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PREPARING FOR
TOMORROW

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Risk-Informed Approach for Aging Management Programs

Session: Risk-Informing License Renewal - Exploring the
Potential

Presented by:

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Key Regulatory Considerations

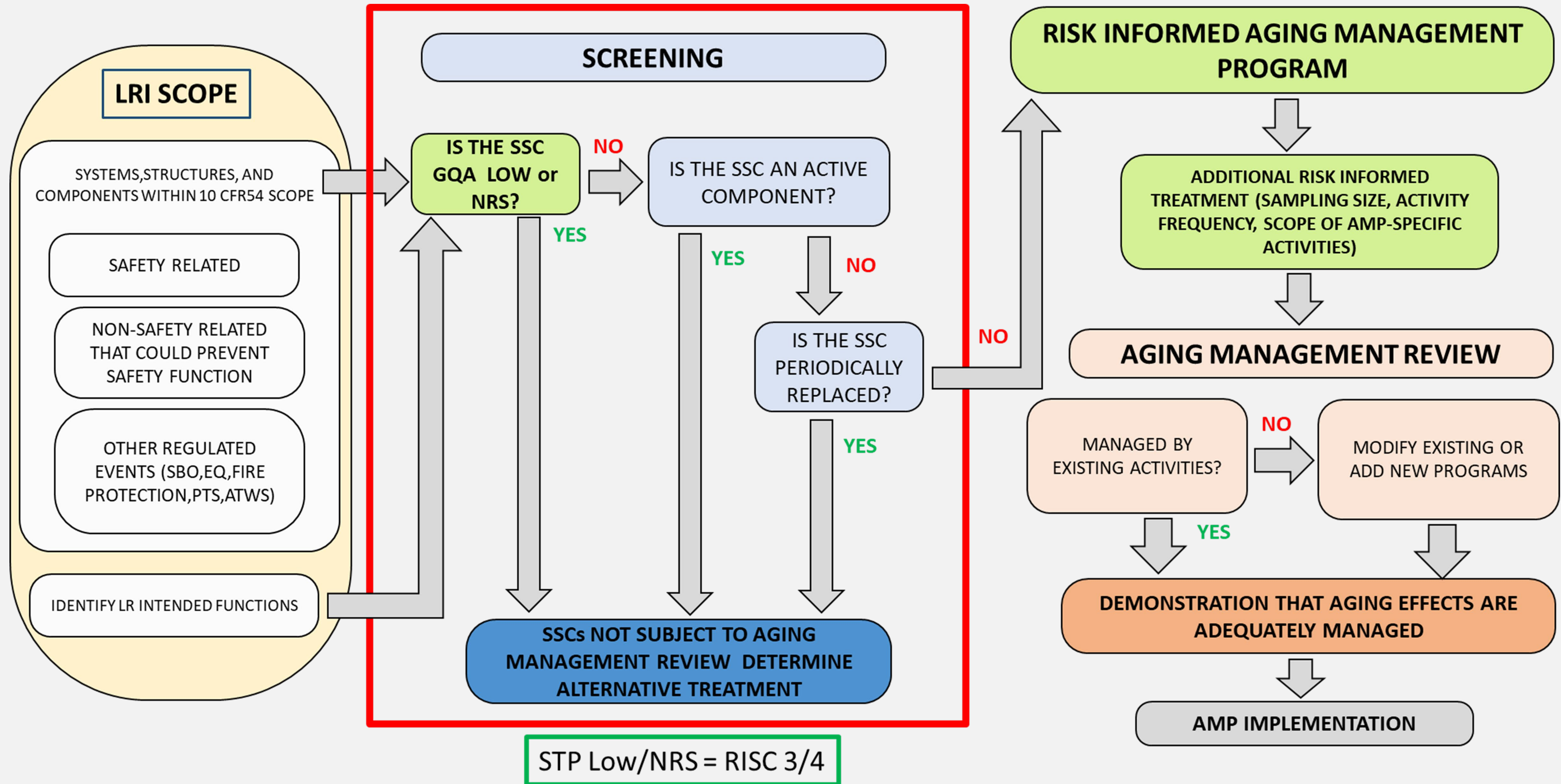
- 10 CFR 50.69 Statement of Considerations, Section II.4.10.8
 - 10 CFR Part 54 was identified as a candidate special treatment requirement
 - *“Part 54 aging management requirements are special treatment requirements in that they provide assurance that SSCs [Systems, Structures, and Components] will continue to meet their licensing basis requirements during the renewed license period.”*
 - *“... that licensees can renew their licenses in accordance with Part 54 by demonstrating that the § 50.69 treatment provides adequate aging management in accordance with § 54.21. The NRC staff suggested that no changes are necessary to Part 54 to implement § 50.69 either before renewing a licensing or after license renewal.”*
- South Texas Project (STP) Exemption from Special Treatment Requirements (precursor to 10 CFR 50.69) has been confirmed to be valid through the period of extended operation (PEO)

Key Station Considerations

- Significant advantage for risk-informing Aging Management Programs (AMPs) based on number of systems categorized by STP
 - Over 100 plant systems categorized
 - Two types of categorization: Graded Quality Assurance (GQA) Risk (nuclear safety); PGR (plant generation risk)
 - Categorization data and supporting information incorporated into station information databases and software programs
- STP categorization: key to optimizing operational effectiveness and efficiency now and during PEO

Key Station Considerations (continued)

- The original License Renewal Implementation (LRI) AMP scope remains the same; however, an alternative treatment will be applied to components that are GQA Low and Non-risk Significant (NRS) (i.e., RISC-3 and RISC-4)
- Many Low/NRS components can be alternatively treated with existing station processes (e.g., Preventive Maintenance, opportunistic inspections, Corrective Action Program)
- Project plan is for each AMP to be evaluated for risk-informed potential, as practical and appropriate



Note: ATWS- Anticipated Transient without SCRAM, CFR- Code of Federal Regulations. EQ- Equipment Qualification, PTS- Pressurized Thermal Shock, SBO- Station Blackout

Benefits

- Safety Benefits: AMP focus is on items of nuclear safety significance
- Operational Benefits: reduction in SSC outage time to perform AMP requirements and improved ALARA [As Low As Reasonably Achievable] performance
- Program effectiveness: reduced station burden for the following AMPs (all AMPs to be evaluated):
 - One-time Inspections
 - Aluminum-Bronze Selective Seaching
 - Internal Surfaces Inspection
 - Open-Cycle Cooling Water