

G4NDL

SLAC/SCCS

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Issues

- Support of version 0.2 neutron data files without thermal cross sections
 - I want to drop the support
- Policy for heavy elements ($Z > 93$)
 - Special environment variable prohibits use of restricted nuclei (Message to contact Hans Peter)
 - No data in G4NDL for these nuclei
- Software export control of United States: Not sure if laws and Regulations apply

Export Control

- For example, MCNPs are not allowed to distribute to several countries (Most of whom have not ratified Treaty on the Non-Proliferation of Nuclear Weapons)
- In my understanding, ENDF files are open to public (even the above countries), however ACE format data files (These are derived from ENDF files and suitable for Monte Carlo calculations) are classified (distribution not allowed to above countries).
- G4NDL is similar in this way to ACE data files.
- I would like to ask proper attention to this issue not only from this working group but also from SB and OB.
- Disclaimer
 - I am not a lawyer and an expert of above things. My understanding could be false.

Example

Radiation Safety Information Computational Center (RSICC)

Software Export Control Understanding and Agreement

Radiation Safety Information Computational Center (RSICC) Software Export Control Understanding and Agreement

As a subscriber of the RSICC Software identified below, under the proper execution of the applicable software license agreement, you acknowledge and agree to abide by all applicable United States Export Control Laws and Regulations.

Specifically, the identified software has been classified under the United States Department of Commerce Title 15 Commerce and Foreign Trade, Chapter VII B Bureau of Export Administration, Parts 730 through 774, Commerce Control List as OD999 Specific Software. For reference to the Commerce Regulations and the Additional Requirements below, please refer to:
http://www.access.gpo.gov/bis/ear/ear_data.html

License Requirements: The reasons for Control are Antiterrorism (AT). AT applies to entire entry. A license is required for items controlled by this entry to North Korea and Iraq for anti-terrorism reasons. The Commerce Country Chart is not designed to determine AT licensing requirements for this entry. See Part 742.19 for additional information.

- Items:
- a). Software for neutronic calculations/modeling;
 - b). Software for radiation transport calculations/modeling;
 - c). Software for hydrodynamic calculations/modeling.

Additional Requirements:

The subscriber also agrees to review the following lists and agrees not to allow direct or indirect access to the software identified herein for the following individuals, organizations and parties.

Supplemental No. 4 to Part 744 B Entity List, <http://www.access.gpo.gov/bis/ear/pdf/744spir.pdf>
Office of Foreign Assets Control (OFAC) Specially Designated Nationals and Blocked Persons,
Part 764, Supplement 3, <http://www.treas.gov/offices/enforcement/ofac/sdn/t11sdn.pdf>

The Denied Persons List - Bureau of Export Administration, Part 764, Supplement 2,
<http://bxa.doc.gov/dpl/thedeniallist.asp>

Terrorist Countries as defined by the Department of Commerce,

Part 740 SPIR, Country Group E, <http://www.access.gpo.gov/bis/ear/pdf/740spir.pdf>

Defense Trade Controls - List of Debarred Parties, <http://www.pmdtc.org/debar059.htm>

Unverified List, http://bxa.doc.gov/Enforcement/UnverifiedList/unverified_parties.html

Absolute Denial:

For all other parties not identified above, absolute denial will be presumed if the end user is engaged in nuclear proliferation activities.

By signature below, the subscriber acknowledges and agrees to comply with the United States Export Control Laws and Regulations requirements cited herein.

Software Package: _____ Software ID: _____

Name: _____ Signature: _____
(Type or Print) (Sign)

Date: _____

Fax to 865-241-4046
Phone: 865-574-6176
Email: pdc@ornl.gov

or mail Export Control Form to:
Radiation Safety Information Computational Center
Oak Ridge National Laboratory
Bethel Valley Road
P.O. Box 2008
Oak Ridge, TN 37831-6171

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Interpretation of Document

- Documents provide the list of affected countries
- Also long list of affected persons
 - Some these people live in allowed countries
- Case for lawyers
 - If applicant demonstrate non terrorist and non proliferation non military purpose: Can we then distribute data? e.g. Americium data?