

Export Controls and the International Nuclear Non-Proliferation Regime



# The NSG – Promoting Responsible Supplier Behaviour

An overview of the NSG Guidelines and good practice documents

**10<sup>th</sup> NPT Review Conference – Side Event** 

18 August 2022 - United Nations, New York



### **Multilateral Export Control Regimes**



#### Zangger Committee

- Established 1971-1974 to interpret NPT Article III.2
- 39 Member Governments
- Determines the meaning and application of "especially designed or prepared"
- Trigger List covers material and equipment transfer

#### Nuclear Suppliers Group

- Established in 1974 following a peaceful nuclear explosion
- 48 Participating Governments (PGs)
- Conscious effort to balance
  trade and security interests
- Trigger List and Dual Use List Cover material, equipment, and *technology* transfer



NSG Participating Governments							
Argentina	Bulgaria	Denmark	Hungary	Latvia	New Zealand	Russian Federation	Sweden
Australia	Canada	Estonia	Iceland	Lithuania	Norway	Serbia	Switzerland
Austria	China	Finland	Ireland	Luxembourg	Poland	Slovakia	Türkíye
Belarus	Croatia	France	Italy	Malta	Portugal	Slovenia	Ukraine
Belgium	Cyprus	Germany	Japan	Mexico	Romania	South Africa	United Kingdom
Brazil	Czech Republic	Greece	Kazakhstan	Netherlands	Republic of Korea	Spain	United States
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NCC Derticipation Covers





The European Commission and the Chair of the Zangger Committee participate as observers

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#### The NSG takes all decisions by consensus at the yearly Plenary Meeting

**Recent Plenary Meetings:** 

Warsaw 2022 Brussels 2021 Nur-Sultan 2019 Jūrmala 2018 Bern 2017 Seoul 2016 Bariloche 2015 Buenos Aires 2014 Prague 2013





#### The NSG Guidelines Part 1 and Part 2

NSG Part 1 Guidelines – Nuclear Transfers

- Scope (1)
- Prohibition on nuclear explosives (2)
- Physical protection (3)
- CSAs as CoS (4-5)
- Special controls on sensitive exports (6)
- Enrichment (7)
- Reprocessing (8)
- Controls on retransfers
  (9)
- Nonproliferation
  principle (10)
- Implementation (11)

NSG Part 1 Guidelines – Nuclear Transfers

Supporting Activities:

- Access for peaceful uses (12)
- Physical security (13)
- Effective IAEA safeguards (14)
- Plant designs (15)
- Export controls (16)
- Consultations (17)
- Changes to the Guidelines (18)

NSG Part 2 Guidelines – Nuclear-related Transfers (Dual-Use)

- Objective (1)
- Basic principle (2)
- Definitions (3)
- Export licensing procedures (4)
- Catch all controls (5)
- Conditions for transfers
  (6)
- Retransfers (7)
- Additional items and conditions for transfers (8)
- Information exchange (9)
- Universal adherence (10)



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# Annex A to the Part 1 General Notes Technology Controls

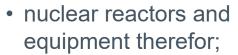
#### Software Controls

#### Definitions

#### Material and Equipment

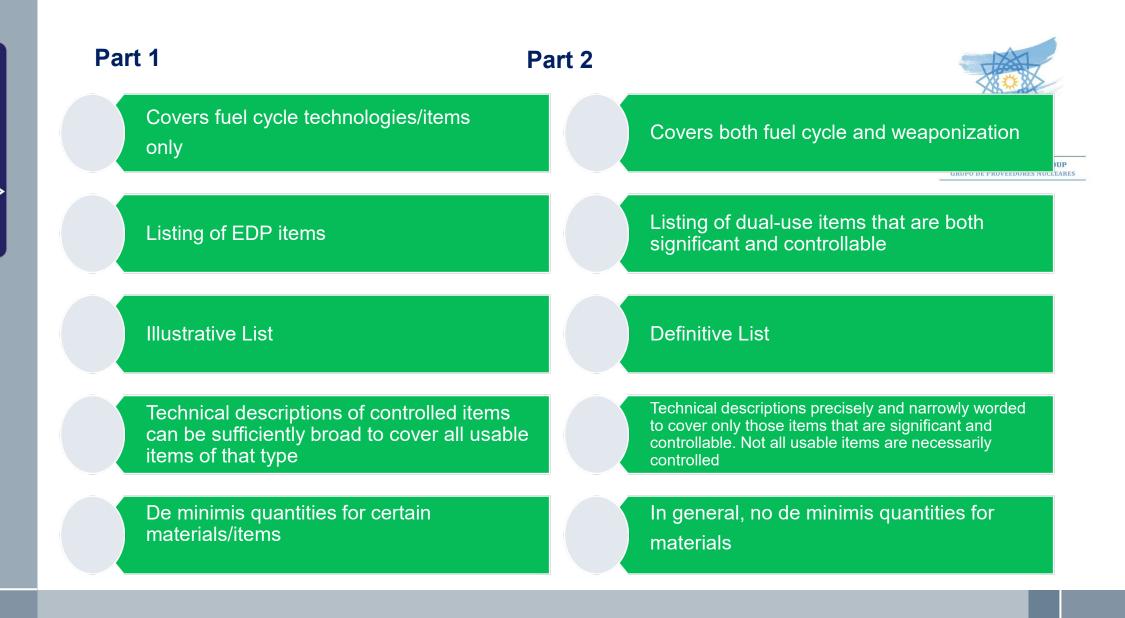
- Source and special fissionable material
- Equipment and non-nuclear materials

