

CANADIAN NUCLEAR SAFETY COMMISSION

Program: Nuclear Substances and Equipment

Program: Nuclear Substances and Equipment

The Canada Border Services Agency (CBSA) assists the Canadian Nuclear Safety Commission (CNSC) with the administration of the Nuclear Safety and Control Act (NSCA) and Regulations.

The CNSC regulates, through licensing and compliance activities, the import and export of nuclear substances, prescribed equipment and prescribed information pursuant to section 24 and 26 of the NSCA, and pursuant to regulations made under the NSCA. Specific licensing requirements and authorizations vary depending on: the type of nuclear item being shipped; the applicable regulations governing the importation and exportation; the origin and destination of the shipment; and the type of risk being assessed.

Implementation of the CBSA Single Window Initiative (SWI)

Under the Single Window Initiative, release requests will be submitted utilizing a new Integrated Import Declaration (IID) that allows custom brokers to submit and obtain electronic release for goods also regulated by participating department and agencies.

Release requests for nuclear substances and equipment may be provided to the CBSA electronically by submitting an IID. The physical presentation of a licence to import nuclear substances and prescribed equipment is no longer needed when using the SWI IID process.

The classes or types of licence used by the CNSC to authorize an import include: Nuclear and Dual-use Import Licences, Nuclear Substances and Radiation Devices Licences, Waste Nuclear Substance Licences, Class II Nuclear Facility and Prescribed Equipment Licences and Nuclear Facility Operating Licences. Import must be listed as a licensed activity.

Note: Under SWI, information requirements will remain the same. There are no additional data requirements for the import process.

Harmonized System (HS) Codes

List of HS codes applicable to goods/substances that may be regulated by Nuclear Substances and Equipment:

<https://www.cbsa-asfc.gc.ca/prog/sw-gu/regcom-marreg/cnsc-ccsn-eng.html>.

Data Element Rationales

Nuclear Substances and Equipment

LPCO Type (invoice level)	Required to identify the type of document that is being attached to the electronic submission. This is necessary to distinguish between the licence and certificate numbers issued by the CNSC.
Reference Number (invoice level)	Required to validate if the document provided corresponds to the correct CNSC import licence, and CNSC device certificates.
Authorized Party	Required to validate that the Authorized Party corresponds to the Licensee that CNSC has issued the import licence authorizing the specific import transaction. This is to demonstrate that the party is authorized to use this licence to import goods must be provided.
Direct Shipment Date	Required to validate that the Direct Shipment Date falls within the allowable timeframe of the validity period of the CNSC licence authorizing the specific import transaction. The shipment date is expected to fall within the valid licence period used for the import.

Commercial Description	Required to validate that the goods being imported match those commodities authorized for import on the CNSC import licence. For nuclear equipment or radiation devices, this must correspond to a description of the equipment and/or the device name. For nuclear and dual-use substances, this must align with describe the physical form of the substance.
Chemical Specification	Required to validate that the specification of the material being imported, including isotope, matches the nuclear material authorized for import on the CNSC licence.
UNDG	Required to precisely determine the dangerous goods category for the nuclear substance and radiation device being imported and to determine which specific set of business rules must be validated.
Quantity	Required to validate that the quantity to goods being imported does not exceed the quantity that is allowed for import as described on the CNSC import licence.
Quantity Unit Count/Unit of Measure	Required to validate that the quantity to goods being imported does not exceed the quantity that is allowed for import as described on the CNSC import licence.
Delivery Party	Required to validate that the delivery party corresponds to one of the valid import locations listed on the CNSC import licence.
LPCO Type (commodity level)	Required to identify the type of document that is being attached to the electronic submission. This is necessary to distinguish between the licence and certificate numbers issued by the CNSC.
Reference Number (commodity level)	Required to validate if the document provided correspond to the correct CNSC import licence, and CNSC device certificates.
Authorized Party	Required to validate that the Authorized Party corresponds to the Licensee that CNSC has issued the import licence authorizing the specific import transaction. This is to demonstrate that the party is authorized to use this licence to import goods must be provided.
Number of Packages	Required to precisely determine the quantity of commodities being imported and ensuring it falls below the allowable import quantities listed on the CNSC import licence.
Package Certification	Required to ensure that the regulatory-related marks are consistent with the CNSC package certification requirements.

Electronic Commerce Client Requirements Document (ECCRD)

The following table provides the specific rules and conditions associated to each of the data elements for CNSC Declarations. The data elements are: Mandatory (M), Conditional (C) or Optional (O).

