

STATUS SUMMARIES
FOR
REACTORS UNDERGOING DECOMMISSIONING

BIG ROCK POINT

Licensee: Consumers Energy Company
Reactor Type: 67 Mw(e) BWR
Containment Type: 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 shutdown on August 30, 1997. Fuel was transferred to the spent fuel pool on September 20, 1997. The licensee submitted certification of permanent cessation of operations on June 26, 1997, certification of permanent fuel removal on September 23, 1997. The licensee submitted decommissioning plan (DP) on February 27, 1995. The DP is considered to be the PSDAR. The PSDAR public meeting held on November 13, 1997. The licensee selected DECON option. Under the current schedule, the Part 50 license would be terminated in 2007. The current decommissioning cost estimate is \$304 million (1999 dollars). The current amount in the decommissioning trust fund is \$245.5 million less 68.5 million withdrawn to cover decommissioning expenditures to date.

CURRENT ISSUES

The licensee is planning to use a general licensed onsite dry cask transportable system compatible with Big Rock and Palisades fuel. The licensee expects to transfer fuel to ISFSI by October 2001. The estimated date of transfer from NRR project management to NMSS project management is 2006 due to a pending license amendment request to establish a solid material free release limit.

HADDAM NECK - CONNECTICUT YANKEE

Licensee: Connecticut Yankee Atomic Power Company
Reactor Type: 1 825 MWt 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

The plant was shutdown on July 22, 1996. The fuel was removed from the reactor vessel on November 15, 1996. The licensee submitted certification of permanent cessation of operations on December 5, 1996. The PSDAR was submitted on August 22, 1997. The PSDAR public meeting was held on October 27, 1997. The licensee is using the DECON option. Chemical decontamination of primary system is complete. Bechtel Power Corp. was selected as Decommissioning Operations Contractor (DOC) in April 1999. Steam generators, RCPs and the pressurizer have been removed from containment. Reactor internals segmentation and fuel inspections are underway. Building demolition has begun. The date of transfer from NRR project management to NMSS project management has not been determined, however, the licensee plans to begin operation of an ISFSI in 2003. The licensee has 1016 spent fuel assemblies stored in the spent fuel pool.

CURRENT ISSUES

The licensee plans to submit its LTP in April 2000. NAC plans to submit a license amendment in March 2000 to use its dry storage cask at Haddam Neck. Negotiations with AES Corporation are underway to use the site for a natural gas fired electric plant. CY wants to release its parking lot area for unrestricted use to build the natural gas plant. The staff is developing a method to do a partial site release, which is not provided for in the regulations.

DRESDEN - Unit 1

Licensee: Commonwealth Edison
Reactor Type: 200 Mw(e) 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 shutdown in October 1978. The plant is 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 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 expected date of transfer from NRR project management to NMSS project management has not been determined.

CURRENT ISSUES

The licensee will use Holtec HISTAR 100 dual purpose cask and HISTORM concrete overpack to store spent fuel. HISTAR 100 draft Certificate of Compliance SER issued in September 1998. The HISTORM final rule is expected in June 2000. The licensee has scheduled practice offloading for 2000.

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 was replaced with a 50-ft vent stack that is less vulnerable to seismic induced damage. An updated PSDAR was submitted on February 27, 1998. In September 1997, the licensee successfully repaired groundwater leaks into reactor building caisson. The grout injection effort reduced inleakage from about 7000 gal/day to less than 15 gal/day. The current decommissioning cost estimate is \$197.6 million (including ISFSI). There is currently \$202.5 million in the decommissioning trust fund. PG&E believes that sufficient funds are in the decommissioning trust fund to ensure successful decommissioning in 2015. The expected date of transfer from NRR project management to NMSS project management is 2005.

CURRENT ISSUES

The licensee is planning to submit an ISFSI application in the fall of 2000, and anticipates the review and approval process will take 2 years. If the application is approved, a decision will then be made on whether to proceed with ISFSI construction. ISFSI construction and fuel movement is projected to be completed early in the year 2005.

