

**Progress on Licensing Applications – Fiscal Year 2016 - Quarter 4**

Applicant	Application Accepted for Review	Review status for long-term application reviews
<b>Reactor License Renewal</b>		
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	In June 2016 the NRC suspended the license renewal review at the applicant's request. Pacific Gas and Electric requested the suspension to allow it to seek approval from the California Public Utilities Commission of an agreement in principle not to pursue license renewal.
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 safety evaluation report (SER) are properly addressed. All other open items have been resolved. The current schedule for remaining milestones is to be determined.
South Texas Project 1&2	01/13/11	The NRC staff continues to work with the applicant to resolve the one remaining open item related to the selective leaching of aluminum bronze. All other open items have been resolved, as documented in the SER with open items issued in October 2016. The current schedule for remaining milestones has been updated to include issuance of the renewed licenses in April 2017.
Grand Gulf 1	12/27/11	The NRC staff issued the final SER in October 2016 and the final SEIS in November 2014. A final decision is expected on schedule in December 2016.
Fermi 2	06/18/14	The NRC staff issued the final SER in July 2016 and the final SEIS in September 2016. A final decision is expected in November 2016.
LaSalle 1&2	02/03/15	The facility operating license was renewed on October 19, 2016, one month ahead of schedule.
Waterford 3	05/31/16	The review is expected to take 25 months unless a hearing is conducted. A final decision, assuming there is no hearing, is expected in April 2018. The deadline for filing hearing requests and petitions for intervention ended on August 1, 2016. The staff did not receive any contentions or requests for hearing. Additionally, no comments were received during the scoping period. The NRC staff's audits regarding the Waterford 3 aging management program were completed on July 29, 2016. The audit report is being finalized, and requests for additional information are being issued to the applicant.

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<b>Research and Test Reactor Renewal</b>		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 17 of the currently 31 operating research and test reactors. Eleven ongoing renewal applications are discussed in more detail below.
Texas A&M University AGN	07/22/97	The reactor is shut down and currently in storage. The license renewal review is suspended until the reactor is relocated and reassembled.
University of Maryland	05/12/00	The licensee requested additional time to respond to staff's request for additional information regarding the proposed technical specifications. The NRC staff expects to complete its review by December 2016.
University of Florida	07/18/02	The licensee requested additional time to respond to staff's request for additional information associated with neutronic and thermal hydraulic modeling and proposed technical specifications. The staff expects to complete its review by December 2016.
Rhode Island Atomic Energy Commission	05/03/04	The licensee requested additional time to respond to the staff's request for additional information regarding items related to radiation protection and the proposed technical specifications. The staff expects to complete its review by December 2016.
Armed Forces Radiobiology Research Institute	06/24/04	The staff has completed its technical review of the license renewal application and expects to issue the renewed license by November 2016.
Aerotest	02/28/05	The NRC staff denied the license renewal application in July 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 licensee requested additional time to respond to the staff's request for additional information regarding technical specifications. The staff is developing the SER and expects to complete its review by December 2016.
Purdue University	07/07/08	The facility operating license was renewed on October 31, 2016.
U.S. Geological Survey	01/05/09	The facility operating license was renewed on October 14, 2016.

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University of Texas at Austin	12/12/11	The licensee requested additional time to respond to the staff's request for additional information regarding neutronics and thermal-hydraulic analyses. The completion of the review will be delayed to 2017.
University of Massachusetts at Lowell	10/20/15	The review is in progress. The NRC staff expects to complete its review by November 2017.
<b>Combined License (COL)</b>		
North Anna 3	01/28/08	The NRC staff issued its advanced SER with no open items in July 2016 and expects to issue its final SER in January 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 issued its final SER in August 2016. The mandatory hearing was held on October 5, 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. On October 20, 2016, the Commission authorized issuance of the COLs. The COLs were issued on October 26, 2016.
Bell Bend	12/19/08	The NRC staff issued its final EIS in April 2016. On August 30, 2016, the Bell Bend COL applicant withdrew its COL application.
Turkey Point 6&7	09/04/09	The NRC staff completed its advanced SER with no open items in July 2016 and 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. The NRC staff issued its final EIS in October 2016.
<b>Early Site Permit</b>		
Clinch River	TBD	The applicant submitted its application on May 12, 2016. The NRC staff completed its acceptance review. TVA submitted a letter on August 11, 2016, proposing to provide supplemental information to the NRC in support of its application. As indicated in an August 19, 2016, letter from NRC to TVA, the application remains in a tendered status.
<b>Design Certification (DC)</b>		
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

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		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.
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. The staff issued a schedule letter to GEH on August 30, 2016, projecting the completion of the staff's safety review in March 2018.
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 March 2017. A letter from NRC to the applicant dated September 27, 2016, provided an update on the staff's review. 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.
<b>Uranium Recovery</b>		
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 the 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. The NRC staff issued a request for additional information, on July 27, 2016, on the overarching Willow Creek License health physics program. Staff is waiting on the licensee's response to these request for additional information to enable the staff to continue their review of the Ludeman health physics program, which is dependent on acceptable responses to these request for additional information. All other non-health physics work on the SER and environmental assessment (EA) is continuing and currently addressing open issues. 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. On May 2, 2016, the staff communicated to the licensee

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		that their response to the request for additional information were incomplete. Staff is awaiting their response. Further delays may require the staff to revise the schedule for the final licensing decision, which is currently expected in October 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 request for additional information open issues. The review is currently scheduled to be completed in August 2017.
AUC Reno Creek New License Application	06/18/13	The staff completed the SER on September 30, 2016. Staff is currently verifying revisions to the application due to request for additional information responses and the environmental review is in progress. The draft Supplemental EIS was published on July 7, 2016, for public comment. The comment period closed September 6, 2016. A final decision is expected in December 2016.
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 October 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 requests for additional information for both reviews in February 2016 and NRC staff is currently reviewing the responses to these requests for additional information received on June 3, 2016. Kennecott will be submitting a revised Environmental Report based on environmental request for additional information. This will impact the EA schedule. The final decision is now expected in August 2017.
Uranerz Jane Dough Expansion	08/10/15	Environmental and safety reviews are in progress. The NRC issued request for additional information 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. Requests for additional information for the

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		environmental review were issued to the applicant on May 27, 2016, and for the safety review on September 14, 2016. A final decision is expected in January 2018.
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.