Singapore Customs

Amendments to Strategic
Goods (Control) Order (SGCO)

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Table of Contents

Introduction	3
List of Military Goods	4
Definitions	4
ML7	5
ML8	7
ML10	7
ML11	9
ML18	9
ML19	10
List of Dual-Use Goods	12
Definitions	12
Acronyms and Abbreviations	12
Category 0	13
0B004	13
Category 1	14
1A003	14
1A007	15
1A202	16
1A225	16
1B001	16
1B228	17
1C011	18
1C350	18
1C351	19
Category 2	19
2B116	19
2B351	20
Category 3	21
3A001	21
3A002	22
3B001	25
3C003	27
3C004	27
Category 5 Part 1	27
5A001	

5A101	28
5D001	29
Category 5 Part 2	29
5A002	29
Category 6	33
6A001	33
6A002	36
6A003	40
6A005	41
6A006	41
6B004	43
6C005	43
6E003	44
Category 7	44
7A	44
7A003	44
7A105	45
Category 8	45
8A002	45
Category 9	47
9A006	47
9A108	47
9A121	48
9B009	48
9B010	48
9B105	49
9B107	49
9C108	50
9D004	50
9E003	51
Disclaimer	52

Introduction

As part of Singapore's international obligation to prevent the proliferation of weapons of mass destruction, Singapore Customs regularly updates our Strategic Goods Control List ("Control List") prescribed in the Schedule to the Strategic Goods (Control) Order (SGCO). With effect from 1 December 2025, the SGCO 2025 will replace the SGCO 2024.

The SGCO 2025 updates our Control List to align with the 2024 Wassenaar Arrangement Munition List ("WAML") and the 2024 European Union List of Dual-Use Items ("EUDL").

This document outlines the amendments to the SGCO 2024, presenting a side-by-side comparison of the 2024 and 2025 versions in a table format.

List of Military Goods

Definitions

Category Code	SGCO 2024	SGCO 2025
"additives" (ML8)	"additives" (ML8) means substances used in explosive formulations	-
	to improve their properties;	
"automated	"automated command and control systems" (ML11) means electronic	<mark>=</mark>
command and	systems, through which information essential to the effective	
control systems"	operation of the grouping, major formation, tactical formation, unit,	
(ML11)	ship, subunit or weapons under command is entered, processed and	
	transmitted. This is achieved by the use of computer and other	
	specialised hardware designed to support the functions of a military	
	command and control organisation. The main functions of an	
	automated command and control system are the efficient automated	
	collection, accumulation, storage and processing of information; the	
	display of the situation and the circumstances affecting the preparation	
	and conduct of combat operations; operational and tactical calculations for the allocation of resources among force groupings or	
	elements of the operational order of battle or battle deployment	
	according to the mission or stage of the operation; the preparation of	
	data for appreciation of the situation and decision-making at any point	
	during operation or battle; and computer simulation of operations;	
"biopolymers"	"biopolymers" (ML7) means any of the following biological	_
(ML7)	macromolecules:	
` '		
	a. Enzymes for specific chemical or biochemical reactions;	
	b. 'Anti idiotypic antibodies', 'monoclonal antibodies' or	
	'polyclonal antibodies'; or	
	c. Specially designed or specially processed 'receptors';	
	<u>Technical Notes</u>	
	1. 'Anti idiotypic antibodies' means antibodies which	
	bind to the specific antigen binding sites of other	
	antibodies.	
	2. 'Monoclonal antibodies' means proteins which bind to	

Category Code	SGCO 2024	SGCO 2025
"expression vectors" (ML7) "spacecraft" (ML11)	one antigenic site and are produced by a single clone of cells. 3. 'Polyclonal antibodies' means a mixture of proteins which bind to the specific antigen and are produced by more than one clone of cells. 4. 'Receptors' means biological macromolecular structures capable of binding ligands, the binding of which affects physiological functions. "expression vectors" (ML7) means carriers (e.g. plasmid and virus) used to introduce genetic material into host cells; "spacecraft" (ML11) means active and passive satellites and space probes;	"spacecraft" (ML11) means a craft designed to operate in, persist in or transit through space in the form of a satellite, space probe or space vehicle; Note "Spacecraft" does not include landers, rovers, or other craft, limited by design to operate on or beneath the surface of, or in the atmosphere of an extra-terrestrial celestial body, or "sub-orbital craft".
"sub-orbital craft" (ML10)		"sub-orbital craft" (ML10) means a craft having an enclosure designed for the transport of people or cargo, which is designed to: a. Operate above the stratosphere; b. Only perform nonorbital trajectories; and c. Land back on Earth with the people or cargo intact;

ML7.h. Technical	Chemical agents, "biological agents", "riot control agents",	Chemical agents, "biological agents", "riot control agents",
Notes	radioactive materials, related equipment, components and materials, as follows:	radioactive materials, related equipment, components and materials, as follows:
	as follows.	as follows.
	h. "Biopolymers" specially designed or processed for the detection or identification of CW agents specified in Category Code ML7.b., and the cultures of specific cells used to produce them;	h. 'Biopolymers' specially designed or processed for the detection or identification of CW agents specified in Category Code ML7.b., and the cultures of specific cells used to produce them;

		Technical Notes For the purpose of Category Code ML7.h.: 1. 'Biopolymers' are biological macromolecules as follows: a. Enzymes for specific chemical or biochemical reactions; b. 'Anti-idiotypic', 'monoclonal' or 'polyclonal' 'antibodies'; c. Specially designed or specially processed 'receptors'; 2. 'Anti-idiotypic antibodies' means antibodies which bind to the specific antigen binding sites of other antibodies; 3. 'Monoclonal antibodies' means proteins which bind to one antigenic site and are produced by a single clone of cells; 4. 'Polyclonal antibodies' means a mixture of proteins which bind to the specific antigen and are produced by more than one clone of cells; 5. 'Receptors' means biological macromolecular structures capable of binding ligands, the binding of which affects physiological functions.
ML7.i.2.a. Technical Note	Chemical agents, "biological agents", "riot control agents", radioactive materials, related equipment, components and materials, as follows: i. "Biocatalysts" for the decontamination or degradation of CW agents, and biological systems therefor, as follows:	Chemical agents, "biological agents", "riot control agents", radioactive materials, related equipment, components and materials, as follows: i. "Biocatalysts" for the decontamination or degradation of CW agents, and biological systems therefor, as follows:
	1. "Biocatalysts" specially designed for the decontamination or degradation of CW agents specified in Category Code ML7.b., and resulting from directed laboratory selection or genetic manipulation of biological systems;	"Biocatalysts" specially designed for the decontamination or degradation of CW agents specified in Category Code ML7.b., and resulting from directed laboratory selection or genetic manipulation of biological systems;
	2. Biological systems containing the genetic information specific to the production of "biocatalysts" specified in	2. Biological systems containing the genetic information specific to the production of "biocatalysts" specified in

Category Code ML7.i.1., as follows:	Category Code ML7.i.1., as follows:
a. "Expression vectors";	a. 'Expression vectors'; Technical Note For the purpose of Category Code ML7.i.2.a., 'expression vectors' are carriers (e.g. plasmid or virus) used to introduce genetic material into host cells.

ML8.f. Technical Note	"Energetic materials" and related substances, as follows:	"Energetic materials" and related substances, as follows:
Technical Note	f. "Additives" as follows:	f. 'Additives' as follows: Technical Note For the purpose of Category Code ML8.f., 'additives' are substances used in explosive formulations to improve their properties.
ML8 Note 1.k.	"Energetic materials" and related substances, as follows: Note 1 Category Code ML8 does not apply to the following substances unless they are compounded or mixed with the "energetic material" specified in Category Code ML8.a. or powdered metals specified in Category Code ML8.c.: No recognition and related 2 recognitions as (872.50.4).	"Energetic materials" and related substances, as follows: Note 1 Category Code ML8 does not apply to the following substances unless they are compounded or mixed with the "energetic material" specified in Category Code ML8.a. or powdered metals specified in Category Code ML8.c.: k. 1-methyl-2-pyrrolidinone (N-methyl-2-pyrrolidinone)
	k. N-pyrrolidinone; 1-methyl-2-pyrrolidinone (872-50-4);	k. 1-methyl-2-pyrrolidinone (N-methyl-2-pyrrolidinone) (872-50-4);

ML10,	"Aircraft", "lighter than air vehicles", "unmanned aerial vehicles"	"Aircraft", "lighter-than-air vehicles", "unmanned aerial vehicles"
ML10.g.,	("UAVs"), aero-engines and "aircraft" equipment, related equipment	("UAVs"), aero-engines, "sub-orbital craft" and "aircraft" equipment,

ML10.j.	and components, as follows, specially designed or modified for military use: g. Aircrew life support equipment, aircrew safety equipment and other devices for emergency escape, not specified in Category Code ML10.a., designed for "aircraft" specified in Category Code ML10.a.;	related equipment and components, as follows, specially designed or modified for military use: g. Aircrew life support equipment, aircrew safety equipment and other devices for emergency escape, not specified in Category Code ML10.a., designed for "aircraft" specified in Category Code ML10.a. or "sub-orbital craft" specified in Category Code ML10.j.;
	 -	 j. "Sub-orbital craft" and related equipment, as follows, and specially designed or modified components therefor: 1. "Sub-orbital craft"; 2. Launch equipment, recovery equipment and ground support equipment; 3. Equipment designed for command or control.
ML10 Note 3, ML10 Note 4	"Aircraft", "lighter than air vehicles", "unmanned aerial vehicles" ("UAVs"), aero-engines and "aircraft" equipment, related equipment and components, as follows, specially designed or modified for military use: Note 3 For the purposes of Category Codes ML10.a. and ML10.d., specially designed components and related equipment for non-military "aircraft" or aero engines modified for military use apply only to those military components and to military related equipment required for the modification to military use.	"Aircraft", "lighter-than-air vehicles", "unmanned aerial vehicles" ("UAVs"), aero-engines, "sub-orbital craft" and "aircraft" equipment, related equipment and components, as follows, specially designed or modified for military use: Note 3 For the purposes of Category Codes ML10.a., ML10.d. and ML10.j., specially designed components and related equipment for non-military "aircraft", aero engines or "sub-orbital craft" modified for military use apply only to those military components and to military related equipment required for the modification to military use.
	Note 4 For the purpose of Category Code ML10.a., military use includes: combat, military reconnaissance, assault, military training, logistics support, and transporting and airdropping troops or military	Note 4 For the purpose of Category Codes ML10.a. and ML10.j., military use includes: combat, military reconnaissance, assault, military training, logistics support, and transporting and airdropping troops or military

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Electronic equipment, "spacecraft" and components, not specified Electronic equipment, "spacecraft" and components, not specified ML11.j. Technical elsewhere in any part of this Division, as follows: elsewhere in any part of this Division, as follows: Note "Automated Command and Control Systems". 'Automated Command and Control Systems'. į. Technical Note For the purpose of Category Code ML11.a. Note j., 'Automated Command and Control Systems' are electronic systems, through which information essential to the effective operation of the grouping, major formation, tactical formation, unit, ship, subunit or weapons under command is entered, processed and transmitted. This is achieved by the use of computer and other specialised hardware designed to support the functions of a military command and control organisation. The main functions of an automated command and control system are: the efficient automated collection, accumulation, storage and processing of information; the display of the situation and the circumstances affecting the preparation and conduct of combat operations; operational and tactical calculations for the allocation of resources among force groupings or elements of the operational order of battle or battle deployment according to the mission or stage of the operation; the preparation of data for appreciation of the situation and decision-making at any point during operation or battle; computer simulation of operations.