Nuclear Substances and Equipment

Data element name	PGA element definition	Data element status	Data element rules and conditions
Importer (Declaration)	CNSC Licensee	M	<p>This segment is to provide information on the Importer (CNSC Licensee) for this entire declaration. The Party Identifier used for identification purposes (i.e., Business Number) must belong to the licensee on the CNSC licence.</p> <p>One importer must be provided per declaration; if multiple occurrences within this segment group have this qualifier, only the first will be used.</p>
Document Type	LPCO Type	C	<p>This segment is to provide information on LPCOs (CNSC Licences) to regulate this import. This segment group should only be used to provide LPCOs that are applicable to all commodity lines on this entire declaration. To submit LPCOs that only apply to specific commodities and to declare Device Certificates (Document Type 7001), please use SG121.</p> <p>Canadian Document Type The coded identifier used for a CNSC Licence is 7000. See Appendix A for information on usage.</p>
Document Reference Number	Reference Number	C	<p>This segment is to provide information on Licences to regulate this import.</p> <p>This segment group should only be used to provide LPCOs that are applicable to all commodity lines on this entire declaration.</p> <p>To submit LPCOs that only apply to specific lines and to declare Device Certificates (Document Type 7001), please use SG121.</p> <p>Document Reference Number For every Document Type provided (for every occurrence of this segment), an associated reference number identifying the specific issuance of that document must be provided.</p> <p>Expected document reference numbers by Document Type are: Document Type – 7000 (CNSC Licence) Document Reference Number – Enter exact Licence number as it appears on Section I) on the CNSC Licence.</p>

LPCO Authorized Party (Declaration)	Authorized Party	C	<p>This segment is to provide information about the party named in the LPCO provided in SG9, if the LPCO Authorized Party is different from Importer. Use this segment if a LPCO was provided in SG9. If not, please use SG122.</p> <p>Specifically:</p> <ul style="list-style-type: none"> • The licensee name must be provided as it appears in Section II) on the CNSC Licence; • The address details must be provided as it appears in Section II) on the CNSC Licence. <p>Refer to Appendix B: Authorized party – Field, tag, format and description details.</p>
Vendor/Invoice Parties	Exporter Party	C	<p>This segment is to provide the name and address about the exporter party involved with a particular invoice party.</p> <p>Exporter Party information is mandatory for Controlled Nuclear Substance and for Nuclear Equipment.</p> <p>Refer to Appendix C: Exporter party – Categorization and description elements.</p> <p>Refer to Appendix D: Exporter party – Field, tag, format and description details.</p>
Commodity Characteristic (Commercial Description)	Commercial Description	M	<p>A commercial customs description of the commodity being imported must be provided.</p> <p>Commercial Descriptions vary depending on the Categorization of the Import. For Radiation Devices, this must contain a specific description of what the equipment is (e.g., Gamma beam X200) and/or the device name.</p> <p>For Nuclear Substances, this should describe the physical form of the substance (sealed, granules, powder etc.).</p> <p>For Controlled Nuclear Substances, a brief description of the substance must be provided.</p> <p>Refer to Appendix E: Commercial description – Categorization and description elements</p>

Commodity Characteristic (Specification)	Chemical Specification	M	<p>For commodities that fall under the categorization Radiation Devices and Nuclear Substances, the chemical specification is defined as the 1-3 character periodic table mixed-case symbol that applies to each individual element together with the atomic mass number, separated by a dash. For compounds, separate element specifications by a forward slash (e.g., Cs-137/Ca). See Table 1 in ECCRD for reference (B2.1.3).</p> <p>For Controlled Nuclear Substances, the Chemical Specification used must appear as a specific code. See tables below to determine which code to use.</p> <p>For Nuclear Equipment, the Commercial Description should be the Schedule Part number used in item description of Section IV) of the CNSC import Licence (e.g., A.2.1.10).</p> <p>Depending upon the categorization of the import, this field must contain:</p> <p>Refer to Appendix F and Appendix G for mandatory fields depending on the categorization of the import.</p>
Commodity Identifier (UNDG)	UNDG	C	<p>The United Nations Dangerous Good Code corresponding to this commodity line being imported must be provided here for commodities that fall under the categorization of Nuclear Substance and Radiation Device.</p> <p>Refer to Appendix H for categorization and essential description elements.</p>
Commodity Size	Quantity	C	<p>The total quantity of the commodities present in this commodity line must be provided. See table below for usage: Refer to Appendix I for categorization and usage.</p>
Commodity Size	Quantity	C	<p>The quantity of the chemical specifications present in this commodity line must be provided using a compatible unit of measure of the item as presented in the CNSC Licence. Additional occurrences may be required if more than one chemical specification has been identified for this commodity. Each occurrence must be provided in the same order in which the chemical specification was declared above. See table below for usage:</p> <p>Refer to Appendix J for categorization and usage.</p> <p>Compatible units of measure can be easily converted to one another using a conversion factor. For example, compatible units of measure to describe radioactivity are Becquerel's (Bq) and Curries (Ci). Compatible units of measure to describe weight are pounds and kilograms.</p>

