

L.N. 85 of 2023

**Import and Export (Strategic Commodities) Regulations
(Amendment of Schedules 1 and 2) Order 2023**

(Made by the Director-General of Trade and Industry under section
6B of the Import and Export Ordinance (Cap. 60))

1. Commencement

Subject to section 6B of the Ordinance, this Order comes into operation on a day to be appointed by the Director-General of Trade and Industry by notice published in the Gazette.

2. Import and Export (Strategic Commodities) Regulations amended

The Import and Export (Strategic Commodities) Regulations (Cap. 60 sub. leg. G) are amended as set out in sections 3 and 4.

3. Schedule 1 amended (strategic commodities)

- (1) Schedule 1, Munitions List, ML1, before the Note before ML1(a)—

Add

“*N.B.:*

Weapons using non-centre fire cased ammunition and that are not of the fully automatic firing type are specified in ML101.”

- (2) Schedule 1, Munitions List, ML1, Note before ML1(a)—

Repeal paragraph (d)

Substitute

“(d) ‘Deactivated firearms’

Technical Note:

A ‘deactivated firearm’ is a firearm that has been made incapable of firing any projectile by processes defined by the national authority of a “Participating State”. These processes irreversibly modify the essential elements of the firearm. According to national laws and regulations, deactivation of the firearm may be attested by a certificate delivered by a competent authority and may be marked on the firearm by a stamp on an essential part.”.

- (3) Schedule 1, Munitions List, ML1(a), before the Note—

Add

“*N.B.*:

Rifles and combination guns, manufactured from 1899 to 1937, are specified in ML101.”.

- (4) Schedule 1, Munitions List, ML1(a), Note (4)—

Repeal the full stop

Substitute a semicolon.

- (5) Schedule 1, Munitions List, ML1(a), after Note (4)—

Add

“(5) Handguns specially designed for any of the following:

- (a) Slaughtering of domestic animals;
- (b) Tranquilising of animals.”.

- (6) Schedule 1, Munitions List, before ML1(b)(1)—

Add

“*N.B.*:

Smooth-bore weapons manufactured from 1899 to 1937 or those used for hunting or sporting purposes are specified in ML101.”.

Section 3

- (7) Schedule 1, English text, Munitions List, ML1(b), Note 1(d)(1), after “Slaughtering”—

Add

“of”.

- (8) Schedule 1, English text, Munitions List, ML1(b), Note 1(d)(2), after “Tranquilizing”—

Add

“of”.

- (9) Schedule 1, Munitions List—

Repeal ML1(d)(3)

Substitute

“(3) ‘Gun-mountings’;

Technical Note:

For the purposes of ML1(d)(3), a ‘gun mounting’ is a fixture designed to mount a gun onto a ground vehicle, “aircraft”, vessel or structure.”.

- (10) Schedule 1, Munitions List, ML2, after “(calibre 0.50 inches), projectors”—

Add

“specially designed or modified for military use,”.

- (11) Schedule 1, Munitions List, ML2(a)—

Repeal

“, smooth-bore weapons and signature reduction devices for those articles;”

Substitute

“and smooth-bore weapons;

N.B.:

Section 3

Rifles, combination guns and smooth-bore weapons manufactured from 1899 to 1937 and smooth-bore weapons used for hunting or sporting purposes are specified in ML101.”.

- (12) Schedule 1, English text, Munitions List, ML2(a), Note 2(e)(1), after “Slaughtering”—

Add

“of”.

- (13) Schedule 1, English text, Munitions List, ML2(a), Note 2(e)(2), after “Tranquilizing”—

Add

“of”.

- (14) Schedule 1, Munitions List—

Repeal ML2(b) and (c)

Substitute

- “(b) Projectors, specially designed or modified for military use, as follows:

- (1) Smoke canister projectors;
- (2) Gas canister projectors;
- (3) Pyrotechnic projectors;

Note:

ML2(b) does not apply to signal pistols.

- (c) Accessories specially designed for the weapons specified in ML2(a), as follows:

- (1) Weapon sights and weapon sight mounts, specially designed for military use;
- (2) Signature reduction devices;
- (3) Mountings;

(4) Detachable cartridge magazines;”.

(15) Schedule 1, Munitions List—

Repeal ML2(d).

(16) Schedule 1, English text, Munitions List, ML3, Note 1(b)—

Repeal

“fuses”

Substitute

“fuzes”.

(17) Schedule 1, Munitions List, ML6(a)—

Repeal the Technical Note.

(18) Schedule 1, Munitions List—

Repeal ML6(b)

Substitute

“(b) Other ground vehicles and components, as follows:

(1) Vehicles that meet all of the following descriptions:

(a) The vehicles are manufactured or fitted with materials or components to provide ballistic protection equal to or better than level III (NIJ 0108.01, September 1985), or “equivalent standards”;

(b) The transmission of the vehicles provide drive to both front and rear wheels simultaneously, including those for vehicles having additional wheels for load bearing purposes (whether driven or not);

(c) The Gross Vehicle Weight Rating (GVWR) of the vehicles is greater than 4 500 kg;

- (d) The vehicles are designed or modified for off-road use;
- (2) Components having all of the following:
 - (a) Specially designed for vehicles specified in ML6(b)(1);
 - (b) Providing ballistic protection equal to or better than level III (NIJ 0108.01, September 1985), or “equivalent standards”;
- (19) Schedule 1, English text, Munitions List, ML6, Note 1(a)—

Repeal

“Tanks and other military armed vehicles and military vehicles”

Substitute

“Tanks, other military armed vehicles, and military vehicles that are”.

- (20) Schedule 1, English text, Munitions List, ML6, Note 1(d), after “Recovery vehicles”—

Add a comma.

- (21) Schedule 1, Munitions List, ML8(a)(6)—

Repeal

“FOX7”

Substitute

“FOX-7”.

- (22) Schedule 1, Munitions List, ML8(a)(13)—

Repeal

“and ML8(g)(9)”.

Section 3

- (23) Schedule 1, Munitions List, ML8(a)(32)(d)—
Repeal
“[bis-dinitrotriazole]”
Substitute
“(bis-dinitrotriazole)”.
- (24) Schedule 1, English text, Munitions List—
Repeal ML8(a)(32)(j)
Substitute
“(j) TACOT (tetranitrobenzotriazolobenzotriazole) (CAS 25243-36-1);”.
- (25) Schedule 1, Munitions List, ML8(c)—
Repeal
“related substances, as follows, and mixtures”
Substitute
“related substances, as follows, and ‘mixtures’”.
- (26) Schedule 1, Munitions List, ML8(c)(1)—
Repeal
“Aircraft fuels specially”
Substitute
““Aircraft” fuels specially”.
- (27) Schedule 1, Munitions List, ML8(c)(1), Note 1—
Repeal
“aircraft”
Substitute
““aircraft””.
- (28) Schedule 1, Munitions List, ML8(c)(1), Note 2—

Section 3

Repeal

“Aircraft”

Substitute

““Aircraft””.

- (29) Schedule 1, Munitions List, ML8(c)(5)—

Repeal

“mixtures or “pyrotechnic” mixtures”

Substitute

“‘mixtures’ or ‘pyrotechnic’ ‘mixtures’”.

- (30) Schedule 1, Munitions List, ML8(c)(5)(b)—

Repeal

“Mixtures”

Substitute

““Mixtures””.

- (31) Schedule 1, Munitions List, ML8(c)(5), Note 2—

Repeal

“mixtures”

Substitute

““mixtures””.

- (32) Schedule 1, Munitions List, ML8(d)—

Repeal

“mixtures”

Substitute

““mixtures””.

- (33) Schedule 1, Munitions List, ML8(d)(3)(b)—

Repeal

Section 3

“or”.

- (34) Schedule 1, Munitions List—

Repeal ML8(e)(16)

Substitute

“(16) Poly-NIMMO (poly nitratomethylmethyloxetane, poly-NMMO or poly(3-Nitratomethyl-3-methyloxetane)) (CAS 84051-81-0);”.

- (35) Schedule 1, Munitions List—

Repeal ML8(f)(17)(a)

Substitute

“(a) 1,1R,1S-trimesoyl-tris(2-ethylaziridine) (HX-868, BITA) (CAS 7722-73-8);”.

- (36) Schedule 1, Munitions List, ML8(f)(17)—

Repeal Note 1

Substitute

“1. 1,1H-Isophthaloyl-bis(2-methylaziridine) (HX-752) (CAS 7652-64-4);”.

- (37) Schedule 1, Munitions List, ML9(a)(2)(c)—

Repeal

“All of the following:”

Substitute

“Having all of the following:”.

- (38) Schedule 1, English text, Munitions List, ML9(c)—

Repeal

“thereof”.

- (39) Schedule 1, Munitions List—

Repeal ML9(g)

Substitute

“(g) Silent bearings having any of the following characteristics, and components for the silent bearings and equipment containing those bearings, specially designed for military use:

- (1) Gas or magnetic suspension;
- (2) Active signature controls;
- (3) Vibration suppression controls;”.

(40) Schedule 1, Munitions List—

Repeal ML9(h)

Substitute

“(h) Nuclear power generating equipment or propulsion equipment, specially designed for vessels specified in ML9(a) and components for the nuclear power generating equipment or propulsion equipment specially designed or ‘modified’ for military use;

Technical Note:

For the purposes of ML9(h), ‘modified’ means any structural, electrical, mechanical, or other change that provides a non-military item with military capabilities equivalent to an item which is specially designed for military use.

Note:

ML9(h) includes “nuclear reactors”.”.

(41) Schedule 1, Munitions List—

Repeal ML10(e)

Substitute

“(e) Airborne refuelling equipment specially designed or modified for any of the following, and specially designed components for the equipment:

- (1) “Aircraft” specified by ML10(a);
- (2) Unmanned “aircraft” specified by ML10(c);”.

(42) Schedule 1, Munitions List—

Repeal ML10(f)

Substitute

“(f) Ground equipment specially designed for “aircraft” specified in ML10(a) or aero-engines specified in ML10(d);

Note:

ML10(f) includes pressure refuelling equipment and equipment designed to facilitate operations in confined areas, including equipment located on board a ship.”.

(43) Schedule 1, Munitions List, ML10, Notes—

Repeal everything before Note 1(a)

Substitute

“1. ML10(a) does not apply to “aircraft” (or variants of those “aircraft”) and “lighter-than-air vehicles”, specially designed for military use and that meet all of the following descriptions:”.

(44) Schedule 1, English text, Munitions List, ML10, Note 1(b)—

Repeal

“*and*”.

Section 3

- (45) Schedule 1, Munitions List, ML10, Note 2(a)—
Repeal
“for civil use”.
- (46) Schedule 1, Munitions List, ML10, Note 3—
Repeal
“refer”
Substitute
“apply”.
- (47) Schedule 1, Munitions List, ML11(a), Note 4—
Repeal
“countermeasures, including acoustic and magnetic jamming and decoy”
Substitute
“countermeasures (including acoustic and magnetic jamming and decoy)”.
- (48) Schedule 1, English text, Munitions List, ML12, Note 1(b), Nota Bene—
Repeal
“on”
Substitute
“of”.
- (49) Schedule 1, Munitions List, ML13—
Repeal
“constructions and components, as follows”

Substitute

“and constructions, components and accessories for the equipment, as follows”.

- (50) Schedule 1, Munitions List, ML13(a)—

Repeal

“as follows”

Substitute

“having any of the following”.

- (51) Schedule 1, Munitions List, ML13(a)(1)—

Repeal

“or”.

- (52) Schedule 1, Munitions List—

Repeal ML13(c)

Substitute

“(c) Helmets and specially designed components and accessories for the helmets, as follows:

- (1) Helmets manufactured to military standards or specifications, or comparable national standards;
- (2) Shells, liners, or comfort pads, specially designed for helmets specified in ML13(c)(1);
- (3) Add-on ballistic protection elements, specially designed for helmets specified in ML13(c)(1);

N.B.:

For other military helmet components or accessories, see ML10(h)(3).”.

Section 3

(53) Schedule 1, Munitions List, ML13(d)(1)—

Repeal

“according”.

(54) Schedule 1, Munitions List, ML13(d)(2)—

Repeal

“national equivalents”

Substitute

““equivalent standards””.

(55) Schedule 1, Munitions List, ML13—

Repeal Note 2

Substitute

“2. ML13(c) does not apply to helmets that meet all of the following descriptions:

(a) First manufactured before 1970;

(b) Neither designed or modified to accept nor equipped with items specified in the Munitions List.”.

(56) Schedule 1, Munitions List, ML13—

Repeal Note 4

Substitute

“4. For helmets specially designed for bomb disposal personnel, those helmets are included in ML13(c) only if they are specially designed for military use.”.

(57) Schedule 1, Munitions List, ML15, Note, Nota Bene—

Repeal

“the status of weapons”

Substitute

Section 3

“weapon”.

- (58) Schedule 1, Munitions List—

Repeal ML17(g)

Substitute

“(g) Nuclear power generating equipment or propulsion equipment, not specified elsewhere in the Munitions List, specially designed for military use, and components for the equipment specially designed or ‘modified’ for military use;

Note:

ML17(g) includes “nuclear reactors”.

- (59) Schedule 1, Munitions List, ML17(j), (k) and (l)—

Repeal

“modified”

Substitute

““modified””.

- (60) Schedule 1, Munitions List, ML17(o)—

Repeal

“Laser”

Substitute

““Laser””.

- (61) Schedule 1, Munitions List, ML18—

Repeal

“equipment and components”

Substitute

“equipment and environmental test facilities, and components for the equipment and facilities”.

Section 3

- (62) Schedule 1, Munitions List, ML18(b), before “for the certification”—

Add

“not specified elsewhere in the Munitions List.”.

- (63) Schedule 1, Munitions List, ML18, Note 1(d)—

Repeal

“explosive”

Substitute

““explosive””.

- (64) Schedule 1, Munitions List, ML18, Note 1(e) and (g)—

Repeal

“propellants”

Substitute

““propellants””.

- (65) Schedule 1, Munitions List, ML18, Note 1(h)—

Repeal

“explosives”

Substitute

““explosives””.

- (66) Schedule 1, English text, Munitions List, ML19—

Repeal

“systems (DEW)”

Substitute

“(DEW) systems”.

- (67) Schedule 1, English text, Munitions List, ML20(b),
Note—

Repeal

“component”

Substitute

“components”.

- (68) Schedule 1, Munitions List, ML21(b)(3)—

Repeal

“and”.

- (69) Schedule 1, Munitions List, after ML21(b)(4)—

Add

- “(5) “Software” specially designed or modified for the
conduct of military offensive cyber operations;

Notes:

1. ML21(b)(5) includes “software” designed to destroy, damage, degrade or disrupt systems, equipment or “software”, specified in the Munitions List, and cyber reconnaissance and cyber command and control “software” for the conduct of military offensive cyber operations.
2. ML21(b)(5) does not apply to “vulnerability disclosure” or to “cyber incident response”, if it is limited to non-military defensive cybersecurity readiness or response.”.

- (70) Schedule 1, Munitions List, after ML21(c)—

Add

“*N.B.* :

See systems, equipment or components specified in the Munitions List for general purpose “digital computers” with the “software” specified in ML21(c) installed.”.

(71) Schedule 1, Munitions List, after ML22—

Add

“ML101 Firearms, ammunition, their ‘parts’ and ‘essential components’ as follows:

- (a) Firearms, other than those specified in ML1 or ML2;

Notes:

ML101(a) includes:

- (1) Weapons using non-centre fire cased ammunition and that are not of the fully automatic firing type;
 - (2) Rifles, combination guns and smooth-bore weapons manufactured from 1899 to 1937;
 - (3) Smooth-bore weapons used for hunting or sporting purposes that meet both of the following descriptions:
 - (a) not specially designed for military use;
 - (b) not of the fully automatic firing type.
- (b) ‘Parts’ (including sound suppressors or moderators) or ‘essential components’ for firearms specified in ML101(a);

- (c) Ammunition for firearms specified in ML101(a);

Note:

ML101 does not apply to the following:

1. Firearms manufactured earlier than 1899;
2. ‘Parts’ (including sound suppressors or moderators) or ‘essential components’ for firearms manufactured earlier than 1899;
3. ‘Deactivated firearms’;
4. Firearms specially designed for dummy ammunition and that are incapable of discharging a projectile;
5. Firearms specially designed to launch tethered projectiles having no high explosive charge or communications link, to a range of less than or equal to 500 m;
6. Weapons specially designed to discharge an inert projectile by compressed air or CO₂;
7. Smooth-bore weapons specially designed for any of the following purposes:
 - (a) Slaughtering of domestic animals;
 - (b) Tranquilizing of animals;
 - (c) Seismic testing;
 - (d) Firing of industrial projectiles;
 - (e) Disrupting Improvised Explosive Devices (IEDs);
8. Signal pistols.

Technical Notes:

1. ‘Parts’ means any element or replacement element specifically designed for a firearm and essential to its operation, including a barrel, frame or receiver, slide or cylinder, bolt or breech block, and any device designed or adapted to diminish the sound caused by firing a firearm.
 2. ‘Essential components’ means the breech-closing mechanism, the chamber and the barrel of a firearm which, being separate objects, are included in the category of the firearms on which they are or are intended to be mounted.
 3. A ‘deactivated firearm’ is a firearm that has been made incapable of firing any projectile by processes defined by the national authority of a “Participating State”. These processes irreversibly modify the essential elements of the firearm. According to national laws and regulations, deactivation of the firearm may be attested by a certificate delivered by a competent authority and may be marked on the firearm by a stamp on an essential part.”.
- (72) Schedule 1, Dual-use Goods List, Category 0, 0A001(a)—
Repeal
“capable of operation so as to maintain a controlled self-sustaining fission chain reaction”.
- (73) Schedule 1, Dual-use Goods List, Category 0, 0A001(b)—
Repeal

“, including the reactor vessel head for a reactor pressure vessel”.

- (74) Schedule 1, Dual-use Goods List, Category 0, 0A001(i)(1)—

Repeal

“use in”.

- (75) Schedule 1, Dual-use Goods List, Category 0, 0B001(e)(4)—

Repeal

“fluorinated hydrocarbon”

Substitute

“fluorocarbon”.

