

Progress on Licensing Applications – Quarter 2

Applicant	Application Accepted for Review	Review status for long-term application reviews
Reactor License Renewal		
Indian Point 2&3	08/01/07	Several adjudicatory issues remain outstanding. The U.S. Nuclear Regulatory Commission (NRC) staff continues to review relevant new information and will supplement its existing evaluations, as necessary. The draft second supplement to the final supplemental environmental impact statement (SEIS) was issued for comment in December 2015. The comment period closed in March 2016. The current schedule for remaining milestones is to be determined pending resolution of adjudicatory matters.
Diablo Canyon 1&2	01/21/10	In April 2011, the applicant requested the NRC to delay final processing of the application, pending completion of certain seismic studies. In May 2011, the NRC staff delayed all remaining milestones to allow for completion of those studies. In April 2015, the NRC staff issued a schedule for the remainder of the staff's review. The staff expects to complete its review in 2017. The current schedule for a final licensing decision is to be determined pending the resolution of adjudicatory matters.
Seabrook 1	07/21/10	The NRC staff continues to work with the applicant to ensure technical issues for closure of the Safety Evaluation Report (SER) alkali silica reaction open item are properly addressed. The current schedule for remaining milestones is to be determined.
South Texas Project 1&2	01/13/11	The SER with open items for license renewal was issued in January 2013. One open item involves the selective leaching of aluminum bronze. The NRC staff continues to work with the applicant to resolve the selective leaching of aluminum bronze open item from the 2013 SER with open items. All other open items have been resolved and the staff is working to document their closure. The current schedule for remaining milestones is to be determined.
Grand Gulf 1	12/27/11	The review schedule was revised to accommodate a concurrent extended power up rate amendment and technical issues with analyses of (1) severe accident mitigation alternatives and (2) neutron fluence. The environmental review is completed. The staff plans to issue its final SER in April 2016. A final decision is expected in December 2016.

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Fermi 2	06/18/14	The comment period on the draft SEIS closed in December 2015, the SER with open items was issued in January 2016, and the staff plans to issue its final SER in July 2016. A final decision is expected in November 2016.
LaSalle 1&2	02/03/15	In February 2016, the staff published the draft SEIS for comment and issued the SER with open items. The staff plans to issue its final SER in May 2016. A final decision is expected in November 2016.
Waterford	Expected 04/2016	The review is expected take 22 months unless a hearing is conducted. A final decision, assuming there is no hearing, is expected in April 2018.
Research and Test Reactor Renewal		A large number of 40-year original licenses and 20-year renewed licenses approached expiration in the late 1990s, leading to a high volume of renewal applications in a short period of time. The staff was reviewing these applications when the attacks of September 11, 2001, occurred. Work on the renewals stopped when resources were diverted to security issues, creating a backlog of renewal reviews. In 2009, additional resources were re-allocated to reduce the backlog of renewal applications. The staff prioritized reviews for applicants with (1) technical and regulatory expertise and (2) assistance from the Department of Energy and completed these reviews in a relatively short period of time. However, licensees with insufficient resources, limited regulatory experience, and lack of specialized technical expertise encountered difficulties documenting their licensing bases. This resulted in multiple rounds of requests for additional information. The staff has issued renewed licenses for 16 of the currently 31 operating research and test reactors. Twelve pending renewal applications are discussed in more detail below.
Texas A&M University	07/22/97	The reactor is shut down because the licensee wants to move it to a new location. The license renewal review is suspended until the reactor is relocated.
University of California, Irvine	10/18/99	The license renewal review is near completion. The review schedule was extended to allow the licensee to make editorial changes to the technical specifications. The staff expects to complete its review by May 20, 2016.
University of Maryland	05/12/00	The licensee is addressing items related to maximum hypothetical accident and environmental boundary monitoring. The staff expects to complete its review by June 30, 2016.
University of Florida	07/18/02	The licensee is completing neutronics and thermal-hydraulic analyses. The staff expects to complete its review by December 30, 2016.
Rhode Island Atomic Energy Commission	05/03/04	The licensee is addressing items related to radiation physics and the proposed technical specifications. The review schedule was extended to allow a further iteration with the licensee on existing requests for additional information. The staff expects to complete its review by October 31, 2016.