ML18 Note	'Production' equipment, environmental test facilities and components,	'Production' equipment, environmental test facilities and components,
	as follows:	as follows:

<u>Note</u>	
	gory Codes ML18.a. and ML18.b. include the following
equip	<mark>ment:</mark>
a.	Continuous nitrators;
b.	Centrifugal testing apparatus or equipment, having any of the
	following characteristics:
	1. Driven by a motor or motors having a total rated
	horsepower of more than 298 kW (400 hp);
	2. Capable of carrying a payload of 113 kg or more; or
	3. Capable of exerting a centrifugal acceleration of 8 g or
	more on a payload of 91 kg or more;
<i>c</i> .	Dehydration presses;
d.	Screw extruders specially designed or modified for military
	"explosive" extrusion;
e.	Cutting machines for the sizing of extruded "propellants";
f.	Sweetie barrels (tumblers) 1.85 m or more in diameter and
	having over 227 kg product capacity;
g.	Continuous mixers for solid "propellants";
h.	Fluid energy mills for grinding or milling the ingredients of
	military "explosives";
i.	Equipment to achieve both sphericity and uniform particle
	size in metal powder listed in Category Code ML8.c.8.;
j.	Convection current converters for the conversion of materials
	listed in Category Code ML8.c.3.

ML19.a.,	Directed Energy Weapon (DEW) systems, related or countermeasure	Directed Energy Weapon (DEW) systems, related or countermeasure
ML19.b.,	equipment and test models, as follows, and specially designed	equipment and test models, as follows, and specially designed
ML19.c.	components therefor:	components therefor:
	a. "Laser" systems specially designed for destruction or	a. "Laser" 'weapon systems' not specified in Category Code
	effecting mission abort of a target;	ML19.f.;

	b. Particle beam systems capable of destruction or effecting mission abort of a target;	b. Particle beam 'weapon systems';c. High power Radio-Frequency (RF) 'weapon systems';
	c. High power Radio Frequency (RF) systems capable of destruction or effecting mission-abort of a target;	
ML19 Technical Note	Directed Energy Weapon (DEW) systems, related or countermeasure equipment and test models, as follows, and specially designed components therefor:	Directed Energy Weapon (DEW) systems, related or countermeasure equipment and test models, as follows, and specially designed components therefor:
	 -	<u>Technical Note</u> For the purpose of Category Code ML19, 'weapon systems' are
		designed to damage, destroy or effect mission abort of a target.

List of Dual-Use Goods

Definitions

Category Code	SGCO 2024	SGCO 2025
"charge	-	"charge multiplication" (Category 6) means a form of electronic
multiplication"		image amplification defined as the generation of charge carriers as a
(Category 6)		result of an impact ionisation gain process. "Charge multiplication"
		sensors may take the form of an image intensifier tube, solid state
		detector or "focal plane array";
"high output diesel	<mark>-</mark>	"high output diesel engines" (Category 9) means diesel engines with
engines"		a specified brake mean effective pressure of 1.8 MPa or more at a
(Category 9)		speed of 2,300 rpm, provided the rated speed is 2,300 rpm or more;
"insulation"	"insulation" (Category 9) means insulation that is applied to the	<u>-</u>
(Category 9)	components of a rocket motor, i.e. the case, nozzle, inlets, case	
	closures, and includes cured or semicured compounded rubber sheet	
	stock containing an insulating or refractory material. It may also be	
	incorporated as stress relief boots or flaps;	

Acronyms and Abbreviations

SGCO 2024	SGCO 2025	
-	First column	Second column
	Acronym or Abbreviation	Meaning
	AIP	Air Independent Propulsion
	CLONACC	Clobal Navigation Catallita System
	GLONASS	Global Navigation Satellite System
	SGCO 2024 -	- First column

Category 0 0B004

Category Code	SGCO 2024	SGCO 2025
0B004.a.	Plant for the production or concentration of heavy water, deuterium and deuterium compounds and specially designed or prepared equipment and components therefor, as follows: a. Plant for the production of heavy water, deuterium or deuterium compounds, as follows: 1. Water-hydrogen sulphide exchange plants; 2. Ammonia-hydrogen exchange plants;	Plant for the production or concentration of heavy water, deuterium and deuterium compounds and specially designed or prepared equipment and components therefor, as follows: a. Plant for the production of heavy water, deuterium or deuterium compounds, as follows: 1. Water-hydrogen sulphide exchange plants; 2. Ammonia-hydrogen exchange plants; 3. Combined Electrolysis and Catalytic Exchange (CECE) plants; 4. Combined Industrial Reforming and Catalytic Exchange (CIRCE) plants; 5. Bithermal HydrogenWater exchange (BHW) plants;
0B004.b.2., 0B004.b.3., 0B004.b.6., 0B004.b.8., 0B004.b.10.	Plant for the production or concentration of heavy water, deuterium and deuterium compounds and specially designed or prepared equipment and components therefor, as follows: b. Equipment and components, as follows:	Plant for the production or concentration of heavy water, deuterium and deuterium compounds and specially designed or prepared equipment and components therefor, as follows: b. Equipment and components, as follows:
	2. Single stage, low head (i.e. 0.2 MPa) centrifugal blowers or compressors for hydrogen sulphide gas circulation (i.e. gas containing more than 70% by weight of hydrogen sulphide, H ₂ S) with a throughput capacity greater than or equal to 56 m³/s when operating at pressures greater than or equal to 1.8 MPa suction and having seals designed for wet H ₂ S service;	2. Single stage, low head (i.e. 0.2 MPa) centrifugal blowers or compressors for hydrogen sulphide gas circulation (i.e. gas containing more than 70% by weight of hydrogen sulphide, H ₂ S) with a throughput capacity greater than or equal to 5 m³/s when operating at pressures greater than or equal to 1.8 MPa suction and having seals designed for wet H ₂ S service;
	3. Ammonia-hydrogen exchange towers greater than or equal to 35 m in height with diameters of 1.5 m to 2.5 m capable of operating at pressures greater than 15 MPa;	3. Ammonia-hydrogen exchange towers greater than or equal to 35 m in height with diameters of 1.5 m or greater capable of operating at pressures greater than 15 MPa;
I	6. Infrared absorption analysers capable of on-line	6. Not used;

Category Code	SGCO 2024	SGCO 2025
Category Code	hydrogen/deuterium ratio analysis where deuterium concentrations are equal to or greater than 90% by weight; 8. Complete heavy water upgrade systems, or columns therefor, for the upgrade of heavy water to reactor-grade deuterium concentration;	8. Complete heavy water finishing units, upgrade systems,
		following characteristics: a. Packed with random or structured wet proofed platinised catalysts; b. Constructed of carbon steel or stainless steel; c. Capable of operating with pressure in the range of 0.1 to 4 MPa; and d. Capable of operating at temperatures in the range of 293 K (20 °C) to 473 K (200 °C).

Category 1

Category Code	SGCO 2024	SGCO 2025
1A003 <i>Note</i>	Manufactures of non-"fusible" aromatic polyimides in film, sheet, tape or ribbon form having either of the following characteristics:	Manufactures of non-"fusible" aromatic polyimides in film, sheet, tape or ribbon form having either of the following characteristics:
	<u>Note</u>	<u>Note</u>
	Category Code 1A003 does not include manufactures when coated or laminated with copper and designed for the production of electronic printed circuit boards.	

1A007

Category Code	SGCO 2024	SGCO 2025
1A007 Technical Note	Equipment and devices, specially designed to initiate charges and devices containing "energetic materials", by electrical means, as follows: N.B. See also Division 2 of Part 1 of this Schedule, and Category Codes 3A229 and 3A232.	Equipment and devices, specially designed to initiate charges and devices containing "energetic materials", by electrical means, as follows: N.B. See also Division 2 of Part 1 of this Schedule, and Category Codes 3A229 and 3A232.
	 a. Explosive detonator firing sets designed to drive explosive detonators specified in Category Code 1A007.b.; b. Electrically driven explosive detonators as follows: 1. Exploding Bridge (EB); 2. Exploding Bridge Wire (EBW); 3. Slapper; 4. Exploding Foil Initiators (EFI). Technical Notes 1. The word initiator or igniter is sometimes used in place of the word detonator. 2. For the purpose of Category Code 1A007.b., the detonators of concern all utilise a small electrical conductor (bridge, bridge wire, or foil) that explosively vaporises when a fast, high-current electrical pulse is passed through it. In non slapper types, the exploding conductor starts a chemical detonation in a contacting high explosive material such as PETN (pentaerythritoltetranitrate). In slapper detonators, the explosive vaporisation of the electrical conductor drives a flyer or slapper across a gap, and the impact of the slapper on an explosive starts a chemical detonation. The slapper in some designs is driven by magnetic force. The term exploding foil detonator may refer to either an EB or a slapper-type detonator. 	Technical Note For the purpose of Category Code 1A007, the word initiator or igniter is sometimes used in place of the word detonator. a. Explosive detonator firing sets designed to drive explosive detonators specified in Category Code 1A007.b.; b. Electrically driven explosive detonators as follows: 1. Exploding Bridge (EB); 2. Exploding Bridge Wire (EBW); 3. Slapper; 4. Exploding Foil Initiators (EFI). Technical Note For the purpose of Category Code 1A007.b., the detonators of concern all utilise a small electrical conductor (bridge, bridge wire, or foil) that explosively vaporises when a fast, high-current electrical pulse is passed through it. In non slapper types, the exploding conductor starts a chemical detonation in a contacting high explosive material such as PETN (pentaerythritoltetranitrate). In slapper detonators, the explosive vaporisation of the electrical conductor drives a flyer or slapper across a gap, and the impact of the slapper on an explosive starts a chemical detonation. The slapper in some designs is driven by magnetic force. The term exploding foil detonator may refer to either an EB or a slapper-type detonator.

1A202

Category Code	SGCO 2024	SGCO 2025
1A202	Composite structures, other than those specified in Category Code 1A002, in the form of tubes and having both of the following characteristics:	
	a. An inside diameter of between 75 mm and 400 mm; and	a. An inside diameter of between 75 mm and 650 mm;
	b. Made with any of the "fibrous or filamentary materials" specified in Category Code 1C010.a. or 1C010.b. or 1C210.a. or with carbon prepreg materials specified in Category Code 1C210.c.	 b. A thickness of 12 mm or less; and c. Made with any of the "fibrous or filamentary materials" specified in Category Code 1C010.a. or 1C010.b. or 1C210.a. or with carbon prepreg materials specified in Category Code 1C210.c.

