

Progress on Licensing Applications – Quarter 3

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 is working to address public comments received on its draft second supplement to the final supplemental environmental impact statement (SEIS), which was issued for comment in December 2015. The schedule for a final decision on license renewal is to be determined pending completion of the NRC staff's review and resolution of adjudicatory matters.
Diablo Canyon 1&2	01/21/10	The NRC staff intended to issue both the draft SEIS for public comment and a supplement to its June 2011 safety evaluation report (SER) and planned to complete its review in 2017. However, in June 2016, the NRC suspended the license renewal review at the applicant's request. Pacific Gas and Electric requested the suspension when they announced the decision to cease operations of Diablo Canyon Units 1 and 2, at the end of their current license terms in 2024 and 2025, respectively.
Seabrook 1	07/21/10	The NRC staff continues to work with the applicant to ensure technical issues for closure of the alkali silica reaction open item in the SER 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 NRC 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 complete. The NRC staff issued its final SER in April 2016. A final decision is expected in December 2016.
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 NRC staff issued its final SER in July 2016. The NRC staff plans to issue the final SEIS in September 2016. A final decision is expected in November 2016.
LaSalle 1&2	02/03/15	In February 2016, the NRC staff published the draft SEIS for comment and issued the SER with open items. The NRC staff issued its final SER in June 2016, and plans to

Applicant	Application Accepted for Review	Review status for long-term application reviews
		issue the final SEIS in August 2016. A final decision is expected in November 2016, on schedule.
Waterford	Expected 05/20/16	The review is expected take 25 months unless a hearing is conducted. A final decision, assuming there is no hearing, is expected in April 2018. A public meeting to discuss the scoping process for License Renewal of Waterford Steam Electric Station, Unit 3 was held on June 8, 2016, at the St. Charles Parish Emergency Operation Center, Hahnville, Louisiana. The Scoping and Screening Methodology Audit was completed on June 16, 2016. The audit report is expected to be issued within 90 days of the completion of the audit.
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 NRC 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 NRC 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 NRC 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 NRC staff completed its license renewal review. The NRC staff issued the renewed license on July 8, 2016.
University of Maryland	05/12/00	The license renewal review schedule was extended to allow for the NRC staff's request for and licensee's response to additional information regarding the proposed technical specifications. The NRC staff expects to complete its review by October 31, 2016.
University of Florida	07/18/02	The NRC staff is preparing requests for additional information associated with neutronic and thermal-hydraulic modeling and proposed technical specifications. The NRC 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

Applicant	Application Accepted for Review	Review status for long-term application reviews
		with the licensee on existing requests for additional information. The NRC staff expects to complete its review by October 31, 2016.
Armed Forces Radiobiology Research Institute	06/24/04	The review schedule was extended to allow the licensee to address items related to the proposed technical specifications. The NRC staff expects to complete its review by August 31, 2016.
Aerotest	02/28/05	The NRC staff denied the license renewal application on July 24, 2013. The applicant filed a demand for a hearing on the denial. The hearing demand is being held in abeyance pending the resolution of a separate application to transfer the Aerotest license.
University of Missouri Research Reactor at Columbia	08/31/06	The NRC staff is developing the safety evaluation report, incorporating responses to requests for additional information. The NRC staff expects to complete its review by October 28, 2016.
Purdue University	07/07/08	The NRC staff is preparing requests for additional information associated with the proposed technical specifications. The NRC staff expects to complete its review by September 30, 2016.
U.S. Geological Survey	01/05/09	The licensee is addressing items related to proposed technical specifications. The NRC 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 NRC staff expects to complete its review by December 30, 2016.
University of Massachusetts at Lowell	10/20/15	The review is in progress. The NRC 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 NRC staff issued its final supplemental environmental impact statement (EIS) for the North Anna COL application in February 2010.
Lee 1&2	02/25/08	The NRC staff expects to issue its final SER in August 2016.
Levy County 1&2	10/06/08	The NRC staff issued its final EIS in April 2012. The NRC staff issued its final SER in May 2016. The mandatory hearing occurred on July 28, 2016.
Bell Bend	12/19/08	The NRC staff issued 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.
Turkey Point 6&7	09/04/09	The NRC staff completed its advanced SER by July 14, 2016. The NRC staff expects to complete the final SER in November 2016. In February 2015 the NRC staff issued the draft EIS for the Turkey Point COL application and has addressed most of the comments received on the document. Other Federal agencies provided additional

