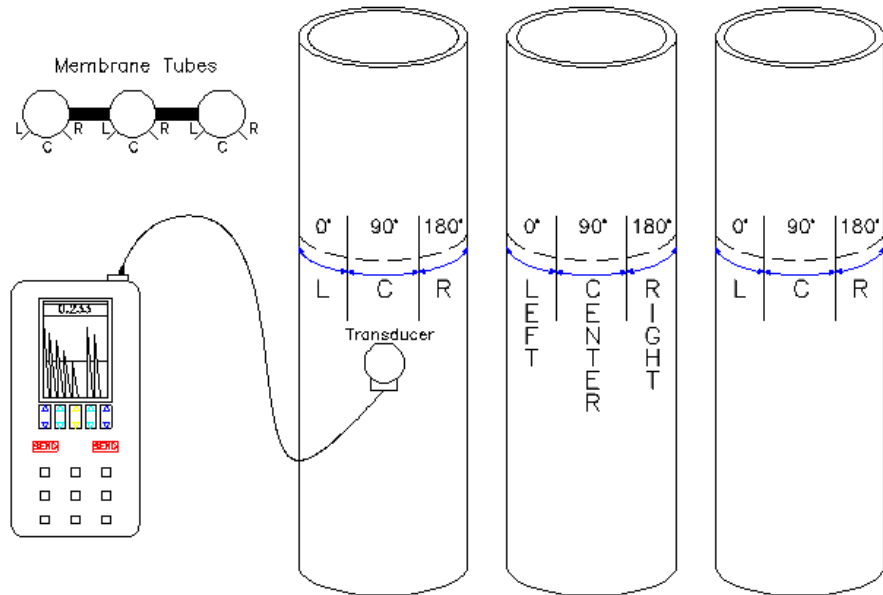


**Boiler Tube
Thickness Inspection
Sample Report**

Nova Data Testing Services has strict procedures to ensure that 100% of the horizontal surface of the tube is scanned during our inspection. This reduces the risk of overlooking low thickness. The figure to the right, shows our procedure requirements for scanning three points. The lowest readings are captured into data-loggers and then downloaded directly into a computer for analysis. This data can then be trended for wear forecasting to maximize maintenance schedules.

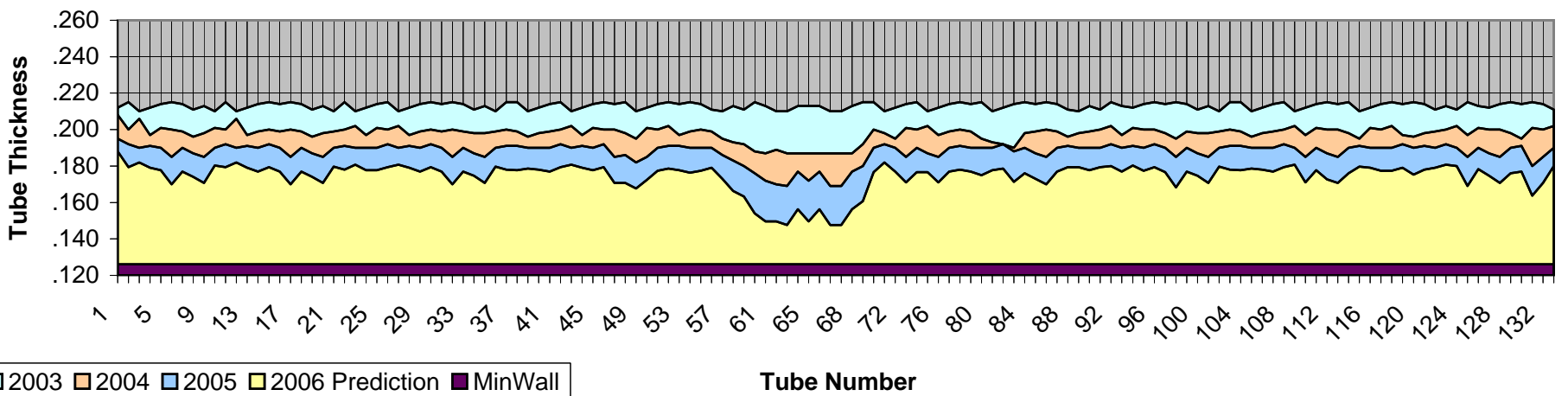


The picture to the left, shows replacement boiler tubes being fit up for welding. Nova Data Testing Services offers radiographic and shearwave weld inspections. These inspections can either give permanent records of weld quality for future verification, or reduce the amount of downtime costs involved with the inspection.