INDIAN POINT - UNIT 1

Licensee: Consolidated Edison
Reactor Type: 257 Mw(e) PWR
Containment Type:
Vendor:
Power Level: Permanently shutdown
CP Issuance Date:
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. The order approving SAFSTOR was issued in January 1996. The license was extended to 2006. Currently there is no significant dismantlement underway. The licensee plans to decommission Unit 1 with Unit 2, which is currently in operation. The PSDAR public meeting was held on January 20, 1999. The current decommissioning cost estimate is for both Units 1 and 2. The licensee estimated site-specific decommissioning cost in 1998 dollars of \$771.3 million. About 40% of this amount represents spent fuel storage costs. The estimated date of transfer from NRR project management to NMSS project management has not been determined yet.

CURRENT ISSUES

The licensee recently informed the NRC of its intentions to seek regulatory approval for onsite dry cask storage of the fuel in the SFP. IP2 fuel may also be stored in IP1 unit but final decision has not been made. IP1 may be sold to Entergy Corp; and ConEd's purchase of NU is under regulatory procedures.

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 shutdown on April 30, 1987. The SAFSTOR decommissioning plan (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 from NRR project management to NMSS project management can not be determined because the licensee plans to stay in SAFSTOR for years.

CURRENT ISSUES

The licensee is coordinating with the Goshute Indian tribe in Utah for MRS. The licensee has no plans for an on site ISFSI.

MAINE YANKEE

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

CURRENT DECOMMISSIONING STATUS

The plant was shutdown on December 6, 1996. The transfer of fuel to the spent fuel pool was completed on June 20, 1997. Certification of permanent cessation of operations was submitted on August 7, 1997. The PSDAR was submitted on August 27, 1997 and the PSDAR public meeting was held on November 6, 1997. The licensee selected DECON as decommissioning option. The site characterization is complete. 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. The licensee's contractor has commenced removal of hot spots and contaminated equipment from containment and the primary auxiliary building. Some contaminated equipment (including the three steam generators and the pressurizer) is being shipped to GTS Duratek in Memphis, Tennessee, 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. Currently, the decommissioning trust fund has \$212.7 million. The licensee is adding \$36.4 million each year. The expected date of transfer from NRR project management to NMSS project management is 2002, upon completion of fuel transfer to the ISFSI.

CURRENT ISSUES

The licensee intends to use the NAC International Universal Multi-Purpose Canister System (UMS) dry cask spent fuel storage system. Spent fuel transfer from the spent fuel pool to the onsite ISFSI is scheduled from April 2001 to August 2002..

MILLSTONE - UNIT 1

Licensee: Northeast Nuclear Energy (NNECO)
Reactor Type: 652 MW(e) BWR
Containment Type:
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)
OL Expiration Date: N/A
Shutdown Date: 11/04/95

CURRENT DECOMMISSIONING STATUS

Unit 1 was shutdown on November 4, 1995. Certifications per 10CFR 50.82(a) were submitted July 21, 1998. The licensee's current plan is to leave the plant in SAFSTOR until the Unit 2 operating license expires. The licensee submitted their PSDAR on June 14, 1999. The licensee has chosen a combination of the DECON and SAFSTOR options, but they kept the option open for DECON without placing part of the facility in SAFSTOR. Project management transfer within NRR occurred on December 7, 1998. NRR conducted two 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. The decommissioning trust fund amount is \$273.4 million as of 12/98. The expected date of transfer from NRR project management to NMSS project management has not been determined.

CURRENT ISSUES

The licensee has requested an exemption to 10 CFR 140.11(a)(4), secondary financial indemnity requirements on September 29, 1999. The exemption request references a site specific SFP hazards analysis. An updated analysis summary was forwarded to the staff on March 2, 2000, in response to a request for Additional Information dated January 19, 2000. A request for an exemption to certain physical security regulations is planned to be submitted in the near future in support of a realignment of the protected area to exclude portions of Unit 1. The licensee is evaluating the feasibility of constructing and operating an ISFSI. The PSDAR projects the fuel transfer to an ISFSI, if they build one, being completed by the end of 2005.

