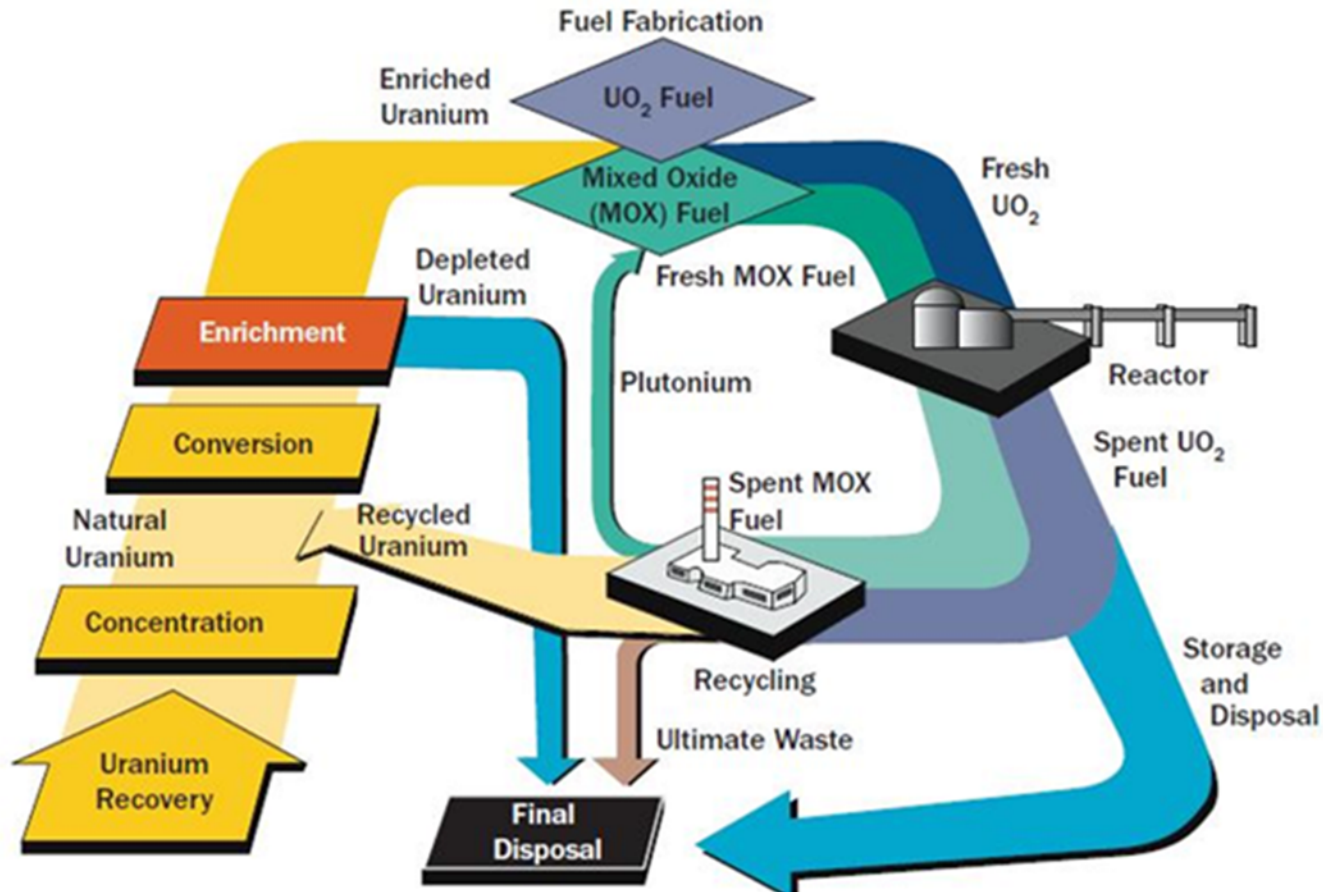


# Fuel Fabrication Facility Licensing

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# Nuclear Fuel Cycle



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# Regulations (10 CFR)

- General Requirements for all Licensees
  - Part 19 – Notices, Instructions and Reports to Workers
  - Part 20 – Standards for Protection Against Radiation
  - Part 21 – Reporting Defects and Noncompliance
- Requirements for Special Nuclear Material (SNM)
  - Part 70 – Domestic Licensing of SNM
    - Note: Subpart D (especially 70.21 and 70.22)
    - Note: Subpart H (especially 70.64 and 70.65)
  - Part 71 – Packaging and Transportation of RAM
  - Part 73 – Physical Protection of Plants and Materials
  - Part 74 – Material Control and Accounting of SNM

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# Licensing Guidance

- NUREG-1520, Standard Review Plan for a License Application for a Fuel Cycle Facility  
(<http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1520/>)
- NUREG-1748, Environmental Review Guidance for Licensing Actions Associated with NMSS Programs  
(<http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1748/>)
- For Planning Purposes:
  - Environmental Review (EA or EIS): 2 – 3 years for breaking ground on new facility, and
  - Safety Review (SER): 1.5 – 2 years.

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# Transportation

- For fresh fuel, a Type A(F) package is needed.
- Certificate of Compliance lists authorized contents.
  - Work with manufacturer if changes needed.
- See General License in 10 CFR 71.17.
  - Note need for NRC-approved quality assurance program.
- Regulatory Guide 7.10, Establishing QA Programs  
(<http://pbadupws.nrc.gov/docs/ML1406/ML14064A505.pdf>)
- For Planning Purposes:
  - QA Program Approval: 2 months
  - Package Design Approval: up to 2 years