SLR GUIDANCE REVISION FOCUSED TECHNICAL SESSIONS

SEPTEMBER 7TH, 2022 EMMANUEL SAYOC, CAROL MOYER, & JESSICA HAMMOCK



AGENDA DAY 1 OF 2



1 –PROJECT OVERVIEW
PURPOSE, PROCESS, MILESTONES



2 – UPDATES AT A GLANCE GALL-SLR AND SRP-SLR



3 – TECHNICAL SESSIONS

FIRE PROTECTION, STRUCTURES MONITORING, FIRE WATER SYSTEM, AND REACTOR VESSEL STEEL SUPPORTS



4 – COMMENTS AND QUESTIONS
STAFF AND PUBLIC

PROJECT OVERVIEW PURPOSE

GALL-SLR, NUREG-2191

Revise Generic Aging Lessons Learned for Subsequent License Renewal (SLR) that was published May 2017

SRP-SLR, NUREG-2192

Revise Standard Review Plan for Review of Subsequent License Renewal Applications for Nuclear Power Plants that was published May 2017

Technical Basis Document, NUREG-2221

Supplement Technical Bases for Changes in the Subsequent License Renewal Guidance Documents NUREG-2191 and NUREG-2192 that was published Dec 2017

PROJECT OVERVIEW SCOPE

Revised and New Guidance

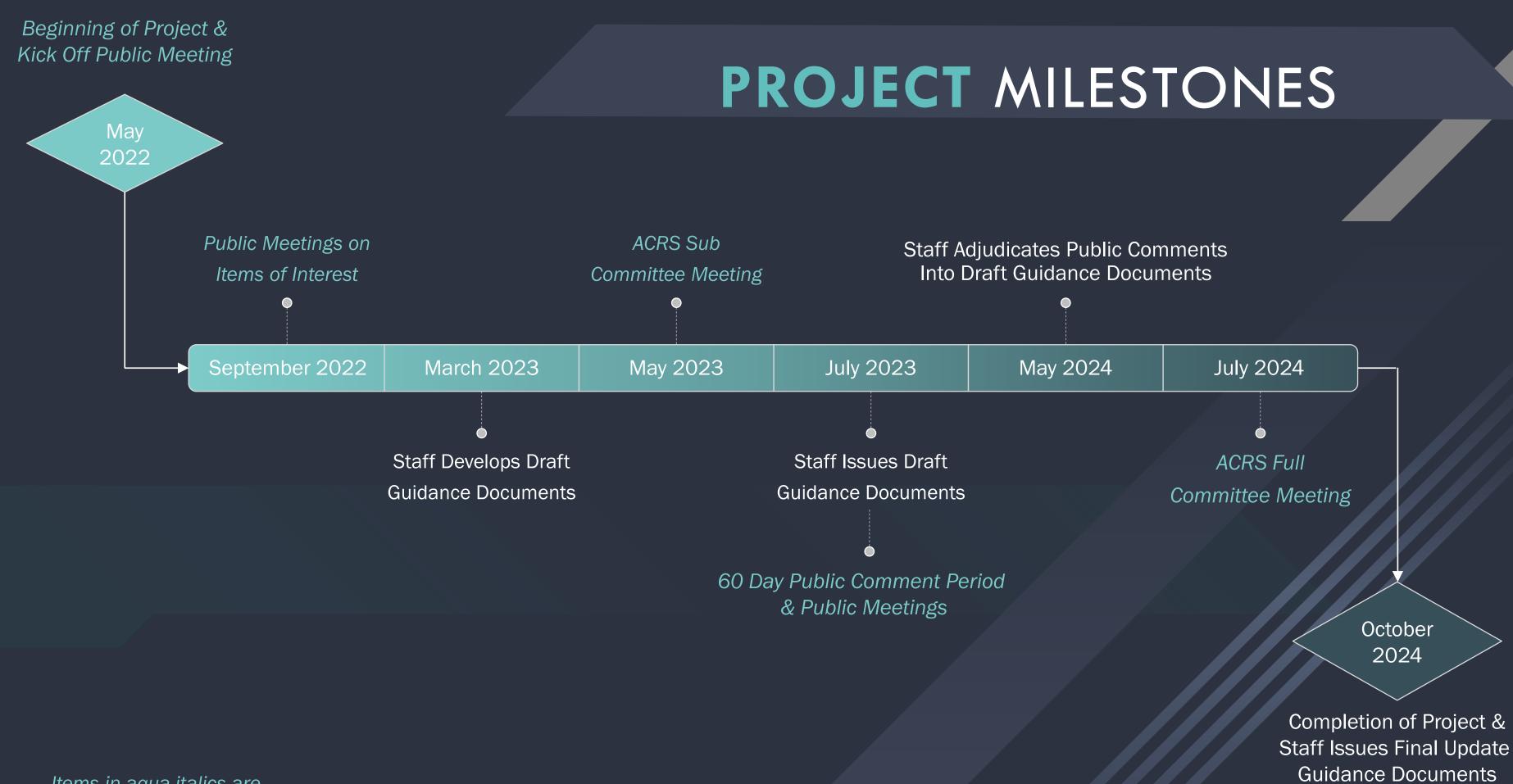
Industry guidance, codes and standards, plant operating experience, results from research reports, and technical revisions (lessons learned) identified from previous SLR reviews