Tube Thickness Forecasting for 2006
 Tubes Numbered from Left to Right,
 Facing the inside of the wall

Tube #	2003	2004	2005	2006 Prediction
1	.212	.208	.195	.188
2	.215	.200	.192	.179
3	.210	.206	.190	.182
4	.212	.197	.191	.179
5	.214	.201	.190	.178
6	.215	.200	.185	.170
7	.214	.199	.190	.177
8	.211	.196	.187	.174
9	.213	.198	.185	.171
10	.210	.201	.190	.180
11	.215	.200	.192	.179
12	.210	.206	.190	.182
13	.212	.197	.191	.179
14	.214	.199	.190	.177
15	.215	.200	.192	.179
16	.214	.199	.190	.177
17	.215	.200	.185	.170
18	.214	.199	.190	.177
19	.211	.196	.187	.174
20	.213	.198	.185	.171
21	.210	.199	.190	.180
22	.215	.200	.191	.178
23	.210	.202	.190	.181
24	.212	.197	.190	.178
25	.214	.201	.190	.178
26	.215	.200	.192	.179
27	.210	.202	.190	.181
28	.212	.197	.191	.179
29	.214	.199	.190	.177
30	.215	.200	.192	.179
31	.214	.199	.190	.177
32	.215	.200	.185	.170
33	.214	.199	.190	.177
34	.211	.198	.187	.175
35	.213	.198	.185	.171
36	.210	.199	.190	.180
37	.215	.200	.191	.178
38	.215	.199	.191	.178
39	.210	.196	.190	.179
40	.212	.198	.190	.178
41	.214	.199	.190	.177
42	.215	.200	.192	.179
43	.210	.202	.190	.181
44	.212	.197	.191	.179
45	.214	.201	.190	.178
46	.215	.200	.192	.179
47	.214	.200	.185	.171
48	.215	.198	.186	.171
49	.210	.195	.182	.168
50	.212	.201	.185	.172
51	.214	.200	.190	.177
52	.215	.202	.191	.179
53	.214	.197	.191	.178
54	.215	.199	.190	.176
55	.214	.200	.190	.177
56	.211	.199	.190	.179
57	.210	.195	.186	.173
58	.213	.193	.183	.166
59	.211	.192	.180	.163
60	.215	.188	.176	.154
61	.213	.187	.172	.150
62	.210	.189	.170	.150
63	.210	.187	.169	.148
64	.213	.187	.177	.156
65	.213	.187	.172	.150
66	.213	.187	.177	.156
67	.210	.187	.169	.148

Tube #	2003	2004	2005	2006 Prediction
68	.210	.187	.169	.148
69	.213	.187	.177	.156
70	.215	.192	.180	.161
71	.215	.200	.190	.177
72	.210	.198	.192	.182
73	.212	.195	.190	.177
74	.214	.201	.185	.171
75	.215	.200	.190	.177
76	.210	.202	.187	.177
77	.212	.197	.185	.171
78	.214	.199	.190	.177
79	.215	.200	.191	.178
80	.214	.199	.190	.177
81	.215	.195	.190	.175
82	.210	.193	.190	.178
83	.212	.192	.192	.179
84	.214	.190	.188	.171
85	.215	.198	.190	.176
86	.214	.199	.187	.173
87	.215	.200	.185	.170
88	.214	.199	.190	.177
89	.211	.196	.191	.179
90	.210	.198	.190	.179
91	.213	.199	.190	.178
92	.211	.200	.190	.179
93	.215	.202	.192	.180
94	.213	.197	.190	.177
95	.212	.201	.191	.180
96	.214	.200	.190	.177
97	.215	.200	.192	.179
98	.214	.198	.190	.177
99	.215	.195	.185	.168
100	.214	.199	.190	.177
101	.211	.198	.187	.175
102	.213	.198	.185	.171
103	.210	.199	.190	.180
104	.215	.200	.191	.178
105	.215	.199	.191	.178
106	.210	.196	.190	.179
107	.212	.198	.190	.178
108	.214	.199	.190	.177
109	.215	.200	.192	.179
110	.210	.202	.190	.181
111	.212	.197	.185	.171
112	.214	.201	.190	.178