1A225

Category Code	SGCO 2024	SGCO 2025
1A225,	Platinised catalysts specially designed or prepared for promoting the	Wet-proofed platinised catalysts specially designed or prepared for
1A225 Technical	hydrogen isotope exchange reaction between hydrogen and water for	promoting the hydrogen isotope exchange reaction between
Note	the recovery of tritium from heavy water or for the production of	hydrogen and water for the recovery of tritium from water or for the
	heavy water.	production or upgrading of heavy water.
		<u>Technical Note</u>
		In heavy water moderated reactors, upgraders maintain the heavy
		water concentration in the reactor core. Wet-proofed platinised
		catalysts can also be used to upgrade heavy water.

1B001

Category Code	SGCO 2024	SGCO 2025
1B001	Equipment for the production or inspection of "composite" structures	Equipment designed for the "production" of "composite" structures
	or laminates specified in Category Code 1A002 or "fibrous or	or laminates or "fibrous or filamentary materials", as follows, and

	filamentary materials" specified in Category Code 1C010, as follows,	specially designed components and accessories therefor:
	and specially designed components and accessories therefor:	
1B001.d.,	Equipment for the production or inspection of "composite" structures	Equipment designed for the "production" of "composite" structures
1B001.e.,	or laminates specified in Category Code 1A002 or "fibrous or	or laminates or "fibrous or filamentary materials", as follows, and
1B001.e. Technical	filamentary materials" specified in Category Code 1C010, as follows,	specially designed components and accessories therefor:
Note	and specially designed components and accessories therefor:	
	d. Equipment specially designed or adapted for the production of	
	reinforcement fibres, as follows:	of "fibrous or filamentary materials" specified by Category Code
		1C010, as follows:
	e. Equipment for producing prepregs specified in Category	
	Code 1C010.e. by the hot melt method;	e. Equipment specially designed or modified for the production of
		prepregs by the 'hot melt method';
		<u>Technical Note</u>
		For the purpose of Category Code 1B001.e., the 'hot melt
		method' is the process of applying pressure and heat to
		impregnate "fibrous or filamentary materials" with resin that has
		been pre-laminated onto a carrier substrate, such as film or
		paper.

1B228

Category Code	SGCO 2024	SGCO 2025
1B228,	Hydrogen-cryogenic distillation columns having all of the following	Hydrogen-cryogenic distillation columns having all of the following
1B228 Technical	characteristics:	characteristics:
Notes 1,	a. Designed for operation with internal temperatures of 35 K (-	a. Designed for operation with internal temperatures in the range
1B228 Technical	238 °C) or less;	of 15 K (-258 °C) to 35 K (-238 °C);
Note 2	b. Designed for operation at an internal pressure of 0.5 MPa to 5	b. Designed for operation at internal pressures in the range of 0.1
	<mark>MPa</mark> ;	MPa to 1 MPa;
	c. Constructed of either:	c. Constructed of either:
	1. Stainless steel of the Society of Automotive Engineers	1. Austenitic stainless steel; or
	International (SAE) 300 series with low sulphur content	
	and with an austenitic ASTM (or equivalent standard)	hydrogen (H ₂)-compatible between 15 K (-258 °C) and 35

grain size number of 5 or greater; or 2. Equivalent materials which are both cryogenic and hydrogen (H2) compatible; and	K (-238 °C); and
Technical Note In Category Code 1B228, 'effective length' means the active height of packing material in a packed-type column, or the active height of internal contactor plates in a plate-type column.	Technical Note 1 In Category Code 1B228, 'effective length' means the active height of packing material in a packed-type column, or the active height of internal contactor plates in a plate-type column.
	Technical Note 2 Equivalent materials could include, but are not limited to, the following materials: a. aluminium; b. aluminium alloys; c. copper alloys; d. nickel alloys; and e. titanium alloys.

1C011

Category Code	SGCO 2024	SGCO 2025	
1C011.e.	Metals and compounds, as follows:	Metals and compounds, as follows:	
	d. Nitroguanidine (NQ) (556-88-7).	d. Nitroguanidine (NQ) (556-88-7).	
		e. Iodine pentafluoride (7783-66-6).	

1C350

Category Code	SGCO 2024	SGCO 2025	
1C350.90.	Chemicals, which may be used as precursors for toxic chemical	Chemicals, which may be used as precursors for toxic chemical	
	agents, as follows, and "chemical mixtures" containing one or more thereof:	agents, as follows, and "chemical mixtures" containing one or more thereof:	
	89. N,N-Dipropylisobutanamidine (1342700-45-1).	 89. N,N-Dipropylisobutanamidine (1342700-45-1);	

00 Dipropulating (142, 94, 7)
90. Dipropyramme (142-84-7).

1C351

Category Code	SGCO 2024	SGCO 2025
1C351.d.24.	Human and animal pathogens and "toxins", as follows:	Human and animal pathogens and "toxins", as follows:
	d. "Toxins", as follows, and "sub-unit of toxins" thereof:	d. "Toxins", as follows, and "sub-unit of toxins" thereof:
	23. Palytoxin;	23. Palytoxin; 24. Neosaxitoxin (NEO).

Category 2

2B116

Category Code	SGCO 2024	SGCO 2025
2B116.a., 2B116.a. Technical Note	Vibration test systems, equipment and components therefor, as follows: a. Vibration test systems employing feedback or closed loop	Vibration test systems, equipment and components therefor, as follows: a. 'Vibration test systems incorporating a digital controller' and
	techniques and incorporating a digital controller, capable of vibrating a system at an acceleration equal to or greater than 10 g rms between 20 Hz and 2 kHz while imparting forces equal to or greater than 50 kN, measured 'bare table';	employing feedback or closed loop techniques, capable of vibrating a system at an acceleration equal to or greater than 10 g rms between 20 Hz and 2 kHz while imparting forces equal to or greater than 50 kN, measured 'bare table'; Technical Note In Category Code 2B116.a., 'vibration test systems incorporating a digital controller' are those systems, the functions of which are, partly or entirely, automatically controlled by stored and digitally coded electrical signals.
2B116.b.,	Vibration test systems, equipment and components therefor, as	Vibration test systems, equipment and components therefor, as
2B116.c., 2B116.d.	follows:	follows:

b.	Digital controllers, combined with specially designed vibration test software, with a 'real time control bandwidth' greater than 5 kHz designed for use with vibration test systems specified in Category Code 2B116.a.;	b.	Digital controllers, combined with specially designed vibration test software, with a 'real time control bandwidth' greater than 5 kHz designed for use with systems specified in Category Code 2B116.a.;
c. d.	Vibration thrusters (shaker units), with or without associated amplifiers, capable of imparting a force equal to or greater than 50 kN, measured 'bare table', and usable in vibration test systems specified in Category Code 2B116.a.; Test piece support structures and electronic units designed to combine multiple shaker units in a system capable of providing an effective combined force equal to or greater than 50 kN, measured 'bare table', and usable in vibration systems specified in Category Code 2B116.a.	c.	Vibration thrusters (shaker units), with or without associated amplifiers, capable of imparting a force equal to or greater than 50 kN, measured 'bare table', and usable in systems specified in Category Code 2B116.a.; Test piece support structures and electronic units designed to combine multiple shaker units in a system capable of providing an effective combined force equal to or greater than 50 kN, measured 'bare table', and usable in systems specified in Category Code 2B116.a.

2B351

Category Code	SGCO 2024	SGCO 2025
2B351.a.,	Toxic gas monitors and monitoring systems and their dedicated	Toxic gas monitors and monitoring systems and their dedicated
2B351.a. Technical	detecting components, other than those specified in Category Code	detecting components, other than those specified in Category Code
Note	1A004, as follows, and detectors, sensor devices, and replaceable	1A004, as follows, and detectors, sensor devices, and replaceable
	sensor cartridges therefor:	sensor cartridges therefor:
	a. Designed for continuous operation and usable for the	
	detection of Chemical Warfare (CW) agents or chemicals	detection of Chemical Warfare (CW) agents or chemicals
	specified in Category Code 1C350, at concentrations of less	specified in Category Code 1C350, with a 'minimum
	than 0.3 mg/m^3 ; or	detection limit' of less than 0.3 mg/m ³ ; or
		<u>Technical Note</u>
		The 'minimum detection limit' of toxic gas monitors or
		monitoring systems is the lowest detectable concentration of
		the analyte required to produce a signal greater than three
		times the standard deviation of the toxic gas monitor's or
		monitoring system's signal when measuring a blank sample.
		In the case of toxic gas monitors or monitoring systems
		having a deadband or programmed zero suppression, the
		'minimum detection limit' is the lowest detectable

	concentration required to produce a reading.

Category 3

Category Code	SGCO 2024	SGCO 2025
Category Code 3A001.b.7.a., 3A001.b.7.b., 3A001.b.7.c.2., 3A001.b.7.c.3.	Electronic items as follows: b. Microwave or millimetre wave items, as follows: 7. Converters and harmonic mixers having any of the following characteristics: a. Designed to extend the frequency range of "signal analysers" beyond 90 GHz; b. Designed to extend the operating range of signal generators as follows: 1. Beyond 90 GHz; 2. To an output power greater than 100 mW (20 dBm) anywhere within the frequency range exceeding 43.5 GHz but not exceeding 90 GHz; c. Designed to extend the operating range of network	Electronic items as follows: b. Microwave or millimetre wave items, as follows: 7. Converters and harmonic mixers having any of the following characteristics: a. Designed to extend the frequency range of "signal analysers" beyond 110 GHz; b. Designed to extend the operating range of signal generators as follows: 1. Beyond 110 GHz; 2. To an output power greater than 100 mW (20 dBm) anywhere within the frequency range exceeding 43.5 GHz but not exceeding 110 GHz;
3A001.b.9.	analysers as follows: 2. To an output power greater than 31.62 mW (15 dBm) anywhere within the frequency range exceeding 43.5 GHz but not exceeding 90 GHz; 3. To an output power greater than 1 mW (0 dBm) anywhere within the frequency range exceeding 90 GHz but not exceeding 110 GHz; or Electronic items as follows:	anywhere within the frequency range exceeding 43.5 GHz but not exceeding 110 GHz; 3. Not used; or
Technical Notes	b. Microwave or millimetre wave items, as follows:	b. Microwave or millimetre wave items, as follows:

9. Microwave Power Modules (MPM), consisting of, at least, a travelling-wave "vacuum electronic device", a "Monolithic Microwave Integrated Circuit" ("MMIC") and an integrated electronic power conditioner and having all of the following characteristics:

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Technical Notes

For the purpose of Category Code 3A001.b.9.:

1. To calculate the volume in Category Code 3A001.b.9.b., the following example is provided: for a maximum rated power of 20 W, the volume would be: 20 W × 10 cm³/W = 200 cm³.

2. The 'turn-on time' in Category Code 3A001.b.9.a. refers to the time from fully off to fully operational, i.e. it includes the warm-up time of the MPM.