Substantive Corrections & ISGs

Incorporate necessary corrections and all completed SLR-ISGs that have been issued since the initial GALL-SLR documents

NRC Staff and Public Inputs

Changes recommended by NRC Staff and members of the public and industry during multiple public meetings and the formal public comment period



Items in aqua italics are opportunities for public engagement

SCHEDULE SEPTEMBER 7TH

TIME	TOPIC	SPEAKER
0900-0930	Introductions and Public Meeting Admin.	NRC PM
0930-1030	Fire Protection	James Gavula, Leslie Terry, NRC PM
1030-1045	Break	
1045-1145	Aging Management of Wooden Poles	Bryce Lehman, NRC PM
1145-1245	Lunch	
1245-1345	Fire Water System	James Gavula, Leslie Terry, NRC PM
1345-1400	Break	
1400-1515	Reactor Vessel Steel Supports, Loss of Fracture Toughness	David Dijamco, NRC PM
1515-1600	Open Topic Discussion, Public Comments, Daily Summary	NRC Staff, Industry, Public

SCHEDULE SEPTEMBER 8TH

TIME	TOPIC	SPEAKER
0900-0915	Introductions and Public Meeting Admin.	NRC PM
0915-1015	Buried and Underground Piping and Tanks	Brian Allik, James Gavula, NRC PM
1015-1030	Break	
1030-1145	New AMP on High-density Polyethylene (HDPE) and Carbon Fiber Reinforced Polymer (CFRP) Piping Systems	Eric Reichelt, NRC PM
1145-1245	Lunch	
1245-1345	Open Technical Session	NRC Staff, Industry
1345-1430	Public Comments, Meeting Summary/Close out	NRC Staff, Industry, Public

COMMENTS & QUESTIONS

FIRE PROTECTION

SMEs: LESLIE TERRY & JAMES GAVULA



Revise the Program Description and the Scope of Program, Parameters Monitored or Inspected, Detection of Aging Effects, Monitoring and Trending, and Acceptance Criteria program elements to change "fire damper assembly" to "fire damper housing" to clarify that the fire damper housing is the passive component of a fire damper assembly that is subject to aging management. In addition, revise the applicable material for fire damper housings to metallic and remove aging affects associated with elastomers because fire damper housings are typically metallic materials. This change would clarify which components of a fire damper assembly are passive components and are subject to aging management and clarify the material and aging effects for fire damper housings. (Item Number 84)

Revise the Scope of the Program element to add that materials used to secure fire wraps are subject to aging management consistent with EPRI 3002013084, "Long-Term Operations: Subsequent License Renewal Aging Effects for Structures and Structural Components (Structural Tools)." EPRI 3002013084 states that materials used to secure fire wrap is part of the fire wrap. This change would clarify that materials used to secure fire wrap is subject to aging management since it is considered part of the fire wrap which is subject to aging management. (Item Number 85)



Revise the Detection of Aging Effects, Monitoring and Trending, and Acceptance Criteria program elements to add clarification that (1) results of inspections for all aging effects, not just cracking and loss of material, are trended to provide for timely detection of aging effects; (2) fire barriers include walls, ceilings, floors, and other fire barrier materials and that the results of inspections of fire barrier walls, ceilings, and floors and other fire barrier materials are trended to provide for timely detection of aging effects; and (3) separation of seals can also be from ceilings and floors, not just from walls and components. These changes would clarify trending of aging effects, fire barrier components, and where separation of seals can occur. (Item Number 87)