- (76) Schedule 1, Dual-use Goods List, Category 0, 0B001(g)—

Repeal

““laser-based separation processes using atomic vapour laser””

Substitute

“laser-based separation processes using atomic vapour laser”.

- (77) Schedule 1, Dual-use Goods List, Category 0, 0B001(g)(1) and (2)—

Repeal

““laser””

Substitute

“laser”.

- (78) Schedule 1, English text, Dual-use Goods List, Category 0, 0B001(g)(3), after “assemblies for”—

Section 3

Add

“collecting”.

- (79) Schedule 1, Dual-use Goods List, Category 0, 0B001(h)—

Repeal

““laser” isotope”

Substitute

“laser isotope”.

- (80) Schedule 1, Dual-use Goods List, Category 0, 0B001(h)(2)—

Repeal

““laser””

Substitute

“laser”.

- (81) Schedule 1, Dual-use Goods List, Category 0, 0B004(b)(2),
after “70%”—

Add

“by weight hydrogen sulphide,”.

- (82) Schedule 1, Dual-use Goods List, Category 0, 0B004(b)(6),
after “90%”—

Add

“by weight”.

- (83) Schedule 1, Chinese text, Dual-use Goods List, Category 0,
0B004—

Repeal

“氙” (wherever appearing)

Substitute

“氙”.

- (84) Schedule 1, Dual-use Goods List, Category 0, 0B006,
Note (b), after “Fuel element”—

Add

“decladding equipment and”.

- (85) Schedule 1, Dual-use Goods List, Category 0, 0B006,
Note (c)—

Repeal

“Dissolvers, critically safe tanks (e.g. small diameter,
annular or slab tanks)”

Substitute

“Dissolver vessels or dissolvers employing mechanical
devices”.

- (86) Schedule 1, Dual-use Goods List, Category 0, 0B006,
Note (c), after “loaded”—

Add

“, operated”.

- (87) Schedule 1, Chinese text, Dual-use Goods List, Category 0,
0C003—

Repeal

“氚” (wherever appearing)

Substitute

“氚”.

- (88) Schedule 1, Dual-use Goods List, Category 0, 0C004,
Note 1—

Repeal

“specifications specified in 0C004 are for “nuclear reactor”
use”

Substitute

“above specifications are for “nuclear reactor” use. 0C004 does not control graphite having a purity level better than 5 ppm (parts per million) boron equivalent and with a density greater than 1.5 g/cm³ not for use in a “nuclear reactor””.

- (89) Schedule 1, English text, Dual-use Goods List, Category 0, 0C005—

Repeal

“alloy containing 60 weight percent or more”

Substitute

“alloys containing 60% or more by weight of”.

- (90) Schedule 1, Dual-use Goods List, Category 1, 1A002, after Note 4—

Add

“5. 1A002(b)(1) does not apply to mechanically chopped, milled, or cut carbon “fibrous or filamentary materials” 25.0 mm or less in length.”.

- (91) Schedule 1, Dual-use Goods List, Category 1, 1A004(d), Technical Note—

Repeal

“The term ‘trace detection’ means”

Substitute

““Trace detection’ is defined as”.

- (92) Schedule 1, Dual-use Goods List, Category 1, 1A005(a)—

Repeal

“according”.

Section 3

- (93) Schedule 1, Dual-use Goods List, Category 1, 1A005(b)—
Repeal
“national equivalents”
Substitute
““equivalent standards””.
- (94) Schedule 1, Dual-use Goods List, Category 1, 1A005,
Nota Bene 2—
Repeal
“according”.
- (95) Schedule 1, English text, Dual-use Goods List, Category 1,
1A006—
Repeal
“improvised explosive devices, as”
Substitute
“Improvised Explosive Devices (IEDs), as”.
- (96) Schedule 1, Dual-use Goods List, Category 1, 1A006,
Technical Note—
Repeal
“‘Disruptors’:”
Substitute
“For the purposes of 1A006(b), ‘disruptors’ are”.
- (97) Schedule 1, English text, Dual-use Goods List, Category 1,
1A006, Nota Bene—
Repeal
“improvised explosive devices”

Substitute

“IEDs”.

- (98) Schedule 1, Dual-use Goods List, Category 1, 1A007—

Repeal

“energetic materials”

Substitute

““energetic materials””.

- (99) Schedule 1, Dual-use Goods List, Category 1, 1A007,
Technical Note 2—

Repeal

“Also, the word initiator is sometimes used in place of the
word detonator.”.

- (100) Schedule 1, Dual-use Goods List, Category 1, 1B001(c)—

Repeal

“to manufacture”

Substitute

“for”.

- (101) Schedule 1, Dual-use Goods List, Category 1, 1B001(f)(2)—

Repeal

“or both”.

- (102) Schedule 1, Dual-use Goods List, Category 1, 1B001,
Technical Note 2—

Repeal

““tape”, “tow””

Substitute

“tape, tow”.

Section 3

(103) Schedule 1, Dual-use Goods List, Category 1, 1B002—

Repeal everything before the Nota Bene

Substitute

“1B002 Equipment designed to produce metal alloy powder or particulate materials, and having all of the following characteristics:

- (a) Specially designed to avoid contamination;
- (b) Specially designed for use in one of the processes specified in 1C002(c)(2);”.

(104) Schedule 1, Dual-use Goods List, Category 1, 1B003—

Repeal

“or aluminium or their alloys, specially designed for the manufacture of”

Substitute

“, aluminium or their alloys, specially designed for the manufacture of any of the following”.

(105) Schedule 1, Dual-use Goods List, Category 1, 1B003(b)—

Repeal

“*or*”.

(106) Schedule 1, Dual-use Goods List, Category 1, 1B101(a)—

Repeal

“fibrous or filamentary materials”

Substitute

““fibrous or filamentary materials””.

(107) Schedule 1, Dual-use Goods List, Category 1, 1B101(d),
Note—

Repeal

“Equipment covered in”.

Section 3

- (108) Schedule 1, Dual-use Goods List, Category 1, 1B115—
Repeal
““production” of propellants”
Substitute
“production of propellants”.
- (109) Schedule 1, Dual-use Goods List, Category 1, 1B117—
Repeal everything before the Note
Substitute
“1B117 Batch mixers having all of the following characteristics, and specially designed components for the batch mixers:
(a) Designed or modified for mixing under vacuum in the range of zero to 13.326 kPa;
(b) Capable of controlling the temperature of the mixing chamber;
(c) A total volumetric capacity of 110 litres or more;
(d) At least one ‘mixing or kneading shaft’ mounted off centre;”.
- (110) Schedule 1, Dual-use Goods List, Category 1, 1B117, Note—
Repeal
“1B117(b)”
Substitute
“1B117(d)”.
- (111) Schedule 1, Dual-use Goods List, Category 1—
Repeal 1B118

Substitute

“1B118 Continuous mixers having all of the following characteristics, and specially designed components for the continuous mixers:

- (a) Designed or modified for mixing under vacuum in the range of zero to 13.326 kPa;
- (b) Capable of controlling the temperature of the mixing chamber;
- (c) Having either:
 - (1) Two or more mixing/kneading shafts; *or*
 - (2) A single rotating and oscillating shaft with kneading teeth/pins, and kneading teeth/pins inside the casing of the mixing chamber;”.

(112) Schedule 1, English text, Dual-use Goods List, Category 1, 1B201(a)(3)—

Repeal

“of between”

Substitute

“between”.

(113) Schedule 1, Dual-use Goods List, Category 1, 1B228(c)(2)—

Repeal

“H₂”

Substitute

“hydrogen (H₂)”.

(114) Schedule 1, English text, Dual-use Goods List, Category 1, 1B231(a)—

Section 3

Repeal

“plant”

Substitute

“plants”.

- (115) Schedule 1, English text, Dual-use Goods List, Category 1, 1B231(b)—

Repeal

“plant”

Substitute

“plants”.

- (116) Schedule 1, Dual-use Goods List, Category 1, 1B231(b)(2)—

Repeal

“and”

Substitute

“or hydrogen isotope”.

- (117) Schedule 1, Dual-use Goods List, Category 1, 1B235(a)—

Repeal

““nuclear reactor””

Substitute

“nuclear reactor”.

- (118) Schedule 1, Dual-use Goods List, Category 1, 1C001—

Repeal

“use as absorbers of electromagnetic waves”

Substitute

“absorbing electromagnetic radiation”.

Section 3

- (119) Schedule 1, Dual-use Goods List, Category 1, 1C001(a),
Note 1(d)(2)—

Repeal

“of 548 K (275°C).”

Substitute

“that is 548 K (275°C) or less;”.

- (120) Schedule 1, Dual-use Goods List, Category 1, 1C001(a),
after Note 1(d)—

Add

- “(e) Planar absorbers having no magnetic loss, and
fabricated from ‘open-cell foam’ plastic material with
a density of 0.15 g/cm³ or less.

Technical Note:

‘Open-cell foams’ are flexible and porous materials,
having an inner structure open to the atmosphere.
‘Open-cell foams’ are also known as reticulated
foams.”.

- (121) Schedule 1, Dual-use Goods List, Category 1, 1C001(b)—

Repeal everything before the Note

Substitute

- “(b) Materials not transparent to visible light and
specially designed for absorbing near-infrared
radiation having a wavelength exceeding 810 nm
but less than 2 000 nm (frequencies exceeding
 1.5×10^{14} Hz but less than 3.7×10^{14} Hz);”.

- (122) Schedule 1, Dual-use Goods List, Category 1, 1C001(b),
Note (a) and (b)—

Repeal

“Laser”

Section 3

Substitute

““Laser””.

- (123) Schedule 1, Dual-use Goods List, Category 1, 1C002,
Note—

Repeal

“for coating substrates”

Substitute

“, specially formulated for coating purposes”.

- (124) Schedule 1, Dual-use Goods List, Category 1, 1C002,
Technical Note 2—

Repeal

“Stress-rupture life”

Substitute

“Stress-rupture life”.

- (125) Schedule 1, Dual-use Goods List, Category 1, 1C002,
Technical Note 3—

Repeal

“Low cycle fatigue life should be measured in accordance
with ASTM Standard”

Substitute

““Low cycle fatigue life’ should be measured in accordance
with ASTM standard”.

- (126) Schedule 1, Dual-use Goods List, Category 1, 1C002,
Technical Note 3, after “The average stress”—

Add

“ratio”.

Section 3

- (127) Schedule 1, Dual-use Goods List, Category 1,
1C002(b)(1)(a)—
Repeal
“stress-rupture life”
Substitute
““stress-rupture life””.
- (128) Schedule 1, Dual-use Goods List, Category 1,
1C002(b)(1)(b)—
Repeal
“low cycle fatigue life”
Substitute
““low cycle fatigue life””.
- (129) Schedule 1, Dual-use Goods List, Category 1,
1C002(b)(2)(a)—
Repeal
“stress-rupture life”
Substitute
““stress-rupture life””.
- (130) Schedule 1, Dual-use Goods List, Category 1,
1C002(b)(2)(b)—
Repeal
“low cycle fatigue life”
Substitute
““low cycle fatigue life””.
- (131) Schedule 1, Dual-use Goods List, Category 1,
1C002(b)(3)(a)—

Section 3

Repeal

“stress-rupture life”

Substitute

““stress-rupture life””.

- (132) Schedule 1, Dual-use Goods List, Category 1, 1C002(b)(3)(b)—

Repeal

“low cycle fatigue life”

Substitute

““low cycle fatigue life””.

- (133) Schedule 1, Dual-use Goods List, Category 1, 1C006(b)—

Repeal

everything after “their principal ingredients,”

Substitute

“phenylene, alkylphenylene ethers or thio-ethers, or their mixtures, containing more than two ether or thio-ether functions or their mixtures;”.

- (134) Schedule 1, Dual-use Goods List, Category 1, 1C006(d)—

Repeal

“Fluorocarbon electronic cooling fluids,”

Substitute

“Fluorocarbon fluids designed for electronic cooling and”.

- (135) Schedule 1, Dual-use Goods List, Category 1, 1C007—

Repeal the Technical Note.

- (136) Schedule 1, Dual-use Goods List, Category 1, at the end of 1C007—

Add

“Technical Note:

For the purposes of 1C007, ‘precursor materials’ are special purpose polymeric or metallo-organic materials used for the “production” of silicon carbide, silicon nitride, or ceramics with silicon, carbon and nitrogen.”.

- (137) Schedule 1, Dual-use Goods List, Category 1, 1C010(c)—
Repeal everything before 1C010(c)(2)

Substitute

“(c) Inorganic “fibrous or filamentary materials”, having all of the following characteristics:

(1) Either—

- (a) Composed of 50% or more by weight silicon dioxide and having a “specific modulus” exceeding 2.54×10^6 m; *or*
(b) Not specified in 1C010(c)(1)(a) and having a “specific modulus” exceeding 5.6×10^6 m;”.

- (138) Schedule 1, Dual-use Goods List, Category 1, 1C101—

Repeal

““unmanned aerial vehicles””

Substitute

“unmanned aerial vehicles”.

- (139) Schedule 1, Dual-use Goods List, Category 1, 1C101, Note 2—

Repeal the Technical Note.

- (140) Schedule 1, Dual-use Goods List, Category 1, at the end of 1C101—

Add

Section 3

“Technical Note:

In 1C101, ‘missiles’ means complete rocket systems and unmanned aerial vehicle systems capable of a range exceeding 300 km.”.

- (141) Schedule 1, Dual-use Goods List, Category 1, 1C107(a)—

Repeal

“at least 1.72 g/cc measured at 15°C”

Substitute

“1.72 g/cm³ or greater, measured at 288 K (15°C)”.

- (142) Schedule 1, Dual-use Goods List, Category 1, 1C111(a)(4)(c)—

Repeal

“N,N diallylhydrazine”

Substitute

“N,N-Diallylhydrazine”.

- (143) Schedule 1, Dual-use Goods List, Category 1, 1C111(a)(5)—

Repeal

“usable in ‘missiles’ or “unmanned aerial vehicles””

Substitute

“usable in ‘missiles’ or unmanned aerial vehicles”.

- (144) Schedule 1, Dual-use Goods List, Category 1, 1C111(a)(5)(b), Note—

Repeal

““unmanned aerial vehicles””

Substitute

“unmanned aerial vehicles”.

Section 3

- (145) Schedule 1, Dual-use Goods List, Category 1, 1C111(b)(6)—

Repeal

“Polyglycidyl”

Substitute

“See the Munitions List for polyglycidyl”.

- (146) Schedule 1, Dual-use Goods List, Category 1, 1C111(c)(4)—

Repeal

“Trimethylolethane”

Substitute

“See the Munitions List for trimethylolethane”.

- (147) Schedule 1, Dual-use Goods List, Category 1, 1C111(c)(6)(a), after “catocene”—

Add

“(CAS 37206-42-1)”.

- (148) Schedule 1, Dual-use Goods List, Category 1, 1C111(c)(6)(b), after “ferrocene”—

Add

“(CAS 1273-89-8)”.

- (149) Schedule 1, Dual-use Goods List, Category 1, 1C111(c)(6)(c)—

Repeal

“Propyl ferrocene”

Substitute

“n-Propyl ferrocene (CAS 1273-92-3)/iso-propyl ferrocene (CAS 12126-81-7)”.

Section 3

- (150) Schedule 1, Dual-use Goods List, Category 1,
1C111(c)(6)(d), after “ferrocene”—
Add
“(CAS 31904-29-7)”.
- (151) Schedule 1, Dual-use Goods List, Category 1,
1C111(c)(6)(e), after “ferrocene”—
Add
“(CAS 1274-00-6)”.
- (152) Schedule 1, Dual-use Goods List, Category 1,
1C111(c)(6)(f), after “ferrocene”—
Add
“(CAS 125861-17-8)”.
- (153) Schedule 1, Dual-use Goods List, Category 1,
1C111(c)(6)(h), after “ferrocene”—
Add
“(CAS 1273-97-8)”.
- (154) Schedule 1, Dual-use Goods List, Category 1,
1C111(c)(6)(j), after “ferrocene”—
Add
“(CAS 1274-08-4)”.
- (155) Schedule 1, Dual-use Goods List, Category 1,
1C111(c)(6)(k), after “ferrocene”—
Add
“(CAS 93894-59-8)”.
- (156) Schedule 1, Dual-use Goods List, Category 1,
1C111(c)(6)(l)—
Repeal
“ferrocene/1,1’-diacetyl ferrocene”

Section 3

Substitute

“ferrocene (CAS 1271-55-2)/1,1'-diacetyl ferrocene (CAS 1273-94-5)”.

- (157) Schedule 1, Dual-use Goods List, Category 1, 1C111(c)(6)(m), after “acids”—

Add

“(CAS 1271-42-7)/1,1'-Ferrocenedicarboxylic acid (CAS 1293-87-4)”.

- (158) Schedule 1, Dual-use Goods List, Category 1, 1C111(c)(6)(n), after “butacene”—

Add

“(CAS 125856-62-4)”.

- (159) Schedule 1, Dual-use Goods List, Category 1—

Repeal 1C111(c)(7)

Substitute

“(7) 4,5-Diazidomethyl-2-methyl-1,2,3-triazole (iso-DAMTR), other than that specified in the Munitions List;”.

- (160) Schedule 1, Dual-use Goods List, Category 1, 1C111(d), after “Gel propellants’,—

Add

“other than that specified in the Munitions List.”.

- (161) Schedule 1, English text, Dual-use Goods List, Category 1, 1C116, Technical Note 1—

Repeal

“alloys that are”

Substitute

“alloy that is”.

- (162) Schedule 1, Dual-use Goods List, Category 1, 1C116,
Technical Note 1(a)—

Repeal

“for the strengthening and age-hardening of the alloys”

Substitute

“to produce strengthening and age-hardening of the alloy”.

- (163) Schedule 1, Dual-use Goods List, Category 1, 1C116,
Technical Note 2—

Repeal

““unmanned aerial vehicle””

Substitute

“unmanned aerial vehicle”.

- (164) Schedule 1, Dual-use Goods List, Category 1, 1C230—

Repeal

“foregoing;”

Substitute

“foregoing, other than that specified in the Munitions List;

N.B.:

See also the Munitions List.”.

