Singapore Customs

Key Amendments to Strategic Goods (Control) Order (SGCO)

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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 2026, the SGCO 2026 will replace the SGCO 2025.

The SGCO 2026 updates our Control List to align with the 2025 Wassenaar Arrangement Munition List ("WAML") and the 2025 European Union List of Dual-Use Items ("EUDL").

This document outlines the key amendments to the SGCO 2025, presenting a side-by-side comparison of the 2025 and 2026 versions in a table format.

List of Military Goods

Definitions

Category Code	SGCO 2025	SGCO 2026
"propellants" (ML8, ML18)	"propellants" (ML8, ML18) means substances or mixtures that react chemically to produce large volumes of hot gases at controlled rates to perform mechanical work;	"propellants" (ML8) means substances or mixtures that react chemically to produce large volumes of hot gases at controlled rates to perform mechanical work;
"pyrotechnic(s)" (ML2, ML4, ML8)	"pyrotechnic(s)" (ML4, ML8) means mixtures of solid or liquid fuels and oxidisers which, when ignited, undergo an energetic chemical reaction at a controlled rate intended to produce specific time delays, or quantities of heat, noise, smoke, visible light or infrared radiation. Pyrophorics are a subclass of "pyrotechnics", which contain no oxidisers but ignite spontaneously on contact with air;	"pyrotechnic(s)" (ML2, ML4, ML8) means mixtures of solid or liquid fuels and oxidisers which, when ignited, undergo an energetic chemical reaction at a controlled rate intended to produce specific time delays, or quantities of heat, noise, smoke, visible light or infrared radiation. Pyrophorics are a subclass of "pyrotechnics", which contain no oxidisers but ignite spontaneously on contact with air;
"Riot Control Agents" ("RCAs") (ML7)	"riot control agents" (ML7) means substances which, under the expected conditions of use for riot control purposes, produce rapidly in human sensory irritation or disabling physical effects which disappear within a short time following termination of exposure; *Technical Note* *Tear gases are a subset of "riot control agents".*	"Riot Control Agents" ("RCAs") (ML7) means substances which, under the expected conditions of use for riot control purposes, produce rapidly in human sensory irritation or disabling physical effects which disappear within a short time following termination of exposure; *Technical Note* *Tear gases are a subset of "riot control agents".* *Note* *"Riot Control Agents" ("RCAs") includes:* *1. α-Bromobenzeneacetonitrile, (Bromobenzyl cyanide) (CA) (5798-79-8);* *2. [(2-chlorophenyl) methylene] propanedinitrile, (o-Chlorobenzylidenemalononitrile) (CS) (2698-41-1);* *3. 2-Chloro-1-phenylethanone, Phenylacyl chloride (ω-chloroacetophenone) (CN) (532-27-4);* *4. Dibenz-(b,f)-1,4-oxazepine (CR) (257-07-8);* *5. 10-Chloro-5,10-dihydrophenarsazine, (Phenarsazine chloride), (Adamsite), (DM) (578-94-9);*

Category Code	SGCO 2025	SGCO 2026
		6. N-Nonanoylmorpholine, (MPA) (5299-64-9).

Acronyms and Abbreviations

Category Code	SGCO 2025		SGCO 2026	
C3I, C4I, DEW, EMCDB, GVWR, RCA, SDR	*First Column* *Acronym or Abbreviation*	*Second Column* *Meaning*	*First Column* *Acronym or Abbreviation*	*Second Column* *Meaning*
	-		C3I	Command, Communications, Control & Intelligence
	-		C4I	Command, Communications, Control, Computer & Intelligence
	-		DEW	Directed Energy Weapon
	-			
	-		EMCDB	Elastomer Modified Cast Double Base
	-		GVWR	Gross Vehicle Weight Rating
	-		RCA	Riot Control Agent
	-		SDR	Software Defined Radio

ML2

Category Code	SGCO 2025	SGCO 2026
ML2.b.3.	b. Projectors, specially designed or modified for military use, as follows: 1. Smoke canister projectors; 2. Gas canister projectors;	b. Projectors, specially designed or modified for military use, as follows: 1. Smoke canister projectors; 2. Gas canister projectors;

