(Acts adopted pursuant to Title V of the Treaty on European Union)

Index of goods listed in Annex I to Council Decision 1999/193/CFSP of 9 March 1999 amending Decision 94/942/CFSP on the joint action adopted by the Council on the basis of Article J.3 of the Treaty on European Union concerning the control of exports of dual-use goods [1]

(1999/C 230/01)

[1] OJ L 73, 19.3.1999, p. 1.

(*NB*: This index is not an exhaustive list of controlled goods, some may not be described here).

Description of controlled goods	Entry
Ablative liners for thrust/combustion chambers	9A106a
Absolute reflectance measurement equipment	6B004a
Absorbers of electromagnetic waves	1C001
Absorbers, hair type	1C001a
Absorbers, non-planar & planar	1C001a
Absorption columns	2B350e
Accelerators (electro-magnetic radiation)	3A101b
Accelerators or coprocessors, graphics	4A003d
Accelerometer axis align stations	7B003
Accelerometers & accelerometer components	7A001 7A101
Acoustic-optic signal procesing devices	3A001c.3
Acoustic beam forming software	6D003a.1
Acoustic hydrophone arrays, towed	6A001a.2.b
Acoustic location & object detection systems	6A001a.1.b
Acoustic mounts, noise reduction equipment for vessels	8A002o.3.a
Acoustic positioning systems	6A001a.1.d
Acoustic projectors	6A001a.1.c
Acoustic systems, marine	6A001a
Acoustic transducers, hydrophones	6A001a.2.a
Acoustic underwater communications systems	5A001b.1.a
Acoustic vibration test equipment	9B006
Acoustic wave devices	3A001c

Description of controlled goods	Entry
Active acoustic systems	6A001a.1
Active compensating system rotor clearance control software	9D004d
Active flight control system software	7D003e
Active flight control system technology	7E004b
Active magnetic bearing systems	2A001c
Actively cooled mirrors	6A005e.1
Adaptive control software	2D002
ADCs (analogue-to-digital converters)	3A101a 3A001a.5
ADC (analogue-to-digital converters) electronic assemblies	4A003e
Aero gas turbine engine/assemblies/component test software	9D004b
Aero gas turbine engines	9A001
Aerodynamic isotope separation plant/element housings	0B001a.3
Aerodynamic separation process systems & components	0B001d
Aerosol challenge testing chambers	2B352g
Aflatoxins	1C351d.11
African swine fever virus (animal pathogens)	1C352a.1
Agitators (chemical manufacturing)	2B350b
AHRS (attitude heading reference systems), source code	7D002
Air independent power systems (for underwater use)	8A002j
Air traffic control software	6D003d.1
Airborne altimeters	7A006
Airborne altimeters, radar or laser types	7A106
Aircraft inertial navigation systems & equipment	7A003 7A103
Alexandrite laser host material	6C005b
Alexandrite lasers	6A005c.1
Align & expose step & repeat equipment (wafer processing)	3B001f.1
Alkylphenylene ethers or thio-ethers, as lubricating fluids	1C006b
Alloy strips, magnetic	1C003c
Alloyed metal materials in powder or particulate form	1C002b 1C002c 1C202
Alloys, aluminium	1C202a 1C002a.2.d
Alloys, magnesium	1C002a.2.e

Description of controlled goods	Entry
Alloys, metal powder	1C002b
Alloys, nickel	1C002a.2.a 1C002a.1.a 1C002a.1
Alloys, niobium	1C002a.2.b
Alloys, titanium	1C202b 1C002a.1.b
Alpha-emitting radionuclides	1C236
Alimeters, airborne	7A006 7A106
Aluminides, nickel	1C002a.1.a
Aluminides, titanium	1C002a.1.b
Aluminium alloy powder	1C002b.1.d 1C002c
Aluminium alloys	1C202 1C002a.1 1C002a.2.d
Aluminium organo-metallic compounds	3C003a
Aluminium powder, spherical	1C111a.1
Amalgam electrolysis cells, lithium isotope separation	1B233
Amalgam pumps, lithium	1B233.b.2
Amiton: 0, 0-Diethyl S-[2–(diethylamino)ethyl]phosphorothiolate	1C450a.1
Ammonia-hydrogen exchange plant, equipment and components	0B004a.2
Ammonia crackers (operating pressure over 3 MPa)	0B004b.5
Ammonia distillation towers	0B004b
Ammonia synthesis converters & units	1B227
Ammonium bifluoride — see ammonium hydrogen fluoride	
Ammonium hydrogen fluoride	1C350.42
Amorphous alloy strips	1C003c
Amplifiers, microwave solid state	3A001b.4
Anaerobic chambers	2B352f
Analogue-to-digital conversion equipment	4A003e
Analogue-to digital converters, integrated circuits	3A101a 3A001a.5
Analogue computers for space launch vehicles and sounding rockets	4A101
Analogue instrumentation tape recorders	3A002a.1
Analysers, network	3A002e
Analysers, spectrum	3A002c.1

Description of controlled goods	Entry
Anechoic chambers	9B106b
Angular-linear inspection equipment (hemishells)	2B206b
Angular measuring instruments	2B206a 2B006b.2
Animal pathogens	1C352
Antennae, phased array	5A001d 6A008e
Anti-vibration mounts (noise reduction), civil vessels	8A002o.3.a
Antimony hydrides	3C004
Aramid fibres & filamentary materials	1C010a 1C210a
Arc remelt & casting furnaces	2B227a
Argon ion lasers	6A205a 6A005a.6
Armour body	1A005
Aromatic polyamide-imides	1C008a.2
Aromatic polyamide fibres production technology	1E002d
Aromatic polyetherimides	1C008a.4
Aromatic polyimides	1C008a.3
Array processor microcircuits	3A001a.3
Array processors/assemblies	4A003 4A004
Arsenic hydrides	3C004
Arsenic trichloride	1C350.31
Artificial Intelligence software	4D003b
Atomic clocks, frequency standards	3A002g
Atomic transition solid state lasers	6A005c.2
Atomic vapour laser isotope separation plant (ALVIS)	0B001g
Atomic vapour laser isotope separation process equipment	0B001g
Attitude control equipment	7A116b
Attitude heading reference systems (AHRS), source software	7D002
Aujeszky's disease virus (Porcine herpes virus)	1C352a.6
Autoclave regulation technology	1E103
Autoclaves, gaseous diffusion or centrifuge cascade	0B002a
Automated control systems, submersible vehicles	8A002b
Avian influenza virus	1C352a.2

Description of controlled goods	Entry
Avionics EMP/EMI protection technology	7E102
Bacillus anthracis	1C351c.1
Bacteria	1C351c 1C352b 1C353 1C354a
Balancing machines, centrifugal multiplane	2B229
Ball & solid roller bearings	2A001a. 2A001b
Band-pass filters, tunable	3A001b.5
Band-stop filters, tunable	3A001b.5
Barium metal vapour lasers	6A005a.2.d
Batch mixers with vacuum & temperature control	1B115
Bathymetric survey systems	6A001a.1.a
Batteries/cells (high energy)	3A001e.1.a 3A001e.1.b
Bay cable systems	6A001a.2.e
Bay cable systems software	6D003a.3
Beam steering mirrors	6A004a.4
Beamforming techniques, towed hydrophones	6A001a.2.c.
Bearings, ball & solid roller	2A001a 2A001b
Bearings, gas centrifuge	0B001b.7 0B001b.8
Bearings, high precision	2A001 2A001c 0B001b.7
Bearings, solid roller	2A001b
Bellows-forming dies	2B228c
Bellows-forming mandrels	2B228c
Bellows pumps	2B350i
Bellows seal valves	0B001c.6 2B350g 0B001d.6 2A226
Benzilic acid	1C350.32
Beryllium metal or alloy powder	1C230 1C111a.2
Beryllium/beryllium substrate blanks	6C004d

Description of controlled goods	Entry
Biological containment facilities, ACDP level 3 or 4	2B252a
Biological isolators	2B352f
Biological manufacturing equipment & facilities	2B352
Biological safety cabinets	2B352f
Bioreactors	2B352b
Bismaleimides	1C008a.1
Bismuth	1C229
Bladders for aircraft/aerospace/missiles, fuel	1A001a
Blanks, beryllium/beryllium (Be/Be) deposited material	6C004d
Blanks, zinc selenide (ZnSe) substrate	6C004a
Blanks, zinc sulphide (ZnS) substrate	6C004a
Blowers, axial flow/centrifugal/positive displacement/turbo	0B001c.3 0B001d.3
Bluetongue virus	1C352a.3
Body armour	1A005
Boring machines (CNC)	2B001 2B201
Boron & boron compounds	1C225
Boron carbide powder (fuel)	1C011b
Boron metal or alloy powder	1C011b 1C111a.2
Bottom cable systems	6A001a.2.e
Bottom cable systems software	6D003a.3
Botulinum toxin	1C351d.1
Boules of electro-optic materials	6C004b
Brayton cycle engine, air independent	8A002j.1
Brucella abortus	1C351c.2
Brucella melitensis	1C351c.3
Brucella suis	1C351c.4
Bulk acoustic wave devices	3A001c.2
BZ: 3-Quinuclidinyl benzilate	1C450a.3
Cable — optical fibre & accessories for underwater use	5A001c.2
Cable, underwater communication	5A001c.2
Cables with surreptitious intrusion detection	5A002a.7

Description of controlled goods	Entry
Cables, optical fibre	5A001c.1
CAD (computer-aided-design) software for semiconductors	3D003
Cadmium telluride (CdTe) single crystals/epitaxial wafers	6C002b
Cadmium zinc telluride single crystals & epitaxial wafers	6C002b
Calcium	1C227
Calcium fluoride (CaF_2) made/coated crucibles	2A225a.1
Calcium zirconate (metazirconate) $CaZrO_3$) crucibles	2A225a.2
Cameras and components	6A003
Cameras and components	6A203
Cameras, electronic framing type	6A203b.3 6A003a.4
Cameras, electronic streak type	6A203b.1 6A003a.3
Cameras, framing	6A003a.3 6A203a.1
Cameras, imaging	6A003b 6A203c
Cameras, mechanical	6A003a 6A203a
Cameras, radiation hardened TV	6A203c
Cameras, scanning & scanning camera systems	6A003b.2
Cameras, underwater photographic, still	8A002e
Cameras, video using solid state sensors	6A003b.1
Canned drive pumps	2B350i
Capacitors	3A201a 3A001e.2
Carbon-carbon materials	1A102
Carbon dioxide (CO_2) lasers	6A005a.4 6A205d
Carbon fibre & filamentary materials	1C010b 1C210a
Carbon monoxide (CO) lasers	6A005a.3
Carbon or alumina fibre conversion equipment	1B001d 1B101d
Carbon-carbon exit cones	9A006h
Carbon-carbon thrust chambers	9A006h
Carbonyl dichloride: Phosgene	1C450a.4
Carboxy-terminated polybutadiene (CTPB)	1C111b.1