#### Annex B to the Part 1



- non-nuclear material for reactors;
- plants and equipment for reprocessing;
- plants and equipment for fabrication of nuclear fuel elements;
- plants and equipment for separation of isotopes;
- plants for heavy water production; and
- plants and equipment for conversion.







#### **Recent Changes**



The 2022 Plenary decided to update Part 2 of the NSG Guidelines accurates (Dual-Use List)

- 1.B.1 "Flow-forming Machines." This amendment ensures the coverage of flow-forming machines that can be used to produce gas centrifuge rotors are harmonized with the controlled parameters of the centrifuges.
- 3.B.2 "Rotor fabrication or assembly equipment". This amendment ensures the dimensions for gas centrifuge rotor fabrication equipment are harmonized with the controlled parameters of the centrifuges.
- Editorial correction: In the definitions section of the Dual-Use List, the abbreviation for the unified atomic mas unit was depicted erroneously with a capital 'U'; it has been corrected to a lower case 'u'.

See: https://www.nuclearsuppliersgroup.org/en/guidelines



#### **Cyclical Updating of the Control Lists**

- Control Lists generally updated every year following Plenary Meeting
- Agreed changes to Control Lists shared via the NSG website for information purposes.
- Every 3 years, consolidated changes forwarded to IAEA for official publication as part of the INFCIRC series (INFCIRC/254 Part 1 and Part 2).
- Participating Governments decide whether they implement approved changes on annual notification or IAEA publication (last updated July 2022).



Updated NSG Part 1 – Trigger List (PDF file) Updated NSG Part 1 – Trigger List, track edit change version (PDF file) Updated NSG Part 2 – Dual-Use List (PDF file) Updated NSG Part 2 – Dual-Use List, track edit change version (PDF file)

https://www.nuclearsuppliersgroup.org/en/guidelines

Auclear Suppliers Group

NSG Guidelines and Control Lists increasingly represent the global standard for nuclear and dual use nuclear related trade Internationally renowned set of best practices NSG

• NPT 2010 Action Plan

Action 36: "The Conference Encourages States parties to make use of multilaterally negotiated and agreed guidelines and understandings in developing their own national export controls."

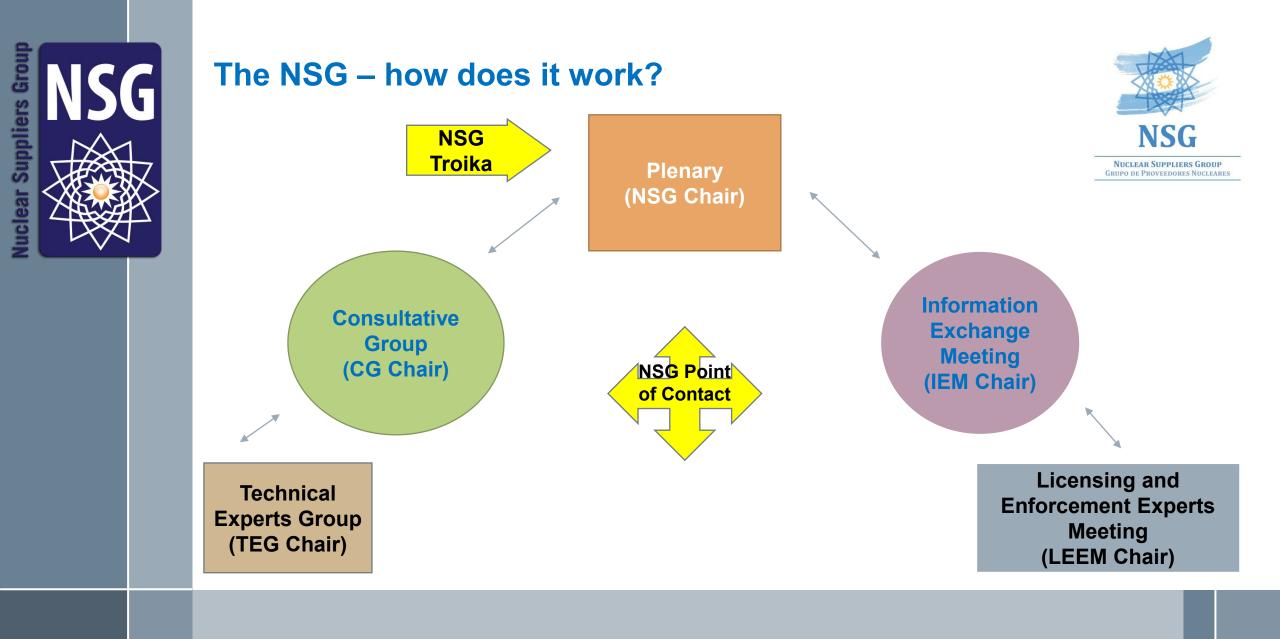
- United Nations Security Council Resolution 1540 "[T]hat all states shall take and enforce effective measures to establish domestic controls to prevent the proliferation of nuclear [....] weapons, including by establishing appropriate controls over related materials."
- Cited in IAEA Model Additional Protocol