113	.215	.200	.187	.173
114	.214	.200	.185	.171
115	.215	.198	.190	.176
116	.210	.195	.191	.180
117	.212	.201	.190	.179
118	.214	.200	.190	.177
119	.215	.202	.190	.177
120	.214	.197	.192	.179
121	.215	.196	.190	.175
122	.214	.198	.191	.178
123	.211	.199	.190	.179
124	.213	.200	.192	.181
125	.211	.202	.190	.180
126	.215	.197	.185	.169
127	.213	.201	.190	.178
128	.212	.200	.187	.175
129	.214	.200	.185	.171
130	.215	.198	.190	.176
131	.214	.195	.191	.177
132	.215	.201	.180	.164
133	.214	.200	.185	.171
134	.211	.202	.190	.180



Tube Number	C Primary Airports			B/CL Primary Airports			A Primary Airports			-18"	C Secondary Airports			CL/B Secondary Airports/0'			A Secondary Airports			+2"	+8"	+55'	+96'	+119'	+129'
	L	C	R	L	C	R	L	C	R		L	C	R	L	C	R	L	C	R						
1	.243	.237	.246	.262	.255	.268	.259	.259	.280	.262	.258	.264	.264	.264	.264	.264	.264	.264	.264	.264	.264	.264	.264	.264	.264
2	.251	.287	.237	.281	.260	.257	.296	.264	.262	.267	.256	.268	.268	.268	.268	.268	.268	.268	.268	.268	.268	.268	.268	.268	.268
3	.255	.264	.253	.259	.260	.261	.264	.263	.253	.264	.257	.266	.266	.266	.266	.266	.266	.266	.266	.266	.266	.266	.266	.266	.266
4	.261	.287	.246	.256	.260	.266	.270	.266	.256	.266	.266	.266	.266	.266	.266	.266	.266	.266	.266	.266	.266	.266	.266	.266	.266
5	.267	.274	.234	.252	.269	.264	.265	.255	.287	.256	.268	.268	.268	.268	.268	.268	.268	.268	.268	.268	.268	.268	.268	.268	.268
6	.239	.249	.217	.246	.261	.269	.269	.247	.255	.264	.257	.269	.269	.269	.269	.269	.269	.269	.269	.269	.269	.269	.269	.269	.269
7	.250	.232	.236	.253	.264	.275	.266	.274	.262	.270	.265	.266	.266	.266	.266	.266	.266	.266	.266	.266	.266	.266	.266	.266	.266
8	.222	.229	.219	.266	.248	.273	.264	.257	.261	.267	.264	.264	.264	.264	.264	.264	.264	.264	.264	.264	.264	.264	.264	.264	.264
9	.222	.217	.195	.262	.248	.259	.254	.252	.243	.265	.257	.262	.262	.262	.262	.262	.262	.262	.262	.262	.262	.262	.262	.262	.262
10	.251	.216	.220	.268	.257	.272	.263	.262	.253	.263	.262	.263	.263	.263	.263	.263	.263	.263	.263	.263	.263	.263	.263	.263	.263
11	.231	.219	.263	.245	.263	.264	.250	.295	.252	.264	.250	.263	.263	.263	.263	.263	.263	.263	.263	.263	.263	.263	.263	.263	.263
12	.263	.269	.251	.272	.260	.256	.262	.244	.257	.262	.256	.262	.262	.262	.262	.262	.262	.262	.262	.262	.262	.262	.262	.262	.262
13	.229	.267	.257	.259	.264	.263	.264	.259	.257	.264	.263	.264	.263	.264	.263	.264	.263	.264	.263	.264	.263	.264	.263	.264	.263
14	.186	.174	.235	.265	.247	.282	.256	.252	.256	.263	.262	.256	.262	.262	.262	.262	.262	.262	.262	.262	.262	.262	.262	.262	.262
15	.230	.149	.238	.266	.247	.257	.254	.264	.244	.261	.261	.261	.261	.261	.261	.261	.261	.261	.261	.261	.261	.261	.261	.261	.261
16	.269	.167	.237	.298	.250	.260	.263	.256	.253	.260	.263	.263	.263	.263	.263	.263	.263	.263	.263	.263	.263	.263	.263	.263	.263
