

## U.S. Nuclear Power Reactor Damaged Spent Fuel Assemblies (June 2013)

#	Fuel Locations	State	Reactors	Site Operator	State	Total
827	<b>Fitzpatrick</b>	<b>NY</b>	<b>Fitzpatrick</b>	<b>Entergy Nuclear Generating Company</b>	NY	1399
524	<b>Dresden 2,3 &amp; ISFSI</b>	<b>IL</b>	<b>Dresden 1, 2, 3</b>	<b>Exelon Generation Company, LLC</b>	IL	1073
417	<b>Quad Cities 1/2</b>	<b>IL</b>	<b>Quad Cities 1, 2</b>	<b>Exelon Generation Company, LLC</b>	PA	356
293	Browns Ferry 1/2, 3	AL	Browns Ferry 1, 2, 3	Tennessee Valley Authority	AL	346
248	<b>Nine Mile Point 1, 2</b>	<b>NY</b>	<b>Nine Mile Point 1, 2</b>	<b>Constellation Energy</b>	CA	261
244	<b>Indian Point 2, 3 &amp; ISFSI</b>	<b>NY</b>	<b>Indian Point 1, 2, 3</b>	<b>Entergy Nuclear Generating Company</b>	GA	211
183	Calvert Cliffs 1/2	MD	Calvert Cliffs 1, 2	Constellation Energy	MD	183
157	Vermont Yankee	VT	Vermont Yankee	Entergy Nuclear Northeast	FL	180
154	<b>Peach Bottom 2, 3</b>	<b>PA</b>	<b>Peach Bottom 2, 3</b>	<b>Exelon Generation Company, LLC</b>	VT	157
153	Oyster Creek 1 & ISFSI	NJ	Oyster Creek	AmerGen Energy Company, LLC	NJ	153
143	St. Lucie 1, 2 & ISFSI	FL	St Lucie 1, 2	Florida Power & Light Co.	MI	147
133	Maine Yankee (ISFSI)	ME	Maine Yankee	Maine Yankee Atomic Power Company	ME	133
125	<b>San Onofre 2, 3 &amp; ISFSI</b>	<b>CA</b>	<b>San Onofre 1, 2, 3</b>	<b>Southern California Edison Co.</b>	WI	100
120	Hatch 1/2	GA	Hatch 1, 2	Southern Nuclear Operating Company	DE	98
114	<b>Three Mile Island 1</b>	<b>PA</b>	<b>Three Mile Island 1</b>	<b>AmerGen Energy Company, LLC</b>	TN	69
100	Point Beach 1/2 & ISFSI	WI	Point Beach 1, 2	NextEra Energy, INC.	CT	66
99	<b>Humboldt Bay ISFSI</b>	<b>CA</b>	<b>Humboldt Bay</b>	<b>Pacific Gas and Electric Company</b>	MN	52
97	Cook 1/2	MI	Cook 1, 2	American Electric Power	OH	46
95	<b>Zion 1 &amp; 2</b>	<b>IL</b>	<b>Zion 2, 3</b>	<b>Exelon Generation Company, LLC</b>	TX	42
91	Vogtle 1	GA	Vogtle 1, 2	Southern Nuclear Operating Company	LA	40
88	Salem 1, 2	DE	Salem 1, 2	Public Service Electric and Gas Co.	MO	26
80	<b>Ginna</b>	<b>NY</b>	<b>Ginna</b>	<b>Constellation Energy</b>	OR	16
76	<b>Limerick 1/2</b>	<b>PA</b>	<b>Limerick 1, 2</b>	<b>Exelon Generation Company, LLC</b>	IA	9
62	Haddam Neck ISFSI	CT	Haddam Neck	Connecticut Yankee Atomic Power Company	MS	8
61	Sequoyah 1	TN	Sequoyah 1	Tennessee Valley Authority	MA	7
53	Farley 1/2	AL	Farley 1, 2	Southern Nuclear Operating Company	NH	5
