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New Reactor Security

Design Certification and Combined License Application Reviews

October 30, 2008

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- Division of Security Policy
- Reactor Security Rulemaking and Licensing Branch
- Technical Lead for Review of Security for Certification and Licensing
  - Support for new reactors - NRO
  - Support for operating reactors – NRR
- Technical Lead for Security Rulemaking and Policies for Reactors
  - Revising 10 CFR 73 sections related to new reactors (73.54, 73.55, 56, 58, Appendix B &C, etc.)

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Design Certifications

- Design Certification Reviews - ongoing
  - AP1000 Amendment
  - ESBWR
  - USEPR
  - USAPWR
- Certification/Licensing Related Working Groups
  - Design Center Work Group
  - NEI New Plant Security Task Force
  - NEI Security Working Group
  - NEI New Plant Working Group
- NRC/DHS - Consultation

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COL Reviews

- Defer Security Technical Reviews
  - March 2008 – Decision to defer all COLA reviews
  - Begin technical reviews of COLA on April 1, 2009
- Reasons for Deferring Reviews
  - Commission's priority to complete revising security rulemaking and guidance
  - Goal - finalize and issue revised security rule by March 2009
  - Priority focus on design certification reviews
- Communications
  - Informed individual applicants by NRO DNRL
  - Working Groups (DCWG, NPSTF)/DHS
  - Task schedule adjusted in EPM
  - Informed ACRS of impact on first round interactions

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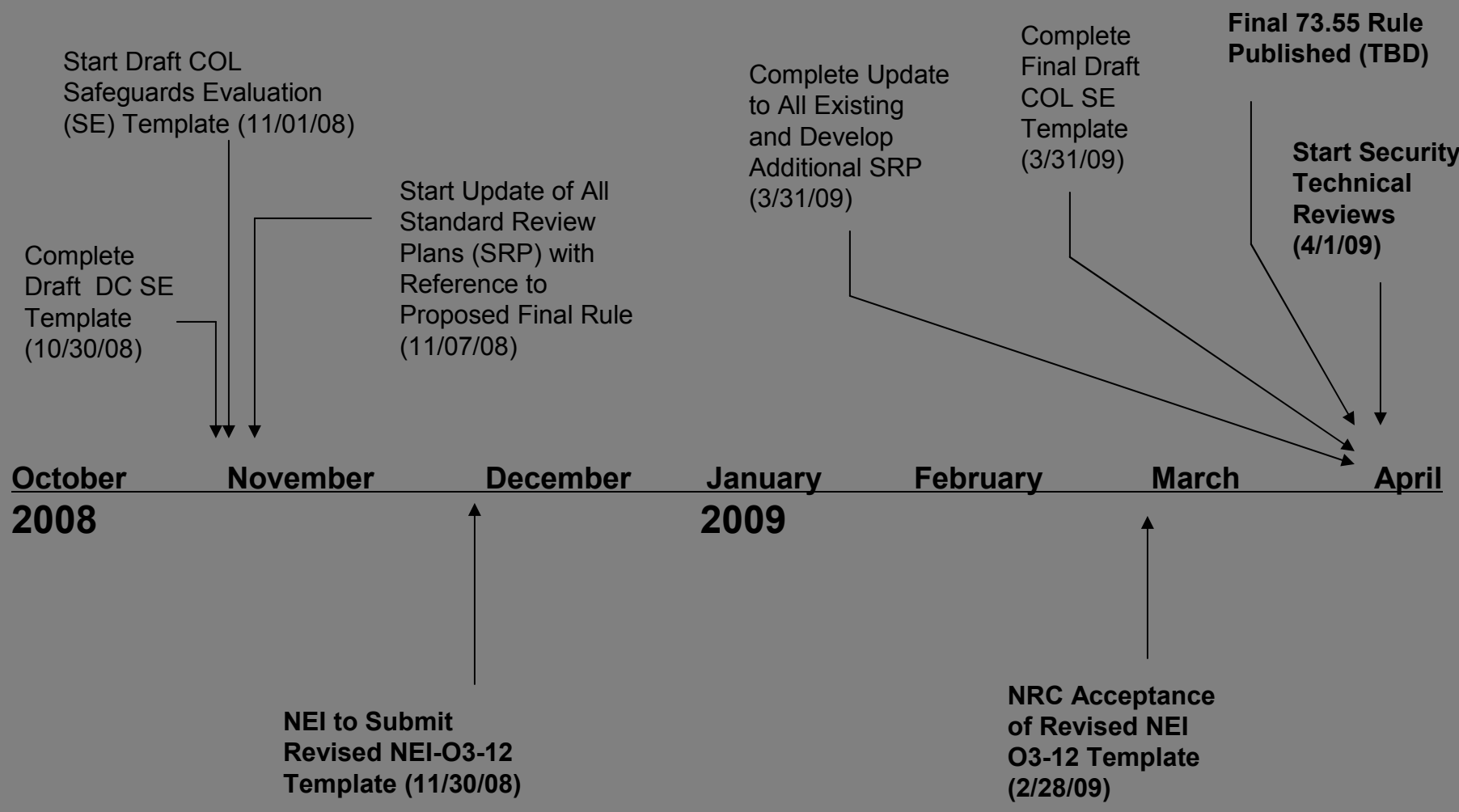
Preparing for COLA Reviews

- Streamlining Activities
  - Prepare Safety Evaluation templates for documenting reviews – DC and COLA
  - Revise NEI 03-12 (COLA)
    - Format and content guidance
    - Standardize applications to the extent possible
    - Site specifics information - unique
  - Update Standard Review Plans (address new rule)

Schedule of Planned Activities Prior to Starting Security Review of COLAs (DRAFT)



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Physical Security Hardware ITAAC

- Staff Guidance for DC and COLA
  - Standard Review Plan (SRP) 14.3.12, Physical Security Hardware – Inspections, Tests, Analyses, and Acceptance Criteria (March 2007)
- Types of Physical Security Hardware
  - Detection systems
  - Central/Secondary Alarm Station
  - Communications
  - Physical barriers
  - Illumination
  - Secondary power

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Physical Security Hardware ITAAC

- Alarm systems
- Engineered weapon systems
- Engineered delay systems

- NUREG-0800, SRP 14.3.12 describes 16 specific ITAAC for the physical security hardware (DC or COLA)

- ITAAC in the DC are to be described in the Tier I and supported in Tier II (Chapter 13 and 14 and referenced technical reports)

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Physical Security Hardware ITAAC

- Site specific ITAAC and those outside the scope of DC are to be described in COLA
- Draft Regulatory Guide DG-2025, “Physical Security Hardware Inspection, Testing, Analyses, and Acceptance Criteria” – in the process to be issued for comments
- Security-related ITAAC closure and inspection procedures - development and planning is ongoing (NSIR/DSO)