Applicant	Application Accepted for Review	Review status for long-term application reviews
		substantive comments in early July 2016, and NRC staff are currently working to address those comments. The NRC staff expects to issue its final EIS by October 2016.
Early Site Permit		
Clinch River	TBD	The applicant submitted its application on May 12, 2016, and the application was made publically available in Agencywide Document Access and Management System (ADAMS) on May 26, 2016. The NRC staff anticipates completing its acceptance review and communicating its decision on the acceptability of the application in a letter to the applicant by August 12, 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 5, 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 NRC 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 June 9, 2016, the NRC staff received a letter from Toshiba Corporation (Toshiba, applicant) withdrawing its application to renew the ABWR design certification. By letter dated October 27, 2010, Toshiba had submitted an application to renew the ABWR design certification. At the applicant's request, the review of this application had been postponed because Toshiba's resource focus was on supporting the safe restart of the Japanese nuclear power plants.
ABWR Renewal (GE-H)	02/14/11	On February 19, 2016, GE-H submitted a revised application to the NRC to renew the ABWR certified design. GE-H has resolved 26 of the 36 open items that the NRC 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 during summer 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 NRC staff expects to issue the advanced SER with no open items in December 2017 and the final SER in September 2018. The NRC staff projects that the design certification rulemaking will be complete in fiscal year 2019.
Uranium Recovery		

Applicant	Application Accepted for Review	Review status for long-term application reviews
Cameco North Trend Expansion	08/28/07	The applicant requested the NRC staff to stop its 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 NRC staff's review. The contentions raised relate to groundwater. The current schedule for remaining milestones is to be determined after the NRC staff has completed its review for the Marsland expansion.
Uranium One Ludeman Expansion	05/16/12	Environmental and safety reviews are in progress. NRC staff issued a request for additional information (RAI) for the safety review on January 15, 2013, and for the environmental review on January 19, 2013. Uranium One responded in part to the NRC staff's RAI on March 13, 2014, and provided the final required information by June 8, 2015. Uranium One's response to the NRC staff's RAI contained several significant changes to the design of the facility. NRC staff held a public meeting with Uranium One to discuss resolution of numerous open issues for the environmental and safety reviews on February 8, 2016. A final decision is expected in December 2017.
Cameco Smith Ranch License Renewal	07/05/12	Environmental and safety reviews are in progress. NRC 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 NRC staff's request for additional information on April 21, 2015. NRC staff is working with Cameco to close remaining open issues. A final decision is expected in August 2017.
Crow Butte Marsland Expansion	10/05/12	Environmental and safety reviews are in progress. The Marsland expansion review has an admitted contention that will go to hearing after completion of the NRC staff's review. The NRC staff recently revised the review schedule due to a delay by the applicant in responding to an open issue. The review is currently scheduled to be completed in August 2017.
AUC Reno Creek New License Application	06/18/13	Environmental and safety reviews are in progress. The NRC staff issued RAIs on February 10, 2014, and received responses on June 13, 2014. The draft Supplemental EIS was published on July 7, 2016, for public comment. A final decision is expected in December 2016.

Applicant	Application Accepted for Review	Review status for long-term application reviews
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." In March 2016, NRC approved the transfer of control of the license from the HRI parent company, Uranium Resources, Inc., to Laramide Resources. As of June 2016, the parties have not closed on the transaction. 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 NRC staff issued RAIs for both reviews in February 2016 and NRC staff is currently reviewing the responses to these RAIs received on June 3, 2016. 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 and responses were received in May 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. No hearing request was submitted. A RAI for the environmental review was issued to the applicant on May 27, 2016, and a RAI for the safety review is scheduled to be issued on September 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. NRC staff received a re-submitted application on February 10, 2016, and initiated its acceptance review. On May 18, 2016, NRC completed its acceptance review and informed the licensee that deficiencies relating to the characterization and performance of the confining unit that separates the proposed KM production zone from the underlying aquifer, prevented NRC staff from accepting the application for detailed technical review. The NRC plans to continue to participate in the Bureau of Land Management (BLM) environmental review per the Memorandum of Understanding and the letter of December 4, 2014, designating the BLM as the Lead Agency and the NRC as a Cooperating Agency.