9. Microwave Power Modules (MPM), consisting of, at least, a travelling-wave "vacuum electronic device", a "Monolithic Microwave Integrated Circuit" ("MMIC") and an integrated electronic power conditioner and having all of the following characteristics:

Technical Notes

- 1. For the purpose of Category Code 3A001.b.9.a., the 'turn-on time' refers to the time from fully-off to fully operational, i.e. it includes the warm-up time of the MPM.
- 2. To calculate the volume for the purpose of Category Code 3A001.b.9.b., the following example is provided: for a maximum rated power of 20 W, the volume would be: $20 \text{ W} \times 10 \text{ cm}^3/\text{W} = 200 \text{ cm}^3$.

Category Code	SGCO 2024	SGCO 2025
3A002.c.2.,	General purpose "electronic assemblies", modules and equipment,	General purpose "electronic assemblies", modules and equipment,
3A002.c.3.,	as follows:	as follows:
3A002.c.4.a.,		
3A002.c.4.b.	c. "Signal analysers", as follows:	c. "Signal analysers", as follows:
	 "Signal analysers" having a Displayed Average Noise Level (DANL) less (better) than -150 dBm/Hz anywhere within the frequency range exceeding 43.5 GHz but not exceeding 90 GHz; "Signal analysers" having a frequency exceeding 90 GHz; "Signal analysers" having both of the following 	 "Signal analysers" having a Displayed Average Noise Level (DANL) less (better) than -160 dBm/Hz anywhere within the frequency range exceeding 43.5 GHz but not exceeding 110 GHz; "Signal analysers" having a frequency exceeding 110 GHz;
	characteristics: a. 'Real time bandwidth' exceeding 170 MHz; and b. Having either of the following characteristics:	 4. "Signal analysers" having both of the following characteristics: a. 'Real time bandwidth' exceeding 520 MHz; and b. Having either of the following characteristics:

	 1. 100% probability of discovery with less than a 3 dB reduction from full amplitude due to gaps or windowing effects of signals having a duration of 15 μs or less; or 2. A 'frequency mask trigger' function with 100% probability of trigger (capture) for signals having a duration of 15 μs or less; 	 1. 100% probability of discovery with less than a 3 dB reduction from full amplitude due to gaps or windowing effects of signals having a duration of 8 μs or less; or 2. A 'frequency mask trigger' function with 100% probability of trigger (capture) for signals having a duration of 8 μs or less;
3A002.d.1. Technical Note	General purpose "electronic assemblies", modules and equipment, as follows: d. Signal generators having any of the following characteristics: 1. Specified to generate pulse-modulated signals having both of the following characteristics, anywhere within the frequency range exceeding 31.8 GHz but not exceeding 37 GHz:	General purpose "electronic assemblies", modules and equipment, as follows: d. Signal generators having any of the following characteristics: 1. Specified to generate pulse-modulated signals having both of the following characteristics, anywhere within the frequency range exceeding 31.8 GHz but not exceeding 37 GHz: Technical Note For the purpose of Category Code 3A002.d.1.a., 'pulse duration' is defined as the time interval from the point on the leading edge that is 50% of the pulse amplitude to the point on the trailing edge that is 50 % of the pulse amplitude.
3A002.d.2., 3A002.d.3.g., 3A002.d.4.a., 3A002.d.4.b., 3A002.d.5.d., 3A002.d.6., 3A002.d.6. <i>Note 1</i> , 3A002.d.6. <i>Technical Note</i>	General purpose "electronic assemblies", modules and equipment, as follows: d. Signal generators having any of the following characteristics: 2. An output power exceeding 100 mW (20 dBm) anywhere within the frequency range exceeding 43.5 GHz but not exceeding 90 GHz; 3. A "frequency switching time" as specified by any of the following:	General purpose "electronic assemblies", modules and equipment, as follows: d. Signal generators having any of the following characteristics: 2. An output power exceeding 100 mW (20 dBm) anywhere within the frequency range exceeding 43.5 GHz but not exceeding 110 GHz; 3. A "frequency switching time" as specified by any of the following:

- g. Less than 100 µs for any frequency change exceeding 5.0 GHz within the frequency range exceeding 75 GHz but not exceeding 90 GHz;
- 4. A Single Sideband (SSB) phase noise, in dBc/Hz, specified as being either of the following:
 - a. Less (better) than $-(126 + 20\log_{10}F 20\log_{10}f)$ anywhere within the range of $10 \text{ Hz} \le F \le 10 \text{ kHz}$ anywhere within the frequency range exceeding 3.2 GHz but not exceeding 90 GHz; or
 - b. Less (better) than -(206 $20log_{10}f$) anywhere within the range of 10 kHz < F \leq 100 kHz anywhere within the frequency range exceeding 3.2 GHz but not exceeding 90 GHz;

5. An 'RF modulation bandwidth' of digital baseband signals as specified by any of the following:

- a. Exceeding 2.2 GHz within the frequency range exceeding 4.8 GHz but not exceeding 31.8 GHz;
- b. Exceeding 550 MHz within the frequency range exceeding 31.8 GHz but not exceeding 37 GHz;
- c. Exceeding 2.2 GHz within the frequency range exceeding 37 GHz but not exceeding 75 GHz; or
- d. Exceeding 5.0 GHz within the frequency range exceeding 75 GHz but not exceeding 90 GHz; or

6. A maximum frequency exceeding 90 GHz;

Note 1

For the purpose of Category Code 3A002.d., the term signal generators includes arbitrary waveform and function generators.

Technical Notes

1. For the purpose of Category Code 3A002.d., the maximum frequency of an arbitrary waveform or function generator is

- g. Less than 100 µs for any frequency change exceeding 5.0 GHz within the frequency range exceeding 75 GHz but not exceeding 110 GHz;
- 4. A Single Sideband (SSB) phase noise, in dBc/Hz, specified as being either of the following:
 - a. Less (better) than -(126 + $20\log_{10}F$ $20\log_{10}f$) anywhere within the range of 10 Hz $\leq F \leq$ 10 kHz anywhere within the frequency range exceeding 3.2 GHz but not exceeding 110 GHz; or
 - b. Less (better) than - $(206 20\log_{10}f)$ anywhere within the range of 10 kHz < F \leq 100 kHz anywhere within the frequency range exceeding 3.2 GHz but not exceeding 110 GHz;

5. An 'RF modulation bandwidth' of digital baseband signals as specified by any of the following:

- a. Exceeding 2.2 GHz within the frequency range exceeding 4.8 GHz but not exceeding 31.8 GHz;
- b. Exceeding 550 MHz within the frequency range exceeding 31.8 GHz but not exceeding 37 GHz;
- c. Exceeding 2.2 GHz within the frequency range exceeding 37 GHz but not exceeding 75 GHz; or
- d. Exceeding 5.0 GHz within the frequency range exceeding 75 GHz but not exceeding 110 GHz; or
- 6. A maximum frequency exceeding 110 GHz;

Note 1

Category Code 3A002.d. includes arbitrary waveform and function generators.

Technical Note

For the purpose of Category Code 3A002.d., the maximum output frequency of an arbitrary waveform or function

	 calculated by dividing the sample rate, in samples per second, by a factor of 2.5. 2. For the purpose of Category Code 3A002.d.1.a., 'pulse duration' is defined as the time interval from the point on the leading edge that is 50% of the pulse amplitude to the point on the trailing edge that is 50% of the pulse amplitude. 	generator is calculated by dividing the sample rate, in samples per second, by a factor of 2.5.
3A002.e.1., 3A002.e.2.	General purpose "electronic assemblies", modules and equipment, as follows:	General purpose "electronic assemblies", modules and equipment, as follows:
311002.0.2.		
	 e. Network analysers having any of the following characteristics: An output power exceeding 31.62 mW (15 dBm) anywhere within the operating frequency range exceeding 43.5 GHz but not exceeding 90 GHz; An output power exceeding 1 mW (0 dBm) anywhere within the operating frequency range exceeding 90 GHz but not exceeding 110 GHz; 	 e. Network analysers having any of the following characteristics: 1. An output power exceeding 100 mW (20 dBm) anywhere within the operating frequency range exceeding 43.5 GHz but not exceeding 110 GHz; 2. Not used;

3B001

Category Code	SGCO 2024	SGCO 2025
3B001.a.2.	Equipment for the manufacturing of semiconductor devices or materials, as follows and specially designed components and accessories therefor:	Equipment for the manufacturing of semiconductor devices or materials, as follows and specially designed components and accessories therefor:
	a. Equipment designed for epitaxial growth, as follows: 2. Metal Organic Chemical Vapour Deposition (MOCVD) reactors designed for compound semiconductor epitaxial growth of material having two or more of the following elements: aluminium, gallium, indium, arsenic, phosphorus, antimony, or nitrogen;	a. Equipment designed for epitaxial growth, as follows: 2. Metal Organic Chemical Vapour Deposition (MOCVD) reactors designed for compound semiconductor epitaxial growth of material having two or more of the following elements: aluminium, gallium, indium, arsenic, phosphorus, antimony, oxygen or nitrogen;

3B001.e. *Technical Note 1*, 3B001.f.1.b., 3B001.f.1.b. *Technical Note*

Equipment for the manufacturing of semiconductor devices or materials, as follows and specially designed components and accessories therefor:

e. Automatic loading multi-chamber central wafer handling systems, having both of the following characteristics:

Technical Notes

1. For the purpose of Category Code 3B001.e.1., 'semiconductor process tools' refers to modular tools that provide physical processes for semiconductor production that are functionally different, such as deposition, implant or thermal processing.

- f. Lithography equipment as follows:
 - 1. Align and expose step and repeat (direct step on wafer) or step and scan (scanner) equipment for wafer processing using photo-optical or X-ray methods and having either of the following characteristics:
 - a. A light source wavelength shorter than 193 nm; or
 - b. Capable of producing a pattern with a "Minimum Resolvable Feature size" (MRF) of 45 nm or less;

Technical Note

For the purpose of Category Code 3B001.f.1.b., the "Minimum Resolvable Feature size" (MRF) is calculated by the following formula:

Equipment for the manufacturing of semiconductor devices or materials, as follows and specially designed components and accessories therefor:

e. Automatic loading multi-chamber central wafer handling systems, having both of the following characteristics:

Technical Notes

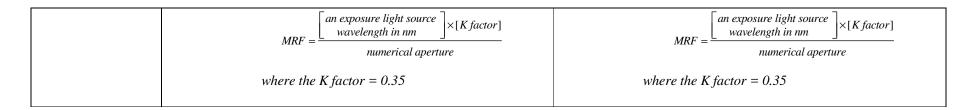
1. For the purpose of Category Code 3B001.e.1., 'semiconductor process tools' refers to modular tools that provide physical processes for semiconductor "production" that are functionally different, such as deposition, implant or thermal processing.

