

Industry Proposal for Implementation of New Methods and Data, Including 2014 Ignition Frequencies

- Background
 - The NRC and industry have had discussions regarding the schedule for integration of new ignition frequencies into licensee Fire PRAs, and the industry has proposed that this be done via the normal maintenance and update process.
 - All licensees transitioning to NFPA 805 support their applications with a Fire PRA that is peer reviewed using NRC-endorsed standards and guidance.
 - This peer review involves, in addition to a thorough technical review, a review of the PRA maintenance procedures against the requirements in the NRC-endorsed ASME/ANS PRA Standard.
 - The results of the peer review, including facts and observations related to the PRA maintenance procedures, are available for NRC review, and are closely evaluated during the NRC NFPA 805 audit.
 - Any new information relevant to the licensee's Fire PRA, including new methods or data, is reviewed using the licensee's process as evaluated in the peer review.
 - New ignition frequencies would be one such element reviewed for update in this standard process.
 - The below proposal applies, in general, to new information relevant to Fire PRA, including the new ignition frequencies.
- ASME/ANS PRA Standard Requirements for PRA Configuration Control
 - Requirements are provided in Section 1-5; relevant portions are provided below.
 - 1-5.2: A PRA Configuration Control Program shall be in place. It shall contain the following key elements: (a) a process for monitoring PRA inputs and collecting new information
 - 1-5.3: The PRA Configuration Control Program shall include a process to monitor changes in the design, operation, maintenance, and industry-wide operational history that could affect the PRA...The program should include monitoring of changes to the PRA technology and industry experience that could change the results of the PRA model.
 - 1-5.4: Changes in PRA inputs or discovery of new information identified pursuant to 1-5.3 shall be evaluated to determine whether such information warrants PRA maintenance or PRA upgrade...Changes that would impact risk-informed decisions should be incorporated as soon as practical.
- Industry proposal for consideration of new information
 - There are two relevant mechanisms by which a licensee's process would call for an update that would involve consideration of the new ignition frequencies.
 - The first is the NFPA 805 license condition calling for a licensee to, prior to transition to self-approval, update their PRA model to reflect the as-built, as-operated plant following NFPA 805 modifications. Licensees can evaluate the impact of the new method and data updates, as part of this process.
 - The second is the licensee's periodic update process, which typically takes place every 3-5 years.
 - Licensees who have not yet received self-approval can evaluate new methods or data as part of the update process called for in the license condition.
 - Licensees who have already fully transitioned to NFPA 805 can conduct this evaluation as part of their next periodic update.
 - In the interim, a licensee's use of data and methods previously used to support NRC acceptance of the 805 LAR for review remains acceptable, and new information can be considered at the appropriate time as described above.