Do you Export such products ?

Do you Import such Equipments ?

Do you Use such products and Equipments ?

BUT faced with

- Legislative action
- Obstacles in trading
- Sanction
- and many more

Do you aware where does your trade goes to ?

or it could end up

Worry No More, We are here to HELP

MOSTI

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Conclusion

For more information on the Implementation of Malaysia Additional Protocol, the IAEA, and AELB's implementation of the Additional Protocol for Malayisa industry, please call Policy, Codes and Standard Division at 03-8922 5888 or visit www.aelb.gov.my/AP

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Overview of the Malaysian Additional Protocol

Additional Protocol

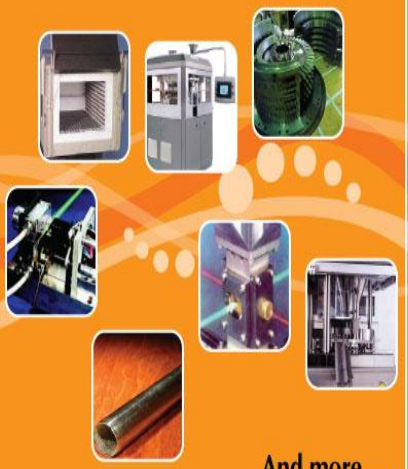
In 1993 a program was initiated to strengthen and extend the classical nuclear safeguards system, and a model protocol was agreed by the IAEA Board of Governors 1997. The measures boosted the IAEA's ability to detect undeclared nuclear activities, including those with no connection to the civil fuel cycle.

Facilitation of Smooth Trade

On 22 Nov 2005, Malaysia had signed an Additional Protocol to the Safeguards Agreements that will expand the control to include nuclear related items, components and technology. These items may not be nuclear materials but such high technology equipment that can also be used in other high technology industries such as petrochemical, electronics as well as other relevant industries.

Atomic Energy Licensing Board (AELB) is the nuclear regulatory body in Malaysia and is the agency responsible to provide on the performance of the obligation arising from treaties related to nuclear matters. In carrying out this duty, AELB is reviewing the status of Malaysia industries especially manufacturing capabilities of these sensitive and high technology items and components.

Do You Own or Manufacture Such Materials?



And more...

ATOMIC ENERGY LICENSING BOARD

QUESTIONNAIRES
ADDITIONAL PROTOCOL (AP) REVIEWING

MANUFACTURING INDUSTRIES

DATE : _____

COMPANY NAME AND ADDRES	**Company :** _____ **Address :**_____ **Postcode:**_____ _____
COMPANY CORE PRODUCT & BUSINESS	**Brief Introduction:** _____ _____ _____
DEPARTMENT	_____
HEAD OF DEPARTMENT	**Name :**_____ **Contact number : Office :** _____ **HP:**_____ **Fax :** _____
OFFICER IN CHARGE	**Name :**_____ **Contact number : Office :** _____ **HP:**_____ **Fax :** _____
ANY OTHER OFFICER IN CHARGE	_____ _____

Category of Materials listed in ANNEX II * Please tick at the relevant facility and material that is being <u>used/produced/ available/trade/ kept/import and export or any others.</u>		
	1	**Capability of producing**
		- Zirconium tubes ☐
		- Coolant pumps ☐
	2	**Non-nuclear material**
		- Deuterium and Heavy Water ☐
		- High Grade Graphite ☐
	3	**Plants for the reprocessing of irradiated fuel elements, and equipment especially designed or prepared therefor**
		- Irradiated fuel element chopping machines ☐
		- Dissolvers ☐
		- Solvent extractors and solvent extraction equipment ☐
		- Chemical holding or storage vessels ☐
		- Nitrate to oxide conversion system ☐
		- Oxide to metal production system ☐
	4	**Plants for the fabrication of fuel elements** ☐
	5	**Gas centrifuges and assemblies and components especially designed or prepared for use in gas centrifuges**
	5.1.1	**Rotating Components**
		- Complete rotor assemblies ☐
		- Rotor tubes ☐
		- Rings or Bellows ☐
		- Baffles ☐
		- Top caps/Bottom caps ☐
	5.1.2	**Static components**
		- Magnetic suspension bearings ☐
		- Bearings/Dampers ☐
		- Molecular pumps ☐
		- Motor stators ☐
		- Centrifuge housing/recipients ☐
		- Scoops ☐

5.2 Especially designed or prepared auxiliary systems, equipment and component for gas enrichment plants

- **Machine header piping systems** ☐
- **Feed systems/product and tails withdrawal systems** ☐
- **Mass spectrometer / ion sources** ☐
- **Frequency changers** ☐