Nuclear Suppliers Group





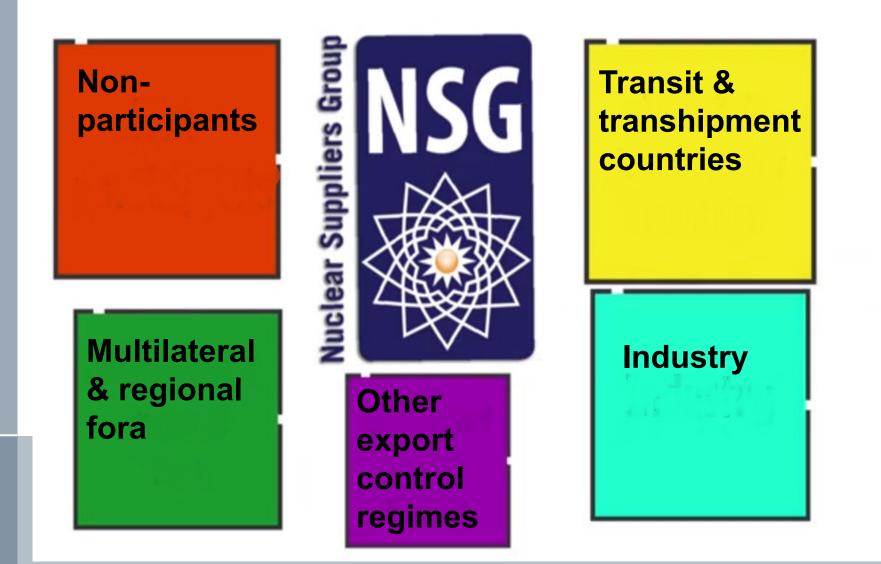
# **Neither approves nor denies** Sets an agreed international standard **National Implementation**





# NSG Outreach – Promoting responsible supplier behaviour







Besides the NSG Guidelines, the NSG offers "good practices" which can support implementation of export controls: Efficient Processing of Government to Government Assurances (GTGA)

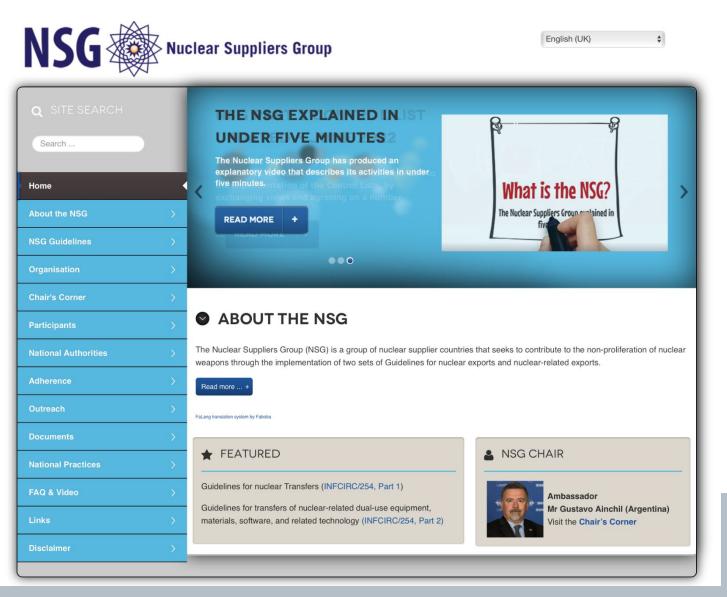
Good Practices for Corporate Standards to Support the Efforts of the International Community in the Non-Proliferation of Weapons of Mass Destruction

Good Practices for the Implementation of Brokering and Transit/Transshipment Controls















## Thank you for your attention

## **Questions?**