

**STATUS SUMMARIES
FOR
REACTORS UNDERGOING DECOMMISSIONING**

BIG ROCK POINT

Licensee: Consumers Energy Company
Reactor Type: 67 Mw(e) BWR
Containment Type: Dry, Spherical
Vendor: GE
Power Level: Permanently shutdown
CP Issuance Date: 5/31/1960
OL Issuance Date: 5/1/1964
OL Expiration Date: N/A
Shutdown Date: 8/30/97

CURRENT DECOMMISSIONING STATUS

The plant shut down on August 30, 1997. Fuel was transferred to the spent fuel pool by September 20, 1997. The licensee submitted certification of permanent cessation of operations on June 26, 1997, and certification of permanent fuel removal on September 23, 1997. The licensee submitted their decommissioning plan (DP) on February 27, 1995. The DP was considered to be the post shutdown decommissioning activities report (PSDAR) and has subsequently been updated. The PSDAR public meeting was held on November 13, 1997. The licensee selected the DECON option. Under the current schedule, the Part 50 license would be terminated in 2007. The current decommissioning cost estimate is approximately \$314 million (2000 dollars). The estimated date of transfer of project management responsibility from the Office of Nuclear Reactor Regulation (NRR) to the Office of Nuclear Materials Safety and Safeguards (NMSS) is fiscal year (FY) 2003.

CURRENT ISSUES

The licensee is planning to use a generally-licensed onsite dry cask transportable system compatible with Big Rock and Palisades fuel. The licensee expects to transfer fuel to the independent spent fuel storage installation (ISFSI) beginning September 2002. A request to bury demolition debris in a State of Michigan Landfill in accordance with 10 CFR 20.2002 was approved on February 2, 2002.

August 2002

DRESDEN - Unit 1

Licensee: Exelon Generation Company
Reactor Type: BWR
Containment Type: Spherical
Vendor: GE
Power Level: Permanently shutdown
CP Issuance Date: 5/4/1956
OL Issuance Date: 9/28/1959
OL Expiration Date: N/A
Shutdown Date: 10/78

CURRENT DECOMMISSIONING STATUS

The plant shut down in October 1978 and is currently in SAFSTOR. The decommissioning plan was approved in September 1993. No significant dismantlement activities are underway. Asbestos removal, isolation of Unit 1 from Units 2 and 3, and general radiation cleanup activities are complete or in progress. The licensee will dismantle Unit 1 at the same time as the other two units onsite, which is expected no earlier than 2011. The licensee submitted an updated PSDAR on June 1, 1998. The PSDAR public meeting was held on July 23, 1998. The current decommissioning cost estimate is \$362 million (1996 dollars). The current amount in the decommissioning trust fund is \$92.9 million. The licensee expects to collect the remainder by 2011. The estimated date of transfer of project management responsibility from NRR to NMSS is FY 2003.

CURRENT ISSUES

The licensee is using the Holtec HISTAR 100 dual purpose cask and the HISTORM concrete overpack to store spent fuel. Casks have been loaded with Unit 1 spent fuel from the Unit 2 spent fuel pool, along with Unit 2 spent fuel, to address the Unit 2 spent fuel storage issue. In January 2002, the licensee completed transferring fuel from the Unit 1 spent fuel pool to dry storage.

August 2002

HADDAM NECK - CONNECTICUT YANKEE

Licensee: Connecticut Yankee Atomic Power Company
Reactor Type: PWR
Vendor: Westinghouse
Power Level: Permanently shutdown
Provisional OL: 6/30/67
Full Term OL: 12/27/74
OL Expiration date: N/A
Shutdown Date: 7/22/96

CURRENT DECOMMISSIONING STATUS

Steam generators, RCPs and the pressurizer have been removed from containment and reactor internals segmentation is complete. Preparations are underway for reactor vessel removal from containment in late 2002. The turbine building is being dismantled. There are 1016 spent fuel assemblies and 18 canisters of greater than Class C (GTCC) waste stored in the spent fuel pool. The licensee plans to begin operation of an ISFSI in 2003. The estimated date of transfer of project management responsibility from NRR to NMSS is FY 2003.