17	.201	.241	.237	.249	.259	.257	.263	.242	.248	.242	.248	.242	.248	.242	.248	.242	.248	.242	.248	.242	.248	.242	.248	.242	.248
18	.238	.272	.271	.270	.234	.276	.247	.269	.247	.262	.256	.244	.257	.262	.256	.244	.257	.262	.256	.244	.257	.262	.256	.244	.257
19	.210	.269	.227	.253	.262	.262	.268	.296	.251	.261	.261	.261	.261	.261	.261	.261	.261	.261	.261	.261	.261	.261	.261	.261	.261
20	.179	.230	.252	.264	.254	.262	.290	.245	.241	.261	.260	.269	.269	.269	.269	.269	.269	.269	.269	.269	.269	.269	.269	.269	.269
21	.185	.198	.237	.264	.281	.257	.260	.247	.246	.260	.263	.285	.285	.285	.285	.285	.285	.285	.285	.285	.285	.285	.285	.285	.285
22	.176	.196	.234	.283	.264	.284	.270	.249	.275	.270	.268	.258	.258	.258	.258	.258	.258	.258	.258	.258	.258	.258	.258	.258	.258
23	.199	.188	.242	.254	.252	.263	.272	.249	.240	.265	.267	.249	.249	.249	.249	.249	.249	.249	.249	.249	.249	.249	.249	.249	.249
24	.224	.211	.235	.265	.260	.258	.260	.256	.249	.260	.260	.256	.249	.260	.260	.256	.249	.260	.260	.256	.249	.260	.260	.256	.249
25	.178	.217	.251	.287	.257	.255	.288	.259	.255	.260	.260	.261	.261	.261	.261	.261	.261	.261	.261	.261	.261	.261	.261	.261	.261
26	.225	.282	.238	.252	.257	.255	.277	.245	.280	.266	.266	.266	.266	.266	.266	.266	.266	.266	.266	.266	.266	.266	.266	.266	.266
27	.226	.260	.249	.293	.281	.284	.255	.241	.296	.263	.262	.258	.257	.257	.257	.257	.257	.257	.257	.257	.257	.257	.257	.257	.257
28	.262	.265	.256	.258	.265	.295	.272	.251	.298	.256	.260	.266	.266	.266	.266	.266	.266	.266	.266	.266	.266	.266	.266	.266	.266
29	.246	.246	.254	.289	.255	.267	.266	.263	.263	.255	.259	.255	.255	.255	.255	.255	.255	.255	.255	.255	.255	.255	.255	.255	.255
30	.255	.237	.272	.260	.260	.287	.258	.249	.288	.256	.262	.255	.255	.255	.255	.255	.255	.255	.255	.255	.255	.255	.255	.255	.255
31	.279	.225	.263	.257	.265	.285	.258	.250	.260	.257	.257	.257	.257	.257	.257	.257	.257	.257	.257	.257	.257	.257	.257	.257	.257
32	.229	.235	.230	.265	.266	.270	.257	.241	.266	.257	.255	.253	.253	.253	.253	.253	.253	.253	.253	.253	.253	.253	.253	.253	.253
33	.285	.276	.255	.258	.275	.266	.269	.249	.236	.258	.258	.258	.258	.258	.258	.258	.258	.258	.258	.258	.258	.258	.258	.258	.258
34	.270	.267	.263	.270	.276	.267	.268	.253	.303	.270	.268	.265	.265	.265	.265	.265	.265	.265	.265	.265	.265	.265	.265	.265	.265
35	.278	.246	.244	.252	.280	.288	.239	.234	.262	.264	.261	.268	.268	.268	.268	.268	.268	.268	.268	.268	.268	.268	.268	.268	.268
36	.214	.232	.258	.264	.255	.254	.271	.262	Obstr	.263	.258	.255	.255	.255	.255	.255	.255	.255	.255	.255	.255	.255	.255	.255	.255
37	.217	.208	.252	.280	.253	.289	.266	.231	Obstr	.263	.263	.263	.263	.263	.263	.263	.263	.263	.263	.263	.263	.263	.263	.263	.263
38	.286	.271	.260	.262	.265	.255	.236	.232	.245	.264	.266	.266	.266	.266	.266	.266	.266	.266	.266	.266	.266	.266	.266	.266	.266
