

Reactor Performance 4th Quarter 2000 to 4th Quarter 2023

The NRC adopted its Reactor Oversight Process (ROP) in 2000. Each operating reactor is evaluated every quarter using findings by NRC inspectors and nearly two dozen performance indicators submitted by plant owners. When performance meets regulatory standards, a reactor is placed into Column 1 of the ROP's Action Matrix. As performance drops farther and farther below the regulatory standards, reactor move into Columns 2, 3, 4 and ultimately 5.

1 Licensee Response	2 Regulatory Response	3 Degraded Performance	4 Multiple/Repetitive Degraded Cornerstone	5 Unacceptable Performance
Baseline Inspection	Response at Regional Level	Response at Regional Level	Response at Agency Level	Response at Agency Level

Reactors in Column 1 receive baseline oversight effort by the NRC. Sub-par performers in Columns 2 and 3 receive additional oversight scrutiny from the appropriate NRC regional office. Poor performers in Columns 4 and 5 receive heightened attention from the agency (i.e., headquarters).

The average Action Matrix column placement for each operating reactor between the 4th quarter of 2000 and the 4th quarter of 2023 is shown in the following table. The listings are sorted from the best performers (LaSalle County Unit 1 and Alvin W. Vogtle Unit 3) to the worst performer (Fort Calhoun). The Relative Performance column shows the ratio of each reactor's average column placement to the overall average of all operating reactors (which was 1.22). The Rank column indicates where individual reactors stack up against the performance of their peers.

Reactors that have permanently shut down (e.g., San Onofre Units 2 and 3) are included. The quarters after their shutdowns are not factored into their individual or the overall averages.

Reactors that began operating after the 4th quarter of 2000 (e.g, Watts Bar Unit 2 and Alvin W. Vogtle Unit 3) are included. The quarters before their startup are not factored into their individual or overall averages.

Reactor	Average Column	Relative Performance	Rank
Alvin W. Vogtle Unit 3	1.00	0.82	1
LaSalle County Unit 1	1.00	0.82	2
Catawba Unit 1	1.01	0.83	3
South Texas Project Unit 1	1.02	0.83	4
St. Lucie Unit 2	1.02	0.83	5
Catawba Unit 2	1.03	0.84	6
North Anna Unit 1	1.03	0.84	7
Diablo Canyon Unit 1	1.04	0.85	8
Bryon Unit 1	1.05	0.86	9
Comanche Peak Unit 2	1.05	0.86	10
Edwin I. Hatch Unit 1	1.05	0.86	11
McGuire Unit 1	1.05	0.86	12
McGuire Unit 2	1.05	0.86	13
Millstone Unit 3	1.05	0.86	14
San Onofre Unit 3	1.06	0.86	15
Braidwood Unit 2	1.06	0.87	16
LaSalle County Unit 2	1.06	0.87	17
Limerick Unit 1	1.06	0.87	18
Quad Cities Unit 2	1.06	0.87	19
North Anna Unit 2	1.08	0.88	20
South Texas Project Unit 2	1.08	0.88	21
HB Robinson	1.09	0.89	22
Nine Mile Point Unit 2	1.09	0.89	23
Diablo Canyon Unit 2	1.10	0.90	24
Quad Cities Unit 1	1.10	0.90	25
Three Mile Island Unit 1	1.10	0.90	26
Comanche Peak Unit 1	1.11	0.90	27
Dresden Unit 2	1.11	0.90	28
Limerick Unit 2	1.11	0.90	29
Salem Unit 2	1.11	0.90	30
Hope Creek	1.12	0.91	31
Peach Bottom Unit 3	1.12	0.91	32
Seabrook	1.12	0.91	33
Turkey Point Unit 4	1.12	0.91	34
Watts Bar Unit 1	1.12	0.91	35
Indian Point Unit 3	1.13	0.92	36
V. C. Summer	1.13	0.92	37
Duane Arnold	1.14	0.93	38
Beaver Valley Unit 1	1.14	0.93	39
Beaver Valley Unit 2	1.14	0.93	40
DC Cook Unit 1	1.14	0.93	41
Sequoyah Unit 2	1.14	0.93	42
Nine Mile Point Unit 1	1.15	0.94	43

Reactor	Average Column	Relative Performance	Rank
St. Lucie Unit 1	1.15	0.94	44
Crystal River 3	1.16	0.94	45
Calvert Cliffs Unit 2	1.16	0.95	46
Dresden Unit 3	1.16	0.95	47
Edwin I. Hatch Unit 2	1.16	0.95	48
Monticello	1.16	0.95	49
Alvin W. Vogtle Unit 1	1.17	0.96	50
Alvin W. Vogtle Unit 2	1.17	0.96	51
Bryon Unit 2	1.17	0.96	52
James A. FitzPatrick	1.17	0.96	53
Braidwood Unit 1	1.18	0.97	54
Clinton	1.18	0.97	55
River Bend	1.18	0.97	56
Salem Unit 1	1.18	0.97	57
Susquehanna Unit 2	1.18	0.97	58
Waterford	1.18	0.97	59
Millstone Unit 2	1.19	0.97	60
Sequoyah Unit 1	1.19	0.97	61
Shearon Harris	1.19	0.97	62
Surry Unit 1	1.19	0.97	63
Wolf Creek	1.19	0.97	64
Browns Ferry Unit 3	1.22	0.99	65
Brunswick Unit 2	1.22	0.99	66
Prairie Island Unit 1	1.22	0.99	67
Surry Unit 2	1.22	0.99	68
Vermont Yankee	1.22	1.00	69
Average	1.22	1.00	n/a
Brunswick Unit 1	1.23	1.00	70
Fermi Unit 2	1.23	1.00	71
Peach Bottom Unit 2	1.23	1.00	72
Susquehanna Unit 1	1.23	1.00	73
Turkey Point Unit 3	1.23	1.00	74
Oconee Unit 2	1.24	1.01	75
R. E. Ginna	1.24	1.01	76
Watts Bar Unit 2	1.24	1.01	77
DC Cook Unit 2	1.25	1.02	78
Joseph M. Farley Unit 2	1.25	1.02	79
Prairie Island Unit 2	1.26	1.03	80
Palisades	1.28	1.04	81
Browns Ferry Unit 2	1.28	1.04	82
Grand Gulf	1.28	1.04	83
Callaway	1.29	1.05	84
Joseph M. Farley Unit 1	1.29	1.05	85

Reactor	Average Column	Relative Performance	Rank
Oconee Unit 3	1.29	1.05	86
San Onofre Unit 2	1.30	1.06	87
Calvert Cliffs Unit 1	1.30	1.06	88
Columbia Generating Station	1.30	1.06	89
Oyster Creek	1.30	1.06	90
Palo Verde Unit 1	1.39	1.13	91
Palo Verde Unit 2	1.39	1.13	92
Indian Point Unit 2	1.41	1.15	93
Oconee Unit 1	1.43	1.17	94
Arkansas Nuclear One Unit 2	1.49	1.22	95
Palo Verde Unit 3	1.51	1.23	96
Arkansas Nuclear One Unit 1	1.56	1.27	97
Cooper	1.57	1.28	98
Browns Ferry Unit 1	1.60	1.31	99
Point Beach Unit 2	1.68	1.37	100
Pilgrim	1.69	1.38	101
Perry	1.72	1.40	102
Davis-Besse	1.76	1.44	103
Point Beach Unit 1	1.76	1.44	104
Kewaunee	1.76	1.44	105
Fort Calhoun	2.28	1.86	106