Commodity Unit Count	Quantity Unit Count / Unit of Measure	C	<p>The actual count number of the items being imported (e.g., number of sealed sources, devices or tubes) must be provided, if it is not bulk cargo (in the logistics/customs use of the word).</p> <p>Refer to Appendix K for Categorization and usage (for unit count).</p>
Delivery Destination (Commodity)	Delivery Party	C	<p>Details for the Delivery Destination must be provided if the delivery destination is different than the Delivery Destination at the invoice level. Delivery Destination provided must be applicable to this commodity line. In particular, identification details must be provided.</p> <p>Refer to Appendix L for identification details.</p>
Document Type	LPCO Type	C	<p>This segment is to provide information on LPCOs (Licences and Certificates) to regulate this import.</p> <p>This segment group is to provide LPCOs that are applicable to a specific commodity.</p> <p>Canadian Document Type Coded identifiers used for CNSC LPCOs are 7000 and 7001. Multiple Document Types may be required to be provided depending on the commodity.</p> <p>Refer to Appendix M for information on usage.</p>
Document Reference Number	Reference Number	C	<p>This segment is to provide information on LPCOs (Licences and Certificates) to regulate this import.</p> <p>This segment group is to provide LPCOs that are applicable to a specific commodity.</p> <p>Document Reference Number For every Document Type provided (for every occurrence of this segment), an associated reference number identifying the specific issuance of that document must be provided.</p> <p>Refer to Appendix N for expected document reference numbers by Document Type.</p>
LPCO Authorized Party (Declaration)	Authorized Party	C	<p>This segment is to provide information about the party named in the LPCO provided in SG121, if the LPCO Authorized Party is different from Importer.</p> <p>Specifically:</p> <ul style="list-style-type: none"> • The licensee name must be provided as it appears in Section II) on the CNSC Licence • The address details must be provided as it appears in Section II) on the CNSC Licence <p>Refer to Appendix B: Authorized party – Field, tag, format and description details.</p>

Packaging Quantity	Number of Packages	M	The count of packages for each retail package level must be provided. Zero may be provided if not applicable.
Packaging Marking Information	Package Certification	C	Any regulatory-related marks (e.g. certifications) present on the retail packaging must be provided if present.

Additional resources

Regulated Commodities

Reference Code Tables

Legislation:

Importation of Nuclear Substances, Prescribed Nuclear Equipment and Prescribed Nuclear Information referred to in the **Nuclear Safety and Control Act**, the **Nuclear Substances and Radiation Device Regulations**, the Class II Nuclear Facilities and Prescribed Equipment Regulations and the **Nuclear Non-proliferation Import and Export Control Regulations** (NNIECR).

Customs Memoranda:

Administration of the Nuclear Safety and Control Act, Memorandum D19-2-1

<https://www.cbsa-asfc.gc.ca/publications/dm-md/d19/d19-2-1-eng.html>

Appendix A: Information on usage

HS Code(s)	Document Type	Usage/Remark
2612.10 2612.20 2844.10 2844.20 2844.30 2844.40 2844.50 2845.10 2845.90 8401.10 8401.20 8401.30 8401.40	7000 (CNSC Licence)	Commodities under these HS Codes only require one Document Type to be provided.

Appendix B: Authorized party – Field, tag, format and description details

Field	Tag	Format	Description
Party Identifier	3039	an..35	The Licensee's 15-digit CRA-issued business number (BN).
Party Name	3036	an..70	First 70 characters of Licensee Name as it appears on the CNSC Licence. Use additional fields for more characters, as required.
Street	3042	an..35	First 30 characters of Street name and number or PO Box identifier number. Use additional fields for more characters, as required.

City Name	3164	an..35	Name of City.
Country subdivision identifier	3229	an..6	Abbreviated Province Name Use (2 character codes).
Postal Code	3251	an..9	Postal Code.

Appendix C: Exporter party – Categorization and description elements

Categorization	Essential Description Elements
Radiation Device	Exporter information is optional.
Nuclear Substance	Exporter information is optional.
Controlled Nuclear Substance	Exporter information is optional.
Nuclear Equipment	Exporter information is optional.

Appendix D: Exporter party – Field, tag, format and description details.