39	.231	.232	.243	.284	.269	.251	.242	.253	.276	.270	.264	.263	.263	.263	.263	.263	.263	.263	.263	.263	.263	.263	.263	.263	.263
40	.226	.245	.260	.256	.258	.254	.267	.235	.270	.260	.263	.265	.265	.265	.265	.265	.265	.265	.265	.265	.265	.265	.265	.265	.265
41	.232	.232	.250	.251	.255	.250	.239	.231	.230	.285	.259	.261	.261	.261	.261	.261	.261	.261	.261	.261	.261	.261	.261	.261	.261
42	.264	.252	.252	.247	.247	.242	.232	.263	.231	.261	.264	.271	.255	.255	.255	.255	.255	.255	.255	.255	.255	.255	.255	.255	.255
43	.264	.257	.257	.249	.242	.266	.254	.247	.287	.269	.265	.262	.262	.262	.262	.262	.262	.262	.262	.262	.262	.262	.262	.262	.262
44	.241	.235	.247	.241	.231	.228	.247	.249	.221	.263	.263	.262	.262	.262	.262	.262	.262	.262	.262	.262	.262	.262	.262	.262	.262
45	.237	.234	.220	.262	.258	.237	.226	.239	.237	.261	.262	.267	.258	.258	.258	.258	.258	.258	.258	.258	.258	.258	.258	.258	.258
46	.253	.241	.255	.272	.253	.254	.253	.229	.233	.272	.263	.268	.261	.261	.261	.261	.261	.261	.261	.261	.261	.261	.261	.261	.261
47	.241	.254	.249	.242	.241	.270	.226	.227	.241	.258	.249	.264	.262	.262	.262	.262	.262	.262	.262	.262	.262	.262	.262	.262	.262
48	.270	.248	.254	.247	.257	.235	.245	.224	.229	.263	.248	.266	.256	.256	.256	.256	.256	.256	.256	.256	.256	.256	.256	.256	.256
49	.255	.285	.266	.253	.266	.255	.265	.238	.250	.269	.263	.266	.261	.261	.261	.261	.261	.261	.261	.261	.261	.261	.261	.261	.261
50	.232	.237	.249	.284	.249	.246	.236	.232	.231	.262	.269	.265	.260	.260	.260	.260	.260	.260	.260	.260	.260	.260	.260	.260	.260
51	.228	.221	.260	.249	.251	.243	.232	.232	.255	.264	.267	.266	.255	.255	.255	.255	.255	.255	.255	.255	.255	.255	.255	.255	.255
52	.216	.261	.259	.263	.260	.255	.250	.263	.216	.267	.264	.256	.255	.255	.255	.255	.255	.255	.255	.255	.255	.255	.255	.255	.255
53	.233	.224	.245	.277	.262	.242	.238	.236	.237	.261	.264	.255	.264	.264	.264	.264	.264	.264	.264	.264	.264	.264	.264	.264	.264
54	.244	.235	.257	.279	.244	.254	.262	.218	.213	.264	.263	.265	.254	.254	.254	.254	.254	.254	.254	.254	.254	.254	.254	.254	.254
55	.219	.233	.247	.255	.240	.233	.214	.243	.214	.267	.258	.259	.260	.260	.260	.260	.260	.260	.260	.260	.260	.260	.260	.260	.260
56	.235	.241	.282	.240	.237	.231	.210	.223	.222	.262	.257	.258	.268	.268	.268	.268	.268	.268	.268	.268	.268	.268	.268	.268	.268
57	.269	.269	.250	.265	.270	.236	.211	.233	.250	.264	.262	.261	.270	.27											

Tube Number	Tube Position	C Primary Airports	B/CL Primary Airports	A Primary Airports	-18"	C Secondary Airports	CL/B Secondary Airports/0'	A Secondary Airports	+2"	+8"	+55'	+96"	+119"	+129"
28	L	.231 Empty	.254	.263	.257	.273	.231	.237	.209	.279	.269	.261	.260	
	C	.243 Empty	.269	.237	.235	.258	.234	.191	.213	.266	.260	.263	.263	
