

NRC Export/Import Licensing 10 CFR Part 110

Lauren Mayros International Policy Analyst Export Controls and Nonproliferation Branch Office of International Programs

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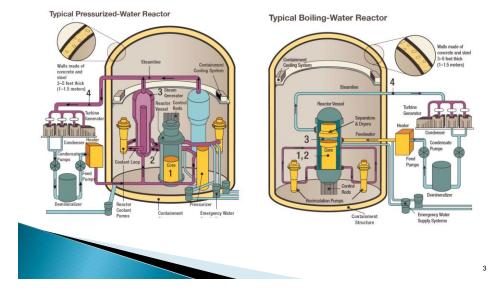
NRC Jurisdiction

Legal Basis:

- Atomic Energy Act of 1954
- Nuclear Non-Proliferation Act of 1978
- Treaties, Conventions and Agreements
- <u>Exports</u>: reactors; fuel cycle facilities; components; nuclear grade graphite for nuclear end use; deuterium; source, special nuclear and byproduct materials including when contained in spent fuel or radioactive waste
- <u>Imports</u>: reactors; fuel cycle facilities; source, special nuclear and byproduct materials including when contained in spent fuel or radioactive waste



Nuclear Reactors & Especially Designed or Prepared Equipment





If Subject to NRC Jurisdiction

- All exports and imports of NRC-controlled commodities (materials and equipment) must be authorized by either:
 - An NRC general export or import license or
 - An NRC specific export or import license or
 - An exemption from NRC requirements for a specific or a general license which may be granted in response to an application requesting an exemption or issued on NRC's initiative





NRC General Licenses

- Are issued in 10 CFR 110 after rulemaking and coordination with the Executive Branch
- Are not exemptions (or NLRs)
- Authorize exports (10 CFR 110.21-110.26) of small quantities of uranium, plutonium, tritium and minor reactor components to specified countries
- Authorize imports (10 CFR 110.27) of major reactor components, source, special nuclear and/or byproduct materials to authorized recipients
- Require record keeping and, for certain exports, filing <u>annual reports</u> to the NRC





NRC General Licenses

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 Do not authorize exports to embargoed countries, i.e., a specific license is required for exports to:

Cuba	Iran	Iraq	North Korea
Syria	Sudan		

 Authorize limited exports to restricted destinations – a specific license may be required:

Afghanistan	Andorra	Angola	Burma
Djibouti	India	Israel	Libya
Pakistan	South Sudan		





NRC Specific Licenses – Review Process

- > All NRC Form 7 applications made public in ADAMS
- Some require <u>Federal Register</u> notices
- Interested parties have up to ~30 days to respond
- Processing fee ranging from \$1,300 to \$17,700) depends on level of review required (proliferation significance of commodity)
 - Most require interacting with foreign governments and some form of NRC Program Office review
 - Some require review by interested Executive Branch agencies, coordinated by Department of State
 - Some require review and approval by Commissioners



Criteria for "Major" Exports (XSNM, XSOU, XR)

- Agreement for Cooperation (123 Agreement)
- Full-scope IAEA safeguards in recipient non-nuclear weapon states (NNWS)
- USG must obtain assurances from the foreign government on case-by-case basis that material or equipment will be made subject to 123 Agreement with respect to:
 - No nuclear explosive use or R&D on any nuclear explosive device
 - Adequate physical security will be maintained
 - No retransfer or alteration in form (reprocessing) without prior USG consent
- Not inimical to common defense and security
- For XR, not an unreasonable risk to the public health and safety of the U.S.





Criteria for "Minor" Exports (XCOM, XMAT)

- USG must obtain assurances from the foreign government on case-by-case basis that:
 - IAEA (full-scope) safeguards will apply in NNWS
 - No nuclear explosive use or R&D on such device
 - No retransfer without prior USG consent
- Not inimical to common defense and security

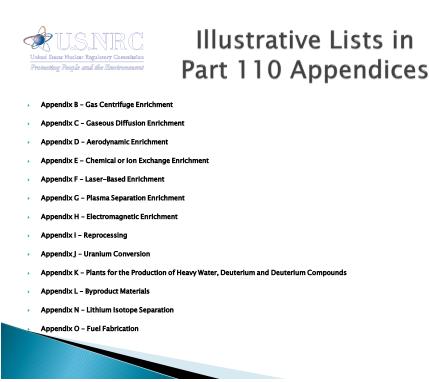




Part 110 Appendix A Illustrative List of Reactor Equipment

- Especially Designed or Prepared Equipment
- Definition of "Nuclear Reactor:"
 - $\,\circ\,$ Items within or attached directly to the reactor vessel
 - Equipment which controls the level of power in the core
 - Components which normally contain or come in direct with or control the primary coolant of the reactor core







Part 110 Appendix P Radioactive Materials

- In 2005, Part 110 was amended to address the IAEA Code of Conduct on the Safety and Security of Radioactive Sources and its Import/ Export Guidance
- 16 radionuclides previously authorized for export or import under general license became subject to specific licensing
- In 2010, Part 110 was amended to allow U.S. parties to import under general license if they are appropriately authorized domestically



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Part 110 Appendix P Radioactive Materials

 If a device or a source for use in a device contains Appendix P radionuclides (Am-241, Am-241/Be, Cf-252, Cm-244, Co-60, Cs-137, Gd-153, Ir-192, Pu-238, Pu-239/Be, Pm-147, Ra-226, Se-75, Sr-90, Tm-170 or Yb-169) a specific NRC export license may be required





To contact the NRC Office of International Programs

301-415-1780

THANK YOU!!!

Lauren Mayros 301-415-2775 Lauren.Mayros@nrc.gov



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