CURRENT ISSUES

The staff's review of the License Termination Plan (LTP) submitted in July 2000, continues. The LTP is being challenged by the Citizens Awareness Network. Pre-hearing conferences were held and the Atomic Safety and Licensing Board Panel (ASLBP) ruled on the admissibility of contentions in 2001.

The licensee has held discussions with the intervenors and appears to have resolved all but one or two contentions. The hearing will not be scheduled until the staff issues its evaluation of the licensee's LTP. The revised LTP will be submitted by August 23, 2002, and the staff will issue its safety evaluation no later than November 30, 2002. The staff expects that the safety evaluation may be issued in early October 2002, if the revised LTP has no problems.

The licensee recently obtained approval from the town government for construction of the planned ISFSI. A local public-interest group (NORAD) has filed suit against the town concerning the validity of the approval. The case is being heard in Federal Court. The Spent Fuel Project Office (SFPO) completed reviewing a NAC application to use its dry storage cask at Haddam Neck. The licensee began ISFSI construction and will begin fuel transfers in early 2003. The NRC review of the licensee's proposed ISFSI security plan is ongoing.

The licensee recently announced that plans with AES Corporation to use part of the site for a natural gas-fired electric plant are on hold, citing economic conditions unfavorable to AES.

August 2002

HUMBOLDT BAY

Licensee: Pacific Gas & Electric Co.
Reactor Type: 65 MW(e) BWR
Containment Type: Pressure suppression
Vendor: GE/Bechtel
Power Level: Permanently shutdown
Date of CP: 11/9/60
Date of OL: 08/28/62
OL Expiration: N/A
Shutdown Date: 07/76

CURRENT DECOMMISSIONING STATUS

The plant was shutdown in July 1976. The plant is in SAFSTOR. The decommissioning plan was approved in July 1988. The licensee is evaluating the feasibility of early dismantlement with license termination in 2005. The 250-ft ventilation stack, which was in close proximity to the spent fuel pool, has been dismantled and replaced with a 50-ft vent stack that is less vulnerable to seismic induced damage. In September 1997, the licensee successfully repaired groundwater leaks into the reactor building caisson. The grout injection effort reduced inleakage from about 7000 gallons/day to less than 15 gallons/day. An updated PSDAR was submitted on February 27, 1998. The current decommissioning cost estimate is \$ 218 million (license termination in 2015) or \$201million (license termination in 2005). There is currently \$202.5 million in the decommissioning trust fund. The estimated date of transfer of project management responsibility from NRR to NMSS is FY 2003.

CURRENT ISSUES

The plant is presently removing asbestos as a trial activity in establishing their decommissioning work and cost control practices. The licensee selected-Holtec International as its ISFSI and dry-shielded canister vendor utilizing the Hi-Star system and a below grade storage ISFSI. The plant is in compliance with the Fall 2001 security Confirmatory Action Letter issued by the U.S. Nuclear Regulatory Commission (NRC). About \$15M has been spent on decommissioning related work and studies thus far. No funding issues have been identified. Local interveners may want spent fuel to remain in ISFSI once fuel is transferred. The ISFSI application is expected to be submitted in June 2003, with approval 2 years later and an additional year to build. They expect to remove fuel in 2007. Major decommissioning hinges on fuel removal from the fuel pool. LTP submittal is expected in 2007. There are no major issues with the community at this time. The plant is constructing a security alarm station (SAS) and associated systems. A pre-existing off-gas building which is blast proof will be used for the SAS structure.

