Generator Operational Assessment for Cycle 29


Palisades Unit 1 - 1D28 - S/G 1B
IN-SERVICE MECHANICAL SLEEVE LIST - 01H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1B	1	2	SLV @ 01H	N/A	CSV @ 01H	1	0.72	1.04	0
PAL1B	1	140	SLV @ 01H	N/A	CSV @ 01H	2	-0.96	-0.13	0
PAL1B	4	109	SLV @ 01H	N/A	CSV @ 01H	3	0.32	0.96	0
PAL1B	4	139	SLV @ 01H	N/A	CSV @ 01H	4	-0.99	-0.13	0
PAL1B	4	153	SLV @ 01H	N/A	CSV @ 01H	5	0.59	0.96	0
PAL1B	5	134	SLV @ 01H	N/A	CSV @ 01H	6	0.29	0.85	0
PAL1B	20	121	SLV @ 01H	N/A	CSV @ 01H	7	-0.35	0.85	0
PAL1B	21	16	SLV @ 01H	N/A	CSV @ 01H	8	0.77	0.96	0
PAL1B	23	50	SLV @ 01H	N/A	CSV @ 01H	9	0.37	0.96	0
PAL1B	23	106	SLV @ 01H	N/A	CSV @ 01H	10	0.05	0.99	0
PAL1B	23	114	SLV @ 01H	N/A	CSV @ 01H	11	-0.29	0.96	0
PAL1B	23	124	SLV @ 01H	N/A	CSV @ 01H	12	-0.80	-0.45	0
PAL1B	23	126	SLV @ 01H	N/A	CSV @ 01H	13	-1.04	-0.29	0
PAL1B	23	130	SLV @ 01H	N/A	CSV @ 01H	14	-0.99	-0.85	0
PAL1B	23	132	SLV @ 01H	N/A	CSV @ 01H	15	0.69	0.88	0
PAL1B	23	138	SLV @ 01H	N/A	CSV @ 01H	16	0.83	0.96	0
PAL1B	24	117	SLV @ 01H	N/A	CSV @ 01H	17	0.69	0.91	0
PAL1B	27	52	SLV @ 01H	N/A	CSV @ 01H	18	0.61	0.88	0
PAL1B	27	102	SLV @ 01H	N/A	CSV @ 01H	19	-0.37	0.99	0
PAL1B	27	118	SLV @ 01H	N/A	CSV @ 01H	20	-0.75	-0.08	0
PAL1B	28	25	SLV @ 01H	N/A	CSV @ 01H	21	0.56	0.96	0
PAL1B	28	37	SLV @ 01H	N/A	CSV @ 01H	22	0.61	0.96	0
PAL1B	28	103	SLV @ 01H	N/A	CSV @ 01H	23	-0.91	0.00	0
PAL1B	28	109	SLV @ 01H	N/A	CSV @ 01H	24	0.24	0.93	0
PAL1B	28	111	SLV @ 01H	N/A	CSV @ 01H	25	-0.88	-0.27	0
PAL1B	28	113	SLV @ 01H	N/A	CSV @ 01H	26	-0.43	0.96	0
PAL1B	28	127	SLV @ 01H	N/A	CSV @ 01H	27	-0.96	-0.64	0
PAL1B	29	112	SLV @ 01H	N/A	CSV @ 01H	28	-0.96	0.48	0

Palisades Steam Generator Operational Assessment for Cycle 29


Palisades Unit 1 - 1D28 - S/G 1B
IN-SERVICE MECHANICAL SLEEVE LIST - 01H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1B	29	118	SLV @ 01H	N/A	CSV @ 01H	29	0.59	0.99	0
PAL1B	29	130	SLV @ 01H	N/A	CSV @ 01H	30	-1.04	-0.69	0
PAL1B	29	134	SLV @ 01H	N/A	CSV @ 01H	31	-0.99	-0.69	0
PAL1B	31	18	SLV @ 01H	N/A	CSV @ 01H	32	-0.24	-0.11	0
PAL1B	31	46	SLV @ 01H	N/A	CSV @ 01H	33	0.37	0.96	0
PAL1B	31	102	SLV @ 01H	N/A	CSV @ 01H	34	-0.69	0.32	0
PAL1B	31	112	SLV @ 01H	N/A	CSV @ 01H	35	-0.21	0.99	0
PAL1B	31	130	SLV @ 01H	N/A	CSV @ 01H	36	0.45	0.91	0
PAL1B	32	107	SLV @ 01H	N/A	CSV @ 01H	37	-0.77	-0.19	0
PAL1B	33	108	SLV @ 01H	N/A	CSV @ 01H	38	-1.01	0.96	0
PAL1B	33	112	SLV @ 01H	N/A	CSV @ 01H	39	-0.88	-0.11	0
PAL1B	33	118	SLV @ 01H	N/A	CSV @ 01H	40	0.53	0.91	0
PAL1B	34	25	SLV @ 01H	N/A	CSV @ 01H	41	0.75	1.01	0
PAL1B	34	111	SLV @ 01H	N/A	CSV @ 01H	42	-0.29	1.04	0
PAL1B	34	119	SLV @ 01H	N/A	CSV @ 01H	43	0.08	0.99	0
PAL1B	34	129	SLV @ 01H	N/A	CSV @ 01H	44	0.32	0.93	0
PAL1B	37	104	SLV @ 01H	N/A	CSV @ 01H	45	-0.43	-0.27	0
PAL1B	39	110	SLV @ 01H	N/A	CSV @ 01H	46	0.24	1.01	0
PAL1B	41	108	SLV @ 01H	N/A	CSV @ 01H	47	0.32	0.75	0
PAL1B	45	106	SLV @ 01H	N/A	CSV @ 01H	48	0.13	0.80	0
PAL1B	48	109	SLV @ 01H	N/A	CSV @ 01H	49	0.45	0.80	0
PAL1B	51	110	SLV @ 01H	N/A	CSV @ 01H	50	0.72	0.85	0
PAL1B	53	126	SLV @ 01H	N/A	CSV @ 01H	51	-0.27	0.91	0
PAL1B	61	76	SLV @ 01H	N/A	CSV @ 01H	52	-0.93	-0.80	0
PAL1B	64	95	SLV @ 01H	N/A	CSV @ 01H	53	0.45	0.96	0
PAL1B	65	92	SLV @ 01H	N/A	CSV @ 01H	54	0.59	0.88	0
PAL1B	66	77	SLV @ 01H	N/A	CSV @ 01H	55	0.29	0.72	0
PAL1B	66	95	SLV @ 01H	N/A	CSV @ 01H	56	-0.64	0.43	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B
IN-SERVICE MECHANICAL SLEEVE LIST - 01H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1B	67	88	SLV @ 01H	N/A	CSV @ 01H	57	0.53	0.85	0
PAL1B	67	90	SLV @ 01H	N/A	CSV @ 01H	58	-0.32	0.19	0
PAL1B	67	92	SLV @ 01H	N/A	CSV @ 01H	59	-0.93	0.00	0
PAL1B	69	96	SLV @ 01H	N/A	CSV @ 01H	60	0.35	0.80	0
PAL1B	72	79	SLV @ 01H	N/A	CSV @ 01H	61	0.64	1.04	0
PAL1B	72	133	SLV @ 01H	N/A	CSV @ 01H	62	0.05	1.04	0
PAL1B	73	80	SLV @ 01H	N/A	CSV @ 01H	63	0.11	1.09	0
PAL1B	73	94	SLV @ 01H	N/A	CSV @ 01H	64	-0.69	0.96	0
PAL1B	73	122	SLV @ 01H	N/A	CSV @ 01H	65	0.53	0.88	0
PAL1B	74	69	SLV @ 01H	N/A	CSV @ 01H	66	-0.29	0.00	0
PAL1B	74	93	SLV @ 01H	N/A	CSV @ 01H	67	-0.11	1.01	0
PAL1B	75	82	SLV @ 01H	N/A	CSV @ 01H	68	0.37	1.04	0
PAL1B	75	88	SLV @ 01H	N/A	CSV @ 01H	69	-0.99	-0.72	0
PAL1B	75	118	SLV @ 01H	N/A	CSV @ 01H	70	-0.45	-0.03	0
PAL1B	76	79	SLV @ 01H	N/A	CSV @ 01H	71	-0.91	0.32	0
PAL1B	78	99	SLV @ 01H	N/A	CSV @ 01H	72	-0.75	1.01	0
PAL1B	79	94	SLV @ 01H	N/A	CSV @ 01H	73	0.21	1.01	0
PAL1B	80	67	SLV @ 01H	N/A	CSV @ 01H	74	-0.96	-0.69	0
PAL1B	80	83	SLV @ 01H	N/A	CSV @ 01H	75	-0.48	-0.05	0
PAL1B	80	87	SLV @ 01H	N/A	CSV @ 01H	76	-0.96	-0.27	0
PAL1B	80	89	SLV @ 01H	N/A	CSV @ 01H	77	0.27	1.01	0
PAL1B	80	101	SLV @ 01H	N/A	CSV @ 01H	78	0.08	0.91	0
PAL1B	80	103	SLV @ 01H	N/A	CSV @ 01H	79	-0.91	-0.05	0
PAL1B	80	127	SLV @ 01H	N/A	CSV @ 01H	80	-0.91	-0.77	0
PAL1B	85	82	SLV @ 01H	N/A	CSV @ 01H	81	-0.91	-0.21	0
PAL1B	85	94	SLV @ 01H	N/A	CSV @ 01H	82	-0.83	0.85	0
PAL1B	88	93	SLV @ 01H	N/A	CSV @ 01H	83	0.08	0.96	0
PAL1B	89	62	SLV @ 01H	N/A	CSV @ 01H	84	0.05	0.43	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B
IN-SERVICE MECHANICAL SLEEVE LIST - 01H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1B	89	90	SLV @ 01H	N/A	CSV @ 01H	85	-0.64	0.91	0
PAL1B	89	98	SLV @ 01H	N/A	CSV @ 01H	86	-0.88	0.11	0
PAL1B	89	100	SLV @ 01H	N/A	CSV @ 01H	87	0.05	0.43	0
PAL1B	89	102	SLV @ 01H	N/A	CSV @ 01H	88	-0.99	0.93	0
PAL1B	89	104	SLV @ 01H	N/A	CSV @ 01H	89	-0.29	-0.05	0
PAL1B	89	106	SLV @ 01H	N/A	CSV @ 01H	90	-0.91	0.72	0
PAL1B	89	110	SLV @ 01H	N/A	CSV @ 01H	91	0.37	1.04	0
PAL1B	90	65	SLV @ 01H	N/A	CSV @ 01H	92	-0.83	-0.13	0
PAL1B	90	97	SLV @ 01H	N/A	CSV @ 01H	93	-0.05	0.32	0
PAL1B	91	68	SLV @ 01H	N/A	CSV @ 01H	94	-0.91	1.01	0
PAL1B	91	88	SLV @ 01H	N/A	CSV @ 01H	95	-0.13	0.83	0
PAL1B	94	73	SLV @ 01H	N/A	CSV @ 01H	96	-0.99	-0.19	0
PAL1B	94	105	SLV @ 01H	N/A	CSV @ 01H	97	-0.45	-0.03	0
PAL1B	95	104	SLV @ 01H	N/A	CSV @ 01H	98	-0.83	0.21	0
PAL1B	95	142	SLV @ 01H	N/A	CSV @ 01H	99	0.75	0.96	0
PAL1B	97	94	SLV @ 01H	N/A	CSV @ 01H	100	-0.80	-0.59	0
PAL1B	98	95	SLV @ 01H	N/A	CSV @ 01H	101	0.29	1.01	0
PAL1B	99	94	SLV @ 01H	N/A	CSV @ 01H	102	0.59	0.88	0
PAL1B	100	89	SLV @ 01H	N/A	CSV @ 01H	103	-0.88	0.19	0
PAL1B	104	99	SLV @ 01H	N/A	CSV @ 01H	104	0.72	0.99	0
PAL1B	106	113	SLV @ 01H	N/A	CSV @ 01H	105	-0.93	-0.05	0
PAL1B	108	109	SLV @ 01H	N/A	CSV @ 01H	106	0.11	0.37	0
PAL1B	109	106	SLV @ 01H	N/A	CSV @ 01H	107	-0.93	-0.56	0
PAL1B	113	104	SLV @ 01H	N/A	CSV @ 01H	108	0.00	0.85	0
PAL1B	113	106	SLV @ 01H	N/A	CSV @ 01H	109	-0.85	-0.56	0
PAL1B	118	75	SLV @ 01H	N/A	CSV @ 01H	110	0.24	0.93	0
Totals:						110			

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B
IN-SERVICE MECHANICAL SLEEVE LIST - 01H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
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Notes (Rev. 0):

1. This "In-Service" sleeving list is only for sleeves to be installed at the 1st hot leg support (01H) and will be installed after all tubes on the above list have had a sleeve installed at 02H.

2. All tubes shall be sleeved using the Alloy 690 Sleeve P/N 8164714-002 (14.5" nominal length).

3. All tubes on the above list had a successful Sleeve GoGage result at the support location per 03-8169881-000; therefore, there are no clearance issues that would prevent the installation of a sleeve.

4. All tubes on the above list were in service during plant operation for Cycle 28. Sleeving of de-plugged tubes that are being returned to service is covered under the "RTS" (Return-to-Service) sleeving list. All eddy current testing required by the Degradation Assessment (51-9378492-000) has been completed on these tubes.

5. The sleeving strategy implemented at 1D28 uses "corrective" sleeves (CSV) and "preventative" sleeves (PSV) per 51-938851-001 based on whether a repairable flaw (i.e., volumetric indications $\geq 40\%$ TW or crack-like indications) is identified with ECT at the support location.

The criteria for a "corrective" sleeve based on review of the ECT data is as follows:

a) The repairable flaw must be located within the center 3" of the sleeve assuming 0.75" uncertainty on either end of the sleeve for the 14.5" sleeve; therefore, the flaw extents must be within $\pm 1.5"$ of the center of the support.

b) The repairable flaw must be located at hot leg eggcrate support 01H/02H/03H/04H for tubes in Rows 1-17 or 01H/02H/03H/04H/05H for tubes in Rows 18-138.

The criteria for a "preventative" sleeve based on review of the ECT data is as follows:

a) There are no repairable flaws at the hot leg eggcrate support for this support elevation

b) There are repairable flaws at a hot leg eggcrate support below this support elevation

6. For the tubes on the above list with corrective sleeves (CSV), the minimum and maximum extent of the flaw(s) at the support are listed as measured from the center of the support from the profile sizing data.

7. The tubes on the above list can remain in service following successful sleeve installation. The criteria for the selection of sleeving candidates based on review of the ECT data, is as follows:

- No volumetric indications $\geq 40\%$ TW or crack-like indications located in the "square-bend" region
- No volumetric indications $\geq 40\%$ TW or crack-like indications located at the top-of-tubesheet
- No volumetric indications $\geq 40\%$ TW or crack-like indications located in the freespan outside of any hot leg eggcrate support
- No volumetric indications $\geq 40\%$ TW or crack-like indications located at the 05H eggcrate support in Rows 1-17 tubes
- No volumetric indications $\geq 40\%$ TW or crack-like indications located at any location along the cold leg
- No volumetric indications $\geq 40\%$ TW or crack-like indications located at any hot leg support above 05H

8. The indications in the tubes on the above list were in-service during plant operation of Cycle 28. The indications in these tubes have screened against the in situ screening criteria. None of the indications in the above tubes require in situ testing.

9. Post-sleeving ECT Bobbin will be performed on the tubes on the above list for positional verification. Post-sleeving ECT +Point will be performed on the tubes on the above list over the length of the sleeve to obtain a baseline of the ECT data.

Approvals:

Craig Kelley 8/1/25 10:11AM

Craig Kelley
Framatomy Integrity Engineering

William Ambrose
08/01/2025 1300

Framatomy Data Management

Kevin L. Johnson 10:54 AM

Scott Z... 8/1/2025
Framatomy Lead Analyst

8/1/2025 10:10 AM

Bob Griffin 10:55 AM
Bob Griffin 8/1/2025
Utility Representative

Al Ambar Rodriguez 8/4/2025

Don Povel 8/4/25

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Palisades Steam Generator Operational Assessment for Cycle 29

A.22 SGB 02H Sleeve Lists



Palisades Unit 1 - 1D28 - S/G 1B

MECHANICAL SLEEVE LIST - SLEEVE PROCESS VALIDATION (Rev. 3)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Stab	Rev.
PAL1B	75	116	SLV @ 02H	N/A	Sleeve Verification	1	NO	3
Totals:						1	0	

Notes (Rev. 3):

- This list is only for tubes with sleeves installed for process verification and positional verification only at the 2nd support (02H). The sleeves on this list will be installed:
 - After all sleeve installations at the 3rd support (03H) have been completed.
 - Prior to any sleeves installed at the 2nd support (02H) in tubes that are to be returned-to-service with sleeves.
- All tubes shall be sleeved using the Alloy 690 Sleeve P/N 8164714-002 (14.5" nominal length).
- The indications in the tubes on the above list have been screened against the in situ screening criteria. None of the indications in the above list require in situ testing.
- The tubes on the above list have been reviewed for skip rolls, over expansions, dents, bulges and additional indications. No such anomalies or indications were detected that would prohibit installation of a sleeve.
- Sleeves on the above list are installed for process verification and positional verification only and are not being used to return the tube to service. All tubes on the list shall be plugged after all post-installation activities are complete.
- Post-sleeving ECT Bobbin will be performed on the tubes on the above list for positional verification.
- Data Management has confirmed that these tubes are included in repair scopes and planned for plugging prior to the unit returning to service.

Approvals:

Craig Kelley 7/28/2025 9:21AM

Framatomy Integrity Engineering

Framatomy Data Management 7/28/2025 1607

Framatomy Lead Analyst 7/28/2025

Utility Representative 7/28/2025 1:07 PM

7/29/2025

7/29/25

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B
RTS WITH MECHANICAL SLEEVE LIST - 02H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1B	21	112	SLV @ 02H	N/A	CSV @ 02H	1	0.54	1.01	0
PAL1B	23	110	SLV @ 02H	N/A	PSV @ 02H	2	N/A	N/A	0
PAL1B	24	55	SLV @ 02H	N/A	PSV @ 02H	3	N/A	N/A	0
PAL1B	27	58	SLV @ 02H	N/A	PSV @ 02H	4	N/A	N/A	0
PAL1B	29	106	SLV @ 02H	N/A	CSV @ 02H	5	0.72	0.89	0
PAL1B	29	116	SLV @ 02H	N/A	PSV @ 02H	6	N/A	N/A	0
PAL1B	31	106	SLV @ 02H	N/A	PSV @ 02H	7	N/A	N/A	0
PAL1B	31	150	SLV @ 02H	N/A	CSV @ 02H	8	-0.1	0.67	0
PAL1B	32	155	SLV @ 02H	N/A	CSV @ 02H	9	-0.96	-0.07	0
PAL1B	34	109	SLV @ 02H	N/A	CSV @ 02H	10	-0.96	1.04	0
PAL1B	34	115	SLV @ 02H	N/A	PSV @ 02H	11	N/A	N/A	0
PAL1B	41	148	SLV @ 02H	N/A	CSV @ 02H	12	0.2	0.99	0
PAL1B	77	112	SLV @ 02H	N/A	PSV @ 02H	13	N/A	N/A	0
PAL1B	79	96	SLV @ 02H	N/A	PSV @ 02H	14	N/A	N/A	0
PAL1B	82	115	SLV @ 02H	N/A	CSV @ 02H	15	0.02	0.22	0
PAL1B	98	77	SLV @ 02H	N/A	PSV @ 02H	16	N/A	N/A	0
PAL1B	98	79	SLV @ 02H	N/A	PSV @ 02H	17	N/A	N/A	0
PAL1B	105	102	SLV @ 02H	N/A	CSV @ 02H	18	0.57	0.99	0
PAL1B	122	85	SLV @ 02H	N/A	PSV @ 02H	19	N/A	N/A	0
						19			

Notes (Rev. 0):

1. This "returning-to-service (RTS) with sleeves" list is only for sleeves to be installed at the 2nd hot leg support (02H) and will be installed:

- a) **After** all tubes on the above list have had a sleeve installed at 03H
- b) **Prior** to any sleeves installed at a lower hot leg support (i.e., 01H).

2. All tubes shall be sleeved using the Alloy 690 Sleeve P/N 8164714-002 (14.5" nominal length).

3. All tubes on the above list had a successful Sleeve GoGage result at the support location per 03-8169881-000; therefore, there are no clearance issues that would prevent the installation of a sleeve.

4. All tubes on the above list are identified for "RTS with sleeves" and are from tubes originally plugged from in-service inspections per 51-9388329-001 (Appendix B, Table B-1) and de-plugged on both legs during 1D28. The tubes on the above list have had bobbin and +Point ECT acquired and analyzed on both the hot leg and cold leg including the straight section from the tube end to the uppermost support in each tube, and the "square bend" region (defined as starting at +1.75" above the center of the uppermost eggcrate support in each tube) with inspections performed as specified in the Degradation Assessment (51-9378492-000) where applicable.

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B

RTS WITH MECHANICAL SLEEVE LIST - 02H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
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5. The sleeving strategy implemented at 1D28 uses "corrective" sleeve (CSV) and "preventative" sleeves (PSV) per 51-9388851-001 based on whether a repairable flaw (i.e., volumetric indications $\geq 40\%$ TW or crack-like indications) is identified with ECT at the support location.

The criteria for a "corrective" sleeve based on review of the ECT data is as follows:

- The repairable flaw must be located within the center 3" of the sleeve assuming 0.75" uncertainty on either end of the sleeve for the 14.5" sleeve; therefore, the flaw extents must be within ± 1.5 " of the center of the support.
- The repairable flaw must be located at hot leg eggcrate support 01H/02H/03H/04H for tubes in Rows 1-17 or 01H/02H/03H/04H/05H for tubes in Rows 18-138.

The criteria for a "preventative" sleeve based on review of the ECT data is as follows:

- There are no repairable flaws at the hot leg eggcrate support for this support elevation
- There are repairable flaws at a hot leg eggcrate support below this support elevation

6. For the tubes on the above list with corrective sleeves (CSV), the minimum and maximum extent of all flaws at the support are listed as measured from the center of the support from the profile sizing data.

7. The tubes on the above list can be "RTS with sleeves". The criteria for "RTS with sleeves" based on review of the ECT data, is as follows:

- No volumetric indications $\geq 40\%$ TW or crack-like indications located in the "square-bend" region
- No volumetric indications $\geq 40\%$ TW or crack-like indications located at the top-of-tubesheet
- No volumetric indications $\geq 40\%$ TW or crack-like indications located in the freespan outside of any hot leg eggcrate support
- No volumetric indications $\geq 40\%$ TW or crack-like indications located at the 05H eggcrate support in Rows 1-17 tubes
- No volumetric indications $\geq 40\%$ TW or crack-like indications located at any location along the cold leg

8. The indications in the tubes on the above list were not in-service during plant operation of Cycle 28 and are not required to be screened against the in situ screening criteria. Therefore, none of the indications in the above require in situ testing.

