

APPENDIX C

Commercial Nuclear Power Reactors Undergoing Decommissioning and Permanently Shut Down Formerly Licensed to Operate

| Unit Location Docket Number | Reactor Type MWt MWe | NSSS Vendor | OL Issued Shut Down OL Terminated Closure Date Est. | Decommissioning Alternative Selected Current License Status |
|--|---|----------------|--|---|
| Big Rock Point Charlevoix, MI 05000155 | BWR 240 | GE | 05/01/1964 08/29/1997 01/08/2007 | DECON DECON Completed |
| Crystal River 3 Crystal River, FL 05000302 | PWR 2,609 | B&W LLP | 12/03/1976 02/20/2013 2074 | SAFSTOR SAFSTOR in Progress |
| Dresden 1 Morris, IL 05000010 | BWR 700 | GE | 09/28/1959 10/31/1978 2036 | SAFSTOR SAFSTOR |
| Duane Arnold Palo, IA 05000331 | BWR-MARK 1 1,912 | GE 4 | 06/22/1970 08/10/2020 2040 | SAFSTOR SAFSTOR in Progress |
| Fermi 1 Newport, MI 05000016 | SCF 200 | CE | 05/10/1963 09/22/1972 2032 | SAFSTOR SAFSTOR |
| Fort Calhoun 1 Ft. Calhoun, NE 05000285 | PWR-DRYAMB 1,500 | CE | 08/09/1973 10/24/2016 2076 | SAFSTOR SAFSTOR in Progress |
| Fort St. Vrain Platteville, CO 05000267 | HTG 842 | GA | 12/21/1973 08/18/1989 08/08/1997 | DECON DECON Completed |
| GE EVESR Sunol, CA 05000183 | Experimental Superheat Reactor 12.5 | GE | 11/12/1963 02/01/1967 04/15/1970 2025 | SAFSTOR SAFSTOR |
| GE VBWR (Vallecitos) Sunol, CA 05000018 | BWR 50 | GE | 08/31/1957 12/09/1963 2025 | SAFSTOR SAFSTOR |
| Haddam Neck Meriden, CT 05000213 | PWR 1,825 | WEST | 12/27/1974 12/05/1996 11/26/2007 | DECON DECON Completed |

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|--|---|------------------------|--|--|
| Humboldt Bay 3 Eureka, CA 05000133 | BWR 200 | GE | 08/28/1962 07/02/1976 2019 | DECON DECON in Progress |
| Indian Point 1 Buchanan, NY 05000003 | PWR 615 | B&W | 03/26/1962 10/31/1974 2036 | DECON DECON in Progress |
| Indian Point 2 Buchanan, NY 05000247 | PWR 3,216 | WEST | 09/28/1973 04/30/2020 | DECON DECON in Progress |
| Indian Point 3 Buchanan, NY 05000286 | PWR 3,216 | WEST | 12/12/1975 04/30/2021 | DECON DECON in Progress |
| Kewaunee Carlton, WI 05000305 | PWR 1,772 | WEST 2LP | 12/21/1973 05/07/2013 2073 | SAFSTOR SAFSTOR |
| LaCrosse Genoa, WI 05000409 | BWR 165 | AC | 07/03/1967 04/30/1987 2020 | DECON DECON in Progress |
| Maine Yankee Wiscasset, ME 05000309 | PWR 2,700 | CE | 06/29/1973 12/06/1996 09/30/2005 | DECON DECON Completed |
| Millstone 1 Waterford, CT 05000245 | BWR 2,011 | GE | 10/31/1970 07/21/1998 12/31/2056 | SAFSTOR SAFSTOR |
| Oyster Creek Forked River, NJ 05000219 | BWR 1,930 | GE | 04/09/1969 09/17/2018 2078 | SAFSTOR SAFSTOR |
| Palisades Covert, MI 05000255 | PWR-DRYAMB 2,565.4 | CE | 02/21/1991 ^A 05/31/2022 | SAFSTOR SAFSTOR |

A: The AEC issued a provisional operating license on 03/24/1971, allowing commercial operation. The NRC issued a full-term operating license on 02/21/1991.