- (165) Schedule 1, Dual-use Goods List, Category 1, 1C239,
after “2%”—

Add

“by weight”.

- (166) Schedule 1, English text, Dual-use Goods List, Category 1,
1C239—

Section 3

Repeal

“1.8 gm/cm³”

Substitute

“1.8 g/cm³”.

(167) Schedule 1, Dual-use Goods List, Category 1—

Repeal 1C350

Substitute

“1C350 Chemicals, which may be used as precursors for toxic chemical agents, as follows, and “chemical mixtures” containing one or more of the chemicals:

N.B.:

See also 1C450;

See also the Munitions List.

- (1) Thiodiglycol (CAS 111-48-8);
- (2) Phosphorus oxychloride (CAS 10025-87-3);
- (3) Dimethyl methylphosphonate (CAS 756-79-6);
- (4) Methyl phosphonyldifluoride (CAS 676-99-3) in the Munitions List;
- (5) Methyl phosphonyl dichloride (CAS 676-97-1);
- (6) Dimethylphosphite (DMP) (CAS 868-85-9);
- (7) Phosphorus trichloride (CAS 7719-12-2);
- (8) Trimethyl phosphite (TMP) (CAS 121-45-9);

Section 3

- (9) Thionyl chloride (CAS 7719-09-7);
- (10) 3-Hydroxy-1-methylpiperidine (CAS 3554-74-3);
- (11) N,N-Diisopropyl-(beta)-aminoethyl chloride (CAS 96-79-7);
- (12) N,N-Diisopropyl-(beta)-aminoethane thiol (CAS 5842-07-9);
- (13) 3-Quinuclidinol (CAS 1619-34-7);
- (14) Potassium fluoride (CAS 7789-23-3);
- (15) 2-Chloroethanol (CAS 107-07-3);
- (16) Dimethylamine (CAS 124-40-3);
- (17) Diethyl ethylphosphonate (CAS 78-38-6);
- (18) Diethyl-N,N-dimethylphosphoramidate (CAS 2404-03-7);
- (19) Diethyl phosphite (CAS 762-04-9);
- (20) Dimethylamine hydrochloride (CAS 506-59-2);
- (21) Ethyl phosphinyl dichloride (CAS 1498-40-4);
- (22) Ethyl phosphonyl dichloride (CAS 1066-50-8);
- (23) Ethyl phosphonyl difluoride (CAS 753-98-0) in the Munitions List;
- (24) Hydrogen fluoride (CAS 7664-39-3);
- (25) Methyl benzilate (CAS 76-89-1);
- (26) Methyl phosphinyl dichloride (CAS 676-83-5);

Section 3

- (27) N,N-Diisopropyl-(beta)-amino ethanol (CAS 96-80-0);
- (28) Pinacolyl alcohol (CAS 464-07-3);
- (29) See the Munitions List for O-Ethyl O-2-di-isopropylaminoethyl methylphosphonite (QL) (CAS 57856-11-8);
- (30) Triethyl phosphite (CAS 122-52-1);
- (31) Arsenic trichloride (CAS 7784-34-1);
- (32) Benzilic acid (CAS 76-93-7);
- (33) Diethyl methylphosphonite (CAS 15715-41-0);
- (34) Dimethyl ethylphosphonate (CAS 6163-75-3);
- (35) Ethyl phosphinyl difluoride (CAS 430-78-4);
- (36) Methyl phosphinyl difluoride (CAS 753-59-3);
- (37) 3-Quinuclidone (CAS 3731-38-2);
- (38) Phosphorus pentachloride (CAS 10026-13-8);
- (39) Pinacolone (CAS 75-97-8);
- (40) Potassium cyanide (CAS 151-50-8);
- (41) Potassium bifluoride (CAS 7789-29-9);
- (42) Ammonium hydrogen fluoride or ammonium bifluoride (CAS 1341-49-7);
- (43) Sodium fluoride (CAS 7681-49-4);
- (44) Sodium bifluoride (CAS 1333-83-1);

Section 3

- (45) Sodium cyanide (CAS 143-33-9);
- (46) Triethanolamine (CAS 102-71-6);
- (47) Phosphorus pentasulphide (CAS 1314-80-3);
- (48) Di-isopropylamine (CAS 108-18-9);
- (49) Diethylaminoethanol (CAS 100-37-8);
- (50) Sodium sulphide (CAS 1313-82-2);
- (51) Sulphur monochloride (CAS 10025-67-9);
- (52) Sulphur dichloride (CAS 10545-99-0);
- (53) Triethanolamine hydrochloride (CAS 637-39-8);
- (54) N,N-Diisopropyl-(beta)-aminoethyl chloride hydrochloride (CAS 4261-68-1);
- (55) Methylphosphonic acid (CAS 993-13-5);
- (56) Diethyl methylphosphonate (CAS 683-08-9);
- (57) N,N-Dimethyl aminophosphoryl dichloride (CAS 677-43-0);
- (58) Triisopropyl phosphite (CAS 116-17-6);
- (59) Ethyl diethanolamine (CAS 139-87-7);
- (60) O,O-Diethyl phosphorothioate (CAS 2465-65-8);
- (61) O,O-Diethyl phosphorodithioate (CAS 298-06-6);
- (62) Sodium hexafluorosilicate (CAS 16893-85-9);

- (63) Methyl phosphonothioic dichloride (CAS 676-98-2);
- (64) Diethylamine (CAS 109-89-7);
- (65) N,N-Diisopropylaminoethanethiol hydrochloride (CAS 41480-75-5);
- (66) Methyl dichlorophosphate (CAS 677-24-7);
- (67) Ethyl dichlorophosphate (CAS 1498-51-7);
- (68) Methyl difluorophosphate (CAS 22382-13-4);
- (69) Ethyl difluorophosphate (CAS 460-52-6);
- (70) Diethyl chlorophosphite (CAS 589-57-1);
- (71) Methyl chlorofluorophosphate (CAS 754-01-8);
- (72) Ethyl chlorofluorophosphate (CAS 762-77-6);
- (73) N,N-Dimethylformamidine (CAS 44205-42-7);
- (74) N,N-Diethylformamidine (CAS 90324-67-7);
- (75) N,N-Dipropylformamidine (CAS 48044-20-8);
- (76) N,N-Diisopropylformamidine (CAS 857522-08-8);
- (77) N,N-Dimethylacetamidine (CAS 2909-14-0);
- (78) N,N-Diethylacetamidine (CAS 14277-06-6);

Section 3

- (79) N,N-Dipropylacetamide (CAS 1339586-99-0);
- (80) N,N-Dimethylpropanamide (CAS 56776-14-8);
- (81) N,N-Diethylpropanamide (CAS 84764-73-8);
- (82) N,N-Dipropylpropanamide (CAS 1341496-89-6);
- (83) N,N-Dimethylbutanamide (CAS 1340437-35-5);
- (84) N,N-Diethylbutanamide (CAS 53510-30-8);
- (85) N,N-Dipropylbutanamide (CAS 1342422-35-8);
- (86) N,N-Diisopropylbutanamide (CAS 1315467-17-4);
- (87) N,N-Dimethylisobutanamide (CAS 321881-25-8);
- (88) N,N-Diethylisobutanamide (CAS 1342789-47-2);
- (89) N,N-Dipropylisobutanamide (CAS 1342700-45-1);

Notes:

1. 1C350 does not control “chemical mixtures” containing one or more of the chemicals specified in entries 1C350(2), (6), (7), (8), (9), (10), (14), (15), (16), (19), (20), (24), (25), (30), (37), (38), (39), (40), (41), (42), (43), (44), (45), (46), (47), (48), (49), (50), (51), (52), (53), (58), (59), (60), (61), (62), (64), (66), (67), (68), (69), (70), (71), (72), (73), (74), (75), (76), (77), (78), (79), (80), (81), (82), (83), (84), (85), (86), (87), (88) and (89) in which no individually specified chemical constitutes more than 30% by the weight of the mixture.
2. 1C350 does not control products identified as consumer goods packaged for retail sale for personal use or packaged for individual use.”.

(168) Schedule 1, English text, Dual-use Goods List, Category 1, 1C351(a)(15)—

Repeal

“Goat pox”

Substitute

“Goatpox”.

(169) Schedule 1, English text, Dual-use Goods List, Category 1, 1C351(a)(38)—

Repeal

“Peste des petits ruminants”

Substitute

“Peste-des-petits-ruminants”.

Section 3

- (170) Schedule 1, English text, Dual-use Goods List, Category 1,
1C351(a)(48)—

Repeal

“nombre”

Substitute

“Nombre”.

- (171) Schedule 1, Dual-use Goods List, Category 1, after
1C351(a)(58)—

Add

“(59) Middle East respiratory syndrome-related coronavirus
(MERS-related coronavirus);”.

- (172) Schedule 1, Dual-use Goods List, Category 1,
1C351(c)(7)—

Repeal

“Chlamydophila psittaci (formally known as chlamydia
psittaci)”

Substitute

“Chlamydia psittaci (Chlamydophila psittaci)”.

- (173) Schedule 1, English text, Dual-use Goods List, Category 1,
1C351(c)(8)—

Repeal

“clostridium”

Substitute

“Clostridium”.

- (174) Schedule 1, English text, Dual-use Goods List, Category 1,
1C351(d)(3)—

Repeal

“Conotoxin”

Substitute

“Conotoxins”.

- (175) Schedule 1, English text, Dual-use Goods List, Category 1, 1C351(d)(7)—

Repeal

“staphylococcus”

Substitute

“Staphylococcus”.

- (176) Schedule 1, Dual-use Goods List, Category 1, 1C353(a)(2), after “specific to”—

Add

“any”.

- (177) Schedule 1, Dual-use Goods List, Category 1, 1C353—

Renumber the Note as Note 1.

- (178) Schedule 1, Dual-use Goods List, Category 1, 1C353, after Note 1—

Add

“2. 1C353 does not control “vaccines”.”.

- (179) Schedule 1, English text, Dual-use Goods List, Category 1, 1C354(b)(5)—

Repeal

“Race 3, Biovar 2”

Substitute

“race 3, biovar 2”.

- (180) Schedule 1, Dual-use Goods List, Category 1, 1C450, after “and toxic chemical precursors, as follows”—

Section 3

Add

“, and “chemical mixtures” containing one or more toxic chemicals and toxic chemical precursors”.

- (181) Schedule 1, Dual-use Goods List, Category 1, 1C450(a)(1)—

Repeal

“78-53-5”

Substitute

“CAS 78-53-5”.

- (182) Schedule 1, Dual-use Goods List, Category 1, 1C450(a)(2)—

Repeal

“382-21-8”

Substitute

“CAS 382-21-8”.

- (183) Schedule 1, Dual-use Goods List, Category 1, 1C450(a)(3)—

Repeal

“6581-06-2”

Substitute

“CAS 6581-06-2”.

- (184) Schedule 1, Dual-use Goods List, Category 1, 1C450(a)(4)—

Repeal

“75-44-5”

Substitute

“CAS 75-44-5”.

Section 3

(185) Schedule 1, Dual-use Goods List, Category 1,
1C450(a)(5)—

Repeal

“506-77-4”

Substitute

“CAS 506-77-4”.

(186) Schedule 1, Dual-use Goods List, Category 1,
1C450(a)(6)—

Repeal

“74-90-8”

Substitute

“CAS 74-90-8”.

(187) Schedule 1, Dual-use Goods List, Category 1,
1C450(a)(7)—

Repeal

“76-06-02”

Substitute

“CAS 76-06-02”.

(188) Schedule 1, Dual-use Goods List, Category 1,
1C450(b)(1)—

Repeal

“944-22-9”

Substitute

“CAS 944-22-9”.

(189) Schedule 1, Dual-use Goods List, Category 1, 1C450(b)(2),
after “1C350”—

Section 3

Add

“(57)”.

- (190) Schedule 1, Dual-use Goods List, Category 1,
1C450(b)(5)—

Repeal

“96-80-0”

Substitute

“CAS 96-80-0”.

- (191) Schedule 1, Dual-use Goods List, Category 1,
1C450(b)(5)—

Repeal

“(100-37-8) which”

Substitute

“(CAS 100-37-8) which”.

- (192) Schedule 1, Dual-use Goods List, Category 1,
1C450(b)(5)(a)—

Repeal

“108-01-0”

Substitute

“CAS 108-01-0”.

- (193) Schedule 1, Dual-use Goods List, Category 1,
1C450(b)(5)(b)—

Repeal

“100-37-8”

Substitute

“CAS 100-37-8”.

Section 3

(194) Schedule 1, Dual-use Goods List, Category 1,
1C450(b)(6)—

Repeal

“5842-07-9”

Substitute

“CAS 5842-07-9”.

(195) Schedule 1, Dual-use Goods List, Category 1,
1C450(b)(6)—

Repeal

“41480-75-5”

Substitute

“CAS 41480-75-5”.

(196) Schedule 1, Dual-use Goods List, Category 1,
1C450(b)(7)—

Repeal

“139-87-7”

Substitute

“CAS 139-87-7”.

(197) Schedule 1, Dual-use Goods List, Category 1,
1C450(b)(8)—

Repeal

“105-59-9”

Substitute

“CAS 105-59-9”.

(198) Schedule 1, Dual-use Goods List, Category 1, at the end
of 1C450—

Add

“Notes:

1. 1C450 does not control “chemical mixtures” containing one or more of the chemicals specified in entries 1C450(a)(4), (5), (6) and (7) and (b)(8) in which no individually specified chemical constitutes more than 30% by the weight of the mixture.
2. 1C450 does not control products identified as consumer goods packaged for retail sale for personal use or packaged for individual use.”.

(199) Schedule 1, Dual-use Goods List, Category 1, 1E001—

Repeal

“items”

Substitute

“equipment or materials”.

(200) Schedule 1, Dual-use Goods List, Category 1, 1E002(f),
Note—

Repeal

“in aircraft”

Substitute

“in “aircraft””.

(201) Schedule 1, Dual-use Goods List, Category 2, 2A001—

Repeal the Note before 2A001(a).

(202) Schedule 1, Dual-use Goods List, Category 2, 2A001(a)—

Repeal

“Class 4 (or national equivalents)”

Substitute

“Class 4 or Class 2 (or national equivalents of these classes)”.

- (203) Schedule 1, Dual-use Goods List, Category 2, 2A001(c), after “the following”—

Add

“, and specially designed components for the systems”.

- (204) Schedule 1, English text, Dual-use Goods List, Category 2, 2A101—

Repeal

“all the following”

Substitute

“all of the following”.

- (205) Schedule 1, Dual-use Goods List, Category 2, 2B, Technical Note 3—

Repeal

“Numerical Control—of machines coordinate system and Motion Nomenclature.”

Substitute

“Numerical control of machines—Coordinate system and motion nomenclature.”.

- (206) Schedule 1, Dual-use Goods List, Category 2, 2B, Technical Note 5—

Repeal

“‘Stated’ ‘unidirectional positioning repeatability’ may”

Substitute

“‘Stated ‘unidirectional positioning repeatability’ may”.

Section 3

- (207) Schedule 1, Dual-use Goods List, Category 2, 2B,
Technical Note 5(d)—

Repeal

“stated” “unidirectional positioning repeatability” values”

Substitute

“stated “unidirectional positioning repeatability”-values”.

- (208) Schedule 1, Dual-use Goods List, Category 2, 2B,
Technical Note 5(e)—

Repeal

“stated” “unidirectional positioning repeatability””

Substitute

“stated “unidirectional positioning repeatability”””.

- (209) Schedule 1, English text, Dual-use Goods List, Category 2,
2B001, Note 3, after “entry”—

Add

“of”.

- (210) Schedule 1, Dual-use Goods List, Category 2, 2B001,
after Note 3—

Add

“4. A machine tool having an additive manufacturing capability in addition to a turning, milling or grinding capability must be evaluated against each applicable entry of 2B001(a), (b) or (c).”.

- (211) Schedule 1, English text, Dual-use Goods List, Category 2,
2B001(c), Note 1—

Repeal

“having all the following”

Substitute

“having all of the following”.

- (212) Schedule 1, Dual-use Goods List, Category 2—

Repeal 2B003

Substitute

“2B003 “Numerically controlled” machine tools, specially designed for the shaving, finishing, grinding or honing of hardened ($R_c = 40$ or more) spur, helical and double-helical gears having all of the following:

- (a) A pitch diameter exceeding 1 250 mm;
- (b) A face width of 15% of pitch diameter or larger;
- (c) A finished quality of AGMA 14 or better (equivalent to ISO 1328 class 3);”.

- (213) Schedule 1, English text, Dual-use Goods List, Category 2, 2B006(a)—

Repeal

““numerically controlled” coordinate measuring machines”

Substitute

““numerical controlled” Coordinate Measuring Machines”.

- (214) Schedule 1, Dual-use Goods List, Category 2—

Repeal 2B006(b)(1)

Substitute

- “(1) ‘Non-contact type measuring systems’ with a resolution equal to or less (better) than $0.2 \mu\text{m}$ within 0 to 0.2 mm of the ‘measuring range’;

Technical Notes:

1. For the purposes of 2B006(b)(1), ‘non-contact type measuring systems’ are designed to measure the distance between the probe and measured object along a single vector, where the probe or measured object is in motion.
2. For the purposes of 2B006(b)(1), ‘measuring range’ means the distance between the minimum and maximum working distance.”.

(215) Schedule 1, Dual-use Goods List, Category 2, 2B006(b)(3)(b)—

Repeal

““resolution””

Substitute

“resolution”.

(216) Schedule 1, Dual-use Goods List, Category 2, 2B007(c)—

Repeal

“Gy (Si)”

Substitute

“Gy (silicon)”.

(217) Schedule 1, Dual-use Goods List, Category 2, after 2B007(c)—

Add

“Technical Note:

The term Gy (silicon) refers to the energy in Joules per kilogram absorbed by an unshielded silicon sample when exposed to ionising radiation.”.