August 2002

INDIAN POINT - Unit 1

Licensee: Entergy Nuclear Indian Point 2, LLC
Operation: Entergy Nuclear Operations, Inc (ENO)
Reactor Type: 257 Mw(e) PWR
Containment Type: Dry Volumetric Pre-Stressed
Vendor: B & W
Power Level: Permanently shutdown
CP Issuance Date: 5/56
OL Issuance Date: 3/26/1962
OL Expiration Date: N/A
Shutdown Date: 10/74

CURRENT DECOMMISSIONING STATUS

The plant was shutdown in October 1974, because its emergency core cooling did not meet regulatory requirements. Some decommissioning work associated with spent fuel storage was performed from 1974 through 1978. The order approving SAFSTOR was issued in January 1996. The PSDAR public meeting was held on January 20, 1999. Currently there is no significant dismantlement underway. The licensee plans to decommission Unit 1 with Unit 2, which is currently in operation.

IP1 is owned and licensed by Entergy Nuclear Indian Point 2, LLC. (Entergy Nuclear Indian Point IP-2) and operated by Entergy Nuclear Operations, Inc. (ENO). The license was transferred from Consolidated Edison Company to Entergy Nuclear Inc. in December 2001. Consolidated Edison transferred to Entergy all of the accumulated decommissioning trust funds for IP2 such that the total amount transferred for IP1 and IP2 is no less than \$430 million. The licensee does not plan to begin active decontamination and decommissioning until 2013, when the IP2 license expires. The estimated date of transfer from NRR project management to NMSS project management has not been determined yet.

CURRENT ISSUES

The licensee has submitted a license amendment request to better coordinate Indian Point 1 and 2 programs. The change would integrate Indian Point 1 procedures within Unit 2 programs and facilitate Unit 2's transition to improved standard technical specifications.

The Indian Point complex has been the focus of intense public attention from concerned citizens as well as local, state, and national officials since the terrorist acts of September 11, 2001.

August 2002

LACROSSE

Licensee: Dairyland Power Corporation
Reactor Type: 50 Mw(e) BWR
Containment Type: Light cylinder with hemispherical dome and semi-ellipsoidal bottom
Vendor: Allis-Chalmers
Power Level: Permanently shutdown
CP Issuance Date: 3/29/1963
OL Issuance Date: 7/3/1967
OL Expiration Date: N/A
Shutdown Date: 04/30/87

CURRENT DECOMMISSIONING STATUS

The plant was shut down on April 30, 1987. The SAFSTOR DP was approved August 7, 1991. The DP is considered the PSDAR. The PSDAR public meeting was held on May 13, 1998. Limited and gradual dismantlement is currently underway. The current decommissioning cost estimate is \$98.7 million for dismantlement. The current amount in the decommissioning trust fund is \$ 66.9 million. The licensee expects to collect an additional \$2.2 million per year through the year 2010. The estimated date of transfer of project management responsibility from NRR to NMSS is FY 2003.

CURRENT ISSUES

The licensee has hired a contractor to evaluate private fuel storage and on-site independent spent fuel storage installation alternatives. This is expected to be a 22-week effort to determine the future direction for LaCrosse.

August 2002

MAINE YANKEE

Licensee: Maine Yankee Atomic Power Company (MYAPC)
Reactor Type: PWR
Containment Type: Steel lined, reinforced concrete
Vendor: CE
Power Level: Permanently shutdown 860 MWe
OL Issuance Date: 6/29/1973
Shutdown Date: 12/06/96

CURRENT DECOMMISSIONING STATUS

The plant was shutdown on December 6, 1996. Certification of permanent cessation of operations was submitted on August 7, 1997. The PSDAR was submitted on August 27, 1997. The LTP was submitted on January 13, 2000. Based in part on hearing requests by the State of Maine and Friends of the Coast Opposing Nuclear Pollution (FOC), the licensee committed to develop a revised LTP and submitted the revised LTP on June 1 and August 13, 2001. The licensee selected DECON as decommissioning option. A \$250 million decommissioning and decontamination contract was awarded to Stone & Webster Engineering Corporation (SWEC) on August 4, 1998. The plant was de-powered on December 30, 1998 to a "cold, dark plant" status for turnover to SWEC. On May 4, 2000, MYAPC terminated its contract with SWEC due to SWEC's financial difficulties and impending bankruptcy. The three steam generators and the pressurizer were shipped to GTS Duratek in Memphis, Tennessee, in June and July 2000, for processing and disposal. The current decommissioning cost estimate is \$547 million of which \$357 million applies to decommissioning, \$154 million applies to spent fuel management, and \$36 million applies to site restoration. The estimated date of transfer of project management responsibility from NRR to NMSS is FY 2003.

