



## Implementation of Export Controls by U.S. NRC

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## Overview

- NRC's Jurisdiction
- Coordination with Other Federal Agencies
- Export Licensing Criteria
- 2017 Export Statistics
- Challenges
- Contact Information

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## NRC Export Jurisdiction

- **Reactor equipment**, fuel cycle facilities, components;
- **Source, special nuclear** and byproduct materials including when contained in spent fuel or **radioactive waste**
- Moderator materials - Nuclear grade graphite for nuclear end use and deuterium;

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USNRC **RIC** 2018  
United States Nuclear Regulatory Commission  
 Protecting People and the Environment

## Export Licensing Coordination

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## Export Licensing Criteria

- Peaceful use
- Application of IAEA safeguards
- 123 agreement for cooperation
- Adequate physical protection
- Prior consent for retransfer and alteration in form
- Not inimical to common defense and security

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## Criteria for Executive Branch and NRC Commissioner Review of Exports

- Executive Branch Review required for exports of:
  - Production or utilization facilities
  - More than one effective kilogram of high enriched uranium
  - Commodities involving assistance to advanced reactors
  - Any commodity to an embargoed or restricted destination
  - Commodities raising significant policy issues
- NRC Commissioner Review required for exports of:
  - Production or utilization facilities
  - More than five effective kilograms of high enriched uranium
  - Commodities involving assistance to advanced reactors
  - Certain quantities of source or special nuclear material to an embargoed or restricted destination for the first time
  - Commodities raising significant policy issues

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## Active Export Licenses (12/31/17)

Type of Export	Number of Active Licenses	Countries
Low Level Radioactive Waste (Import and Export)	9	Canada, Germany, Mexico, United Kingdom
Source Material for Nuclear and Non-Nuclear End Use	36	Euratom, Canada, Brazil, Singapore, Mexico, Vietnam, China, Kazakhstan, Japan, Thailand, Russia
Special Nuclear Material	61	Euratom, Taiwan, Switzerland, Mexico, Canada, South Africa, Japan, Brazil, Republic of Korea, Indonesia, United Arab Emirates
Utilization Facilities Including Major Equipment	6	China, Thailand, United Arab Emirates, Taiwan, Slovenia
Minor Components	70	Euratom, Russia, China, Mexico, Republic of Korea, Norway, Bangladesh, Ukraine, Taiwan, Japan, South Africa, United Arab Emirates, Argentina, Bulgaria

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## 2017 Executive Branch and Commission Level Reviews

2017 Executive Branch Level Reviews Completed

Type of License	Number Completed	Countries
Source Material	1	China
Special Nuclear Material	6	Republic of Korea, Belgium, Japan, China, Canada
Low Level Radioactive Waste	1	Canada

2017 NRC Commission Level Approved Exports

Type of Export License	Number Completed	Country
Special Nuclear Material	5	Belgium, Japan, China, Canada

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## Export Licensing Challenges

- Complex transactions
  - Large numbers of intermediate and/or ultimate consignees
  - Timeliness of Foreign Government responses to USG requests for assurances
  - Unique policy issues
- Applicant
  - Contracts with foreign entities not in place
  - Details for End Use

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**NRC Export/Import and Contact Information**

- Public Website <https://www.nrc.gov/about-nrc/ip/export-import.html>
- Contact Licensing Officers at [IPresources@nrc.gov](mailto:IPresources@nrc.gov)
- My Contact Information

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