



STA 2010

-Introduction to Strategic Item -



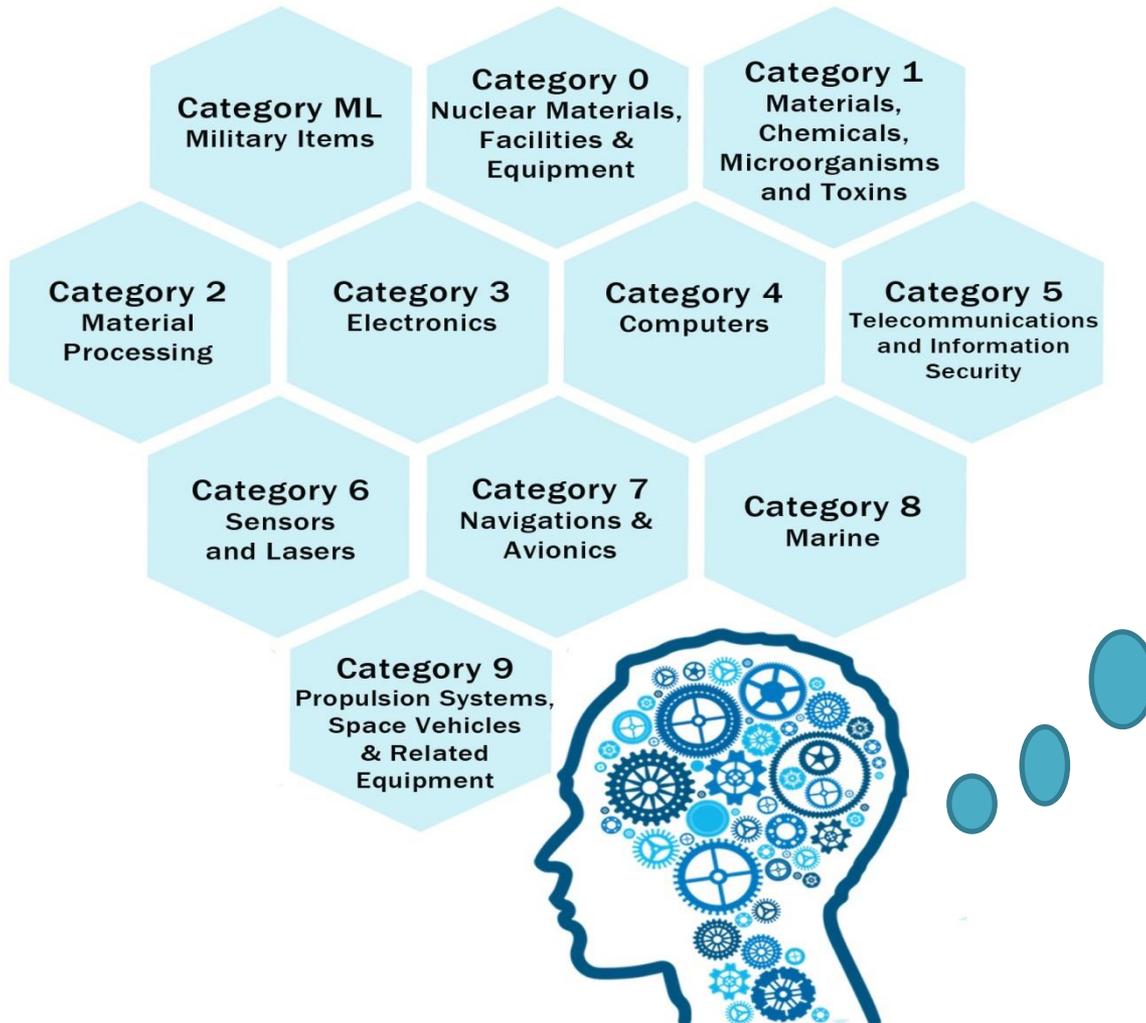


Ministry of International
Trade and Industry

Strategic Items Classification



Classification of STA 2010 Items



Unlisted items

If a person is informed by the relevant authority;