Category Code	SGCO 2025	SGCO 2026
	3. Pyrotechnics projectors;	3. “Pyrotechnic” device or cartridge projectors;

ML7

Category Code	SGCO 2025	SGCO 2026
ML7, ML7.d.	Chemical agents, “biological agents”, “riot control agents”, radioactive materials, related equipment, components and materials, as follows: --- d. “Riot control agents”, active constituent chemicals and combinations thereof, including: 1. α-Bromobenzeneacetonitrile, (Bromobenzyl cyanide) (CA) (5798-79-8); 2. [(2-chlorophenyl) methylene] propanedinitrile, (o-Chlorobenzylidenemalononitrile) (CS) (2698-41-1); 3. 2-Chloro-1-phenylethanone, Phenylacyl chloride (ω-chloroacetophenone) (CN) (532-27-4); 4. Dibenz-(b,f)-1,4-oxazephine, (CR) (257-07-8); 5. 10-Chloro-5,10-dihydrophenarsazine, (Phenarsazine chloride), (Adamsite), (DM) (578-94-9); 6. N-Nonanoylmorpholine, (MPA) (5299-64-9);	Chemical agents, “biological agents”, “Riot Control Agents” (“RCAs”), radioactive materials, related equipment, components and materials, as follows: --- d. “RCAs”, active constituent chemicals and combinations thereof;

ML8

Category Code	SGCO 2025	SGCO 2026
ML8.f.14.	f. ‘Additives’ as follows: ---	f. ‘Additives’ as follows: ---

Category Code	SGCO 2025	SGCO 2026
	14. 3-Nitraza-1,5-pentane diisocyanate (7406-61-9);	14. 3-Nitraza-1,5-pentane diisocyanate (7046-61-9);

ML10

Category Code	SGCO 2025	SGCO 2026
ML10.a. *Note 1*, ML10.a. *Note 2*	a. Manned "aircraft" and "lighter-than-air vehicles", and specially designed components therefor;	a. Manned "aircraft" and "lighter-than-air vehicles", and specially designed components therefor; *Note 1* *Category Code ML10.a. does not apply to "aircraft" and "lighter-than-air vehicles" or variants of those "aircraft", specially designed for military use and which are all of the following:* *a. Not a combat "aircraft";* *b. Not configured for military use and not fitted with equipment or attachments specially designed or modified for military use; and* *c. Certified for civil use by civil aviation authorities of one or more "participating states".* *Note 2* *Category Code ML10.a. does not apply to "aircraft" or "lighter-than-air vehicles" that have all the following characteristics:* *a. Were first manufactured before 1946;* *b. Do not incorporate items specified in any part of this Division, unless the items are required to meet safety or airworthiness standards of civil aviation authorities of one or more "participating states"; and* *c. Do not incorporate weapons specified in any part of this Division, unless inoperable and incapable of being returned to operation.*

Category Code	SGCO 2025	SGCO 2026
ML10.d. *Note*	d. Propulsion aero-engines and specially designed components therefor;	d. Propulsion aero-engines and specially designed components therefor; *Note* *Category Code ML10.d. does not apply to:* *a. Aero-engines designed or modified for military use which have been certified by civil aviation authorities of one or more "participating states" for use in "civil aircraft", or specially designed components therefor;* *b. Reciprocating engines or specially designed components therefor, except those specially designed for "UAVs";* *c. Aero-engines that were first manufactured before 1946.*
ML10.h.	h. Parachutes, paragliders and related equipment, as follows, and specially designed components therefor: 1. Parachutes not specified elsewhere in any part of this Division; 2. Paragliders; 3. Equipment specially designed for high altitude parachutists (e.g. suits, special helmets, breathing systems, navigation equipment);	h. Parachutes, paragliders and related equipment, as follows, and specially designed components therefor: 1. Cargo or personnel parachutes; *N.B.* *For other military parachutes, see the relevant Category Code in this Division.* 2. Paragliders; 3. Equipment specially designed for high altitude parachutists; *Note* *Category Code ML10.h.3. includes suits, helmets, breathing systems and navigation equipment.*