9. Post-sleeving ECT Bobbin will be performed on the tubes on the above list for positional verification. Post-sleeving ECT +Point will be performed on the tubes on the above list over the length of the sleeve to obtain a baseline of the ECT data.

Approvals:

Craig Kelley 7/28/25 1:51PM

7/28/25 1607

Framatome Integrity Engineering

7/28/25 1607

Framatome Data Management

7/28/25 1607

7/28/25 1607

7/28/25 1607

Framatome Lead Analyst

7/28/25 2:51pm

Utility Representative

7/28/25 1607

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Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B

IN-SERVICE MECHANICAL SLEEVE LIST - 02H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1B	1	2	SLV @ 02H	N/A	PSV @ 02H	1	N/A	N/A	0
PAL1B	1	140	SLV @ 02H	N/A	PSV @ 02H	2	N/A	N/A	0
PAL1B	4	109	SLV @ 02H	N/A	PSV @ 02H	3	N/A	N/A	0
PAL1B	4	139	SLV @ 02H	N/A	PSV @ 02H	4	N/A	N/A	0
PAL1B	4	153	SLV @ 02H	N/A	PSV @ 02H	5	N/A	N/A	0
PAL1B	4	159	SLV @ 02H	N/A	CSV @ 02H	6	0.27	0.45	0
PAL1B	5	134	SLV @ 02H	N/A	PSV @ 02H	7	N/A	N/A	0
PAL1B	19	102	SLV @ 02H	N/A	CSV @ 02H	8	-0.83	-0.37	0
PAL1B	20	109	SLV @ 02H	N/A	CSV @ 02H	9	0.75	0.96	0
PAL1B	20	121	SLV @ 02H	N/A	PSV @ 02H	10	N/A	N/A	0
PAL1B	21	16	SLV @ 02H	N/A	PSV @ 02H	11	N/A	N/A	0
PAL1B	23	50	SLV @ 02H	N/A	PSV @ 02H	12	N/A	N/A	0
PAL1B	23	106	SLV @ 02H	N/A	PSV @ 02H	13	N/A	N/A	0
PAL1B	23	114	SLV @ 02H	N/A	PSV @ 02H	14	N/A	N/A	0
PAL1B	23	120	SLV @ 02H	N/A	CSV @ 02H	15	0.11	0.80	0
PAL1B	23	124	SLV @ 02H	N/A	PSV @ 02H	16	N/A	N/A	0
PAL1B	23	126	SLV @ 02H	N/A	PSV @ 02H	17	N/A	N/A	0
PAL1B	23	130	SLV @ 02H	N/A	PSV @ 02H	18	N/A	N/A	0
PAL1B	23	132	SLV @ 02H	N/A	PSV @ 02H	19	N/A	N/A	0
PAL1B	23	138	SLV @ 02H	N/A	PSV @ 02H	20	N/A	N/A	0
PAL1B	24	117	SLV @ 02H	N/A	PSV @ 02H	21	N/A	N/A	0
PAL1B	25	124	SLV @ 02H	N/A	CSV @ 02H	22	0.35	0.75	0
PAL1B	27	52	SLV @ 02H	N/A	PSV @ 02H	23	N/A	N/A	0
PAL1B	27	102	SLV @ 02H	N/A	PSV @ 02H	24	N/A	N/A	0
PAL1B	27	116	SLV @ 02H	N/A	CSV @ 02H	25	0.75	0.91	0
PAL1B	27	118	SLV @ 02H	N/A	PSV @ 02H	26	N/A	N/A	0
PAL1B	28	25	SLV @ 02H	N/A	PSV @ 02H	27	N/A	N/A	0
PAL1B	28	37	SLV @ 02H	N/A	PSV @ 02H	28	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B

IN-SERVICE MECHANICAL SLEEVE LIST - 02H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1B	28	103	SLV @ 02H	N/A	CSV @ 02H	29	0.32	1.04	0
PAL1B	28	107	SLV @ 02H	N/A	CSV @ 02H	30	-0.93	1.01	0
PAL1B	28	109	SLV @ 02H	N/A	PSV @ 02H	31	N/A	N/A	0
PAL1B	28	111	SLV @ 02H	N/A	CSV @ 02H	32	0.08	1.04	0
PAL1B	28	113	SLV @ 02H	N/A	CSV @ 02H	33	-0.91	0.88	0
PAL1B	28	115	SLV @ 02H	N/A	CSV @ 02H	34	-1.01	1.01	0
PAL1B	28	127	SLV @ 02H	N/A	PSV @ 02H	35	N/A	N/A	0
PAL1B	29	102	SLV @ 02H	N/A	CSV @ 02H	36	-0.85	0.53	0
PAL1B	29	110	SLV @ 02H	N/A	CSV @ 02H	37	0.56	0.91	0
PAL1B	29	112	SLV @ 02H	N/A	PSV @ 02H	38	N/A	N/A	0
PAL1B	29	118	SLV @ 02H	N/A	PSV @ 02H	39	N/A	N/A	0
PAL1B	29	130	SLV @ 02H	N/A	PSV @ 02H	40	N/A	N/A	0
PAL1B	29	134	SLV @ 02H	N/A	PSV @ 02H	41	N/A	N/A	0
PAL1B	29	154	SLV @ 02H	N/A	CSV @ 02H	42	0.77	0.99	0
PAL1B	31	18	SLV @ 02H	N/A	PSV @ 02H	43	N/A	N/A	0
PAL1B	31	46	SLV @ 02H	N/A	PSV @ 02H	44	N/A	N/A	0
PAL1B	31	102	SLV @ 02H	N/A	PSV @ 02H	45	N/A	N/A	0
PAL1B	31	110	SLV @ 02H	N/A	CSV @ 02H	46	0.43	1.07	0
PAL1B	31	112	SLV @ 02H	N/A	CSV @ 02H	47	-0.88	0.96	0
PAL1B	31	130	SLV @ 02H	N/A	PSV @ 02H	48	N/A	N/A	0
PAL1B	31	140	SLV @ 02H	N/A	CSV @ 02H	49	0.64	1.01	0
PAL1B	32	107	SLV @ 02H	N/A	CSV @ 02H	50	0.08	0.88	0
PAL1B	33	108	SLV @ 02H	N/A	CSV @ 02H	51	0.32	1.07	0
PAL1B	33	112	SLV @ 02H	N/A	PSV @ 02H	52	N/A	N/A	0
PAL1B	33	118	SLV @ 02H	N/A	PSV @ 02H	53	N/A	N/A	0
PAL1B	33	150	SLV @ 02H	N/A	CSV @ 02H	54	0.59	0.96	0
PAL1B	34	25	SLV @ 02H	N/A	PSV @ 02H	55	N/A	N/A	0
PAL1B	34	103	SLV @ 02H	N/A	CSV @ 02H	56	-0.80	0.93	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B

IN-SERVICE MECHANICAL SLEEVE LIST - 02H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1B	34	107	SLV @ 02H	N/A	CSV @ 02H	57	0.69	0.96	0
PAL1B	34	111	SLV @ 02H	N/A	PSV @ 02H	58	N/A	N/A	0
PAL1B	34	119	SLV @ 02H	N/A	PSV @ 02H	59	N/A	N/A	0
PAL1B	34	129	SLV @ 02H	N/A	PSV @ 02H	60	N/A	N/A	0
PAL1B	37	104	SLV @ 02H	N/A	PSV @ 02H	61	N/A	N/A	0
PAL1B	39	110	SLV @ 02H	N/A	PSV @ 02H	62	N/A	N/A	0
PAL1B	39	116	SLV @ 02H	N/A	CSV @ 02H	63	0.69	0.85	0
PAL1B	40	109	SLV @ 02H	N/A	CSV @ 02H	64	-0.51	0.51	0
PAL1B	41	108	SLV @ 02H	N/A	PSV @ 02H	65	N/A	N/A	0
PAL1B	43	112	SLV @ 02H	N/A	CSV @ 02H	66	-0.40	0.96	0
PAL1B	45	106	SLV @ 02H	N/A	PSV @ 02H	67	N/A	N/A	0
PAL1B	48	109	SLV @ 02H	N/A	PSV @ 02H	68	N/A	N/A	0
PAL1B	51	106	SLV @ 02H	N/A	CSV @ 02H	69	-0.85	-0.37	0
PAL1B	51	110	SLV @ 02H	N/A	PSV @ 02H	70	N/A	N/A	0
PAL1B	53	84	SLV @ 02H	N/A	CSV @ 02H	71	0.77	0.93	0
PAL1B	53	126	SLV @ 02H	N/A	PSV @ 02H	72	N/A	N/A	0
PAL1B	61	76	SLV @ 02H	N/A	PSV @ 02H	73	N/A	N/A	0
PAL1B	61	88	SLV @ 02H	N/A	CSV @ 02H	74	0.51	1.01	0
PAL1B	64	95	SLV @ 02H	N/A	PSV @ 02H	75	N/A	N/A	0
PAL1B	65	92	SLV @ 02H	N/A	PSV @ 02H	76	N/A	N/A	0
PAL1B	66	77	SLV @ 02H	N/A	PSV @ 02H	77	N/A	N/A	0
PAL1B	66	91	SLV @ 02H	N/A	CSV @ 02H	78	0.59	0.85	0
PAL1B	66	95	SLV @ 02H	N/A	PSV @ 02H	79	N/A	N/A	0
PAL1B	67	88	SLV @ 02H	N/A	PSV @ 02H	80	N/A	N/A	0
PAL1B	67	90	SLV @ 02H	N/A	PSV @ 02H	81	N/A	N/A	0
PAL1B	67	92	SLV @ 02H	N/A	PSV @ 02H	82	N/A	N/A	0
PAL1B	69	96	SLV @ 02H	N/A	PSV @ 02H	83	N/A	N/A	0
PAL1B	72	79	SLV @ 02H	N/A	PSV @ 02H	84	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B

IN-SERVICE MECHANICAL SLEEVE LIST - 02H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1B	72	133	SLV @ 02H	N/A	CSV @ 02H	85	0.72	1.01	0
PAL1B	73	80	SLV @ 02H	N/A	PSV @ 02H	86	N/A	N/A	0
PAL1B	73	94	SLV @ 02H	N/A	PSV @ 02H	87	N/A	N/A	0
PAL1B	73	122	SLV @ 02H	N/A	PSV @ 02H	88	N/A	N/A	0
PAL1B	73	124	SLV @ 02H	N/A	CSV @ 02H	89	-1.09	-0.56	0
PAL1B	74	69	SLV @ 02H	N/A	PSV @ 02H	90	N/A	N/A	0
PAL1B	74	93	SLV @ 02H	N/A	CSV @ 02H	91	0.35	1.01	0
PAL1B	75	30	SLV @ 02H	N/A	CSV @ 02H	92	0.51	0.99	0
PAL1B	75	58	SLV @ 02H	N/A	CSV @ 02H	93	-0.93	-0.67	0
PAL1B	75	82	SLV @ 02H	N/A	PSV @ 02H	94	N/A	N/A	0
PAL1B	75	86	SLV @ 02H	N/A	CSV @ 02H	95	0.53	1.01	0
PAL1B	75	88	SLV @ 02H	N/A	PSV @ 02H	96	N/A	N/A	0
PAL1B	75	90	SLV @ 02H	N/A	CSV @ 02H	97	0.56	0.91	0
PAL1B	75	118	SLV @ 02H	N/A	PSV @ 02H	98	N/A	N/A	0
PAL1B	76	79	SLV @ 02H	N/A	PSV @ 02H	99	N/A	N/A	0
PAL1B	78	99	SLV @ 02H	N/A	PSV @ 02H	100	N/A	N/A	0
PAL1B	79	94	SLV @ 02H	N/A	PSV @ 02H	101	N/A	N/A	0
PAL1B	79	106	SLV @ 02H	N/A	CSV @ 02H	102	0.85	0.99	0
PAL1B	79	112	SLV @ 02H	N/A	CSV @ 02H	103	0.13	0.99	0
PAL1B	80	67	SLV @ 02H	N/A	CSV @ 02H	104	-0.69	-0.03	0
PAL1B	80	83	SLV @ 02H	N/A	PSV @ 02H	105	N/A	N/A	0
PAL1B	80	87	SLV @ 02H	N/A	PSV @ 02H	106	N/A	N/A	0
PAL1B	80	89	SLV @ 02H	N/A	CSV @ 02H	107	0.69	0.99	0
PAL1B	80	101	SLV @ 02H	N/A	PSV @ 02H	108	N/A	N/A	0
PAL1B	80	103	SLV @ 02H	N/A	PSV @ 02H	109	N/A	N/A	0
PAL1B	80	127	SLV @ 02H	N/A	PSV @ 02H	110	N/A	N/A	0
PAL1B	81	74	SLV @ 02H	N/A	CSV @ 02H	111	0.29	0.77	0
PAL1B	85	82	SLV @ 02H	N/A	PSV @ 02H	112	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B

IN-SERVICE MECHANICAL SLEEVE LIST - 02H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1B	85	94	SLV @ 02H	N/A	PSV @ 02H	113	N/A	N/A	0
PAL1B	85	98	SLV @ 02H	N/A	CSV @ 02H	114	0.64	0.99	0
PAL1B	88	81	SLV @ 02H	N/A	CSV @ 02H	115	-1.04	-0.45	0
PAL1B	88	93	SLV @ 02H	N/A	PSV @ 02H	116	N/A	N/A	0
PAL1B	89	62	SLV @ 02H	N/A	PSV @ 02H	117	N/A	N/A	0
PAL1B	89	66	SLV @ 02H	N/A	CSV @ 02H	118	0.32	0.85	0
PAL1B	89	76	SLV @ 02H	N/A	CSV @ 02H	119	-0.56	0.99	0
PAL1B	89	90	SLV @ 02H	N/A	PSV @ 02H	120	N/A	N/A	0
PAL1B	89	92	SLV @ 02H	N/A	CSV @ 02H	121	-0.91	-0.11	0
PAL1B	89	98	SLV @ 02H	N/A	PSV @ 02H	122	N/A	N/A	0
PAL1B	89	100	SLV @ 02H	N/A	PSV @ 02H	123	N/A	N/A	0
PAL1B	89	102	SLV @ 02H	N/A	PSV @ 02H	124	N/A	N/A	0
PAL1B	89	104	SLV @ 02H	N/A	PSV @ 02H	125	N/A	N/A	0
PAL1B	89	106	SLV @ 02H	N/A	PSV @ 02H	126	N/A	N/A	0
PAL1B	89	110	SLV @ 02H	N/A	PSV @ 02H	127	N/A	N/A	0
PAL1B	90	53	SLV @ 02H	N/A	CSV @ 02H	128	0.72	1.04	0
PAL1B	90	65	SLV @ 02H	N/A	CSV @ 02H	129	-0.03	0.88	0
PAL1B	90	77	SLV @ 02H	N/A	CSV @ 02H	130	-0.45	0.80	0
PAL1B	90	83	SLV @ 02H	N/A	CSV @ 02H	131	0.05	0.85	0
PAL1B	90	97	SLV @ 02H	N/A	CSV @ 02H	132	0.69	1.04	0
PAL1B	90	99	SLV @ 02H	N/A	CSV @ 02H	133	0.77	0.96	0
PAL1B	91	68	SLV @ 02H	N/A	PSV @ 02H	134	N/A	N/A	0
PAL1B	91	88	SLV @ 02H	N/A	PSV @ 02H	135	N/A	N/A	0
PAL1B	91	94	SLV @ 02H	N/A	CSV @ 02H	136	0.59	0.91	0
PAL1B	94	73	SLV @ 02H	N/A	PSV @ 02H	137	N/A	N/A	0
PAL1B	94	105	SLV @ 02H	N/A	PSV @ 02H	138	N/A	N/A	0
PAL1B	95	104	SLV @ 02H	N/A	PSV @ 02H	139	N/A	N/A	0
PAL1B	95	142	SLV @ 02H	N/A	PSV @ 02H	140	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B

IN-SERVICE MECHANICAL SLEEVE LIST - 02H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1B	97	94	SLV @ 02H	N/A	PSV @ 02H	141	N/A	N/A	0
PAL1B	98	61	SLV @ 02H	N/A	CSV @ 02H	142	0.21	0.51	0
PAL1B	98	95	SLV @ 02H	N/A	PSV @ 02H	143	N/A	N/A	0
PAL1B	99	94	SLV @ 02H	N/A	PSV @ 02H	144	N/A	N/A	0
PAL1B	100	89	SLV @ 02H	N/A	PSV @ 02H	145	N/A	N/A	0
PAL1B	104	93	SLV @ 02H	N/A	CSV @ 02H	146	0.21	0.91	0
PAL1B	104	99	SLV @ 02H	N/A	PSV @ 02H	147	N/A	N/A	0
PAL1B	106	113	SLV @ 02H	N/A	PSV @ 02H	148	N/A	N/A	0
PAL1B	108	109	SLV @ 02H	N/A	PSV @ 02H	149	N/A	N/A	0
PAL1B	109	100	SLV @ 02H	N/A	CSV @ 02H	150	0.53	0.88	0
PAL1B	109	106	SLV @ 02H	N/A	PSV @ 02H	151	N/A	N/A	0
PAL1B	110	91	SLV @ 02H	N/A	CSV @ 02H	152	0.16	0.88	0
PAL1B	113	104	SLV @ 02H	N/A	PSV @ 02H	153	N/A	N/A	0
PAL1B	113	106	SLV @ 02H	N/A	PSV @ 02H	154	N/A	N/A	0
PAL1B	118	75	SLV @ 02H	N/A	PSV @ 02H	155	N/A	N/A	0
Totals:						155			

Notes (Rev. 0):

1. This "In-Service" sleeving list is only for sleeves to be installed at the 2nd hot leg support (02H) and will be installed:

- After** all tubes on the above list have had a sleeve installed at 03H.
- Prior** to any sleeves installed at a lower hot leg support (i.e., 01H).

2. All tubes shall be sleeved using the Alloy 690 Sleeve P/N 8164714-002 (14.5" nominal length).

3. All tubes on the above list had a successful Sleeve GoGage result at the support location per 03-8169881-000; therefore, there are no clearance issues that would prevent the installation of a sleeve.

4. All tubes on the above list were in service during plant operation for Cycle 28. Sleeving of de-plugged tubes that are being returned to service is covered under the "RTS" (Return-to-Service) sleeving list. All eddy current testing required by the Degradation Assessment (51-9378492-000) has been completed on these tubes.

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B
IN-SERVICE MECHANICAL SLEEVE LIST - 02H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
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5. The sleeving strategy implemented at 1D28 uses "corrective" sleeves (CSV) and "preventative" sleeves (PSV) per 51-938851-001 based on whether a repairable flaw (i.e., volumetric indications $\geq 40\%$ TW or crack-like indications) is identified with ECT at the support location.

The criteria for a "corrective" sleeve based on review of the ECT data is as follows:

- The repairable flaw must be located within the center 3" of the sleeve assuming 0.75" uncertainty on either end of the sleeve for the 14.5" sleeve; therefore, the flaw extents must be within ± 1.5 " of the center of the support.
- The repairable flaw must be located at hot leg eggcrate support 01H/02H/03H/04H for tubes in Rows 1-17 or 01H/02H/03H/04H/05H for tubes in Rows 18-138.

The criteria for a "preventative" sleeve based on review of the ECT data is as follows:

- There are no repairable flaws at the hot leg eggcrate support for this support elevation
- There are repairable flaws at a hot leg eggcrate support below this support elevation

6. For the tubes on the above list with corrective sleeves (CSV), the minimum and maximum extent of the flaw(s) at the support are listed as measured from the center of the support from the profile sizing data.

7. The tubes on the above list can remain in service following successful sleeve installation. The criteria for the selection of sleeving candidates based on review of the ECT data, is as follows:

- No volumetric indications $\geq 40\%$ TW or crack-like indications located in the "square-bend" region
- No volumetric indications $\geq 40\%$ TW or crack-like indications located at the top-of-tubesheet
- No volumetric indications $\geq 40\%$ TW or crack-like indications located in the freespan outside of any hot leg eggcrate support
- No volumetric indications $\geq 40\%$ TW or crack-like indications located at the 05H eggcrate support in Rows 1-17 tubes
- No volumetric indications $\geq 40\%$ TW or crack-like indications located at any location along the cold leg
- No volumetric indications $\geq 40\%$ TW or crack-like indications located at any hot leg support above 05H

8. The indications in the tubes on the above list were in-service during plant operation of Cycle 28. The indications in these tubes have screened against the in situ screening criteria. None of the indications in the above tubes require in situ testing.

9. Post-sleeving ECT Bobbin will be performed on the tubes on the above list for positional verification. Post-sleeving ECT +Point will be performed on the tubes on the above list over the length of the sleeve to obtain a baseline of the ECT data.

Approvals:

Craig Kelley 7/28/25 1:54PM

Framatome Integrity Engineering

WILLIAM C. WOODS
7/28/2025 1607
Framatome Data Management

Kenneth L. Johnson 2:48 PM
7/29/2025
Framatome Lead Analyst

Bobby Griffin 2:50 PM
7/28/2025
Utility Representative

Ambar Rodriguez 7/29/2025

D. Powell 7/29/25

Palisades Steam Generator Operational Assessment for Cycle 29

A.23 SGB 03H Sleeve Lists



Palisades Unit 1 - 1D28 - S/G 1B

MECHANICAL SLEEVE LIST - SLEEVE PROCESS VALIDATION (Rev. 2)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Stab	Rev.
PAL1B	75	116	SLV @ 03H	N/A	Sleeve Verification	1	NO	2
Totals:						1	0	

Notes (Rev. 2):

- This list is only for tubes with sleeves intalled for process verification and positional verification only at the 3rd support (03H). The sleeves on this list will be installed:
 - After** all sleeve installations at the 4th support (04H) have been completed.
 - Prior** to any sleeves installed at the 3rd support (03H) in tubes that are to be returned-to-service with sleeves.
- All tubes shall be sleeved using the Alloy 690 Sleeve P/N 8164714-002 (14.5" nominal length).
- The indications in the tubes on the above list have been screened against the in situ screening criteria. None of the indications in the above list require in situ testing.
- The tubes on the above list have been reviewed for skip rolls, over expansions, dents, bulges and additional indications. No such anomalies or indications were detected that would prohibit installation of a sleeve.
- Sleeves on the above list are installed for process verification and positional verification only and are not being used to return the tube to service. All tubes on the list shall be plugged after all post-installation activities are complete.
- Post-sleeving ECT Bobbin will be performed on the tubes on the above list for positional verification.
- Data Management has confirmed that these tubes are included in repair scopes and planned for plugging prior to the unit returning to service.