5.3 Especially designed or prepared assemblies and components for use in gaseous enrichment.

- **Gaseous diffusion barriers** ☐
- **Diffuser housings** ☐
- **Compressors and gas blowers** ☐
- **Rotary shaft seals** ☐
- **Heat exchanger for cooling** ☐

5.4 Especially designed or prepared auxiliary systems, equipment and components for use in gaseous diffusion enrichment

- **Feed systems/product and tails withdrawal systems** ☐
- **Head piping systems** ☐
- **Vacuum systems** ☐
- **Special shut-off and control valves** ☐
- **Mass spectrometer / ion sources** ☐

5.5 Especially designed or prepared systems, equipment and components for use in aerodynamic plants

- **Separation nozzles** ☐
- **Vortex tubes** ☐
- **Compressors and gas blowers** ☐
- **Rotary shaft seals** ☐
- **Heat exchangers for gas cooling** ☐
- **Separation element housings** ☐
- **Feed systems/product and tails withdrawal systems** ☐
- **Header piping systems** ☐
- **Vacuum systems and pumps** ☐
- **Special shut-off and control valves** ☐
- **Mass spectrometer / ion sources** ☐
- **gas separation systems** ☐

5.6 Especially designed or prepared systems, equipment and components for use in chemical exchange or ion exchange enrichment plants

- **Liquid-liquid exchange columns (Chemical exchange)**
- **Liquid-liquid centrifugal contactors (Chemical exchange)**
- **Reduction systems and equipment (chemical exchange)**
- **Feed preparation systems (chemical exchange)**
- **Oxidation systems (Chemical exchange)**
- **Fast-reacting ion exchange resin/adsorbents (ion exchange)**
- **Ion exchange columns (ion exchange)**
- **Ion exchange reflux systems (Ion exchange)**

5.7 Especially designed or prepared systems equipment and components for use in laser-based enrichment plants

- **Vaporization (AVLIS)**
- **Liquid metal handling systems (AVLIS)**
- **Metal 'product' and 'tails' collector assemblies (AVLIS)**
- **Separator module housings (AVLIS)**
- **Supersonic expansion nozzles (MLIS)**
- **Pentafluoride products collectors (MLIS)**
- **Gas compressors (MLIS)**
- **Rotary shaft seals (MLIS)**
- **Fluorination systems (MLIS)**
- **Mass spectrometer / ion sources (MLIS)**
- **Feed systems/product and tails withdrawal systems (MLIS)**
- **Gas separation systems (MLIS)**
- **Laser systems (AVLIS , MLIS and CRISLA)**

5.8 Especially designed or prepared systems, equipment and components for use in plasma separation enrichment plants

- **Microwave power sources and antennae**
- **Ion excitation coils**
- **Plasma generation systems**
- **Liquid metal handling systems**
- **Metal 'product' and 'tails' collector assemblies**
- **Separator module housings**

	5.9	**Especially designed or prepared systems, equipment and components for use in electromagnetic enrichment plants** **- Electromagnetic isotope separators** **i) Ion Source** ☐ **ii) Ion Collectors** ☐ **iii) Vacuum housings** ☐ **- High Voltage power supplies** ☐ **- Magnet power supplies** ☐
	6	**Plants for the production of heavy water, deuterium and deuterium compounds and equipment especially designed or prepared therefor** **- Water - Hydrogen sulphide exchange towers** ☐ **- Blowers and compressors** ☐ **- Ammonia-Hydrogen exchange towers** ☐ **- Tower internals and stage pumps** ☐ **- Ammonia Crakers** ☐ **- Infrared absorption analyzers** ☐ **- Catalytic Burners** ☐

Please kindly submit the details of equipments or materials that are ticked in softcopy in one (1) week from the date of receiving this to sionghu@aelb.gov.my or fitriah@aelb.gov.my or hardcopy in two (2) weeks to the following address:-

Policy Code and Standard Division
Atomic Energy Licensing Board
Batu 24, Jalan Dengkil
43800 Dengkil
Selangor Darul Ehsan
www.aelb.gov.my
(Attention: Tn. Hj. Mohd Pauzi Bin Mohd Sobari)

If there are any enquiries, please kindly contact

- **Ms. Noor Fitriah Bakri** **fitrah@aelb.gov.my** **+603 8922 5888 Ext 5740**
- **Mr. Yeoh Siong Hu** **sionghu@aelb.gov.my** **+603 8922 5888 Ext 5747**