Description of controlled goods	Entry
Casting and remelt arc furnaces	2B227a
Catalysts, platinised	1A225
Catalytic burners, deuterium conversion to heavy water	0B004b.7
Cathodes (impregnated) for electronic microwave tubes	3A001b.1.c
Cathodic arc deposition production equipment	2B005f
Cells or batteries (high energy), primary	3A001e.1.a 3A001e.1.b
Cellular radio systems development technology	5E001b.3
Centrifugal blowers or compressors for hydrogen sulphide circulation	0B004b.2
Centrifugal decanters	2B352c
Centrifugal fixtures for gyro bearings	7B003
Centrifugal isotope separation equipment & components	0B001b 0B001a.1 0B002
Centrifugal multiplane balancing machine, use software	2D201
Centrifugal multiplane balancing machines for flexible rotors	2B229a
Centrifugal pumps	2B350i
Centrifugal separators	2B352c
Centrifuge housing to contain rotor tube assembley	0B001b.11
Centrifuge rotor assembly equipment	2B228a
Centrifuge rotor balancing equipment	2B229
Centrifuges, gas	0B001b.1
Ceramic-matrix composite materials	1C007c
Ceramic-matrix non-composite materials, Ti borides	1C007b
Ceramic base materials development/production technology	1E002c.1
Ceramic base materials, single or complex borides of Ti	1C007a
Ceramic composite materials, useable for radomes or nose tips	1C107b
Ceramic core manufacturing equipment	9B001c
Ceramic cores for blades & vanes	9B001c
Ceramic materials & composites	1C007
Ceramic shell manufacturing equipment	9B001c
Ceramic shell wax pattern preparation equipment	9B001d
Ceramic shells for blades & vanes	9B001b
Ceramic-ceramic composite materials	1C007f
Cerium sulphide (Ce_2S_3) made/coated crucibles	2A225a.3

Description of controlled goods	Entry
Certification software for information security software	5D002c.2
Chambers, aerosol challenge testing (capacity of 1 m^3 or more)	2B352g
Changers, frequency (converters or inverters)	0B001b.13 3A225
Chemical exchange isotope separation process plant, components	0B001e 0B001a.4
Chemical incinerators	2B350j
Chemical lasers	6A005a.5
Chemical manufacturing equipment	2B350
Chemical manufacturing facilities	2B350
Chemical storage tanks & containers	2B350c
Chemical vapour deposition (CVD) equipment	3B001d 2B005a 1B001d.2
Chemical warfare (CW) precursors	1C350
Chemicals, precursors for toxic chemical agents	1C350
Chemostats for biological processing	2B352b
Chikungunya virus (human pathogen)	1C351a.1
Chlamydia psittaci	1C351c.5
Chlorine trifluoride (ClF_3)	1C238
2-Chloroethanol	1C350.15
Chlorofluorocarbon compound soils as hydraulic fluids	1C006a.2
Chloropicrin: Trichloronitromethane	1C450a.7
Cinema recording cameras	6A003a.1
Cladding test/inspection equipment, for reactor fuel elements	0B005
Climatic chambers	9B106
Closed-cycle refrigeration systems	9A006b
Closed circuit diving apparatus	8A002q
Clostridium botulinum	1C351c.6
Clostridium perfringens toxins	1C351d.2
Clothing & materials, bullet-resistant	1A005
CNTD (controlled nucleation thermal decomposition) equipment	2B005a.1.b
Coating & processing equipment, for non-electronic substrates	2B005
Coating application technology, for non-electronic substrates	2E003f
Coatings for reduced electromagnetic visibility	1C101

Description of controlled goods	Entry
Cochliobolus mivabeanus (Helminthosporium oryzae)	1C354b.2
Cold-cathode tubes	3A228a
Cold traps for UF_6	0B001d.7.d
Cold traps/desublimers for UF_6 removal	0B002b
Colletotrichum coffeanum var. virulans, fungi	1C354b.1
Colour centre lasers	6A005c.1
Columbium (Niobium) alloys	1C002a.2.b
Column, absorption or distillation	2B350e
Column, liquid-liquid exchange, for lithium amalgams	1B233.b.1
Combined cycle engines/components	9A011
Combustion regulation devices, jet engines	9A118
Communications cable systems, secure	5A002a.7
Communications systems (underwater)	5A001b.1
Compasses (gyro-astro) & devices	7A004 7A104
Compilers (software) for multi-datastream processing equipment	4D003a
Composite components/structures for spacecraft & space launch vehicles	9A010
Composite conductors, superconductive	1C005
Components materials software	1D002
Composite materials, ceramic	1C007f
Composite structures for propulsion systems or space vehicles	9A110
Composite structures, as tubes	1A202
Composites structures, laminates or tubes	1A002
Composite temperature/pressure/atmosphere regulation technology	1E103
Composite/laminate manufacturers for rockets	9A110
Compound semiconductor integrated circuits, industrial	3A001a.11
Compound semiconductor photocathodes	6A002a.2.b.3
Compressors for hydrogen sulphide circulation	0B004b.2
Compressors	1B232
Compressors, UF_6	0B001d.3 0B001c.3 0B001h.3
Computer-aided-design (CAD) software for ICS & semiconductors	3D003
Computer control and monitoring systems, furnaces	2B227c

Description of controlled goods	Entry
Computer interconnect equipment	4A003g
Computer, electronic assemblies & equipment & components	4A001–4 4A101
Computer, electronic components, hybrid	4A102
Computer/assemblies/components, neural	4A004b
Computer assemblies/components, optical	4A004c
Computers/assemblies/components, systolic array	4A004a
Computers, analogue & analogue ruggedised	4A101
Computers, digital	4A001 4A003 4A004 4A101
Computers, having information security characteristics	4A001b
Computers, hybrid for space launch vehicles and sounding rockets	4A102
Computers, radiation hardened	4A001 4A001a.2
Computers, with extended operating temperature range	4A001a.1
Condensers or heat exchangers	0A001i 2B350d 0B001d.4 0B001c.5
Conductive polymers	1C001
Congo-Crimean haemorrhagic fever virus	1C351a.2
Conotoxin	1C351d.3
Contactors, chemical exchange (ammonia-hydrogen)	0B004b.4
Contactors, liquid-liquid centrifugal	0B001e.2
Containment facilities	2B352a
Continous-flow systems for biological processing	2B352b
Continuous mixers with vacuum & temperature control facility	1B115
Contrarotating propellers	8A002o.1.b
Control apparatus and devices for rocket launchers	9A115a
Control rods, for nucelar reactors	0A001d
Control units for metallurgical melting & casting furnaces	2B227
Controllable-pitch propellers	8A002o.2.a
Controlled atmosphere melting & casting furnaces	2B227
Controlled environment (vacuum or inert gas) induction furnaces	2B226
Controlled nucleation thermal decomposition (CNTD) equipment	2B005a.1.b
Controllers for high explosive handling robots	2B207a

Description of controlled goods	Entry
Controllers, machine tool (CNC)-software	2D002
Controllers, robot	2B007
Converter integrated circuits	3A001a.5
Converter interfaces for digital video magnetic tape recorders	3A002a.4
Converters, frequency	0B001b.13 3A225
Converters, microwave frequency extender	3A001b.7
Cooling equipment for molten uranium	0B001g.2
Cooling fluids — electronic	1C006d
Copper metal vapour lasers	6A005a.2.a
Coprocessor microcircuits	3A001a.3 4A003d
Correlation-velocity sonar log equipment	6A001b
Counter-current solvent extractors	0B006
Coxiella burnetii	1C351b.1
Critically safe tanks, nuclear fuel reprocessing	0B006
Cross-flow filtration equipment	2B352d
Crossed-field amplifier tubes	3A001b.1.b
Crucibles, liquid actinide resistant	2A225
Crucibles, resistant to molten uranium	0B001i.4 0B001g2
Crucibles, tantalum	2A225b,c
Cryocoolers for optical sensors, non-space qualified	6A002d.2
Cryocoolers for optical sensors, space qualified	6A002d.1
Cryogenic containers	9A006b
Cryogenic distillation columns	1B228
Cryogenic heat exchangers for UF_6/Carrier gas separation	0B001d.7.a
Cryogenic heat pipes	9A006a
Cryogenic refrigeration units	0B001d.7.b
Cryogenic refrigerators	9A006a
Cryoseparators	0B001d.7.a
Cryptanalytic equipment or devices, digital	5A002a.2
Cryptography equipment or devices, digital	5A002a.1
CTPB (Carboxy-terminated polybutadiene)	1C111b.1

Description of controlled goods	Entry
Cultures of bacteria	1C351c 1C352b 1C353 1C354a
Cultures of fungi	1C353 1C354b
Cultures of rickettsiae	1C351b 1C353
Cultures of viruses	1C351a 1C352a
Custom integrated circuits, industrial	3A001a.10
Cutting machines, gears	2B003
CVD (chemical vapour deposition) equipment	1B101d.2 2B005a 3B001d 1B001d.2
CVD (chemical vapour deposition) furnaces	2B104
CW (chemical warfare) precursors	1C350
Cyanogen chloride	1C450a.5
Cylinder wall lubrication technology, diesel engines	9E003e.2
DACs (digital-to-analogue converters)	3A001a.5
Damping, flotation or lubricating fluids	1C006
Data acquisition equipment for wind tunnels, automatic	9B005
Data acquisition systems for gas turbine development	9B002
Decanters, centrifugal	2B352c
Deep-hole drilling machines	2B001f
Deformable mirrors	6A004a.1
DEGDN (diethylene glycol dinitrate)	1C111c.5
Dengue fever virus	1C351a.3
Depleted uranium	0C001
Depth sounders	6A001a.1
Design integration of guidance sets, software	7D103
Desublimers for UF_6 removal	0B002b
Detection and protection equipment (software)	1A004
Detection or location systems (acoustic)	6A001a.1.b
Detectors, optical	6A002a
Detectors, radiation hardened for missile use	6A102

Description of controlled goods	Entry
Detectors, space-qualified solid state optical	6A002a.1
Detonator firing sets	3A229a
Detonators, exploding bridge (EB)	3A232a.1
Detonators, exploding bridge wire (EBW)	3A232a.2
Detonators, exploding foil initiators (EB)	3A232a.4
Detonators, slapper (electric)	3A232a.3
Deuterated compounds, (e.g. deuterated paraffins)	0C003
Deuterium & deuterium compounds as mixtures & solutions	0C003
Deuterium fluoride-carbon dioxide (DF-CO_2lasers)	6A005a.5.c.2
Deuterium fluoride (DF) lasers	6A005a.5.b.
Deuterium/deuterium compound production plant, equipment & components	0B004
Di-isopropylamine	1C350.48
Diagnostic instruments or target technology for SHPL	6E003b
Dialkyl [methyl, ethyl or propyl (normal or iso)] N, N-dialkyl-[methyl, ethyl or propyl (normal or iso)]-phosphoramidates	1C450b.3
Diamond film substrate development/production technology	3E002d
Diaphragm pumps	2B350i
Diaphragm valves	2B350g
Diaphragms, made from fluorinated compounds	1A001a
Dibromotetrafluoroethane based damping or flotation fluids	1C006c.1
Dies, bellows-forming	2B228c
Diesel cycle engine, air independent	8A002j.2
Diethyl-N, N-dimethylphosphoramidate	1C350.18
Diethyl ethylphosphonate	1C350.17
Diethyl methylphosphonite	1C350.3
Diethyl phosphite	1C350.19
Diethylaminoethanol	1C350.49
Diethylene glycol dinitrate (DEGDN)	1C111c.5
Diffusion bonding technology	2E003b.1.b 2E003b.2.b
Diffusion bonding tools, dies, moulds or fixtures	1B003
Digital-to-analogue converter integrated circuits (DACs)	3A001a.5
Digital array processors	3A001a.3
Digital computer electronic assemblies, parallel processing	4A003c