Approvals:

Craig Kelley 7/24/25 9:48AM

Craig Kelley

Framatome Integrity Engineering

[Signature]

Michael M. Story II
07/24/2025 1650

Framatome Data Management

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7/24/2025

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Chris Peterson

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Date: 25-Jul-25

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B
RTS WITH MECHANICAL SLEEVE LIST - 03H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1B	21	112	SLV @ 03H	N/A	CSV @ 03H	1	-1.06	0.69	0
PAL1B	23	110	SLV @ 03H	N/A	PSV @ 03H	2	N/A	N/A	0
PAL1B	24	55	SLV @ 03H	N/A	PSV @ 03H	3	N/A	N/A	0
PAL1B	27	58	SLV @ 03H	N/A	PSV @ 03H	4	N/A	N/A	0
PAL1B	29	106	SLV @ 03H	N/A	PSV @ 03H	5	N/A	N/A	0
PAL1B	29	116	SLV @ 03H	N/A	PSV @ 03H	6	N/A	N/A	0
PAL1B	31	106	SLV @ 03H	N/A	PSV @ 03H	7	N/A	N/A	0
PAL1B	31	150	SLV @ 03H	N/A	PSV @ 03H	8	N/A	N/A	0
PAL1B	32	155	SLV @ 03H	N/A	PSV @ 03H	9	N/A	N/A	0
PAL1B	34	109	SLV @ 03H	N/A	CSV @ 03H	10	0.32	0.64	0
PAL1B	34	115	SLV @ 03H	N/A	PSV @ 03H	11	N/A	N/A	0
PAL1B	41	148	SLV @ 03H	N/A	PSV @ 03H	12	N/A	N/A	0
PAL1B	77	112	SLV @ 03H	N/A	PSV @ 03H	13	N/A	N/A	0
PAL1B	79	96	SLV @ 03H	N/A	CSV @ 03H	14	-0.37	0.96	0
PAL1B	82	115	SLV @ 03H	N/A	PSV @ 03H	15	N/A	N/A	0
PAL1B	98	77	SLV @ 03H	N/A	PSV @ 03H	16	N/A	N/A	0
PAL1B	98	79	SLV @ 03H	N/A	CSV @ 03H	17	-0.96	-0.72	0
PAL1B	105	102	SLV @ 03H	N/A	PSV @ 03H	18	N/A	N/A	0
PAL1B	122	85	SLV @ 03H	N/A	PSV @ 03H	19	N/A	N/A	0
Totals:						19			

Notes (Rev. 0):

1. This "returning-to-service (RTS) with sleeves" list is only for sleeves to be installed at the 3rd hot leg support (03H) and will be installed:

- a) **After** all tubes on the above list have had a sleeve installed at 04H
- b) **Prior** to any sleeves installed at a lower hot leg support (i.e., 02H, 01H).

2. All tubes shall be sleeved using the Alloy 690 Sleeve P/N 8164714-002 (14.5" nominal length).

3. All tubes on the above list had a successful Sleeve GoGage result at the support location per 03-8169881-000; therefore, there are no clearance issues that would prevent the installation of a sleeve.

4. All tubes on the above list are identified for "RTS with sleeves" and are from tubes originally plugged from in-service inspections per 51-9388329-001 (Appendix B, Table B-1) and de-plugged on both legs during 1D28. The tubes on the above list have had bobbin and +Point ECT acquired and analyzed on both the hot leg and cold leg including the straight section from the tube end to the uppermost support in each tube, and the "square bend" region (defined as starting at +1.75" above the center of the uppermost eggcrate support in each tube) with inspections performed as specified in the Degradation Assessment (51-9378492-000) where applicable.

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B
RTS WITH MECHANICAL SLEEVE LIST - 03H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
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5. The sleeving strategy implemented at 1D28 uses "corrective" sleeve (CSV) and "preventative" sleeves (PSV) per 51-9388851-001 based on whether a repairable flaw (i.e., volumetric indications $\geq 40\%$ TW or crack-like indications) is identified with ECT at the support location.

The criteria for a "corrective" sleeve based on review of the ECT data is as follows:

- The repairable flaw must be located within the center 3" of the sleeve assuming 0.75" uncertainty on either end of the sleeve for the 14.5" sleeve; therefore, the flaw extents must be within ± 1.5 " of the center of the support.
- The repairable flaw must be located at hot leg eggcrate support 01H/02H/03H/04H for tubes in Rows 1-17 or 01H/02H/03H/04H/05H for tubes in Rows 18-138.

The criteria for a "preventative" sleeve based on review of the ECT data is as follows:

- There are no repairable flaws at the hot leg eggcrate support for this support elevation
- There are repairable flaws at a hot leg eggcrate support below this support elevation

6. For the tubes on the above list with corrective sleeves (CSV), the minimum and maximum extent of all flaws at the support are listed as measured from the center of the support from the profile sizing data.

7. The tubes on the above list can be "RTS with sleeves". The criteria for "RTS with sleeves" based on review of the ECT data, is as follows:

- No volumetric indications $\geq 40\%$ TW or crack-like indications located in the "square-bend" region
- No volumetric indications $\geq 40\%$ TW or crack-like indications located at the top-of-tubesheet
- No volumetric indications $\geq 40\%$ TW or crack-like indications located in the freespan outside of any hot leg eggcrate support
- No volumetric indications $\geq 40\%$ TW or crack-like indications located at the 05H eggcrate support in Rows 1-17 tubes
- No volumetric indications $\geq 40\%$ TW or crack-like indications located at any location along the cold leg

8. The indications in the tubes on the above list were not in-service during plant operation of Cycle 28 and are not required to be screened against the in situ screening criteria. Therefore, none of the indications in the above require in situ testing.

9. Post-sleeving ECT Bobbin will be performed on the tubes on the above list for positional verification. Post-sleeving ECT +Point will be performed on the tubes on the above list over the length of the sleeve to obtain a baseline of the ECT data.

Approvals:

Craig Kelley 7/24/25 4:36PM

Framatome Integrity Engineering

Michael M. Story II
07/24/2025 1650

Framatome Data Management

Framatome Lead Analyst

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Date: 25-Jul-25

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B

IN-SERVICE MECHANICAL SLEEVE LIST - 03H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1B	1	2	SLV @ 03H	N/A	PSV @ 03H	1	N/A	N/A	0
PAL1B	1	112	SLV @ 03H	N/A	CSV @ 03H	2	-1.07	-0.83	0
PAL1B	1	140	SLV @ 03H	N/A	PSV @ 03H	3	N/A	N/A	0
PAL1B	4	107	SLV @ 03H	N/A	CSV @ 03H	4	-0.05	0.77	0
PAL1B	4	109	SLV @ 03H	N/A	PSV @ 03H	5	N/A	N/A	0
PAL1B	4	139	SLV @ 03H	N/A	PSV @ 03H	6	N/A	N/A	0
PAL1B	4	153	SLV @ 03H	N/A	PSV @ 03H	7	N/A	N/A	0
PAL1B	4	159	SLV @ 03H	N/A	PSV @ 03H	8	N/A	N/A	0
PAL1B	5	134	SLV @ 03H	N/A	PSV @ 03H	9	N/A	N/A	0
PAL1B	15	110	SLV @ 03H	N/A	CSV @ 03H	10	-0.88	-0.48	0
PAL1B	19	102	SLV @ 03H	N/A	PSV @ 03H	11	N/A	N/A	0
PAL1B	19	110	SLV @ 03H	N/A	CSV @ 03H	12	0.53	0.99	0
PAL1B	19	118	SLV @ 03H	N/A	CSV @ 03H	13	0.53	0.96	0
PAL1B	20	109	SLV @ 03H	N/A	PSV @ 03H	14	N/A	N/A	0
PAL1B	20	121	SLV @ 03H	N/A	PSV @ 03H	15	N/A	N/A	0
PAL1B	21	16	SLV @ 03H	N/A	PSV @ 03H	16	N/A	N/A	0
PAL1B	23	50	SLV @ 03H	N/A	PSV @ 03H	17	N/A	N/A	0
PAL1B	23	106	SLV @ 03H	N/A	PSV @ 03H	18	N/A	N/A	0
PAL1B	23	114	SLV @ 03H	N/A	CSV @ 03H	19	0.35	1.09	0
PAL1B	23	118	SLV @ 03H	N/A	CSV @ 03H	20	0.72	1.04	0
PAL1B	23	120	SLV @ 03H	N/A	PSV @ 03H	21	N/A	N/A	0
PAL1B	23	124	SLV @ 03H	N/A	PSV @ 03H	22	N/A	N/A	0
PAL1B	23	126	SLV @ 03H	N/A	PSV @ 03H	23	N/A	N/A	0
PAL1B	23	130	SLV @ 03H	N/A	PSV @ 03H	24	N/A	N/A	0
PAL1B	23	132	SLV @ 03H	N/A	PSV @ 03H	25	N/A	N/A	0
PAL1B	23	138	SLV @ 03H	N/A	PSV @ 03H	26	N/A	N/A	0
PAL1B	24	117	SLV @ 03H	N/A	PSV @ 03H	27	N/A	N/A	0
PAL1B	25	124	SLV @ 03H	N/A	PSV @ 03H	28	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B

IN-SERVICE MECHANICAL SLEEVE LIST - 03H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1B	27	52	SLV @ 03H	N/A	PSV @ 03H	29	N/A	N/A	0
PAL1B	27	102	SLV @ 03H	N/A	PSV @ 03H	30	N/A	N/A	0
PAL1B	27	116	SLV @ 03H	N/A	PSV @ 03H	31	N/A	N/A	0
PAL1B	27	118	SLV @ 03H	N/A	PSV @ 03H	32	N/A	N/A	0
PAL1B	28	25	SLV @ 03H	N/A	PSV @ 03H	33	N/A	N/A	0
PAL1B	28	37	SLV @ 03H	N/A	PSV @ 03H	34	N/A	N/A	0
PAL1B	28	103	SLV @ 03H	N/A	PSV @ 03H	35	N/A	N/A	0
PAL1B	28	107	SLV @ 03H	N/A	PSV @ 03H	36	N/A	N/A	0
PAL1B	28	109	SLV @ 03H	N/A	PSV @ 03H	37	N/A	N/A	0
PAL1B	28	111	SLV @ 03H	N/A	PSV @ 03H	38	N/A	N/A	0
PAL1B	28	113	SLV @ 03H	N/A	PSV @ 03H	39	N/A	N/A	0
PAL1B	28	115	SLV @ 03H	N/A	PSV @ 03H	40	N/A	N/A	0
PAL1B	28	127	SLV @ 03H	N/A	PSV @ 03H	41	N/A	N/A	0
PAL1B	29	102	SLV @ 03H	N/A	PSV @ 03H	42	N/A	N/A	0
PAL1B	29	110	SLV @ 03H	N/A	PSV @ 03H	43	N/A	N/A	0
PAL1B	29	112	SLV @ 03H	N/A	CSV @ 03H	44	-0.03	0.88	0
PAL1B	29	118	SLV @ 03H	N/A	PSV @ 03H	45	N/A	N/A	0
PAL1B	29	130	SLV @ 03H	N/A	PSV @ 03H	46	N/A	N/A	0
PAL1B	29	134	SLV @ 03H	N/A	PSV @ 03H	47	N/A	N/A	0
PAL1B	29	154	SLV @ 03H	N/A	PSV @ 03H	48	N/A	N/A	0
PAL1B	31	18	SLV @ 03H	N/A	PSV @ 03H	49	N/A	N/A	0
PAL1B	31	46	SLV @ 03H	N/A	PSV @ 03H	50	N/A	N/A	0
PAL1B	31	102	SLV @ 03H	N/A	PSV @ 03H	51	N/A	N/A	0
PAL1B	31	110	SLV @ 03H	N/A	PSV @ 03H	52	N/A	N/A	0
PAL1B	31	112	SLV @ 03H	N/A	PSV @ 03H	53	N/A	N/A	0
PAL1B	31	130	SLV @ 03H	N/A	PSV @ 03H	54	N/A	N/A	0
PAL1B	31	140	SLV @ 03H	N/A	PSV @ 03H	55	N/A	N/A	0
PAL1B	32	107	SLV @ 03H	N/A	PSV @ 03H	56	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B

IN-SERVICE MECHANICAL SLEEVE LIST - 03H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1B	33	108	SLV @ 03H	N/A	PSV @ 03H	57	N/A	N/A	0
PAL1B	33	112	SLV @ 03H	N/A	PSV @ 03H	58	N/A	N/A	0
PAL1B	33	118	SLV @ 03H	N/A	PSV @ 03H	59	N/A	N/A	0
PAL1B	33	150	SLV @ 03H	N/A	PSV @ 03H	60	N/A	N/A	0
PAL1B	34	25	SLV @ 03H	N/A	PSV @ 03H	61	N/A	N/A	0
PAL1B	34	103	SLV @ 03H	N/A	PSV @ 03H	62	N/A	N/A	0
PAL1B	34	107	SLV @ 03H	N/A	PSV @ 03H	63	N/A	N/A	0
PAL1B	34	111	SLV @ 03H	N/A	PSV @ 03H	64	N/A	N/A	0
PAL1B	34	119	SLV @ 03H	N/A	PSV @ 03H	65	N/A	N/A	0
PAL1B	34	129	SLV @ 03H	N/A	PSV @ 03H	66	N/A	N/A	0
PAL1B	37	104	SLV @ 03H	N/A	PSV @ 03H	67	N/A	N/A	0
PAL1B	39	110	SLV @ 03H	N/A	PSV @ 03H	68	N/A	N/A	0
PAL1B	39	116	SLV @ 03H	N/A	PSV @ 03H	69	N/A	N/A	0
PAL1B	40	109	SLV @ 03H	N/A	PSV @ 03H	70	N/A	N/A	0
PAL1B	41	108	SLV @ 03H	N/A	PSV @ 03H	71	N/A	N/A	0
PAL1B	43	112	SLV @ 03H	N/A	PSV @ 03H	72	N/A	N/A	0
PAL1B	45	106	SLV @ 03H	N/A	PSV @ 03H	73	N/A	N/A	0
PAL1B	48	109	SLV @ 03H	N/A	PSV @ 03H	74	N/A	N/A	0
PAL1B	51	106	SLV @ 03H	N/A	PSV @ 03H	75	N/A	N/A	0
PAL1B	51	110	SLV @ 03H	N/A	PSV @ 03H	76	N/A	N/A	0
PAL1B	53	84	SLV @ 03H	N/A	PSV @ 03H	77	N/A	N/A	0
PAL1B	53	126	SLV @ 03H	N/A	PSV @ 03H	78	N/A	N/A	0
PAL1B	61	76	SLV @ 03H	N/A	PSV @ 03H	79	N/A	N/A	0
PAL1B	61	88	SLV @ 03H	N/A	PSV @ 03H	80	N/A	N/A	0
PAL1B	64	95	SLV @ 03H	N/A	PSV @ 03H	81	N/A	N/A	0
PAL1B	65	92	SLV @ 03H	N/A	PSV @ 03H	82	N/A	N/A	0
PAL1B	66	77	SLV @ 03H	N/A	PSV @ 03H	83	N/A	N/A	0
PAL1B	66	91	SLV @ 03H	N/A	PSV @ 03H	84	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B

IN-SERVICE MECHANICAL SLEEVE LIST - 03H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1B	66	95	SLV @ 03H	N/A	PSV @ 03H	85	N/A	N/A	0
PAL1B	67	88	SLV @ 03H	N/A	PSV @ 03H	86	N/A	N/A	0
PAL1B	67	90	SLV @ 03H	N/A	PSV @ 03H	87	N/A	N/A	0
PAL1B	67	92	SLV @ 03H	N/A	PSV @ 03H	88	N/A	N/A	0
PAL1B	69	96	SLV @ 03H	N/A	PSV @ 03H	89	N/A	N/A	0
PAL1B	72	79	SLV @ 03H	N/A	PSV @ 03H	90	N/A	N/A	0
PAL1B	72	133	SLV @ 03H	N/A	PSV @ 03H	91	N/A	N/A	0
PAL1B	73	80	SLV @ 03H	N/A	PSV @ 03H	92	N/A	N/A	0
PAL1B	73	94	SLV @ 03H	N/A	PSV @ 03H	93	N/A	N/A	0
PAL1B	73	122	SLV @ 03H	N/A	PSV @ 03H	94	N/A	N/A	0
PAL1B	73	124	SLV @ 03H	N/A	PSV @ 03H	95	N/A	N/A	0
PAL1B	74	69	SLV @ 03H	N/A	PSV @ 03H	96	N/A	N/A	0
PAL1B	74	93	SLV @ 03H	N/A	PSV @ 03H	97	N/A	N/A	0
PAL1B	75	30	SLV @ 03H	N/A	PSV @ 03H	98	N/A	N/A	0
PAL1B	75	58	SLV @ 03H	N/A	PSV @ 03H	99	N/A	N/A	0
PAL1B	75	82	SLV @ 03H	N/A	PSV @ 03H	100	N/A	N/A	0
PAL1B	75	86	SLV @ 03H	N/A	PSV @ 03H	101	N/A	N/A	0
PAL1B	75	88	SLV @ 03H	N/A	PSV @ 03H	102	N/A	N/A	0
PAL1B	75	90	SLV @ 03H	N/A	CSV @ 03H	103	0.35	0.99	0
PAL1B	75	118	SLV @ 03H	N/A	PSV @ 03H	104	N/A	N/A	0
PAL1B	76	79	SLV @ 03H	N/A	PSV @ 03H	105	N/A	N/A	0
PAL1B	78	99	SLV @ 03H	N/A	PSV @ 03H	106	N/A	N/A	0
PAL1B	79	94	SLV @ 03H	N/A	PSV @ 03H	107	N/A	N/A	0
PAL1B	79	106	SLV @ 03H	N/A	PSV @ 03H	108	N/A	N/A	0
PAL1B	79	112	SLV @ 03H	N/A	CSV @ 03H	109	-0.85	-0.48	0
PAL1B	80	67	SLV @ 03H	N/A	PSV @ 03H	110	N/A	N/A	0
PAL1B	80	83	SLV @ 03H	N/A	PSV @ 03H	111	N/A	N/A	0
PAL1B	80	87	SLV @ 03H	N/A	PSV @ 03H	112	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B

IN-SERVICE MECHANICAL SLEEVE LIST - 03H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1B	80	89	SLV @ 03H	N/A	CSV @ 03H	113	-0.37	0.00	0
PAL1B	80	101	SLV @ 03H	N/A	PSV @ 03H	114	N/A	N/A	0
PAL1B	80	103	SLV @ 03H	N/A	PSV @ 03H	115	N/A	N/A	0
PAL1B	80	127	SLV @ 03H	N/A	PSV @ 03H	116	N/A	N/A	0
PAL1B	81	74	SLV @ 03H	N/A	PSV @ 03H	117	N/A	N/A	0
PAL1B	85	82	SLV @ 03H	N/A	PSV @ 03H	118	N/A	N/A	0
PAL1B	85	94	SLV @ 03H	N/A	CSV @ 03H	119	-0.80	-0.05	0
PAL1B	85	98	SLV @ 03H	N/A	PSV @ 03H	120	N/A	N/A	0
PAL1B	87	98	SLV @ 03H	N/A	CSV @ 03H	121	0.51	0.91	0
PAL1B	88	81	SLV @ 03H	N/A	PSV @ 03H	122	N/A	N/A	0
PAL1B	88	93	SLV @ 03H	N/A	PSV @ 03H	123	N/A	N/A	0
PAL1B	89	62	SLV @ 03H	N/A	PSV @ 03H	124	N/A	N/A	0
PAL1B	89	66	SLV @ 03H	N/A	PSV @ 03H	125	N/A	N/A	0
PAL1B	89	76	SLV @ 03H	N/A	PSV @ 03H	126	N/A	N/A	0
PAL1B	89	90	SLV @ 03H	N/A	PSV @ 03H	127	N/A	N/A	0
PAL1B	89	92	SLV @ 03H	N/A	PSV @ 03H	128	N/A	N/A	0
PAL1B	89	94	SLV @ 03H	N/A	CSV @ 03H	129	-1.01	-0.40	0
PAL1B	89	98	SLV @ 03H	N/A	PSV @ 03H	130	N/A	N/A	0
PAL1B	89	100	SLV @ 03H	N/A	PSV @ 03H	131	N/A	N/A	0
PAL1B	89	102	SLV @ 03H	N/A	PSV @ 03H	132	N/A	N/A	0
PAL1B	89	104	SLV @ 03H	N/A	PSV @ 03H	133	N/A	N/A	0
PAL1B	89	106	SLV @ 03H	N/A	PSV @ 03H	134	N/A	N/A	0
PAL1B	89	110	SLV @ 03H	N/A	PSV @ 03H	135	N/A	N/A	0
PAL1B	90	53	SLV @ 03H	N/A	PSV @ 03H	136	N/A	N/A	0
PAL1B	90	65	SLV @ 03H	N/A	PSV @ 03H	137	N/A	N/A	0
PAL1B	90	77	SLV @ 03H	N/A	PSV @ 03H	138	N/A	N/A	0
PAL1B	90	83	SLV @ 03H	N/A	PSV @ 03H	139	N/A	N/A	0
PAL1B	90	97	SLV @ 03H	N/A	PSV @ 03H	140	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B

IN-SERVICE MECHANICAL SLEEVE LIST - 03H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1B	90	99	SLV @ 03H	N/A	PSV @ 03H	141	N/A	N/A	0
PAL1B	90	103	SLV @ 03H	N/A	CSV @ 03H	142	-0.19	0.29	0
PAL1B	90	119	SLV @ 03H	N/A	CSV @ 03H	143	0.03	0.83	0
PAL1B	91	68	SLV @ 03H	N/A	PSV @ 03H	144	N/A	N/A	0
PAL1B	91	88	SLV @ 03H	N/A	PSV @ 03H	145	N/A	N/A	0
PAL1B	91	94	SLV @ 03H	N/A	CSV @ 03H	146	0.48	0.75	0
PAL1B	94	73	SLV @ 03H	N/A	PSV @ 03H	147	N/A	N/A	0
PAL1B	94	105	SLV @ 03H	N/A	PSV @ 03H	148	N/A	N/A	0
PAL1B	95	104	SLV @ 03H	N/A	PSV @ 03H	149	N/A	N/A	0
PAL1B	95	142	SLV @ 03H	N/A	PSV @ 03H	150	N/A	N/A	0
PAL1B	97	94	SLV @ 03H	N/A	PSV @ 03H	151	N/A	N/A	0
PAL1B	98	61	SLV @ 03H	N/A	PSV @ 03H	152	N/A	N/A	0
PAL1B	98	95	SLV @ 03H	N/A	PSV @ 03H	153	N/A	N/A	0
PAL1B	99	94	SLV @ 03H	N/A	PSV @ 03H	154	N/A	N/A	0
PAL1B	100	89	SLV @ 03H	N/A	PSV @ 03H	155	N/A	N/A	0
PAL1B	104	93	SLV @ 03H	N/A	PSV @ 03H	156	N/A	N/A	0
PAL1B	104	99	SLV @ 03H	N/A	PSV @ 03H	157	N/A	N/A	0
PAL1B	106	113	SLV @ 03H	N/A	PSV @ 03H	158	N/A	N/A	0
PAL1B	108	109	SLV @ 03H	N/A	PSV @ 03H	159	N/A	N/A	0
PAL1B	109	100	SLV @ 03H	N/A	PSV @ 03H	160	N/A	N/A	0
PAL1B	109	106	SLV @ 03H	N/A	PSV @ 03H	161	N/A	N/A	0
PAL1B	110	91	SLV @ 03H	N/A	PSV @ 03H	162	N/A	N/A	0
PAL1B	113	104	SLV @ 03H	N/A	PSV @ 03H	163	N/A	N/A	0
PAL1B	113	106	SLV @ 03H	N/A	PSV @ 03H	164	N/A	N/A	0
PAL1B	118	75	SLV @ 03H	N/A	PSV @ 03H	165	N/A	N/A	0
Totals:						165			

Notes (Rev. 0):

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B

IN-SERVICE MECHANICAL SLEEVE LIST - 03H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
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- This "In-Service" sleeving list is only for sleeves to be installed at the 3rd hot leg support (03H) and will be installed:
 - After** all tubes on the above list have had a sleeve installed at 04H.
 - Prior** to any sleeves installed at a lower hot leg support (i.e., 02H, 01H).
- All tubes shall be sleeved using the Alloy 690 Sleeve P/N 8164714-002 (14.5" nominal length).
- All tubes on the above list had a successful Sleeve GoGage result at the support location per 03-8169881-000; therefore, there are no clearance issues that would prevent the installation of a sleeve.
- All tubes on the above list were in service during plant operation for Cycle 28. Sleeving of de-plugged tubes that are being returned to service is covered under the "RTS" (Return-to-Service) sleeving list. All eddy current testing required by the Degradation Assessment (51-9378492-000) has been completed on these tubes.
- The sleeving strategy implemented at 1D28 uses "corrective" sleeves (CSV) and "preventative" sleeves (PSV) per 51-9388851-001 based on whether a repairable flaw (i.e., volumetric indications $\geq 40\%$ TW or crack-like indications) is identified with ECT at the support location.