On September 13, 2000, MYAPC announced that it was revising its plan for disposing of concrete from demolished buildings at the Maine Yankee site. MYAPC decided to dispose of above-grade concrete from demolished buildings by shipping the concrete to off-site disposal facilities rather than place it in the building foundations as it had initially proposed. The portion of the above-grade concrete that is radiologically contaminated will be shipped by rail to the Envirocare facility in Utah.

Beginning in July 2000, MYAPC began acting as its own general contractor, after terminating the decommissioning contract due to SWEC's impending bankruptcy. On January 26, 2001, MYAPC announced that it would manage the decommissioning through completion as its own general contractor.

The State of Maine and FOC filed separate petitions on June 16, 2000, to intervene in response to the license amendment associated with the Maine Yankee LTP. On July 20, 2000, the Atomic Safety and Licensing Board determined that the proceeding should be held in abeyance until MYAPC filed a revised LTP. MYAPC filed the revised LTP on June 1 and August 13, 2001. MYAPC, the State, and FOC reached a settlement on August 31, 2001; the proceeding was terminated on October 2, 2001. The staff conducted a public meeting in Wiscasset in March 2002, to discuss the LTP.

CURRENT ISSUES

The licensee will use the NAC International Universal Multi-Purpose Canister System (UMS) dry cask spent fuel storage system. The licensee began spent fuel transfer (1432 fuel assemblies in 60 casks) from the spent fuel pool to the onsite ISFSI in August 2002.

August 2002

MILLSTONE - Unit 1

Licensee: Northeast Nuclear Energy (NNECO)
Reactor Type: 652 MW(e) BWR
Vendor: GE
Power Level: Permanently shutdown
CP Issuance Date: 5/19/66
OL Issuance Date: 10/07/70 (Provisional Operating License)
10/31/86 (Full Term Operating License)
Shutdown Date: 11/04/95

CURRENT DECOMMISSIONING STATUS

Unit 1 was shutdown on November 4, 1995, and defueled on November 19, 1995. Certifications per 10CFR 50.82(a) were submitted July 21, 1998. The licensee's current plan is to leave the plant in SAFSTOR with minimal DECON until the Unit 2 operating license expires. The licensee submitted their PSDAR on June 14, 1999. NRR conducted public meetings in Waterford, CT, on February 9, and August 25, 1999. The PSDAR estimated the total decommissioning cost, including and ISFSI, to be \$692 million. A more recent analysis estimates the cost to be \$701 million in mid-year 1999 dollars (including fuel management/storage and site restoration). The decommissioning trust fund amount is \$304 million as of December 1999, with an additional \$36 million being collected each year. The licensee has not yet made any decision on constructing and operating an ISFSI. The estimated date of transfer from NRR project management to NMSS project management has not been determined yet.

CURRENT ISSUES

On March 9, 2001, the NRC issued an Order approving the transfer of the Operating License for Millstone, Units 1, 2 and 3 from Northeast Nuclear Energy Company (NNECO) to Dominion Nuclear Connecticut, Inc. The closing of the sale and transfer was completed on March 31, 2001.

As part of preparation for the sale, NNECO conducted a spent fuel inventory reconciliation and determined in December 2000 that the location of two spent fuel rods was unknown. In 1972 a once burned fuel assembly was disassembled to allow testing by GE. Two of the fuel rods were not put back in the assembly but were put in a special fuel rod box. Records dated 1979 and 1980 show the rods stored in the Northwest corner of the spent fuel pool. Records after 1980 do not show the fuel rods in the fuel pool. No record for transport of the fuel rods offsite has been found. A dedicated licensee investigative team conducted an investigation – at a cost of approximately \$9 million – to determine the location of the two fuel rods. The investigation determined that the rods are: (a) in an undetermined location in the Unit 1 spent fuel pool; (b) at General Electric Company's (GE's) Vallecitos nuclear fuel facility; or (c) at one or both of the low-level radioactive waste (LLRW) disposal facilities in Barnwell, South Carolina (Barnwell) or the Hanford reservation in Richland, Washington (Hanford). An NRC special inspection team concurred in the licensee's conclusion that the LLRW facility at Barnwell had the most significant opportunity to receive the rods, with an opportunity also existing to some small degree for the inadvertent shipment of the fuel rods to Hanford. A Notice of Violation with a proposed civil penalty of \$288,000 was issued on June 25, 2002.