Description of controlled goods	Entry
Digital computer systems	4A003b 4A004 4A003
Digital computers, electronic assemblies & related equipment	4A001 4A003
Digital computers, fault tolerant	4A003a
Digital computers, logic processors	4A003
Digital computers, ruggedised	4A101
Digital computers, signal processing	4A003
Digital computers, vector processors	4A003
Digital controllers for vibration test systems	2B116b
Digital coprocessors	3A001a.3
Digital differential analysers, ruggedised	4A101
Digital electronic engine control software	9D003a
Digital instrumentation tape data recorders	3A002a.3
Digital signal processors	3A001a.3 4A003
Digital video magnetic tape recorders	3A002a.2
Digitally controlled radio receivers	5A001b.4
Digitisers, waveform	3A002a.5
N, N-Diisopropyl-(beta)-aminoethyl chloride hydrochloride	1C350.54
N, N-Diisopropyl-(beta)-amino ethanol	1C350.27
N. N-Diisopropyl-(beta)-aminoethane thiol	1C350.12
N, N-Diisopropyl-(beta)-aminoethyl chloride	1C350.1
Dimensional inspection equipment/systems	2B006a
Dimensional inspection machines	2B206a 2B006b
Dimethyl ethylphosphonate	1C350.17
Dimethyl methylphosphonate	1C350.3
Dimethyl phosphite	1C350.6
Dimethylamine	1C350.16
Dimethylamine hydrochloride	1C350.20
Dinitrogen pentoxide	1C111a.3.c
Dinitrogen tetroxide (nitrogen dioxide)	1C111a.3.b
Dinitrogen trioxide	1C111a.3.a
Direct-acting hydraulic pressing technology for metal working	2E003b.2.c

Description of controlled goods	Entry
Direct view imaging equipment	6A002c
Direction finding systems, equipment & components	7A007 7A103
Directional solidification casting control software	9D004c
Directional solidification casting equipment	9B001a
Dissolvers, for nuclear fuel	0B006
Distillation columns	2B350e 1B228
Distillation towers	0B004b.3 1A226
Diving apparatus, articles & components	8A002q
Doppler laser interferometers (DLIs)	6A225
Double seal pumps	2B350i
Double seal valves	2B350g
Drilling machines, deep-hole	2B001f
Dry boxes capable of use with biological agents	2B352f
Dry etching equipment, anisotropic plasma	3B001c
Dye lasers	6A005d 6A205b/c
Dynamic adaptive routing software	5D001c.3
Dynamic signal analysers	3A002c.2
Dynamic wavefront (phase) measuring equipment	6A005f.1
Eastern equine encephalitis virus	1C351a.4
EB-PVD (electron beam physical vapour deposition) equipment	2B005c
Ebola virus	1C351a.5
EDMs, non wire feed types	2B001d
EEPROMs (electrical erasable programmable read-only memories)	3A001a.4
Electric detonators, explosive	3A232a
Electric propulsion engines	8A002o.2.b
Electrical discharge machines, non-wire feed CNC	2B001d
Electrical erasable programmable read-only memories	3A001a.4
Electrically driven explosive detonators	3A232a
Electro-optic materials	6C004
Electro-optical integrated circuits	3A001a.6

Description of controlled goods	Entry
Electrochemical reduction cells	0B001e.4 0B001e.3
Electrolysis cells, amalgam lithium isotope separation	1B233.b.3
Electrolytic cells, fluorine production	1B225
Electromagnetic amplifiers, superconductive devices	3A001d.1
Electromagnetic energy storage, superconductive devices	3A001e.3
Electromagnetic interference (EMI) protection technology, avionics	7E102
Electromagnetic isotope separation equipment & components	0B001j 0B001a.9
Electromagnetic isotope separators	1B226
Electromagnetic pulse (EMP) protection technology, avionics	7E102
Electromagnetic pulse (EMP) protection, detectors for missile use	6A102
Electromagnetic radiation sensors, optical fibre	6A002d.3.a
Electromagnetic signature reduction material & devices	1C101
Electromagnetic underwater communications systems	5A001b.1.b
Electromagnets, superconductive	3A001e.3 3A201b
Electron beam cutting machines (CNC)	2B001e.1.b
Electron beam equipment for mask making/semiconductor devices	3B001f
Electron beam guns, high power	0B001g.1
Electron beam melting furnaces	2B227b
Electron beam physical vapour deposition (EB-PVD) equipment	2B005c
Electron beam sensitive resist materials	3C002b
Electron beam systems, for probing semiconductor devices	3B002d
Electron bombardment mass spectrometers	3A233d
Electron cyclotron resonance (ECR) CVD equipment	3B001d
Electron cyclotron resonance (ECR) plasma dry etching equipment	3B001c
Electronic assemblies	4A003
Electronic cameras	6A003a.5
Electronic components	3A001
Electronic components	3A101 3A201
Electronic computers & related equipment	4A101 4A001-4
Electronic cooling fluids	1C006d
Electronic devices, switching	3A228

Description of controlled goods	Entry
Electronic equipment for reentry vehicles	9A116d
Electronic framing cameras	6A203b.3
Electronic streak cameras & streak tubes	6A003a.3 6A203b.2
Electronic vacuum tubes, microwave/millimetre wave devices	3A001b.1
Electronic valves, industrial vacuum	3A228
Electronically steerable antennae, phased array	5A001d
EMP/EMI protection technology, avionic systems	7E102
Encoders, rotary input shaft type	3A001f
Encrypted GPS (global positioning system) equipment & components	7A005a
Encryption equipment, assemblies & components	5A002
Encryption software	5D002
End effectors, robot	2B007 2B207
Energy storage capacitors (high capacity)	3A001e.2
Energy storage, superconductive devices	3A001e.3
Enriched uranium or materials containing it	0C002
Environmental chambers, capable of simulating flight conditions	9B106a
Epitaxial growth equipment	3B001a
Epitaxial wafers, cadmium telluride (CdTe)	6C002b
Erbium oxide (erbia) Er_2O_3 made/coated crucibles	2A225a.4
Ethers (alkylphenylene) in the form of a lubricating fluid	1C006b.1
Ethyl phosphonyl dichloride	1C350.21
Ethyl phosphinyl difluoride	1C350.35
Ethyl phosphinyl dichloride	1C350.22
Ethyl phosphonyl difluoride	1C350.23
Ethyldiethanolamine	1C450b.7
Evaporators for concentrated lithium hydroxide solution	1B233.b.4
Exchange columns, liquid-liquid for lithium amalgams	1B233.b.1
Excimer lasers	6A005a.1
Exit cones, liquid rocket propulsion	9A006h
Expander cycle turbine drive systems	9A006d
Expert systems — integration systems technology	2E003e
Expert systems software	4D003b

Description of controlled goods	Entry
Exploding bridge (EB) detonators	3A232a.1
Exploding bridge wire (EBW) detonators	3A232a.2
Exploding foil initiators (EFI)	3A232a.4
Explosive detonators, industrial electric	3A232a
Explosive, high (industrial)	1C239
Explosive/munitions environment handling robots	2B007b
Extended temperature range semiconductor components	3A001a.2
FADEC (full authority digital electronic engine control software)	9D003
Fast-exchange liquid-liquid centrifugal contactors	0B001e.2
Fast-exchange liquid-liquid pulse columns	0B001e.1
Fast fourier transform (FFT) processors	3A001a.12
Fast fourier transform processors, acoustic signal processing	6A001a.2.c
Fast switching function modules or assemblies	3A228c
Fault tolerance FADEC software	9D003b
Fault tolerant digital computers	4A003a
Feed preparation systems for uranium chloride production	0B001e.5
Fermenters, biological processing	2B352b
Fibre and filamentary material	1C010 1C210
Fibre optic cable	5A001c.1
Fibre optic hull penetrators/connectors	8A002c
Fibre optic magnetometers	6A006c 6A006e
Fibre surface treatment equipment	1B101d
Fibrous or filamentary material production	1B001 1B101
Fibrous or filamentary materials	1C010d 1C210
Field programmable gate arrays (FPGA)	3A001a.7
Field programmable logic arrays (FPLA)	3A001a.8
Filament-wound composite motor cases	9A008b
Filament winding machine software	1D001 1D101 1D201
Filament winding machines	1B001a 1B101a 1B201

Description of controlled goods	Entry
Filamentary materials, carbon	1C010b
Filling equipment, remotely controlled	2B350f
Film type integrated circuits, industrial	3A001a
Filters, tunable band-pass	3A001b.5
Fingers, for surface effect vessels	8A002k
Finishing machines, gear	2B003
Firing sets	3A229a
Fissile materials or material containing them	0C002
Flash discharge X-ray generators	3A201c
Flexible isolators capable of use with biological agents	2B352f
Flexible nozzles, solid rocket motor	9A108c
Flexible nozzles, thrust vector control sub-system	9A106c
Flexible sensors for hydrophones	6A001a.2.a.1
Flight control actuator technology	7E004a.5
Flight control system development technology	7E004
Flight control systems	7A116
Flight control systems-software	7D003e
Flight instrument systems, integrated	7A103
Flight management system integration technology	7E104
Flightweight dewars	9A006a
Flow-forming machines	2B009 2B109 2B209
Flow forming spin forming equipment, software	2D101 2D201
Fluid or secondary gas injection thrust systems	9A106d 9A108c
Fluorinated compounds	1C009 1A001
Fluorinated phosphazene elastomers	1C009c
Fluorinated polyimides	1C009b
Fluorinated silicone fluid	1C006b.2
Fluorinating equipment, UF_5 to UF_6	0B001h.4
Fluorine production (electrolysis cells)	1B225
Fluorelastomer compounds, technology	1E002b
Fluorphosphate glass	6C004e