If a person knows/has reason to believe that the item will or may be used for a restricted activity



The control list

Strategic Trade (Strategic Items) (Amendment) Order 2017

- List out the strategic items that are controlled which can be divided into military items and dual use items
- Adopted from the EU list
- Last updated on March 2017
- **Different from Custom HS Code (only 5 digits code)**

P.U. (A) 90

Category Code	Items Description	Note	Relevant Authority
1C216	Maraging steel, other than that specified in 1C116, 'capable of an ultimate tensile strength of 1,950 MPa or more, at 293 K (20 °C).	Note: 1C216 does not control forms in which all linear dimensions are 75 mm or less. Technical Note: The phrase maraging steel 'capable of' encompasses maraging steel before or after heat treatment.	Atomic Energy Licensing Board (AELB), MOSTI
1C225	Boron enriched in the boron-10 (¹⁰ B) isotope to greater than its natural isotopic abundance, as follows: elemental boron, compounds, mixtures containing boron, manufactures thereof, waste or scrap of any of the foregoing.	Note: In 1C225 mixtures containing boron include boron loaded materials. Technical Note: The natural isotopic abundance of boron-10 is approximately 18.5 weight per cent (20 atom per cent).	Atomic Energy Licensing Board (AELB), MOSTI
1C226	Tungsten, tungsten carbide, and alloys containing more than 90% tungsten by weight, other than that specified by 1C117, having both of the following characteristics: a. In forms with a hollow cylindrical symmetry (including cylinder segments) with an inside diameter between 100 mm and 300 mm; and b. A mass greater than 20 kg.	Note: 1C226 does not control manufactures specially designed as weights or gamma-ray collimators.	Atomic Energy Licensing Board (AELB), MOSTI
1C227	Calcium having both of the following characteristics: a. Containing less than 1,000 parts per million by weight of metallic impurities other than magnesium; and		Atomic Energy Licensing Board (AELB), MOSTI



30 Mac 2017
30 March 2017
P.U. (A) 90

WARTA KERAJAAN PERSEKUTUAN

FEDERAL GOVERNMENT
GAZETTE

PERINTAH PERDAGANGAN STRATEGIK
(BARANG STRATEGIK) (PINDAAN) 2017

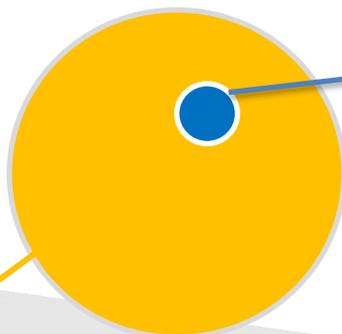
**STRATEGIC TRADE (STRATEGIC ITEMS)
(AMENDMENT) ORDER 2017**

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PUBLISHED BY
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ATTORNEY GENERAL'S CHAMBERS



STA Category Codes Vs HS Code

STA Category Codes	HS Code
5 digits code	10 digits code
Adopted from EU control list	Developed by World Customs Organization (WCO)
Specifically for strategic items (goods & technology)	For all goods
Updated at least every 2 years	Every 5 years
Each code represent a specific items based on their technical specification	Each code may consist more than one items



Aircraft Parts

Under HS Code 8803

Only some subjected to STA 2010

Relevant Category Codes involved:

ML10 – Aircraft parts/ components which are specially designed, or modified for military purposes.

7A003 – Inertial Systems and specially designed components

9A001 – Aero gas turbine engines

9A003 – Specially designed assemblies and components



Dual Use Items – Category code

CATEGORY

- 0 – Nuclear Materials, Facilities & Equipment
- 1 – Special Materials and Related Equipment
- 2 – Materials Processing
- 3 – Electronics**
- 4 – Computers
- 5 – Telecommunications & Information Security
- 6 – Sensors & Lasers
- 7 – Navigation & Avionics
- 8 – Marine
- 9 – Aerospace & Propulsion

SUB-CATEGORY

- A – Systems, Equipment & Components**
- B – Test, Inspection & Production Equipment
- C – Materials
- D – Software
- E – Technology



REGIME ORIGIN

- 0 – Wassenaar Arrangement**
- 1 – Missile Technology Control Regime
- 2 – Nuclear Suppliers Group
- 3 – Australia Group
- 4 – Chemical Weapons Convention

Item's individual entry code



Example : ML 6

Ground vehicles and components, as follows:

- a. Ground vehicles and components therefor, specially designed or modified for military use;
- b. All wheel-drive vehicles capable of off-road use which have been manufactured or fitted with materials to provide ballistic protection to level III (or comparable national standard) or better.