August 2002

NUCLEAR SHIP SAVANNAH

Licensee: U.S. Maritime Administration
Reactor Type: 80 MW(t) PWR
Containment Type: Steel Vessel
Vendor: B&W
Power Level: Permanently shutdown
OL Issuance Date: 8/5/1965
OL Expiration Date: N/A
Shutdown Date: 11/70

CURRENT DECOMMISSIONING STATUS

The reactor is currently in SAFSTOR. All fuel has been removed from the ship. The NS Savannah is moored in the Maritime Administration Reserve Fleet in the James River, Virginia. As needed, the NS Savannah is towed into dry dock for hull maintenance. The U.S. Government is guaranteeing decommissioning funding which is estimated at \$76M. Because the reactor is portable, the location of decommissioning has not been determined. There are no plans to transfer NRR project management to NMSS project management.

CURRENT ISSUES

The licensee is exploring the possibility of FY 2002 supplemental funding for total decommissioning and disposal of the NS Savannah.

August 2002

RANCHO SECO

Licensee: Sacramento Municipal Utility District
Reactor Type: 2772 MW(t) PWR
Containment Type: Large Dry
Vendor: B&W
Power Level: Permanently shutdown
CP Issuance Date:
OL Issuance Date: 8/16/1974
OL Expiration Date: N/A
Shutdown Date: 06/89

CURRENT DECOMMISSIONING STATUS

The plant was shutdown in June 1989. The SAFSTOR decommissioning plan was approved in March 1995. The licensee revised its decommissioning plan in 1997 to use an incremental dismantlement approach. In November 1999, the licensee informed the NRC of its decision to begin full dismantlement of the facility. The licensee has completed dismantlement of the secondary side equipment in the turbine building. Wastes generated during decommissioning are being shipped to Envirocare. The current schedule is to complete the license termination survey by 2008. The licensee is now dismantling equipment in the auxiliary building. The current decommissioning cost estimate is \$433 million (1999 dollars). The licensee has spent \$118 million. The current amount in the decommissioning trust fund is approximately \$128 million and is considered adequate to complete decommissioning. The licensee will be collecting money through the license expiration date of 2008.

CURRENT ISSUES

On October 4, 1991, the licensee submitted a site-specific Part 72 ISFSI application using the VECTRA NUHOMS-MP187 dual purpose cask design. The ISFSI pad is completed and horizontal storage modules delivered. The transportation and storage aspects of the dual purpose cask have been approved. A local public meeting to discuss the licensee's current dismantlement plans was held on June 20, 2000. In July 2000, the licensee received its spent fuel shipping cask. On March 12 to 15 and April 2 to 3, 2001, the NRC conducted a team inspection at Rancho Seco to evaluate the pre-operational test activities for the ISFSI. On April 3 to 13 and 19, 2001, the NRC conducted an inspection of the loading of the first canister into the ISFSI. In general all activities were performed satisfactorily. The licensee expects to complete loading and transfer of all the storage casks in August 2002.