50	Big Rock Point ISFSI	MI	Big Rock Point	Consumers Energy Company	VA	5
45	Monticello	MN	Monticello	Xcel Energy	WA	5
39	River Bend 1	LA	River Bend 1	Entergy Operations Inc.	KS	4
37	Turkey Point 3, 4 & ISFSI	FL	Turkey Point 3, 4	Florida Power & Light Co.	NE	4
26	Callaway	MO	Callaway	Ameren UE	AR	3
24	<b>Aerotest</b>	<b>CA</b>	<b>Aerotest</b>	<b>Aerotest</b>	SC	3
22	Davis-Besse	OH	Davis-Besse	FirstEnergy Nuclear Operating Company	AZ	1
22	South Texas 1, 2	TX	South Texas 1, 2	STP Nuclear Operating Company	<b>Total</b>	<b>5208</b>
21	<b>LaSalle County 1</b>	<b>IL</b>	<b>La Salle County 1, 2</b>	<b>Exelon Generation Company, LLC</b>		
20	Comanche Peak 1/2	TX	Comanche Peak 1, 2	Texas Utilities Electric Company		
17	Perry 1	OH	Perry 1	FirstEnergy Nuclear Operating Company		
16	Trojan ISFSI	OR	Trojan	Portland General Electric		
13	<b>Diablo Canyon 1, 2</b>	<b>CA</b>	<b>Diablo Canyon 1, 2</b>	<b>Pacific Gas and Electric Company</b>		
12	<b>Beaver Valley 1,2</b>	<b>PA</b>	<b>Beaver Valley 1,2</b>	<b>FirstEnergy Nuclear Operating Company</b>		
12	<b>Braidwood</b>	<b>IL</b>	<b>Braidwood 1</b>	<b>Exelon Generation Company, LLC</b>		
10	Hope Creek	DE	Hope Creek	Public Service Electric and Gas Co.		
9	Duane Arnold	IA	Duane Arnold	NextEra Energy, INC.		
8	Grand Gulf 1 & ISFSI	MS	Grand Gulf 1	Entergy Operations, Inc		
8	Watts Bar 1	TN	Watts Bar 1	Tennessee Valley Authority		
7	Enrico Fermi 2	OH	Enrico Fermi 2	Detroit Edison Company		
7	Prairie Island 1/2	MN	Prairie Island 1, 2	Northern States Power Company		
7	Yankee Rowe ISFSI	MA	Yankee Rowe	Yankee Atomic Electric Company		
5	Columbia	WA	Columbia	Energy Northwest		
5	North Anna 1	VA	North Anna 1, 2	Dominion Virginia Power		
5	Seabrook	NH	Seabrook	NextEra Energy, INC.		
4	<b>Byron 1/2</b>	<b>IL</b>	<b>Byron 1, 2</b>	<b>Exelon Generation Company, LLC</b>		
4	Cooper Station	NE	Cooper Station	Nebraska Public Power District		
4	Millstone 1, 2	CT	Millstone 1, 2	Dominion Nuclear Connecticut		
4	Wolf Creek 1	KS	Wolf Creek 1	Wolf Creek Nuclear Operating Corporation		
3	Arkansas Nuclear One 1	AR	Arkansas Nuclear One 1	Entergy Operations, Inc.		
2	Oconee 1, 3	SC	Oconee 1, 3	Duke Power Company		
1	Palo Verde 2	AZ	Palo Verde 2	Arizona Public Service Company		
1	Summer	SC	Summer	South Carolina Electric and Gas Company		
1	Waterford 3	LA	Waterford 3	Entergy Operations, Inc.		
<b>5208</b>	<b>Total damaged (failed) nuclear spent fuel assemblies as of 6/30/2013*</b>					

