

## Codebook for National Radiological Source Security State Level Database 12 October 2018 version 1.2

*To better understand what the Stimson Center's State Level Database shows, please reference this Codebook. This Codebook outlines the 28 variables used to develop the database, what they mean, and any coding rules related to each variable. Additionally, this document includes information on the Stimson Center's coding strategy and search strategy to find and analyzed the laws and regulations contained in the database. Should you have questions about the Codebook or the database, please contact Dr. Richard T. Cupitt, Director of the Partnerships in Proliferation Prevention Program: [rcupitt@stimson.org](mailto:rcupitt@stimson.org).*

### Variable 001

Variable Name: State Name

Variable Description: UN Member State Names

Value Type: Alpha

Variable Values and Labels: e.g., Afghanistan .... Zimbabwe

Source: <https://unstats.un.org/unsd/methodology/m49/>

Special Coding Rules:

### Variable 002

Variable Name: State Code

Variable Description: UN Member State M49 ISO codes

Value Type: Numeric

Variable Values and Labels: 4-894

Source: <https://unstats.un.org/unsd/methodology/m49/>

Special Coding Rules:

### Variable 003

Variable Name: State Rad Security Regulatory Bodies

Variable Description: If the State has one or more bodies that exercise regulatory jurisdiction over radioactive source security

Values: Numeric

Variable Values and Labels: 0 = No body; 1 = Has one or more regulatory bodies

Source(s): Security Measures Database

Special Coding Rules: Aggregate all information on all the country's radiological security measures.

## Variable 004

Variable Name: Regulatory Bodies Names

Variable Description: The name(s) of the government bodies in the measures that exercise regulatory jurisdiction over offenses and violations

Values: Alpha

Variable Values and Labels:

Source(s): Security Measures Database

Special Coding Rules: The regulatory bodies need not be a specialized nuclear regulatory authority. If the measure lists a regulatory body within a Ministry or higher bureaucratic body, link to the agency, not the higher body. Include a URL to each body in parentheses or list "URL\_unavailable" or "URL under construction." Don't name a specific entity? Enter "Uncertain"

## Variable 005

Variable Name: National IAEA POC

Variable Description: If the State has an IAEA national POC

Values: Numeric

Variable Values and Labels: 0 = No PO; 1 = Has one or more POCs

Source(s): This information was derived from an IAEA document that was updated in May 2018. The document can be found here: <https://www-ns.iaea.org/downloads/rw/code-conduct/reg-auth-directory.pdf>

Special Coding Rules:

## Variable 006

Variable Name: Number of Regulatory Bodies

Variable Description: The number of government bodies in the measures that exercise regulatory jurisdiction over offenses and violations identified in the measure or linked to another measure?

Values: Numeric

Variable Values and Labels: 0, 1, 2, ...

Source(s): Security Measures Database

Special Coding Rules:

## Variable 007

Variable Name: Regulatory Body Type(s)

Variable Description: The type(s) of the government bodies in the measures that exercise regulatory jurisdiction over offenses and violations

Value Type: Numeric

Variable Values and Labels: 0 = No body; 1 = Nuclear Regulatory Authority; 2 = Other Authority; 3 = Both 1 and 2

Source(s): Security Measures Database

Special Coding Rules:

## Variable 008

Variable Name: Code of Conduct Notification on Pursuant to GC(47)/R ES17.B

Variable Description:

Value Type: Numeric

Variable Values and Labels: 0=No; 1=Yes; '.'=Not on IAEA records

Source(s):

Special Coding Rules:

## Variable 009

Variable Name: Supplementary Guidance on the Import and Export of Radioactive Sources Notification Pursuant to GC(48)/RES/10.D

Variable Description:

Value Type: Numeric

Variable Values and Labels: 0=No; 1=Yes; '.'=Not on IAEA records

Source(s):

Special Coding Rules:

## Variable 010

Variable Name: Supplementary Guidance on Import and Export of Radioactive Sources Contact Point Designated

Variable Description:

Value Type: Numeric

Variable Values and Labels: 0=No; 1=Yes; '.'=Not on IAEA records

Source(s):

Special Coding Rules:

## Variable 011

Variable Name: Supplementary Guidance on the Import and Export of Radioactive Sources Response to Questionnaire

Variable Description:

Value Type: Numeric

Variable Values and Labels: 0=No; 1=Yes; '.'=Not on IAEA records

Source(s):

Special Coding Rules:

## Variable 012

Variable Name: Supplementary Guidance on the Management of Disused Radioactive Sources Notification Pursuant to GC(61)/RES/8.25

Variable Description:

Value Type: Numeric

Variable Values and Labels: 0=No; 1=Yes; '.'=Not on IAEA records

Source(s):

Special Coding Rules:

## Variable 013

Variable Name: National Registry of Sources

Variable Description: Does the measure establish a national registry of radioactive sources

Value Type: Numeric

Variable Values and Labels: 1 = Has a national registry; 0 = Does not have a national registry;

Source(s): Security Measures Database

Special Coding Rules: The national registry refers only to a national registry of radioactive sources that indicates who has controls the source, the nature of the source, and where it is located (including if it's mobile). It does not refer to a HS code or appearance on a trade control list of similar listing. Define – get official IAEA definition. Need specific reference to sources. It needs to be explicit.

## Variable 014

Variable Name: List of Controlled Sources

Variable Description: Does the State have a list of controlled sources for security purposes.

Value Type: Numeric

Variable Values and Labels: 1 = Has or references a list; 0 = Does not have or reference a list;

Source(s): Security Measures Database

Special Coding Rules: Need specific reference to sources. It needs to be explicit.

## Variable 015

Variable Name: Requirements to Secure Rad Sources

Variable Description: State has requirements for securing radioactive sources by stakeholders, e.g., authorized holders must take steps to prevent unauthorized access to sources.

