

# Industry-Led Licensing Modernization Project (LMP) Status

*Effective: 4/19/2018*

The DOE is working with interested stakeholders to support activities related to the advanced reactor Licensing Modernization Project (LMP). This project is being led by Southern Company (on behalf of industry), coordinated with the Nuclear Energy Institute (NEI), and cost-shared by DOE. The project is developing technical non-LWR licensing methods that are technology-inclusive, risk-informed, and performance-based. A key LMP objective is to generate a document for NRC review and endorsement that can be subsequently used by advanced reactor license applicants as regulatory guidance.

During 2017, the LMP wrote four white paper proposals that were reviewed and discussed with NRC staff. The white papers consisted of;

1. Modernization of Technical Requirements for Licensing of Advanced Non-Light Water Reactors - Selection of Licensing Basis Events, Draft Report (ADAMS Accession No. ML17104A254)
2. Modernization of Technical Requirements for Licensing of Advanced Non-Light Water Reactors - Probabilistic Risk Assessment Approach, Draft Report (ADAMS Accession No. ML17158B543)
3. Modernization of Technical Requirements for Licensing of Advanced Non-Light Water Reactors - Safety Classification and Performance Criteria for Structures, Systems, and Components, Draft Report (ADAMS Accession No. ML17290A463)
4. Modernization of Technical Requirements for Licensing of Advanced Non-Light Water Reactors - Risk-Informed and Performance-Based Evaluation of Defense-in-Depth Adequacy, Draft Report (ADAMS Accession No ML17354B174)

The LMP is now engaged in a series of public “working” meetings with industry and NRC staff to consolidate the proposals and NRC feedback into a draft regulatory guide by early-2019. Project documents and public meeting notices can be found at <https://www.nrc.gov/reactors/new-reactors/advanced.html#modern>. As NRC noted in a letter dated February 28, 2018 (ADAMS Accession No. ML18047A149), the LMP represents a major step in helping to modernize the U.S. advanced reactor licensing framework.

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