List of Dual-Use Goods

Definitions

Category Code	SGCO 2025	SGCO 2026
"accuracy" (Categories 2, 3, 6, 7)	"accuracy" (Categories 2, 3, 6, 7, 8), usually measured in terms of inaccuracy, means the maximum deviation, positive or negative, of an indicated value from an accepted standard or true value;	"accuracy" (Categories 2, 3, 6, 7), usually measured in terms of inaccuracy, means the maximum deviation, positive or negative, of an indicated value from an accepted standard or true value;
"basic gate propagation delay time" (Category 3)	"basic gate propagation delay time" (Category 3) means the propagation delay time value corresponding to the basic gate used in a "monolithic integrated circuit". For a 'family' of "monolithic integrated circuits", this may be specified either as the propagation delay time per typical gate within the given 'family' or as the typical propagation delay time per gate within the given 'family'; *Note 1* *"Basic gate propagation delay time" is not to be confused with the input or output delay time of a complex "monolithic integrated circuit".* *Note 2* *'Family' consists of all integrated circuits to which all of the following are applied as their manufacturing methodology and specifications except their respective functions:* *a. The common hardware and software architecture;* *b. The common design and process technology; and* *c. The common basic characteristics.*	-
"camming" (Category 2)	"camming" (Category 2) means axial displacement in one revolution of the main spindle measured in a plane perpendicular to the spindle faceplate, at a point next to the circumference of the spindle faceplate (Ref. ISO 230 1:1986, paragraph 5.63);	-

Category Code	SGCO 2025	SGCO 2026
"chemical laser" (Category 6)	"chemical laser" (Category 6) means a "laser" in which the excited species is produced by the output energy from a chemical reaction;	-
"communications channel controller" (Category 4)	"communications channel controller" (Category 4) means the physical interface which controls the flow of synchronous or asynchronous digital information. It is an assembly that can be integrated into computer or telecommunications equipment to provide communications access;	-
"data device" (Categories 4, 5)	-	"data device" (Categories 4, 5) means equipment capable of transmitting or receiving sequences of digital information;
"film type integrated circuit" (Category 3)	"film type integrated circuit" (Category 3) means an array of 'circuit elements' and metallic interconnections formed by deposition of a thick or thin film on an insulating "substrate"; *Technical Note* *'Circuit element' means a single active or passive functional part of an electronic circuit, such as one diode, one transistor, one resistor, one capacitor, etc.*	-
"information security" (NSN, GSN, GISN, Category 5)	"information security" (GSN, GISN, Category 5) means all the means and functions ensuring the accessibility, confidentiality or integrity of information or communications, excluding the means and functions intended to safeguard against malfunctions. "Information security" includes "cryptography", "cryptographic activation", 'cryptanalysis', protection against compromising emanations and computer security;	"information security" (NSN, GSN, GISN, Category 5) means all the means and functions ensuring the accessibility, confidentiality or integrity of information or communications, excluding the means and functions intended to safeguard against malfunctions. "Information security" includes "cryptography", "cryptographic activation", 'cryptanalysis', protection against compromising emanations and computer security;
"Laser" *N.B.* (Categories 0, 1, 2, 3, 5, 6, 7, 9)	"laser" (Categories 0, 1, 2, 3, 5, 6, 7, 9) means an item that produces spatially and temporally coherent light through amplification by stimulated emission of radiation;	"laser" (Categories 0, 1, 2, 3, 5, 6, 7, 9) means an item that produces spatially and temporally coherent light through amplification by stimulated emission of radiation;