Section 3

- (218) Schedule 1, Dual-use Goods List, Category 2, 2B105—
Repeal
“CVD”
Substitute
“Chemical vapour deposition (CVD)”.
- (219) Schedule 1, Dual-use Goods List, Category 2—
Repeal 2B109(a)(1)
Substitute
“(1) Equipped with or, according to the manufacturer’s technical specification, are capable of being equipped with “numerical control” units or computer control;”.
- (220) Schedule 1, Dual-use Goods List, Category 2, 2B116(a)—
Repeal
“20 Hz to 2 kHz”
Substitute
“20 Hz and 2 kHz”.
- (221) Schedule 1, Dual-use Goods List, Category 2, 2B120(c)(3)—
Repeal
“accuracy”
Substitute
““accuracy””.
- (222) Schedule 1, Dual-use Goods List, Category 2, 2B120, Note 1, before “machine tool rotary tables”—
Add
“controls on”.

- (223) Schedule 1, Dual-use Goods List, Category 2, 2B120,
Note 2—

Repeal

“so specified”

Substitute

“controlled”.

- (224) Schedule 1, Dual-use Goods List, Category 2, 2B121(b)—

Repeal

“accuracy”

Substitute

““accuracy””.

- (225) Schedule 1, Dual-use Goods List, Category 2, 2B122,
Note—

Repeal

“so specified”

Substitute

“controlled”.

- (226) Schedule 1, Dual-use Goods List, Category 2, 2B201,
Technical Note—

Repeal everything before paragraph (a)

Substitute

“Stated positioning accuracy levels derived under the following procedures from measurements made according to ISO 230/2 (1988) or national equivalents may be used for each machine tool model if provided to, and accepted by, national authorities instead of individual machine tests. Stated positioning accuracy is determined as follows:”.

Section 3

- (227) Schedule 1, English text, Dual-use Goods List, Category 2, 2B201, Technical Note (c)—

Repeal

“value (A)”

Substitute

“values (A)”.

- (228) Schedule 1, Dual-use Goods List, Category 2, 2B201, Technical Note (d)—

Repeal

“positioning accuracy”

Substitute

“positioning accuracy”.

- (229) Schedule 1, Dual-use Goods List, Category 2, 2B201, Technical Note (e)—

Repeal

“positioning accuracy”

Substitute

“positioning accuracy”.

- (230) Schedule 1, Dual-use Goods List, Category 2, 2B201, Technical Note (f)—

Repeal

“positioning accuracy”

Substitute

“positioning accuracy”.

- (231) Schedule 1, Dual-use Goods List, Category 2, 2B201(a)(1)—

Section 3

Repeal

“Positioning accuracies”

Substitute

“Positioning accuracies”.

- (232) Schedule 1, Dual-use Goods List, Category 2, 2B201(a),
Note (b)—

Repeal

“positioning accuracy”

Substitute

“positioning accuracy”.

- (233) Schedule 1, Dual-use Goods List, Category 2,
2B201(b)(1)—

Repeal

“Positioning accuracies”

Substitute

“Positioning accuracies”.

- (234) Schedule 1, Dual-use Goods List, Category 2, 2B201(b),
Note 2—

Repeal

“positioning accuracy”

Substitute

“positioning accuracy”.

- (235) Schedule 1, Dual-use Goods List, Category 2, 2B201(c)—

Repeal

“positioning accuracies”

Substitute

“positioning accuracies”.

Section 3

- (236) Schedule 1, Dual-use Goods List, Category 2, 2B206(a),
Technical Note—

Repeal

““all compensations available””

Substitute

“all compensations available”.

- (237) Schedule 1, Dual-use Goods List, Category 2, 2B206(a),
Technical Note—

Repeal

“1.7 + L/800”

Substitute

“(1.7 + L/800)”.

- (238) Schedule 1, Dual-use Goods List, Category 2,
2B206(c)(2)(a)—

Repeal

““resolution””

Substitute

“resolution”.

- (239) Schedule 1, Dual-use Goods List, Category 2, before
2B206(d)(1)—

Add

“*Technical Note:*

For the purposes of 2B206(d), ‘linear displacement’ means the change of distance between the measuring probe and the measured object.”.

- (240) Schedule 1, Dual-use Goods List, Category 2—

Repeal 2B219(b)(3)

Substitute

“(3) A minimum achievable residual specific unbalance equal to or less than 10 g mm/kg per plane;”.

(241) Schedule 1, Dual-use Goods List, Category 2, 2B225—

Repeal

“and hot”

Substitute

“or hot”.

(242) Schedule 1, Dual-use Goods List, Category 2—

Repeal 2B350(g)(1)(a)

Substitute

“(a) A ‘nominal size’ greater than DN 10 or NPS 3/8;”.

(243) Schedule 1, Dual-use Goods List, Category 2—

Repeal 2B350(g)(2)(a)

Substitute

“(a) A ‘nominal size’ equal to or greater than DN 25 or NPS 1 and equal to or less than DN 100 or NPS 4;”.

(244) Schedule 1, English text, Dual-use Goods List, Category 2, 2B350(g)(2)(d)—

Repeal

“preformed casing”

Substitute

“preformed case”.

Section 3

- (245) Schedule 1, Dual-use Goods List, Category 2, 2B350(g),
Technical Note 1(e), (f), (g) and (h)—

Repeal

“alloys”

Substitute

“alloys”.

- (246) Schedule 1, Dual-use Goods List, Category 2, 2B350(g),
after Technical Note 2—

Add

“3. Nominal sizes (DN) of valves are in accordance with
ISO 6708:1995. Nominal Pipe Sizes (NPS) are in
accordance with ASME B36.10 or B36.19 or national
equivalents.”.

- (247) Schedule 1, Dual-use Goods List, Category 2,
2B350(i)(3)—

Repeal

“alloys”

Substitute

“alloys”.

- (248) Schedule 1, Dual-use Goods List, Category 2, 2B351—

Repeal

“detectors; sensor devices; and replaceable sensor
cartridges”

Substitute

“detectors, sensor devices and replaceable sensor cartridges
for the monitors, systems and components”.

- (249) Schedule 1, Dual-use Goods List, Category 2,
2B352(b)(1)—

Section 3

Repeal

“Fermenters”

Substitute

“Fermenters”.

- (250) Schedule 1, Dual-use Goods List, Category 2, 2B352(b)(1)—

Repeal

“capacity”

Substitute

“internal volume”.

- (251) Schedule 1, Dual-use Goods List, Category 2, 2B352(b)(2)—

Repeal

“for ‘fermenters’”

Substitute

“for fermenters specified”.

- (252) Schedule 1, Dual-use Goods List, Category 2, 2B352(b)—

Repeal the Technical Note

Substitute

“*Technical Notes:*

1. For the purposes of 2B352(b), fermenters include bioreactors, single-use (disposable) bioreactors, chemostats and continuous-flow systems.
2. Cultivation chamber holding devices include single-use cultivation chambers with rigid walls.”.

- (253) Schedule 1, English text, Dual-use Goods List, Category 2, 2B352(c)—

Section 3

Repeal

“having all the following”

Substitute

“having all of the following”.

- (254) Schedule 1, Dual-use Goods List, Category 2, 2B352(f)(2),
after Note 2—

Add

“3. 2B352(f)(2) includes any isolator meeting all the
characteristics mentioned in 2B352(f)(2)(a) to (d),
regardless of its intended use and its designation.”.

- (255) Schedule 1, Dual-use Goods List, Category 2, 2B352(h)—

Repeal

““toxins””

Substitute

“toxins”.

- (256) Schedule 1, Dual-use Goods List, Category 2,
2B352(h)(3)—

Repeal

““sterilized’ or ‘disinfected””

Substitute

“sterilized or disinfected”.

- (257) Schedule 1, Dual-use Goods List, Category 2, 2D001(a),
after “2B001”—

Add

“to 2B009”.

- (258) Schedule 1, Dual-use Goods List, Category 2,
2E003(b)(1)(c)—

Section 3

Repeal

““Direct-acting hydraulic pressing””

Substitute

“Direct-acting hydraulic pressing”.

- (259) Schedule 1, Dual-use Goods List, Category 2, after 2E003(b)(1)(c)—

Add

“*Technical Note:*

‘Direct-acting hydraulic pressing’ is a deformation process which uses a fluid-filled flexible bladder in direct contact with the workpiece.”.

- (260) Schedule 1, Dual-use Goods List, Category 2—

Repeal 2E003(b)(2).

- (261) Schedule 1, Dual-use Goods List, Category 2, at the end of 2E003(b)—

Add

“*N.B.:*

For “technology” for metal-working manufacturing processes for gas turbine engines and components, see 9E003 and ML22.”.

- (262) Schedule 1, Dual-use Goods List, Category 2, 2E003(f), Nota Bene—

Repeal

“technology”

Substitute

““technology””.

- (263) Schedule 1, Dual-use Goods List, Category 2, 2E003(f), Nota Bene—

Repeal

“when the ‘Resultant Coating’”

Substitute

“when the Resultant Coating”.

- (264) Schedule 1, Dual-use Goods List, Category 2, 2E003(f),
Nota Bene—

Repeal

“coating process technical data”

Substitute

“‘coating process’ technical data”.

- (265) Schedule 1, Dual-use Goods List, Category 2, 2E003(f),
Nota Bene—

Repeal

“‘Resultant Coating’ is not listed”

Substitute

“resultant coating is not listed”.

- (266) Schedule 1, Dual-use Goods List, Category 2, 2E, before
heading “TABLE—DEPOSITION TECHNIQUES”—

Add

“2E101 “Technology” according to the General
Technology Note for the “use” of equipment
or “software” controlled by 2B004, 2B009,
2B104, 2B109, 2B116, 2B119 to 2B122 or
2D101;

Section 3

2E201 “Technology” according to the General Technology Note for the “use” of equipment or “software” specified in 2A225, 2A226, 2B001, 2B006, 2B007(b), 2B007(c), 2B008, 2B009, 2B201, 2B204, 2B206, 2B207, 2B209, 2B225 to 2B233, 2D201 or 2D202;

2E301 “Technology” according to the General Technology Note for the “use” of goods controlled by 2B350 to 2B352;”.

- (267) Schedule 1, Dual-use Goods List, Category 2, 2E, under heading “TABLE—DEPOSITION TECHNIQUES—NOTES”, paragraph 2—

Repeal

“‘alloyed aluminide’ coating”

Substitute

“‘alloyed aluminide coating’”.

- (268) Schedule 1, English text, Dual-use Goods List, Category 2, 2E, under heading “TABLE—DEPOSITION TECHNIQUES—NOTES”, paragraph 10—

Repeal

“‘airfoils’”

Substitute

“‘aerofoils’”.

- (269) Schedule 1, Dual-use Goods List, Category 2, 2E, under heading “TABLE—DEPOSITION TECHNIQUES—NOTES”, paragraph 17—

Repeal

“‘Technology’ specially designed to deposit diamond-like carbon on any of the following is not controlled:”

Substitute

Section 3

““Technology” for depositing diamond-like carbon on any of the following is not included.”.

- (270) Schedule 1, Dual-use Goods List, Category 2, 2E, under heading “TABLE—DEPOSITION TECHNIQUES—STATEMENT OF UNDERSTANDING”, paragraphs 1, 2, 3 and 4—

Repeal

““Technology””

Substitute

“Technical information”.

- (271) Schedule 1, Dual-use Goods List, Category 2, 2E, under heading “TABLE—DEPOSITION TECHNIQUES—STATEMENT OF UNDERSTANDING”, paragraph 5—

Repeal

““Technology””

Substitute

“Technical information”.

- (272) Schedule 1, English text, Dual-use Goods List, Category 2, 2E, under heading “TABLE—DEPOSITION TECHNIQUES—STATEMENT OF UNDERSTANDING”, paragraph 5(b)(7)(a)—

Repeal

“Wave length”

Substitute

“Wavelength”.

- (273) Schedule 1, Dual-use Goods List, Category 2, 2E, under heading “TABLE—DEPOSITION TECHNIQUES—STATEMENT OF UNDERSTANDING”—

Repeal everything after paragraph 5 and before Category 3.

- (274) Schedule 1, Dual-use Goods List, Category 3, 3A, Note 1, after “3A001(a)(14)”—

Add

“and 3A001(b)(12)”.

- (275) Schedule 1, Dual-use Goods List, Category 3, 3A, after Note 2—

Add

“3. The status of wafers (finished or unfinished), in which the function has been determined, is to be evaluated against the parameters of 3A001(a), 3A001(b), 3A001(d), 3A001(e)(4), 3A001(g), 3A001(h) or 3A001(i).”.

- (276) Schedule 1, English text, Dual-use Goods List, Category 3, 3A001(a), Notes before 3A001(a)(1)—

Repeal

“Notes”

Substitute

“Note”.

- (277) Schedule 1, Dual-use Goods List, Category 3—

Repeal Note 1 before 3A001(a)(1).

- (278) Schedule 1, Dual-use Goods List, Category 3, 3A001(a), Note 2 before 3A001(a)(1)—

Repeal

“2. Integrated circuits include the following types:”

Substitute

“Integrated circuits include the following types:”.

- (279) Schedule 1, English text, Dual-use Goods List, Category 3, 3A001(a)(2)—

Repeal

“static random-access memories”

Substitute

“Static Random-Access Memories”.

- (280) Schedule 1, Dual-use Goods List, Category 3, 3A001(a)(2), Note, after “integrated circuits”—

Add

“designed”.

- (281) Schedule 1, Dual-use Goods List, Category 3—

Repeal 3A001(a)(5)(b)(1) and (2)

Substitute

- “(1) A resolution of 10 bit or more but less than 12 bit, with an ‘adjusted update rate’ exceeding 3 500 MSPS;
- (2) A resolution of 12 bit or more and having any of the following:
- (a) An ‘adjusted update rate’ exceeding 1 250 MSPS but not exceeding 3 500 MSPS, and having any of the following:
- (1) A settling time less than 9 ns to 0.024% of full scale from a full scale step;
- (2) A ‘Spurious Free Dynamic Range’ (SFDR) greater than 68 dBc (carrier) when synthesizing a full scale analogue signal of 100 MHz or the highest full scale analogue signal frequency specified below 100 MHz;
- (b) An ‘adjusted update rate’ exceeding 3 500 MSPS;”.

- (282) Schedule 1, English text, Dual-use Goods List, Category 3, 3A001(b)(1)(a)—

Section 3

Repeal

“Travelling wave”

Substitute

“Travelling-wave”.

(283) Schedule 1, Dual-use Goods List, Category 3,
3A001(b)(1)(a)(1)—

Repeal

“Operating”

Substitute

“Devices operating”.

(284) Schedule 1, Dual-use Goods List, Category 3,
3A001(b)(1)(a)(2)—

Repeal

“Having”

Substitute

“Devices having”.

(285) Schedule 1, Dual-use Goods List, Category 3,
3A001(b)(1)(a)(4)—

Repeal

“Based”

Substitute

“Devices based”.

(286) Schedule 1, Dual-use Goods List, Category 3,
3A001(b)(1)(a)(5)—

Repeal

“With”

Substitute

“Devices with”.

- (287) Schedule 1, Dual-use Goods List, Category 3,
3A001(b)(3)—

Repeal Note 1

Substitute

“1. When the rated operating frequency of a transistor mentioned in 3A001(b)(3)(a) to 3A001(b)(3)(e) includes frequencies listed in more than one frequency range, as defined by 3A001(b)(3)(a) to 3A001(b)(3)(e), the control status of the transistor is determined by the lowest peak saturated power output threshold.”.

- (288) Schedule 1, Dual-use Goods List, Category 3,
3A001(b)(4)(b)(1)—

Repeal

“(48.54 dBm)”

Substitute

“(48.45 dBm)”.

- (289) Schedule 1, English text, Dual Use Goods List, Category 3,
3A001(b)(9)—

Repeal

“travelling wave”

Substitute

“travelling-wave”.

- (290) Schedule 1, Dual-use Goods List, Category 3—

Repeal 3A001(b)(11)(e)

Substitute

Section 3

“(e) Less than 100 μ s for any frequency change exceeding 2.2 GHz within the synthesised frequency range exceeding 37 GHz but not exceeding 75 GHz;

(f) Less than 100 μ s for any frequency change exceeding 5.0 GHz within the synthesised frequency range exceeding 75 GHz but not exceeding 90 GHz;”.

(291) Schedule 1, English text, Dual Use Goods List, Category 3, 3A001(b)(11)(g)—

Repeal

“synthesized”

Substitute

“synthesised”.

(292) Schedule 1, Dual-use Goods List, Category 3, 3A001(e)(1)—

Repeal the Note

Substitute

“*Note:*

3A001(e)(1) does not apply to batteries, including single cell batteries.”.

(293) Schedule 1, Dual-use Goods List, Category 3, 3A001(f)—

Repeal

“accuracy”

Substitute

““accuracy””.

(294) Schedule 1, Dual-use Goods List, Category 3, 3A001(h), Note 2—

Repeal

“(DDMOSFET)”

Section 3

Substitute

“(DMOSFET)”.

- (295) Schedule 1, English text, Dual-use Goods List, Category 3, 3A002(c)(2), after “having”—

Add

“a”.

- (296) Schedule 1, Dual-use Goods List, Category 3, 3A002(c)(4)(a)—

Repeal

““Real-time bandwidth””

Substitute

““Real-time bandwidth””.

- (297) Schedule 1, Dual-use Goods List, Category 3, 3A002(c)(4)(b)(2)—

Repeal

““frequency mask trigger””

Substitute

““frequency mask trigger””.

- (298) Schedule 1, Dual-use Goods List, Category 3, 3A002(c)(4)(b)—

Repeal the Technical Notes.

- (299) Schedule 1, Dual-use Goods List, Category 3, 3A002(c)(4), before the Note—

Add

“*Technical Notes:*”

1. For the purposes of 3A002(c)(4)(a), ‘real-time bandwidth’ is the widest frequency range for which the analyser can continuously transform time-domain

Section 3

data entirely into frequency-domain results, using a Fourier or other discrete time transform that processes every incoming time point, without a reduction of measured amplitude of more than 3 dB below the actual signal amplitude caused by gaps or windowing effects, while outputting or displaying the transformed data.