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- E. Lithography equipment as follows:
 - 1. Align and expose step and repeat (direct step on wafer) or step and scan (scanner) equipment for wafer processing using photo-optical or X-ray methods and having either of the following characteristics:
 - a. A light source wavelength shorter than 193 nm; or
 - b. Capable of producing a pattern with a 'Minimum Resolvable Feature size' (MRF) of 45 nm or less;

Technical Note

For the purpose of Category Code 3B001.f.1.b., the 'Minimum Resolvable Feature size' (MRF) is calculated by the following formula:



3C003

Category Code	SGCO 2024	SGCO 2025	
3C003.a., 3C003.b.	Organo inorganic compounds as follows:	Organo inorganic compounds as follows:	
	 a. Organo metallic compounds of aluminium, gallium or indium, having a purity (metal basis) better than 99.999%; b. Organo arsenic, organo antimony and organo phosphorus compounds, having a purity (inorganic element basis) better than 99.999%. 	having a purity (metal basis) greater (better) than 99.999%; b. Organo arsenic, organo antimony and organo phosphorus	

3C004

Category Code	SGCO 2024	SGCO 2025
	than 99.999%, even diluted in inert gases or hydrogen.	(better) than 99.999%, even diluted in inert gases or hydrogen.

Category 5 Part 1

Category Code	SGCO 2024	SGCO 2025	
5A001.b.2.b.	Telecommunications systems, equipment, componer accessories, as follows:	ents and Telecommunications systems, equipment, components accessories, as follows:	and

b.	Telecommunications systems and equipment, and specially designed components and accessories therefor, having any of the following characteristics, functions or features:	b.	Telecommunications systems and equipment, and specially designed components and accessories therefor, having any of the following characteristics, functions or features:
	2. Being radio equipment operating in the 1.5 MHz to 87.5 MHz band and having both of the following characteristics:		2. Being radio equipment operating in the 1.5 MHz to 87.5 MHz band and having both of the following characteristics:
	b. Incorporating a linear power amplifier configuration having a capability to support multiple signals simultaneously at an output power of 1 kW or more in the frequency range of 1.5 MHz or more but less than 30 MHz, or 250 W or more in the frequency range of 30 MHz or more but not exceeding 87.5 MHz, over an "instantaneous bandwidth" of one octave or more and with an output harmonic and distortion content of better than -80 dB;		b. Incorporating a linear power amplifier configuration having a capability to support multiple signals simultaneously at an output power of 1 kW or more in the frequency range of 1.5 MHz or more but less than 30 MHz, or 250 W or more in the frequency range of 30 MHz or more but not exceeding 87.5 MHz, over an "instantaneous bandwidth" of one octave or more and with an output harmonic and distortion content of less (better) than -80 dB;

Categ	gory Code	SGCO 2024	SGCO 2025
5A10	11 <i>Note c</i> .	Telemetry and telecontrol equipment, including ground equipment,	Telemetry and telecontrol equipment, including ground equipment,
		designed or modified for 'missiles'.	designed or modified for 'missiles'.
		<i>Note</i>	<u>Note</u>
		Category Code 5A101 does not include:	Category Code 5A101 does not include:
		a. Equipment designed or modified for manned aircraft or satellites;	a. Equipment designed or modified for manned aircraft or satellites;
		b. Ground based equipment designed or modified for terrestrial	b. Ground based equipment designed or modified for terrestrial or
		or marine applications;	marine applications;

С	c. Equipment designed for commercial, civil or 'Safety of Life'	c.	Equipment designed for commercial, civil or 'Safety of Life'
	(e.g. data integrity, flight safety) GNSS services.		(e.g. data integrity, flight safety) navigation satellite systems
			services.

5D001

5D001.e.,	"Software" as follows:	"Software" as follows:
5D001.e.2.		
	e. "Software", other than that specified in Category Code 5D001.a. or 5D001.c., specially designed or modified for monitoring or analysis by law enforcement, having both of the following characteristics:	Code 5D001.a. or 5D001.c., specially designed or modified
	2. Mapping of the relational network or tracking the movement of targeted individuals based on the results of searches on content of communication or metadata or searches as described in Category Code 5D001.e.1.	movement or location of targeted individuals based on

Category 5 Part 2

Category Code	SGCO 2024	SGCO 2025
5A002.a.,	"Information security" systems, equipment and components, as	"Information security" systems, equipment and components, as
5A002.a. Technical	follows:	follows:
Note 1,		
5A002.a. Technical	a. Designed or modified to use 'cryptography for data	a. Designed or modified to use 'cryptography for data
Note 2	confidentiality' having a 'described security algorithm', where	confidentiality' having a 'described security algorithm', as
	that cryptographic capability is usable, has been activated, or	follows:
	can be activated by any means other than secure "cryptographic	
	activation", as follows:	

Technical Notes

- 1. For the purpose of Category Code 5A002.a., 'cryptography for data confidentiality' means "cryptography" that employs digital techniques and performs any cryptographic function other than any of the following:
 - a. "Authentication";
 - b. Digital signature;
 - c. Data integrity;
 - d. Non repudiation;
 - e. Digital rights management, including the execution of copy protected "software";
 - f. Encryption or decryption in support of entertainment, mass commercial broadcasts or medical records management; or
 - g. Key management in support of any function described in paragraphs a. to f. above.

Technical Notes

- 1. For the purpose of Category Code 5A002.a., 'cryptography for data confidentiality' means "cryptography" that employs digital techniques for a cryptographic function or capability that is usable or can be made usable, other than any of the following:
 - a. "Authentication";
 - b. Digital signature;
 - c. Data integrity;
 - d. Non repudiation;
 - e. Digital rights management, including the execution of copy protected "software";
 - f. Encryption or decryption in support of entertainment, mass commercial broadcasts or medical records management;
 - g. Wireless "personal area network" functionality implementing only published or commercial cryptographic standards;
 - h. Cryptographic operations specially designed for and limited to banking use or money transactions, including the collection and settlement of fares or credit functions;
 - i. Key management in support of and limited to functions and capabilities described in paragraph a. to h. above; or
 - j. Cryptographic functions or capabilities that have not been activated or enabled, and can only be activated or enabled by means of secure "cryptographic activation".

N.B.

For 'cryptographic activation token' items, see Category Codes 5A002.b., 5D002.b. and 5E002.b.

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Note 2

Category Code 5A002.a. does not include any of the following items, or specially designed "information security" components therefor:

b. Cryptographic equipment specially designed and limited for banking use or 'money transactions';

Technical Note

For the purpose of Category Code 5A002.a. Note 2.b., 'money transactions' includes the collection and settlement of fares or credit functions.

e. Portable or mobile radiotelephones and similar client wireless devices for civil use, that implement only published or commercial cryptographic standards (except for anti-piracy functions, which may be non-published) and also meet the provisions of paragraphs a.2. and a.3. of the Cryptography Note (Note 3 in Category 5, Part 2), that have been customised for a specific civil industry application with features that do not affect the cryptographic functionality of these original non-customised devices;

f. Items, where the "information security" functionality is limited to wireless "personal area network" functionality, implementing only published or commercial cryptographic standards;

g. Mobile telecommunications Radio Access Network (RAN) equipment designed for civil use, which also meet the provisions of paragraphs a.2. and a.3. of the Cryptography Note (Note 3 to Category 5, Part 2), having an RF output power limited to 0.1 W (20 dBm) or less, and supporting

Note 2

Category Code 5A002.a. does not include any of the following items, or specially designed "information security" components therefor:

b. Not used;

- . Portable or mobile radiotelephones and similar client wireless devices, designed for civil use, that have been customised for a specific civil industry application, having all of the following characteristics:
 - 1. The non-customised devices satisfy the provisions of the Cryptography Note (Note 3 in Category 5 Part 2); and
 - 2. The 'cryptography for data confidentiality' having a 'described security algorithm' of the non-customised devices is not affected by the customisation, and implements only published or commercial cryptographic standards;

ſ

f. Not used;

g. Mobile telecommunications Radio Access Network (RAN) equipment designed for civil use, which also meet the provisions of paragraphs a.2. and a.3. of the Cryptography Note (Note 3 to Category 5, Part 2), having an RF output power limited to 0.1 W (20 dBm) or less, and supporting

16 or fewer concurrent users;

- h. Routers, switches, gateways or relays, where the "information security" functionality is limited to the tasks of "Operations, Administration or Maintenance" ("OAM") implementing only published or commercial cryptographic standards;
- i. General purpose computing equipment or servers, where the "information security" functionality meets both of the following:

- j. Items specially designed for a 'connected civil industry application', meeting both of the following:
 - 1. Being either of the following:
 - a. A network capable endpoint device meeting either of the following:
 - 1. The "information security" functionality is limited to securing 'non arbitrary data' or the tasks of "Operations, Administration or Maintenance" ("OAM"); or
 - 2. The device is limited to a specific 'connected civil industry application'; or
 - b. Networking equipment meeting both of the following:
 - 1. Being specially designed to communicate with the devices

32 or fewer concurrent users;

- h. Routers, switches, gateways or relays, where the 'cryptography for data confidentiality' having a 'described security algorithm' is limited to the tasks of "Operations, Administration or Maintenance" ("OAM") implementing only published or commercial cryptographic standards;
- i. General purpose computing equipment or servers, where the 'cryptography for data confidentiality' having a 'described security algorithm' has all of the following characteristics:
- j. Items specially designed for a 'connected civil industry application', having both of the following characteristics:
 - 1. Being either of the following:
 - a. A network capable endpoint device meeting either of the following:
 - 1. The 'cryptography for data confidentiality' having a 'described security algorithm' of the device is limited to securing 'non arbitrary data' or the tasks of "Operations, Administration or Maintenance" ("OAM"); or
 - 2. The device is limited to a specific 'connected civil industry application'; or
 - b. Networking equipment having both of the following characteristics:
 - 1. Being specially designed to communicate with the devices specified

specified in paragraph j.1.a. above;	in paragraph j.1.a. above; <u>and</u>
<u>and</u>	2. The <mark>'cryptography for data</mark>
2. The <mark>"information security"</mark>	confidentiality' having a 'described
<mark>functionality</mark> is limited to supporting	<mark>security algorithm'</mark> is limited to
the 'connected civil industry	supporting the 'connected civil
application' of devices specified in	industry application' of devices
paragraph j.1.a. above, or the tasks of	specified in paragraph j.1.a. above, or
"OAM" of this networking equipment	the tasks of "OAM" of this networking
or of other items specified in	equipment or of other items specified
paragraph j. of this Note; <u>and</u>	in paragraph j. of this Note; <u>and</u>
2. Where the "information security" functionality	2. Where the 'cryptography for data confidentiality'
implements only published or commercial	having a 'described security algorithm' implements
cryptographic standards, and the cryptographic	only published or commercial cryptographic
functionality cannot easily be changed by the user.	standards, and the cryptographic functionality
janctionality cannot easily be changed by the aser.	cannot easily be changed by the user.