Category Code	SGCO 2025	SGCO 2026
	N.B. *See also:* *- "Chemical laser";* *- "CW laser";* *- "Pulsed laser";* *- "Super High Power Laser".*	*N.B.* *See also:* *- "CW laser";* *- "Super High Power Laser".*
"Local area network" (Categories 4, 5)	"local area network" (Categories 4, 5) means a data communication system having both of the following characteristics: a. Allows an arbitrary number of independent 'data devices' to communicate directly with each other; and b. Is confined to a geographical area of moderate size (e.g. office building, plant, campus, warehouse); *Technical Note* *'Data device' means equipment capable of transmitting or receiving sequences of digital information.*	"local area network" (Categories 4, 5) means a data communication system having both of the following characteristics: a. Allows an arbitrary number of independent "data devices" to communicate directly with each other; and b. Is confined to a geographical area of moderate size (e.g. office building, plant, campus, warehouse); -
"Maintenance Level I" (Category 7)	-	"Maintenance Level I" (Category 7) means the failure of an inertial navigation unit is detected on the "aircraft" by indications from the Control and Display Unit (CDU) or by the status message from the corresponding sub-system. By following the manufacturer's manual, the cause of the failure may be localised at the level of the malfunctioning Line Replaceable Unit (LRU). The operator then removes the LRU and replaces it with a spare;
"Maintenance Level II" (Category 7)	-	"Maintenance Level II" (Category 7) means the defective LRU is sent to the maintenance workshop (the manufacturer's or that of the operator responsible for level II maintenance). At the maintenance workshop, the malfunctioning LRU is tested by various appropriate means to verify and localise the defective Shop Replaceable Assembly (SRA) module responsible for the failure. This SRA is removed and replaced by an operative spare. The defective SRA (or possibly the complete LRU) is then shipped to the manufacturer.

Category Code	SGCO 2025	SGCO 2026
		"Maintenance Level II" does not include the disassembly or repair of specified accelerometers or gyro sensors;
"Non-repetitive pulsed" (Category 6)	-	"non-repetitive pulsed" (Category 6) means "lasers" that produce either a single output pulse or that have a time interval between pulses exceeding one minute;
"network access controller" (Category 4)	"network access controller" (Category 4) means a physical interface to a distributed switching network. It uses a common medium which operates throughout at the same "digital transfer rate" using arbitration (e.g. token or carrier sense) for transmission. Independently from any other, it selects data packets or data groups (e.g. Ref. IEEE STD 802) addressed to it. It is an assembly that can be integrated into computer or telecommunications equipment to provide communications access;	-
"Optical switching" (Category 5)	"optical switching" (Category 5) means the routing of or switching of signals in optical form without conversion to electrical signals;	-
"overall current density" (Category 3)	"overall current density" (Category 3) means the total number of ampere-turns in the coil (i.e. the sum of the number of turns multiplied by the maximum current carried by each turn) divided by the total cross-section of the coil (comprising the superconducting filaments, the metallic matrix in which the superconducting filaments are embedded, the encapsulating material, any cooling channels, etc.);	-
"personal area network" (Category 5)	"personal area network" (Category 5) means a data communication system having both of the following characteristics: a. Allows an arbitrary number of independent or interconnected 'data devices' to communicate directly with each other; and b. Is confined to the communication between devices within the immediate physical vicinity of an individual person or device controller (e.g. single room, office, or automobile);	"personal area network" (Category 5) means a data communication system having both of the following characteristics: a. Allows an arbitrary number of independent or interconnected "data devices" to communicate directly with each other; and b. Is confined to the communication between devices within the immediate physical vicinity of an individual person or device controller (e.g. single room, office or automobile);

Category Code	SGCO 2025	SGCO 2026
	Technical Note 1 *'Data device' means equipment capable of transmitting or receiving sequences of digital information.* *Technical Note 2* *The "local area network" extends beyond the geographical area of the "personal area network".*	- *Technical Note* *The "local area network" extends beyond the geographical area of the "personal area network".*
"pulsed laser" (Category 6)	"pulsed laser" (Category 6) means a "laser" having a "pulse duration" that is less than or equal to 0.25 s;	-
"radar frequency agility" (Category 6)	"radar frequency agility" (Category 6) means any technique which changes, in a pseudo-random sequence, the carrier frequency of a pulsed radar transmitter between pulses or between groups of pulses by an amount equal to or larger than the pulse bandwidth;	-
"run-out" (Category 2)	"run-out" (Category 2) (out-of-true running) means radial displacement in one revolution of the main spindle measured in a plane perpendicular to the spindle axis at a point on the external or internal revolving surface to be tested (Ref. ISO 230-1:1986, paragraph 5.61);	-
"satellite" (Categories 5, 9)	-	"satellite" (Categories 5, 9) means a "spacecraft", other than a "space vehicle", designed to operate in orbit around Earth or another celestial body; "satellites" include orbital space stations;
"spacecraft" (Categories 5, 9)	"spacecraft" (Category 9) means active and passive satellites and space probes;	"spacecraft" (Categories 5, 9) 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*