Description of controlled goods	Entry
Fluorocarbon electronic cooling fluids	1C006d
Fluxgate magnetometer technology	6E003c
Fly-by-wire control system technology	7E004b
Fly-by-wire systems	7A116a
Flight-by-light flight control systems software	7D003e
Foam mirror structures, lightweight	6A004a.3
Foam, syntactic for underwater use	8C001
Focal plane arrays	6A002c.2 6A002a.3
Foot & mouth disease virus	1C352a.4
FPGAs (field programme gate arrays)	3A001a.7
FPLAs (field programmable logic arrays)	3A001a.8
Framing cameras, electronic type	6A203b.3 6A003a.4
Framing cameras, mechanical	6A203a.1
Framing tubes & solid state imaging devices	6A203b.4
Francisella tularensis	1C351c.7
Freeze drying equipment, steam sterilisable	2B352e
Frequency agile (frequency hopping) radio equipment	5A001b.3
Frequency agile systems	5A002a.5
Frequency agile tubes	3A001b.1
Frequency agility development technology	5E001b.4
Frequency analysers (signal analysers)	3A002c.1
Frequency changers (converters or inverters)	0B001b.13 3A225
Frequency extenders, mixers/converters	3A001b.7
Frequency standards, atomic	3A002g
Frequency synthesised signal generators	3A002d
Frequency synthesiser, electronic assemblies	3A002b
Fuel cell air independent power systems	8A002j.3
Fuel element chopping or shredding machines	0B006
Fuel element fabrication plant, for nuclear reactors	0B005
Fuel element handling equipment for nuclear reactors	0A001c
Fuels, metal powder	1C111a
Full authority digital electronic engine control software	9D003

Description of controlled goods	Entry
Functional testing equipment, for integrated circuits	3B002b
Fungi, plant pathogens	1C354b
Furnaces	2B226 2B227 2B104
Fused silica, low optical absorption types	6C004e
GaAs photocathodes	6A002a.2.b.2
GaAs semiconductor integrated circuits, industrial	3A001a.11
GaInAs photocathodes	6A002a.2.b.2
Gallium III/V compound substrates, hetero-epitaxial grown multi-layer	3C001c
Gallium organo-metallic compounds	3C003a
Gas blowers (positive displacement/centrifugal/axial flow)	0B001d.3 0B001c.3
Gas centrifuge isotope separation equipment & components	0B001b
Gas centrifuge isotope separation plant	0B001a.1
Gas centrifuge plant auxiliary equipment	0B002
Gas centrifuge rotor assembly equipment	2B228a
Gas centrifuge rotor balancing equipment	2B229
Gas centrifuges	0B001b.1
Gas generator turbine drive system	9A006d
Gas krytron tubes	3A228a
Gas lasers	6A005a 6A005a.7
Gas monitoring systems, toxic	2B351
Gas turbine (aero engine) test software	9D004b
Gas turbine aeroengines, civil non-certified/supersonic	9A001
Gas turbine blade ntechnology	9E003a
Gas turbine blade, manufacturing or measuring equipment	9B001
Gas turbine brush seal production/test equipment	9B003
Gas turbine components, solid state joining equipment	9B004
Gas turbine development control systems or instrumentation	9B002
Gas turbine engine development systems/instrumentation	9B002
Gas turbine engine propulsion systems & assemblies/components	9A003
Gas turbine engine technology	9E003

Description of controlled goods	Entry
Gas turbine engines & assemblies/components, marine	9A002
Gas turbine test/flow modelling software	9D004a
Gaseous diffusion barriers, UF_6	0B001c.1
Gaseous diffusion housings, UF_6	0B001c.2
Gaseous diffusion isotope separation equipment & components	0B001c 0B001a.2
Gaseous diffusion plant auxiliary equipment	0B002
Gaskets	1A001a&c
Gate arrays, field programmable (FPGA)	3A001a.7
Gate silicon intensifier target (SIT) videcon tubes	6A203b.4.b
GDMS (glow discharge mass spectrometers)	3A233b
Gear cutting machines	2B003
Gear finishing machines	2B003
Gear grinding machines	2B003
Gear honing machines	2B003
Generation of machine tool instruction-technology	2E003d
Generator systems, neutron	3A231
Generators, high-current pulse for detonators	3A229
Generators, high-speed pulse	3A230
Genetically-modified microorganisms	1C353
Germanium, hetero-epitaxial grown multi-layer substrates	3C001b
Gimbals, optical control	6A004d.3
Glass fibre or filamentary materials	1C210b
Glass fibre, for optical communications	5A001c.1
Glass matrix reinforced composite materials	1C007f
Glass windows, nuclear radiation shielding	1A227
Glass, high homogeneity	6C004e
Global positioning system (GPS) equipment & components	7A005
Glove boxes capable of use with biological agents	2B352f
Glow discharge mass spectrometers (GDMS)	3A233b
Goat pox virus	1C352a.5
Gold (Au) metal vapour lasers	6A005a.2.b
GPS (global positioning system) equipment/components	7A005
GPS equipment	7A105

Description of controlled goods	Entry
Gradiometers & components	6A107 6A006 6A007c
Graphics accelerators or graphics coprocessors	4A003d
Graphite heat exchangers	2B350d
Graphite, bulk	1C107a
Graphite, fine grain recrystallised high density	1C107a
Graphite, nuclear-grade	0C004
Gravimeters (gravity meters)	6A107 6A007a 6A007b
Gravity gradiometer software	6D003c
Gravity gradiometers	6A007c 6A107
Gravity meter (gravimeters) production & calibration equipment	6B007
Gravity meters (gravimeters) & components	6A107 6A007a 6A007b
Gravity meters (gravimeters) software	6D003c
Grinding machines	2B001c 2B201b 2B003
Ground support launch vehicles	9A115b
Guanidine nitrate	1C011c
Guidance set, production facilities	7B103
Guidance sets	7A117
Gyro dynamic balance stations	7B003
Gyro evacuation/fill stations	7B003
Gyro run-in/motor test stations	7B003
Gyro tuning test stations	7B003
Gyro-astro compasses & devices	7A004 7A104
Gyros & gyro components	7A002 7A102
Gyroscope production/manufacturing/test equipment	7B003
Hafnium fluoride (HfF_4) glass	6C004e
Hafnium metal, alloys & compounds	1C231

Description of controlled goods	Entry
Hafnium oxide (hafnia) (HfO_2) made/coated crucibles	2A225a.5
Hair type absorbers	1C001a
Handling equipment for propellants and their constituents	1B115
Handling equipment for rocket launchers	9A115a
Handling systems, semiconductor wafers	3B001e
Hantaan virus	1C351a.6
Heading sensors, towed hydrophones	6A001a.2.b.4
Heat exchangers & condensers	0A001i 0B001d.4 0B001c.5 2B350d
Heat pipe cooled mirrors	6A005e.1
Heat shields/components, reentry vehicle	9A116b
Heat sinks/components, reentry vehicle	9A116c
Heat source materials, nuclear	1C012
Heavy water (deuterium oxide)	0C003
Heavy water concentration equipment	0B004b.8
Heavy water production plant, equipment & components	0B004
Helicopter power transfer system technology	9E003d
Helicopter system development technology	7E004c
Helium refrigeration units	1B231
Helium, enriched	1C232
Helminthosporium oryzae (Cochliobolus miyabeanus)	1C354b.2
Hetero-epitaxial grown multi-layer substrates	3C001
Hetero-structure semiconductor technology	3E002b
High-speed cameras	6A003a 6A203a
High-speed pulse generators	3A230
High-velocity gas gun systems	2B232
High energy photvoltaic arrays	3A001e.1.c
High energy storage capacitors	3A001e.2 3A201a
High power electron beam guns	0B001g.1
High pressure nozzles	9A006e
High pressure thrust chambers	9A006e
High pressure turbo pumps, pump components	9A006d

Description of controlled goods	Entry
High voltage power supplies for ion sources	0B001j.5
HIPS (hot isostatic presses)	2B004 2B104 2B204
Holding or storage vessels, critically safe	0B006
Hollow cylinder centrifugal balancing machines	2B229b
Honing machines, gear	2B003
Hopping code generation capability, equipment with	5A002a.5
Hot cell manipulators	2B225
Hot isostatic densification technology/data, Al/Ti/Superalloys	2E003b.2.d
Hot isostatic press, use software	2D201
Hot isostatic presses (HIPS)	2B004 2B104 2B204
Hovercraft	8A001f/g
HTPB (hydroxy-terminated polybutadiene) propellant additive	1C111b.2
Hull penetrators/connectors, fibre optic	8A002c
Human pathogens	1C351a-c
Hybrid computer electronic systems/electronic assemblies	4A002
Hybrid computers & components	4A002 4A102 4A002a
Hybrid integrated circuits	3A001a
Hybrid rocket motors/propulsion systems	9A009 9A109
Hydraulic fluids, pressure transmission	1C006a
Hydraulic pressing technology (metal working)	2E003b
Hydraulic stretch-forming machines technology	2E003c
Hydrides of antimony, arsenic & phosphorus	3C004
Hydrocarbon oils, synthetic	1C006
Hydroclave regulation technology	1E103
Hydrofoil vessels	8A001h
Hydrofoils	8A002m
Hydrogen cyanide	1C450a.6
Hydrogen fluoride	1C350.24
Hydrogen fluoride (HF) lasers	6A005a.5.a
Hydrogen isotope storage & purification systems	1B231

Description of controlled goods	Entry
Hydrogen refrigeration units	1B231
Hydrogen sulphide-water exchange plant, equipment & components	0B004a.1 1B229
Hydrophone arrays, towed acoustic	6A001a.2.b
Hydrophones	6A001a.2.a
Hydroxy-1–methylpiperidine 3–Hydroxy-1–methylpiperidine	1C350.10
Hydroxy-terminated polybutadiene (HTPB)	1C111b.2
ICP/MS (inductively coupled plasma mass spectrometers)	3A233a
III/V compound substrates, gallium or indium	3C001c
Image enhancement, digital equipment	4A003
Image intensifier tubes & components	6A002a.2 6A002c.1
Imaging cameras	6A003b
Imaging cameras incorporating focal plane arrays	6A003b.4
Imaging cameras incorporating image intensifier tubes	6A003b.3
Imaging cameras, radiation hardened	6A203c
Imaging devices	6A002 6A203b.4
Imaging equipment, visible & infrared	6A002c
Imaging sensors, multispectral and monospectral	6A002b
Imaging systems, underwater electronic	8A002f
Impregnated cathodes for electronic microwave tubes	3A001b.1.c
Incinerators designed to destroy the chemicals of 1C350	2B350j
Independent (air) power systems underwater	8A002j
Indium III/V compounds substrates	3C001c
Indium organo-metallic compounds	3C003a
Induction coil magnetometers	6A006b
Induction furnace, controlled environment inert gas	2B226
Induction furnace, vacuum	2B226
Inductively coupled plasma mass spectrometers (ICP/MS)	3A233a
Inert gas environment induction furnaces	2B226
Inertial navigation system software	7D002 7D102
Inertial navigation; systems/equipment/components	7A003 7A103