Category 6

0/1001			
Category Code	SGCO 2024	SGCO 2025	
6A001.a.1.d.,	Acoustic systems, equipment and components, as follows:	Acoustic systems, equipment and components, as follows:	
6A001.a.1.d. Note			
	a. Marine acoustic systems, equipment and specially designed	a. Marine acoustic systems, equipment and specially designed	
	components therefor, as follows:	components therefor, as follows:	
	1. Active (transmitting or transmitting-and-receiving)	1. Active (transmitting or transmitting-and-receiving)	
	systems, equipment and specially designed	systems, equipment and specially designed components	
	components therefor, as follows:	therefor, as follows:	
	d. Acoustic systems and equipment, designed to	d. Acoustic systems and equipment, designed to	
	determine the position of surface vessels or	determine the position of surface vessels or	

	underwater vehicles and having both of the following characteristics, and specially designed components therefor: Note Category Code 6A001.a.1.d. includes: a. Equipment using coherent "signal processing" between two or more beacons and the	submersible vehicles and having both of the following characteristics, and specially designed components therefor: Note Category Code 6A001.a.1.d. includes: a. Equipment using coherent "signal processing" between two or more beacons and the	
	hydrophone unit carried by the surface vessel or <mark>underwater</mark> vehicle;	hydrophone unit carried by the surface vessel or submersible vehicle;	
6A001.a.2.a.4., 6A001.a.2.a.6.	Acoustic systems, equipment and components, as follows:	Acoustic systems, equipment and components, as follows:	
	a. Marine acoustic systems, equipment and specially designed components therefor, as follows:	a. Marine acoustic systems, equipment and specially designed components therefor, as follows:	
	2. Passive systems, equipment and specially designed components therefor, as follows:	2. Passive systems, equipment and specially designed components therefor, as follows:	
	a. Hydrophones having any of the following characteristics:	a. Hydrophones having any of the following characteristics:	
	4. A 'hydrophone sensitivity' better than 180 dB at any depth with no acceleration compensation;	4. A 'hydrophone sensitivity' greater (better) than 180 dB at any depth with no acceleration compensation;	
	6. Designed for operation at depths exceeding 1,000 m and having a 'hydrophone sensitivity' better than 230 dB below 4 kHz;	6. Designed for operation at depths exceeding 1,000 m and having a 'hydrophone sensitivity' greater (better) than 230 dB below 4 kHz;	
6A001.a.2.b. Technical Note,	Acoustic systems, equipment and components, as follows:	Acoustic systems, equipment and components, as follows:	
6A001.a.2.d.1.,	a. Marine acoustic systems, equipment and specially designed	a. Marine acoustic systems, equipment and specially designed	

6A001.a.2.g.2.	components therefor, as follows:		components therefor, as follows:	
		we systems, equipment and specially designed onents therefor, as follows:		assive systems, equipment and specially designed omponents therefor, as follows:
	ti	Towed acoustic hydrophone arrays having any of he following characteristics:		Towed acoustic hydrophone arrays having any of the following characteristics:
	2	. Hydrophone group spacing of less than 12.5 m or 'able to be modified' to have hydrophone group spacing of less than 12.5 m; Designed or 'able to be modified' to operate at depths exceeding 35 m; Technical Note For the purpose of Category Code 6A001.a.2.b.2., 'able to be modified' in Category Codes 6A001.a.2.b.1. and 2. means having provisions to allow a change of the wiring or interconnections to alter hydrophone group spacing or operating depth limits. These provisions are: spare wiring exceeding 10% of the number of wires, hydrophone group spacing adjustment blocks or internal depth limiting devices that are adjustable or that control more than one hydrophone group.		 Hydrophone group spacing of less than 12.5 m or 'able to be modified' to have hydrophone group spacing of less than 12.5 m; Designed or 'able to be modified' to operate at depths exceeding 35 m; Heading sensors specified in Category Code 6A001.a.2.d.; Longitudinally reinforced array hoses; An assembled array of less than 40 mm in diameter; Not used; Hydrophone characteristics specified in Category Code 6A001.a.2.a.; or Accelerometer based hydro acoustic sensors specified in Category Code 6A001.a.2.g.; Technical Note For the purpose of Category Code 6A001.a.2.b., 'able to be modified' means having provisions to
	3.	6A001.a.2.d.;		allow a change of the wiring or interconnections to alter hydrophone group spacing or operating
	4.			depth limits. These provisions are: spare wiring
	5.			exceeding 10% of the number of wires,
		diameter;		hydrophone group spacing adjustment blocks or
	6.	Not used;		internal depth limiting devices that are
	7.	Hydrophone characteristics specified in		adjustable or that control more than one
		Category Code 6A001.a.2.a.; or		hydrophone group.

	8. Accelerometer based hydro acoustic sensors specified in Category Code 6A001.a.2.g.;
	d. Heading sensors having both of the following characteristics: 1. An "accuracy" of better than 0.5°; and d. Heading sensors having both of the following characteristics: 1. An "accuracy" of less (better) than 0.5°; and
	g. Accelerometer-based hydro-acoustic sensors having all of the following characteristics: g. Accelerometer-based hydro-acoustic sensors having all of the following characteristics: having all of the following characteristics:
	2. Having an overall 'acceleration sensitivity' better than 48 dB (reference 1,000 mV rms per 1 g); 2. Having an overall 'acceleration sensitivity' greater (better) than 48 dB (reference 1,000 mV rms per 1 g);
6A001.b.1.b., 6A001.b.2.	Acoustic systems, equipment and components, as follows: Acoustic systems, equipment and components, as follows:
0A001.0.2.	b. Correlation-velocity and Doppler-velocity sonar log equipment, designed to measure the horizontal speed of the equipment carrier relative to the seabed, as follows: Correlation-velocity and Doppler-velocity sonar log equipment, designed to measure the horizontal speed of the equipment carrier relative to the seabed, as follows:
	1. Correlation-velocity sonar log equipment having either of the following characteristics: 1. Correlation-velocity sonar log equipment having either of the following characteristics:
	b. Having speed "accuracy" better than 1% of speed; b. Having speed "accuracy" less (better) than 1% of speed; speed;
	2. Doppler-velocity sonar log equipment having speed "accuracy" better than 1% of speed; 2. Doppler-velocity sonar log equipment having speed "accuracy" less (better) than 1% of speed;

Category Code	SGCO 2024	SGCO 2025
6A002.a.2.	Optical sensors or equipment and components therefor, as follows:	Optical sensors or equipment and components therefor, as follows:
Technical Note,		

6A002.a.2.a.2.b.	a. Optical detectors as follows:	a. Optical detectors as follows:
	2. Image intensifier tubes and specially designed components therefor, as follows:	2. Image intensifier tubes and specially designed components therefor, as follows:
	Technical Note For the purpose of Category Code 6A002.a.2., 'charge multiplication' is a form of electronic image amplification and is defined as the generation of charge carriers as a result of an impact ionisation gain process. 'Charge multiplication' sensors may take the form of an image intensifier tube, solid state detector or "focal plane array".	
	a. Image intensifier tubes having all of the following characteristics:	a. Image intensifier tubes having all of the following characteristics:
	2. Electron image amplification using either of the following:	2. Electron image amplification using either of the following:
	b. An electron sensing device with a non-binned pixel pitch of 500 μm or less, specially designed or modified to achieve 'charge multiplication' other than by a microchannel plate; and	b. An electron sensing device with a non-binned pixel pitch of 500 µm or less, specially designed or modified to achieve "charge multiplication" other than by a microchannel plate; and
6A002.a.2.b.2.b.	Optical sensors or equipment and components therefor, as follows:	Optical sensors or equipment and components therefor, as follows:
	a. Optical detectors as follows:	a. Optical detectors as follows:
	2. Image intensifier tubes and specially designed components therefor, as follows:	2. Image intensifier tubes and specially designed components therefor, as follows:
	b. Image intensifier tubes having all of the following characteristics:	b. Image intensifier tubes having all of the following characteristics:

	2. Electron image amplification using either of the following: b. An electron sensing device with a non-binned pixel pitch of 500 μm or less, specially designed or modified to achieve 'charge multiplication' other	 2. Electron image amplification using either of the following: b. An electron sensing device with a non-binned pixel pitch of 500 μm or less, specially designed or modified to achieve "charge multiplication" other than by a
6A002.a.2.c.2.	Optical sensors or equipment and components therefor, as follows:	Optical sensors or equipment and components therefor, as follows:
	 a. Optical detectors as follows: 2. Image intensifier tubes and specially designed components therefor, as follows: 	 a. Optical detectors as follows: 2. Image intensifier tubes and specially designed components therefor, as follows:
	c. Specially designed components as follows 2. An electron sensing device with a non-binned	c. Specially designed components as follows 2. An electron sensing device with a non-binned
	pixel pitch of 500 µm or less, specially designed or modified to achieve 'charge multiplication' other than by a microchannel plate;	pixel pitch of 500 µm or less, specially designed or modified to achieve "charge multiplication" other than by a microchannel plate;
6A002.a.3. Note 2c., 6A002.a.3. Note 2d. Technical Note	Optical sensors or equipment and components therefor, as follows: a. Optical detectors as follows:	Optical sensors or equipment and components therefor, as follows: a. Optical detectors as follows:
	3. Non-"space-qualified" "focal plane arrays" as follows:	3. Non-"space-qualified" "focal plane arrays" as follows:
	Note 2 Category Code 6A002.a.3. does not include:	Note 2 Category Code 6A002.a.3. does not include:
	c. "Focal plane arrays" specially designed or	c. "Focal plane arrays" specially designed or

	modified to achieve 'charge multiplication' and limited by design to have a maximum "radiant sensitivity" of 10 mA/W or less for wavelengths exceeding 760 nm, having both of the following characteristics:	modified to achieve "charge multiplication" and limited by design to have a maximum "radiant sensitivity" of 10 mA/W or less for wavelengths exceeding 760 nm, having both of the following characteristics:
	d. Thermopile arrays having less than 5,130 elements. Technical Note 'Charge multiplication' is a form of electronic image amplification and is defined as the generation of charge carriers as a result of an impact ionisation gain process. 'Charge multiplication' sensors may take the form of an image intensifier tube, solid state detector or "focal plane array".	d. Thermopile arrays having less than 5,130 elements.
6A002.a.3.a.2.b., 6A002.a.3.b.2.b.	Optical sensors or equipment and components therefor, as follows: a. Optical detectors as follows:	Optical sensors or equipment and components therefor, as follows: a. Optical detectors as follows:
	3. Non-"space-qualified" "focal plane arrays" as follows: a. Non-"space-qualified" "focal plane arrays" having both of the following characteristics: 2. Either of the following characteristics: b. Specially designed or modified to achieve 'charge multiplication' and having a maximum "radiant sensitivity" exceeding 10 mA/W; b. Non-"space-qualified" "focal plane arrays" having both of the following characteristics:	3. Non-"space-qualified" "focal plane arrays" as follows: a. Non-"space-qualified" "focal plane arrays" having both of the following characteristics: 2. Either of the following characteristics b. Specially designed or modified to achieve "charge multiplication" and having a maximum "radiant sensitivity" exceeding 10 mA/W; b. Non-"space-qualified" "focal plane arrays" having both of the following characteristics:

	2. Have either of the following characteristics:	2. Have either of the following characteristics:
	b. Specially designed or modified to achieve 'charge multiplication' and having a maximum "radiant sensitivity" exceeding 10 mA/W;	b. Specially designed or modified to achieve "charge multiplication" and having a maximum "radiant sensitivity" exceeding 10 mA/W;
6A002.b. <i>Note</i>	Optical sensors or equipment and components therefor, as follows:	Optical sensors or equipment and components therefor, as follows:
	b. "Monospectral imaging sensors" and "multispectral imaging sensors", designed for remote sensing applications and having either of the following characteristics:	b. "Monospectral imaging sensors" and "multispectral imaging sensors", designed for remote sensing applications and having either of the following characteristics:
	Note Category Code 6A002.b.1. does not include "monospectral imaging sensors" with a peak response in the wavelength range exceeding 300 nm but not exceeding 900 nm and only incorporating either of the following non "space qualified" detectors or non "space qualified" "focal plane arrays": a. Charge Coupled Devices (CCD) not designed or modified to achieve 'charge multiplication'; or b. Complementary Metal Oxide Semiconductor (CMOS) devices not designed or modified to achieve 'charge multiplication'.	Note Category Code 6A002.b.1. does not include "monospectral imaging sensors" with a peak response in the wavelength range exceeding 300 nm but not exceeding 900 nm and only incorporating either of the following non "space qualified" detectors or non "space qualified" "focal plane arrays": a. Charge Coupled Devices (CCD) not designed or modified to achieve "charge multiplication"; or b. Complementary Metal Oxide Semiconductor (CMOS) devices not designed or modified to achieve "charge multiplication".