2. For the purposes of 3A002(c)(4)(b)(1), probability of discovery is also referred to as probability of intercept or probability of capture.
3. For the purposes of 3A002(c)(4)(b)(1), the duration for 100% probability of discovery is equivalent to the minimum signal duration necessary for the specified level measurement uncertainty.
4. For the purposes of 3A002(c)(4)(b)(2), a ‘frequency mask trigger’ is a mechanism where the trigger function is able to select a frequency range to be triggered on as a subset of the acquisition bandwidth while ignoring other signals that may also be present within the same acquisition bandwidth. A ‘frequency mask trigger’ may contain more than one independent set of limits.”.

(300) Schedule 1, Dual-use Goods List, Category 3, 3A002(d)(3)(e)—

Repeal

“90 GHz”

Substitute

“75 GHz”.

(301) Schedule 1, Dual-use Goods List, Category 3, at the end of 3A002(d)(3)—

Add

Section 3

“(g) Less than 100 μ s for any frequency change exceeding 5.0 GHz within the frequency range exceeding 75 GHz but not exceeding 90 GHz;”.

- (302) Schedule 1, Dual-use Goods List, Category 3, 3A002(d)(5)(c)—

Repeal

“90 GHz”

Substitute

“75 GHz”.

- (303) Schedule 1, Dual-use Goods List, Category 3, after 3A002(d)(5)(c)—

Add

“(d) Exceeding 5.0 GHz within the frequency range exceeding 75 GHz but not exceeding 90 GHz;”.

- (304) Schedule 1, Dual-use Goods List, Category 3, 3A228(a), Note—

Repeal

“3A228”

Substitute

“3A228(a)”.

- (305) Schedule 1, Chinese text, Dual-use Goods List, Category 3, 3B001(b)(2)—

Repeal

“氚”

Substitute

“氚”.

- (306) Schedule 1, Dual-use Goods List, Category 3—

Repeal 3B001(f)(3)(b)(4).

Section 3

- (307) Schedule 1, Dual-use Goods List, Category 3, at the end of 3B001(f)(3)—

Add

- “(4) Equipment designed for device processing using direct writing methods, having all of the following:
- (a) A deflected focused electron beam;
 - (b) Having any of the following:
 - (1) A minimum beam size equal to or smaller than 15 nm;
 - (2) An overlay error less than 27 nm (mean + 3 sigma);”.

- (308) Schedule 1, Dual-use Goods List, Category 3, 3B001(h), after the Note—

Add

“*N.B.*:

For masks and reticles, specially designed for optical sensors, see 6B002.”.

- (309) Schedule 1, Dual-use Goods List, Category 3, 3C001(d)—

Repeal

“III/V compounds”

Substitute

““III/V compounds””.

- (310) Schedule 1, Dual-use Goods List, Category 3, after 3C001(d)—

Add

- “(e) Gallium Oxide (Ga_2O_3);
(f) Diamond;”.

- (311) Schedule 1, Dual-use Goods List, Category 3, 3C005(a)—

Section 3

Repeal

“or aluminium gallium nitride (AlGaN)”

Substitute

“, aluminium gallium nitride (AlGaN), gallium oxide (Ga₂O₃) or diamond”.

(312) Schedule 1, Dual-use Goods List, Category 3, 3C005(b)—

Repeal

“or aluminium gallium nitride (AlGaN)”

Substitute

“aluminium gallium nitride (AlGaN), gallium oxide (Ga₂O₃) or diamond”.

(313) Schedule 1, Dual-use Goods List, Category 3—

Repeal 3C006

Substitute

“3C006 Materials, not specified in 3C001, consisting of a “substrate” specified in 3C005 with at least one epitaxial layer of silicon carbide (SiC), gallium nitride (GaN), aluminium nitride (AlN), aluminium gallium nitride (AlGaN), gallium oxide (Ga₂O₃) or diamond”.

(314) Schedule 1, Dual-use Goods List, Category 3—

Repeal 3D003

Substitute

“3D003 ‘Computational lithography’ “software” specially designed for the “development” of patterns on EUV-lithography masks or reticles;

Technical Note:

‘Computational lithography’ is the use of computer modelling to predict, correct, optimize and verify imaging performance of the lithography process over a range of patterns, processes, and system conditions.”.

(315) Schedule 1, Dual-use Goods List, Category 3, after 3D005—

Add

“3D006 ‘Electronic Computer-Aided Design’ (‘ECAD’) “software” specially designed for the “development” of integrated circuits having any “Gate-All-Around Field-Effect Transistor” (“GAAFET”) structure, and having any of the following:

- (a) Specially designed for implementing ‘Register Transfer Level’ (‘RTL’) to ‘Geometrical Database Standard II’ (‘GDSII’) or equivalent standard;
- (b) Specially designed for optimization of power or timing rules;

Technical Notes:

1. ‘Electronic Computer-Aided Design’ (‘ECAD’) is a category of “software” tools used for designing, analyzing, optimizing, and validating the performance of integrated circuit or printed circuit board.

Section 3

2. ‘Register Transfer Level’ (‘RTL’) is a design abstraction which models a synchronous digital circuit in terms of the flow of digital signals between hardware registers, and the logical operations performed on those signals.
3. ‘Geometrical Database Standard II’ (‘GDSII’) is a database file format for data exchange of integrated circuit or integrated circuit layout artwork.”.

(316) Schedule 1, Dual-use Goods List, Category 3, 3E002(a) and (b)—

Repeal

“floating-point” (wherever appearing)

Substitute

“floating-point”.

(317) Schedule 1, Dual-use Goods List, Category 3, 3E002(c)—

Repeal

“fixed-point”

Substitute

“fixed-point”.

(318) Schedule 1, Dual-use Goods List, Category 3, 3E002—

Repeal

“Notes:

1. 3E002 does not”

Substitute

“*Technical Notes:*

1. For the purposes of 3E002(a) and 3E002(b), ‘floating-point’ is defined by IEEE-754.

2. For the purposes of 3E002(c), ‘fixed-point’ refers to a fixed-width real number with both an integer component and a fractional component, and which does not include integer-only formats.

Notes:

1. 3E002 does not”.
- (319) Schedule 1, Dual-use Goods List, Category 3, 3E003(d)—
Repeal
“of films”.
- (320) Schedule 1, Dual-use Goods List, Category 3, after 3E003(g)—
Add
“(h) Substrates of gallium oxide for electronic components;”.
- (321) Schedule 1, Dual-use Goods List, Category 3, after 3E003—
Add
“3E004 “Technology” “required” for the slicing, grinding and polishing of 300 mm diameter silicon wafers to achieve a ‘Site Front least sQuares Range’ (‘SFQR’) less than or equal to 20 nm at any site of 26 mm × 8 mm on the front surface of the wafer and an edge exclusion less than or equal to 2 mm.

Technical Note:

For the purposes of 3E004, ‘SFQR’ is the range of maximum deviation and minimum deviation from front reference plane, calculated by least square method with all front surface data including site boundary within a site.”.

Section 3

- (322) Schedule 1, Dual-use Goods List, Category 4, Note 2, before 4A—

Repeal

““main storage””

Substitute

“main storage”.

- (323) Schedule 1, Dual-use Goods List, Category 4, Note 2, before 4A, after the **Nota Bene**—

Add

“Technical Note:

‘Main storage’ is the primary storage for data or instructions for rapid access by a central processing unit. It consists of the internal storage of a “digital computer” and any hierarchical extension to the “digital computer”, such as cache storage or non-sequentially accessed extended storage.”.

- (324) Schedule 1, Dual-use Goods List, Category 4, 4A001(b)—

Repeal the Nota Bene.

- (325) Schedule 1, Dual-use Goods List, Category 4, 4A003, Note 1(a)—

Repeal

“Vector processors”

Substitute

““Vector processors””.

- (326) Schedule 1, Dual-use Goods List, Category 4, 4A003(b)—

Repeal

“29”

Substitute

Section 3

“70”.

(327) Schedule 1, Dual-use Goods List, Category 4, 4A102—

Repeal

““Hybrid computers””

Substitute

“Hybrid computers”.

(328) Schedule 1, Dual-use Goods List, Category 4, 4A102,
Note—

Repeal

“software”

Substitute

““software””.

(329) Schedule 1, Dual-use Goods List, Category 4, 4D003—

Repeal the Nota Bene.

(330) Schedule 1, Dual-use Goods List, Category 4, 4E001—

Repeal the Note

Substitute

“Notes:

1. 4E001(a) and 4E001(c) do not control “vulnerability disclosure” or “cyber incident response”.
2. Note 1 does not diminish the rights of the competent authority of the country in which the exporter is established to ascertain compliance with 4E001(a) and 4E001(c).”.

(331) Schedule 1, Dual-use Goods List, Category 4, 4E001—

Repeal the Technical Notes.

(332) Schedule 1, Dual-use Goods List, Category 5, Part 1,
Note 1 before 5A1—

Repeal Nota Bene 2.

- (333) Schedule 1, Dual-use Goods List, Category 5, Part 1, 5A001(d)—

Repeal

““Electronically steerable phased array antennae””

Substitute

“Electronically steerable phased array antennae”.

- (334) Schedule 1, Dual-use Goods List, Category 5, Part 1, 5A001(d), Note 1—

Repeal

““electronically steerable phased array antennae””

Substitute

“electronically steerable phased array antennae”.

- (335) Schedule 1, Dual-use Goods List, Category 5, Part 1, 5A001(d), after the Notes—

Add

“*Technical Note:*

For the purposes of 5A001(d), ‘electronically steerable phased array antenna’ is an antenna which forms a beam by means of phase coupling (i.e. the beam direction is controlled by the complex excitation coefficients of the radiating elements), and the direction of that beam can be varied (both in transmission and reception) in azimuth or in elevation, or both, by application of an electrical signal.”.

- (336) Schedule 1, English text, Dual-use Goods List, Category 5, Part 1, 5A001(f)—

Repeal

“equipments”

Section 3

Substitute

“equipment”.

- (337) Schedule 1, Dual-use Goods List, Category 5, Part 1, 5A001(h)(1), after “Devices”—

Add

“(IEDs)”.

- (338) Schedule 1, Dual-use Goods List, Category 5, Part 1, 5A001(j)(2)(a)—

Repeal

“hard selectors”

Substitute

“hard selectors”.

- (339) Schedule 1, Dual-use Goods List, Category 5, Part 1, 5A001(j)—

Repeal the Technical Note.

- (340) Schedule 1, Dual-use Goods List, Category 5, Part 1, 5A101—

Repeal

“Telemetry”

Substitute

“Telemetry”.

- (341) Schedule 1, Dual-use Goods List, Category 5, Part 1, after 5D001(d)—

Add

- “(e) “Software”, other than that specified in 5D001(a) or 5D001(c), specially designed or modified for monitoring or analysis by law enforcement, providing all of the following:

- (1) Execution of searches on the basis of “hard selectors” of either the content of communication or metadata acquired from a communications service provider using a ‘handover interface’;
- (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 5D001(e)(1);

Technical Notes:

1. For the purposes of 5D001(e), a ‘handover interface’ is a physical and logical interface, designed for use by an authorized law enforcement authority, across which targeted interception measures are requested from a communications service provider and the results of interception are delivered from a communications service provider to the requesting authority. The ‘handover interface’ is implemented within systems or equipment (e.g. mediation devices) that receive and validate the interception request, and deliver to the requesting authority only the results of interception that fulfil the validated request.
2. ‘Handover interfaces’ may be specified by international standards (including but not limited to ETSI TS 101 331, ETSI TS 101 671 or 3GPP TS 33.108) or national equivalents.

Note:

5D001(e) does not control “software” specially designed or modified for any of the following:

- (a) Billing purposes;
- (b) Network Quality of Service (QoS);
- (c) Quality of Experience (QoE);
- (d) Mediation devices;
- (e) Mobile payment or banking use.”.

- (342) Schedule 1, Dual-use Goods List, Category 5, Part 1, 5E001(a), after “5D001(a)”—

Add

“or 5D001(e)”.

- (343) Schedule 1, English text, Dual-use Goods List, Category 5, Part 1, 5E001(b)(1)—

Repeal

““Required” “technology””

Substitute

““Technology” “required””.

- (344) Schedule 1, Dual-use Goods List, Category 5, Part 2, 5A002(a)—

Repeal

“by means of “cryptographic activation” not employing a secure mechanism”

Substitute

“by any means other than secure “cryptographic activation””.

- (345) Schedule 1, Dual-use Goods List, Category 5, Part 2, 5A002(a), Note 2(f)—

Repeal

everything after ““personal area network” functionality,”

Substitute

“implementing only published or commercial cryptographic standards;”.

- (346) Schedule 1, Dual-use Goods List, Category 5, Part 2, 5A002(a), Note 2(h), after “switches”—

Add

“, gateways”.

- (347) Schedule 1, English text, Dual-use Goods List, Category 5, Part 2, 5A003(a)—

Repeal

“using”

Substitute

“to use”.

- (348) Schedule 1, Dual-use Goods List, Category 5, Part 2, after 5A004(a)—

Add

“(b) Items, not specified in 4A005 or 5A004(a), designed to perform all of the following:

- (1) ‘Extract raw data’ from a computing or communications device;
- (2) Circumvent “authentication” or authorization controls of the device, in order to perform the function described in 5A004(b)(1);

Section 3

Technical Note:

‘Extract raw data’ from a computing or communications device means to retrieve binary data from a storage medium (e.g., RAM, flash or hard disk) of the device without interpretation by the device’s operating system or file system.

Notes:

1. 5A004(b) does not control systems or equipment specially designed for the “development” or “production” of a computing or communications device.
2. 5A004(b) does not include any of the following:
 - (a) Debuggers, hypervisors;
 - (b) Items limited to logical data extraction;
 - (c) Data extraction items using chip-off or JTAG;
 - (d) Items specially designed and limited to jail-breaking or rooting.”.

(349) Schedule 1, Dual-use Goods List, Category 5, Part 2—

Repeal 5D002(a)(3)

Substitute

“(3) Equipment or “software”, as follows:

- (a) Equipment specified in 5A004(a) or “software” specified in 5D002(c)(3)(a);
- (b) Equipment specified in 5A004(b) or “software” specified in 5D002(c)(3)(b);”.

(350) Schedule 1, Dual-use Goods List, Category 5, Part 2—

Repeal 5D002(c)(3)

Substitute

Section 3

“(3) Equipment, as follows:

- (a) Equipment specified in 5A004(a);
- (b) Equipment specified in 5A004(b);

Note:

5D002(c)(3)(b) does not control “intrusion software”.

(351) Schedule 1, Dual-use Goods List, Category 5, Part 2, after 5E002(a)—

Add

Note:

5E002(a) does not control “technology” for items specified in 5A004(b), 5D002(a)(3)(b) or 5D002(c)(3)(b).”.

(352) Schedule 1, Dual-use Goods List, Category 6, 6A001(a)(1)(a)(1)(d)—

Repeal

“accuracy through compensation for all”

Substitute

““accuracy” through compensation for all of”.

(353) Schedule 1, Dual-use Goods List, Category 6, 6A001(a)(1)(a)(2), Technical Note—

Repeal

“the underwater survey equipment”

Substitute

“the underwater survey equipment specified in 6A001(a)(1)(a)(2)”.

(354) Schedule 1, Dual-use Goods List, Category 6, 6A001(a)(1)(a)(2)(b)(4)—

Repeal

Section 3

“Enhancement of the depth accuracy”

Substitute

“‘Enhancement’ of the depth “accuracy””.

- (355) Schedule 1, Dual-use Goods List, Category 6, 6A001(a)(1)(a)(3)—

Repeal

“*Technical Notes:*

1. ‘Area coverage rate’ (m²/s) is twice the product of the maximum sonar range (m) and the maximum speed (m/s) at which the sensor can operate.
2. ‘Along track resolution’ (cm), for SSS only, is the product of azimuth (horizontal) beamwidth (degrees) and maximum sonar range (m) and 0.873.
3. ‘Across track resolution’ (cm) is 75 divided by the signal bandwidth (kHz).”.

- (356) Schedule 1, Dual-use Goods List, Category 6, 6A001(a)(1)(d)(2) and (e)(2)—

Repeal

“Positioning accuracy”

Substitute

“Determined position error”.

- (357) Schedule 1, Dual-use Goods List, Category 6, before 6A001(a)(2)(a)—

Add

“*Note:*

6A001(a)(2) also applies to receiving equipment, whether or not related in normal application to separate active equipment, and specially designed components for the receiving equipment.”.

(358) Schedule 1, Dual-use Goods List, Category 6—

Repeal the Technical Note before 6A001(a)(2)(a)(1)

Substitute

“Technical Notes:

1. Hydrophones consist of one or more sensing elements producing a single acoustic output channel. Those that contain multiple elements can be referred to as a hydrophone group.
2. For the purposes of 6A001(a)(2)(a), underwater acoustic transducers designed to operate as passive receivers are hydrophones.”.

(359) Schedule 1, Dual-use Goods List, Category 6, 6A001(a)(2)(a)(4)—

Repeal

“hydrophone sensitivity”

Substitute

“hydrophone sensitivity”.

(360) Schedule 1, English text, Dual-use Goods List, Category 6, 6A001(a)(2)(a)(5)—

Repeal

“When designed”

Substitute

“Designed”.

(361) Schedule 1, Dual-use Goods List, Category 6, 6A001(a)(2)(a)(6), after “exceeding 1 000 m”—

Add

“and having a ‘hydrophone sensitivity’ better than -230 dB below 4 kHz”.

Section 3

- (362) Schedule 1, Dual-use Goods List, Category 6, Technical Note 3 after 6A001(a)(2)(a)(6)—

Repeal

“Hydrophone sensitivity”

Substitute

““Hydrophone sensitivity””.

- (363) Schedule 1, Dual-use Goods List, Category 6, 6A001(a)(2)(d)(1)—

Repeal

“Any accuracy”

Substitute

“An “accuracy””.

- (364) Schedule 1, Dual-use Goods List, Category 6—

Repeal the Note after the Technical Notes to 6A001(a)(2)(g).

- (365) Schedule 1, Dual-use Goods List, Category 6, 6A001(b)(1)(b) and (2)—

Repeal

“accuracy”

Substitute

““accuracy””.