Consistent with AMR item VII.G.A-90, SRP item 3.3-1, 060, the NRC staff is considering revising the Scope of Program and Detection of Aging Effects program elements in AMP XI.S6, "Structures Monitoring," to clarify the existing recommendation that both the Fire Protection and Structures Monitoring programs manage applicable aging effects for reinforced concrete structural fire barriers (walls, ceilings, and floors). AMP XI.M26 currently states it is complemented by AMP XI.S6 but AMP XI.S6 does not refer to AMP XI.M26.



Revise the Program Description to state that AMP XI.M26 is complemented by AMP XI.S5, "Masonry Walls.," AMP XI.M26 currently only states that it is complemented by AMP XI.S6, "Structures Monitoring." that consists of periodic visual inspections by personnel qualified to monitor masonry walls, In addition, add a clarifying statement to the Program Description that states the Structures Monitoring and Fire Protection programs would together manage applicable aging effects for structural fire barriers, and that the Masonry Walls and Fire Protection programs would together manage applicable aging effects for masonry walls that are considered fire barriers.

This statement which is consistent with AMP XI.S5 that addresses masonry walls that are considered fire barriers and AMP XI.S5, AMR item VII.G.A-626, SRP item 3.3-1, 179, and AMR item VII.G.A-90, SRP item 3.3-1, 060 that recommends both the Fire Protection and Masonry Walls programs to manage applicable aging effects.

This change would clarify the existing recommendation that both the Fire Protection and Masonry Walls programs manage applicable aging effects for masonry walls that are considered fire barriers, and that both the Fire Protection and Structures Monitoring programs manage applicable aging effects for structural fire barriers.

(Topic Number 88)

BREAK

AGING MANAGEMENT OF WOODEN POLES

SME: BRYCE LEHMAN



AGING MANAGEMENT OF WOODEN POLES

Add wooden poles as a structural component requiring an aging management review. Based on the review of recent SLRAs, wooden poles were identified as a structural component requiring aging management during the subsequent period of extended operation, in part, due to the service life of wooden poles.

The changes to the SRP-SLR and GALL-SLR Report will provide guidance on how to adequately manage the aging effects in wooden poles and will recommend a further evaluation to help determine the applicable inspection method and frequency of inspection for the wooden poles. (Item Number 24)

LUNCH BREAK

MEETING TO RESUME AT 12:45 PM EST

FIRE WATER SYSTEM

SMEs: LESLIE TERRY & JAMES GAVULA



FIRE WATER SYSTEM

- Revise Table XI.M27-1 in AMP XI.M27 to add footnotes related to flow tests, draining the hydrant barrel, fire pump suction screen inspections, reduced sample size for main drain tests, comparing full flow pressure test results, and inspections of exterior surfaces of insulated fire water storage tanks.
- Revise AMP XI.M27, "Fire Water System," to retitle Column "NFPA 25
 Section" to "Periodicity" in Table XI.M27-1 and add periodicities to column.
- Revise the Detection of Aging Effects program element in AMP XI.M27 to delete fire hydrant hose hydrostatic tests and gasket inspections because these components are typically excluded from aging management review.
- Revise Table C1 in Volume 1 of NUREG-2191 to include treated water as an applicable environment and to state that loss of material due to wear is not applicable in a low flow environment.
- Add information regarding replacing or testing dry sprinklers and fast response sprinklers consistent with NFPA 25.

BREAK

REACTOR VESSEL STEEL SUPPORTS & LOSS OF FRACTURE TOUGHNESS

SME: DAVID DIJAMCO



RV STEEL SUPPORTS FRACTURE TOUGHNESS

- Update the SRP-SLR and the GALL-SLR to finalize the guidance on managing the effects of aging on reactor vessel steel structural support assembly.
- This update includes adding two new SRP-SLR sections (3.5.2.2.2.7 and 3.5.3.2.2.7) and associated new AMR line items in SRP-SLR Table 3.5-1 and GALL-SLR.

COMMENTS & QUESTIONS

OPEN DISCUSSION, PUBLIC COMMENTS, & DAILY SUMMARY