The criteria for a "corrective" sleeve based on review of the ECT data is as follows:

 - The repairable flaw must be located within the center 3" of the sleeve assuming 0.75" uncertainty on either end of the sleeve for the 14.5" sleeve; therefore, the flaw extents must be within ± 1.5 " of the center of the support.
 - The repairable flaw must be located at hot leg eggcrate support 01H/02H/03H/04H for tubes in Rows 1-17 or 01H/02H/03H/04H/05H for tubes in Rows 18-138.

The criteria for a "preventative" sleeve based on review of the ECT data is as follows:

 - There **are no** repairable flaws at the hot leg eggcrate support for this support elevation
 - There **are** repairable flaws at a hot leg eggcrate support below this support elevation
- For the tubes on the above list with corrective sleeves (CSV), the minimum and maximum extent of the flaw(s) at the support are listed as measured from the center of the support from the profile sizing data.
- The tubes on the above list can remain in service following successful sleeve installation. The criteria for the selection of sleeving candidates based on review of the ECT data, is as follows:
 - No volumetric indications $\geq 40\%$ TW or crack-like indications located in the "square-bend" region
 - No volumetric indications $\geq 40\%$ TW or crack-like indications located at the top-of-tubesheet
 - No volumetric indications $\geq 40\%$ TW or crack-like indications located in the freespan outside of any hot leg eggcrate support
 - No volumetric indications $\geq 40\%$ TW or crack-like indications located at the 05H eggcrate support in Rows 1-17 tubes
 - No volumetric indications $\geq 40\%$ TW or crack-like indications located at any location along the cold leg
 - No volumetric indications $\geq 40\%$ TW or crack-like indications located at any hot leg support above 05H
- The indications in the tubes on the above list were in-service during plant operation of Cycle 28. The indications in these tubes have screened against the in situ screening criteria. None of the indications in the above tubes require in situ testing.
- Post-sleeving ECT Bobbin will be performed on the tubes on the above list for positional verification. Post-sleeving ECT +Point will be performed on the tubes on the above list over the length of the sleeve to obtain a baseline of the ECT data.

Approvals:

Craig Kelley 7/24/25 4:32PM

Craig Kelley
Framatome Integrity Engineering

Michael M. Stang Jr.
07/24/2025 1650
Framatome Data Management

Michael M. Stang Jr.
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Bobby Griffin 4:55 pm
Bobby Griffin 7/24/2025
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Chris Peterson
Digitally signed by Chris Peterson
Date: 25-Jul-25

Palisades Steam Generator Operational Assessment for Cycle 29

A.24 SGB 04H Sleeve Lists

framato**me**

Palisades Unit 1 - 1D28 - S/G 1B

MECHANICAL SLEEVE LIST - SLEEVE PROCESS VALIDATION (Rev. 1)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Stab	Rev.
PAL1B	75	116	SLV @ 04H	N/A	Sleeve Verification	1	NO	1
Totals:						1	0	

Notes (Rev. 1):

- This list is only for tubes with sleeves installed for process verification and positional verification only at the 4th support (04H). The sleeves on this list will be installed:
 - After** all sleeve installations at the 5th support (05H) have been completed.
 - Prior** to any sleeves installed at the 4th support (04H) in tubes that are to be returned-to-service with sleeves.
- All tubes shall be sleeved using the Alloy 690 Sleeve P/N 8164714-002 (14.5" nominal length).
- The indications in the tubes on the above list have been screened against the in situ screening criteria. None of the indications in the above list require in situ testing.
- The tubes on the above list have been reviewed for skip rolls, over expansions, dents, bulges and additional indications. No such anomalies or indications were detected that would prohibit installation of a sleeve.
- Sleeves on the above list are installed for process verification and positional verification only and are not being used to return the tube to service. All tubes on the list shall be plugged after all post-installation activities are complete.
- Post-sleeving ECT Bobbin will be performed on the tubes on the above list for positional verification.
- Data Management has confirmed that these tubes are included in repair scopes and planned for plugging prior to the unit returning to service.

Approvals:

Craig Kelley 7/21/25 9:38AM

Craig Kelley
Framatome Integrity Engineering

Michael M. Shroy IS
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Framatome Data Management

Randall Johnson 2:56 PM
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7/22/25
Ally Ambar Rodriguez

Edward Don Powl 7/22/25

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B
RTS WITH MECHANICAL SLEEVE LIST - 04H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1B	21	112	SLV @ 04H	N/A	PSV @ 04H	1	N/A	N/A	0
PAL1B	23	110	SLV @ 04H	N/A	PSV @ 04H	2	N/A	N/A	0
PAL1B	24	55	SLV @ 04H	N/A	PSV @ 04H	3	N/A	N/A	0
PAL1B	27	58	SLV @ 04H	N/A	PSV @ 04H	4	N/A	N/A	0
PAL1B	29	106	SLV @ 04H	N/A	CSV @ 04H	5	0.02	1.01	0
PAL1B	29	116	SLV @ 04H	N/A	PSV @ 04H	6	N/A	N/A	0
PAL1B	31	106	SLV @ 04H	N/A	PSV @ 04H	7	N/A	N/A	0
PAL1B	31	150	SLV @ 04H	N/A	CSV @ 04H	8	0.84	0.99	0
PAL1B	32	155	SLV @ 04H	N/A	PSV @ 04H	9	N/A	N/A	0
PAL1B	34	109	SLV @ 04H	N/A	CSV @ 04H	10	-1.01	-0.84	0
PAL1B	34	115	SLV @ 04H	N/A	PSV @ 04H	11	N/A	N/A	0
PAL1B	41	148	SLV @ 04H	N/A	PSV @ 04H	12	N/A	N/A	0
PAL1B	77	112	SLV @ 04H	N/A	PSV @ 04H	13	N/A	N/A	0
PAL1B	79	96	SLV @ 04H	N/A	PSV @ 04H	14	N/A	N/A	0
PAL1B	82	115	SLV @ 04H	N/A	PSV @ 04H	15	N/A	N/A	0
PAL1B	98	77	SLV @ 04H	N/A	CSV @ 04H	16	-0.77	-0.05	0
PAL1B	98	79	SLV @ 04H	N/A	PSV @ 04H	17	N/A	N/A	0
PAL1B	105	102	SLV @ 04H	N/A	PSV @ 04H	18	N/A	N/A	0
PAL1B	122	85	SLV @ 04H	N/A	PSV @ 04H	19	N/A	N/A	0
Totals:						19			

Notes (Rev. 0):

1. This "returning-to-service (RTS) with sleeves" list is only for sleeves to be installed at the 4th hot leg support (04H) and will be installed:

- a) **After** all tubes on the above list have had a sleeve installed at 05H except tubes in Rows 1-17 where a sleeve cannot be installed at 05H
- b) **Prior** to any sleeves installed at a lower hot leg support (i.e., 03H, 02H, 01H).

2. All tubes shall be sleeved using the Alloy 690 Sleeve P/N 8164714-002 (14.5" nominal length).

3. All tubes on the above list had a successful Sleeve GoGage result at the support location per 03-8169881-000; therefore, there are no clearance issues that would prevent the installation of a sleeve.

4. All tubes on the above list are identified for "RTS with sleeves" and are from tubes originally plugged from in-service inspections per 51-9388329-001 (Appendix B, Table B-1) and de-plugged on both legs during 1D28. The tubes on the above list have had bobbin and +Point ECT acquired and analyzed on both the hot leg and cold leg including the straight section from the tube end to the uppermost support in each tube, and the "square bend" region (defined as starting at +1.75" above the center of the uppermost eggcrate support in each tube) with inspections performed as specified in the Degradation Assessment (51-9378492-000) where applicable.

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B
RTS WITH MECHANICAL SLEEVE LIST - 04H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
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5. The sleeving strategy implemented at 1D28 uses "corrective" sleeve (CSV) and "preventative" sleeves (PSV) per 51-938851-001 based on whether a repairable flaw (i.e., volumetric indications $\geq 40\%$ TW or crack-like indications) is identified with ECT at the support location.

The criteria for a "corrective" sleeve based on review of the ECT data is as follows:

- The repairable flaw must be located within the center 3" of the sleeve assuming 0.75" uncertainty on either end of the sleeve for the 14.5" sleeve; therefore, the flaw extents must be within ± 1.5 " of the center of the support.
- The repairable flaw must be located at hot leg eggcrate support 01H/02H/03H/04H for tubes in Rows 1-17 or 01H/02H/03H/04H/05H for tubes in Rows 18-138.

The criteria for a "preventative" sleeve based on review of the ECT data is as follows:

- There are no repairable flaws at the hot leg eggcrate support for this support elevation
- There are repairable flaws at a hot leg eggcrate support below this support elevation

6. For the tubes on the above list with corrective sleeves (CSV), the minimum and maximum extent of all flaws at the support are listed as measured from the center of the support from the profile sizing data.

7. The tubes on the above list can be "RTS with sleeves". The criteria for "RTS with sleeves" based on review of the ECT data, is as follows:

- No volumetric indications $\geq 40\%$ TW or crack-like indications located in the "square-bend" region
- No volumetric indications $\geq 40\%$ TW or crack-like indications located at the top-of-tubesheet
- No volumetric indications $\geq 40\%$ TW or crack-like indications located in the freespan outside of any hot leg eggcrate support
- No volumetric indications $\geq 40\%$ TW or crack-like indications located at the 05H eggcrate support in Rows 1-17 tubes
- No volumetric indications $\geq 40\%$ TW or crack-like indications located at any location along the cold leg

8. The indications in the tubes on the above list were not in-service during plant operation of Cycle 28 and are not required to be screened against the in situ screening criteria. Therefore, none of the indications in the above require in situ testing.

9. Post-sleeving ECT Bobbin will be performed on the tubes on the above list for positional verification. Post-sleeving ECT +Point will be performed on the tubes on the above list over the length of the sleeve to obtain a baseline of the ECT data.

Approvals:

Craig Kelley 7/21/25 2:34PM

Framatome Integrity Engineering

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Alych Ambar Rodriguez
7/22/25

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7/22/25

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B
IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1B	1	2	SLV @ 04H	N/A	PSV @ 04H	1	N/A	N/A	0
PAL1B	1	112	SLV @ 04H	N/A	PSV @ 04H	2	N/A	N/A	0
PAL1B	1	140	SLV @ 04H	N/A	PSV @ 04H	3	N/A	N/A	0
PAL1B	4	107	SLV @ 04H	N/A	PSV @ 04H	4	N/A	N/A	0
PAL1B	4	109	SLV @ 04H	N/A	PSV @ 04H	5	N/A	N/A	0
PAL1B	4	139	SLV @ 04H	N/A	PSV @ 04H	6	N/A	N/A	0
PAL1B	4	153	SLV @ 04H	N/A	PSV @ 04H	7	N/A	N/A	0
PAL1B	4	159	SLV @ 04H	N/A	PSV @ 04H	8	N/A	N/A	0
PAL1B	5	134	SLV @ 04H	N/A	PSV @ 04H	9	N/A	N/A	0
PAL1B	15	110	SLV @ 04H	N/A	PSV @ 04H	10	N/A	N/A	0
PAL1B	19	102	SLV @ 04H	N/A	PSV @ 04H	11	N/A	N/A	0
PAL1B	19	104	SLV @ 04H	N/A	CSV @ 04H	12	0.32	0.96	0
PAL1B	19	110	SLV @ 04H	N/A	CSV @ 04H	13	0.75	1.01	0
PAL1B	19	118	SLV @ 04H	N/A	PSV @ 04H	14	N/A	N/A	0
PAL1B	20	105	SLV @ 04H	N/A	CSV @ 04H	15	-0.43	-0.11	0
PAL1B	20	109	SLV @ 04H	N/A	PSV @ 04H	16	N/A	N/A	0
PAL1B	20	121	SLV @ 04H	N/A	PSV @ 04H	17	N/A	N/A	0
PAL1B	21	16	SLV @ 04H	N/A	PSV @ 04H	18	N/A	N/A	0
PAL1B	21	104	SLV @ 04H	N/A	CSV @ 04H	19	-0.93	-0.53	0
PAL1B	23	50	SLV @ 04H	N/A	PSV @ 04H	20	N/A	N/A	0
PAL1B	23	62	SLV @ 04H	N/A	CSV @ 04H	21	0.48	0.85	0
PAL1B	23	106	SLV @ 04H	N/A	PSV @ 04H	22	N/A	N/A	0
PAL1B	23	114	SLV @ 04H	N/A	PSV @ 04H	23	N/A	N/A	0
PAL1B	23	118	SLV @ 04H	N/A	PSV @ 04H	24	N/A	N/A	0
PAL1B	23	120	SLV @ 04H	N/A	PSV @ 04H	25	N/A	N/A	0
PAL1B	23	124	SLV @ 04H	N/A	PSV @ 04H	26	N/A	N/A	0
PAL1B	23	126	SLV @ 04H	N/A	PSV @ 04H	27	N/A	N/A	0
PAL1B	23	130	SLV @ 04H	N/A	PSV @ 04H	28	N/A	N/A	0
PAL1B	23	132	SLV @ 04H	N/A	PSV @ 04H	29	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B
IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1B	23	138	SLV @ 04H	N/A	PSV @ 04H	30	N/A	N/A	0
PAL1B	24	63	SLV @ 04H	N/A	CSV @ 04H	31	-0.93	-0.83	0
PAL1B	24	111	SLV @ 04H	N/A	CSV @ 04H	32	-1.04	-0.11	0
PAL1B	24	117	SLV @ 04H	N/A	PSV @ 04H	33	N/A	N/A	0
PAL1B	25	124	SLV @ 04H	N/A	PSV @ 04H	34	N/A	N/A	0
PAL1B	27	52	SLV @ 04H	N/A	PSV @ 04H	35	N/A	N/A	0
PAL1B	27	102	SLV @ 04H	N/A	PSV @ 04H	36	N/A	N/A	0
PAL1B	27	116	SLV @ 04H	N/A	PSV @ 04H	37	N/A	N/A	0
PAL1B	27	118	SLV @ 04H	N/A	PSV @ 04H	38	N/A	N/A	0
PAL1B	27	154	SLV @ 04H	N/A	CSV @ 04H	39	0.83	0.99	0
PAL1B	28	25	SLV @ 04H	N/A	PSV @ 04H	40	N/A	N/A	0
PAL1B	28	37	SLV @ 04H	N/A	PSV @ 04H	41	N/A	N/A	0
PAL1B	28	103	SLV @ 04H	N/A	CSV @ 04H	42	-0.99	-0.80	0
PAL1B	28	107	SLV @ 04H	N/A	PSV @ 04H	43	N/A	N/A	0
PAL1B	28	109	SLV @ 04H	N/A	PSV @ 04H	44	N/A	N/A	0
PAL1B	28	111	SLV @ 04H	N/A	PSV @ 04H	45	N/A	N/A	0
PAL1B	28	113	SLV @ 04H	N/A	PSV @ 04H	46	N/A	N/A	0
PAL1B	28	115	SLV @ 04H	N/A	PSV @ 04H	47	N/A	N/A	0
PAL1B	28	127	SLV @ 04H	N/A	PSV @ 04H	48	N/A	N/A	0
PAL1B	29	102	SLV @ 04H	N/A	PSV @ 04H	49	N/A	N/A	0
PAL1B	29	110	SLV @ 04H	N/A	PSV @ 04H	50	N/A	N/A	0
PAL1B	29	112	SLV @ 04H	N/A	PSV @ 04H	51	N/A	N/A	0
PAL1B	29	114	SLV @ 04H	N/A	CSV @ 04H	52	-0.08	0.11	0
PAL1B	29	118	SLV @ 04H	N/A	PSV @ 04H	53	N/A	N/A	0
PAL1B	29	130	SLV @ 04H	N/A	PSV @ 04H	54	N/A	N/A	0
PAL1B	29	134	SLV @ 04H	N/A	PSV @ 04H	55	N/A	N/A	0
PAL1B	29	140	SLV @ 04H	N/A	CSV @ 04H	56	0.75	0.99	0
PAL1B	29	154	SLV @ 04H	N/A	PSV @ 04H	57	N/A	N/A	0
PAL1B	31	18	SLV @ 04H	N/A	PSV @ 04H	58	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B
IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1B	31	46	SLV @ 04H	N/A	PSV @ 04H	59	N/A	N/A	0
PAL1B	31	102	SLV @ 04H	N/A	PSV @ 04H	60	N/A	N/A	0
PAL1B	31	104	SLV @ 04H	N/A	CSV @ 04H	61	0.35	0.85	0
PAL1B	31	110	SLV @ 04H	N/A	PSV @ 04H	62	N/A	N/A	0
PAL1B	31	112	SLV @ 04H	N/A	PSV @ 04H	63	N/A	N/A	0
PAL1B	31	130	SLV @ 04H	N/A	PSV @ 04H	64	N/A	N/A	0
PAL1B	31	140	SLV @ 04H	N/A	PSV @ 04H	65	N/A	N/A	0
PAL1B	32	107	SLV @ 04H	N/A	PSV @ 04H	66	N/A	N/A	0
PAL1B	33	104	SLV @ 04H	N/A	CSV @ 04H	67	-0.72	-0.61	0
PAL1B	33	108	SLV @ 04H	N/A	PSV @ 04H	68	N/A	N/A	0
PAL1B	33	112	SLV @ 04H	N/A	PSV @ 04H	69	N/A	N/A	0
PAL1B	33	118	SLV @ 04H	N/A	PSV @ 04H	70	N/A	N/A	0
PAL1B	33	150	SLV @ 04H	N/A	PSV @ 04H	71	N/A	N/A	0
PAL1B	34	25	SLV @ 04H	N/A	PSV @ 04H	72	N/A	N/A	0
PAL1B	34	103	SLV @ 04H	N/A	PSV @ 04H	73	N/A	N/A	0
PAL1B	34	107	SLV @ 04H	N/A	PSV @ 04H	74	N/A	N/A	0
PAL1B	34	111	SLV @ 04H	N/A	PSV @ 04H	75	N/A	N/A	0
PAL1B	34	119	SLV @ 04H	N/A	PSV @ 04H	76	N/A	N/A	0
PAL1B	34	129	SLV @ 04H	N/A	PSV @ 04H	77	N/A	N/A	0
PAL1B	37	104	SLV @ 04H	N/A	PSV @ 04H	78	N/A	N/A	0
PAL1B	39	110	SLV @ 04H	N/A	PSV @ 04H	79	N/A	N/A	0
PAL1B	39	116	SLV @ 04H	N/A	PSV @ 04H	80	N/A	N/A	0
PAL1B	40	109	SLV @ 04H	N/A	PSV @ 04H	81	N/A	N/A	0
PAL1B	41	108	SLV @ 04H	N/A	PSV @ 04H	82	N/A	N/A	0
PAL1B	41	144	SLV @ 04H	N/A	CSV @ 04H	83	0.75	0.93	0
PAL1B	43	112	SLV @ 04H	N/A	PSV @ 04H	84	N/A	N/A	0
PAL1B	45	106	SLV @ 04H	N/A	PSV @ 04H	85	N/A	N/A	0
PAL1B	48	109	SLV @ 04H	N/A	PSV @ 04H	86	N/A	N/A	0
PAL1B	51	106	SLV @ 04H	N/A	PSV @ 04H	87	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B
IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1B	51	110	SLV @ 04H	N/A	PSV @ 04H	88	N/A	N/A	0
PAL1B	53	84	SLV @ 04H	N/A	PSV @ 04H	89	N/A	N/A	0
PAL1B	53	126	SLV @ 04H	N/A	PSV @ 04H	90	N/A	N/A	0
PAL1B	61	76	SLV @ 04H	N/A	PSV @ 04H	91	N/A	N/A	0
PAL1B	61	88	SLV @ 04H	N/A	PSV @ 04H	92	N/A	N/A	0
PAL1B	64	95	SLV @ 04H	N/A	PSV @ 04H	93	N/A	N/A	0
PAL1B	65	92	SLV @ 04H	N/A	PSV @ 04H	94	N/A	N/A	0
PAL1B	66	77	SLV @ 04H	N/A	PSV @ 04H	95	N/A	N/A	0
PAL1B	66	91	SLV @ 04H	N/A	PSV @ 04H	96	N/A	N/A	0
PAL1B	66	95	SLV @ 04H	N/A	PSV @ 04H	97	N/A	N/A	0
PAL1B	67	88	SLV @ 04H	N/A	PSV @ 04H	98	N/A	N/A	0
PAL1B	67	90	SLV @ 04H	N/A	PSV @ 04H	99	N/A	N/A	0
PAL1B	67	92	SLV @ 04H	N/A	PSV @ 04H	100	N/A	N/A	0
PAL1B	69	96	SLV @ 04H	N/A	PSV @ 04H	101	N/A	N/A	0
PAL1B	72	79	SLV @ 04H	N/A	PSV @ 04H	102	N/A	N/A	0
PAL1B	72	133	SLV @ 04H	N/A	PSV @ 04H	103	N/A	N/A	0
PAL1B	73	80	SLV @ 04H	N/A	PSV @ 04H	104	N/A	N/A	0
PAL1B	73	94	SLV @ 04H	N/A	PSV @ 04H	105	N/A	N/A	0
PAL1B	73	122	SLV @ 04H	N/A	PSV @ 04H	106	N/A	N/A	0
PAL1B	73	124	SLV @ 04H	N/A	CSV @ 04H	107	-1.07	-0.77	0
PAL1B	74	69	SLV @ 04H	N/A	PSV @ 04H	108	N/A	N/A	0
PAL1B	74	93	SLV @ 04H	N/A	PSV @ 04H	109	N/A	N/A	0
PAL1B	75	30	SLV @ 04H	N/A	CSV @ 04H	110	-0.83	-0.35	0
PAL1B	75	32	SLV @ 04H	N/A	CSV @ 04H	111	-0.29	0.03	0
PAL1B	75	58	SLV @ 04H	N/A	PSV @ 04H	112	N/A	N/A	0
PAL1B	75	82	SLV @ 04H	N/A	PSV @ 04H	113	N/A	N/A	0
PAL1B	75	84	SLV @ 04H	N/A	CSV @ 04H	114	0.51	0.80	0
PAL1B	75	86	SLV @ 04H	N/A	PSV @ 04H	115	N/A	N/A	0
PAL1B	75	88	SLV @ 04H	N/A	PSV @ 04H	116	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29