- (366) Schedule 1, English text, Dual-use Goods List, Category 6, 6A002(b)(2), after “having all”—

Add

“of”.

- (367) Schedule 1, English text, Dual-use Goods List, Category 6, 6A002(c), after “imaging equipment incorporating”—

Add

Section 3

“any of the following”.

- (368) Schedule 1, Dual-use Goods List, Category 6, 6A002(c),
Technical Note—

Repeal

“, operating in the visible or infrared spectrum,”.

- (369) Schedule 1, English text, Dual-use Goods List, Category 6,
6A002(f)—

Repeal

“(“FPA”)” (wherever appearing).

- (370) Schedule 1, Dual-use Goods List, Category 6,
6A003(b)(1)—

Repeal

“camera tracking data” (wherever appearing)

Substitute

“camera tracking data”.

- (371) Schedule 1, Dual-use Goods List, Category 6, 6A003(b)(4),
Note 3(b)(1)—

Repeal

“10 mrad”

Substitute

“2 mrad”.

- (372) Schedule 1, English text, Dual-use Goods List, Category 6,
6A003(b)(4), Notes 4(a)(2)(a) and (3)—

Repeal

“system”

Substitute

Section 3

“system(s)”.

- (373) Schedule 1, Dual-use Goods List, Category 6,
6A004(a)(4)(a) and (b)(1), after “major axis”—

Add

“length”.

- (374) Schedule 1, Dual-use Goods List, Category 6,
6A004(c)(4)—

Repeal

“ 5×10^{-6} ”

Substitute

“ $5 \times 10^{-6}/K$ ”.

- (375) Schedule 1, Dual-use Goods List, Category 6,
6A004(d)(2)(a)—

Repeal

“that is greater than 50 mm and”

Substitute

“length that is greater than 50 mm, and having”.

- (376) Schedule 1, Dual-use Goods List, Category 6,
6A004(d)(2)(a)(3)—

Repeal

“accuracy of 10 μ rad (microradians) or less”

Substitute

““accuracy” of 10 μ rad (microradians) or less (better)”.

- (377) Schedule 1, Dual-use Goods List, Category 6,
6A004(d)(2)(b)—

Repeal

“accuracy of 10 μ rad or less”

Substitute

““accuracy” of 10 μ rad or less (better)”.

- (378) Schedule 1, Dual-use Goods List, Category 6, 6A004(e)—

Repeal

“Aspheric optical elements”

Substitute

“Aspheric optical elements”.

- (379) Schedule 1, Dual-use Goods List, Category 6, 6A004(e)(2)—

Repeal

“rms”

Substitute

“(rms)”.

- (380) Schedule 1, Dual-use Goods List, Category 6, 6A004(e),
Note and Nota Bene—

Repeal

“aspheric optical elements”

Substitute

“aspheric optical elements”.

- (381) Schedule 1, Dual-use Goods List, Category 6, 6A005—

Repeal

- “2. Excimer, semiconductor, chemical, CO, CO₂, and
‘non-repetitive pulsed’ Nd:glass “lasers” are only
specified in 6A005(d).

Technical Note:

‘Non-repetitive pulsed’ refers to “lasers” that produce
either a single output pulse or that have a time interval
between pulses exceeding 1 minute.”

Substitute

“2. Excimer, semiconductor, chemical, CO, CO₂, and ‘non-repetitive pulsed’ Nd:glass “lasers” are only specified in 6A005(d).

Technical Note:

‘Non-repetitive pulsed’ refers to “lasers” that produce either a single output pulse or that have a time interval between pulses exceeding 1 minute.”.

(382) Schedule 1, Dual-use Goods List, Category 6, Notes before 6A005(a), after Note 5—

Add

“6. For the purposes of 6A005(a) and 6A005(b), ‘single transverse mode’ refers to “lasers” with a beam profile having an M²-factor of less than 1.3, while ‘multiple transverse mode’ refers to “lasers” with a beam profile having an M²-factor of 1.3 or higher.”.

(383) Schedule 1, Dual-use Goods List, Category 6, 6A005(a)(3)(a)—

Repeal

“Single-transverse mode”

Substitute

““Single transverse mode””.

(384) Schedule 1, Dual-use Goods List, Category 6, 6A005(a)(3)(b)—

Repeal

“Multiple-transverse mode”

Substitute

““Multiple transverse mode””.

Section 3

(385) Schedule 1, Dual-use Goods List, Category 6, 6A005(a)(5)(a)—

Repeal

“Single-transverse mode”

Substitute

“Single transverse mode”.

(386) Schedule 1, Dual-use Goods List, Category 6, 6A005(a)(5)(b)—

Repeal

“Multiple-transverse mode”

Substitute

“Multiple transverse mode”.

(387) Schedule 1, Dual-use Goods List, Category 6—

Repeal 6A005(a)(6)(a)

Substitute

“(a) ‘Single transverse mode’ output and:

- (1) Output power exceeding 1 000 W; or
- (2) Output power exceeding 500 W and spectral bandwidth less than 40 GHz; or ”.

(388) Schedule 1, Dual-use Goods List, Category 6, 6A005(a)(6)(b)—

Repeal

“Multiple-transverse mode”

Substitute

“Multiple transverse mode”.

(389) Schedule 1, Dual-use Goods List, Category 6, 6A005(a)(6)(b)(1)—

Section 3

Repeal

“500 W”

Substitute

“1 000 W”.

- (390) Schedule 1, Dual-use Goods List, Category 6,
6A005(a)(6)(b), Notes—

Repeal

“multiple-transverse mode” (wherever appearing)

Substitute

“multiple transverse mode”.

- (391) Schedule 1, Dual-use Goods List, Category 6,
6A005(a)(6)(b)—

Repeal Note 2(a).

- (392) Schedule 1, Dual-use Goods List, Category 6,
6A005(a)(6)(b), Note 2(e)—

Repeal

“4 kW”

Substitute

“6 kW”.

- (393) Schedule 1, Dual-use Goods List, Category 6,
6A005(a)(6)(b)—

Repeal Note 2(f) and (g).

- (394) Schedule 1, Dual-use Goods List, Category 6,
6A005(a)(6)(b), Note 2—

Repeal the Technical Note.

- (395) Schedule 1, Dual-use Goods List, Category 6,
6A005(a)(7)(a)—

Repeal

Section 3

“Single-transverse mode”

Substitute

“Single transverse mode”.

- (396) Schedule 1, Dual-use Goods List, Category 6, 6A005(a)(7)(b)—

Repeal

“Multiple-transverse mode”

Substitute

“Multiple transverse mode”.

- (397) Schedule 1, Dual-use Goods List, Category 6, 6A005(a)(9)(a)—

Repeal

“Single transverse mode”

Substitute

“Single transverse mode”.

- (398) Schedule 1, Dual-use Goods List, Category 6, 6A005(a)(9)(b)—

Repeal

“Multiple transverse mode”

Substitute

“Multiple transverse mode”.

- (399) Schedule 1, Dual-use Goods List, Category 6, 6A005(b)(3)(a)—

Repeal

“Single-transverse mode”

Substitute

“Single transverse mode”.

Section 3

(400) Schedule 1, Dual-use Goods List, Category 6, 6A005(b)(3)(b)—

Repeal

“Multiple-transverse mode”

Substitute

“Multiple transverse mode”.

(401) Schedule 1, Dual-use Goods List, Category 6, 6A005(b)(5)(a)(2) and (b)(2)—

Repeal

“Single-transverse mode”

Substitute

“Single transverse mode”.

(402) Schedule 1, Dual-use Goods List, Category 6, 6A005(b)(5)(b)(3)—

Repeal

“Multiple-transverse mode”

Substitute

“Multiple transverse mode”.

(403) Schedule 1, Dual-use Goods List, Category 6, 6A005(b)(5)(c)(2)—

Repeal

“Single-transverse mode”

Substitute

“Single transverse mode”.

(404) Schedule 1, Dual-use Goods List, Category 6, 6A005(b)(5)(c)(3)—

Repeal

Section 3

“Multiple-transverse mode”

Substitute

“Multiple transverse mode”.

- (405) Schedule 1, Dual-use Goods List, Category 6, 6A005(b)(6)(c)(1)—

Repeal

“Single-transverse mode”

Substitute

“Single transverse mode”.

- (406) Schedule 1, Dual-use Goods List, Category 6, 6A005(b)(6)(c)(2)—

Repeal

“Multiple-transverse mode”

Substitute

“Multiple transverse mode”.

- (407) Schedule 1, Dual-use Goods List, Category 6, 6A005(b)(6)(d)(1)—

Repeal

“Single-transverse mode”

Substitute

“Single transverse mode”.

- (408) Schedule 1, Dual-use Goods List, Category 6, 6A005(b)(6)(d)(2)—

Repeal

“Multiple-transverse mode”

Substitute

“Multiple transverse mode”.

Section 3

(409) Schedule 1, Dual-use Goods List, Category 6,
6A005(b)(7)(a)(2)—

Repeal

“Single-transverse mode”

Substitute

“Single transverse mode”.

(410) Schedule 1, Dual-use Goods List, Category 6,
6A005(b)(7)(a)(3)—

Repeal

“Multiple-transverse mode”

Substitute

“Multiple transverse mode”.

(411) Schedule 1, Dual-use Goods List, Category 6,
6A005(b)(7)(b)(2)—

Repeal

“Single-transverse mode”

Substitute

“Single transverse mode”.

(412) Schedule 1, Dual-use Goods List, Category 6,
6A005(b)(7)(b)(3)—

Repeal

“Multiple-transverse mode”

Substitute

“Multiple transverse mode”.

(413) Schedule 1, Dual-use Goods List, Category 6,
6A005(b)(9)(a)—

Repeal

Section 3

“Single transverse mode”

Substitute

““Single transverse mode””.

- (414) Schedule 1, Dual-use Goods List, Category 6, 6A005(b)(9)(b)—

Repeal

“Multiple transverse mode”

Substitute

““Multiple transverse mode””.

- (415) Schedule 1, Dual-use Goods List, Category 6, 6A005(c)(1), Note—

Repeal

“dye lasers or other liquid lasers”

Substitute

“dye “lasers” or other liquid “lasers””.

- (416) Schedule 1, Dual-use Goods List, Category 6, 6A005(d)(1)(b)(1)—

Repeal

“15 W”

Substitute

“25 W”.

- (417) Schedule 1, Dual-use Goods List, Category 6, 6A005(d)(5)(b) and (c)(1) and (2)—

Repeal

“*and*”.

- (418) Schedule 1, Dual-use Goods List, Category 6, 6A005(e)(1)—

Section 3

Repeal

“*and*”.

- (419) Schedule 1, Dual-use Goods List, Category 6, 6A005(e)(3)—

Repeal

“Fibre laser”

Substitute

“Fibre “laser””.

- (420) Schedule 1, English text, Dual-use Goods List, Category 6, 6A005(e)(3)(a)(2)—

Repeal

“lease”

Substitute

“least”.

- (421) Schedule 1, Dual-use Goods List, Category 6—

Repeal 6A005(e)(3)(b)(3)(c).

- (422) Schedule 1, Dual-use Goods List, Category 6, at the end of 6A005(e)(3)—

Add

“(c) MLDs:

- (1) that are designed for the spectral or coherent beam combination of 5 or more fibre “lasers”; and
- (2) that have a CW “Laser” Induced Damage Threshold (LIDT) that is equal to or greater than 10 kW/cm².”.

- (423) Schedule 1, Dual-use Goods List, Category 6, 6A005(g)(1)—

Section 3

Repeal

“laser”

Substitute

““laser””.

- (424) Schedule 1, Dual-use Goods List, Category 6, 6A005(g)(2) and (3)—

Repeal

“Laser”

Substitute

““Laser””.

- (425) Schedule 1, Dual-use Goods List, Category 6, 6A006—

Repeal

“and “compensation systems””

Substitute

““compensation systems””.

- (426) Schedule 1, Dual-use Goods List, Category 6, 6A007(a) and (b)(1) and (2)—

Repeal

“accuracy”

Substitute

““accuracy””.

- (427) Schedule 1, Dual-use Goods List, Category 6, 6A008(a)(2)—

Repeal

“accuracy”

Substitute

““accuracy””.

Section 3

- (428) Schedule 1, Dual-use Goods List, Category 6, 6A008(b)—
Repeal
“centre operating frequency” (wherever appearing)
Substitute
“centre operating frequency”.
- (429) Schedule 1, Dual-use Goods List, Category 6—
Repeal 6A008(e)
Substitute
“(e) Incorporating electronically scanned array antennae;
Technical Note:
Electronically scanned array antennae are also known
as electronically steerable array antennae.”
- (430) Schedule 1, Dual-use Goods List, Category 6, 6A008(i)—
Repeal
““instrumented range” exceeding”
Substitute
“‘instrumented range’ exceeding”.
- (431) Schedule 1, English text, Dual-use Goods List, Category 6,
6A008(i), Note (b), after “provided that all”—
Add
“of”.
- (432) Schedule 1, Dual-use Goods List, Category 6, 6A008(i),
Note (b)(1)—
Repeal
““instrumented range””
Substitute
“‘instrumented range’”.

Section 3

- (433) Schedule 1, Dual-use Goods List, Category 6, 6A008(i),
after the Note—

Add

“Technical Note:

For the purposes of 6A008(i), ‘instrumented range’ is the
specified unambiguous display range of a radar.”.

- (434) Schedule 1, Dual-use Goods List, Category 6,
6A008(j)(3)—

Repeal

“lasers”

Substitute

““lasers””.

- (435) Schedule 1, Dual-use Goods List, Category 6, 6A008(l)(4),
Note—

Repeal

“used for”

Substitute

“designed for”.

- (436) Schedule 1, Dual-use Goods List, Category 6, 6A008,
Technical Note 1—

Repeal

“used to”

Substitute

“designed to”.

- (437) Schedule 1, Dual-use Goods List, Category 6, 6A008,
Technical Note 2—

Repeal

Section 3

“aircraft”

Substitute

““aircraft””.

- (438) Schedule 1, Dual-use Goods List, Category 6, 6A102, Technical Note, after “a radioactive material.”—

Add

“This includes devices that sense by one time operation or failure.”.

- (439) Schedule 1, Dual-use Goods List, Category 6, 6A108—

Repeal

“Radar systems and tracking systems”

Substitute

“Radar systems, tracking systems and radomes”.

- (440) Schedule 1, Dual-use Goods List, Category 6, 6A108(b), Technical Note—

Repeal

““unmanned aerial vehicle””

Substitute

“unmanned aerial vehicle”.

- (441) Schedule 1, Dual-use Goods List, Category 6, after 6A108(b)—

Add

- (c) Radomes designed to withstand a combined thermal shock greater than $4.184 \times 10^6 \text{ J/m}^2$ accompanied by a peak over pressure of greater than 50 kPa, and usable in “missiles” for protecting against nuclear effects (e.g. electromagnetic pulse (EMP), X-rays, combined blast and thermal effects);”.

(442) Schedule 1, Dual-use Goods List, Category 6—

Repeal 6A203(a)(4)

Substitute

“(4) Plug-ins specially designed for use with streak cameras that have modular structures and that enable the streak cameras to achieve the performance specifications in 6A203(a)(1) or 6A203(a)(2);”.

(443) Schedule 1, Dual-use Goods List, Category 6—

Repeal 6A203(b)(4)

Substitute

“(4) Plug-ins specially designed for use with framing cameras that have modular structures and that enable the framing cameras to achieve the performance specifications in 6A203(b)(1) or 6A203(b)(2);”.

(444) Schedule 1, Dual-use Goods List, Category 6—

Repeal 6A203(c)(4)

Substitute

“(4) Plug-ins specially designed for use with cameras that have modular structures and that enable the cameras to achieve the performance specifications in 6A203(c)(1);”.

(445) Schedule 1, Dual-use Goods List, Category 6,
6A205(a)(2)—

Repeal

“average output power”

Substitute

““average output power””.

(446) Schedule 1, Dual-use Goods List, Category 6,
6A205(b)(2)—

Repeal

“average output power”

Substitute

““average output power””.

- (447) Schedule 1, Dual-use Goods List, Category 6, 6A205(c)(2)—

Repeal

“average output power”

Substitute

““average output power””.

- (448) Schedule 1, Dual-use Goods List, Category 6, 6A205(d), after “Pulsed carbon dioxide”—

Add

“(CO₂)”.

- (449) Schedule 1, Dual-use Goods List, Category 6, 6A205(d)(3)—

Repeal

“average output power”

Substitute

““average output power””.

- (450) Schedule 1, Dual-use Goods List, Category 6, 6A205(f)(1)(a)—

Repeal

“average output power”

Substitute

““average output power””.

Section 3

- (451) Schedule 1, Dual-use Goods List, Category 6,
6A205(f)(1)(b)—

Repeal

“average output power”

Substitute

“average power”.

- (452) Schedule 1, Dual-use Goods List, Category 6,
6A205(f)(2)—

Repeal

“average output power”

Substitute

““average output power””.

- (453) Schedule 1, Dual-use Goods List, Category 6, 6A205(g),
after “Pulsed carbon monoxide”—

Add

“(CO)”.

- (454) Schedule 1, Dual-use Goods List, Category 6,
6A205(g)(3)—

Repeal

“average output power”

Substitute

““average output power””.

- (455) Schedule 1, Dual-use Goods List, Category 6, before
6B004—

Add

“6B002 Masks and reticles, specially designed for
optical sensors specified in 6A002(a)(1)(b) or
6A002(a)(1)(d);”.

Section 3

(456) Schedule 1, Dual-use Goods List, Category 6, 6B007—

Repeal

“accuracy”

Substitute

““accuracy””.

(457) Schedule 1, Dual-use Goods List, Category 6,
6C002(b)(1)—

Repeal

“mole fraction”

Substitute

““mole fraction””.

(458) Schedule 1, Dual-use Goods List, Category 6, 6C002(b),
Technical Note—

Repeal

“Mole fraction”

Substitute

““Mole fraction””.

(459) Schedule 1, Dual-use Goods List, Category 6,
6C005(b)(1)—

Repeal

“laser”

Substitute

““laser””.

