U.S. Nuclear Regulatory Commission document:

Generalization of Plant-Specific Pressurized Thermal Shock (PTS) Risk Results to Additional Plants

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Table 1. Plants with highest *RTNDT.*

Tolerance to a PTS Challenge

Plant Name NSSS Vendor

Most Embrittled

Material

RTNDT(u) + Irradiation

Shift at 40 years [° F]

Vessel Manufacturer

The estimated tolerance to a **PTS** challenge increases as the number in the next column increases (i.e., plants with the lowest ranking have the most embrittled materials).

1 Salem 1 Westinghouse Plate 204 Combustion Engineering
2 Beaver Valley 1 Westinghouse Plate 194 Combustion Engineering
3 TMI-1 Babcock & Wilcox Axial Weld 186 Babcock & Wilcox
4 Fort Calhoun Combustion Engineering Axial Weld 181 Combustion Engineering
5 **Palisades** Combustion Engineering Axial Weld 179 Combustion Engineering
6 Calvert Cliffs 1 Combustion Engineering Axial Weld 178 Combustion Engineering
7 Diablo Canyon 1 Westinghouse Axial Weld 171 Combustion Engineering
8 Diablo Canyon 2 Westinghouse Plate 170 Combustion Engineering
9 Sequoyah 1 Westinghouse Forging 167 Rotterdam Dockyard
10 Watts Bar 1 Westinghouse Forging 164 Rotterdam Dockyard
11 St. Lucie 1 Combustion Engineering Axial Weld 164 Combustion Engineering
12 Surry 1 Westinghouse Axial Weld 163 Babcock & Wilcox
13 Indian Point 2 Westinghouse Plate 162 Combustion Engineering
14 Ginna Westinghouse Forging 161 Babcock & Wilcox
15 Point Beach 1 Westinghouse Axial Weld 159 Babcock & Wilcox
16 Farley 2 Westinghouse Plate 158 Combustion Engineering
17 Mcguire 1 Westinghouse Axial Weld 158 Combustion Engineering
18 Oconee 1 Babcock & Wilcox Axial Weld 157 Babcock & Wilcox
19 North Anna 2 Westinghouse Forging 155 Rotterdam Dockyard
20 Shearon Harris Westinghouse Plate 153 Chicago Bridge & Iron
21 North Anna 1 Westinghouse Forging 153 Rotterdam Dockyard
22 Cook 2 Westinghouse Plate 152 Chicago Bridge & Iron
23 Salem 2 Westinghouse Axial Weld 148 Combustion Engineering
24 Crystal River 3 Babcock & Wilcox Axial Weld 141 Babcock & Wilcox
25 Calvert Cliffs 2 Combustion Engineering Plate 139 Combustion Engineering

26 Robinson 2 Westinghouse Plate 138 Combustion Engineering
27 Cook 1 Westinghouse Axial Weld 138 Combustion Engineering
28 Farley 2 Westinghouse Plate 133 Combustion Engineering
29 Farley 1 Westinghouse Plate 133 Combustion Engineering
30 Arkansas Nuclear 1 Babcock & Wilcox Axial Weld 129 Babcock & Wilcox
Notes:
Plants analyzed in the **PTS** re-evaluation effort.
Plants compared in the Generalization activity.