Category Code	SGCO 2025	SGCO 2026
		craft”.
"Spacecraft bus"	“spacecraft bus” (Category 9) means equipment that provides the support infrastructure of the “spacecraft” and location for the “spacecraft payload”;	“spacecraft bus” (Category 9) means equipment that provides the support infrastructure of the “spacecraft” and location for the “spacecraft mission equipment”;
“spacecraft mission equipment” (Category 9)	-	“spacecraft mission equipment” (Category 9) means equipment designed to be located on a “spacecraft bus”, and to perform a mission in space or to enable the “spacecraft” to perform its mission (e.g. communications, observation, science, transport); *Technical Note* *“Spacecraft mission equipment” is sometimes referred to as a spacecraft payload.*
“space probe” (Category 9)	-	“space probe” (Category 9) means a “spacecraft”, other than a “satellite” or “space vehicle”, designed not to return to Earth;
“space vehicle” (Category 9)	-	“space vehicle” (Category 9) means a “spacecraft” designed to provide transport for cargo or passengers; *Note* *“Space vehicles” include craft designed to safely return to Earth.*
“strong mechanical bond” (Category 9)	-	“strong mechanical bond” (Category 9) means a bond having a bond strength equal to or greater than propellant strength;
“sub-orbital craft” (Category 9)	“sub-orbital craft” (Category 9) means a craft having an enclosure designed for the transport of people or cargo, which is designed to: a. Operate above the stratosphere; b. Perform a non-orbital trajectory; and c. Land back on Earth with the people or cargo intact;	“sub-orbital craft” (Category 9) 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 a non-orbital trajectory; and c. Land back on Earth with the people or cargo intact;

Category Code	SGCO 2025	SGCO 2026
"symmetric algorithm" (Category 5)	"symmetric algorithm" (Category 5) means a cryptographic algorithm using an identical key for both encryption and decryption;	-
"three-dimensional integrated circuit" (Category 3)	"three-dimensional integrated circuit" (Category 3) means a collection of semiconductor dies or active device layers, integrated together, and having through semiconductor via connections passing completely through an 'interposer', substrate, die or layer to establish interconnections between the device layers; *Technical Note* *'Interposer' is an interface that enables electrical connections.*	-
"wall-plug efficiency" (Category 6)	-	"wall-plug efficiency" (Category 6) means the ratio of "laser" output power (or "average output power") to total electrical input power required to operate the "laser", including the power supply/conditioning and thermal conditioning/heat exchanger;

Acronyms and Abbreviations

Category Code	SGCO 2025	SGCO 2026
FPLD, HBT, IEC, IFOV, LUT, PMAC	*First column Acronym Meaning or Abbreviation* / *Second column* - HBT / Hetero-Bipolar Transistors -	*First column Acronym Meaning or Abbreviation* / *Second column* FPLD / Field Programmable Logic Device HBT / Heterojunction Bipolar Transistor PMAC / Permanent Magnet Alternating Current

Category 1

1C002

Category Code	SGCO 2025	SGCO 2026
1C002.c.1.a *Note*	c. Metal alloy powder or particulate material, having all of the following characteristics: --- 1. Made from any of the following composition systems: --- a. Nickel alloys (Ni Al X, Ni X Al) qualified for turbine engine parts or components, i.e. with less than 3 non metallic particles (introduced during the manufacturing process) larger than 100 µm in 109 alloy particles;	c. Metal alloy powder or particulate material, having all of the following characteristics: --- 1. Made from any of the following composition systems: --- a. Nickel alloys (Ni Al X, Ni X Al) qualified for turbine engine parts or components, i.e. with less than 3 non metallic particles (introduced during the manufacturing process) larger than 100 µm in 109 alloy particles; *Note* *Category Code 1C002.c.1.a. includes nickel alloys qualified for aero, aero-derivative, industrial or marine gas turbine engines.*
1C002.c.2.i	2. Made in a controlled environment by any of the following processes:	2. Made in a controlled environment by any of the following processes: --- i. 'Ultrasonic atomisation'; and
1C002 *Technical Notes 10 and 11*	*Technical Notes* *For the purpose of Category Code 1C002:* ---	*Technical Notes* *For the purpose of Category Code 1C002:* --- *10. 'Ultrasonic atomisation' is a process to reduce a molten stream of metal alloy to droplets of a diameter of 500 µm or less by ultrasonic vibration.*