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Armed Forces Radiobiology Research Institute	06/24/04	The license renewal review is undergoing final review. The staff expects to complete its review by June 30, 2016.
Aerotest	02/28/05	The review is suspended because of foreign domination and control issues.
University of Missouri Research Reactor at Columbia	08/31/06	The licensee is completing thermal hydraulics and is addressing the proposed technical specifications. The review schedule was extended to allow a further iteration with the licensee on existing requests for additional information. The staff expects to complete its review by October 28, 2016.
Purdue University	07/07/08	The licensee is completing routine and accident radioisotope release calculations. The staff expects to complete its review by September 30, 2016.
U.S. Geological Survey	01/05/09	The licensee is completing the thermal hydraulic analysis for a limiting core configuration. The staff expects to complete its review by October 28, 2016.
University of Texas at Austin	12/12/11	The licensee is completing neutronics and thermal-hydraulic analyses. The staff expects to complete its review by December 30, 2016.
University of Massachusetts at Lowell	10/20/15	The review is in progress. The staff expects to complete its review by November 30, 2017.
Combined License (COL)		
North Anna 3	01/28/08	The NRC staff expects to issue its advanced SER with no open items in October 2016, followed by its final SER in April 2017. The staff issued its final supplemental EIS for the North Anna COL application in February 2010.
Lee 1&2	02/25/08	The NRC staff issued its final environmental impact statement (EIS) in December 2013. The staff is waiting for the applicant to submit additional information related to AP1000 design issues so it can complete the safety review. Based on current schedule estimates for receipt of that information, the NRC expects to complete its technical review in the fall of 2016.
Levy County 1&2	10/06/08	The NRC staff issued its final EIS in April 2012. The staff has recently completed its technical review and met with its Advisory Committee on Reactor Safeguards on the final technical issues for the application. The NRC expects to issue its final SER in June 2016.
Bell Bend	12/19/08	The NRC staff issued its draft EIS to the U.S. Environmental Protection Agency (EPA) in April 2015 and is on schedule to issue its final EIS in April 2016. On January 9, 2014, the Bell Bend COL applicant requested that the NRC withhold further review of the safety portion of its COL application until further notice. The safety review remains on hold.

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Turkey Point 6&7	09/04/09	The NRC staff is waiting for the applicant to submit additional information related to AP1000 design issues so it can complete the safety review. The NRC staff expects to complete its advanced SER during fiscal year (FY) 2016. In February 2015 the NRC staff issued the draft EIS for the Turkey Point COL application and is working to address comments. Substantive comments were provided by other Federal agencies. The staff expects to issue its final EIS by October 2016.
Early Site Permit (ESP)		
PSEG	08/04/10	In September 2015, the NRC staff issued the final SER for the PSEG ESP application. Subsequently, the staff issued the final EIS to the U.S. EPA in November 2015. The ASLBP conducted the mandatory hearing for the PSEG ESP application on March 24, 2016, and issued its decision on April 26, 2016. The ASLBP found the NRC staff's review adequate to support its safety and environmental findings. The NRC signed and issued the ESP on May 5, 2016.
Design Certification (DC)		
AREVA US EPR	02/25/08	On February 25, 2015, AREVA requested that the NRC suspend the U.S. EPR DC application review. AREVA did not provide a date for resumption of the NRC staff review.
Mitsubishi US-Advanced Pressurized-Water Reactor (APWR)	02/29/08	On November 05, 2013, Mitsubishi Heavy Industries (MHI) informed the NRC of its decision to implement a period of reduced support for the US-APWR review to allow MHI to focus on supporting Japanese utilities in restarting PWRs in Japan. The staff is limiting its review to individual chapters as MHI's reduced budget allows. The completion date for the review is indeterminate as MHI has not determined when it will resume full support of the application.
Advanced Boiling-Water Reactor (ABWR) Renewal (Toshiba)	12/14/10	On May 25, 2015, Toshiba requested that the NRC postpone further review of its application until July 2016. On December 1, 2015, the NRC staff responded to Toshiba and accepted Toshiba's request to postpone the application review.
ABWR Renewal (GE-H)	02/14/11	On February 19, 2016, General Electric-Hitachi (GE-H) submitted a revised application to the NRC to renew the ABWR certified design. GE-H has resolved 24 of the 33 open items that the staff has identified to date. The NRC staff is continuing its interactions with GE-H to resolve the remaining issues and expects to issue a schedule letter by late Spring 2016.
APR1400	03/04/15	The NRC staff is currently working to complete the second of six review milestones (issuance of the SER with open items) for the APR1400 DC application review by the end of November 2016. The staff expects to issue the advanced SER with no open