Example : ML 13

Armoured or protective equipment, constructions and components, as follows:

- a. Armoured plate;
- b. Constructions of metallic or non-metallic materials or combinations thereof specially designed to provide ballistic protection;
- c. Helmets; or
- d. Body armour and protective garments,





2B120

POSITIONING TABLE (MOTION SIMULATORS)

Military Usage

Missile: Development, production, testing and calibration of inertial navigation and guidance instruments.

Commercial Usage

Testing of inertial navigation & guidance instruments for aircraft and spacecraft.





1C010/ 1C210

FIBROUS AND FILAMENTARY MATERIALS

Military Usage:

- Nuclear enrichment: high-speed rotors of gas centrifuges
- Missile: many structural components

Commercial Usage

Numerous uses, including aerospace and sporting equipment such as golf clubs, tennis rackets, pressure tanks, scuba tanks, sport cars and bicycles





6A008

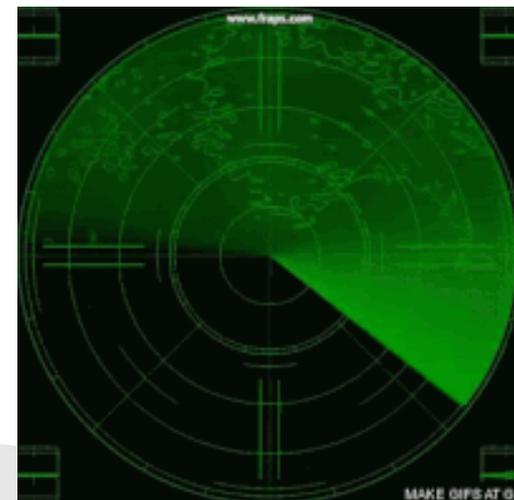
RADAR SYSTEMS

Military Usage

Missile: used for guidance in cruise missiles and unmanned air vehicles (UAVs). Terrain imaging systems compare the radar created image of the terrain with images stored in the vehicles computer.

Commercial Usage

Numerous uses, including aerospace and maritime industry and sporting activities, such as commercial and passenger vessels, fishing and recreational flight.





2B006/ 2B206

DIMENSIONAL INSPECTION MACHINES

Military Usage

Nuclear:

- Weaponization: inspection of parts used in nuclear explosive device components
- Enrichment: inspection of gas centrifuge components such as rotor tubes, end-caps, baffles, and scoops

Commercial Usage

Used throughout industry for the dimensions measurement of physical products obtained from machining operations or from other manufacturing processes.





3A225

FREQUENCY CHANGERS AND GENERATORS

Military Usage

Nuclear enrichment: to drive the high speed synchronous motors that spin the rotors of gas centrifuges in the enriched uranium production.

Commercial Usage

- Testing of electrical equipment (computers, cables, transformers)
- Vacuum turbo pump motor
- Testing of aircraft guidance and navigation equipment
- Driving of machine tool spindles, textile spindles and gas compressors





1C350

TRIETHANOLAMINE (CAS 102-71-6)

Military Usage

- Triethanolamine is a **precursor** for **nitrogen mustard gas**.

Commercial Usage

- It is extensively used in personal care products, including **soaps**,
- **shampoos, hair styling products** and **dyes, skin**
- **cleansers, and cosmetics**. It is also used in the textile industry.
- Triethanolamine serves as an **additive** for **cement, concrete, and polymers** (including **resins and rubber**).





How can you check?