Category Code	SGCO 2025	SGCO 2026
	10. For the purpose of Category Code 1C002 Technical Notes, 'solidify rapidly' is a process involving the solidification of molten material at cooling rates exceeding 1,000 K/s.	*11. For the purpose of Category Code 1C002 Technical Notes, 'solidify rapidly' is a process involving the solidification of molten material at cooling rates exceeding 1,000 K/s.*

1C116

Category Code	SGCO 2025	SGCO 2026
1C116 *Technical Note 1*	*Technical Notes* 1. Maraging steels are iron alloys: a. Generally characterised by high nickel, very low carbon content and the use of substitutional elements or precipitates to produce strengthening and age hardening of the alloy; and	*Technical Notes* 1. Maraging steels are iron alloys: a. Generally characterised by high nickel content, carbon content of less than or equal to 0.03% by weight, and the use of substitutional elements or precipitates to produce strengthening and age hardening of the alloy; and

1C351

Category Code	SGCO 2025	SGCO 2026
1C351.d.1, 1C351 *Note*	d. "Toxins", as follows, and "sub-unit of toxins" thereof: --- 1. Botulinum toxins; --- *Note* *Category Code 1C351.d. does not include botulinum toxins or conotoxins in product form meeting all of the following criteria*	d. "Toxins", as follows, and "sub-unit of toxins" thereof: --- 1. Botulinum neurotoxins; --- *Note* *Category Code 1C351.d. does not include botulinum neurotoxins or conotoxins in product form meeting all of the following criteria:*

Category 2

2B001

Category Code	SGCO 2025	SGCO 2026
2B001.b.4.	b. Machine tools for milling having any of the following characteristics: --- 4. Fly cutting machines having both of the following characteristics: a. Spindle "run out" and "camming" less (better) than 0.0004 mm TIR; and b. Angular deviation of slide movement (yaw, pitch and roll) less (better) than 2 seconds of arc, TIR over 300 mm of travel;	b. Machine tools for milling having any of the following characteristics: --- 4. Fly cutting machines having both of the following characteristics: a. Spindle 'run out' and 'camming' less (better) than 0.0004 mm TIR; and b. Angular deviation of slide movement (yaw, pitch and roll) less (better) than 2 seconds of arc, TIR over 300 mm of travel; *Technical Notes* *For the purpose of Category Code 2B001.b.4.a.:* *1. 'Run-out' (out-of-true running) is the radial displacement in one revolution of the main spindle measured in a plane perpendicular to the spindle axis at a point on the external or internal revolving surface to be tested (Ref. ISO 230-1:2012).* *2. 'Camming' (axial displacement) is axial displacement in one revolution of the main spindle measured in a plane perpendicular to the spindle faceplate, at a point next to the circumference of the spindle faceplate (Ref. ISO 230-1:2012).*

2B352

Category Code	SGCO 2025	SGCO 2026
2B352.c.2.	c. Centrifugal separators, capable of continuous separation without the propagation of aerosols, having all of the following characteristics: ---	c. Centrifugal separators, capable of continuous separation without the propagation of aerosols, having a flow rate greater than 100 litres per hour, as follows: --- 2. Single-use centrifugal separators, in which all components that come in direct contact with the substances being processed are disposable or single-use;
2B352.j.	-	j. Peptide synthesisers that are partly or entirely automated and capable of generating peptides at a 'system synthesis scale' of 1 mmol or greater. *Technical Note* *'System synthesis scale' denotes the maximum amount of peptide (mmol) that can be produced by the instrument using the largest compatible reaction vessels (L). For multiple peptides produced in parallel, this is the sum of the largest compatible reaction vessels (L).*
2B352 *N.B*	-	*N.B.* *For chemical reaction vessels or reactors, see Category Code 2B350.a.*