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		items in December 2017 and the final SER in September 2018. The NRC staff projects that the design certification rulemaking will be complete in FY 2019.
Uranium Recovery		
Cameco North Trend Expansion	08/28/07	Applicant requested staff to stop review on North Trend and focus its efforts on review of the Marsland expansion. The SER was completed in July 2013, and work on the draft Environmental Assessment and Section 106 consultations (pursuant to the National Historic Preservation Act) is suspended. The hearing is on hold pending completion of the staff's review. The contentions raised relate to groundwater. The current schedule for remaining milestones is to be determined after the staff has completed its review for the Marsland expansion.
Uranium One Ludeman Expansion	05/16/12	Environmental and safety reviews are in progress. Staff issued a request for additional information for the safety review on January 15, 2013, and for the environmental review on January 19, 2013. Uranium One responded in part to the staff's request for additional information on March 13, 2014, and provided the final required information by June 8, 2015. Uranium One's response to the staff's request for additional information contained several significant changes to the design of the facility. A final decision is expected in December 2017.
Cameco Smith Ranch License Renewal	07/05/12	Environmental and safety reviews are in progress. Staff issued a request for additional information on safety and environmental aspects of the renewal request on May 2, 2013. Cameco completed submittal of its responses to the staff's request for additional information on April 21, 2015. A final decision is expected in August 2017.
Crow Butte Marsland Expansion	10/05/12	Environmental and safety reviews are in progress. The staff issued its request for additional information on the safety report on July 3, 2013. The staff issued its request for additional information on the environmental report on March 22, 2013. Crow Butte completed its responses on November 18, 2015. The Marsland expansion review is in hearing, pending completion of the staff's review. A final decision is expected in November 2016.
AUC Reno Creek New License Application	06/18/13	Environmental and safety reviews are in progress. The staff issued requests for additional information (RAIs) on February 10, 2014, and received responses on June 13, 2014. Since that time, the staff has encountered delays because of competing priorities with operating sites and hearings for other reviews. As a result, staff had to divert resources from the AUC Reno Creek review. A final decision is expected in December 2016.

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Hydro Resources, Inc. (HRI) License Renewal	06/24/13	The sites, located very close to Navajo Nation lands, were licensed in 1998. Construction has not yet commenced. The license renewal review was placed in abeyance on November 13, 2014, after HRI notified NRC, "...it is vital to continue its work with the Navajo Nation Council because we desired to seek consensus on various aspects of our project before action is taken by the NRC on the license renewal." As of February 2016, the license is being transferred from the HRI parent company, Uranium Resources, Inc., to Laramide Resources. The current schedule for remaining milestones is to be determined.
Kennecott Sweetwater License Renewal	11/25/14	The plant has been in stand-by since 1983, waiting on better market conditions to recommence operations. Environmental and safety reviews are in progress. The staff issued RAIs for both reviews in February 2016. The NRC also published in the <i>Federal Register</i> on March 8, 2016, a notice of intent to prepare a supplemental EIS and to conduct scoping activities. A final decision is expected in February 2017.
Uranerz Jane Dough Expansion	08/10/15	Environmental and safety reviews are in progress. The NRC issued RAIs for both reviews in January 2016. A final decision is expected in March 2017.
Strata Kendrick Expansion	01/14/16	Environmental and safety reviews are in progress. The NRC published a <i>Federal Register</i> notice of an opportunity for hearing or petition to intervene on February 29, 2016. A final decision is expected in September 2017.
Lost Creek KM Horizon/East Expansion	TBD	The NRC did not accept the original application because confining units were not sufficiently characterized. Staff received a re-submitted application on February 10, 2016, and is conducting its acceptance review. The NRC plans to coordinate the environmental review with the Bureau of Land Management per a Memorandum of Understanding to minimize any duplication. The NRC will establish a review schedule if it accepts the application.