Palisades Unit 1 - 1D28 - S/G 1B
IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1B	75	90	SLV @ 04H	N/A	PSV @ 04H	117	N/A	N/A	0
PAL1B	75	118	SLV @ 04H	N/A	PSV @ 04H	118	N/A	N/A	0
PAL1B	76	79	SLV @ 04H	N/A	PSV @ 04H	119	N/A	N/A	0
PAL1B	78	99	SLV @ 04H	N/A	PSV @ 04H	120	N/A	N/A	0
PAL1B	79	94	SLV @ 04H	N/A	PSV @ 04H	121	N/A	N/A	0
PAL1B	79	106	SLV @ 04H	N/A	PSV @ 04H	122	N/A	N/A	0
PAL1B	79	112	SLV @ 04H	N/A	PSV @ 04H	123	N/A	N/A	0
PAL1B	80	21	SLV @ 04H	N/A	CSV @ 04H	124	-0.91	-0.75	0
PAL1B	80	67	SLV @ 04H	N/A	PSV @ 04H	125	N/A	N/A	0
PAL1B	80	83	SLV @ 04H	N/A	PSV @ 04H	126	N/A	N/A	0
PAL1B	80	87	SLV @ 04H	N/A	PSV @ 04H	127	N/A	N/A	0
PAL1B	80	89	SLV @ 04H	N/A	PSV @ 04H	128	N/A	N/A	0
PAL1B	80	101	SLV @ 04H	N/A	PSV @ 04H	129	N/A	N/A	0
PAL1B	80	103	SLV @ 04H	N/A	PSV @ 04H	130	N/A	N/A	0
PAL1B	80	127	SLV @ 04H	N/A	PSV @ 04H	131	N/A	N/A	0
PAL1B	81	74	SLV @ 04H	N/A	PSV @ 04H	132	N/A	N/A	0
PAL1B	85	82	SLV @ 04H	N/A	PSV @ 04H	133	N/A	N/A	0
PAL1B	85	94	SLV @ 04H	N/A	PSV @ 04H	134	N/A	N/A	0
PAL1B	85	98	SLV @ 04H	N/A	PSV @ 04H	135	N/A	N/A	0
PAL1B	87	98	SLV @ 04H	N/A	PSV @ 04H	136	N/A	N/A	0
PAL1B	88	81	SLV @ 04H	N/A	PSV @ 04H	137	N/A	N/A	0
PAL1B	88	93	SLV @ 04H	N/A	PSV @ 04H	138	N/A	N/A	0
PAL1B	89	62	SLV @ 04H	N/A	PSV @ 04H	139	N/A	N/A	0
PAL1B	89	66	SLV @ 04H	N/A	PSV @ 04H	140	N/A	N/A	0
PAL1B	89	76	SLV @ 04H	N/A	PSV @ 04H	141	N/A	N/A	0
PAL1B	89	90	SLV @ 04H	N/A	PSV @ 04H	142	N/A	N/A	0
PAL1B	89	92	SLV @ 04H	N/A	PSV @ 04H	143	N/A	N/A	0
PAL1B	89	94	SLV @ 04H	N/A	PSV @ 04H	144	N/A	N/A	0
PAL1B	89	98	SLV @ 04H	N/A	PSV @ 04H	145	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B
IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1B	89	100	SLV @ 04H	N/A	PSV @ 04H	146	N/A	N/A	0
PAL1B	89	102	SLV @ 04H	N/A	PSV @ 04H	147	N/A	N/A	0
PAL1B	89	104	SLV @ 04H	N/A	PSV @ 04H	148	N/A	N/A	0
PAL1B	89	106	SLV @ 04H	N/A	PSV @ 04H	149	N/A	N/A	0
PAL1B	89	110	SLV @ 04H	N/A	PSV @ 04H	150	N/A	N/A	0
PAL1B	90	53	SLV @ 04H	N/A	PSV @ 04H	151	N/A	N/A	0
PAL1B	90	65	SLV @ 04H	N/A	PSV @ 04H	152	N/A	N/A	0
PAL1B	90	77	SLV @ 04H	N/A	PSV @ 04H	153	N/A	N/A	0
PAL1B	90	83	SLV @ 04H	N/A	PSV @ 04H	154	N/A	N/A	0
PAL1B	90	97	SLV @ 04H	N/A	PSV @ 04H	155	N/A	N/A	0
PAL1B	90	99	SLV @ 04H	N/A	PSV @ 04H	156	N/A	N/A	0
PAL1B	90	103	SLV @ 04H	N/A	PSV @ 04H	157	N/A	N/A	0
PAL1B	90	119	SLV @ 04H	N/A	PSV @ 04H	158	N/A	N/A	0
PAL1B	91	68	SLV @ 04H	N/A	PSV @ 04H	159	N/A	N/A	0
PAL1B	91	88	SLV @ 04H	N/A	PSV @ 04H	160	N/A	N/A	0
PAL1B	91	94	SLV @ 04H	N/A	PSV @ 04H	161	N/A	N/A	0
PAL1B	94	73	SLV @ 04H	N/A	PSV @ 04H	162	N/A	N/A	0
PAL1B	94	105	SLV @ 04H	N/A	PSV @ 04H	163	N/A	N/A	0
PAL1B	95	104	SLV @ 04H	N/A	PSV @ 04H	164	N/A	N/A	0
PAL1B	95	142	SLV @ 04H	N/A	PSV @ 04H	165	N/A	N/A	0
PAL1B	97	94	SLV @ 04H	N/A	PSV @ 04H	166	N/A	N/A	0
PAL1B	98	61	SLV @ 04H	N/A	PSV @ 04H	167	N/A	N/A	0
PAL1B	98	95	SLV @ 04H	N/A	PSV @ 04H	168	N/A	N/A	0
PAL1B	99	94	SLV @ 04H	N/A	PSV @ 04H	169	N/A	N/A	0
PAL1B	100	89	SLV @ 04H	N/A	PSV @ 04H	170	N/A	N/A	0
PAL1B	104	93	SLV @ 04H	N/A	PSV @ 04H	171	N/A	N/A	0
PAL1B	104	99	SLV @ 04H	N/A	PSV @ 04H	172	N/A	N/A	0
PAL1B	106	113	SLV @ 04H	N/A	PSV @ 04H	173	N/A	N/A	0
PAL1B	108	109	SLV @ 04H	N/A	PSV @ 04H	174	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B

IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1B	109	100	SLV @ 04H	N/A	PSV @ 04H	175	N/A	N/A	0
PAL1B	109	106	SLV @ 04H	N/A	PSV @ 04H	176	N/A	N/A	0
PAL1B	110	91	SLV @ 04H	N/A	PSV @ 04H	177	N/A	N/A	0
PAL1B	113	104	SLV @ 04H	N/A	PSV @ 04H	178	N/A	N/A	0
PAL1B	113	106	SLV @ 04H	N/A	PSV @ 04H	179	N/A	N/A	0
PAL1B	118	75	SLV @ 04H	N/A	PSV @ 04H	180	N/A	N/A	0
Totals:						180			

Notes (Rev. 0):

- This "In-Service" sleeving list is only for sleeves to be installed at the 4th hot leg support (04H) and will be installed:
 - After all tubes on the above list have had a sleeve installed at 05H except all tubes in Rows 1-17 where a sleeve cannot be installed at 05H.
 - Prior to any sleeves installed at a lower hot leg support (i.e., 03H, 02H, 01H).
- All tubes shall be sleeved using the Alloy 690 Sleeve P/N 8164714-002 (14.5" nominal length).
- All tubes on the above list had a successful Sleeve GoGage result at the support location per 03-8169881-000; therefore, there are no clearance issues that would prevent the installation of a sleeve.
- All tubes on the above list were in service during plant operation for Cycle 28. Sleeving of de-plugged tubes that are being returned to service is covered under the "RTS" (Return-to-Service) sleeving list. All eddy current testing required by the Degradation Assessment (51-9378492-000) has been completed on these tubes.
- The sleeving strategy implemented at 1D28 uses "corrective" sleeves (CSV) and "preventative" sleeves (PSV) per 51-9388851-001 based on whether a repairable flaw (i.e., volumetric indications $\geq 40\%TW$ or crack-like indications) is identified with ECT at the support location.
The criteria for a "corrective" sleeve based on review of the ECT data is as follows:
 - The repairable flaw must be located within the center 3" of the sleeve assuming 0.75" uncertainty on either end of the sleeve for the 14.5" sleeve; therefore, the flaw extents must be within ± 1.5 " of the center of the support.
 - The repairable flaw must be located at hot leg eggcrate support 01H/02H/03H/04H for tubes in Rows 1-17 or 01H/02H/03H/04H/05H for tubes in Rows 18-138.
- The criteria for a "preventative" sleeve based on review of the ECT data is as follows:
 - There are no repairable flaws at the hot leg eggcrate support for this support elevation
 - There are repairable flaws at a hot leg eggcrate support below this support elevation
- For the tubes on the above list with corrective sleeves (CSV), the minimum and maximum extent of the flaw(s) at the support are listed as measured from the center of the support from the profile sizing data.
- The tubes on the above list can remain in service following successful sleeve installation. The criteria for the selection of sleeving candidates based on review of the ECT data, is as follows:
 - No volumetric indications $\geq 40\%TW$ or crack-like indications located in the "square-bend" region
 - No volumetric indications $\geq 40\%TW$ or crack-like indications located at the top-of-tubesheet
 - No volumetric indications $\geq 40\%TW$ or crack-like indications located in the freespan outside of any hot leg eggcrate support
 - No volumetric indications $\geq 40\%TW$ or crack-like indications located at the 05H eggcrate support in Rows 1-17 tubes
 - No volumetric indications $\geq 40\%TW$ or crack-like indications located at any location along the cold leg
 - No volumetric indications $\geq 40\%TW$ or crack-like indications located at any hot leg support above 05H

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B
IN-SERVICE MECHANICAL SLEEVE LIST - 04H (Rev. 0)

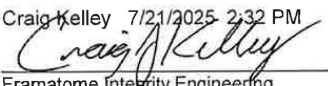
S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
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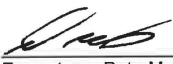
8. The indications in the tubes on the above list were in-service during plant operation of Cycle 28. The indications in these tubes have screened against the in situ screening criteria. None of the indications in the above tubes require in situ testing.

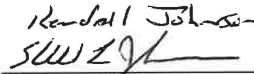
9. Post-sleeving ECT Bobbin will be performed on the tubes on the above list for positional verification. Post-sleeving ECT +Point will be performed on the tubes on the above list over the length of the sleeve to obtain a baseline of the ECT data.

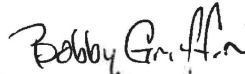
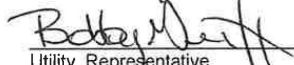
Approvals:

Craig Kelley 7/21/2025 2:32 PM


Framatome Integrity Engineering

 Michael M. Story II
07/21/2025 14:45
Framatome Data Management

 Randall Johnson 2:57 PM
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 Ambar Rodriguez

 Don Powell 7/22/25

Palisades Steam Generator Operational Assessment for Cycle 29

A.25 SGB 05H Sleeve Lists

framato^{me}

Palisades Unit 1 - 1D28 - S/G 1B

MECHANICAL SLEEVE LIST - SLEEVE PROCESS VALIDATION (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Stab	Rev.
PAL1B	75	116	SLV @ 05H	N/A	Sleeve Verification	1	NO	0
Totals:						1	0	

Notes (Rev. 0):

- This list is only for tubes with sleeves intalled for process verification and positional verification only at the 5th support (05H). The sleeves on this list will be installed:
 - Prior to any sleeves installed at the 5th support (05H) in tubes that are to be returned-to-service with sleeves.
- All tubes shall be sleeved using the Alloy 690 Sleeve P/N 8164714-002 (14.5" nominal length).
- The indications in the tubes on the above list have been screened against the in situ screening criteria. None of the indications in the above list require in situ testing.
- The tubes on the above list have been reviewed for skip rolls, over expansions, dents, bulges and additional indications. No such anomalies or indications were detected that would prohibit installation of a sleeve.
- Sleeves on the above list are installed for process verification and positional verification only and are not being used to return the tube to service. All tubes on the list shall be plugged after all post-installation activities are complete.
- Post-sleeving ECT Bobbin will be performed on the tubes on the above list for positional verification.
- Data Management has confirmed that these tubes are included in repair scopes and planned for plugging prior to the unit returning to service.

Approvals:

Chris Guynn 14:08
 Christopher J. Guynn 7/14/25
 Framatome Integrity Engineering
 WILLIAM C. WICKERS
 7/15/2025 1618
 Framatome Data Management
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Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B
RTS WITH MECHANICAL SLEEVE LIST - 05H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1B	21	112	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1B	23	110	SLV @ 05H	N/A	CSV @ 05H	2	0.47	0.96	0
PAL1B	24	55	SLV @ 05H	N/A	PSV @ 05H	3	N/A	N/A	0
PAL1B	27	58	SLV @ 05H	N/A	PSV @ 05H	4	N/A	N/A	0
PAL1B	29	106	SLV @ 05H	N/A	CSV @ 05H	5	-0.94	1.09	0
PAL1B	29	116	SLV @ 05H	N/A	PSV @ 05H	6	N/A	N/A	0
PAL1B	31	106	SLV @ 05H	N/A	CSV @ 05H	7	-0.82	0.92	0
PAL1B	31	150	SLV @ 05H	N/A	PSV @ 05H	8	N/A	N/A	0
PAL1B	32	155	SLV @ 05H	N/A	PSV @ 05H	9	N/A	N/A	0
PAL1B	34	109	SLV @ 05H	N/A	PSV @ 05H	10	N/A	N/A	0
PAL1B	34	115	SLV @ 05H	N/A	PSV @ 05H	11	N/A	N/A	0
PAL1B	41	148	SLV @ 05H	N/A	PSV @ 05H	12	N/A	N/A	0
PAL1B	77	112	SLV @ 05H	N/A	PSV @ 05H	13	N/A	N/A	0
PAL1B	79	96	SLV @ 05H	N/A	PSV @ 05H	14	N/A	N/A	0
PAL1B	82	115	SLV @ 05H	N/A	PSV @ 05H	15	N/A	N/A	0
PAL1B	98	77	SLV @ 05H	N/A	CSV @ 05H	16	0.69	0.99	0
PAL1B	98	79	SLV @ 05H	N/A	PSV @ 05H	17	N/A	N/A	0
PAL1B	105	102	SLV @ 05H	N/A	PSV @ 05H	18	N/A	N/A	0
PAL1B	122	85	SLV @ 05H	N/A	PSV @ 05H	19	N/A	N/A	0
Totals:						19			

Notes (Rev. 0):

1. This "returning-to-service (RTS) with sleeves" list is **only** for sleeves to be installed at the 5th hot leg support (05H) and will be installed **prior** to any sleeves installed at a lower hot leg support (i.e., 04H, 03H, 02H, 01H).
2. All tubes shall be sleeved using the Alloy 690 Sleeve P/N 8164714-002 (14.5" nominal length).
3. All tubes on the above list had a successful Sleeve GoGage result at the support location per 03-8169881-000; therefore, there are no clearance issues that would prevent the installation of a sleeve.
4. All tubes on the above list are identified for "RTS with sleeves" and are from tubes originally plugged from in-service inspections per 51-9388329-001 (Appendix B, Table B-1) and de-plugged on both legs during 1D28. The tubes on the above list have had bobbin and +Point ECT acquired and analyzed on both the hot leg and cold leg including the straight section from the tube end to the uppermost support in each tube, and the "square bend" region (defined as starting at +1.75" above the center of the uppermost eggcrate support in each tube) with inspections performed as specified in the Degradation Assessment (51-9378492-000) where applicable.

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B
RTS WITH MECHANICAL SLEEVE LIST - 05H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
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5. The sleeving strategy implemented at 1D28 uses "corrective" sleeves (CSV) and "preventative" sleeves (PSV) per 51-9388851-001 based on whether a repairable flaw (i.e., volumetric indications $\geq 40\%$ TW or crack-like indications) is identified with ECT at the support location.

The criteria for a "corrective" sleeve based on review of the ECT data is as follows:

- The repairable flaw must be located within the center 3" of the sleeve assuming 0.75" uncertainty on either end of the sleeve for the 14.5" sleeve; therefore, the flaw extents must be within ± 1.5 " of the center of the support.
- The repairable flaw must be located at hot leg eggcrate support 01H/02H/03H/04H for tubes in Rows 1-17 or 01H/02H/03H/04H/05H for tubes in Rows 18-138.

The criteria for a "preventative" sleeve based on review of the ECT data is as follows:

- There are no repairable flaws at the hot leg eggcrate support for this support elevation
 - There are repairable flaws at a hot leg eggcrate support below this support elevation
6. For the tubes on the above list with corrective sleeves (CSV), the minimum and maximum extent of all flaws at the support are listed as measured from the center of the support from the profile sizing data.
7. The tubes on the above list can be "RTS with sleeves". The criteria for "RTS with sleeves" based on review of the ECT data, is as follows:
- No volumetric indications $\geq 40\%$ TW or crack-like indications located in the "square-bend" region
 - No volumetric indications $\geq 40\%$ TW or crack-like indications located at the top-of-tubesheet
 - No volumetric indications $\geq 40\%$ TW or crack-like indications located in the freespan outside of any hot leg eggcrate support
 - No volumetric indications $\geq 40\%$ TW or crack-like indications located at the 05H eggcrate support in Rows 1-17 tubes
 - No volumetric indications $\geq 40\%$ TW or crack-like indications located at any location along the cold leg

8. The indications in the tubes on the above list were not in-service during plant operation of Cycle 28 and are not required to be screened against the in situ screening criteria. Therefore, none of the indications in the above require in situ testing.

9. Post-sleeving ECT Bobbin will be performed on the tubes on the above list for positional verification. Post-sleeving ECT +Point will be performed on the tubes on the above list over the length of the sleeve to obtain a baseline of the ECT data.

Approvals:

Craig Kelley 7/18/25 12:42PM

Framatome Integrity Engineering

Framatome Data Management

Framatome Lead Analyst

Utility Representative

Ambar Rodriguez Alicea

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Date: 2025.07.22 13:49:45 -04'00'

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B
IN-SERVICE MECHANICAL SLEEVE LIST - 05H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1B	19	102	SLV @ 05H	N/A	PSV @ 05H	1	N/A	N/A	0
PAL1B	19	104	SLV @ 05H	N/A	PSV @ 05H	2	N/A	N/A	0
PAL1B	19	110	SLV @ 05H	N/A	PSV @ 05H	3	N/A	N/A	0
PAL1B	19	118	SLV @ 05H	N/A	PSV @ 05H	4	N/A	N/A	0
PAL1B	20	105	SLV @ 05H	N/A	PSV @ 05H	5	N/A	N/A	0
PAL1B	20	109	SLV @ 05H	N/A	PSV @ 05H	6	N/A	N/A	0
PAL1B	20	121	SLV @ 05H	N/A	PSV @ 05H	7	N/A	N/A	0
PAL1B	21	16	SLV @ 05H	N/A	PSV @ 05H	8	N/A	N/A	0
PAL1B	21	104	SLV @ 05H	N/A	CSV @ 05H	9	0.19	0.96	0
PAL1B	23	50	SLV @ 05H	N/A	PSV @ 05H	10	N/A	N/A	0
PAL1B	23	62	SLV @ 05H	N/A	PSV @ 05H	11	N/A	N/A	0
PAL1B	23	106	SLV @ 05H	N/A	CSV @ 05H	12	0.75	0.93	0
PAL1B	23	114	SLV @ 05H	N/A	PSV @ 05H	13	N/A	N/A	0
PAL1B	23	118	SLV @ 05H	N/A	PSV @ 05H	14	N/A	N/A	0
PAL1B	23	120	SLV @ 05H	N/A	PSV @ 05H	15	N/A	N/A	0
PAL1B	23	124	SLV @ 05H	N/A	PSV @ 05H	16	N/A	N/A	0
PAL1B	23	126	SLV @ 05H	N/A	PSV @ 05H	17	N/A	N/A	0
PAL1B	23	130	SLV @ 05H	N/A	PSV @ 05H	18	N/A	N/A	0
PAL1B	23	132	SLV @ 05H	N/A	PSV @ 05H	19	N/A	N/A	0
PAL1B	23	138	SLV @ 05H	N/A	PSV @ 05H	20	N/A	N/A	0
PAL1B	24	63	SLV @ 05H	N/A	PSV @ 05H	21	N/A	N/A	0
PAL1B	24	111	SLV @ 05H	N/A	PSV @ 05H	22	N/A	N/A	0
PAL1B	24	117	SLV @ 05H	N/A	PSV @ 05H	23	N/A	N/A	0
PAL1B	25	124	SLV @ 05H	N/A	PSV @ 05H	24	N/A	N/A	0
PAL1B	27	52	SLV @ 05H	N/A	PSV @ 05H	25	N/A	N/A	0
PAL1B	27	102	SLV @ 05H	N/A	PSV @ 05H	26	N/A	N/A	0
PAL1B	27	116	SLV @ 05H	N/A	PSV @ 05H	27	N/A	N/A	0
PAL1B	27	118	SLV @ 05H	N/A	PSV @ 05H	28	N/A	N/A	0
PAL1B	27	154	SLV @ 05H	N/A	PSV @ 05H	29	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29