Value Type: Numeric

Variable Values and Labels: 1 = Requires security of radioactive sources; 0 = No requirements

Source(s): Security Measures Database

Special Coding Rules: 1 = If the measure creates any security requirements on stakeholders, even if relatively general; 0 = No security requirements on stakeholders

## Variable 016

Variable Name: National Authorization or Licensing System

Variable Description: State has established a system for authorizing activities (e.g. issuing licenses) to secure radioactive sources.

Value Type: Numeric

Variable Values and Labels: 1 = Has established a system; 0 = Has no established system

Source(s): Security Measures Database

Special Coding Rules: 1 = If the measure creates any security requirements on stakeholders, even if relatively general; 0 = No security requirements on stakeholders

## Variable 017

Variable Name: Inspection Authority

Variable Description: State has authority to inspect facilities with radioactive sources

Value Type: Numeric

Variable Values and Labels: 1 = Has inspection authority; 0 = No inspection authority

Source(s): Security Measures Database

Special Coding Rules: Include as 1 even if the language is very general (e.g., infringes on these requirements).

## Variable 018

Variable Name: Training for Stakeholders

Variable Description: State has established or maintains a training program for stakeholders, e.g., users, industry, other government ministries (from Code of Conduct)

Value Type: Numeric

Variable Values and Labels: 1 = Has established or maintains a training program; 0 = Does not have a training program

Source(s): Security Measures Database

Special Coding Rules:

## Variable 019

Variable Name: Awareness Raising for Stakeholders

Variable Description: State has established or maintain awareness raising for stakeholders, e.g., users, industry (from Code of Conduct) about security.

Value Type: Numeric

Variable Values and Labels: 1 = Has an awareness raising program; 0 = Does not have an outreach program

Source(s): Security Measures Database

Special Coding Rules: Includes informing them if there is an incident or general education

## Variable 020

Variable Name: Awareness Raising for Public

Variable Description: State has established or maintain awareness raising for the public, e.g., users, industry (from Code of Conduct) about security.

Value Type: Numeric

Variable Values and Labels: 1 = Has an awareness raising program; 0 = Does not have an outreach program

Source(s): Security Measures Database

Special Coding Rules: Includes informing them if there is an incident or general education

## Variable 021

Variable Name: Prohibitions Offences Violations

Variable Description: State defines prohibited activities, offenses or violations

Value Type: Numeric

Variable Values and Labels: 1 = State defines prohibited activities offenses or violations program for the general public

Source(s): Security Measures Database

Special Coding Rules: Includes informing them if there is an incident or general education

## Variable 022

Variable Name: Penalties for Offenses or Violations

Variable Description: State has penalties for criminal or intentional offenses or violations

Value Type: Numeric

Variable Values and Labels: 1 = Has penalties; 0 = Does not have penalties.

Source(s): Security Measures Database

Special Coding Rules: Must include either fines, imprisonment, or the death penalty

## Variable 023

Variable Name: Graduated Penalties

Variable Description: State has penalties for offenses or violations

Value Type: Numeric

Variable Values and Labels: 1 = Has graduated penalties; 0 = Does not have graduated penalties.

Source(s): Security Measures Database

Special Coding Rules: Increases for repeat offenders, etc., counts as 1.

## Variable 024

Variable Name: Other Penalties

Variable Description: State has other penalties, e.g., licenses denial, revocation, inspector penalty, search & seizure.

Value Type: Numeric

Variable Values and Labels: 0 = Has no "other" penalties; 1 = Has other penalties

Source(s): Security Measures Database

Special Coding Rules: If a measure has a '1' in Variable 018, 029, 032, 034, and/or 042 of the Radiological Source Security National Measures Database v1.7, then mark as '1'.

## Variable 025

Variable Name: Evidence of Enforcement

Variable Description: Evidence that State has enforced penalties through prosecution, license revocation, imposition, etc.

Value Type: Numeric

Variable Values and Labels: 1 = At least some evidence of enforcement exists; 0 = no evidence of enforcement

Source(s): CNS Global Incidents and Trafficking Database (Reporting Period: January 2013-June 2018)

Special Coding Rules:

## Variable 026

Variable Name: Sources for Enforcement Evidence

Variable Description: Inclusion of death as a penalty.

Value Type: Alpha

Variable Values and Labels: Citations, URLs for evidence of enforcement

Source(s): Open Sources

Special Coding Rules: The sources provided in the CNS Global Incidents and Trafficking Database (Reporting Period: January 2013-June 2018)

# STIMSON

## Variable 027

Variable Name: Rad Security Compatibility Index

Variable Description: Composite of other indicators in this database

Value Type: Numeric

Variable Values and Labels: 0-1

Source(s): This database

Special Coding Rules:

## Variable 028

Variable Name: Comments

Variable Description: Space for comments by the coder

Value Type: Alpha

Variable Values and Labels:

Source(s): Coder

Special Coding Rules:

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## Additional Coding Rules

- For countries that do not have any laws/measures related to securing radiological sources, code all entries as '0'.
- For countries with law/measures related to securing radiological sources but that cannot be translated, code as 'Missing Data' by putting a '.' in each entry.
- Aggregate all information on laws/measures for one country; therefore, if Country A has Law X that lists controlled radiological sources for security purposes, but its other Law Z does not mention a control list, still mark Country A as having a list of controlled radiological sources.
- States that have measures, but that the Team could not locate are coded as 0.

## Search Strategy Decisions

- Separately for each State, coders should seek evidence of enforcement against violators (not necessarily the enforcement of a measure)
- For the CNS Global Incidents and Trafficking Database (Reporting Period: January 2013-June 2018), sort incidents by outcome of: Arrests, Citation/Violation, and Corrective Action Taken.