(460) Schedule 1, Dual-use Goods List, Category 6,
6C005(b)(1)(b), after “Numerical Aperture”—

Add

“(‘NA’)”.

Section 3

(461) Schedule 1, Dual-use Goods List, Category 6, 6C005(b)(2)—

Repeal

“laser”

Substitute

““laser””.

(462) Schedule 1, Dual-use Goods List, Category 6, 6C005(b)(2)(b), after “Numerical Aperture”—

Add

“(NA)”.

(463) Schedule 1, Dual-use Goods List, Category 6, 6C005, Technical Note 1—

Repeal

“6C005,”

Substitute

“6C005(b),”.

(464) Schedule 1, Dual-use Goods List, Category 6, 6C005, Technical Note 1, after “Numerical Aperture”—

Add

“(NA)”.

(465) Schedule 1, Dual-use Goods List, Category 6, 6D003(d), after “major axis”—

Add

“length”.

(466) Schedule 1, Dual-use Goods List, Category 6, 6D003(f)(1)—

Repeal

“compensation systems”

Section 3

Substitute

““compensation systems””.

- (467) Schedule 1, Dual-use Goods List, Category 6,
6D003(h)(1)—

Repeal

“application “programmes””.

- (468) Schedule 1, Dual-use Goods List, Category 6,
6D003(h)(2)(a)—

Repeal

““electronically steerable phased array antennae””

Substitute

“electronically scanned array antennae”.

- (469) Schedule 1, Dual-use Goods List, Category 6, 6D103,
Technical Note—

Repeal

““unmanned aerial vehicle””

Substitute

“unmanned aerial vehicle”.

- (470) Schedule 1, Dual-use Goods List, Category 6,
6E003(a)(2)—

Repeal

“accuracies”

Substitute

““accuracies””.

- (471) Schedule 1, Dual-use Goods List, Category 7,
7A001(a)(3)—

Repeal

Section 3

“; *and*”

Substitute a semicolon.

- (472) Schedule 1, Dual-use Goods List, Category 7, 7A002(a)(1) and (2)—

Repeal

“A rate range”

Substitute

“An angular rate range”.

- (473) Schedule 1, Dual-use Goods List, Category 7—

Repeal the Technical Notes before 7A003(a)

Substitute

“*Technical Note:*

‘Positional aiding references’ independently provide position, and include all of the following:

- (a) “Satellite navigation system”;
- (b) “Data-Based Referenced Navigation” (“DBRN”).”.

- (474) Schedule 1, Dual-use Goods List, Category 7, 7A003(a)—

Repeal

“accuracies”

Substitute

““accuracies””.

- (475) Schedule 1, Dual-use Goods List, Category 7, 7A003(a)(1)—

Repeal

“‘Circular Error Probable’ (‘CEP’)”

Substitute

““Circular Error Probable” (‘CEP’)”.

- (476) Schedule 1, Dual-use Goods List, Category 7, 7A003(a)(2) and (3)—

Repeal

““CEP””

Substitute

““CEP””.

- (477) Schedule 1, Dual-use Goods List, Category 7, 7A003(b)—

Repeal

“an accuracy of less (better) than 10 metres ‘CEP’”

Substitute

“an “accuracy” of less (better) than 10 metres “CEP””.

- (478) Schedule 1, Dual-use Goods List, Category 7, 7A003(c)(1) and (2) and 7A004(a)—

Repeal

“accuracy”

Substitute

““accuracy””.

- (479) Schedule 1, Dual-use Goods List, Category 7, 7A005—

Repeal

“Global Navigation Satellite Systems (GNSS)”

Substitute

““Satellite navigation system””.

- (480) Schedule 1, Dual-use Goods List, Category 7, 7A005(b), Note—

Repeal

“GNSS”

Substitute

Section 3

““satellite navigation system””.

- (481) Schedule 1, Dual-use Goods List, Category 7, 7A008—

Repeal

“a positioning accuracy of equal to or less (better) than 3% of distance travelled ‘Circular Error Probable’ (‘CEP’)”

Substitute

“a positioning “accuracy” of equal to or less (better) than 3% of distance travelled “Circular Error Probable” (“CEP”)”.

- (482) Schedule 1, English text, Dual-use Goods List, Category 7, 7A101—

Repeal

“having all the following characteristics”

Substitute

“having all of the following characteristics”.

- (483) Schedule 1, Dual-use Goods List, Category 7, 7A102—

Repeal

“drift rate”

Substitute

““drift rate””.

- (484) Schedule 1, Dual-use Goods List, Category 7, 7A102, Technical Note 1—

Repeal

““unmanned aerial vehicle””

Substitute

“unmanned aerial vehicle”.

- (485) Schedule 1, Dual-use Goods List, Category 7, 7A103(c)—

Repeal

““Circle of Equal Probability” (CEP)”

Substitute

““CEP””.

- (486) Schedule 1, English text, Dual-use Goods List, Category 7, 7A103(c)—

Repeal

“*Technical Note:*”

Substitute

“*Technical Notes:*”.

- (487) Schedule 1, Dual-use Goods List, Category 7, 7A103(c)—

Renumber the Technical Note as Technical Note 1.

- (488) Schedule 1, Dual-use Goods List, Category 7, 7A103(c), after Technical Note 1—

Add

“2. In 7A103(c), ‘CEP’ (Circular Error Probable or Circle of Equal Probability) is a measure of accuracy, defined as the radius of the circle inside of which there is a 50% probability of being located.”.

- (489) Schedule 1, Dual-use Goods List, Category 7, 7A105(a)—

Repeal

““unmanned aerial vehicles””

Substitute

“unmanned aerial vehicles”.

- (490) Schedule 1, Dual-use Goods List, Category 7, 7A116(c)—

Repeal

Section 3

“over the entire range”.

- (491) Schedule 1, Dual-use Goods List, Category 7, 7A117—

Repeal

““CEP””

Substitute

“CEP”.

- (492) Schedule 1, Dual-use Goods List, Category 7, at the end
of 7A117—

Add

“Technical Note:

In 7A117, ‘CEP’ (Circular Error Probable or Circle of Equal Probability) is a measure of accuracy, defined as the radius of the circle centred at the target, at a specific range, in which 50% of the payloads impact.”.

- (493) Schedule 1, Dual-use Goods List, Category 7, 7B001,
Note—

Repeal

“Maintenance Level I or Maintenance Level II”

Substitute

“Maintenance Level I’ or ‘Maintenance Level II””.

- (494) Schedule 1, Dual-use Goods List, Category 7, 7B001,
Technical Note 1—

Repeal

“Maintenance Level I”

Substitute

“Maintenance Level I””.

- (495) Schedule 1, Dual-use Goods List, Category 7, 7B001,
Technical Note 1—

Section 3

Repeal

“aircraft”

Substitute

““aircraft””.

- (496) Schedule 1, Dual-use Goods List, Category 7, 7B001,
Technical Note 2—

Repeal

“Maintenance Level II” (wherever appearing)

Substitute

“Maintenance Level II”.

- (497) Schedule 1, Chinese text, Dual-use Goods List, Category 7,
7B002—

Repeal

“註釋”

Substitute

“注意”.

- (498) Schedule 1, Dual-use Goods List, Category 7, 7B002,
Nota Bene—

Repeal

“accuracy” (wherever appearing)

Substitute

““accuracy””.

- (499) Schedule 1, Dual-use Goods List, Category 7,
7D003(b)(2)—

Repeal

“Global navigation satellite systems (GNSS)”

Substitute

Section 3

““Satellite navigation system””.

- (500) Schedule 1, Dual-use Goods List, Category 7, 7D003(e)—

Repeal

“7E004(b)”

Substitute

“7E004(b)(1), 7E004(b)(3), 7E004(b)(4), 7E004(b)(5),
7E004(b)(7), 7E004(b)(8)”.

- (501) Schedule 1, Dual-use Goods List, Category 7, 7D005—

Repeal

“Global Navigation Satellite Systems (GNSS)”

Substitute

““satellite navigation system””.

- (502) Schedule 1, Dual-use Goods List, Category 7, 7E003,
Note—

Repeal

“Maintenance Level I or Maintenance Level II”

Substitute

“Maintenance Level I’ or ‘Maintenance Level II’”.

- (503) Schedule 1, Dual-use Goods List, Category 7, 7E004(a),
after ““production” of”—

Add

“any of the following”.

- (504) Schedule 1, Dual-use Goods List, Category 7,
7E004(a)(7)—

Repeal

“accuracy”

Substitute

Section 3

““accuracy””.

- (505) Schedule 1, Dual-use Goods List, Category 7, 7E004(b)(1)—

Repeal

“aircraft”

Substitute

““aircraft””.

- (506) Schedule 1, Dual-use Goods List, Category 7, 7E004(b)(5), Note—

Repeal

““Development” “technology”” (wherever appearing)

Substitute

““Technology””.

- (507) Schedule 1, Dual-use Goods List, Category 7, 7E004(b)(7), after ““fly-by-wire systems””—

Add

“having all of the following”.

- (508) Schedule 1, Dual-use Goods List, Category 7, 7E004(b)(7)(b)(4) and 7E004(b)(8)(a) and (b)—

Repeal

“aircraft”

Substitute

““aircraft””.

- (509) Schedule 1, Dual-use Goods List, Category 7, 7E004(c)(3)—

Repeal

““variable geometry airfoils””

Section 3

Substitute

““variable geometry aerofoils””.

- (510) Schedule 1, Dual-use Goods List, Category 7, at the end of 7E004(c)(3)—

Add

“*Technical Note:*

‘Variable geometry aerofoils’ use trailing edge flaps or tabs, or leading edge slats or pivoted nose droop, the position of which can be controlled in flight.”.

- (511) Schedule 1, English text, Dual-use Goods List, Category 8, 8A001(b)(1)—

Repeal

“all the following”

Substitute

“all of the following”.

- (512) Schedule 1, Dual-use Goods List, Category 8—

Repeal 8A001(c)

Substitute

“(c) Unmanned submersible vehicles as follows:

- (1) Unmanned submersible vehicles having any of the following:
 - (a) Designed for deciding a course relative to any geographical reference without real time human assistance;
 - (b) Acoustic data or command link;
 - (c) Optical data or command link exceeding 1 000 m;

Section 3

- (2) Unmanned submersible vehicles, not specified in 8A001(c)(1), having all of the following:
 - (a) Designed to operate with a tether;
 - (b) Designed to operate at depths exceeding 1 000 m;
 - (c) Having any of the following:
 - (1) Designed for self-propelled manoeuvre using propulsion motors or thrusters specified in 8A002(a)(2);
 - (2) Fibre optic data link;”.

(513) Schedule 1, Dual-use Goods List, Category 8—

Repeal 8A001(d).

(514) Schedule 1, Dual-use Goods List, Category 8, 8A001(e)(2)—

Repeal

“accuracies”

Substitute

““accuracies””.

(515) Schedule 1, Dual-use Goods List, Category 8, 8A002(b)—

Repeal

“using navigation data and having closed loop servo-controls”

Substitute

“using navigation data, having closed loop servo-controls and having any of the following”.

(516) Schedule 1, Dual-use Goods List, Category 8, 8A002(b)(2)—

Repeal

Section 3

“or”.

(517) Schedule 1, Dual-use Goods List, Category 8—

Repeal 8A002(d)

Substitute

“(d) Underwater vision systems having all of the following:

- (1) Specially designed or modified for remote operation with an underwater vehicle;
- (2) Employing any of the following techniques to minimize the effects of back scatter:
 - (a) Range-gated illuminators;
 - (b) Range-gated laser systems;”.

(518) Schedule 1, Dual-use Goods List, Category 8, 8A002(j)(3)—

Repeal

“Fuel cell”

Substitute

““Fuel cell””.

(519) Schedule 1, Dual-use Goods List, Category 8—

Repeal 8B001

Substitute

“8B001 Water tunnels designed to have a background noise of less than 100 dB (reference 1 μ Pa, 1 Hz) within the frequency range exceeding 0 Hz but not exceeding 500 Hz and designed for measuring acoustic fields generated by a hydro-flow around propulsion system models;”.

(520) Schedule 1, Dual-use Goods List, Category 8, 8C001—

Section 3

Repeal

“Syntactic foam” (wherever appearing)

Substitute

““Syntactic foam””.

- (521) Schedule 1, Dual-use Goods List, Category 8, 8C001,
Technical Note—

Repeal

“matrix”

Substitute

““matrix””.

- (522) Schedule 1, Dual-use Goods List, Category 8,
8E002(c)(4)(b)—

Repeal

“wave length”

Substitute

“wave height”.

- (523) Schedule 1, Dual-use Goods List, Category 9, 9A004—

Repeal

““spacecraft buses” and other systems or equipment
(including terrestrial equipment)”

Substitute

““spacecraft buses”, “spacecraft payloads”, “spacecraft”
on-board systems or equipment, terrestrial equipment, air-
launch platforms and “sub-orbital craft””.

- (524) Schedule 1, Dual-use Goods List, Category 9, 9A004(d)—

Repeal

“or described”.

Section 3

- (525) Schedule 1, Dual-use Goods List, Category 9, 9A004(e)(3),
Nota Bene—

Repeal

“the Munitions List.”

Substitute

“ML11(c).”.

- (526) Schedule 1, Dual-use Goods List, Category 9, after
9A004(f)—

Add

“(g) “Aircraft” specially designed or modified to be air-
launch platforms for space launch vehicles or “sub-
orbital craft”;

(h) “Sub-orbital craft”;

- (527) Schedule 1, Dual-use Goods List, Category 9, 9A008(b)—

Repeal

“structural efficiency ratios (PV/W)”

Substitute

“structural efficiency ratios (PV/W)”.

- (528) Schedule 1, Dual-use Goods List, Category 9, 9A008(b)
Technical Note—

Repeal

“structural efficiency ratio (PV/W)”

Substitute

“structural efficiency ratio (PV/W)”.

- (529) Schedule 1, Dual-use Goods List, Category 9, 9A010(d)—

Repeal

“response time (the time required to achieve 90% of total
rated thrust from start-up)”

Section 3

Substitute

“response time”.

- (530) Schedule 1, Dual-use Goods List, Category 9, after 9A010(d)—

Add

“*Technical Note:*

For the purposes of 9A010(d), ‘response time’ is the time required to achieve 90% of total rated thrust from start-up.”.

- (531) Schedule 1, Dual-use Goods List, Category 9, 9A011—

Repeal

“combined cycle engines”

Substitute

“combined cycle engines”.

- (532) Schedule 1, Dual-use Goods List, Category 9, after 9A011—

Add

“*Technical Notes:*

For the purposes of 9A011, ‘combined cycle engines’ combine two or more of the following types of engines:

- (1) Gas turbine engine (turbojet, turboprop and turbofan);
- (2) Ramjet or scramjet;
- (3) Rocket motor or engine (liquid/gel/solid-propellant and hybrid);”.

- (533) Schedule 1, Dual-use Goods List, Category 9, 9A012—

Repeal

“systems.”.

Section 3

- (534) Schedule 1, Dual-use Goods List, Category 9, 9A012—
Repeal the Nota Bene
Substitute
“*N.B.*:
1. See also 9A112.
2. For “UAVs” that are “sub-orbital craft”, see 9A004(h).”.
- (535) Schedule 1, Dual-use Goods List, Category 9, 9A101(a)(1)—
Repeal
“(achieved un-installed)”.
- (536) Schedule 1, Dual-use Goods List, Category 9, 9A101(a)(1)—
Repeal
“(achieved uninstalled)”.
- (537) Schedule 1, Dual-use Goods List, Category 9—
Repeal 9A101(a)(2)
Substitute
“(2) Specific fuel consumption of 0.15 kg N⁻¹ hr⁻¹ or less;”.
- (538) Schedule 1, English text, Dual-use Goods List, Category 9, 9A101(a), Technical Note 1—
Repeal
“uninstalled”
Substitute
“un-installed”.

Section 3

- (539) Schedule 1, Dual-use Goods List, Category 9, 9A101(a), Technical Note 1, after “less than the manufacturer’s demonstrated maximum thrust for the engine type”—

Add

“un-installed”.

- (540) Schedule 1, Dual-use Goods List, Category 9, 9A101(a), after Technical Note 3—

Add

“4. Specific fuel consumption is determined at maximum continuous thrust for engine type un-installed at sea level static conditions using the ICAO standard atmosphere.”.

- (541) Schedule 1, Dual-use Goods List, Category 9, 9A102—

Repeal

““unmanned aerial vehicles””

Substitute

“unmanned aerial vehicles”.

- (542) Schedule 1, English text, Dual-use Goods List, Category 9, 9A102, Technical Note 2—

Repeal

“uninstalled”

Substitute

“un-installed”.

- (543) Schedule 1, Dual-use Goods List, Category 9, 9A105(b)—

Repeal

““unmanned aerial vehicles””

Substitute

“unmanned aerial vehicles”.

Section 3

- (544) Schedule 1, Dual-use Goods List, Category 9—
Repeal 9A106(b).
- (545) Schedule 1, Dual-use Goods List, Category 9, 9A107—
Repeal
“engines”
Substitute
“motors”.
- (546) Schedule 1, Dual-use Goods List, Category 9, 9A107—
Repeal
“ 8.41×10^5 Ns”
Substitute
“0.841 MNs”.
- (547) Schedule 1, Dual-use Goods List, Category 9, 9A108—
Repeal
“solid rocket propulsion systems:”
Substitute
“solid and hybrid rocket propulsion systems:”.
- (548) Schedule 1, Dual-use Goods List, Category 9, 9A108(a)
and (b)—
Repeal
“9A007 or 9A107”
Substitute
“9A007, 9A009, 9A107 or 9A109(a)”.
- (549) Schedule 1, Dual-use Goods List, Category 9, 9A109(a)—
Repeal
““unmanned aerial vehicles””

Section 3

Substitute

“unmanned aerial vehicles”.

- (550) Schedule 1, Dual-use Goods List, Category 9, 9A110,
Technical Note—

Repeal

““unmanned aerial vehicle””

Substitute

“unmanned aerial vehicle”.