Palisades Unit 1 - 1D28 - S/G 1B
IN-SERVICE MECHANICAL SLEEVE LIST - 05H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1B	28	25	SLV @ 05H	N/A	PSV @ 05H	30	N/A	N/A	0
PAL1B	28	37	SLV @ 05H	N/A	PSV @ 05H	31	N/A	N/A	0
PAL1B	28	103	SLV @ 05H	N/A	PSV @ 05H	32	N/A	N/A	0
PAL1B	28	107	SLV @ 05H	N/A	PSV @ 05H	33	N/A	N/A	0
PAL1B	28	109	SLV @ 05H	N/A	PSV @ 05H	34	N/A	N/A	0
PAL1B	28	111	SLV @ 05H	N/A	PSV @ 05H	35	N/A	N/A	0
PAL1B	28	113	SLV @ 05H	N/A	PSV @ 05H	36	N/A	N/A	0
PAL1B	28	115	SLV @ 05H	N/A	PSV @ 05H	37	N/A	N/A	0
PAL1B	28	127	SLV @ 05H	N/A	PSV @ 05H	38	N/A	N/A	0
PAL1B	29	102	SLV @ 05H	N/A	PSV @ 05H	39	N/A	N/A	0
PAL1B	29	110	SLV @ 05H	N/A	PSV @ 05H	40	N/A	N/A	0
PAL1B	29	112	SLV @ 05H	N/A	PSV @ 05H	41	N/A	N/A	0
PAL1B	29	114	SLV @ 05H	N/A	PSV @ 05H	42	N/A	N/A	0
PAL1B	29	118	SLV @ 05H	N/A	PSV @ 05H	43	N/A	N/A	0
PAL1B	29	130	SLV @ 05H	N/A	PSV @ 05H	44	N/A	N/A	0
PAL1B	29	134	SLV @ 05H	N/A	PSV @ 05H	45	N/A	N/A	0
PAL1B	29	140	SLV @ 05H	N/A	PSV @ 05H	46	N/A	N/A	0
PAL1B	29	154	SLV @ 05H	N/A	PSV @ 05H	47	N/A	N/A	0
PAL1B	31	18	SLV @ 05H	N/A	PSV @ 05H	48	N/A	N/A	0
PAL1B	31	46	SLV @ 05H	N/A	PSV @ 05H	49	N/A	N/A	0
PAL1B	31	102	SLV @ 05H	N/A	PSV @ 05H	50	N/A	N/A	0
PAL1B	31	104	SLV @ 05H	N/A	PSV @ 05H	51	N/A	N/A	0
PAL1B	31	110	SLV @ 05H	N/A	PSV @ 05H	52	N/A	N/A	0
PAL1B	31	112	SLV @ 05H	N/A	PSV @ 05H	53	N/A	N/A	0
PAL1B	31	130	SLV @ 05H	N/A	PSV @ 05H	54	N/A	N/A	0
PAL1B	31	140	SLV @ 05H	N/A	PSV @ 05H	55	N/A	N/A	0
PAL1B	32	107	SLV @ 05H	N/A	PSV @ 05H	56	N/A	N/A	0
PAL1B	33	104	SLV @ 05H	N/A	PSV @ 05H	57	N/A	N/A	0
PAL1B	33	108	SLV @ 05H	N/A	CSV @ 05H	58	-0.27	0.93	0

Palisades Steam Generator Operational Assessment for Cycle 29


Palisades Unit 1 - 1D28 - S/G 1B
IN-SERVICE MECHANICAL SLEEVE LIST - 05H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1B	33	112	SLV @ 05H	N/A	PSV @ 05H	59	N/A	N/A	0
PAL1B	33	118	SLV @ 05H	N/A	PSV @ 05H	60	N/A	N/A	0
PAL1B	33	150	SLV @ 05H	N/A	PSV @ 05H	61	N/A	N/A	0
PAL1B	34	25	SLV @ 05H	N/A	PSV @ 05H	62	N/A	N/A	0
PAL1B	34	103	SLV @ 05H	N/A	PSV @ 05H	63	N/A	N/A	0
PAL1B	34	107	SLV @ 05H	N/A	PSV @ 05H	64	N/A	N/A	0
PAL1B	34	111	SLV @ 05H	N/A	PSV @ 05H	65	N/A	N/A	0
PAL1B	34	119	SLV @ 05H	N/A	PSV @ 05H	66	N/A	N/A	0
PAL1B	34	129	SLV @ 05H	N/A	PSV @ 05H	67	N/A	N/A	0
PAL1B	37	104	SLV @ 05H	N/A	PSV @ 05H	68	N/A	N/A	0
PAL1B	39	110	SLV @ 05H	N/A	PSV @ 05H	69	N/A	N/A	0
PAL1B	39	116	SLV @ 05H	N/A	PSV @ 05H	70	N/A	N/A	0
PAL1B	40	109	SLV @ 05H	N/A	PSV @ 05H	71	N/A	N/A	0
PAL1B	41	108	SLV @ 05H	N/A	PSV @ 05H	72	N/A	N/A	0
PAL1B	41	144	SLV @ 05H	N/A	PSV @ 05H	73	N/A	N/A	0
PAL1B	43	112	SLV @ 05H	N/A	PSV @ 05H	74	N/A	N/A	0
PAL1B	45	106	SLV @ 05H	N/A	PSV @ 05H	75	N/A	N/A	0
PAL1B	48	109	SLV @ 05H	N/A	PSV @ 05H	76	N/A	N/A	0
PAL1B	51	106	SLV @ 05H	N/A	PSV @ 05H	77	N/A	N/A	0
PAL1B	51	110	SLV @ 05H	N/A	PSV @ 05H	78	N/A	N/A	0
PAL1B	53	84	SLV @ 05H	N/A	PSV @ 05H	79	N/A	N/A	0
PAL1B	53	126	SLV @ 05H	N/A	PSV @ 05H	80	N/A	N/A	0
PAL1B	61	76	SLV @ 05H	N/A	PSV @ 05H	81	N/A	N/A	0
PAL1B	61	88	SLV @ 05H	N/A	PSV @ 05H	82	N/A	N/A	0
PAL1B	64	95	SLV @ 05H	N/A	PSV @ 05H	83	N/A	N/A	0
PAL1B	65	92	SLV @ 05H	N/A	PSV @ 05H	84	N/A	N/A	0
PAL1B	66	77	SLV @ 05H	N/A	PSV @ 05H	85	N/A	N/A	0
PAL1B	66	91	SLV @ 05H	N/A	PSV @ 05H	86	N/A	N/A	0
PAL1B	66	95	SLV @ 05H	N/A	PSV @ 05H	87	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B
IN-SERVICE MECHANICAL SLEEVE LIST - 05H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1B	67	88	SLV @ 05H	N/A	PSV @ 05H	88	N/A	N/A	0
PAL1B	67	90	SLV @ 05H	N/A	PSV @ 05H	89	N/A	N/A	0
PAL1B	67	92	SLV @ 05H	N/A	PSV @ 05H	90	N/A	N/A	0
PAL1B	69	96	SLV @ 05H	N/A	PSV @ 05H	91	N/A	N/A	0
PAL1B	72	79	SLV @ 05H	N/A	PSV @ 05H	92	N/A	N/A	0
PAL1B	72	133	SLV @ 05H	N/A	PSV @ 05H	93	N/A	N/A	0
PAL1B	73	80	SLV @ 05H	N/A	PSV @ 05H	94	N/A	N/A	0
PAL1B	73	94	SLV @ 05H	N/A	PSV @ 05H	95	N/A	N/A	0
PAL1B	73	122	SLV @ 05H	N/A	PSV @ 05H	96	N/A	N/A	0
PAL1B	73	124	SLV @ 05H	N/A	PSV @ 05H	97	N/A	N/A	0
PAL1B	74	69	SLV @ 05H	N/A	PSV @ 05H	98	N/A	N/A	0
PAL1B	74	93	SLV @ 05H	N/A	PSV @ 05H	99	N/A	N/A	0
PAL1B	75	30	SLV @ 05H	N/A	PSV @ 05H	100	N/A	N/A	0
PAL1B	75	32	SLV @ 05H	N/A	PSV @ 05H	101	N/A	N/A	0
PAL1B	75	58	SLV @ 05H	N/A	PSV @ 05H	102	N/A	N/A	0
PAL1B	75	82	SLV @ 05H	N/A	PSV @ 05H	103	N/A	N/A	0
PAL1B	75	84	SLV @ 05H	N/A	PSV @ 05H	104	N/A	N/A	0
PAL1B	75	86	SLV @ 05H	N/A	PSV @ 05H	105	N/A	N/A	0
PAL1B	75	88	SLV @ 05H	N/A	PSV @ 05H	106	N/A	N/A	0
PAL1B	75	90	SLV @ 05H	N/A	PSV @ 05H	107	N/A	N/A	0
PAL1B	75	118	SLV @ 05H	N/A	PSV @ 05H	108	N/A	N/A	0
PAL1B	76	79	SLV @ 05H	N/A	PSV @ 05H	109	N/A	N/A	0
PAL1B	78	99	SLV @ 05H	N/A	PSV @ 05H	110	N/A	N/A	0
PAL1B	79	94	SLV @ 05H	N/A	PSV @ 05H	111	N/A	N/A	0
PAL1B	79	106	SLV @ 05H	N/A	PSV @ 05H	112	N/A	N/A	0
PAL1B	79	112	SLV @ 05H	N/A	PSV @ 05H	113	N/A	N/A	0
PAL1B	80	21	SLV @ 05H	N/A	PSV @ 05H	114	N/A	N/A	0
PAL1B	80	67	SLV @ 05H	N/A	PSV @ 05H	115	N/A	N/A	0
PAL1B	80	83	SLV @ 05H	N/A	PSV @ 05H	116	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B
IN-SERVICE MECHANICAL SLEEVE LIST - 05H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1B	80	87	SLV @ 05H	N/A	PSV @ 05H	117	N/A	N/A	0
PAL1B	80	89	SLV @ 05H	N/A	CSV @ 05H	118	-0.72	0.03	0
PAL1B	80	101	SLV @ 05H	N/A	PSV @ 05H	119	N/A	N/A	0
PAL1B	80	103	SLV @ 05H	N/A	CSV @ 05H	120	0.77	0.99	0
PAL1B	80	127	SLV @ 05H	N/A	PSV @ 05H	121	N/A	N/A	0
PAL1B	81	74	SLV @ 05H	N/A	PSV @ 05H	122	N/A	N/A	0
PAL1B	85	32	SLV @ 05H	N/A	CSV @ 05H	123	-0.91	-0.48	0
PAL1B	85	82	SLV @ 05H	N/A	PSV @ 05H	124	N/A	N/A	0
PAL1B	85	94	SLV @ 05H	N/A	PSV @ 05H	125	N/A	N/A	0
PAL1B	85	98	SLV @ 05H	N/A	PSV @ 05H	126	N/A	N/A	0
PAL1B	87	98	SLV @ 05H	N/A	PSV @ 05H	127	N/A	N/A	0
PAL1B	88	81	SLV @ 05H	N/A	PSV @ 05H	128	N/A	N/A	0
PAL1B	88	93	SLV @ 05H	N/A	PSV @ 05H	129	N/A	N/A	0
PAL1B	89	62	SLV @ 05H	N/A	PSV @ 05H	130	N/A	N/A	0
PAL1B	89	66	SLV @ 05H	N/A	PSV @ 05H	131	N/A	N/A	0
PAL1B	89	76	SLV @ 05H	N/A	PSV @ 05H	132	N/A	N/A	0
PAL1B	89	90	SLV @ 05H	N/A	PSV @ 05H	133	N/A	N/A	0
PAL1B	89	92	SLV @ 05H	N/A	PSV @ 05H	134	N/A	N/A	0
PAL1B	89	94	SLV @ 05H	N/A	PSV @ 05H	135	N/A	N/A	0
PAL1B	89	98	SLV @ 05H	N/A	PSV @ 05H	136	N/A	N/A	0
PAL1B	89	100	SLV @ 05H	N/A	PSV @ 05H	137	N/A	N/A	0
PAL1B	89	102	SLV @ 05H	N/A	PSV @ 05H	138	N/A	N/A	0
PAL1B	89	104	SLV @ 05H	N/A	PSV @ 05H	139	N/A	N/A	0
PAL1B	89	106	SLV @ 05H	N/A	PSV @ 05H	140	N/A	N/A	0
PAL1B	89	110	SLV @ 05H	N/A	PSV @ 05H	141	N/A	N/A	0
PAL1B	90	53	SLV @ 05H	N/A	PSV @ 05H	142	N/A	N/A	0
PAL1B	90	65	SLV @ 05H	N/A	PSV @ 05H	143	N/A	N/A	0
PAL1B	90	77	SLV @ 05H	N/A	PSV @ 05H	144	N/A	N/A	0
PAL1B	90	83	SLV @ 05H	N/A	PSV @ 05H	145	N/A	N/A	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B
IN-SERVICE MECHANICAL SLEEVE LIST - 05H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
PAL1B	90	97	SLV @ 05H	N/A	PSV @ 05H	146	N/A	N/A	0
PAL1B	90	99	SLV @ 05H	N/A	PSV @ 05H	147	N/A	N/A	0
PAL1B	90	103	SLV @ 05H	N/A	PSV @ 05H	148	N/A	N/A	0
PAL1B	90	119	SLV @ 05H	N/A	PSV @ 05H	149	N/A	N/A	0
PAL1B	91	68	SLV @ 05H	N/A	PSV @ 05H	150	N/A	N/A	0
PAL1B	91	88	SLV @ 05H	N/A	PSV @ 05H	151	N/A	N/A	0
PAL1B	91	94	SLV @ 05H	N/A	PSV @ 05H	152	N/A	N/A	0
PAL1B	94	73	SLV @ 05H	N/A	PSV @ 05H	153	N/A	N/A	0
PAL1B	94	105	SLV @ 05H	N/A	PSV @ 05H	154	N/A	N/A	0
PAL1B	95	104	SLV @ 05H	N/A	PSV @ 05H	155	N/A	N/A	0
PAL1B	95	142	SLV @ 05H	N/A	PSV @ 05H	156	N/A	N/A	0
PAL1B	97	94	SLV @ 05H	N/A	PSV @ 05H	157	N/A	N/A	0
PAL1B	98	61	SLV @ 05H	N/A	PSV @ 05H	158	N/A	N/A	0
PAL1B	98	95	SLV @ 05H	N/A	PSV @ 05H	159	N/A	N/A	0
PAL1B	99	94	SLV @ 05H	N/A	PSV @ 05H	160	N/A	N/A	0
PAL1B	100	89	SLV @ 05H	N/A	PSV @ 05H	161	N/A	N/A	0
PAL1B	104	93	SLV @ 05H	N/A	PSV @ 05H	162	N/A	N/A	0
PAL1B	104	99	SLV @ 05H	N/A	PSV @ 05H	163	N/A	N/A	0
PAL1B	106	113	SLV @ 05H	N/A	PSV @ 05H	164	N/A	N/A	0
PAL1B	108	109	SLV @ 05H	N/A	PSV @ 05H	165	N/A	N/A	0
PAL1B	109	100	SLV @ 05H	N/A	PSV @ 05H	166	N/A	N/A	0
PAL1B	109	106	SLV @ 05H	N/A	PSV @ 05H	167	N/A	N/A	0
PAL1B	110	91	SLV @ 05H	N/A	PSV @ 05H	168	N/A	N/A	0
PAL1B	113	104	SLV @ 05H	N/A	PSV @ 05H	169	N/A	N/A	0
PAL1B	113	106	SLV @ 05H	N/A	PSV @ 05H	170	N/A	N/A	0
PAL1B	118	75	SLV @ 05H	N/A	PSV @ 05H	171	N/A	N/A	0
Totals:						171			

Notes (Rev. 0):

1. This "In-Service" sleeving list is only for sleeves to be installed at the 5th hot leg support (05H) and will be installed prior to any sleeves installed at a lower hot leg support (i.e., 04H, 03H, 02H, 01H).

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B

IN-SERVICE MECHANICAL SLEEVE LIST - 05H (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for Tube Repair	Sleeve Qty.	Flaw Min Ext.	Flaw Max Ext.	Rev.
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2. All tubes shall be sleeved using the Alloy 690 Sleeve P/N 8164714-002 (14.5" nominal length).

3. All tubes on the above list had a successful Sleeve GoGage result at the support location per 03-8169881-000; therefore, there are no clearance issues that would prevent the installation of a sleeve.

4. All tubes on the above list were in service during plant operation for Cycle 28. Sleeving of de-plugged tubes that are being returned to service is covered under the "RTS" (Return-to-Service) sleeving list. All eddy current testing required by the Degradation Assessment (51-9378492-000) has been completed on these tubes.

5. The sleeving strategy implemented at 1D28 uses "corrective" sleeves (CSV) and "preventative" sleeves (PSV) per 51-9388851-001 based on whether a repairable flaw (i.e., volumetric indications $\geq 40\%$ TW or crack-like indications) is identified with ECT at the support location.

The criteria for a "corrective" sleeve based on review of the ECT data is as follows:

- a) The repairable flaw must be located within the center 3" of the sleeve assuming 0.75" uncertainty on either end of the sleeve for the 14.5" sleeve; therefore, the flaw extents must be within ± 1.5 " of the center of the support.
- b) The repairable flaw must be located at hot leg eggcrate support 01H/02H/03H/04H for tubes in Rows 1-17 or 01H/02H/03H/04H/05H for tubes in Rows 18-138.

The criteria for a "preventative" sleeve based on review of the ECT data is as follows:

- a) There are no repairable flaws at the hot leg eggcrate support for this support elevation
- b) There are repairable flaws at a hot leg eggcrate support below this support elevation

6. For the tubes on the above list with corrective sleeves (CSV), the minimum and maximum extent of the flaw(s) at the support are listed as measured from the center of the support from the profile sizing data.

7. The tubes on the above list can remain in service following successful sleeve installation. The criteria for the selection of sleeving candidates based on review of the ECT data, is as follows:

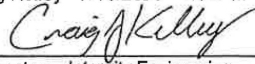
- a. No volumetric indications $\geq 40\%$ TW or crack-like indications located in the "square-bend" region
- b. No volumetric indications $\geq 40\%$ TW or crack-like indications located at the top-of-tubesheet
- c. No volumetric indications $\geq 40\%$ TW or crack-like indications located in the freespan outside of any hot leg eggcrate support
- d. No volumetric indications $\geq 40\%$ TW or crack-like indications located at the 05H eggcrate support in Rows 1-17 tubes
- e. No volumetric indications $\geq 40\%$ TW or crack-like indications located at any location along the cold leg
- f. No volumetric indications $\geq 40\%$ TW or crack-like indications located at any hot leg support above 05H

8. The indications in the tubes on the above list were in-service during plant operation of Cycle 28. The indications in these tubes have screened against the in situ screening criteria. None of the indications in the above tubes require in situ testing.

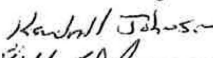
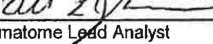
9. Post-sleeving ECT Bobbin will be performed on the tubes on the above list for positional verification. Post-sleeving ECT +Point will be performed on the tubes on the above list over the length of the sleeve to obtain a baseline of the ECT data.

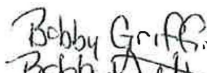
Approvals:

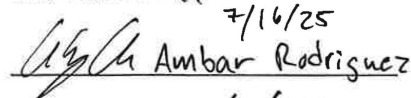
Craig Kelley 7/15/2025 4:06PM


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Palisades Steam Generator Operational Assessment for Cycle 29

A.26 SGA Remain in Service List



Palisades Unit 1 - 1D28 - S/G 1A

REMAIN IN-SERVICE WITH SLEEVE LIST - FINAL (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for RTS	Tube Qty.	Stab	Rev.
PAL1A	1	156	CSVx1, PSVx2	N/A	Installed Hot Leg Sleeves	1	NO	0
PAL1A	2	53	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	2	NO	0
PAL1A	3	114	CSVx1, PSVx2	N/A	Installed Hot Leg Sleeves	3	NO	0
PAL1A	4	15	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	4	NO	0
PAL1A	4	25	CSVx1, PSVx0	N/A	Installed Hot Leg Sleeves	5	NO	0
PAL1A	4	33	CSVx1, PSVx0	N/A	Installed Hot Leg Sleeves	6	NO	0
PAL1A	4	55	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	7	NO	0
PAL1A	4	107	CSVx1, PSVx0	N/A	Installed Hot Leg Sleeves	8	NO	0
PAL1A	4	113	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	9	NO	0
PAL1A	4	117	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	10	NO	0
PAL1A	5	110	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	11	NO	0
PAL1A	7	56	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	12	NO	0
PAL1A	7	58	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	13	NO	0
PAL1A	7	106	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	14	NO	0
PAL1A	7	112	CSVx1, PSVx0	N/A	Installed Hot Leg Sleeves	15	NO	0
PAL1A	7	118	CSVx2, PSVx2	N/A	Installed Hot Leg Sleeves	16	NO	0
PAL1A	7	122	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	17	NO	0
PAL1A	7	126	CSVx1, PSVx0	N/A	Installed Hot Leg Sleeves	18	NO	0
PAL1A	8	13	CSVx1, PSVx2	N/A	Installed Hot Leg Sleeves	19	NO	0
PAL1A	8	107	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	20	NO	0
PAL1A	8	109	CSVx3, PSVx1	N/A	Installed Hot Leg Sleeves	21	NO	0
PAL1A	8	113	CSVx2, PSVx0	N/A	Installed Hot Leg Sleeves	22	NO	0
PAL1A	8	117	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	23	NO	0
PAL1A	8	121	CSVx1, PSVx2	N/A	Installed Hot Leg Sleeves	24	NO	0
PAL1A	9	130	CSVx2, PSVx0	N/A	Installed Hot Leg Sleeves	25	NO	0
PAL1A	10	19	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	26	NO	0
PAL1A	10	53	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	27	NO	0
PAL1A	10	117	CSVx3, PSVx1	N/A	Installed Hot Leg Sleeves	28	NO	0
PAL1A	10	125	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	29	NO	0
PAL1A	10	129	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	30	NO	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
REMAIN IN-SERVICE WITH SLEEVE LIST - FINAL (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for RTS	Tube Qty.	Stab	Rev.
PAL1A	10	131	CSVx1, PSVx0	N/A	Installed Hot Leg Sleeves	31	NO	0
PAL1A	10	133	CSVx1, PSVx2	N/A	Installed Hot Leg Sleeves	32	NO	0
PAL1A	10	153	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	33	NO	0
PAL1A	11	40	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	34	NO	0
PAL1A	11	50	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	35	NO	0
PAL1A	11	116	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	36	NO	0
PAL1A	11	118	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	37	NO	0
PAL1A	11	120	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	38	NO	0
PAL1A	11	134	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	39	NO	0
PAL1A	11	136	CSVx1, PSVx0	N/A	Installed Hot Leg Sleeves	40	NO	0
PAL1A	11	146	CSVx1, PSVx2	N/A	Installed Hot Leg Sleeves	41	NO	0
PAL1A	12	19	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	42	NO	0
PAL1A	12	111	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	43	NO	0
PAL1A	12	113	CSVx2, PSVx2	N/A	Installed Hot Leg Sleeves	44	NO	0
PAL1A	12	155	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	45	NO	0
PAL1A	13	36	CSVx1, PSVx0	N/A	Installed Hot Leg Sleeves	46	NO	0
PAL1A	13	58	CSVx2, PSVx2	N/A	Installed Hot Leg Sleeves	47	NO	0
PAL1A	13	124	CSVx1, PSVx2	N/A	Installed Hot Leg Sleeves	48	NO	0
PAL1A	13	140	CSVx1, PSVx0	N/A	Installed Hot Leg Sleeves	49	NO	0
PAL1A	14	5	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	50	NO	0
PAL1A	14	57	CSVx1, PSVx0	N/A	Installed Hot Leg Sleeves	51	NO	0
PAL1A	14	107	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	52	NO	0
PAL1A	14	117	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	53	NO	0
PAL1A	14	121	CSVx1, PSVx2	N/A	Installed Hot Leg Sleeves	54	NO	0
PAL1A	14	133	CSVx1, PSVx0	N/A	Installed Hot Leg Sleeves	55	NO	0
PAL1A	15	48	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	56	NO	0
PAL1A	15	50	CSVx1, PSVx2	N/A	Installed Hot Leg Sleeves	57	NO	0
PAL1A	15	104	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	58	NO	0
PAL1A	15	110	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	59	NO	0
PAL1A	15	112	CSVx2, PSVx2	N/A	Installed Hot Leg Sleeves	60	NO	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A