	R	.231 Empty	.242	.251	.247	.251	.264	.207	.231	.261	.262	.266	.266	
29	L	.228 Empty	.260	.258	.296	.246	.324	.249	.214	.262	.263	.259	.260	
	C	.246 Empty	.248	.236	.226	.219	.226	.192	.182	.260	.263	.259	.264	
	R	.259 Empty	.249	.235	.241	.217	.203	.214	.206	.259	.264	.256	.252	
30	L	.259	.278	.249	.257	.226	.241	.255	.229	.217	.259	.264	.265	.251
	C	.239	.247	.235	.249	.225	.221	.250	.207	.183	.252	.253	.266	.262
	R	.259	.238	.231	.243	.232	.198	.246	.213	.195	.252	.259	.264	.260
31	L	.238	.274	.259	.245	.244	.255	.259	.233	.220	.263	.261	.263	.258
	C	.248	.275	.248	.233	.288	.223	.218	.217	.178	.259	.265	.260	.262
	R	.264	.264	.245	.244	.231	.226	.208	.244	.186	.275	.262	.260	.262
32	L	.251	.254	.244	.247	.222	.231	.234	.218	.224	.260	.265	.263	.262
	C	.219	.247	.249	.217	.281	.217	.255	.216	.190	.260	.259	.266	.264
	R	.233	.235	.234	.225	.193	.205	.225	.192	.192	.265	.267	.260	.261
33	L	.233	.232	.251	.264	.375	.234	.224	.241	.196	.258	.257	.264	.255
	C	.222	.233	.228	.224	.196	.214	.211	.221	.208	.257	.258	.252	.268
	R	.226	.240	.240	.222	.223	.191	.217	.202	.180	.259	.259	.251	.263
34	L	.233	.238	.258	.266	.242	.213	.226	.256	.202	.261	.266	.262	.264
	C	.221	.229	.264	.209	.240	.192	.184	.227	.170	.258	.258	.260	.268
	R	.267	.247	.257	.233	.201	.203	.213	.199	.201	.263	.258	.258	.262
35	L	.262	.225	.249	.244	.250	.224	.222	.247	.201	.270	.259	.262	.264
	C	.240	.241	.244	.233	.203	.209	.232	.181	.170	.258	.261	.262	.261
	R	.234	.264	.261	.233	.201	.212	.226	.218	.200	.273	.261	.262	.259
36	L	.247	.267	.266	.238	.257	.209	.188	.203	.190	.279	.263	.264	N/A
	C	.262	.251	.253	.261	.254	.232	.186	.200	.207	.271	.256	.261	N/A
	R	.253	.265	.228	.207	.220	.195	.205	.201	.187	.257	.260	.255	N/A
37	L	.262	.262	.271	.234	.237	.227	.244	.244	.222	.266	.264	.268	N/A
	C	.246	.248	.257	.239	.213	.222	.210	.191	.203	.260	.266	.263	N/A
	R	.241	.260	.270	.217	.234	.207	.241	.198	.221	.258	.261	.264	N/A
38	L	.225	.260	.239	.231	.229	.211	.217	.204	.225	.263	.260	.268	N/A
	C	.268	.247	.249	.246	.211	.202	.210	.198	.183	.256	.262	.262	N/A
	R	.235	.256	.249	.237	.243	.219	.203	.177	.187	.245	.249	.264	N/A
39	L	.232	.288	.268	.248	.273	.229	.253	.197	Obstr	.262	.263	.261	N/A
	C	.228	.260	.259	.249	.235	.211	.211	.286	.187	.257	.256	.259	N/A
	R	.227	.245	.246	.231	.254	.243	.220	.222	.201	.275	.257	.254	N/A
40	L	.229	.242	.300	.288	.244	.226	.232	Empty	.193	.265	.260	.260	N/A
	C	.242	.231	.256	.270	.244	.217	.199	Empty	.190	.254	.259	.262	N/A
	R	.270	.231	.274	.252	.268	.251	.190	Empty	.340	.257	.257	.258	N/A
41	L	.274	.249	.257	.279	.263	.259	.183	Empty	.216	.262	.259	.263	N/A
	C	.247	.246	.248	.244	.226	.240	.214	Empty	Obstr	.267	.261	.260	N/A
	R	.248	.268	.249	.257	.246	.258	.197	Empty	Obstr	.259	.259	.263	N/A