\*Number of U.S. failed nuclear spent fuel assemblies (e.g., cladding damage) stored in spent fuel pools or dry storage (ISFSI).

Excludes spent fuel at DOE facilities. U.S. Energy Information Administration, EIA Form GC-859, 2013 Nuclear Fuel Data Survey.

SanOnofreSafety.org

## U.S. Nuclear Power Reactor Damaged Spent Fuel Assemblies (June 2013)

State	Total	#	Fuel Locations	Reactors	Site Operator
AL	346	293	Browns Ferry 1/2, 3	Browns Ferry 1, 2, 3	Tennessee Valley Authority
		53	Farley 1/2	Farley 1, 2	Southern Nuclear Operating Company
AR	3	3	Arkansas Nuclear One 1	Arkansas Nuclear One 1	Entergy Operations, Inc.
AZ	1	1	Palo Verde 2	Palo Verde 2	Arizona Public Service Company
CA	261	24	Aerotest	Aerotest	Aerotest
		13	Diablo Canyon 1, 2	Diablo Canyon 1, 2	Pacific Gas and Electric Company
		99	Humboldt Bay ISFSI	Humboldt Bay	Pacific Gas and Electric Company
		125	San Onofre 2, 3 & ISFSI	San Onofre 1, 2, 3	Southern California Edison Co.
CT	66	62	Haddam Neck ISFSI	Haddam Neck	Connecticut Yankee Atomic Power Company
		4	Millstone 1, 2	Millstone 1, 2	Dominion Nuclear Connecticut
DE	98	10	Hope Creek	Hope Creek	Public Service Electric and Gas Co.
		88	Salem 1, 2	Salem 1, 2	
FL	180	143	St. Lucie 1, 2 & ISFSI	St Lucie 1, 2	Florida Power & Light Co.
		37	Turkey Point 3, 4 & ISFSI	Turkey Point 3, 4	
GA	211	120	Hatch 1/2	Hatch 1, 2	Southern Nuclear Operating Company
		91	Vogtle 1	Vogtle 1, 2	
IA	9	9	Duane Arnold	Duane Arnold	NextEra Energy, INC.
IL	1073	12	Braidwood	Braidwood 1	Exelon Generation Company, LLC
		4	Byron 1/2	Byron 1, 2	
		524	Dresden 2,3 & ISFSI	Dresden 1, 2, 3	
		21	LaSalle County 1	La Salle County 1, 2	
		417	Quad Cities 1/2	Quad Cities 1, 2	
		95	Zion 1 & 2	Zion 2, 3	
KS	4	4	Wolf Creek 1	Wolf Creek 1	Wolf Creek Nuclear Operating Corporation
LA	40	39	River Bend 1	River Bend 1	Entergy Operations Inc.
		1	Waterford 3	Waterford 3	
MA	7	7	Yankee Rowe ISFSI	Yankee Rowe	Yankee Atomic Electric Company
MD	183	183	Calvert Cliffs 1/2	Calvert Cliffs 1, 2	Constellation Energy
ME	133	133	Maine Yankee (ISFSI)	Maine Yankee	Maine Yankee Atomic Power Company
MI	147	50	Big Rock Point ISFSI	Big Rock Point	Consumers Energy Company
		97	Cook 1/2	Cook 1, 2	American Electric Power
MN	52	45	Monticello	Monticello	Xcel Energy
		7	Prairie Island 1/2	Prairie Island 1, 2	Northern States Power Company
MO	26	26	Callaway	Callaway	Ameren UE
MS	8	8	Grand Gulf 1 & ISFSI	Grand Gulf 1	Entergy Operations, Inc
NE	4	4	Cooper Station	Cooper Station	Nebraska Public Power District
NH	5	5	Seabrook	Seabrook	NextEra Energy, INC.
NJ	153	153	Oyster Creek 1 & ISFSI	Oyster Creek	AmerGen Energy Company, LLC
NY	1399	827	Fitzpatrick	Fitzpatrick	Entergy Nuclear Generating Company
		80	Ginna	Ginna	Constellation Energy
		244	Indian Point 2, 3 & ISFSI	Indian Point 1, 2, 3	Entergy Nuclear Generating Company
		248	Nine Mile Point 1, 2	Nine Mile Point 1, 2	Constellation Energy
OH	46	22	Davis-Besse	Davis-Besse	FirstEnergy Nuclear Operating Company
		7	Enrico Fermi 2	Enrico Fermi 2	Detroit Edison Company
		17	Perry 1	Perry 1	FirstEnergy Nuclear Operating Company
OR	16	16	Trojan ISFSI	Trojan	Portland General Electric
PA	356	12	Beaver Valley 1,2	Beaver Valley 1,2	FirstEnergy Nuclear Operating Company
		76	Limerick 1/2	Limerick 1, 2	Exelon Generation Company, LLC
		154	Peach Bottom 2, 3	Peach Bottom 2, 3	Exelon Generation Company, LLC
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SC	3	2	Oconee 1, 3	Oconee 1, 3	Duke Power Company
		1	Summer	Summer	South Carolina Electric and Gas Company
TN	69	61	Sequoyah 1	Sequoyah 1	Tennessee Valley Authority
		8	Watts Bar 1	Watts Bar 1	
TX	42	20	Comanche Peak 1/2	Comanche Peak 1, 2	Texas Utilities Electric Company
		22	South Texas 1, 2	South Texas 1, 2	STP Nuclear Operating Company
VA	5	5	North Anna 1	North Anna 1, 2	Dominion Virginia Power
VT	157	157	Vermont Yankee	Vermont Yankee	Entergy Nuclear Northeast
WA	5	5	Columbia	Columbia	Energy Northwest
WI	100	100	Point Beach 1/2 & ISFSI	Point Beach 1, 2	NextEra Energy, INC.
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