REMAIN IN-SERVICE WITH SLEEVE LIST - FINAL (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for RTS	Tube Qty.	Stab	Rev.
PAL1A	15	116	CSVx4, PSVx0	N/A	Installed Hot Leg Sleeves	61	NO	0
PAL1A	15	124	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	62	NO	0
PAL1A	15	128	CSVx1, PSVx0	N/A	Installed Hot Leg Sleeves	63	NO	0
PAL1A	15	134	CSVx1, PSVx0	N/A	Installed Hot Leg Sleeves	64	NO	0
PAL1A	15	140	CSVx1, PSVx0	N/A	Installed Hot Leg Sleeves	65	NO	0
PAL1A	15	152	CSVx1, PSVx2	N/A	Installed Hot Leg Sleeves	66	NO	0
PAL1A	15	158	CSVx1, PSVx2	N/A	Installed Hot Leg Sleeves	67	NO	0
PAL1A	16	19	CSVx1, PSVx0	N/A	Installed Hot Leg Sleeves	68	NO	0
PAL1A	16	109	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	69	NO	0
PAL1A	16	113	CSVx3, PSVx1	N/A	Installed Hot Leg Sleeves	70	NO	0
PAL1A	16	115	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	71	NO	0
PAL1A	16	129	CSVx2, PSVx0	N/A	Installed Hot Leg Sleeves	72	NO	0
PAL1A	17	44	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	73	NO	0
PAL1A	17	60	CSVx1, PSVx0	N/A	Installed Hot Leg Sleeves	74	NO	0
PAL1A	17	106	CSVx1, PSVx2	N/A	Installed Hot Leg Sleeves	75	NO	0
PAL1A	17	110	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	76	NO	0
PAL1A	17	112	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	77	NO	0
PAL1A	17	114	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	78	NO	0
PAL1A	17	118	CSVx1, PSVx2	N/A	Installed Hot Leg Sleeves	79	NO	0
PAL1A	17	120	CSVx2, PSVx2	N/A	Installed Hot Leg Sleeves	80	NO	0
PAL1A	17	126	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	81	NO	0
PAL1A	17	132	CSVx1, PSVx2	N/A	Installed Hot Leg Sleeves	82	NO	0
PAL1A	17	148	CSVx1, PSVx0	N/A	Installed Hot Leg Sleeves	83	NO	0
PAL1A	17	150	CSVx1, PSVx2	N/A	Installed Hot Leg Sleeves	84	NO	0
PAL1A	18	37	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	85	NO	0
PAL1A	18	47	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	86	NO	0
PAL1A	18	49	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	87	NO	0
PAL1A	18	105	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	88	NO	0
PAL1A	18	117	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	89	NO	0
PAL1A	18	121	CSVx1, PSVx2	N/A	Installed Hot Leg Sleeves	90	NO	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
REMAIN IN-SERVICE WITH SLEEVE LIST - FINAL (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for RTS	Tube Qty.	Stab	Rev.
PAL1A	18	123	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	91	NO	0
PAL1A	18	129	CSVx3, PSVx1	N/A	Installed Hot Leg Sleeves	92	NO	0
PAL1A	18	135	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	93	NO	0
PAL1A	18	145	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	94	NO	0
PAL1A	19	44	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	95	NO	0
PAL1A	19	46	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	96	NO	0
PAL1A	19	60	CSVx1, PSVx0	N/A	Installed Hot Leg Sleeves	97	NO	0
PAL1A	19	62	CSVx1, PSVx2	N/A	Installed Hot Leg Sleeves	98	NO	0
PAL1A	19	104	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	99	NO	0
PAL1A	19	106	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	100	NO	0
PAL1A	19	108	CSVx1, PSVx0	N/A	Installed Hot Leg Sleeves	101	NO	0
PAL1A	19	112	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	102	NO	0
PAL1A	19	114	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	103	NO	0
PAL1A	19	120	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	104	NO	0
PAL1A	19	122	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	105	NO	0
PAL1A	19	126	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	106	NO	0
PAL1A	19	128	CSVx1, PSVx2	N/A	Installed Hot Leg Sleeves	107	NO	0
PAL1A	19	138	CSVx1, PSVx0	N/A	Installed Hot Leg Sleeves	108	NO	0
PAL1A	19	148	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	109	NO	0
PAL1A	20	15	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	110	NO	0
PAL1A	20	113	CSVx1, PSVx0	N/A	Installed Hot Leg Sleeves	111	NO	0
PAL1A	21	36	CSVx1, PSVx0	N/A	Installed Hot Leg Sleeves	112	NO	0
PAL1A	21	42	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	113	NO	0
PAL1A	21	56	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	114	NO	0
PAL1A	21	102	CSVx3, PSVx2	N/A	Installed Hot Leg Sleeves	115	NO	0
PAL1A	21	104	CSVx3, PSVx1	N/A	Installed Hot Leg Sleeves	116	NO	0
PAL1A	21	106	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	117	NO	0
PAL1A	21	110	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	118	NO	0
PAL1A	21	118	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	119	NO	0
PAL1A	21	128	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	120	NO	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
REMAIN IN-SERVICE WITH SLEEVE LIST - FINAL (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for RTS	Tube Qty.	Stab	Rev.
PAL1A	21	156	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	121	NO	0
PAL1A	22	37	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	122	NO	0
PAL1A	22	61	CSVx2, PSVx1	N/A	Installed Hot Leg Sleeves	123	NO	0
PAL1A	22	107	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	124	NO	0
PAL1A	22	115	CSVx1, PSVx0	N/A	Installed Hot Leg Sleeves	125	NO	0
PAL1A	23	50	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	126	NO	0
PAL1A	23	58	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	127	NO	0
PAL1A	23	60	CSVx2, PSVx0	N/A	Installed Hot Leg Sleeves	128	NO	0
PAL1A	23	62	CSVx1, PSVx0	N/A	Installed Hot Leg Sleeves	129	NO	0
PAL1A	23	116	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	130	NO	0
PAL1A	23	122	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	131	NO	0
PAL1A	23	130	CSVx1, PSVx0	N/A	Installed Hot Leg Sleeves	132	NO	0
PAL1A	23	132	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	133	NO	0
PAL1A	23	150	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	134	NO	0
PAL1A	24	47	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	135	NO	0
PAL1A	24	107	CSVx2, PSVx0	N/A	Installed Hot Leg Sleeves	136	NO	0
PAL1A	24	133	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	137	NO	0
PAL1A	24	137	CSVx1, PSVx0	N/A	Installed Hot Leg Sleeves	138	NO	0
PAL1A	24	159	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	139	NO	0
PAL1A	25	62	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	140	NO	0
PAL1A	25	102	CSVx2, PSVx1	N/A	Installed Hot Leg Sleeves	141	NO	0
PAL1A	25	108	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	142	NO	0
PAL1A	25	124	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	143	NO	0
PAL1A	25	128	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	144	NO	0
PAL1A	25	140	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	145	NO	0
PAL1A	25	146	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	146	NO	0
PAL1A	25	154	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	147	NO	0
PAL1A	26	63	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	148	NO	0
PAL1A	26	111	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	149	NO	0
PAL1A	26	115	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	150	NO	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
REMAIN IN-SERVICE WITH SLEEVE LIST - FINAL (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for RTS	Tube Qty.	Stab	Rev.
PAL1A	26	117	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	151	NO	0
PAL1A	26	139	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	152	NO	0
PAL1A	26	157	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	153	NO	0
PAL1A	27	46	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	154	NO	0
PAL1A	27	56	CSVx2, PSVx0	N/A	Installed Hot Leg Sleeves	155	NO	0
PAL1A	27	60	CSVx2, PSVx0	N/A	Installed Hot Leg Sleeves	156	NO	0
PAL1A	27	62	CSVx2, PSVx1	N/A	Installed Hot Leg Sleeves	157	NO	0
PAL1A	27	104	CSVx2, PSVx2	N/A	Installed Hot Leg Sleeves	158	NO	0
PAL1A	27	108	CSVx2, PSVx0	N/A	Installed Hot Leg Sleeves	159	NO	0
PAL1A	27	110	CSVx2, PSVx2	N/A	Installed Hot Leg Sleeves	160	NO	0
PAL1A	27	114	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	161	NO	0
PAL1A	27	134	CSVx2, PSVx2	N/A	Installed Hot Leg Sleeves	162	NO	0
PAL1A	27	140	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	163	NO	0
PAL1A	27	148	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	164	NO	0
PAL1A	27	152	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	165	NO	0
PAL1A	27	158	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	166	NO	0
PAL1A	28	55	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	167	NO	0
PAL1A	28	63	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	168	NO	0
PAL1A	28	105	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	169	NO	0
PAL1A	28	107	CSVx1, PSVx0	N/A	Installed Hot Leg Sleeves	170	NO	0
PAL1A	29	28	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	171	NO	0
PAL1A	29	52	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	172	NO	0
PAL1A	29	102	CSVx3, PSVx1	N/A	Installed Hot Leg Sleeves	173	NO	0
PAL1A	29	104	CSVx3, PSVx2	N/A	Installed Hot Leg Sleeves	174	NO	0
PAL1A	29	106	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	175	NO	0
PAL1A	29	130	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	176	NO	0
PAL1A	29	152	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	177	NO	0
PAL1A	30	107	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	178	NO	0
PAL1A	31	46	CSVx1, PSVx0	N/A	Installed Hot Leg Sleeves	179	NO	0
PAL1A	31	54	CSVx2, PSVx2	N/A	Installed Hot Leg Sleeves	180	NO	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
REMAIN IN-SERVICE WITH SLEEVE LIST - FINAL (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for RTS	Tube Qty.	Stab	Rev.
PAL1A	32	103	CSVx3, PSVx2	N/A	Installed Hot Leg Sleeves	181	NO	0
PAL1A	32	105	CSVx2, PSVx2	N/A	Installed Hot Leg Sleeves	182	NO	0
PAL1A	32	107	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	183	NO	0
PAL1A	32	113	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	184	NO	0
PAL1A	32	119	CSVx1, PSVx0	N/A	Installed Hot Leg Sleeves	185	NO	0
PAL1A	32	155	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	186	NO	0
PAL1A	33	16	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	187	NO	0
PAL1A	33	26	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	188	NO	0
PAL1A	33	54	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	189	NO	0
PAL1A	33	56	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	190	NO	0
PAL1A	33	60	CSVx2, PSVx0	N/A	Installed Hot Leg Sleeves	191	NO	0
PAL1A	33	106	CSVx3, PSVx1	N/A	Installed Hot Leg Sleeves	192	NO	0
PAL1A	33	108	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	193	NO	0
PAL1A	33	110	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	194	NO	0
PAL1A	33	112	CSVx3, PSVx2	N/A	Installed Hot Leg Sleeves	195	NO	0
PAL1A	33	114	CSVx1, PSVx0	N/A	Installed Hot Leg Sleeves	196	NO	0
PAL1A	33	144	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	197	NO	0
PAL1A	33	146	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	198	NO	0
PAL1A	34	23	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	199	NO	0
PAL1A	34	59	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	200	NO	0
PAL1A	35	58	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	201	NO	0
PAL1A	35	102	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	202	NO	0
PAL1A	35	104	CSVx2, PSVx0	N/A	Installed Hot Leg Sleeves	203	NO	0
PAL1A	35	106	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	204	NO	0
PAL1A	35	150	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	205	NO	0
PAL1A	36	43	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	206	NO	0
PAL1A	36	47	CSVx1, PSVx0	N/A	Installed Hot Leg Sleeves	207	NO	0
PAL1A	36	59	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	208	NO	0
PAL1A	36	103	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	209	NO	0
PAL1A	36	105	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	210	NO	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
REMAIN IN-SERVICE WITH SLEEVE LIST - FINAL (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for RTS	Tube Qty.	Stab	Rev.
PAL1A	36	111	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	211	NO	0
PAL1A	37	106	CSVx2, PSVx2	N/A	Installed Hot Leg Sleeves	212	NO	0
PAL1A	37	116	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	213	NO	0
PAL1A	38	57	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	214	NO	0
PAL1A	38	109	CSVx3, PSVx2	N/A	Installed Hot Leg Sleeves	215	NO	0
PAL1A	38	137	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	216	NO	0
PAL1A	39	60	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	217	NO	0
PAL1A	39	108	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	218	NO	0
PAL1A	39	110	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	219	NO	0
PAL1A	39	120	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	220	NO	0
PAL1A	39	122	CSVx3, PSVx2	N/A	Installed Hot Leg Sleeves	221	NO	0
PAL1A	40	111	CSVx2, PSVx0	N/A	Installed Hot Leg Sleeves	222	NO	0
PAL1A	40	129	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	223	NO	0
PAL1A	41	108	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	224	NO	0
PAL1A	43	112	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	225	NO	0
PAL1A	44	59	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	226	NO	0
PAL1A	44	99	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	227	NO	0
PAL1A	44	105	CSVx2, PSVx2	N/A	Installed Hot Leg Sleeves	228	NO	0
PAL1A	45	58	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	229	NO	0
PAL1A	45	104	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	230	NO	0
PAL1A	45	158	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	231	NO	0
PAL1A	46	35	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	232	NO	0
PAL1A	46	59	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	233	NO	0
PAL1A	46	67	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	234	NO	0
PAL1A	46	111	CSVx2, PSVx2	N/A	Installed Hot Leg Sleeves	235	NO	0
PAL1A	46	121	CSVx2, PSVx2	N/A	Installed Hot Leg Sleeves	236	NO	0
PAL1A	46	125	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	237	NO	0
PAL1A	46	145	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	238	NO	0
PAL1A	47	48	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	239	NO	0
PAL1A	47	62	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	240	NO	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
REMAIN IN-SERVICE WITH SLEEVE LIST - FINAL (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for RTS	Tube Qty.	Stab	Rev.
PAL1A	47	108	CSVx2, PSVx2	N/A	Installed Hot Leg Sleeves	241	NO	0
PAL1A	47	126	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	242	NO	0
PAL1A	48	45	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	243	NO	0
PAL1A	48	69	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	244	NO	0
PAL1A	48	105	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	245	NO	0
PAL1A	48	113	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	246	NO	0
PAL1A	49	100	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	247	NO	0
PAL1A	49	102	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	248	NO	0
PAL1A	49	108	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	249	NO	0
PAL1A	49	110	CSVx1, PSVx2	N/A	Installed Hot Leg Sleeves	250	NO	0
PAL1A	50	99	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	251	NO	0
PAL1A	50	101	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	252	NO	0
PAL1A	50	113	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	253	NO	0
PAL1A	52	97	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	254	NO	0
PAL1A	56	85	CSVx1, PSVx2	N/A	Installed Hot Leg Sleeves	255	NO	0
PAL1A	56	111	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	256	NO	0
PAL1A	57	52	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	257	NO	0
PAL1A	57	68	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	258	NO	0
PAL1A	57	90	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	259	NO	0
PAL1A	57	112	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	260	NO	0
PAL1A	57	134	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	261	NO	0
PAL1A	58	69	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	262	NO	0
PAL1A	58	101	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	263	NO	0
PAL1A	60	91	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	264	NO	0
PAL1A	60	93	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	265	NO	0
PAL1A	60	95	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	266	NO	0
PAL1A	60	97	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	267	NO	0
PAL1A	61	106	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	268	NO	0
PAL1A	61	110	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	269	NO	0
PAL1A	61	118	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	270	NO	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
REMAIN IN-SERVICE WITH SLEEVE LIST - FINAL (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for RTS	Tube Qty.	Stab	Rev.
PAL1A	63	38	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	271	NO	0
PAL1A	63	48	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	272	NO	0
PAL1A	63	86	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	273	NO	0
PAL1A	63	90	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	274	NO	0
PAL1A	64	93	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	275	NO	0
PAL1A	64	95	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	276	NO	0
PAL1A	65	114	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	277	NO	0
PAL1A	66	77	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	278	NO	0
PAL1A	66	95	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	279	NO	0
PAL1A	67	88	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	280	NO	0
PAL1A	67	96	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	281	NO	0
PAL1A	68	83	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	282	NO	0
PAL1A	68	95	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	283	NO	0
PAL1A	69	62	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	284	NO	0
PAL1A	69	78	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	285	NO	0
PAL1A	69	86	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	286	NO	0
PAL1A	69	88	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	287	NO	0
PAL1A	69	90	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	288	NO	0
PAL1A	69	92	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	289	NO	0
PAL1A	69	94	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	290	NO	0
PAL1A	70	15	CSVx1, PSVx2	N/A	Installed Hot Leg Sleeves	291	NO	0
PAL1A	70	23	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	292	NO	0
PAL1A	70	87	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	293	NO	0
PAL1A	70	93	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	294	NO	0
PAL1A	70	111	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	295	NO	0
PAL1A	70	117	CSVx2, PSVx2	N/A	Installed Hot Leg Sleeves	296	NO	0
PAL1A	70	131	CSVx2, PSVx1	N/A	Installed Hot Leg Sleeves	297	NO	0
PAL1A	70	153	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	298	NO	0
PAL1A	71	48	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	299	NO	0
PAL1A	71	58	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	300	NO	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
REMAIN IN-SERVICE WITH SLEEVE LIST - FINAL (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for RTS	Tube Qty.	Stab	Rev.
PAL1A	71	92	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	301	NO	0
PAL1A	71	102	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	302	NO	0
PAL1A	71	110	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	303	NO	0
PAL1A	71	122	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	304	NO	0
PAL1A	72	57	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	305	NO	0
PAL1A	72	83	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	306	NO	0
PAL1A	72	85	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	307	NO	0
PAL1A	72	89	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	308	NO	0
PAL1A	72	91	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	309	NO	0
PAL1A	73	58	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	310	NO	0
PAL1A	73	72	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	311	NO	0
PAL1A	73	78	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	312	NO	0
PAL1A	73	80	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	313	NO	0
PAL1A	73	86	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	314	NO	0
PAL1A	74	85	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	315	NO	0
PAL1A	74	95	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	316	NO	0
PAL1A	74	101	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	317	NO	0
PAL1A	74	105	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	318	NO	0
PAL1A	75	84	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	319	NO	0
PAL1A	75	92	CSVx2, PSVx2	N/A	Installed Hot Leg Sleeves	320	NO	0
PAL1A	75	94	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	321	NO	0
PAL1A	77	54	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	322	NO	0
PAL1A	77	74	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	323	NO	0
PAL1A	77	90	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	324	NO	0
PAL1A	77	126	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	325	NO	0
PAL1A	78	41	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	326	NO	0
PAL1A	78	73	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	327	NO	0
PAL1A	78	87	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	328	NO	0
PAL1A	78	103	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	329	NO	0
PAL1A	78	113	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	330	NO	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
REMAIN IN-SERVICE WITH SLEEVE LIST - FINAL (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for RTS	Tube Qty.	Stab	Rev.
PAL1A	80	79	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	331	NO	0
PAL1A	80	99	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	332	NO	0
PAL1A	80	113	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	333	NO	0
PAL1A	81	80	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	334	NO	0
PAL1A	81	110	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	335	NO	0
PAL1A	82	87	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	336	NO	0
PAL1A	82	101	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	337	NO	0
PAL1A	82	109	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	338	NO	0
PAL1A	83	96	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	339	NO	0
PAL1A	83	98	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	340	NO	0
PAL1A	83	102	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	341	NO	0
PAL1A	84	59	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	342	NO	0
PAL1A	84	93	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	343	NO	0
PAL1A	85	110	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	344	NO	0
PAL1A	86	93	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	345	NO	0
PAL1A	88	47	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	346	NO	0
PAL1A	88	83	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	347	NO	0
PAL1A	88	93	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	348	NO	0
PAL1A	88	97	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	349	NO	0
PAL1A	88	99	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	350	NO	0
PAL1A	88	105	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	351	NO	0
PAL1A	88	107	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	352	NO	0
PAL1A	88	115	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	353	NO	0
PAL1A	89	54	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	354	NO	0
PAL1A	89	90	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	355	NO	0
PAL1A	89	96	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	356	NO	0
PAL1A	89	98	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	357	NO	0
PAL1A	89	114	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	358	NO	0
PAL1A	90	59	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	359	NO	0
PAL1A	90	89	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	360	NO	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
REMAIN IN-SERVICE WITH SLEEVE LIST - FINAL (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for RTS	Tube Qty.	Stab	Rev.
PAL1A	90	125	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	361	NO	0
PAL1A	91	64	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	362	NO	0
PAL1A	91	70	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	363	NO	0
PAL1A	91	72	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	364	NO	0
PAL1A	91	78	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	365	NO	0
PAL1A	91	84	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	366	NO	0
PAL1A	91	88	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	367	NO	0
PAL1A	91	90	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	368	NO	0
PAL1A	91	94	CSVx3, PSVx2	N/A	Installed Hot Leg Sleeves	369	NO	0
PAL1A	91	96	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	370	NO	0
PAL1A	91	98	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	371	NO	0
PAL1A	91	100	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	372	NO	0
PAL1A	91	104	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	373	NO	0
PAL1A	91	124	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	374	NO	0
PAL1A	92	25	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	375	NO	0
PAL1A	92	45	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	376	NO	0
PAL1A	92	95	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	377	NO	0
PAL1A	92	97	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	378	NO	0
PAL1A	92	101	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	379	NO	0
PAL1A	92	107	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	380	NO	0
PAL1A	92	109	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	381	NO	0
PAL1A	92	113	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	382	NO	0
PAL1A	93	26	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	383	NO	0
PAL1A	93	50	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	384	NO	0
PAL1A	93	74	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	385	NO	0
PAL1A	93	90	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	386	NO	0
PAL1A	93	100	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	387	NO	0
PAL1A	93	122	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	388	NO	0
PAL1A	94	77	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	389	NO	0
PAL1A	94	99	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	390	NO	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
REMAIN IN-SERVICE WITH SLEEVE LIST - FINAL (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for RTS	Tube Qty.	Stab	Rev.
PAL1A	95	72	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	391	NO	0
PAL1A	95	80	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	392	NO	0
PAL1A	95	90	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	393	NO	0
PAL1A	95	94	CSVx3, PSVx2	N/A	Installed Hot Leg Sleeves	394	NO	0
PAL1A	95	96	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	395	NO	0
PAL1A	96	99	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	396	NO	0
PAL1A	96	103	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	397	NO	0
PAL1A	98	53	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	398	NO	0
PAL1A	99	112	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	399	NO	0
PAL1A	99	114	CSVx2, PSVx2	N/A	Installed Hot Leg Sleeves	400	NO	0
PAL1A	99	128	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	401	NO	0
PAL1A	100	91	CSVx1, PSVx2	N/A	Installed Hot Leg Sleeves	402	NO	0
PAL1A	100	97	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	403	NO	0
PAL1A	100	107	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	404	NO	0
PAL1A	100	111	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	405	NO	0
PAL1A	100	119	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	406	NO	0
PAL1A	101	56	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	407	NO	0
PAL1A	101	94	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	408	NO	0
PAL1A	101	104	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	409	NO	0
PAL1A	101	118	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	410	NO	0
PAL1A	102	99	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	411	NO	0
PAL1A	102	109	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	412	NO	0
PAL1A	103	76	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	413	NO	0
PAL1A	103	84	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	414	NO	0
PAL1A	103	92	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	415	NO	0
PAL1A	103	100	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	416	NO	0
PAL1A	103	102	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	417	NO	0
PAL1A	103	106	CSVx1, PSVx2	N/A	Installed Hot Leg Sleeves	418	NO	0
PAL1A	103	110	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	419	NO	0
PAL1A	104	107	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	420	NO	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
REMAIN IN-SERVICE WITH SLEEVE LIST - FINAL (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for RTS	Tube Qty.	Stab	Rev.
PAL1A	105	74	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	421	NO	0
PAL1A	105	76	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	422	NO	0
PAL1A	105	112	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	423	NO	0
PAL1A	106	69	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	424	NO	0
PAL1A	106	87	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	425	NO	0
PAL1A	106	107	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	426	NO	0
PAL1A	106	135	CSVx1, PSVx2	N/A	Installed Hot Leg Sleeves	427	NO	0
PAL1A	107	54	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	428	NO	0
PAL1A	107	60	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	429	NO	0
PAL1A	107	72	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	430	NO	0
PAL1A	107	108	CSVx3, PSVx2	N/A	Installed Hot Leg Sleeves	431	NO	0
PAL1A	107	122	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	432	NO	0
PAL1A	108	71	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	433	NO	0
PAL1A	109	62	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	434	NO	0
PAL1A	109	68	CSVx2, PSVx2	N/A	Installed Hot Leg Sleeves	435	NO	0
PAL1A	109	80	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	436	NO	0
PAL1A	109	86	CSVx2, PSVx2	N/A	Installed Hot Leg Sleeves	437	NO	0
PAL1A	109	90	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	438	NO	0
PAL1A	109	94	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	439	NO	0
PAL1A	109	118	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	440	NO	0
PAL1A	110	61	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	441	NO	0
PAL1A	110	69	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	442	NO	0
PAL1A	110	91	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	443	NO	0
PAL1A	110	103	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	444	NO	0
PAL1A	110	109	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	445	NO	0
PAL1A	110	131	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	446	NO	0
PAL1A	111	38	CSVx1, PSVx2	N/A	Installed Hot Leg Sleeves	447	NO	0
PAL1A	111	62	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	448	NO	0
PAL1A	111	72	CSVx1, PSVx2	N/A	Installed Hot Leg Sleeves	449	NO	0
PAL1A	111	90	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	450	NO	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
REMAIN IN-SERVICE WITH SLEEVE LIST - FINAL (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for RTS	Tube Qty.	Stab	Rev.
PAL1A	111	94	CSVx1, PSVx2	N/A	Installed Hot Leg Sleeves	451	NO	0
PAL1A	113	54	CSVx1, PSVx2	N/A	Installed Hot Leg Sleeves	452	NO	0
PAL1A	113	82	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	453	NO	0
PAL1A	113	88	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	454	NO	0
PAL1A	113	90	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	455	NO	0
PAL1A	113	96	CSVx2, PSVx2	N/A	Installed Hot Leg Sleeves	456	NO	0
PAL1A	113	98	CSVx1, PSVx2	N/A	Installed Hot Leg Sleeves	457	NO	0
PAL1A	113	102	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	458	NO	0
PAL1A	113	104	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	459	NO	0
PAL1A	113	118	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	460	NO	0
PAL1A	114	69	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	461	NO	0
PAL1A	114	73	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	462	NO	0
PAL1A	114	75	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	463	NO	0
PAL1A	114	91	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	464	NO	0
PAL1A	114	93	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	465	NO	0
PAL1A	114	111	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	466	NO	0
PAL1A	115	76	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	467	NO	0
PAL1A	115	88	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	468	NO	0
PAL1A	115	98	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	469	NO	0
PAL1A	115	104	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	470	NO	0
PAL1A	115	106	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	471	NO	0
PAL1A	115	108	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	472	NO	0
PAL1A	116	87	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	473	NO	0
PAL1A	117	56	CSVx1, PSVx2	N/A	Installed Hot Leg Sleeves	474	NO	0
PAL1A	117	104	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	475	NO	0
PAL1A	119	96	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	476	NO	0
PAL1A	120	51	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	477	NO	0
PAL1A	120	91	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	478	NO	0
PAL1A	121	90	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	479	NO	0
PAL1A	121	98	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	480	NO	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A
REMAIN IN-SERVICE WITH SLEEVE LIST - FINAL (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for RTS	Tube Qty.	Stab	Rev.
PAL1A	121	102	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	481	NO	0
PAL1A	121	104	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	482	NO	0
PAL1A	121	106	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	483	NO	0
PAL1A	122	63	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	484	NO	0
PAL1A	122	89	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	485	NO	0
PAL1A	123	48	CSVx1, PSVx2	N/A	Installed Hot Leg Sleeves	486	NO	0
PAL1A	123	88	CSVx1, PSVx2	N/A	Installed Hot Leg Sleeves	487	NO	0
PAL1A	123	94	CSVx3, PSVx2	N/A	Installed Hot Leg Sleeves	488	NO	0
PAL1A	125	66	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	489	NO	0
PAL1A	125	98	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	490	NO	0
PAL1A	125	102	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	491	NO	0
PAL1A	127	64	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	492	NO	0
PAL1A	128	71	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	493	NO	0
PAL1A	128	81	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	494	NO	0
PAL1A	128	91	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	495	NO	0
PAL1A	128	97	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	496	NO	0
PAL1A	129	74	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	497	NO	0
PAL1A	129	90	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	498	NO	0
PAL1A	129	98	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	499	NO	0
PAL1A	130	65	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	500	NO	0
PAL1A	130	95	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	501	NO	0
PAL1A	130	97	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	502	NO	0
PAL1A	134	65	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	503	NO	0
PAL1A	134	99	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	504	NO	0
PAL1A	136	87	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	505	NO	0
PAL1A	136	89	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	506	NO	0
PAL1A	137	84	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	507	NO	0
PAL1A	137	86	CSVx1, PSVx0	N/A	Installed Hot Leg Sleeves	508	NO	0
PAL1A	138	89	CSVx1, PSVx2	N/A	Installed Hot Leg Sleeves	509	NO	0
Totals:						509	0	