42	L	.250	.306	.258	.264	.239	.267	.241	Empty	.214	.260	.260	.258	N/A
	C	.251	.258	.256	.241	.243	.238	.241	Empty	.261	.260	.261	.251	N/A
	R	.267	.256	.229	.228	.207	.215	.201	Empty	.202	.260	.261	.254	N/A
43	L	.261	.244	.240	.291	.233	.240	.238	Empty	.290	.262	.267	.266	N/A
	C	.246	.239	.244	.258	.216	.219	.229	Empty	.212	.264	.266	.264	N/A
	R	.279	.244	.231	.261	.203	.226	.234	Empty	.193	.267	.264	.260	N/A
44	L	.235	.246	.254	.255	.218	.235	.214	Empty	.266	.264	.266	.265	N/A
	C	.216	.258	.245	.255	.206	.205	.198	Empty	.197	.259	.263	.265	N/A
	R	.231	.252	.258	.234	.222	.213	.204	Empty	.222	.255	.260	.258	N/A
45	L	.236	.265	.264	.276	.226	.220	.249	Empty	Obstr	.257	.258	.259	N/A
	C	.256	.240	.253	.243	.200	.192	.223	Empty	.206	.258	.255	.260	N/A
	R	.262	.236	.242	.205	.201	.246	.211	Empty	.177	.260	.259	.259	N/A
46	L	.269	.285	.257	.250	.213	.252	.209	Empty	.218	.258	.264	.262	N/A
	C	.232	.238	.247	.207	.242	.245	.242	Empty	.183	.264	.264	.260	N/A
	R	.248	.233	.227	.222	.190	.255	.193	Empty	.203	.263	.266	.252	N/A
47	L	.271	.241	.272	.222	.217	.206	.199	Empty	.302	.261	.261	.269	N/A
	C	.249	.254	.236	.210	.192	.173	.215	Empty	.185	.266	.266	.263	N/A
	R	.234	.216	.226	.193	.194	.178	.205	Empty	.191	.262	.258	.264	N/A
48	L	.221	.246	.233	.217	.216	.197	.253	Empty	.185	.265	.261	.259	N/A
	C	.230	.247	.222	.233	.259	.279	.211	Empty	.194	.258	.256	.256	N/A
	R	.226	.284	.210	.234	.173	.184	.165	Empty	.188	.265	.261	.267	N/A
49	L	.224	.267	.231	.228	.204	.184	.149	Empty	Obstr	.265	.263	.261	N/A
	C	.252	.242	.260	.213	.190	.186	.180	Empty	.209	.258	.256	.264	N/A
	R	.260	.253	.234	.211	.198	.182	.211	Empty	.183	.259	.260	.256	N/A
50	L	.274	.264	.253	.222	.236	.229	.213	Empty	Obstr	.262	.257	.260	N/A
	C	.232	.250	.253	.253	.205	.211	.208	Empty	.183	.261	.259	.265	N/A
	R	.230	.258	.285	.218	.212	.219	.171	Empty	.231	.266	.261	.262	N/A
51	L	.232	.273	.253	.248	.213	.237	.234	Empty	.208	.265	.263	.262	N/A
	C	.222	.246	.256	.216	.198	.194	.174	Empty	.215	.267	.262	.258	N/A
	R	.255	.237	.229	.299	.206	.191	.185	Empty	.202	.262	.262	.255	N/A
52	L	.280	.251	.277	.231	.230	.194	.219	Empty	.249	.261	.260	.254	N/A
	C	.264	.244	.231	.227	.189	.182	.179	Empty	.172	.262	.255	.256	N/A
	R	.227	.242	.224	.211	.271	.203	.211	Empty	.174	.263	.258	.260	N/A
53	L	.223	.277	.242	.237	.229	.253	.214	Empty	Obstr	.260	.256	.260	N/A
	C	.236	.248	.241	.237	.232	.205	.205	Empty	.192	.258	.261	.256	N/A
	R	.235	.258	.246	.234	.233	.257	.212	Empty	.250	.262	.261	.265	N/A
54	L	.244	.261	.257	.239	.226	.242	.221	Empty	.220	.260	.260	.256	N/A
	C	.254	.253	.248	.239	.257	.226	.192	Empty	.225	.259	.268	.261	N/A
	R	.257	.265	.241	.235	.224	.223	.233	Empty	.214	.263	.261	.262	N/A

Tubes are numbered from right to left, facing the wall from inside the boiler furnace. All values are in inches.