Category Code	SGCO 2024	SGCO 2025
6A003.a.3.	Cameras, systems or equipment, and components therefor, as follows:	Cameras, systems or equipment, and components therefor, as follows:
	a. Instrumentation cameras and specially designed components therefor, as follows:	a. Instrumentation cameras and specially designed components therefor, as follows:
	3. Electronic streak cameras having temporal resolution better	3. Electronic streak cameras having temporal resolution less

than 50 ns:	better) than :	50 ns;
than 50 hs,	better) man.	50 lis,

Category Code	SGCO 2024	SGCO 2025
6A005.f.3.a., 6A005.g.2., 6A005.g.4.	"Lasers", other than those specified in Category Code 0B001.g.5. or 0B001.h.6., components and optical equipment, as follows: f. Optical equipment as follows: 3. Optical equipment and components, specially designed for coherent beam combination in a phased-array "SHPL" system and having either of the following characteristics: a. An "accuracy" of 0.1 μm or less, for wavelengths greater than 1 μm; or	"Lasers", other than those specified in Category Code 0B001.g.5. or 0B001.h.6., components and optical equipment, as follows: f. Optical equipment as follows: 3. Optical equipment and components, specially designed for coherent beam combination in a phased-array "SHPL" system and having either of the following characteristics: a. An "accuracy" of 0.1 μm or less (better), for wavelengths greater than 1 μm; or
	g. 'Laser acoustic detection equipment' having all of the following characteristics: 2. "Laser" frequency stability equal to or better (less) than 10 MHz; 4. Optical system resolution better (less) than 1 nm; and	g. 'Laser acoustic detection equipment' having all of the following characteristics: 2. "Laser" frequency stability equal to or less (better) than 10 MHz; 4. Optical system resolution less (better) than 1 nm; and

Category Code	SGCO 2024	SGCO 2025
6A006.a.,	"Magnetometers", "magnetic gradiometers", "intrinsic magnetic	"Magnetometers", "magnetic gradiometers", "intrinsic magnetic
6A006.b.,	gradiometers", underwater electric field sensors, "compensation	gradiometers", underwater electric field sensors, "compensation
6A006.c.	systems", and specially designed components therefor, as follows:	systems", and specially designed components therefor, as follows:
	a. "Magnetometers" and sub systems, as follows:	a. "Magnetometers" and sub systems, as follows:

- 1. "Magnetometers" using "superconductive" (SQUID) "technology" and having either of the following:
 - a. SQUID systems designed for stationary operation, without specially designed sub systems designed to reduce in motion noise, and having a 'sensitivity' equal to or lower (better) than 50 fT (rms) per square root Hz at a frequency of 1 Hz; or
 - b. SQUID systems having an in-motion magnetometer 'sensitivity' lower (better) than 20 pT (rms) per square root Hz at a frequency of 1 Hz and specially designed to reduce in motion noise;
- 2. "Magnetometers" using optically pumped or nuclear precession (proton/Overhauser) "technology" having a 'sensitivity' lower (better) than 20 pT (rms) per square root Hz at a frequency of 1 Hz;
- 3. "Magnetometers" using fluxgate "technology" having a 'sensitivity' equal to or lower (better) than 10 pT (rms) per square root Hz at a frequency of 1 Hz;
- 4. Induction coil "magnetometers" having a 'sensitivity' lower (better) than any of the following:
 - a. 0.05 nT (rms) per square root Hz at frequencies of less than 1 Hz;
 - b. 1×10^{-3} nT (rms) per square root Hz at frequencies of 1 Hz or more but not exceeding 10 Hz; or
 - c. 1×10^{-4} nT (rms) per square root Hz at frequencies exceeding 10 Hz;
- 5. Fibre optic "magnetometers" having a 'sensitivity' lower (better) than 1 nT (rms) per square root Hz;
- b. Underwater electric field sensors having a 'sensitivity' lower (better) than 8 nanovolt per metre per square root Hz when measured at 1 Hz;
- c. "Magnetic gradiometers" as follows:
 - 1. "Magnetic gradiometers" using multiple "magnetometers"

- 1. "Magnetometers" using "superconductive" (SQUID) "technology" and having either of the following:
 - a. SQUID systems designed for stationary operation, without specially designed sub systems designed to reduce in motion noise, and having a 'sensitivity' equal to or less (better) than 50 fT (rms) per square root Hz at a frequency of 1 Hz; or
 - b. SQUID systems having an in-motion magnetometer 'sensitivity' less (better) than 20 pT (rms) per square root Hz at a frequency of 1 Hz and specially designed to reduce in motion noise;
- 2. "Magnetometers" using optically pumped or nuclear precession (proton/Overhauser) "technology" having a 'sensitivity' less (better) than 20 pT (rms) per square root Hz at a frequency of 1 Hz;
- 3. "Magnetometers" using fluxgate "technology" having a 'sensitivity' equal to or less (better) than 10 pT (rms) per square root Hz at a frequency of 1 Hz;
- 4. Induction coil "magnetometers" having a 'sensitivity' less (better) than any of the following:
 - a. 0.05 nT (rms) per square root Hz at frequencies of less than 1 Hz;
 - b. 1×10^{-3} nT (rms) per square root Hz at frequencies of 1 Hz or more but not exceeding 10 Hz; or
 - c. 1×10^{-4} nT (rms) per square root Hz at frequencies exceeding 10 Hz;
- 5. Fibre optic "magnetometers" having a 'sensitivity' less (better) than 1 nT (rms) per square root Hz;
- Underwater electric field sensors having a 'sensitivity' less (better) than 8 nanovolt per metre per square root Hz when measured at 1 Hz:
- c. "Magnetic gradiometers" as follows:
 - 1. "Magnetic gradiometers" using multiple

specified in Category Code 6A006.a.;	"magnetometers" specified in Category Code 6A006.a.;
2. Fibre optic "intrinsic magnetic gradiometers" having	2. Fibre optic "intrinsic magnetic gradiometers" having a
magnetic gradient field 'sensitivity' lower (better) than 0	magnetic gradient field 'sensitivity' less (better) than 0.3
nT/m (rms) per square root Hz;	nT/m (rms) per square root Hz;
3. "Intrinsic magnetic gradiometers", using "technology	" 3. "Intrinsic magnetic gradiometers", using "technology"
other than fibre optic "technology", having a magnet	other than fibre optic "technology", having a magnetic
gradient field 'sensitivity' lower (better) than 0.015 nT/	gradient field 'sensitivity' less (better) than 0.015 nT/m
(rms) per square root Hz;	(rms) per square root Hz;

6B004

Category Code	SGCO 2024	SGCO 2025	
6B004.a.	Optical equipment as follows:	Optical equipment as follows:	
	a. Equipment for measuring absolute reflectance to an "accuracy"	a. Equipment for measuring absolute reflectance to an "accuracy"	
	of equal to or better than 0.1% of the reflectance value;	of equal to or less (better) than 0.1% of the reflectance value;	

6C005

Category Code	SGCO 2024	SGCO 2025
6C005.b. Note,	"Laser" materials as follows:	"Laser" materials as follows:
6C005.b. Technical		
Note	b. Rare-earth-metal doped double-clad fibres having either of the following characteristics:	b. Rare-earth-metal doped double-clad fibres having either of the following characteristics:
	Technical Notes 1. For the purpose of Category Code 6C005.b.1.b., the core 'Numerical Aperture' ('NA') is measured at the emission wavelengths of the fibre. 2. Category Code 6C005.b. includes fibres assembled with end caps.	Note Category Code 6C005.b. includes fibres assembled with end caps. Technical Note For the purpose of Category Code 6C005.b., the core 'Numerical Aperture' ('NA') is measured at the emission wavelengths of the fibre.

6E003

Category Code	SGCO 2024	SGCO 2025
6E003.a.2.	Other "technology", as follows:	Other "technology", as follows:
	a. "Technology" as follows:	a. "Technology" as follows:
	2. "Technology" for the fabrication of optics using single	2. "Technology" for the fabrication of optics using single
	point diamond turning techniques to produce surface	point diamond turning techniques to produce surface
	finish "accuracies" of better than 10 nm rms on non-	finish "accuracies" of less (better) than 10 nm rms on
	planar surfaces exceeding 0.5 m ² ;	non-planar surfaces exceeding 0.5 m ² ;

Category 7

7A

Category Code	SGCO 2024	SGCO 2025
7A <i>N.B</i> .	Systems, Equipment and Components	Systems, Equipment and Components
	<u>N.B.</u>	<u>N.B.</u>
	For automatic pilots for underwater vehicles, see Category 8. For	For automatic pilots for submersible vehicles, see Category 8. For
	radar, see Category 6.	radar, see Category 6.

Category Code	SGCO 2024	SGCO 2025
7A003.b. <i>Note</i>	'Inertial measurement equipment or systems', having any of the following characteristics:	'Inertial measurement equipment or systems', having any of the following characteristics:
	b. Designed for "aircraft", land vehicles or vessels, with an embedded 'positional aiding reference' and providing position after loss of all 'positional aiding references' for a period of up to 4 minutes, having an "accuracy" of less (better) than 10 meters "CEP";	embedded 'positional aiding reference' and providing position after loss of all 'positional aiding references' for a period of up
	Technical Note For the purpose of Category Code 7A003.b., this entry refers to systems in which 'inertial measurement equipment or systems' and other independent 'positional aiding references' are built	measurement equipment or systems' and other independent

into a single unit (i.e. embedded) in order to achieve improved performance.	(i.e. embedded) in order to achieve improved performance.