Notes (Rev. 0):

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1A

REMAIN IN-SERVICE WITH SLEEVE LIST - FINAL (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for RTS	Tube Qty.	Stab	Rev.
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1. All tubes on the above list are identified for "Remaining-in-Service (RIS) with sleeves" and have had sleeves installed at all repairable indications at hot leg eggcrate supports.

2. All tubes on the above list are from tubes in-service prior to the 1D28 inspection, were inspected with ECT as specified per the Degradation Assessment (51-9378492-000), and were screened using the sleeving strategy implemented at 1D28.

3. The sleeving strategy implemented at 1D28 uses "corrective" sleeves (CSV) and "preventative" sleeves (PSV) per 51-9388851-001 based on whether a repairable flaw (i.e., volumetric indications $\geq 40\%$ TV or crack-like indications) is identified with ECT at the support location. All tubes on the above list have at a minimum one corrective sleeve (CSV) installed and up to four preventative sleeves (PSV) installed.

The criteria for a "corrective" sleeve based on review of the ECT data is as follows:

a. The repairable flaw must be located within the center 3" of the sleeve assuming 0.75" uncertainty on either end of the sleeve for the 14.5" sleeve; therefore, the flaw extents must be within ± 1.5 " of the center of the support.

b. The repairable flaw must be located at hot leg eggcrate support 01H/02H/03H/04H for tubes in Rows 1-17 or 01H/02H/03H/04H/05H for tubes in Rows 18-138.

The criteria for a "preventative" sleeve based on review of the ECT data is as follows:

a. There are no repairable flaws at the hot leg eggcrate support for this support elevation

b. There are repairable flaws at a hot leg eggcrate support below this support elevation

4. The indications queried for in FDMS to generate this list are consistent with those specified in the Analysis Guidelines for Tech Spec required to be plugged (TBP) and include: $\geq 40\%$, MAI, MCI, MMI, MVI, SAI, SCI, SVI. All tubes on this list with indications that meet this TBP criteria have a corrective sleeve installed at that location.

5. All tubes on the above list have been screened to include as preventative tube plugging (PTP) criteria any tube with foreign object wear that has a foreign object or potential loose part (PLP) indication. None of the tubes on the above list met this PTP criteria.

Approvals:

Craig Kelley 8/1/25 9:58AM

Craig Kelley
Framatome Integrity Engineering

William C. Weller
Framatome Data Management

William C. Weller
Framatome Lead Analyst

William C. Weller
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Bobby Griffin 10:55 AM

Bobby Griffin 8/1/2025
Utility Representative

Allyssa Ambar Rodriguez 8/4/2025

Don Powell 8/4/25

Palisades Steam Generator Operational Assessment for Cycle 29

A.27 SGB Remain in Service List



Palisades Unit 1 - 1D28 - S/G 1B
REMAIN IN-SERVICE WITH SLEEVE LIST - FINAL (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for RTS	Tube Qty.	Stab	Rev.
PAL1B	1	2	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	1	NO	0
PAL1B	1	112	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	2	NO	0
PAL1B	1	140	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	3	NO	0
PAL1B	4	107	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	4	NO	0
PAL1B	4	109	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	5	NO	0
PAL1B	4	139	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	6	NO	0
PAL1B	4	153	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	7	NO	0
PAL1B	4	159	CSVx1, PSVx2	N/A	Installed Hot Leg Sleeves	8	NO	0
PAL1B	5	134	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	9	NO	0
PAL1B	15	110	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	10	NO	0
PAL1B	19	102	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	11	NO	0
PAL1B	19	104	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	12	NO	0
PAL1B	19	110	CSVx2, PSVx1	N/A	Installed Hot Leg Sleeves	13	NO	0
PAL1B	19	118	CSVx1, PSVx2	N/A	Installed Hot Leg Sleeves	14	NO	0
PAL1B	20	105	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	15	NO	0
PAL1B	20	109	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	16	NO	0
PAL1B	20	121	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	17	NO	0
PAL1B	21	16	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	18	NO	0
PAL1B	21	104	CSVx2, PSVx0	N/A	Installed Hot Leg Sleeves	19	NO	0
PAL1B	23	50	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	20	NO	0
PAL1B	23	62	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	21	NO	0
PAL1B	23	106	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	22	NO	0
PAL1B	23	114	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	23	NO	0
PAL1B	23	118	CSVx1, PSVx2	N/A	Installed Hot Leg Sleeves	24	NO	0
PAL1B	23	120	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	25	NO	0
PAL1B	23	124	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	26	NO	0
PAL1B	23	126	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	27	NO	0
PAL1B	23	130	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	28	NO	0
PAL1B	23	132	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	29	NO	0
PAL1B	23	138	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	30	NO	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B
REMAIN IN-SERVICE WITH SLEEVE LIST - FINAL (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for RTS	Tube Qty.	Stab	Rev.
PAL1B	24	63	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	31	NO	0
PAL1B	24	111	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	32	NO	0
PAL1B	24	117	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	33	NO	0
PAL1B	25	124	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	34	NO	0
PAL1B	27	52	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	35	NO	0
PAL1B	27	102	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	36	NO	0
PAL1B	27	116	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	37	NO	0
PAL1B	27	118	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	38	NO	0
PAL1B	27	154	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	39	NO	0
PAL1B	28	25	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	40	NO	0
PAL1B	28	37	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	41	NO	0
PAL1B	28	103	CSVx3, PSVx2	N/A	Installed Hot Leg Sleeves	42	NO	0
PAL1B	28	107	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	43	NO	0
PAL1B	28	109	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	44	NO	0
PAL1B	28	111	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	45	NO	0
PAL1B	28	113	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	46	NO	0
PAL1B	28	115	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	47	NO	0
PAL1B	28	127	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	48	NO	0
PAL1B	29	102	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	49	NO	0
PAL1B	29	110	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	50	NO	0
PAL1B	29	112	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	51	NO	0
PAL1B	29	114	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	52	NO	0
PAL1B	29	118	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	53	NO	0
PAL1B	29	130	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	54	NO	0
PAL1B	29	134	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	55	NO	0
PAL1B	29	140	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	56	NO	0
PAL1B	29	154	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	57	NO	0
PAL1B	31	18	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	58	NO	0
PAL1B	31	46	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	59	NO	0
PAL1B	31	102	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	60	NO	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B
REMAIN IN-SERVICE WITH SLEEVE LIST - FINAL (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for RTS	Tube Qty.	Stab	Rev.
PAL1B	31	104	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	61	NO	0
PAL1B	31	110	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	62	NO	0
PAL1B	31	112	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	63	NO	0
PAL1B	31	130	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	64	NO	0
PAL1B	31	140	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	65	NO	0
PAL1B	32	107	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	66	NO	0
PAL1B	33	104	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	67	NO	0
PAL1B	33	108	CSVx3, PSVx2	N/A	Installed Hot Leg Sleeves	68	NO	0
PAL1B	33	112	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	69	NO	0
PAL1B	33	118	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	70	NO	0
PAL1B	33	150	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	71	NO	0
PAL1B	34	25	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	72	NO	0
PAL1B	34	103	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	73	NO	0
PAL1B	34	107	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	74	NO	0
PAL1B	34	111	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	75	NO	0
PAL1B	34	119	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	76	NO	0
PAL1B	34	129	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	77	NO	0
PAL1B	37	104	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	78	NO	0
PAL1B	39	110	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	79	NO	0
PAL1B	39	116	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	80	NO	0
PAL1B	40	109	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	81	NO	0
PAL1B	41	108	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	82	NO	0
PAL1B	41	144	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	83	NO	0
PAL1B	43	112	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	84	NO	0
PAL1B	45	106	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	85	NO	0
PAL1B	48	109	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	86	NO	0
PAL1B	51	106	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	87	NO	0
PAL1B	51	110	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	88	NO	0
PAL1B	53	84	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	89	NO	0
PAL1B	53	126	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	90	NO	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B
REMAIN IN-SERVICE WITH SLEEVE LIST - FINAL (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for RTS	Tube Qty.	Stab	Rev.
PAL1B	61	76	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	91	NO	0
PAL1B	61	88	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	92	NO	0
PAL1B	64	95	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	93	NO	0
PAL1B	65	92	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	94	NO	0
PAL1B	66	77	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	95	NO	0
PAL1B	66	91	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	96	NO	0
PAL1B	66	95	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	97	NO	0
PAL1B	67	88	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	98	NO	0
PAL1B	67	90	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	99	NO	0
PAL1B	67	92	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	100	NO	0
PAL1B	69	96	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	101	NO	0
PAL1B	72	79	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	102	NO	0
PAL1B	72	133	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	103	NO	0
PAL1B	73	80	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	104	NO	0
PAL1B	73	94	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	105	NO	0
PAL1B	73	122	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	106	NO	0
PAL1B	73	124	CSVx2, PSVx2	N/A	Installed Hot Leg Sleeves	107	NO	0
PAL1B	74	69	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	108	NO	0
PAL1B	74	93	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	109	NO	0
PAL1B	75	30	CSVx2, PSVx2	N/A	Installed Hot Leg Sleeves	110	NO	0
PAL1B	75	32	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	111	NO	0
PAL1B	75	58	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	112	NO	0
PAL1B	75	82	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	113	NO	0
PAL1B	75	84	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	114	NO	0
PAL1B	75	86	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	115	NO	0
PAL1B	75	88	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	116	NO	0
PAL1B	75	90	CSVx2, PSVx2	N/A	Installed Hot Leg Sleeves	117	NO	0
PAL1B	75	118	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	118	NO	0
PAL1B	76	79	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	119	NO	0
PAL1B	78	99	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	120	NO	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B
REMAIN IN-SERVICE WITH SLEEVE LIST - FINAL (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for RTS	Tube Qty.	Stab	Rev.
PAL1B	79	94	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	121	NO	0
PAL1B	79	106	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	122	NO	0
PAL1B	79	112	CSVx2, PSVx2	N/A	Installed Hot Leg Sleeves	123	NO	0
PAL1B	80	21	CSVx1, PSVx1	N/A	Installed Hot Leg Sleeves	124	NO	0
PAL1B	80	67	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	125	NO	0
PAL1B	80	83	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	126	NO	0
PAL1B	80	87	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	127	NO	0
PAL1B	80	89	CSVx4, PSVx1	N/A	Installed Hot Leg Sleeves	128	NO	0
PAL1B	80	101	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	129	NO	0
PAL1B	80	103	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	130	NO	0
PAL1B	80	127	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	131	NO	0
PAL1B	81	74	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	132	NO	0
PAL1B	85	32	CSVx1, PSVx0	N/A	Installed Hot Leg Sleeves	133	NO	0
PAL1B	85	82	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	134	NO	0
PAL1B	85	94	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	135	NO	0
PAL1B	85	98	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	136	NO	0
PAL1B	87	98	CSVx1, PSVx2	N/A	Installed Hot Leg Sleeves	137	NO	0
PAL1B	88	81	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	138	NO	0
PAL1B	88	93	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	139	NO	0
PAL1B	89	62	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	140	NO	0
PAL1B	89	66	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	141	NO	0
PAL1B	89	76	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	142	NO	0
PAL1B	89	90	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	143	NO	0
PAL1B	89	92	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	144	NO	0
PAL1B	89	94	CSVx1, PSVx2	N/A	Installed Hot Leg Sleeves	145	NO	0
PAL1B	89	98	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	146	NO	0
PAL1B	89	100	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	147	NO	0
PAL1B	89	102	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	148	NO	0
PAL1B	89	104	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	149	NO	0
PAL1B	89	106	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	150	NO	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B
REMAIN IN-SERVICE WITH SLEEVE LIST - FINAL (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for RTS	Tube Qty.	Stab	Rev.
PAL1B	89	110	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	151	NO	0
PAL1B	90	53	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	152	NO	0
PAL1B	90	65	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	153	NO	0
PAL1B	90	77	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	154	NO	0
PAL1B	90	83	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	155	NO	0
PAL1B	90	97	CSVx2, PSVx3	N/A	Installed Hot Leg Sleeves	156	NO	0
PAL1B	90	99	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	157	NO	0
PAL1B	90	103	CSVx1, PSVx2	N/A	Installed Hot Leg Sleeves	158	NO	0
PAL1B	90	119	CSVx1, PSVx2	N/A	Installed Hot Leg Sleeves	159	NO	0
PAL1B	91	68	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	160	NO	0
PAL1B	91	88	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	161	NO	0
PAL1B	91	94	CSVx2, PSVx2	N/A	Installed Hot Leg Sleeves	162	NO	0
PAL1B	94	73	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	163	NO	0
PAL1B	94	105	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	164	NO	0
PAL1B	95	104	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	165	NO	0
PAL1B	95	142	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	166	NO	0
PAL1B	97	94	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	167	NO	0
PAL1B	98	61	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	168	NO	0
PAL1B	98	95	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	169	NO	0
PAL1B	99	94	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	170	NO	0
PAL1B	100	89	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	171	NO	0
PAL1B	104	93	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	172	NO	0
PAL1B	104	99	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	173	NO	0
PAL1B	106	113	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	174	NO	0
PAL1B	108	109	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	175	NO	0
PAL1B	109	100	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	176	NO	0
PAL1B	109	106	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	177	NO	0
PAL1B	110	91	CSVx1, PSVx3	N/A	Installed Hot Leg Sleeves	178	NO	0
PAL1B	113	104	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	179	NO	0
PAL1B	113	106	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	180	NO	0

Palisades Steam Generator Operational Assessment for Cycle 29



Palisades Unit 1 - 1D28 - S/G 1B

REMAIN IN-SERVICE WITH SLEEVE LIST - FINAL (Rev. 0)

S/G	Row	Col	Hot Leg	Cold Leg	Reason for RTS	Tube Qty.	Stab	Rev.
PAL1B	118	75	CSVx1, PSVx4	N/A	Installed Hot Leg Sleeves	181	NO	0
Totals:						181	0	

Notes (Rev. 0):

1. All tubes on the above list are identified for "Remaining-in-Service (RIS) with sleeves" and have had sleeves installed at all repairable indications at hot leg eggcrate supports.

2. All tubes on the above list are from tubes in-service prior to the 1D28 inspection, were inspected with ECT as specified per the Degradation Assessment (51-9378492-000), and were screened using the sleeving strategy implemented at 1D28.

3. The sleeving strategy implemented at 1D28 uses "corrective" sleeves (CSV) and "preventative" sleeves (PSV) per 51-938851-001 based on whether a repairable flaw (i.e., volumetric indications $\geq 40\%$ TW or crack-like indications) is identified with ECT at the support location. All tubes on the above list have at a minimum one corrective sleeve (CSV) installed and up to four preventative sleeves (PSV) installed.

The criteria for a "corrective" sleeve based on review of the ECT data is as follows:

a. The repairable flaw must be located within the center 3" of the sleeve assuming 0.75" uncertainty on either end of the sleeve for the 14.5" sleeve; therefore, the flaw extents must be within ± 1.5 " of the center of the support.

b. The repairable flaw must be located at hot leg eggcrate support 01H/02H/03H/04H for tubes in Rows 1-17 or 01H/02H/03H/04H/05H for tubes in Rows 18-138.

The criteria for a "preventative" sleeve based on review of the ECT data is as follows:

a. There are no repairable flaws at the hot leg eggcrate support for this support elevation

b. There are repairable flaws at a hot leg eggcrate support below this support elevation

4. The indications queried for in FDMS to generate this list are consistent with those specified in the Analysis Guidelines for Tech Spec required to be plugged (TBP) and include: $\geq 40\%$, MAI, MCI, MMI, MVI, SAI, SCI, SVI. All tubes on this list with indications that meet this TBP criteria have a corrective sleeve installed at that location.

5. All tubes on the above list have been screened to include as preventative tube plugging (PTP) criteria any tube with foreign object wear that has a foreign object or potential loose part (PLP) indication. None of the tubes on the above list met this PTP criteria.

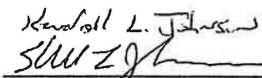
Approvals:

Craig Kelley 8/8/25 10:57AM


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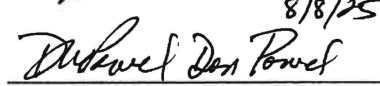
 William C. Worries
8/8/25 12:07

Framatome Data Management

 Kenneth L. Johnson 11:19 AM
8/8/2025
Framatome Lead Analyst

 Bobby Griffin 11:26 AM
 Bobby Griffin 8/8/2025
Utility Representative

 8/8/2025
Ambar Rodriguez

 8/8/25
Dan Powell