Category 3

3A001

Category Code	SGCO 2025	SGCO 2026
3A001.a. *Technical Notes*, 3A001.e.3.c.		*Technical Notes* *For the purpose of Category Code 3A001.a.:* *1. 'Film type integrated circuit' is an array of "circuit elements" and metallic interconnections formed by deposition of a thick or thin film on an insulating "substrate".* *2. 'Three-dimensional integrated circuit' is a collection of semiconductor dies or active device layers, integrated together, and having through semiconductor via connections passing completely through an interposer, substrate, die or layer to establish interconnections between the device layers. An interposer is an interface that enables electrical connections.* *3. 'Family' consists of all integrated circuits to which all of the following are applied as their manufacturing methodology and specifications except their respective functions:* *a. The common hardware and software architecture;* *b. The common design and process technology; and* *c. The common basic characteristics*
	---	---
	e. High energy devices, as follows:	e. High energy devices, as follows:
	---	---
	3. "Superconductive" electromagnets and solenoids, specially designed to be fully charged or discharged in less	3. "Superconductive" electromagnets and solenoids, specially designed to be fully charged or discharged in less than 1 s and having all of the following characteristics:

Category Code	SGCO 2025	SGCO 2026
	than 1 s and having all of the following characteristics: --- c. Rated for a magnetic induction of more than 8 T or "overall current density" in the winding of more than 300 A/mm^2;	--- c. Rated for a magnetic induction of more than 8 T or 'overall current density' in the winding of more than 300 A/mm^2; *Technical Note* *For the purpose of Category Code 3A001.e.3.c., 'overall current density' is the total number of ampere-turns in the coil (i.e. the sum of the number of turns multiplied by the maximum current carried by each turn) divided by the total cross-section of the coil (comprising the superconducting filaments, the metallic matrix in which the superconducting filaments are embedded, the encapsulating material, any cooling channels, etc.).*

3A002

Category Code	SGCO 2025	SGCO 2026
3A002.a.7.	a. Recording equipment and oscilloscopes, as follows: --- 7. Real time oscilloscopes having a vertical root mean square (rms) noise voltage of less than 2% of full scale at the vertical scale setting that provides the lowest noise value for any input 3 dB bandwidth of 60 GHz or greater per channel;	a. Recording equipment and oscilloscopes, as follows: --- 7. Real time oscilloscopes having all of the following characteristics: a. A vertical root-mean-square (rms) noise voltage of less than 2% of full-scale at the vertical scale setting that provides the lowest noise value; and b. An 'upper 3dB frequency' greater than 90 GHz on any channel;

		Technical Notes *For the purpose of Category Code 3A002.a.7.b.:* *1. 'Upper 3dB frequency' is the greater of:* *a. The specified 3dB bandwidth of the oscilloscope; or* *b. The maximum upper end of the frequency range of any 'movable bandwidth window'.* *2. 'Movable bandwidth window' is a bandpass filter with a user-definable centre frequency or span.*

3C005

Category Code	SGCO 2025	SGCO 2026
3C005 *N.B*	-	*N.B.* *For materials consisting of a "substrate" specified in Category Code 3C005 with at least one epitaxial layer, see Category Code 3C001 or 3C006.*

3E003

Category Code	SGCO 2025	SGCO 2026
3E003.b., 3E003.b *Note*	b. Hetero structure semiconductor electronic devices such as High Electron Mobility Transistors (HEMT), Hetero Bipolar Transistors (HBT), quantum well and super lattice devices; *Note* *Category Code 3E003.b. does not include "technology" for High Electron Mobility Transistors (HEMT) operating at frequencies lower than 31.8 GHz and hetero bipolar transistors (HBT) operating at frequencies lower than 31.8 GHz.*	b. Hetero structure semiconductor electronic devices such as High Electron Mobility Transistors (HEMT), Heterojunction Bipolar Transistors (HBT), quantum well and super lattice devices; *Note* *Category Code 3E003.b. does not include "technology" for High Electron Mobility Transistors (HEMT) operating at frequencies lower than 31.8 GHz and heterojunction bipolar transistors (HBT) operating at frequencies lower than 31.8 GHz.*

