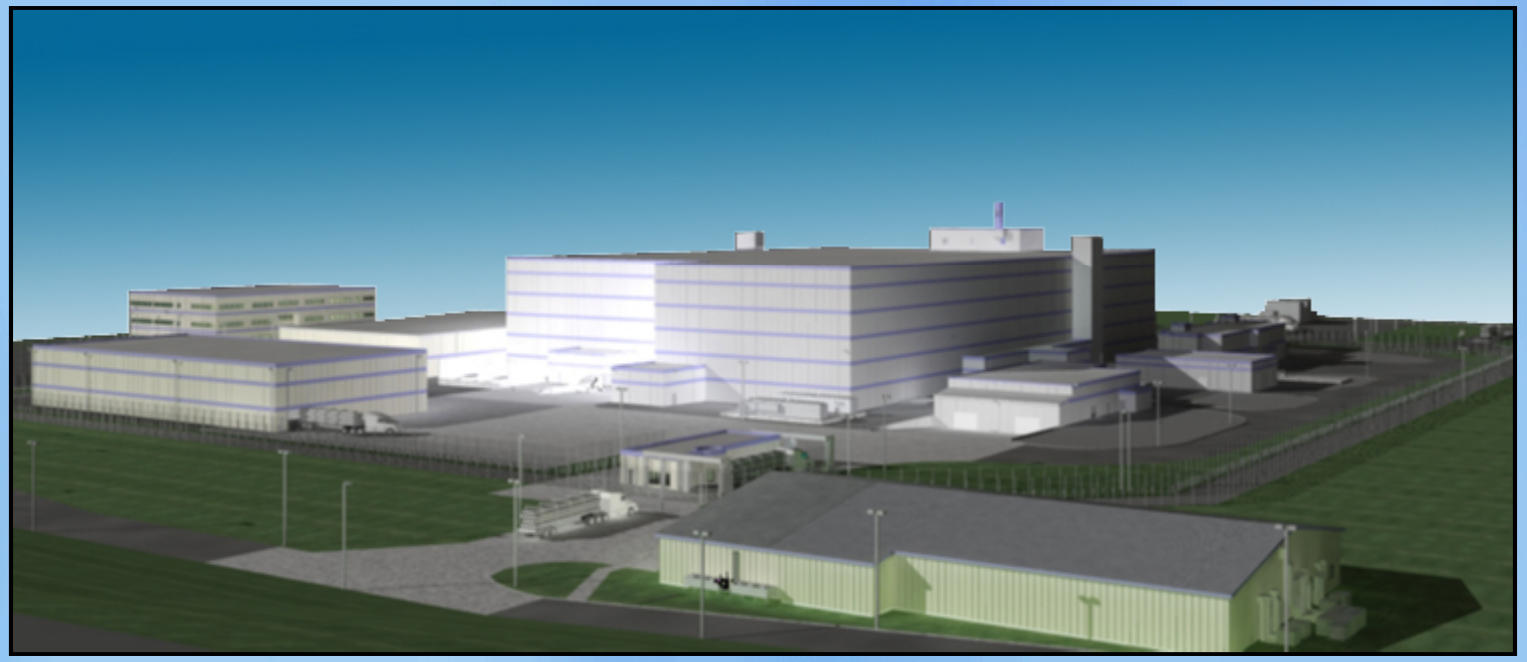
MOX FUEL FABRICATION FACILITY

NNSA National Nuclear Security Administration

Mixed Oxide Fuel Fabrication Facility



2009 LA/ISAS Update
November 12, 2009

Enclosure 3

Global

- Revision date – October 2009
- Reformatted and renumbered
- Tables and figures
  - Removed if not called out in text
  - Reordered consistent with order they are referred to in text
- Removed blank pages, separator pages

License Application

- Chapter 1, *General Information*
  - Minor clarifications and updates
- Chapters 2, *Financial Qualifications*
  - No changes
- Chapters 3, *Protection of Classified Matter*
  - No changes

