

## Examples of control items

Office of International Affairs for Security Export Control, Trade and Economic Cooperation Bureau, Ministry of Economy, Trade and Industry (METI)



Example of control items / Industry Seminar in the Philippines (Jan. 13, 2011)

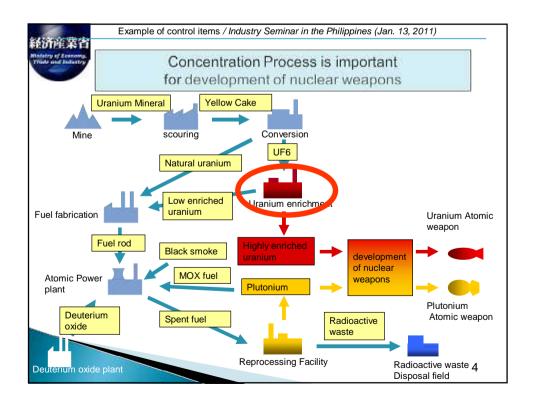
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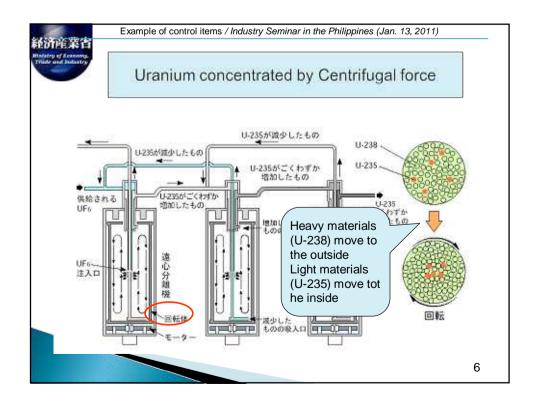


## Examples of control items

- in the case of Nuclear Weapons







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#### Machine tool

The Machine Tool is a machine which produces machine parts. Computer Numerical Control (CNC) control the movement and speed of the cutting tool. Therefore it can process complex shapes.



Military us e Used for processing parts for Centrifugal machines

Civilian us e Used for processing automobile parts and general machine parts, which must be highly control

It is controlled in NSG and WA.

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1.B.2. Machine tools, as follows, and any combination thereof, for removing or cutting metals, ceramics, or composites, which, according to the manufacturer's technical specifications, can be equipped with electronic devices for simultaneous "contouring control" in two or more axes:

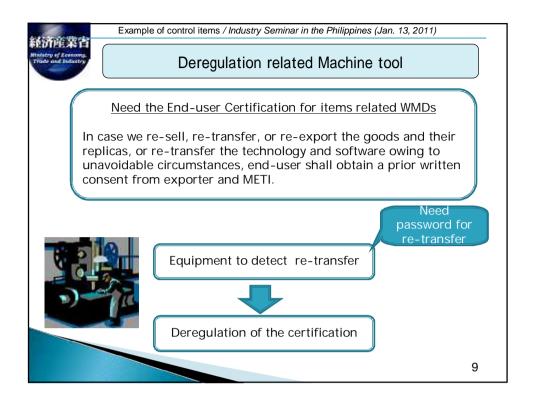
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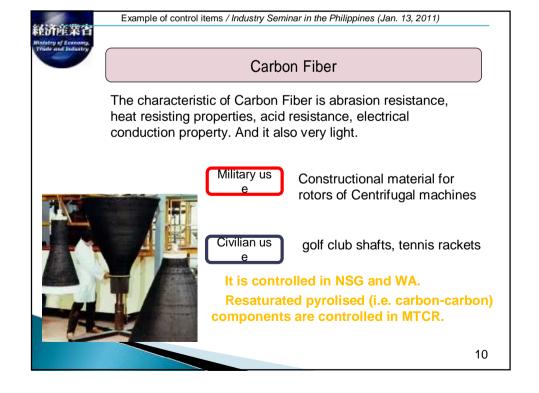
- a. Machine tools for turning, that have "positioning accuracies" with all compensations available better (less) than 6  $\,\mu$  m according to ISO 230/2 (1988) along any linear axis (overall
- positioning) for machines capable of machining diameters greater than 35 mm;
- b. Machine tools for milling, having any of the following characteristics:
- 1. "Positioning accuracies" with all compensations available better (less) than 6  $\,\mu$  m according to ISO 230/2 (1988) along any linear axis (overall positioning);
- 2. Two or more contouring rotary axes; or
- ${\it 3. } \ \ {\it Five or more axes, which can be coordinated simultaneously for ``contouring control}$

...