Category 4

4A003

Category Code	SGCO 2025	SGCO 2026
4A003.g. *Technical Notes*	-	*Technical Notes* *For the purpose of Category Code 4A003.g. Note:* *1. A 'network access controller' is a physical interface to a distributed switching network. It uses a common medium which operates throughout at the same "digital transfer rate" using arbitration (e.g. token or carrier sense) for transmission. Independently from any other, it selects data packets or data groups (e.g. IEEE 802) addressed to it. It is an assembly that can be integrated into computer or telecommunications equipment to provide communications access.* *2. A 'communications channel controller' is the physical interface which controls the flow of synchronous or asynchronous digital information. It is an assembly that can be integrated into computer or telecommunications equipment to provide communications access.*

Category 5 Part 1

5A001

Category Code	SGCO 2025	SGCO 2026
5A001.a *Note 2*	*Note 2* *Category Codes 5A001.a.2., 5A001.a.3. and 5A001.a.4. do not include equipment designed or modified for use on board satellites.*	*Note 2* *Category Codes 5A001.a.2., 5A001.a.3. and 5A001.a.4. do not include equipment designed or modified for use on board "spacecraft".*

5E001

Category Code	SGCO 2025	SGCO 2026
5E001.b.1.	"Software" as follows: --- b. Specific "technology" as follows: 1. "Technology" "required" for the "development" or "production" of telecommunications equipment specially designed to be used on board satellites;	"Software" as follows: --- b. Specific "technology" as follows: 1. "Technology" "required" for the "development" or "production" of telecommunications equipment specially designed to be used on board "spacecraft";
5E001.c.3. *Technical Note*	-	*Technical Note* *For the purpose of Category Code 5E001.c.3., 'optical switching' is the routing of or switching of signals in optical form without conversion to electrical signals.*

Category 5 Part 2

5A002

Category Code	SGCO 2025	SGCO 2026
5A002.a.2.a. *Technical note 2.a.*	*Technical Notes* *2. For the purpose of Category Code 5A002.a., 'described security algorithm' means any of the following:* *a. A "symmetric algorithm" employing a key length in excess of 56 bits, not including parity bits;*	*Technical Notes* *2. For the purpose of Category Code 5A002.a., 'described security algorithm' means any of the following:* *a. A 'symmetric algorithm' employing a key length in excess of 56 bits, not including parity bits;* *Technical Notes* *For the purpose of Category Code 5A002.a. Technical Note 2.a.:* *1. 'Symmetric algorithm' is a cryptographic algorithm using an identical key for both encryption and decryption.*

		2. A common use of 'symmetric algorithms' is confidentiality of data.

Category 6

6A005

Category Code	SGCO 2025	SGCO 2026
6A005 Technical Note	*Technical Note* *For the purpose of Category Code 6A005, 'wall-plug efficiency' is defined as the ratio of "laser" output power (or "average output power") to total electrical input power required to operate the "laser", including the power supply/conditioning and thermal conditioning/heat exchanger.*	-
6A005 *Note 2 Technical Note*	*Note 2* *Excimer, semiconductor, chemical, CO, CO2, and 'non-repetitive pulsed' Nd:glass "lasers" are only specified in Category Code 6A005.d..* *Technical Note* *For the purpose of Category Code 6A005 Note 2, 'non-repetitive pulsed' refers to "lasers" that produce either a single output pulse or that have a time interval between pulses exceeding one minute.*	*Note 2* *Excimer, semiconductor, chemical, CO, CO2, and 'non-repetitive pulsed' Nd:glass "lasers" are only specified in Category Code 6A005.d..* -
6A005.b *Technical Note*	b. Non-"tunable" "pulsed lasers" having any of the following characteristics: -	b. Non-"tunable" "pulsed lasers" having any of the following characteristics: *Technical Note* *For the purpose of Category Code 6A005.b., a 'pulsed laser' is a "laser" having a "pulse duration" that is less than or equal to 0.25 seconds.*

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