Category Code SC	GCO 2024	SGCO 2025
the foother	eceiving equipment for 'navigation satellite systems', other than lose specified in Category Code 7A005, having either of the ollowing characteristics, and specially designed components herefor: Note Category Codes 7A105.b.2. and 7A105.b.3. do not include equipment designed for commercial, civil or 'Safety of Life' (e.g. data integrity, flight safety) 'navigation satellite system' services. Category Code 7A105, 'navigation satellite system' includes to Category Co	Receiving equipment for 'navigation satellite systems', other than those specified in Category Code 7A005, having either of the following characteristics, and specially designed components therefor: Notes 1. Category Codes 7A105.b.2. and 7A105.b.3. do not include equipment designed for commercial, civil or 'Safety of Life' (e.g. data integrity, flight safety) navigation satellite system services. 2. In Category Code 7A105, 'navigation satellite system' includes Global Navigation Satellite Systems (GNSS; e.g. GPS, GLONASS, Galileo or BeiDou) and Regional Navigation Satellite Systems (RNSS; e.g. NavIC, QZSS).

Category 8

Category Code	SGCO 2024	SGCO 2025
8A002.a.4.	Marine systems, equipment and components, as follows:	Marine systems, equipment and components, as follows:
Technical Note,		
8A002.d.1.,	a. Systems, equipment and components, specially designed or	a. Systems, equipment and components, specially designed or
8A002.o.,	modified for submersible vehicles and designed to operate at	modified for submersible vehicles and designed to operate at
8A002.o.2.d.,	depths exceeding 1,000 m, as follows:	depths exceeding 1,000 m, as follows:
8A002.o.3.		
	4. Components manufactured from material specified in	4. Components manufactured from material specified in

Category Code 8C001; Category Code 8C001; Technical Note For the purpose of Category Code 8A002.a.4., this entry includes 'syntactic foam' specified in Category Code 8C001 when an intermediate stage of manufacture has been performed and it is not yet in the final component form. Underwater vision systems, having both of the following d. Underwater vision systems, having both of the following characteristics: characteristics: Specially designed or modified for remote operation with Specially designed or modified for remote operation with an underwater vehicle; and a submersible vehicle; and Propellers, power transmission systems, power generation Propellers, power transmission systems, power generation o. systems and noise reduction systems, as follows: systems and noise reduction systems and related equipment, as follows: Water-screw propeller, power generation systems or Water-screw propeller, power generation systems or transmission systems, designed for use on vessels, as transmission systems, designed for use on vessels, as follows: follows: d. Power transmission shaft systems incorporating d. Power transmission systems incorporating "composite" material components and capable of "composite" shafts and designed to transmit power transmitting more than 2 MW; exceeding 10 MW; Noise reduction systems designed for use on vessels of Noise reduction systems and related equipment, designed 1,000 tonnes displacement or more, as follows: for use on vessels of 1,000 tonnes displacement or more, as follows:

Category 9

9A006

Category Code	SGCO 2024	SGCO 2025
9A006.a.,	Systems and components, specially designed for liquid rocket	Systems and components, specially designed for liquid rocket
9A006.b.	propulsion systems, as follows:	propulsion systems, as follows:
	a. Cryogenic refrigerators, flightweight dewars, cryogenic heat pipes or cryogenic systems, specially designed for use in	pipes or cryogenic systems, designed to restrict cryogenic
	space vehicles and capable of restricting cryogenic fluid losses to less than 30% per year;	b. Cryogenic containers or closed-cycle refrigeration systems,
	b. Cryogenic containers or closed-cycle refrigeration systems, capable of providing temperatures of 100 K (-173 °C) or less for "aircraft" capable of sustained flight at speeds exceeding Mach 3, launch vehicles or "spacecraft";	equal to 100 K (-173.15 °C);

Category Code	SGCO 2024	SGCO 2025
9A108.a. <i>N.B.</i> ,	Components, other than those specified in Category Code 9A008, as	Components, other than those specified in Category Code 9A008, as
9A108.a. <i>Note</i>	follows, specially designed for solid and hybrid rocket propulsion systems:	follows, specially designed for solid and hybrid rocket propulsion systems:
	a. Rocket motor cases and "insulation" components therefor, usable in sub-systems specified in Category Code 9A007, 9A009, 9A107 or 9A109.a.;	a. Rocket motor cases and "insulation" components therefor, usable in sub-systems specified in Category Code 9A007, 9A009, 9A107 or 9A109.a.; N.B. For insulation material in bulk or sheet form, see also Category Code 9C108.
		Note In Category Code 9A108, insulation intended to be applied to the components of a rocket motor, i.e. the case, nozzle inlets, case closures, includes cured or semi-cured compounded rubber components comprising sheet stock containing an

	insulating or refractory material. It may also be incorporated as stress relief boots or flaps.
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Category Code	SGCO 2024	SGCO 2025
9A121 Note	Umbilical and interstage electrical connectors specially designed for "missiles", space launch vehicles specified in Category Code 9A004 or sounding rockets specified in Category Code 9A104.	Umbilical and interstage electrical connectors specially designed for "missiles", space launch vehicles specified in Category Code 9A004 or sounding rockets specified in Category Code 9A104.
	Technical Note Interstage connectors referred to in Category Code 9A121 also include electrical connectors installed between the "missile", space launch vehicle or sounding rocket and their payload.	Note In Category Code 9A121, interstage electrical connectors also include electrical connectors installed between the "missile", space launch vehicle or sounding rocket and their payload.

9B009

Category Code	SGCO 2024	SGCO 2025
9B009 <i>Note</i>	Tooling specially designed for producing gas turbine engine powder	Tooling specially designed for producing gas turbine engine powder
	metallurgy rotor components having both of the following	metallurgy rotor components having both of the following
	characteristics:	characteristics:
	<u>Note</u>	<u>Note</u>
	Category Code 9B009 does not include tooling for the production of	Category Code 9B009 does not include tooling for the "production"
	powder.	of powder.

9B010

Category Code	SGCO 2024	SGCO 2025
9B010		Equipment specially designed for the "production" of items specified in Category Code 9A012.

9B105

Category Code	SGCO 2024	SGCO 2025
9B105 <i>Notes</i> ,	'Aerodynamic test facilities' for speeds of Mach 0.9 or more, usable	Aerodynamic test facilities for speeds of Mach 0.9 or more, usable
9B105 Technical	for 'missiles' and their sub-systems.	for 'missiles' and their sub-systems.
Notes	<u></u>	<u></u>
	<u>Note</u>	<u>Notes</u>
	Category Code 9B105 does not include wind tunnels for speeds of	1. Category Code 9B105 includes wind tunnels and shock tunnels
	Mach 3 or less with dimension of the 'test cross section size' equal to	for the study of airflow over objects.
	or less than 250 mm.	2. Category Code 9B105 does not include wind tunnels for speeds
		of Mach 3 or less and having a 'test cross section size' equal to
		or less than 250 mm.
	Technical Notes	Technical Notes
	1. In Category Code 9B105, 'aerodynamics test facilities'	1. In Note to Category Code 9B105, 'test cross section size' means
	includes wind tunnels and shock tunnels for the study of	the diameter of the circle, or the side of the square, or the
	airflow over objects.	longest side of the rectangle, or the major axis of the ellipse at
	2. In Note to Category Code 9B105, 'test cross section size'	the largest 'test cross section' location. 'Test cross section' is
	means the diameter of the circle, or the side of the square, or	the section perpendicular to the flow direction.
	ellipse at the largest 'test cross section' location. 'Test cross	systems and unmanned aerial vehicle systems, capable of a
	section' is the section perpendicular to the flow direction.	range exceeding 300 km.
	3. In Category Code 9B105, 'missile' means complete rocket	
	systems and unmanned aerial vehicle systems capable of a range exceeding 300 km.	
	range exceeding 500 km.	

9B107

Category Code	SGCO 2024	SGCO 2025
9B107 Notes	'Aerothermodynamic test facilities', usable for 'missiles', 'missile'	Aerothermodynamic test facilities, usable for 'missiles', 'missile'
	rocket propulsion systems, and re-entry vehicles and equipment	rocket propulsion systems, and re-entry vehicles and equipment
	specified in Category Code 9A116, having either of the following	specified in Category Code 9A116, having either of the following
	characteristics:	characteristics:
	Technical Notes	Notes

range exceeding 300 km. range exceeding 300 km.		 2. 	'Aerothermodynamic test facilities' include plasma arc jet facilities and plasma wind tunnels for the study of thermal and mechanical effects of airflow on objects. In Category Code 9B107, 'missile' means complete rocket systems and unmanned aerial vehicle systems capable of a range exceeding 300 km.	2.	Category Code 9B107 includes plasma arc jet facilities and plasma wind tunnels for the study of thermal and mechanical effects of airflow on objects. In Category Code 9B107, 'missile' means complete rocket systems and unmanned aerial vehicle systems, capable of a range exceeding 300 km.
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9C108

Category Code	SGCO 2024	SGCO 2025
9C108,	"Insulation" material in bulk form and "interior lining", other than	Insulation material in bulk form and "interior lining", other than
9C108 <i>Note</i>	those specified in Category Code 9A008, for rocket motor cases usable in "missiles" or specially designed for solid propellant rocket engines specified in Category Code 9A007 or 9A107.	those specified in Category Code 9A008, for rocket motor cases usable in "missiles" or specially designed for solid propellant rocket engines specified in Category Code 9A007 or 9A107.
		Note In Category Code 9C108, insulation intended to be applied to the components of a rocket motor, i.e. the case, nozzle inlets or case closures, includes cured or semi-cured compounded rubber sheet stock containing an insulating or refractory material. It may also be incorporated as stress relief boots or flaps specified in Category Code 9A108.

9D004

Category Code	SGCO 2024	SGCO 2025
9D004.b. <i>Note</i>	Other "software" as follows:	Other "software" as follows:
	b. "Software" for testing aero gas turbine engines, assemblies or components, having both of the following characteristics:	b. "Software" for testing aero gas turbine engines, assemblies or components, having both of the following characteristics:
	<u>Note</u> <u>Category Code 9D004.b. does not include software for</u>	<u>Note</u> Category Code 9D004.b. does not include software for

operation of the test facility or operator safety (e.g. overspeed shutdown, fire detection and suppression), or production, repair or maintenance acceptance-testing limited to determining if the item has been properly assembled or repaired.	shutdown, fire detection and suppression), or "production", repair or maintenance acceptance-testing limited to
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9E003

Category Code	SGCO 2024	SGCO 2025
9E003.f., 9E003.g.,	Other "technology" as follows:	Other "technology" as follows:
9E003.g. Technical Note	f. "Technology" "required" for the "production" of specially designed components for high output diesel engines, as follows:	f. "Technology" "required" for the "production" of specially designed components for "high output diesel engines", as follows:
	g. "Technology" "required" for the "development" or "production" of 'high output diesel engines' for solid, gas phase or liquid film (or combinations thereof) cylinder wall lubrication and permitting operation to temperatures exceeding 723 K (450 °C), measured on the cylinder wall at the top limit of travel of the top ring of the piston;	g. "Technology" "required" for the "development" or "production" of "high output diesel engines" for solid, gas phase or liquid film (or combinations thereof) cylinder wall lubrication and permitting operation to temperatures exceeding 723 K (450 °C), measured on the cylinder wall at the top limit of travel of the top ring of the piston;
	Technical Note For the purpose of Category Code 9E003.g., 'high output diesel engines' are diesel engines with a specified brake mean effective pressure of 1.8 MPa or more at a speed of 2,300 rpm, provided the rated speed is 2,300 rpm or more.	

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