August 2002

SAN ONOFRE - Unit 1

Licensee: Southern California Edison (SCE)
Reactor Type: 436 Mw(e) PWR
Containment Type: Spherical
Vendor: Westinghouse
Power Level: Permanently shutdown
CP Issuance Date: 3/2/1964
OL Issuance Date: 3/27/1967
OL Expiration Date: N/A
Shutdown Date: 11/92

CURRENT DECOMMISSIONING STATUS

The plant was shut down in November 1992. The licensee submitted an updated PSDAR on December 15, 1998. The PSDAR public meeting was held on February 25, 1999. The facility transitioned from SAFSTOR in 1999 and is now in active decommissioning (DECON). Significant dismantlement is currently underway. The licensee has completed demolition of the EDG building as part of their effort to make room for an onsite ISFSI. The administration building has been removed. The control room has been relocated and Unit 1 has established its SFP island concept with the rest of the Unit 1 facility cold and dark. Operating personnel are dedicated to Unit One. The estimated date of transfer of project management responsibility from NRR to NMSS is FY 2003.

CURRENT ISSUES

The utility is presently constructing an onsite ISFSI that will serve all three units. Unit 1 fuel is in all three fuel pools; the licensee plans to move Unit 1 fuel next year. All GTCC reactor internal waste has been removed from the reactor pressure vessel (RPV) and is in the fuel pool. The containment roof concrete has been removed. Roof structural work is ongoing. Large component removal from the containment will begin later this year. Discussions are ongoing to determine who will take the lead for National Environmental Policy Act (NEPA) Permit development to allow the RPV to transit the Camp Pendleton Marine Corps base. The Marine Corps wants NRC to take the lead. The licensee does not anticipate a problem in complying with the upcoming order for heightened security provisions. There is a security boundary and security practices in place that meet or exceed the Fall 2001, Confirmatory Action Letter issued by NRC. SONGS-1 has had very good dose control thus far in their decommissioning. They are considering leaving their RPV on site until the other two units decommission. There are no decommissioning funding issues. SCE is constructing their dry storage casks under the supervision of TN West.

August 2002

SAXTON

Licensees: GPU Nuclear and Saxton Nuclear Experimental Corp.
Reactor Type: 28 Mw(th) PWR
Containment Type: Steel vessel
Power Level: Permanently shutdown
CP Issuance Date: 2/11/1960
OL Issuance Date: 11/15/1961
OL Expiration Date: N/A
Shutdown Date: 05/72

CURRENT DECOMMISSIONING STATUS

The plant was shutdown in May 1972, and in February 1975, was placed in SAFSTOR until 1986, when phased dismantlement began with removal of support buildings, contaminated soil, and some material in the containment. The licensees submitted a decommissioning plan in 1996, which became the PSDAR. The licensee submitted a LTP in February 1999, which was returned without review to the licensees because it contained insufficient information to perform a detailed review. The LTP was resubmitted in February 2000, and has passed an acceptance review. The NRC staff approved an amendment request in 1998 to allow dismantlement under 10 CFR 50.59. The licensee has started dismantlement activities. The reactor vessel with internals, steam generator, and pressurizer have been shipped to Barnwell for disposal. The current decommissioning cost estimate is \$57 million in 2001 dollars. The remaining decommissioning activities are estimated to cost \$10 million. The Saxton owners have provided parent company guarantees of \$20 million. The licensees' funding status for decommissioning will be reviewed with the LTP. In March 2001, NRC approved the merger of GPU, Inc. and First Energy Corp. All spent fuel has been removed from site. There is no current plan to transfer project management from NRR to NMSS.

CURRENT ISSUES

The licensee has delayed the estimated completion date of decommissioning activities from late 2001 until late 2002. The delay is caused by the discovery that contamination had spread behind the concrete shielding that lines parts of the containment vessel. The licensee is in the process of removing all of the concrete from the containment to ensure that contamination is addressed. Because of the high water table at the site, the area around the containment was de-watered and the containment was anchored to bedrock to prevent the containment from becoming buoyant as weight is removed. The NRC staff continues to evaluate the LTP.