Extraction from NSG guideline (part2)

http://www.nuclearsuppliersgroup.org/Leng/PDF/infcirc254r7p2-060320.pdf





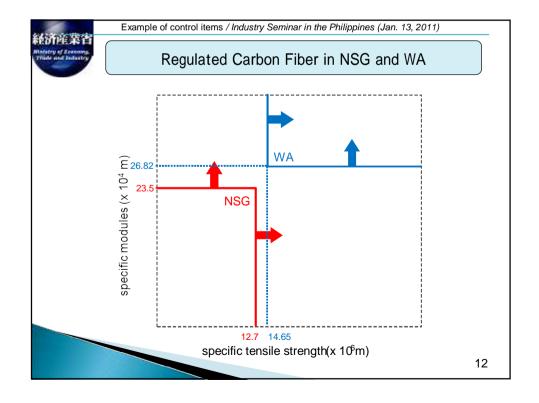
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- 2.C.7. "Fibrous or filamentary materials", and prepregs, as follows:
  - a. Carbon or aramid "fibrous or filamentary materials" having either of the following characteristics:
  - 1. A 'specific modulus' of 12.7 x 106 m or greater; or
  - 2. A 'specific tensile strength' of 23.5 x 104 m or greater;

Note: Item 2.C.7.a. does not control aramid "fibrous or filamentary materials" having 0.25% or more by weight of an ester based fiber surface modifier.

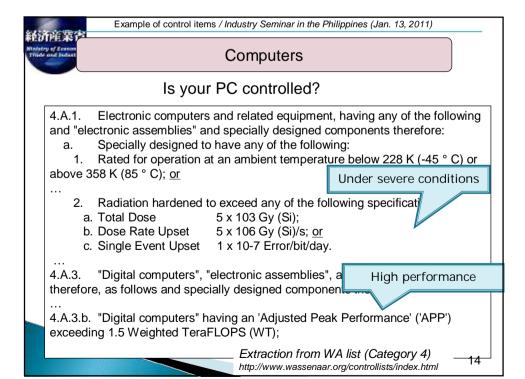
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## **Examples of Control Items**

- in the case of Computers





## **Examples of Control Items**

- in the case of Cryptography

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#### Cryptography

Cryptography is to transform words or symbols into other words or symbols according to a defined procedure.

Cryptography are controlled because of the use for concealment of Military information.

It is also used for Civilian use, which are extended rapidly.

It is hard to define uses of Cryptography.

<Military use>

Military Information

<Civilian use>

PC, game

Credit card: name, price of goods or service Smart card (electronic wallet, SIM card)

: the balance, name, telephone number

Cryptography is controlled by 'Negative List System' which means that all subjects to have defined specs without some defined exceptions are controlled.



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#### Cryptography

5.A. 2. "Information security" systems, equipment and componer 5.A.2.a.1.a. A "symmetric algorithm" employing a key lend

Controlled specs

or

document

following:

56 bits:

b. An "asymmetric algorithm" where the security of the algorithm is based on any of the following:

- 1. Factorisation of integers in excess of 512 bits (e.g., RSA);
- 2. Computation of discrete logarithms in a multiplicative group

of a finite field of size greater than 512

Exception use which means only civilian use

5.A.2. does not apply to any of the following: Note

over 7/n7)· or

a.Smart cards and smart card 'readers/writers' as follows:

1.A smart card or an electronically readable personal token coin, e-passport) that meets any of the

b. Having all of the following:

1.It is specially designed and limited to allow protection of 'personal ata' stored within:

> Extraction from WA list (Category 5 - Part 2) http://www.wassenaar.org/controllists/index.html

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#### Additional Exceptions

If you have an overseas business trip and you bring a PC with controlled cryptography, ...

#### Part 2 - "INFORMATION SECURITY"

For Personal use

Note 2 Category 5 – Part 2 does not apply to products when accompanying their user for the user's personal use.

Note 3 Cryptography Note

For Goods on the market

5.A.2. and 5.D.2. do not apply to items that meet all of the following:

- Generally available to the public by being sold, without restriction, from stock at retail selling points by means of any of the following:
- Over-the-counter transactions: 1.
- 2. Mail order transactions:
- 3. Electronic transactions: or
- 4. Telephone call transactions;
- The cryptographic functionality cannot easily be changed by the user; b.

Extraction from WA list (Category 5 - Part 2) 18 http://www.wassenaar.org/controllists/index.html



# Thank you for your attention.

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