Description of controlled goods	Entry
Inertial sensors, optical fibre	6A002d.3
Information security software	5D002
Information security systems/equipment/devices	5A002
Information security technology	5E002
Information security technology support software	5D002b
Infrared absorption analysers, on line	0B004b.6
Infrared detectors, industrial space qualified	6A002a.1 6A002a.4
Initiation systems, single or multipoint (electric)	3A232b
Initiators, explosive detonators (electric)	3A232a
Inorganic fibres & filamentary materials	1C010c 1C210b
Inorganic overlay coating application technology	2E003f
Instruction generators for machine tools-technology	2E003d
Instrumentation cameras	6A003a
Instrumentation cameras	6A203a
Instrumentation for gas turbine development	9B002
Instrumentation for wind tunnels	9B005
Instrumentation systems, inertial navigation	7A003
Insulation bonding/liner system components, rocket motor	9A008a
Insulation, rocket motor case	9A108a
Integrated circuit computer-aided design (CAD) software	3D003
Integrated circuit test equipment	3B002b 3B002c
Integrated circuit, masks	3B001g
Integrated circuits, general purpose	3A001a 3A001b.2
Integrated flight instrument systems/components	7A103
Integrated system source code, avionic/mission systems	7D003c
Integration software for expert systems	2E003e
Integration technology for flight management systems	7E104
Interconnect equipment (computer)	4A003g
Interferometers, velocity (VISARs)	6A225
Interior linings, rocket motor case	9A108a
Interlacing machines	1B001c

Description of controlled goods	Entry
Internals, reactor components, nuclear	0A001h
Interstages for missiles	9A117
Intrinsic magnetic gradiometers	6A006f
Inverse synthetic aperture radar (ISAR)	6A008d
Inverters (frequency changers or converters)	0B001b.13 3A225
Ion-exchange columns	0B001f.2
Ion-exchange isotope separation plant	0B001a.5
Ion-exchange processing	0B006
Ion-exchange reflux systems	0B001f.3
Ion-exchange resins, fast acting	0B001f.1
Ion-exchange separation process equipment & components	0B001f
Ion beam equipment for mask making/semiconductor devices	3B001f.2
Ion beam sensitive resist materials	3C002b
Ion collector plates, Uranium fluoride resistant	0B001j.2
Ion implantation equipment	3B001b
Ion implantation production equipment	2B005b
Ion plating production equipment	2B005g
Ion sources, electron bombardment mass spectrometers	3A233d
Ion sources, glow discharge mass spectrometers (GDMS)	3A233b
Ion sources, ICP/MS mass spectrometers	3A233a
Ion sources, mass spectrometers (UF_6 enrichment plant)	0B002g
Ion sources, molecular beam mass spectrometers	3A233e
Ion sources, thermal ionisation mass spectrometers (TIMS)	3A233c
Isolators capable of use with biological agents	2B352f
Isostatic press, software for use of	2D201
Isostatic presses, hot	2B004 2B104 2B204
Isotope separation plant, systems, equipment & components	0B001
Isotope separators, electromagnetic	0B001a.9 1B226
Japanese encephalitis virus	1C351a.20
Jet engine combustion regulation devices	9A118

Description of controlled goods	Entry
Jet engines/components, pulse	9A111
Jet probes, thrust vector control sub-system	9A106c 9A108c
Jet vane, thrust vector control sub-systems	9A106c 9A108c
Josephson effect devices	6A006h
Joule-Thomson self-regulating minicoolers	6A002d.2.b
Junin virus	1C351a.7
Kerr or Pockel cells, electro-optical shuttering	6A203b.4.c
Krypton ion lasers	6A005a.6
Krytron tubes, gas	3A228a
Laminates & composite structures, organic or carbon	1A002
Laminates, rockets/propulsion systems/space vehicles	9A110
Land-based gravity meters production equipment	6B007
Land inertial navigation equipment	7A003
Laser alimeters	7A106
Laser based linear position feedback units	2B008a
Laser based measuring instruments	2B006b.1.c
Laser beam cutting machines (CNC)	2B001e.1.c
Laser beam equipment for mask making/semiconductor devices	3B001f.2
Laser beam systems, for probing semiconductor devices	3B002d
Laser communication technique technology	5E001b.2
Laser diagnostic equipment	6A005f.2
Laser gyro mirror characterisation equipment	7B102
Laser isotope plant, systems, equipment & components	0B001a 0B001g 0B001h
Laser radar or light detection & ranging (LIDAR) equipment	6A008j
Laser radar systems for space launch vehicles	6A108a
Laser ring gyro test equipment	7B002
Laser ring gyros & gyro components	7A002
Lasers	6A005 6A205
Lasers or laser systems, uranium isotope separation	0B001g.5 0B001h.6

Description of controlled goods	Entry
Lassa fever virus	1C351a.8
Lathes (CNC)	2B001a
Launch apparatus or devices, missile	9A115a
Launch ground support vehicles	9A115b
Launch vehicle components/structures	9A010
Lenses for radiation hardened TV cameras	6A203c
Lidar equipment (laser radar)	6A008j
Lift fans, for surface effect vessels	8A0021
Light-weight reduction gearing, marine transmissions	8A002o.1.d
Light gas guns (multistage) systems	2B232
Light systems, underwater	8A002g 8A002d.2
Lightweight composite or foam mirror structures	6A004a.3
Lightweight monolithic mirrors	6A004a.2
Lightweight turbofan/turbojet engines	9A101
Linear focal plane arrays	6A002a.3
Linear measuring equipment/instruments	2B006b.1
Linear position feedback units or sensors	2B008a
Linear voltage displacement transformer (LVDT) based instruments	2B006b.1.b.1
Liquid-liquid exchange columns, for lithium amalgams	1B233.b.1
Liquid lasers	6A005d
Liquid or water jet cutting machines (CNC)	2B001e.1
Liquid oxidisers, various nitrous oxides	1C111a.3
Liquid propellant control systems	9A106d
Liquid propellant injectors	9A006g
Liquid propellant rocket engines	9A005 9A105
Liquid rocket propulsion systems	9A105 9A119 9A005 9A006 9A010 9A106
Liquid uranium handling systems (cooled crucibles)	0B001i.4
Lithium amalgam electrolysis cells	1B233.b.3
Lithium amalgam processing equipment	1B233a
Lithium amalgam pumps	1B233.b.2

Description of controlled goods	Entry
Lithium hydroxide solution, evaporators for	1B233.b.4
Lithium isotope separation facilities, plant and equipment	1B233a
Lithium metal, hydrides or alloys	1C233
Lithography equipment, mask making for semiconductor wafer-processing	3B001f
Live cultures, isolated	1C351 1C352 1C354 1C353
Location & object detection systems, acoustic	6A001a.1.b
Logic arrays, field programmable (FPLA)	3A001a.8
Logic processors and assemblies	4A003
Lubricating materials	1C006b
LVDT (linear voltage displacement transformer) based instruments	2B006b.1.b.1
Lymphocytic choriomeningitis virus	1C351a.9
Lyssa virus	1C352a.8
Machine tool assemblies for equipment of 2B006 & 2B007	2B008
Machine tool components for equipment of 2B006 & 2B007	2B008
Machine tool feedback units	2B008
Machine tool instruction generators-technology	2E003d
Machine tool spindles	2B008c
Machine tools for grinding (CNC)	2B001c 2B003 2B201b
Machine tools, E-beam	2B001e.1.b
Machine tools, laser	2B001e.1.c
Machine tools, numerically controlled	2B001 2B201
Machine tools, water/other liquid jet	2B001e.1.a
Machines for milling (CNC)	2B001 2B001b 2B201a 2B001a
Machupo virus	1C351a.10
Magnesium alloy powders	1C002b.1.e
Magnesium metal alloys	1C002a.2.e
Magnesium metal, alloys & powders	1C011a 1C228 1C111a.2

Description of controlled goods	Entry
Magnesium oxide (MgO) made or coated crucibles	2A225a.6
Magnet power supplies, high power (direct current)	0B001j.6
Magnetic alloy strips	1C003c
Magnetic anomaly detection software	6D003b.2
Magnetic bearings (suspension)	0B001b.7 2A001c
Magnetic compensation systems for magnetic sensors	6A006g
Magnetic compensation systems software	6D003b.1
Magnetic confinement CVD equipment	3B001d.1
Magnetic confinement plasma dry etching equipment	3B001c.1.a
Magnetic drive pumps	2B350i
Magnetic gradiometers	6A006d 6A006f
Magnetic metals	1C003
Magnetic pole pieces	0B001j.4
Magnetic sensor, magnetic compensation systems	6A006g
Magnetometer systems	6A006
Magnetometers	6A006 6A006a 6A006c
Magnetostrictive alloys	1C003b
Mandrels for rotor assembly, bellows forming	2B228a
Mandrels, bellows-forming	2B228c
Maganin gauges, pressure	6A226a
Manifolds, vacuum	0B002f.1
Manipulators	2B225 8A002i
Manned, tethered submersible vehicles	8A001a
Manned, untethered submersible vehicles	8A001b
Manufacturing equipment for semiconductor materials	3B001
Maraging steel	1C116 1C216
Marburg virus	1C351a.11
Marine acoustic systems	6A001a
Marine gas turbine engines	9A002
Masks, integrated circuits	3B001g

Description of controlled goods	Entry
Mass spectrometers & ion sources	3A233 0B002g
Materials development, production & use software	1D001
Materials for reduced electromagnetic reflectivity	1C101
Materials processing equipment, use technology	2E101 2E201 2E301
MCT (HgCdTe) crystals & epitaxial wafers	6C002b
Measurement equipment, underwater velocity	6A001b
Measuring instruments or systems	2B006
Mechanical cameras, framing	6A003a.1–3
Melting furnaces	2B227b
Memory integrated circuits	3A001a.4
Mercury amalgam pumps	1B233.b.2
Mercury cadmium telluride crystals & epitaxial wafers	6C002b
Metal-organic compounds, aluminium/gallium/indium	3C003a
Metal & metal alloy powder production equipment	1B002
Metall alloy powders	1C002b 1C111a 1C011a
Metal alloys	1C002a 1C004 1C116 1C117 1C202 1C216 1C230 1C231 1C233 1C234
Metal alloys in powder or particulate form	1C002c
Metal alloys, magnetic	1C003
Metal alloys, powders (fuel)	1C111a.2
Metal alloys, tungsten	1C226
Metal coated fibre preforms	9A110
Metal organic chemical vapour deposition (MOCVD) reactors	3B001a.2
Metal particulate material, magnesium or zirconium	1C011a
Metal powder fuels	1C111a 1C011
Metal powder production equipment	1B002
Metal vapour lasers	6A005a.2