August 2002

THREE MILE ISLAND - Unit 2

Licensee: GPU Nuclear
Reactor Type: 792 Mw(e) PWR
Containment Type: Dry Volumetric Pre-stressed
Vendor: B&W
Power Level: Permanently shutdown
CP Issuance Date: 11/4/1969
OL Issuance Date: 2/8/1978
OL Expiration Date: N/A
Shutdown Date: 03/79

CURRENT DECOMMISSIONING STATUS

The operational accident occurred in March 1979. The plant defueling was completed in April 1990. Post Defueling Monitored Storage (PDMS) was approved in 1993. There is no significant dismantlement underway. The plant shares equipment with the operating TMI - Unit 1. TMI-1 was sold to Amergen in 1999. GPU Nuclear will retain the license for TMI-2 and contract to Amergen for maintenance and surveillance activities. Both units are expected to be decommissioned in 2014. GPU has formed a Saxton-TMI-2 Oversight Committee. The current radiological decommissioning cost estimate is \$469 million and \$34 million for non-radiological funds. The current amount in the decommissioning trust fund is \$366 million accumulated per 10 CFR 50.75 (b)(c). The spent fuel was removed except for some debris in the nuclear steam supply system. The fuel debris removed is currently in storage at Idaho National Engineering Laboratory. DOE has taken title and possession of the fuel debris. The estimated date of transfer of project management responsibility from NRR to NMSS is FY 2003.

CURRENT ISSUES

The staff is reviewing one license amendment request that would transfer most of the technical specification requirements of TMI-2 to those of TMI-1.

August 2002

TROJAN

Licensee: Portland General Electric
Reactor Type: 1095 Mw(e) PWR
Containment Type: Dry Volumetric Pre-stressed
Vendor: Westinghouse
Power Level: Permanently shutdown
CP Issuance Date: 2/8/1971
OL Issuance Date: 11/21/1975
OL Expiration Date: N/A
Shutdown Date: 11/9/92

CURRENT DECOMMISSIONING STATUS

The plant was shutdown in November 1992. The DECON decommissioning plan was approved in April 1996. The plant is currently undergoing dismantlement under 10 CFR 50.59. The steam generators and reactor vessel have been shipped to Hanford LLW site. The decommissioning cost was estimated to be approximately \$240 million (1997 dollars). The licensee was granted a site-specific Part 72 license for an onsite ISFSI in March 1999. The licensee submitted a proposed LTP in August of 1999. A public meeting on the LTP was held in St. Helens, Oregon on December 7, 1999. License Amendment 206 was issued in February 2001, approving the LTP.

CURRENT ISSUES

The staff has met with the licensee to discuss unresolved inspection items related to the licensee's implementation of the approved LTP. Specifically, the staff had concerns regarding downgrading the classification of survey units that had been approved in the LTP at a higher initial classification. The staff performed extensive confirmatory surveys to evaluate these areas, and is presently evaluating the data.

The licensee notified the Commission that it expects to begin spent fuel transfer to the ISFSI in November 2002.

August 2002

VALLECITOS BOILING WATER REACTOR

Licensee: General Electric (GE)
Reactor Type: 50 MW(t) BWR
Containment Type: Steel, cylindrical 48' dia, 100' height, hemispherical ends
Vendor: GE
Power Level: Permanently shutdown
CP Issuance Date: 5/14/1956
OL Issuance Date: 5/14/1956
OL Expiration Date: N/A

CURRENT DECOMMISSIONING STATUS

The plant is currently in SAFSTOR. The decommissioning cost was estimated to be \$10.7 million. GE has a self-guarantee instrument. The spent fuel has been removed from the site. There are no plans to transfer NRR project management to NMSS project management.

CURRENT ISSUES

There are no current issues.

August 2002

YANKEE ROWE

Licensee: Yankee Atomic
Reactor Type: 167 Mw(e) PWR
Containment Type: Steel Sphere - Uninsulated
Vendor: Westinghouse
Power Level: Permanently shutdown
CP Issuance Date:
OL Issuance Date: 12/24/1963
OL Expiration Date: July 9, 2000
Shutdown Date: 10/01/91

CURRENT DECOMMISSIONING STATUS

The plant was permanently shutdown on October 1, 1991. The DECON decommissioning plan was approved in February 1995 and the plant is undergoing dismantlement under 10 CFR 50.59. The steam generators were shipped to Barnwell. The reactor vessel was shipped on April 27, 1997 to Barnwell by truck and rail, in one piece with no internals, and arrived on May 8, 1997. The licensee has removed all of the primary system, secondary side components and switch yard from the site. As of fall 1999, the plant is about 80% dismantled. The containment and other major structures remain. The spent fuel pool building is the only remaining "vital" area and has the appropriate safety related programs, such as safeguards, in place. The spent fuel pool has been segregated from the remaining decontamination and dismantlement activities by providing it with independent and redundant electrical and cooling systems, and multiple sources of cooling water.