RANCHO SECO

Licensee: Sacramento Municipal Utility District
Reactor Type: 2772 MW(t) PWR
Containment Type:
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 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 \$128 million. The licensee will be collecting money through the license expiration date of 2008. The expected date of transfer from NRR project management to NMSS project management is 2001.

CURRENT ISSUES

On 10-4-91, the licensee submitted a site-specific Part 72 ISFSI application using the VECTRA NUHOMS-MP187 dual purpose cask design. This cask has design issues include hydrogen generation. The ISFSI pad is completed and horizontal storage modules delivered. The transportation aspects of the dual purpose cask have been approved. The NRC's review of storage is still in process. The licensee expects to load fuel into ISFSI in early 2000.

SAN ONOFRE - UNIT 1

Licensee: Southern California Edison
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 shutdown 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 is in a transition from SAFSTOR to active decommissioning (DECON). No major dismantlement is currently underway, however, the licensee plans significant decommissioning activities in 2000 including the removal of the EDG buildings to make room for an ISFSI; major security modifications; and preparations to go cold and dark. The latest decommissioning cost estimate is \$459 million (1998 dollars) which includes ISFSI costs. The full amount necessary to complete the plant decommissioning is in the decommissioning trust fund. The expected date of transfer from NRR project management to NMSS project management has not been determined.

CURRENT ISSUES

Recent licensee schedules indicated ISFSI construction and cask procurement by mid 2003. The projected review and approval time for the cask certification is very tight. The licensee anticipates completing the Unit 1 spent fuel moved into ISFSI dry cask storage in mid 2004. GTCC waste will also be stored in ISFSI. Seismic issues related to ISFSI licensing will need to be resolved. The licensee is still developing its security plan changes to Unit 1 and continuing to dialog with the NRC.

SAXTON

Licensees: GPU Nuclear and Saxton Nuclear Experimental Corp.
Reactor Type: 28 Mw(th) PWR
Containment Type: Steel vessel
Vendor:
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 License Termination Plan (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 50.59. The licensee has started dismantlement activities. The reactor vessel with internals, steam generator, and pressurizer have been shipped to Barnwell for disposal. DWM reviewed the reactor vessel waste classification and approved the proposed classification. The current decommissioning cost estimate is \$36 million in 1998 dollars, including funds to bring site to greenfield condition. The current amount in the licensee decommissioning trust fund is \$25.9 million. Because Pennsylvania collections ended in December 1998, sufficient deposits to the decommissioning trust fund are not being made. In reply to a staff request for additional information, the licensees stated that the \$6.1 million unfunded balance will be paid by Saxton's owners. The licensees' submission is undergoing review by the NRC staff. 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 expects to complete decommissioning so the license can be terminated in 2001. With the sale of nuclear electrical generating assets, GPU Nuclear is planning changes in their corporate structure and expects to submit a license amendment request for changes to the administrative requirements of the technical specifications.

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 operation accident occurred in March 1979. The plant defueling was completed in April 1990. Post Defueling Monitored Storage was approved in 1993. There is no significant dismantlement underway. The plant shares equipment with the other operating unit, which will be 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 currently expected to be decommissioned together in 2014. The current radiological decommissioning cost estimate is \$421 million. The current amount in the decommissioning trust fund is \$274.9 million. The licensee expects an annual rate of collection of \$10.3 million until the totally funded. The spent fuel was removed except for some debris in the NSSS. The fuel debris removed is currently in storage at INEL. DOE has taken title and possession of the fuel debris. The date of transfer from NRR project management to NMSS project management has not been determined.

CURRENT ISSUES

The recent sale of TMI-1 will not interfere with GPU's mothballed TMI-2. GPU is currently eyeing the formation of a new "Saxton-TMI-2 Oversight Committee."