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|---|---|------------------------|--|--|
| Pathfinder Sioux Falls, SD 05000130 | BWR 190 | AC | 03/12/1964 09/16/1967 07/27/2007 | DECON DECON Completed |
| Peach Bottom 1 Delta, PA 05000171 | HTG 115 | GA | 01/24/1966 10/31/1974 12/31/2034 | SAFSTOR SAFSTOR |
| Pilgrim Plymouth, MA 05000293 | BWR-MARK 1 2,028 | GE 3 | 06/08/1972 05/31/2019 2064 | SAFSTOR SAFSTOR |
| Rancho Seco Herald, CA 05000312 | PWR 2,772 | B&W | 08/16/1974 06/07/1989 09/25/2009 | DECON DECON Completed |
| San Onofre 1* San Clemente, CA 05000206 | PWR 1,347 | WEST | 03/27/1967 11/30/1992 2030 | DECON SAFSTOR |
| San Onofre 2 San Clemente, CA 05000361 | PWR CE 3,438 | CE | 02/16/1982 06/12/2013 2030 | DECON DECON in Progress |
| San Onofre 3 San Clemente, CA 05000362 | PWR CE 3,438 | CE | 11/15/1982 06/12/2013 2030 | DECON DECON in Progress |
| Savannah, N.S. Baltimore, MD 05000238 | PWR 74 | B&W | 08/1965 11/1970 2031 | DECON DECON in Progress |
| Saxton Saxton, PA 05000146 | PWR 23.5 | WEST | 11/15/1961 05/01/1972 11/07/2005 | DECON DECON Completed |
| Shoreham Wading River, NY 05000322 | BWR 2,436 | GE | 04/21/1989 06/28/1989 04/11/1995 | DECON DECON Completed |

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|---|-------------------------------|----------------|--|---|
| Three Mile Island 1 Middletown, PA 05000289 | PWR 2,568 | WEST | 04/19/1974 09/20/2019 2079 | SAFSTOR |
| Three Mile Island 2** Middletown, PA 05000320 | PWR 2,770 | B&W | 02/08/1978 03/28/1979 12/31/2036 | DECON DECON in Progress |
| Trojan Rainier, OR 05000344 | PWR 3,411 | WEST | 11/21/1975 11/09/1992 05/23/2005 | DECON DECON Completed |
| Yankee Rowe Rowe, MA 05000029 | PWR 600 | WEST | 12/24/1963 10/01/1991 08/10/2007 | DECON DECON Completed |
| Vermont Yankee Vernon, VT 05000271 | BWR-Mark 1 1,912 | GE 4 | 03/21/1972 12/29/2014 2030 | DECON DECON in Progress |
| Zion 1 Zion, IL 05000295 | PWR 3,250 | WEST | 10/19/1973 02/21/1997 2021 | DECON DECON in Progress |
| Zion 2 Zion, IL 05000304 | PWR 3,250 | WEST | 11/14/1973 09/19/1996 2021 | DECON DECON in Progress |

* Site has been dismantled and decontaminated with the exception of the reactor vessel, which is in long-term storage.

** Three Mile Island Unit 2 has been placed in a post-defueling monitored storage mode until Unit 1 permanently ceases operation, at which time both units are planned to be decommissioned.

Notes: GE Bonus, Hallam, and Piqua decommissioned reactor sites are part of the Department of Energy's nuclear legacy. For more information, visit DOE's Legacy Management website at <https://energy.gov/lm/sites/lm-sites>. CVTR, Elk River, and Shippingport decommissioned reactor sites were either decommissioned before the formation of the NRC or were not licensed by the NRC. N.S. = Nuclear Ship. See the NRC Online Glossary for definitions of decommissioning alternatives (DECON, SAFSTOR).

Source: DOE, "Integrated Database for 1990, U.S. Spent Fuel and Radioactive Waste, Inventories, Projections, and Characteristics" (DOE/RW-0006, Revision 6), and NRC, "Nuclear Power Plants in the World," Edition 6.

Data are current as of August 2021.