1

Self check via :-

- Strategic Trade (Strategic Items) (Amendment) Order 2017
([http://www.miti.gov.my/miti/resources/STA%20Folder/PDF%20file/pua_20170331_P.U_.\(A\)90_.pdf](http://www.miti.gov.my/miti/resources/STA%20Folder/PDF%20file/pua_20170331_P.U_.(A)90_.pdf))
- Strategic Trade Item Finder
(http://www.miti.gov.my/index.php/sti/sti_finder)

2

Submission to the Secretariat :-

- admin.sts@miti.gov.my
- Product Classification
- End user detail



Product Specification



Ministry of International Trade and Industry

Example

To Whom It May Concern,

- Provide specific detailed end-use of the part 70959-33B (PUMP CENTRIF 5 GPM LEVITRONIX W/PLC INT), identify the specific operations to be performed by the part in support of the end-user's business activities
- Specification of this PUMP CENTRIF 5 GPM LEVITRONIX W/PLC INT

70959-33P has developed a revolutionary centrifugal pump that has no bearings to wear out or seals to break. Based on the principles of magnetic levitation, the pump's impeller is suspended contact-free inside a sealed casing and is driven by the magnetic field of the motor. The impeller and casing are both fabricated from chemical-resistant, high-purity fluorocarbon resins. Together with the rotor magnet they make up the pump head. Fluid flow rate and pressure are precisely controlled by electronically regulating rotor speed and eliminates pulsations. All wetted parts are made from high-purity fluorocarbon resins (PTFE, PFA, ECTFE). In addition, the rotor magnet is totally encapsulated and protected by two polymeric layers, eliminating the possibility for metallic contamination. The first layer is a proprietary coating with extremely low permeability and the second is a high-purity ECTFE or PFA layer that enhances chemical resistance.

- Picture of the column



- ECCN of Part

28350.i.4

Low Power Flash FPGAs Flash*Freeze Technology

Features and Benefits

- Low Power**
 - 1.2 V to 1.5 V Core Voltage Support for Low Power
 - Supports Single-Voltage System Operation
 - 5 μW Power Consumption in Flash*Freeze Mode
 - Low Power Active FPGA Operation
 - Flash*Freeze Technology Enables Ultra-Low Power Consumption while Maintaining FPGA Control
 - Easy Entry to JTAG from Ultra-Low Power Flash*Freeze Mode
- High Capacity**
 - 16K to 1 Million System Gates
 - Up to 16K Blocks of True Dual-Port SRAM
 - Up to 300 User I/Os
- Reprogrammable Flash Technology**
 - 130-nm, 7-Layer Metal, Flash-Based CMOS Process
 - Inherent On-Level 0 Support
 - Single-Chip Solution
 - Robust Programming Design When Powered Off
 - 250 MHz (1.5 V systems) and 160 MHz (1.2 V systems) System Performance
- In-System Programming (ISP) and Security**
 - ISP Using On-Chip 128-Bit Advanced Encryption Standard (AES) Decryption (except ARM*-enabled IGL00 devices) via JTAG (IEEE 1532-compliant)
 - FlashLock* Designed to Secure FPGA Contents
- High-Performance Routing Hierarchy**
 - Segmented, Hierarchical Routing and Clock Structure
- Advanced I/O**
 - 700 Mbits DDR, LVDS-Capable I/Os (AGL200 and above)
 - 1.2 V, 1.5 V, 1.8 V, 2.5 V, and 3.3 V Mixed-Voltage Operation
- Bank-Selectable I/O Voltages**—on 4 Banks per Chip
 - Single-Ended I/O Standards: LVTT*, LVCMOS 3.3 V / 2.5 V / 1.8 V / 1.5 V / 1.2 V, 3.3 V PCL1/3.3 V PCL3*, and LVCMOS 2.5 V / 1.5 V I/O Input
 - Differential I/O Standards: LVPECL, LVDS, BLVDS, and MLVDS (AGL250 and above)
 - Wide Range Power Supply Voltage Support per JEDEC48, Allowing I/Os to Operate from 2.7 V to 3.8 V
 - Wide Range Power Supply Voltage Support per JEDEC42, Allowing I/Os to Operate from 1.5 V to 1.55 V
 - I/O Registers on Input, Output, and Enable Paths
 - Hot-Swappable and Cold-Spring I/Os*
 - Programmable Output Drive Mode* and Drive Strength
 - Weak Pull-Up/Down
 - IEEE 1149.1 (JTAG) Boundary Scan Test
 - Pin-Compatible Packages across the IGL00 Family
- Clock Conditioning Circuit (CCC) and PLL†**
 - Six CCC Blocks, One with an Integrated PLL
 - Configurable Phase Shift, Multiphase, Delay Capabilities, and External Feedback
 - Wide Input Frequency Range (1.5 MHz up to 200 MHz)
- Embedded Memory**
 - 1 Mbit of Flash/ROM User Nonvolatile Memory
 - SRAMs and FIFOs with Variable Access Ratio 4,096-bit RAM Blocks (x1, x2, x4, x8, and x16 organizations)
 - True Dual-Port SRAM (except >16K)
- ARM Processor Support in IGL00 FPGAs**
 - 1M IGL00 Devices—Cortex™-M1 Soft Processor Available with or without Debug