Description of controlled goods	Entry
Metal working process tools, die & fixture technology	2E003b.1
Metallurgical melting & casting furnace, software for	2D201
Metallurgical melting & casting furnaces	2B227
Metals with high initial relative (magnetic) permeability	1C003a
Methyl benzilate	1C350.25
Methyl phosphinyl dichloride	1C350.26
Methyl phosphinyl difluoride	1C350.36
Methyl phosphonyl dichloride	1C350.5
Methyldiethanolamine	1C450b.8
Microchannel plates, image intensifier tubes	6A002a.2.a.2
Microcircuits, silicon/compound semiconductor	3A001a
Microcomputer microcircuits	3A001a.3
Microcontroller microcircuits	3A001a.3
Microcyclus ulei (syn. Dothidella ulei)	1C354b.3
Microcystins (Cyanginosins)	1C351d.10
Microfluorination ion sources	3A233f
Microorganisms, genetically modified	1C353
Microprocessor microcircuits	3A001a.3
Microwave amplifiers, solid state	3A001b.4
Microwave assemblies	3A001b.6
Microwave devices	3A001b.1
Microwave frequency extenders, mixers/converters	3A001b.7
Microwave integrated circuit test equipment	3B002c
Microwave integrated circuits	3A001b.2
Microwave modules	3A001b.2
Microwave power sources (frequency above 30 Ghz) for accelerating ions	0B001i.1
Microwave test receivers	3A002f
Microwave transistors	3A001b.3
Microwave devices	3A001b.1
Milling machines, (CNC) with two or more coordinated axes	2B001b
Mirror assemblies/segments, space assembly	6A004c.3
Mirror characterisation equipment, reflectometers	7B102
Mirror control equipment, phased array/segment	6A004d.4

Description of controlled goods	Entry
Mirror positioning gimbals	6A004d.3
Mirror structures, lightweight foam or composite type	6A004a.3
Mirrors, actively cooled or heat pipe cooled	6A005e.1
Mirrors, beam steering	6A004a.4
Mirrors, optical	6A004a
Mirrors, partially transmissive	6A005e.2
Missile (usable) guidance sets	7A117
Missile telemetry, remote control	5A101
Mixers, batch & continous	1B115
Mixers, microwave frequency extenders	3A001b.7
Modelling/simulation of guidance sets, software	7D103
Modules, microwave	3A001b.2
Modules/assemblies, fast switching function	3A228c
Molecular beam epitaxial growth equipment using gas sources	3B001a.3
Molecular beam mass spectrometers	3A233e
Molecular laser isotopic separation plant	0B001a.7
Molecular laser separation process equipment & components	0B001h
Molecular pumps	0B001b.9
Molybdenum & tungsten metals alloys	1C117
Monitoring systems, toxic gas	2B351
Monkey pox virus	1C351a.12
Monolithic integrated circuits, industrial	3A001a
Monospectral imaging sensors	6A002b
Motor stators	0B001b.10
Movable nozzle control systems, rocket, solid	9A008d
Multi-chamber central wafer handling systems	3B001e
Multi-element detector arrays	6A002a.3
Multi-element photodiodes & phototransistors	6A002a.3
Multi-layer hetero-epitaxial material substrates & wafers	3C001
Multi-layer masks (with phase shift layer), for integrated circuits	3B001h
Multi-element, space qualified focal plan arrays	6A002e
Multichip integrated circuits, industrial	3A001a
Multilevel security capability, equipment	5A002a.6

Description of controlled goods	Entry
Multimode optical fibre & cables, high tensile strength	5A001c.1
Multiple seal valves incorporating a leak detection port	2B350g
Multipoint initiation systems	3A232b
Multispectral imaging sensors	6A002b
Multistage light gas gun systems	2B232
Mycoplasma mycoides	1C352b
N, N-Dialkyl [methyl, ethyl or propyl (normal or iso)] aminoethane-2–ols	1C450b.5
N, N-Dialkyl [methyl, ethyl or propyl (normal or iso)] aminoethane-2–thiols	1C450b.6
N, N-Dialkyl [methyl, ethyl or propyl (normal or iso)] aminoethyl-2–chlorides	1C450b.4
N, N-Dialkyl [methyl, ethyl or propyl (normal or iso)] phosphoramidic dihalides	1C450b.2
Nanocrystalline alloy strips	1C003c
Natural uranium	0C001
Navigation systems, equipment & components, inertial	7A003 7A103
NDT (non-destrictive test) inspection equipment (3D)	1B001f 9B007
Neodymium lasers	6A005c.2
Neodymium lasers, Q-switched	6A205f
Neptunium-237	1C012b
Network analysers	3A002e
Neural computers/assemblies/components	4A004b
Neural network integrated circuits	3A001a.9
Neutron detection and measuring instruments	0A001j
Neutron generator systems & tubes	3A231
Newcastle disease virus	1C352a.9
Nickel alloy powders	1C002b.1.a
Nickel alloys	1C002a.1.a 1C002a.2.a 1C240
Nickel aluminides	1C002a.1.a
Nickel metal	1C240 0C005
Nickel metal powders	0C005 1C240
Niobium (columbium) alloy powders	1C002b.1.b 1C002a.2.b

Description of controlled goods	Entry
Nitrided niobium-titanium-tungisten alloy crucibles	2A225a.7
2-Nitrodiphenylamine	1C111c.3
Nitrogen dioxide (dinitrogen tetroxide)	1C111a.3.b
Noise cancellation systems for vessels, active	8A002o.3.b
Noise reduction equipment for vessels, acoustic mounts	8A002o.3.a
Noise reduction systems for vessels, active	8A002o.3.b
Non-composite ceramic materials, technology	1E002c.2
Non-destructive test inspection equipment	1B001f
Non-destructive test inspection equipment, rocket motor	9B007
Non-fluorinated polymeric manufactures	1A003
Non-fluorinated polymeric substances	1C008
Non-planar absorbers	1C001a
Non-tunable solid state lasers, neodymium	6A005c.2
Nozzles, aerodynamic isotope separation	0B001d.1
Nozzles, for pyrolitic deposition	1B116
Nozzles, rocket motor (liquid)	9A006e 9A106b
Nozzles, rocket motor (solid)	9A008c 9A108b
Nuclear-grade graphite	0C004
Nuclear heat sources	1C012
Nuclear reactors & reactor components	0A001
Nuclear reactors fuel element fabrication plant/equipment	0B005
Nuclear reactors fuel element reprocessing plant/equipment	0B006
Numerical control for machine tools-software	2D002
Numerical control for machine tools-technology	2E003d
Object detection and location systems (acoustic)	6A001a.1.b
Ocean salvage systems	8A001e
Operating system development tools/compilers as source code	4D003a
Operating system software, development tools & compilers	4D003a
Operating system software, multi-data stream processing equipment	4D003a
Operating systems for real time processing equipment, software	4D003d
Optical (infrared) tracking (range) radars	6A108b.2

Description of controlled goods	Entry
Optical components for lasers	6A005e
Optical components from zinc selenide or zinc sulphide	6A004b
Optical components, space-qualified	6A004c
Optical computers	4A004c
Optical control equipment	6A004d
Optical detectors & sensors	6A002a 6A102
Optical equipment	6A005f
Optical fabrication technologies	6E003a.2
Optical fibre & accessories, communications	5A001c.1 5A001c.2
Optical fibre characterisation equipment	5B001a
Optical fibre couplers or connectors for underwater use	8A002c
Optical fibre manufacturing equipment	5B001a
Optical fibre sensing elements, hydrophones	6A001a.2.a.2
Optical integrated circuits	3A001a.6
Optical materials, with non-linear characteristics	6C004c
Optical mirrors (reflectors)	6A004a 6A005e.2
Optical sensor cryocoolers	6A001d.1
Optical sensors-flight control systems-technology	7E004
Optical sensors, optical fibre	6A001d.3.a
Optical surface coating/treatment technology	6E003a.1
Optics, (optional components)	6A004
Optimisation of rocket systems trajectory technology	7E104
Organic fibres & filamentary materials	1C010a
Organo-metallic compounds	3C003
Oxide matrix reinforced materials	1C007f
Oxygen iodine (O_1—I) laser	6A005a.5.c.1
Para-hydrogen raman shifters	6A205e
Passive acoustic systems	6A001a.2
Passive sensors, direction finding systems	7A115
Pasteurella pseudotuberculosis var pestis (Yersinia pestis)	1C351c.13

Description of controlled goods	Entry
Pathogens	1C352 1C353a 1C351 1C354
PBAA (polybutadiene-acrylic acid)	1C111b.3
PBAN (polybutadiene-acrylic acid-acrylonitrile)	1C111b.4
PEEK (polyether ether ketone)	1C008c.1
PEK (polyether ketone)	1C008c.3
PEKEKK (polyether ketone ether ketone ketone)	1C008c.4
PEKK (polyether ketone ketone)	1C008c.2
Penetrators/connectors (fibre optic), hull	8A002c
Performance improvement software, navigation systems	7D003a 7D003b
Peste des petits ruminants virus	1C351a.10
PFIB: 1,1,3,3,3-Pentafluoro-2-(trifluoromethyl)-1-propene	1C450a.2
Phased array antennae (in radar)	5A001d 6A008e
Phased array/segment mirror control equipment	6A004d.4
Phenylene, lubricating fluids	1C006b
Phosgene: Carbonyl dichloride	1C450a.4
Phosphate glass	6C004e
Phosphor bronze mesh packings	1A226
Phosphorus hydrides	3C004
Phosphor oxychloride	1C350.2
Phosphorus pentachloride	1C350.38
Phosphorus pentasulphide	1C350.47
Phosphorus trichloride	1C350.7
Photocathodes	6A002a.2.b.2
Photomultiplier tubes	6A202
Photovoltaic arrays, space qualified or radiation hardened	3A001e.1
Piezoelectric polymer & copolymer, components	1A001b
Piezoelectric sensing elements, hydrophones	6A001a.2.a.2
Pinacolone	1C350.39
Pinacolyl alcohol	1C350.28
Piping, multi-walled incorporating a leak detection port	2B350h
Planar absorbers	1C001a

Description of controlled goods	Entry
Plant pathogens, bacteria or fungi	1C354
PLAs (programmable logic arrays)	3A001a.8
Plasma atomisation & melting furnaces	2B227b
Plasma dry etching equipment	3B001c
Plasma enhanced CVD equipment	3B001d
Plasma enhanced or plasma assisted CVD production equipment	2B005a.1.c
Plasma isotope separation plant	0B001a.8
Plasma separation process equipment & components	0B001i
Plasma separation RF ion excitation coils	0B001i.2
Plasma spraying production equipment, with controlled atmosphere	2B005d
Platinised catalysts	1A225
Plutonium	0C002
Plutonium-238 in any form	1C012a
Plutonium metal production systems	0B006
Plutonium nitrate conversion systems	0B006
Pockel cell electro-optical shuttering	6A203b.4.c
Polybutadiene-acrylic acid (PBAA)	1C111b.3
Polybutadiene-acrylic acid-acrylonitrile (PBAN)	1C111b.4
Polysilazanes, precursor for silicon nitride	1C007e.2
Polythiophene	1C001c
Porcine enterovirus type 9	1C352a.11
Porcine herpes virus (Aujeszky's disease)	1C352a.6
Porous nickel metal	0C005 1C240
Positioning equipment, global	7A105 7A005
Positioning systems, acoustic	6A001a.1.d
Positive resists for semiconductor lithography	3C002a
Post-flight data processing software	6D103
Potassium bifluoride	1C350.41
Potassium cyanide	1C350.40
Potassium fluoride	1C350.14
Potassium hydrogen fluoride (see potassium bifluoride)	1C350.41
Potassium titanyl arsenate (KTA) boules	6C004b.1

