



**U.S.NRC**

UNITED STATES NUCLEAR REGULATORY COMMISSION

*Protecting People and the Environment*

# Overview of a Generic Combined License

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# Presentation Overview

- Background
- License Sections
  - Findings
  - Requirements
- ITAAC
- Fuel Loading
- Testing





# Background of Combined License

- April 1989- 10 CFR Part 52 issued
- April 2000- SECY-00-0092 paper titled “Combined License Review Process” proposed a generic combined license (ML003680823)
- September 2000- Commission issued Staff Requirements Memorandum in response (ML003747332)



# Staff Requirements Memorandum

- The Commission has approved the form and content of the generic COL
- The staff should:
  - remain open to improvements or alternative approaches that our stakeholders may suggest
  - ensure that any plant-specific limitations or conditions are added



# Generic Combined License

- 2 major sections, each with multiple subsections
- Section 1 describes Commission findings
- Section 2 describes the license requirements based on these findings



# Section 1

## Commission Findings

- 9 subsections (A-I) that describe specific findings
- Typical findings in NRC Part 50 license



## Section 2

# License Requirements

- 11 subsections (A-K) that describe specific requirements
- Subsection C states that “The license is subject to... COL inspections, tests, analyses, and acceptance criteria (ITAAC) contained in Appendix A of this license”



## Section 2

# License Requirements (cont'd)

- Subsection D, Part 1- Nuclear Fuel Loading
  - All ITAAC acceptance criteria met
  - Authorized to load fuel and perform pre-critical testing after 10 CFR 52.103(g) finding







## Section 2

### License Requirements (cont'd)

- Subsection D, Part 2- Low Power Testing
  - Upon NRC approval, perform low-power testing and operate the facility at steady-state not to exceed 5% power
- Subsection D, Part 3- Maximum Power Testing
  - Upon NRC approval, perform power ascension testing and operate the facility at steady-state not to exceed 100% power



## Section 2

### License Requirements (cont'd)

- Subsection G – The licensee shall fully implement and maintain ... physical security, guard training, and qualifications, safeguards contingency plans, and all amendments when nuclear fuel is on site and until it is removed



## Section 2

# License Requirements (cont'd)

- Subsection K- “The license is effective as of the date of issuance and shall expire at midnight on [the date 40 years from the date of issuance].”
- EPA 2005 and Part 52 revision changed to 40 years from 52.103(g) finding (10 CFR 52.104)





# Appendices to License

- Appendix A- COL ITAAC
- Appendix B- Technical Specification [plant specific]
- Appendix C- Environmental Protection Plan
- Appendix D- Antitrust Conditions
  - EPA 2005 removed Antitrust Conditions



# Presentation Conclusion

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Harris Nuclear Power Plant