IGL00 Devices	AGL015 ¹	AGL030	AGL060	AGL125	AGL250	AGL400	AGL800	AGL1000
ARM-Enabled IGL00 Devices ²	15,000	30,000	60,000	125,000	250,000	400,000	800,000	1,000,000
System Gates	15,000	30,000	60,000	125,000	250,000	400,000	800,000	1,000,000
Typical Equivalent Macrocells	126	250	512	1,024	2,048	—	—	—
Verilog Files (D-Flip-Flops)	284	768	1,536	3,072	6,144	8,192	13,824	24,576
Flash*Freeze Mode (Typical, μW)	5	5	10	18	36	32	36	53
RAM Bits (1,024 bits)	—	—	18	36	36	54	106	144
4,096-Bit Blocks	—	—	4	8	8	12	24	32
Flash/ROM Blocks (1,024 bits)	1	1	1	1	1	1	1	1
AES Protection ISP ³	—	—	Yes	Yes	Yes	Yes	Yes	Yes
Integrated PLL in PLLCC ⁴	—	—	1	1	1	1	1	1
Memshield Global ⁵	0	0	18	18	18	18	18	18
I/O Banks	2	2	2	2	4	4	4	4
Maximum User I/Os	40	81	98	133	143	194	235	350
Package Pins								
UCFC6		UG201 CS201	CS121 ³	CS198	CG201, CS196 ⁶	CS195	CG201	CG201
QFN	QN88	QN48, QN88	QN132	QN132	QN132 ^{6,7}	QN132 ^{6,7}		
VQFP		VQ100, VQ132	VQ100	VQ100	VQ100			
FBGA		FB144	FB144 ⁸	FB144	FB144	FB144, FB256	FB144, FB256, FB484	FB144, FB256, FB484

Notes:

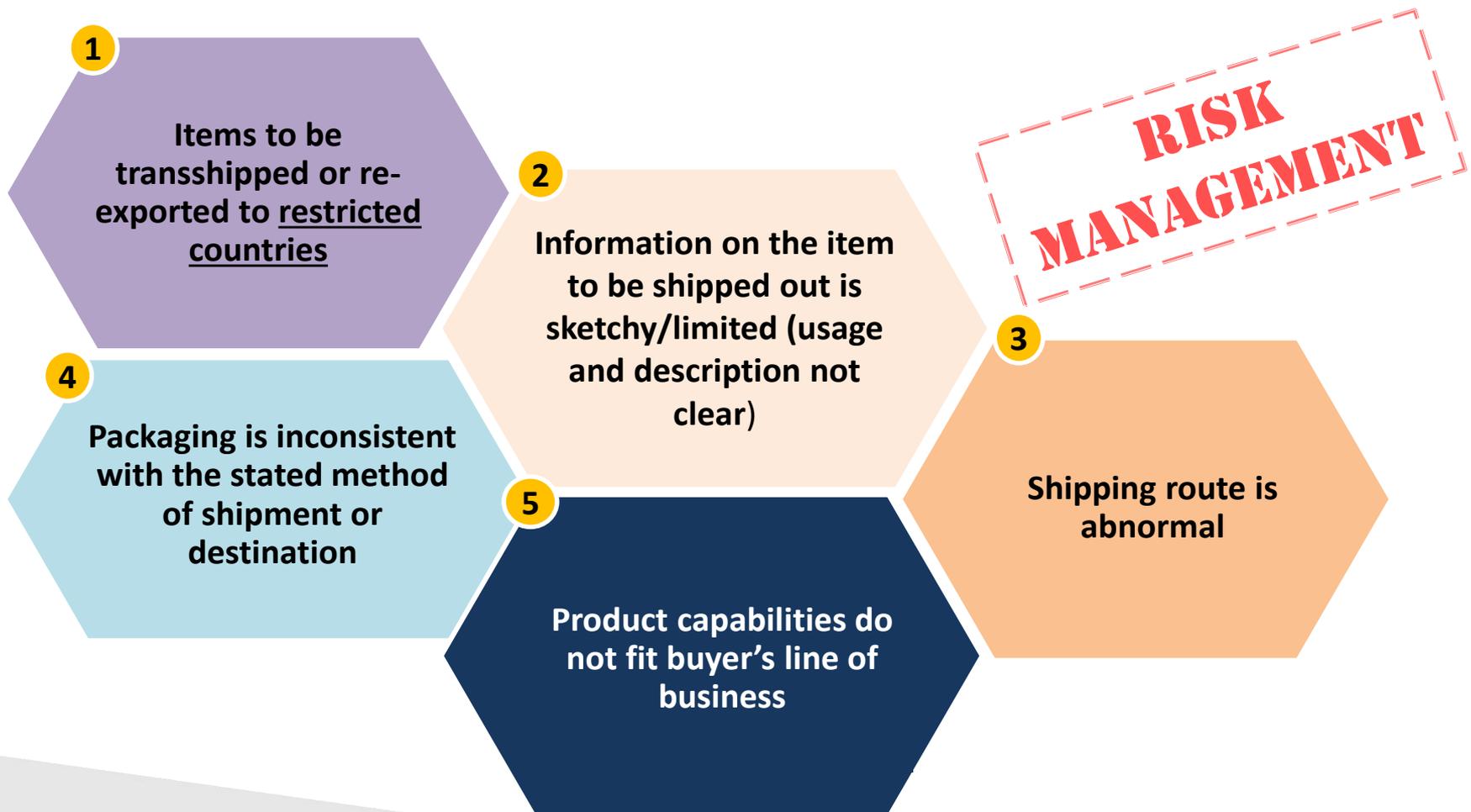
- AGL015 is not recommended for new designs
- AES is not available for ARM-enabled IGL00 devices
- AGL060 to CS121 does not support the PLL
- On-chip PLLs and device vendor's global networks are available for AGL060 and above
- The M1AGL250 device does not support this package
- Device/package support TSD
- The IGL000 database and IGL000 FPGA Fabric User's Guide provide information on higher densities and additional features

† AGL015 and AGL030 devices do not support this feature.

‡ Supported only by AGL015 and AGL030 devices



Red Flag Indicators



Regulation 25 – Transit & Transshipment



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Regulation 25

- Arrive or brought immediately into Free Commercial Zone (FCZ)
- Remain in FCZ
- Not exceeding 30 days



Not applicable to

- Restricted End User Destinations
- Schedule 3 of the STA Regulations

ISSUES

**Aircraft parts – commercial use
vs military use**



Aircraft parts procedure –
commercial use exempted

**Export of explosive items – e.g.
ammonium nitrate**



Cooperation with Royal
Malaysia Police (RMP) – RMP
permit required for exporting

**Acting on behalf of government
– repairs / exhibitions**



Regulation 22 – exemption on
behalf of government



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Trade and Industry

Thank you



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