Description of controlled goods	Entry
Powder metallurgy manufacturing equipment	9B009
Powdered metals, as fuel	1C111a
Power supplies, direct current	0B001j.6 3A227 3A226 0B001j.5
Power systems, air independent, for underwater use	8A002j
Power transmission shaft systems, marine	8A002o.1.e
Precision rotor forming mandrels	2B209b
Precision tracking systems, usable for missiles	6A108b
Precursors for toxic chemical agents	1C350
Preforms for space vehicles (metal-coated fibre)	9A110
Preforms, fibrous or filamentary materials	1C010e 9A110
Preforms, metal coated fibre (for propulsion systems)	9A110
Prepreg production equipment	1B001e
Prepregs, fibrous or filamentary materials	1C010e 9A110
Presses, hot isostatic	2B004 2B204
Pressure sensors, manganin & quartz	6A226
Pressure transducers	2B230
Pressure tubes, for fuel elements & primary coolant	0A001e
Pressure vessels, for nuclear reactors	0A001b
Primary cells/batteries, high energy	3A001e.1.a
Probing (test) systems, semiconductor devices	3B002d
Process control instrumentation, for reprocessing plant	0B006
Processing equipment for bay or bottom cable systems	6A001a.2.f
Processors, digital array	3A001a.3 4A003
Processors, digital signal	3A001a.3 4A003
Product & tails collector systems, uranium vapour	0B001g.3 0B001i.5
Product & tails stations, UF_6	0B002c
Production equipment, propulsion systems & components	9B115
Production equipment, reentry vehicles	9B115
Production facilities, reentry vehicles	9B116

Description of controlled goods	Entry
Production facilities, rockets/propulsion systems	9B116
Programmable gate & logic arrays (FPGAs & FPLAs), field	3A001a.7 3A001a.8
Projectile accelerators	2B232
Projection telescopes, laser diagnostics	6A005f.4
Projectors, acoustic	6A001a.1.c
Propellant bonding liner systems	9A008a
Propellant control systems	9A106d
Propellant production equipment	1B115
Propellant storage systems	9A006f
Propellant test and handling equipment	1B115
Propellants and their constituents	1B115
Propellants, additives & agents	1C111
Propeller blades or propfans composite technology	9E003b.2
Propeller noise reduction software	8D002
Propeller noise reduction technology	8E002a
Propellers, contrarotating	8A002o.1.b
Propellers, water screw	8A002o.1
Propulsion system composite components/structures	9A110 9A010
Propulsion system test/inspection/production software	9D101
Propulsion systems, rocket	9A007
Propulsion systems, rocket	9A119 9A009 9A005
Propulsion systems/components, production equipment	9B115
Protective and detection equipment	1A004
Proximity focused image intensifier tubes	6A203b.4.a
Pseudomonas mallei (Burkholderia mallei)	1C351c.8
Pseudomonas pseudomallei (Burkholderia pseudomallei)	1C351c.9
Puccinia graminis (syn. Puccinia graminis f. sp. tritici)	1C354b.4
Puccinia striiformis (syn. Puccinia glumarum)	1C354b.5
Pulsating Chemical Vapour Deposition production equipment	2B005a.1.a
Pulse excited Q-switched neodymium-doped lasers	6A205f
Pulse generators, high-current for detonators	3A229

Description of controlled goods	Entry
Pulse generators, high-speed	3A230
Pulse jet engines/components	9A111
Pulse liquid rocket engines	9A010d
Pulse radar cross-section measurement systems & components	6B008
Pulsed electron accelerators	3A201c
Pumpjet propulsion systems	8A002p
Pumps, bellows	2B350i
Pumps, canned drive	2B350i
Pumps, centrifugal	2B350i
Pumps, diaphragm	2B350i
Pumps, double-seal	2B350i
Pumps, liquid propellant	9A106c
Pumps, lithium amalgam	1B233.b.2
Pumps, magnetic drive	2B350i
Pumps, mercury amalgam	1B233.b.2
Pumps, molecular	0B001b.9
Pumps, multiple seal	2B350i
Pumps, nuclear reactor coolant	0A001g
Pumps, potassium amide in liquid ammonia	1B230
Pumps, submersible stage recirculation	0B004b.4
Pumps, vacuum	0B002f.2 2B231 2B350i
Pyrolitic deposition nozzles	1B116
Pyrolitic deposition systems	2B104
Pyrolitically derived materials production technology	1E104
Pyrolised carbon-carbon materials	1A102
Pyrolysis equipment, for rocket nozzles/re-entry nose tips	2B104
Pyrolysis equipment, use software	2D101
Pyrolysis process control equipment	2B104
Q-switched lasers	6A205f 6A005c.2.c
QAM techniques development technology	5E001c.4.a
Quartz pressure sensors/transducers	6A226b

Description of controlled goods	Entry
3-Quinuclidinol	1C350.13
3-Quinuclidone	1C350.37
Radar altimeters	7A106
Radar cross section measurement systems, missile	6B108
Radar systems & components, civilian	6A008
Radar systems for space launch vehicles	6A108a
Radiation hardened computers	4A001
Radiation hardened designed (or rated) robots	2B007c
Radiation hardened detectors	6A002 6A102
Radiation hardened electronic computers	4A001a.2
Radiation hardened integrated circuits, industrial	3A001a.1
Radiation hardened robots	2B007c
Radiation hardened sensors	6A002
Radiation hardened TV cameras	6A203c
Radiation sensors, optical fibres	6A002d.3
Radiation shielding windows	1A227
Radio equipment	5A001b.2
Radio frequency ion excitation coils	0B001i.2
Radiographic equipment	3A101b
Radionuclides, alpha-emitting	1C236
Radium-226	1C237
Radome design software	6D003d.2
Ram type electrical discharge machines (CNC)	2B001d
Raman shift lasers	6A205e
Ramjet engines/components	9A011
Range gated illumination systems, underwater	8A002d.2
Rankine cycle engine, air independent	8A002j.1
Reactor fuel elements, reprocessing plant & equipment	0B006
Reactor vessels, chemical	2B350a
Reactors, metal organic chemical vapour deposition (MOCVD)	3B001a.2
Reactors, nuclear	0A001a
Rebreathing apparatus, underwater swimming	8A002q

Description of controlled goods	Entry
Receivers, microwave test	3A002f
Rechargeable cells/batteries, high energy	3A001e.1.b
Reciprocating diesel engine & component technology	9E003e.2
Recording equipment, analogue & digital tape recorders	3A002a
Reduced observables analysis software	1D103
Reduction gearing, light-weight marine transmissions	8A002o.1.d
Reentry vehicles	9A116a
Reentry vehicles/components, production equipment	9B115
Reflectance measuring equipment, absolute	6B004a
Reflectivity (electromagnetic) reducing materials	1C101
Reflectometers, mirror characterisation	7B102
Reflectors (mirrors), deformable	6A004a.1
Refrigeration units	0B001d.7.b 1B231
Regulation of composites technology	1E103
Reinforced composite materials	1C007f
Remote manipulators	2B225
Remotely controlled manipulators, for submersibles	8A002i
Remotely operated filling equipment, chemical	2B350f
Reprocessing plant, nuclear fuel	0B006
Resaturated pyrolised materials	1A102
Resin (thermoset) impregnated continous materials	1C210c
Resin impregnated fibre prepregs, propulsion & space systems	9A110
Resins, fast reacting ion-exchange	0B001f.1
Resist material, coated (semiconductor) substrates	3C002
Resist materials, semiconductor lithography	3C002
Reticles, integrated circuits of 3A001	3B001g
Ricin	1C351d.4
Rickettsia prowasecki	1C351b.3
Rickettsia quintana	1C351b.2
Rickettsia rickettsii	1C351b.4
Rickettsiae	1C351b
Rift Valley fever virus	1C351a.13

Description of controlled goods	Entry
Rinderpest virus	1C352a.12
Ring-shaped motor stators for multiphase AC motors	0B001b.10
Ring gyros (laser) & gyro components	7A002
Ring laser gyro mirror characterising equipment	7B002
Robot & end-effectors, use software	2D201
Robot controllers for high explosive handling	2B207a
Robot controllers	2B007
Robot end-effectors	2B007 2B207
Robots operating at altitudes of greater than 30 km	2B007d
Robots with real time 3D image processing or scene analysis	2B007a
Robots, underwater	8A002h
Rocket engines, liquid propellant	9A005
Rocket engines, solid propellant	9A107
Rocket fuels	1C111
Rocket handling & control equipment	9A115a
Rocket launching equipment	9A115a
Rocket modelling, simulaton & integration software	9D103
Rocket motor cases, solid	9A008b 9A108a
Rocket motor inspection equipment	9B007
Rocket motor insulation, solid rocket motor	9A008a 9A108a
Rocket motors, hybrid	9A009 9A109
Rocket nozzles, liquid fuel motor	9A006e 9A106b
Rocket nozzles, solid fuel motor	9A008c 9A108b
Rocket stages	9A009 9A005 9A119 9A007
Rocket/rocket motor, test benches/stands	9B117
Rockets, sounding	9A104
Rockets, space launch	9A004
Roller bearings, solid	2A001a 2A001b
Rotary position feedback units	2B008b

Description of controlled goods	Entry
Rotary shaft seals (for compressors/blowers), UF_6 resistant	0B001c.4
Rotor assemblies, gas centrifuge	0B001b.2
Rotor assembly mandrels, bellows forming	2B228a
Rotor blade components, tooling for manufacture	9B009
Rotor blade tip clearance control, compensating system software	9D004d
Rotor centrifugal balancing machines	2B229
Rotor fabrication/assembly equipment	2B228a
Rotor forming mandrels, precision	2B209b
Rotor straightening equipment or systems	2B228b
Rotor tube baffles, gas centrifuge	0B001b.5
Rotor tube caps, gas centrifuge	0B001b.6
Rotor tube cylinders & components, gas centrifuge	0B001b.3
Rotor tube rings or bellows, gas centrifuge	0B001b.4
Russian spring-summer encephalitis virus	1C351a.14
S-parameter test/measurement equipment	3B002a
S20 and S25 photocathodes	6A002a.2.a.3
Safety cabinets, capable of biological use	2B352f
Salmonella typhi	1C351c.10
Salvage systems, ocean	8A001e
Satellite communication equipment technology	5E001b.1
Satellite receivers, global positioning	7A005 7A105
Satellites	9A004
SAW (surface acoustic wave) components	3A001c.1
Saxitoxin	1C351d.5
Scanning cameras & systems	6A003b.2
Scoops for UF_6 extraction in gas centrifuges	0B001b.12
Scramjet engines/components	9A011
Sea-induced motion control systems, automatic	8A002n
Seal test/inspection equipment, for reactor fuel elements	0B005
Sealing equipment, for reactor fuel elements	0B005
Seals, aircraft/aerospace use	1A001a & c
Seals, for surface effect vessels	8A002k