Field	Tag	Format	Description
Party Name	3036	an..70	First 70 characters of Exporter Name as it appears on the CNSC Licence. Use additional fields for more characters, as required.
Street	3042	an..35	First 30 characters of Street name and number or PO Box identifier number. Use additional fields for more characters, as required.
City Name	3164	an..35	Name of City.
Country subdivision identifier	3229	an..6	This element is mandatory for Canadian and American addresses.
Postal Code	3251	an..9	This element is mandatory for Canadian and American addresses.
Country identifier	3207	an..2	Provide the country code as per Appendix G24.

Appendix E: Commercial description – Categorization and description elements

Categorization	Essential Description Elements
Radiation Device	Device name (e.g., Gamma beam X200).
Nuclear Substance	Physical form of the substance (sealed, granules, powder etc.)
Controlled Nuclear Substance	Brief description of the substance being imported.
Nuclear equipment	Brief description of the equipment being imported.

Appendix F: Mandatory fields depending on the categorization of the import

Categorization	Essential Description Elements
Nuclear equipment	The NNIECR Schedule Part number as it appears on your import Licence (e.g., A.2.1.10)
Radiation Device	Chemical specification of the intended material to contain (e.g., Cs-137)
Nuclear Substance	Chemical specification (e.g., Y-90)
Controlled Nuclear Substance	The Specification as it appears in the table below that corresponds to the Controlled Nuclear Substance (e.g., Plutonium) to be imported.

Appendix G: Mandatory fields depending on the categorization of the import

Controlled Nuclear Substance	Specification
Plutonium	Plutonium
Uranium enriched in the isotopes 233	EU-233
Uranium 233	U-233
Uranium enriched in the isotopes 235	EU-235
Uranium that contains the mixture of isotopes that occurs in nature	U-Natural
Uranium that is depleted in the isotope 235	U-Depleted
Thorium	Thorium
Heavy water	D2O
Deuterium	Deuterium
Tritium	H3

Appendix H: Categorization and essential description elements

Categorization	Essential Description Elements
Radiation Device	UNDG is mandatory
Nuclear Substance	UNDG is mandatory
Controlled Nuclear Substance	UNDG is not required
Nuclear Equipment	UNDG is not required

Appendix I: Categorization and usage (for commodities)

Categorization	Usage
Radiation Device	The total quantity of the commodity must be provided.
Nuclear Substance	The total quantity of the commodity must be provided.
Controlled Nuclear Substance	The total quantity of the commodity must be provided.

Appendix J: Categorization and usage (for chemical specifications)

Categorization	Usage
Radiation Device	The activity of the source per device must be provided. Additional occurrences of this segment maybe required.
Nuclear Substance	The total activity/activity concentration, per isotope, of the sources must be provided.
Controlled Nuclear Substance	Total mass of the Controlled Nuclear Substance must be provided.

Appendix K: Categorization and usage (for unit count)

Categorization	Usage
Radiation Device	The Unit Count of radiation devices, per model.
Nuclear Substance	The Unit Count of sources, per isotope.
Nuclear Equipment	The Unit Count, per equipment.

Appendix L: Identification details

Field	Tag	Format	Description
Party Name	3036	an..70	First 70 characters if Licensee Name, as it appears on the CNSC Licence. Use additional fields for more characters, as required.
Street	3042	an..35	First 30 characters of Street name and number or PO Box identifier number. Use additional fields for more characters, as required.
City Name	3164	an..35	Name of City
Country subdivision identifier	3229	an..6	Abbreviated Province Name. Use (2 character codes)
Postal Code	3251	an..9	Postal Code
Country identifier	3207	an..2	Provide the country code as per Appendix G24.

Appendix M: Information on usage

HS Code(s)	Document Type	Usage/Remark
2612.10 2612.20 2844.10 2844.20 2844.30 2844.40 2844.50 2845.10 2845.90 8401.10 8401.20 8401.30 8401.40	7000 (CNSC Licence)	Commodities under these HS Codes only require one Document Type to be provided.
8531.10.10 10 8531.10.10 90 9022.21.00 9022.29.00 9027.80.11.00 9027.80.90 20 9027.80.90 30 9030.10.00 10	7000 (CNSC Licence) and 7001 (CNSC Device Certificate)	Commodities under these HS Codes require two Document Types to be provided. Two occurrences of this segment will be used: Document Type 7000 must be provided for a CNSC Licence and Document Type 7001 must be provided for a CNSC Device Certificate.

Appendix N: Expected document reference numbers by Document Type

Document Type	Document Reference Number
7000 (CNSC Licence)	Enter exact Licence number as it appears on Section I) on the CNSC Licence.
7001 (CNSC Device Certificate)	Enter exact Device Certificate number as it appears on the CNSC Device Certificate.

Contact Livingston

Have questions or need help with your SWI imports?

Contact your Livingston client services representative.

Write to us at: clientserviceCanada@livingstonintl.com or give us a call at **1-855-225-5544**.