A License Termination Plan was submitted on May 15, 1997. Local citizens' groups had filed petitions for leave to intervene on the License Termination Plan. However, the licensee on May 26, 1999, filed a motion to the Commission and ASLB to withdraw the license termination plan amendment request and for termination of the hearing. Under current regulations, the licensee need not submit a new termination plan until 2052.

CURRENT ISSUES

The licensee has determined that a decommissioning operations contract is not economically feasible, and will continue to manage the project. The licensee has completed construction of an on-site ISFSI under a general license. The fuel handling crane capacity has been increased and the crane made single-failure proof so that combined use storage/shipping casks could be safely handled. The licensee has applied, through a cask contractor, for a Part 71 license for a combined use cask. The NRC inspection of the licensee dry run for fuel move to the ISFSI was conducted in May. Actual fuel movement began in June 2002.

August 2002

ZION - Units 1 & 2

Licensee: Exelon Generation Company, LLC
Reactor Type: 3250 MW(t), 3250 MW(t) PWRs
Containment Type: Large dry
Vendor: Westinghouse
Power Level: Permanently shutdown
CP Issuance Date:
OL Issuance Date: 10/19/1973, 11/14/1973
OL Expiration Date: N/A
Shutdown Date: 02/13/98

CURRENT DECOMMISSIONING STATUS

Zion Nuclear Power Station (ZNPS) Units 1 and 2 was permanently shut down on February 13, 1998. The fuel was transferred to the spent fuel pool (SFP), and the licensee submitted the certification of fuel transfer on March 9, 1998. There was a public meeting on June 1, 1998 to inform the public of the shutdown plans. The licensee has converted the turbine-generators into synchronous condensers, and they have isolated the SFP within a fuel building "nuclear island," and placed the plant in SAFSTOR, where it will remain until fuel transfer to DOE in about 2013. Decommissioning costs have been estimated at about \$560 million. The licensee will continue to collect a per kw-hr fee for decommissioning ZNPS at an annual rate of approximately \$9.1million until 2013. The estimated date of transfer of project management responsibility from NRR to NMSS is FY 2003.

The de-fueled safety analysis report was submitted in 1998. The permanently de-fueled Technical Specifications (PDTS) were issued on December 30, 1999, with implementation by January 17, 2000. The licensee submitted the PSDAR, site specific cost estimate, and fuel management plan on February 14, 2000. The staff held a public meeting to discuss the PSDAR on April 26, 2000.

On January 12, 2001, Exelon Generation Company, LLC became the holder of the Zion facility operating licenses formerly held by Commonwealth Edison Company (ComEd) due to the restructuring following the merger between Unicom Corporation and PECO Energy Company.

The continuing inspection program is being conducted jointly with the State of Illinois Department of Nuclear Safety, which has qualified several of its inspection personnel to perform decommissioning reactor inspections. This program is performed pursuant to a 1999 revision to a previous inter-Agency Memorandum of Understanding that is unique in the U. S. Inspection activities in 2001 are expected to continue to focus on management controls, decommissioning support, fuel safety, and radiation safety.

CURRENT ISSUES

The staff is currently processing one licensing action that would eliminate the requirement for at least one person qualified to stand watch to be present in the control room when nuclear fuel is stored in the spent fuel pool. In addition to local surveillance of SFP conditions each shift, the plant pager system will be modified to alert operating personnel when abnormal SFP conditions are present. The staff review is ongoing.

August 2002