**Decommissioning US Reactors – SNF Storage Considerations Dec 2020** [**www.nei.org**](http://www.nei.org)

The process involves decontaminating the facility to reduce residual radioactivity, dismantling the structures, removing contaminated materials to appropriate disposal facilities, **storing used nuclear fuel until it can be removed from the site for disposal or consolidated storage, and releasing the property for other uses.** The owner remains accountable to the NRC until decommissioning has been completed and the agency has terminated its license.

**Ten reactors have completed decommissioning safely to either the point of license termination or the point where the remaining activities are limited to management of an**[**Independent Spent Fuel Storage Installation (ISFSI)**](https://www.nrc.gov/waste/spent-fuel-storage/sf-storage-licensing/lic-process-independent.html)**. Currently, 18 commercial power reactors are in decommissioning, and several more will transition to this process over the next few years.**

In DECON phase, the operator first decontaminates or removes contaminated equipment and materials. **The removal of used nuclear fuel rods and equipment—which accounts for over 99 percent of the plant’s radioactivity—**lowers the radiation level in the facility and significantly reduces the potential exposure to workers during subsequent decommissioning operations. DECON can take five years or more.

age).

| **Reactors that Completed Decommissioning (ISFSI-only or license terminated)** | |
| --- | --- |
| Big Rock Point | Shippingport |
| Fort St. Vrain | Shoreham |
| Haddam Neck | Trojan |
| Maine Yankee | Yankee Rowe |
| PathfinderRancho Seco |  |

| **Reactors in decommissioning 2020** | |
| --- | --- |
| Crystal River 3 | Millstone 1 |
| Dresden 1 | Peach Bottom 1 |
| Fermi 1 | San Onofre 1 |
| Fort Calhoun | San Onofre 2\* |
| GE ESADA Vallecitos | San Onofre 3\* |
| GE Vallecitos BWR | Three Mile Island 2 |
| Humboldt Bay\* | Vermont Yankee |
| Indian Point 1 | Zion 1\* |
| Kewaunee | Zion 2\* |
| LaCrosse\* |  |