License Application

- Chapter 4, *Organization and Administration*
  - Alignment with Construction Authorization Request (CAR)
  - Current operations organization
  - Criticality RAIs
  - Minor clarifications and updates

License Application

- Chapter 5, *Safety Program*
  - ISA RAIs
  - Setpoint methodology (RAIs)
  - Management measures (nuclear safety evaluations, RAIs)

License Application

- Chapter 6, *Nuclear Safety Criticality*
  - Clarifications
  - Criticality RAIs
- Chapter 7, *Fire Protection*
  - Clarifications
  - Design basis section
  - Fire protection RAIs

License Application

- Chapter 8, *Chemical Safety*
  - Chemical safety RAIs
  - Supporting document revisions
- Chapter 9, *Radiation Safety*
  - RAIs
  - Minor clarifications
- Chapter 10, *Environmental Protection*
  - RAIs
  - Minor clarifications

License Application

- Chapter 11, *Plant Systems*
  - 11.0, *Plant Systems*
    - Included discussion of baseline design criteria (previously in Chapter 5)
  - 11.1, *MOX Process Description*
    - Included new Table 11-2 to cross reference codes and standards for IROFS in individual units
    - Revised level of detail (ISAS level of detail not changed)
    - Individual units reference Table 11-2 for IROFS design basis codes and standards
    - Minor changes and clarifications

License Application

- Chapter 11, *Plant Systems (con't)*
  - 11.2, *AP Process Systems*
    - Included new Table 11.2-4 to cross reference codes and standards for IROFS in individual units
    - Revised level of detail
    - Individual units reference Table 11.2-4 for IROFS design basis codes and standards
    - Minor changes and clarifications
  - 11.3, *HVAC and Confinement Systems*
    - RAI response driven changes
    - Included design basis section
    - Level of detail
    - Minor changes and clarifications

License Application

- Chapter 11, *Plant Systems (con't)*
  - 11.4, *Electrical Systems*; 11.5, *I&C Systems*
    - RAI response driven changes
    - Non-IROFS level of detail
    - Included design basis section
    - Minor changes and clarifications
  - 11.6, *Material Handling Equipment*
    - Included design basis section
  - 11.7, *Fluid Transport Systems*
    - Non-IROFS level of detail
    - Included design basis section

License Application

- Chapter 11, *Plant Systems (con't)*
  - 11.8, *Fluid Systems*
    - Non-IROFS level of detail
    - Included design basis section
    - Minor changes and clarifications
  - 11.9, *Heavy Lift Cranes*
    - No changes
  - 11.10, *Laboratory*
    - Non-IROFS level of detail
    - Included references to design basis
    - Minor changes and clarifications

License Application

- Chapter 12 *Human Factors Engineering*
  - RAI response driven changes
  - Minor changes and clarifications
- Chapters 13 *Safeguards and Security*, 14 *Emergency Management*
  - No changes
- Chapter 15 *Management Measures*
  - Rewritten consistent with RAIs
- Chapter 16 *Authorizations and Exemptions*
  - Moved exemption requests
  - Moved and enhanced discussion of changes to license application

Integrated Safety Analysis Summary

- Chapter 1, *Overview*
  - Minor editorial changes
- Chapter 2, *General Site Description*
  - Minor clarifications and updates
- Chapter 3, *Facility Description*
  - Minor clarifications and updates

Integrated Safety Analysis Summary

- Chapter 4, *Process and System Descriptions*
  - Minor project changes and clarifications
  - RAI responses
- Chapter 5, *General ISA Method, ISA Team, & ISA Results*
  - RAI responses and consistency with LA Chapter 5 changes
  - RAI responses
  - Minor project changes and clarifications

Summary

- Majority of changes to LA and ISAS due to RAI responses
- Reformatting based on electronic submittal
- Level of detail changes in LA Chapter 11
- Explicit statements of design basis