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: 11/91

CURRENT DECOMMISSIONING STATUS

The plant was shutdown in November 1991. The DECON decommissioning plan was approved in April 1996. The plant is currently undergoing dismantlement under 50.59. The steam generators have been shipped to Hanford LLW site. The licensee received approvals from NRC, DOT, and State of Washington to ship the reactor vessel in one piece with internals as its own transportation package. The reactor vessel shipment was completed in August, 1999. The decommissioning cost was estimated to be \$240 million (1997 dollars). The current amount in the decommissioning trust fund is \$80.5 million (1997). The licensee has access to sufficient funds to complete decommissioning. On 3-26-96, the licensee submitted a site-specific Part 72 ISFSI application using SNC TranStor Cask System. The licensee was granted a Part 72 license for an onsite ISFSI in March 1999. The licensee submitted a License Termination Plan that is currently under review. A public meeting on the LTP was held in St. Helens, Oregon on December 7, 1999. Attendance was light and no significant issues regarding the LTP were raised.

CURRENT ISSUES

The licensee has revised their schedule for Trojan decommissioning based on problems with the transport licensing of the spent fuel casks. Following the identification of problems with the drop testing and analysis for the casks, the vendor, has withdrawn the transport license application. The current estimate is that the additional time for transport licensing of the casks will not permit loading the spent fuel in the casks for about two years. With cask licensing projected for late 2002, completion of the transfer of the spent nuclear fuel from the spent fuel pool to the ISFSI is not expected until 2003. Following decommissioning of the spent fuel pool, Part 50 license termination is projected for 2005.

VALLECITOS

Licensee: General Electric
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 facility has a PSDAR. There are tentative plans to conduct a PSDAR meeting in the late spring of 2000. The decommissioning cost was estimated to be \$9.849 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.

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. The licensee has initiated the final site survey and the staff has performed three confirmatory inspections of the final site survey work. Local citizens' groups had filed petitions for leave to intervene on the License Termination Plan. The ASLB then initiated the hearing process and a pre-hearing conference was held on January 26 & 27, 1999. 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. The ASLB issued a license termination order on July 28, 1999. Under current regulations, the licensee need not submit a new termination plan until the middle of the next century (2052).

CURRENT ISSUES

Dismantlement of remaining structures is tentatively scheduled from 1999 through 2002. The licensee has elected to construct an on-site ISFSI under a general license and is to start construction mid year 2000. 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.

NRR is currently processing a Quality Assurance (QA) Program license amendment which is a completely revised QA program to be called the Defueled QA Program.

ZION - Units 1 & 2

Licensee: Commonwealth Edison
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

On January 15, 1998, the licensee announced that Zion Nuclear Power Station (ZNPS) Units 1 and 2 would be permanently shutdown. The plants permanently ceased operation 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 stated that they will isolate the SFP. The plant will be placed in SAFSTOR until about 2013, when the decommissioning trust fund will be sufficient to conduct decommissioning. The decommissioning costs calculated in accordance with 10 CFR 50.75(c) are about \$560.4 million. As of December 31, 1998 there was \$393 million in the decommissioning trust fund. Under Illinois PUC requirements, Commonwealth Edison Company will collect a per kw-hr fee for decommissioning ZNPS at an annual rate of approximately \$9.1million until 2013. In accordance with 10 50.75(f)(1) the licensee submitted a report on the status of decommissioning funding on March 31, 1999. A detailed estimate of decommissioning costs has not been submitted. The licensee will isolate the SFP and retain the fuel until it is accepted by Department of Energy during 2015-2030. The NRR project management is expected to be transferred to NMSS project management in 2031.

CURRENT ISSUES

The permanently defueled Technical Specifications (PDTs) license amendment application submitted in October 1998, and revised in April 1999 to supply missing information is under review. The staff expects to issue the PDTs by the end of 1999. The defueled safety analysis report was submitted in 1998. The staff approved the defueled emergency plan and issued an exemption from certain emergency preparedness regulations on August 31, 1999. Additionally, the staff issued an exemption from certain portions of 10 CFR Part 73 consistent with the Zion permanently defueled status on October 18, 1999, and an exemption from the insurance coverage and financial protection requirement limits of 10 CFR 50.54(w) and 10 CFR 140.11(a)(4) on December 21, 1999.