- (551) Schedule 1, Dual-use Goods List, Category 9, 9A111—

Repeal everything before the Nota Bene

Substitute

“9A111 Pulse jet or detonation engines, usable in
“missiles” or unmanned aerial vehicles
specified in 9A012 or 9A112(a), and specially
designed components for the pulse jet or
detonation engines;”.

- (552) Schedule 1, Dual-use Goods List, Category 9, 9A111,
after the Nota Bene—

Add

“Technical Note:

In 9A111, detonation engines utilise detonation to
produce a rise in effective pressure across the combustion
chamber. Examples of detonation engines include pulse
detonation engines, rotating detonation engines or
continuous wave detonation engines.”.

- (553) Schedule 1, Dual-use Goods List, Category 9, 9A112,
Technical Note 2—

Repeal

Section 3

“The dispersion may be effected by aerosol injection into the combustion exhaust vapour and the propeller slip stream.”

Substitute

“This includes the possibility of aerosol injection into the combustion exhaust vapour and into the propeller slip stream.”.

- (554) Schedule 1, Dual-use Goods List, Category 9, 9A118, after “combustion”—

Add a comma.

- (555) Schedule 1, Dual-use Goods List, Category 9, 9A119—

Repeal

““unmanned aerial vehicles””

Substitute

“unmanned aerial vehicles”.

- (556) Schedule 1, Dual-use Goods List, Category 9, 9A120—

Repeal

“gel propellants’, used”

Substitute

“gel propellants’ used”.

- (557) Schedule 1, Dual-use Goods List, Category 9, 9A350—

Repeal

Section 3

““unmanned aerial vehicles” controlled by 9A012, and specially designed components therefor”

Substitute

“unmanned aerial vehicles, and specially designed components for the spraying or fogging systems”.

- (558) Schedule 1, Dual-use Goods List, Category 9, 9A350, Technical Note 1—

Repeal

““unmanned aerial vehicles” controlled by 9A012”

Substitute

“unmanned aerial vehicles”.

- (559) Schedule 1, Dual-use Goods List, Category 9, 9B001—

Repeal everything before the Nota Bene

Substitute

“9B001 Manufacturing equipment, tooling or fixtures, as follows:”.

- (560) Schedule 1, Dual-use Goods List, Category 9, 9B001(a), after “equipment”—

Add

“designed for “superalloys””.

- (561) Schedule 1, Dual-use Goods List, Category 9, 9B001(b), after “tooling,”—

Add

“specially designed for manufacturing gas turbine engine blades, vanes or “tip shrouds”,”.

- (562) Schedule 1, Dual-use Goods List, Category 9, 9B001(c), after “equipment”—

Add

Section 3

“designed for “superalloys””.

- (563) Schedule 1, English text, Dual-use Goods List, Category 9, 9B004—

Repeal

“airfoil-to-disk”

Substitute

“aerofoil-to-disk”.

- (564) Schedule 1, Dual-use Goods List, Category 9, 9B005(a)—

Repeal everything before the Technical Note

Substitute

- “(a) Wind tunnels designed for speeds of Mach 1.2 or more;

Note:

9B005(a) does not control wind tunnels specially designed for educational purposes and having a ‘test section size’ (measured laterally) of less than 250 mm.”.

- (565) Schedule 1, Dual-use Goods List, Category 9, 9B005(a), Technical Note—

Repeal

“Test section size”

Substitute

““Test section size””.

- (566) Schedule 1, Dual-use Goods List, Category 9, 9B106(a)—

Repeal

“capable of simulating the following flight conditions”

Substitute

“having all of the following”.

Section 3

- (567) Schedule 1, Dual-use Goods List, Category 9, 9B106(a)(1)—

Repeal

“Having any of the following:”

Substitute

“Capable of simulating any of the following flight conditions:”.

- (568) Schedule 1, Dual-use Goods List, Category 9, 9B117—

Repeal

“Test benches and test stands”

Substitute

“Test benches or test stands,”.

- (569) Schedule 1, Dual-use Goods List, Category 9, 9D001—

Repeal

“9A012, 9A101, 9A102, 9A104 to 9A112, 9A115 to”.

- (570) Schedule 1, Dual-use Goods List, Category 9, 9D002—

Repeal

“9A012, 9A101, 9A102, 9A104 to 9A112, 9A115 to”.

- (571) Schedule 1, Dual-use Goods List, Category 9, after 9D005—

Add

“*N.B.*:

For “software” for items specified in 9A004(d) that are incorporated into “spacecraft payloads”, see the appropriate Categories for those items.”.

- (572) Schedule 1, Dual-use Goods List, Category 9, 9D103—

Repeal

Section 3

“9A004 or sounding rockets specified in 9A104, or the subsystems or “missiles” specified in 9A005, 9A007, 9A105, 9A106(c), 9A107, 9A108(c), 9A116 or 9A119, as appropriate;”

Substitute

“9A004, sounding rockets specified in 9A104, “missiles” or the subsystems specified in 9A005, 9A007, 9A105, 9A106(c), 9A107, 9A108(c), 9A116 or 9A119;”.

- (573) Schedule 1, Dual-use Goods List, Category 9, 9D105—

Repeal

everything before “in space”

Substitute

“9D105 “Software” specially designed or modified to coordinate the function of more than one subsystem, other than that specified in 9D004(e),”.

- (574) Schedule 1, Dual-use Goods List, Category 9, after 9E003(a)(2)(d)—

Add

- “(e) Utilising ‘pressure gain combustion’;

Technical Note:

In ‘pressure gain combustion’, the bulk average stagnation pressure at the combustor outlet is greater than the bulk average stagnation pressure at the combustor inlet due primarily to the combustion process, when the engine is running in a “steady state mode” of operation.”.

- (575) Schedule 1, Dual-use Goods List, Category 9, 9E003(a)(3), after “Components that are”—

Add

Section 3

“any of the following:”.

- (576) Schedule 1, Dual-use Goods List, Category 9, 9E003(a)(3)(b)(2)—

Repeal

“or”.

- (577) Schedule 1, English text, Dual-use Goods List, Category 9, 9E003(a)(6)—

Repeal

“Airfoil-to-disk”

Substitute

“Aerofoil-to-disk”.

- (578) Schedule 1, Dual-use Goods List, Category 9—

Repeal 9E003(a)(7).

- (579) Schedule 1, Dual-use Goods List, Category 9—

Repeal 9E003(a)(11)

Substitute

“(11) ‘Fan blades’ having all of the following:

- (a) 20% or more of the total volume being one or more closed cavities containing vacuum or gas only;
- (b) One or more closed cavities having a volume of 5 cm³ or larger;

Technical Note:

For the purposes of 9E003(a)(11), a ‘fan blade’ is the aerofoil portion of the rotating stage or stages, which provide both compressor and bypass flow in a gas turbine engine.”.

- (580) Schedule 1, Dual-use Goods List, Category 9, 9E003(c)—

Repeal Technical Note 4

Substitute

“4. Methods for manufacturing holes in 9E003(c) include “laser” beam machining, water jet machining, Electro-Chemical Machining (ECM) or Electrical Discharge Machining (EDM).”.

- (581) Schedule 1, Dual-use Goods List, Category 9, 9E003(e)(1) and (3)—

Repeal

“box volume”

Substitute

““box volume””.

- (582) Schedule 1, Dual-use Goods List, Category 9, 9E003(e), Technical Note—

Repeal

“Box volume”

Substitute

““Box volume””.

- (583) Schedule 1, Dual-use Goods List, Category 9, 9E003(g)—

Repeal

“high output diesel engines”

Substitute

““high output diesel engines””.

- (584) Schedule 1, Dual-use Goods List, Category 9, 9E003(g), Technical Note—

Repeal

“High output diesel engines”

Substitute

“High output diesel engines”.

- (585) Schedule 1, Dual-use Goods List, Category 9, 9E003(h), Note—

Repeal

“aircraft”

Substitute

““aircraft””.

- (586) Schedule 1, Dual-use Goods List, Category 9, 9E003(j)—

Repeal

“aircraft”

Substitute

““aircraft””.

- (587) Schedule 1, Dual-use Goods List, Category 9, 9E003(j)—

Repeal the Nota Bene

Substitute

“*N.B.* :

For “technology” “required” for the “development” of wing-folding systems designed for fixed-wing “aircraft” specified in ML10, see ML22.”.

- (588) Schedule 1, Definitions of terms, definition of *Accuracy*—

Repeal

“2 6 “Accuracy” (精度)”

Substitute

“2 3 6 “Accuracy” (精度)”.

7 8

- (589) Schedule 1, Definitions of terms, definition of *Aircraft*—

Repeal

Section 3

“1 7 9 “Aircraft” (飛機)”

ML8

ML10

ML14

Substitute

“1 6 7 9 “Aircraft” (飛機)”.

ML1

ML8

ML10

ML14

Def.

- (590) Schedule 1, Definitions of terms, definition of *Basic scientific research*—

Repeal

“GTN “Basic scientific research” (基本科學研究)”

NTN

Substitute

“GTN “Basic scientific research” (基本科學研究)”.

NTN

ML22

- (591) Schedule 1, English text, Definitions of terms, definition of *Compensation systems*, after “reduction of”—

Add

“the”.

- (592) Schedule 1, Definitions of terms, definition of *Cryptography*—

Repeal

Section 3

“5 “Cryptography” (密碼學)”

Substitute

“5 “Cryptography” (密碼學)”.

Def.

- (593) Schedule 1, Definitions of terms, definition of *Cryptography*—

Renumber the Note as Note 1.

- (594) Schedule 1, Definitions of terms, definition of *Cryptography*, after Note 1—

Add

“2. “Cryptography” includes decryption.”.

- (595) Schedule 1, Definitions of terms, definition of *Diffusion bonding*—

Repeal

“1 2 9 “Diffusion bonding” (擴散接合)”

Substitute

“1 2 “Diffusion bonding” (擴散接合)”.

- (596) Schedule 1, Definitions of terms, definition of *Digital computer*—

Repeal

“4 5 “Digital computer” (數字式電腦)”

Substitute

“4 5 “Digital computer” (數字式電腦)”.

ML21

- (597) Schedule 1, Definitions of terms, definition of *Energetic materials*—

Repeal

“ML8 “Energetic materials” (高能物料)”

Substitute

“1 “Energetic materials” (高能物料)”.

ML8

(598) Schedule 1, Definitions of terms, definition of *Explosives*—

Repeal

“1 “Explosives” (炸藥)”

ML8

Substitute

“1 “Explosives” (炸藥)”.

ML8

ML18

Def.

(599) Schedule 1, Definitions of terms, definition of *Fibrous or filamentary materials*—

Repeal

“0 1 8 9 “Fibrous or filamentary materials” (纖維或絲狀物料)”

Substitute

“0 1 2 8 9 “Fibrous or filamentary materials” (纖維或絲狀物料)”.

ML13

(600) Schedule 1, Definitions of terms, definition of *Hybrid integrated circuit*—

Repeal

“3 “Hybrid integrated circuit” (混合集成電路)”

Substitute

Section 3

“3 “Hybrid integrated circuit” (混合集成電路)”.

Def.

- (601) Schedule 1, English text, Definitions of terms, definition of *Hybrid integrated circuit*, after “having all”—

Add

“of”.

- (602) Schedule 1, Definitions of terms, definition of *In the public domain*—

Repeal

“GTN “In the public domain” (在公共領域內)”

GSN

Substitute

“GTN “In the public domain” (在公共領域內)”.

NTN

GSN

ML22

- (603) Schedule 1, Definitions of terms, definition of *Intrusion software*—

Repeal

“4 “Intrusion software” (入侵軟件)”

Substitute

“4 5 “Intrusion software” (入侵軟件)”.

- (604) Schedule 1, Definitions of terms, definition of *Laser*—

Repeal

“0 2 3 5 “Laser” (雷射器)”

6 7 8 9

ML9

Section 3

ML19

Substitute

“0 1 2 3 5 “Laser” (雷射器)”.

6 7 9

ML9

ML17

ML19

Def.

- (605) Schedule 1, Definitions of terms, definition of *Local area network*—

Repeal

“4 5 “Local area network” (區域網絡)”

Substitute

“4 5 “Local area network” (區域網絡)”.

Def.

- (606) Schedule 1, Chinese text, Definitions of terms, definition of *區域網絡*, paragraph (b)—

Repeal

“地區”

Substitute

“地理範圍”.

- (607) Schedule 1, Definitions of terms, definition of *Participating State*—

Repeal

“0 7 9 “Participating State” (參與國)”

ML4

ML10

Substitute

“0 7 9 “Participating State” (參與國)”.

ML1

ML4

ML10

ML101

Def.

- (608) Schedule 1, Definitions of terms, definition of *Personal area network*, paragraph (b)—

Repeal

“vicinity of an individual person or device controller (e.g. single room, office, or automobile, and their nearby surrounding spaces).”

Substitute

“physical vicinity of an individual person or device controller (e.g. single room, office, or automobile).”.

- (609) Schedule 1, English text, Definitions of terms, definition of *Personal area network*—

Repeal

“*Technical Note*”

Substitute

“*Technical Notes*”.

- (610) Schedule 1, Definitions of terms, definition of *Personal area network*—

ReNUMBER the Technical Note as Technical Note 1.

- (611) Schedule 1, Definitions of terms, definition of *Personal area network*, after Technical Note 1—

Add

“2. The “local area network” extends beyond the geographical area of the “personal area network”.”.

(612) Schedule 1, Definitions of terms, definition of *Propellants*—

Repeal

“ML8 “Propellants” (推進劑)”

Substitute

“ML8 “Propellants” (推進劑)”.

ML18

Def.

(613) Schedule 1, Definitions of terms, definition of *Required*—

Repeal

“GTN “Required” (所需)”

5 6 7 9

ML22

Substitute

“GTN “Required” (所需)”.

3 5 6 7 9

ML22

(614) Schedule 1, Definitions of terms, definition of *Riot control agents*—

Repeal

“ML7 “Riot control agents” (暴動控制劑)”

Substitute

“1 “Riot control agents” (暴動控制劑)”.

ML7

Section 3

- (615) Schedule 1, English text, Definitions of terms, definition of *Robot*, after “has all”—

Add

“of”.

- (616) Schedule 1, English text, Definitions of terms, definition of *Robot*—

Repeal

““user-accessible programmability””

Substitute

““user accessible programmability””.

- (617) Schedule 1, Definitions of terms, definition of *Satellite navigation system*—

Repeal

“5 “Satellite navigation system” (衛星導航系統)”

ML11

Substitute

“5 “Satellite navigation system” (衛星導航系統)”.

7

ML11

- (618) Schedule 1, Definitions of terms, definition of *Superalloys*—

Repeal

“having strengths superior to any alloys in the American Iron and Steel Society (AISI) 300 series at temperatures over 922 K (649°C) under severe environmental and operating conditions.”

Substitute

“having a stress rupture life greater than 1 000 hours at 400 MPa and an ultimate tensile strength greater than 850 MPa, at 922 K (649°C) or higher.”.

- (619) Schedule 1, English text, Definitions of terms, definition of *User-accessible programmability*—

Repeal

“User-accessible”

Substitute

“User accessible”.

- (620) Schedule 1, Definitions of terms—

- (a) definition of *Circle of equal probability*;
- (b) definition of *Deactivated firearm*;
- (c) definition of *Direct-acting hydraulic pressing*;
- (d) definition of *Electronically steerable phased array antenna*;
- (e) definition of *Frequency mask trigger*;
- (f) definition of *Instrumented range*;
- (g) definition of *Main storage*;
- (h) definition of *Real time bandwidth*;
- (i) definition of *Resolution*;
- (j) definition of *Variable geometry airfoils*—

Repeal the definitions.

- (621) Schedule 1, Definitions of terms—

Add in alphabetical order

“1 “Chemical mixture” (化學品混合物)

A solid, liquid or gaseous product made up of two or more components which do not react together under the conditions under which the mixture is stored.

- 7 “Circular Error Probable” (“CEP”) (圓形機率誤差)
In a circular normal distribution, the radius of the circle containing 50% of the individual measurements being made, or the radius of the circle within which there is a 50% probability of being located.
- 4 “Cyber incident response” (網絡事故回應)
ML21 The process of exchanging necessary information on a cybersecurity incident with individuals or organizations responsible for conducting or coordinating remediation to address the cybersecurity incident.
- 7 “Drift rate” (gyro) (漂移率) (陀螺儀)
The component of gyro output that is functionally independent of input rotation. It is expressed as an angular rate.
- 1 “Equivalent standards” (同等標準)
ML6 Comparable national or international
ML13 standards recognized by one or more “Participating States” and applicable to the relevant entry.
- 3 “Gate-All-Around Field-Effect Transistor” (“GAAFET”) (全環柵晶體管)

Section 3

A device having a single or multiple semiconductor conduction channel element(s) with a common gate structure that surrounds and controls current in all of the semiconductor conduction channel elements.

Note:

This definition includes nanosheet or nanowire field-effect and surrounding gate transistors and other “GAAFET” semiconductor channel element structures.

- 5 “Hard selectors” (硬選擇器)
Data or set of data, related to an individual (e.g. family name, given name, e-mail address, street address, phone number or group affiliations).
- 9 “Sub-orbital craft” (次軌道太空船)
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.
- 4 “Vulnerability disclosure” (漏洞披露)

ML21 The process of identifying, reporting or communicating a vulnerability to, or analysing a vulnerability with, individuals or organizations responsible for conducting or coordinating remediation for the purpose of resolving the vulnerability.”.

4. Schedule 2 amended

(1) Schedule 2, heading—

Repeal the heading

Substitute

“Schedule 2

[reg. 2]”.

(2) Schedule 2, paragraph 1(a)—

Repeal

“ML7 and ML8”

Substitute

“ML7, ML8, ML9, ML10 and ML101”.

Maggie WONG Siu-chu
Director-General of Trade and
Industry

12 May 2023

Explanatory Note

This Order amends Schedules 1 and 2 to the Import and Export (Strategic Commodities) Regulations (Cap. 60 sub. leg. G) to reflect the latest changes in the control lists of strategic commodities adopted by various international non-proliferation regimes, and to implement the requirements imposed by the Arms Trade Treaty regarding the transfers of conventional arms, their ammunitions/munitions as well as parts and components. The Order also makes minor textual amendments to those Schedules.