.175" - .185" = Green
 .166" - .175" = Orange
 .165" and below = Red

Tube Number	Tube Position	C Primary Airports	B/CL Primary Airports	A Primary Airports	-18"	C Secondary Airports	CL/B Secondary Airports/0'	A Secondary Airports	+2'	+8'	+55'	+96'	+119'	+129'
82	L	.260	.274	.267	.286	.231	.237	.233	Empty	Obstr	.264	.259	.268	N/A
	C	.251	.250	.272	.251	.271	.283	.254	Empty	.239	.267	.262	.269	N/A
	R	.269	.245	.273	.256	.262	.248	.227	Empty	Obstr	.272	.260	.257	N/A
83	L	.274	.286	.263	.251	.243	.254	.233	Empty	Obstr	.263	.260	.270	N/A
	C	.285	.273	.242	.251	.269	.264	.249	Empty	.290	.268	.260	.262	N/A
	R	.270	.256	.278	.256	.267	.271	.269	Empty	.250	.263	.268	.260	N/A
84	L	.261	.259	.254	.266	.233	.248	.266	Empty	.244	.262	.261	.267	N/A
	C	.262	.255	.243	.260	.240	.293	.242	Empty	.278	.264	.259	.260	N/A
	R	.258	.253	.224	.273	.291	.222	.226	Empty	.247	.271	.263	.257	N/A
85	L	.263	.255	.251	.292	.222	.231	.239	Empty	.243	.260	.261	.265	N/A
	C	.258	.261	.273	.256	.222	.242	.233	Empty	.255	.264	.264	.262	N/A
	R	.246	.269	.257	.257	.269	.242	.246	Empty	.287	.264	.268	.262	N/A
86	L	.246	.262	.262	.284	.246	.246	.251	Empty	.252	.264	.263	.269	N/A
	C	.283	.297	.272	.256	.285	.285	.246	Empty	Obstr	.263	.269	.266	N/A
	R	.283	.261	.253	.261	.265	.241	.254	Empty	.254	.269	.272	.264	N/A
87	L	.262	.267	.248	.258	.273	.251	.262	Empty	Obstr	.266	.258	.265	N/A
	C	.275	.259	.247	.255	.272	.254	.255	Empty	Obstr	.273	.256	.273	N/A
	R	.267	.261	.255	.288	.259	.281	.263	Empty	Obstr	.279	.266	.266	N/A
88	L	.290	.263	.270	.263	.266	.281	.264	Empty	Obstr	.265	.256	.264	N/A
	C	.288	.263	.241	.260	.265	.251	.245	Empty	.255	.258	.259	.262	N/A
	R	.295	.271	.256	.250	.264	.255	.252	Empty	Obstr	.268	.265	.257	N/A
89	L	.263	.274	.249	.264	.266	.266	.249	Empty	Obstr	.276	.259	.267	N/A
	C	.267	.259	.249	.265	.278	.269	.261	Empty	Obstr	.259	.251	.263	N/A
	R	.288	.267	.259	.283	.272	.264	.253	Empty	Obstr	.262	.268	.255	N/A
90	L	.264	.254	.272	.249	.269	.257	.256	Empty	Obstr	.266	.258	Obstr	N/A
	C	.265	.252	.249	.270	.286	.263	.264	Empty	Obstr	.257	.251	.261	N/A
	R	.290	.292	.264	.266	.273	.260	.268	Empty	Obstr	.269	.263	.270	N/A
91	L	.266	.275	.258	.269	.283	.269	.268	Empty	Obstr	.277	.264	.257	N/A
	C	.274	.274	.253	.262	.259	.259	.260	Empty	Obstr	.273	.255	.269	N/A
	R	.301	.271	.262	.268	.260	.291	.271	Empty	Obstr	.272	.267	.268	N/A

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