Description of controlled goods	Entry
Secondary cells/batteries, high energy	3A001e.1.b
Security equipment, information	5A002
Security equipment, information, software	5D002
Segmented mirrors, assembly in space	6A004c.3
Self-contained diving apparatus	8A002q
Semi-closed diving apparatus	8A002q
Semiconductor component design software, computer-aided design	3D003
Semiconductor components, extended temperature range	3A001a.2
Semiconductor compound photocathodes	6A002a.2.b.3
Semiconductor diode lasers	6A005b
Semiconductor lasers	6A005b
Semiconductor probing systems, electron & laser beam	3B002d
Semiconductor, test equipment	3B002
Sensors, direction finding systems (passive)	7A115
Sensors, linear position feedback unit	2B008a
Sensors, multispectral imaging	6A002b
Sensors, on-line development of gas turbines	9B002
Sensors, optical	6A002a
Sensors, pressure (manganin & quartz)	6A226
Sensors, radiation hardened for missile use	6A102
Sensors, superconductive electromagnetic	6A006h
Separation mechanisms for missiles	9A117
Separation nozzles, aerodynamic isotope separation	0B001d.1
Separation nozzles, UF_6 carrier gas separation	0B001d.7.c
Separation plant, aerodynamic isotope separation	0B001a.3
Separation plant, isotope	0B001
Separation process (aerodynamic) equipment & components	0B001d
Separation tubes, aerodynamic isotope separation	0B001d.2
Separator module housings, uranium metal plasma source	0B001i.6
Separator module housings, uranium metal vapour source	0B001i.4
Separators, atomic laser isotopic separation	0B001g
Separators, centrifugal (biological)	2B352c
Separators, electromagnetic isotope	1B226

Description of controlled goods	Entry
Separators, molecular laser isotopic separation	0B001h
Servo valves, propellant control systems	9A106d
Shaft encoders (rotary input type)	3A001f
Sheep pox virus	1C352a.13
Shiga toxin	1C351d.6
Shigella dysenteriae	1C351c.11
Ship positioning systems, acoustic	6A001a.1.d
Shrink fit machines for rotor fabrication/assembly	2B228a
Sidelooking airborne radar (SLAR)	6A008d
Signal analysers	3A002c.1
Signal generators, frequency synthesiser	3A002d
Signal processing devices, acousto-optic	3A001c.3
Signal processing equipment, general purpose digital	4A003
Signal processing equipment, hydrophone arrays	6A001a.2.c
Signal processing equipment, sonar	6A001a.2.c
Signal processor microcircuits	3A001a.3
Signal tracking development/use technology, laser	5E001b.2
Signature (electromagnetic) reduction devices	1C101
Signature (electromagnetic) reduction materials	1C001
Signature suppression devices, treatments & fittings	1C101 1C001
Silahydrocarbon oils	1C006a.1
Silicon-on-sapphire integrated circuits	3A001a
Silicon carbide (SiC) substrate blanks	6C004d
Silicon microcircuits, industrial	3A001a
Silicon, hetero-epitaxial grown multi-layer substrates	3C001a
Silicone fluid, fluorinated	1C006b.2
Silver gallium selenide ($AgGaSe_2$ boules	6C004b.2
Silyated resists for semiconductor lithography	3C002d
Simultaneous initiation arrangements or systems, single & multipoint	3A232b
Single-element photodiodes & phototransistors	6A002a.1
Single crystal casting control software	9D004c
Single crystal casting equipment	9B001a
Skin friction transducers, wall	9B008

Description of controlled goods	Entry
Skirts, for surface effect vessels	8A002k
Slapper detonators (electric)	3A232a.3
Slurry propellant control systems	9A106d
Slush hydrogen storage	9A006c
Slush hydrogen transfer systems	9A006c
Small waterplane area vessels	8A001i
Sodium (Na) metal vapour lasers	6A005a.2.c
Sodium bifluoride	1C350.44
Sodium cyanide	1C350.45
Sodium fluoride	1C350.43
Sodium sulphide	1C350.50
Software for A/D converters usable in missiles	3D101
Software for asynchronous transfer mode (ATM) equipment	5D001d.1
Software for bearings and machine tools	2D001
Software for electromagnetic accelerators	3D101
Software for grinding and milling machines	2D202
Software for QAM based radio equipment operating above level 128	5D001b.4.a
Software for radio equipment operating above 31 GHz	5D001d.4.b
Software for telecomms equipment employing optical switching	5D001d.3
Software, see sub-category D for controls in each category	
Software, adaptive control	2D002
Software, analysis of reduced observables	1D103
Software, composite materials (organic/metal/carbon matrix)	1D002
Software, digital computers	4D
Software, electronic devices	2D002
Software, filament winding machine use	1D201
Software, for telecomms equipment containing a laser with wavelength >1750nm	5D001d.2.a
Software, for telecomms equipment incorporating analogue techniques	5D001d.2.b
Software, for the development, production or use of electronic equipment and components	3D001
Software, multi-datastream processing equipment compilers	4D003a
Software, multi-datastream processing equipment operating systems	4D003a
Software, numerical control	2D002
Software, real time processing equipment operating systems	4D003d

Description of controlled goods	Entry
Software, real time processing in machine tools	2D002
Software, software development tools as source code	4D003a
Software, source code	4D003a
Software, specially designed for dynamic adaptive routing equipment	5D001c.3
Software, stored programme controlled equipment	3D002
Software, tools in source code	4D003a
Solar cells, space qualified or radiation hardened	3A001e.1.c
Solenoids, superconductive	3A001e.3 3A201b
Solid state imaging devices	6A002
Solid propellant rocket engines	9A107
Solid rocket fuels	1C111
Solid rocket propulsion system, components	9A008 9A108
Solid rocket propulsion systems	9A007 9A119
Solid roller bearings	2A001a 2A001b
Solid state cameras	6A003b.1
Solid state imaging devices	6A203b.4
Solid state joining equipment, tools/dies/fixtures	9B004
Solid state lasers, non-tunable	6A005c.2
Solid state lasers, tunable	6A005c.1
Solid state microwave amplifiers	3A001b.4
Solid state switches	3A228
Sonar log equipment	6A001b
Sonar processing equipment	6A001a.2.c
Sonar signal processing equipment	6A001a.2.c
Sounding rocket test, inspection & production software	9D101
Sounding rockets	9A104
Source code, for multi-data-stream processing equipment	4D003a
Space-qualified optical components	6A004c
Space-qualified solid state detectors	6A002a.1
Space launch vehicle test, inspection & production software	9D101
Space launch vehicles	9A004

Description of controlled goods	Entry
Space probes	9A004
Spacecraft	9A004
Spacecraft components	9A010
Spacecraft inertial navigation equipment/components	7A003
Spark-gaps, triggered	3A228b
Spectrum analysers	3A002c.1
Spherical aluminium powder	1C111a.1
Spin forming machines	2B009 2B209
Spin forming machines combining a flow-forming function	2B009
Spin forming/flow forming equipment, software for	2D201
Spindle assemblies, machine tools	2B008c
Spraying production, equipment, plasma with controlled atmosphere	2B005d
Spread spectrum development technology techniques	5E001b.4
Spread spectrum radio equipment	5A001b.3
Spread spectrum spreading code generation	5A002a.5
Sprytron tubes, vacuum	3A228a
Sputter deposition production equipment	2B005e
SQUIDs (superconductive quantum interference devices)	6A006h
SRAMs (static random-access memories)	3A001a.4
Staging mechanisms for missiles	9A117
Staphylococcus aureus toxins	1C351d.7
START gyros & gyro components	7A002
Static random-access memories (SRAMs)	3A001a.4
Stators, ring shaped (centrifugal rotor motor)	0B001b.10
Steam sterilisable freeze drying equipment	2B352e
Steel, maraging	1C116 1C216
Step & repeat equipment, semiconductor wafer processing	3B001f
Stirling cycle engine, air independent	8A002j.4
Storage integrated circuits	3A001a.4
Storage tanks, chemical	2B350c
Strap down/gimbal gyros & gyro components	7A002

Description of controlled goods	Entry
Streak cameras	6A203b.1 6A003a.3 6A203a.2
Streak tubes, electronic streak cameras	6A203b.2
Subcavitating hydrofoils	8A002m
Submarine vessel positioning systems, acoustic	6A001a.1.d
Submersible stage recirculation pumps	0B004b.4
Submersible vehicle systems or equipment	8A002a 8A001
Substrate development/production technology, diamond film	3E002d
Substrates, multi-layer hetero-epitaxial materials	3C001
Substrates, semiconductor with resist coating	3C002
Sulphur dichloride	1C350.52
Sulphur monochloride	1C350.51
Super-ventilated propellers	8A002o.1.a
Supercavitating hydrofoils	8A002m
Supercavitating propellers	8A002o.1.a
Superconductive composite conductors	1C005
Superconductive devices or circuits	3A001d
Superconductive electromagnetic sensors	6A006h
Superconductive electromagnets or solenoids	3A001e.3 3A201b
Superconductive electronic device technology	3E002c
Superconductive gates, current switching	3A001d.2
Superconductive propulsion engines	8A002o.2.c
Superconductive quantum interference devices (SQUIDs)	6A006h
Superplastic forming technology	2E003b.1.a 2E003b.2.a
Superplastic forming tools, dies, moulds or fixtures	1B003
Supersonic expansion nozzles for UF_6 carrier gas	0B001h.1
Surface-effect vehicles, (fully skirted variety)	8A001f
Surface-effect vehicles, (rigid sidewalls)	8A001g
Surface acoustic wave devices	3A001c.1
Surface coating & processing equipment	2B005
Surface irregularity measuring equipment/instruments	2B006c
Surface skimming (shallow bulk) acoustic wave devices	3A001c.1

Description of controlled goods	Entry
Surface vessel positioning systems, acoustic	6A001a.1.d
Surface vessels & components	8A001
Survey systems, bathymetric	6A001a.1.a
Swine fever virus (African)	1C352a.1
Swine fever virus (hog cholera virus)	1C352a.7
Switches, solid state	3A228
Syntactic foam, underwater use	8C001
Synthetic aperture radar (SAR)	6A008d
Synthetic diamond material	6C004f
Systolic array computers/assemblies/components	4A004a
Tanks, chemical storage	2B350c
Tantalum crucibles coated with tantalum carbide/nitride/boride	2A225c
Tantalum made or lined crucibles	2A225b
Tape-laying machines	1B001b 1B101b
Tape designed for testing recording equipment of entry 3A002a	3A002a
Tape recording equipment	3A002a
Technology for equipment or software specified in 2A, 2B or 2D	2E001
Technology for interactive graphics, integrated in numerical control equipment	2E003a
Technology for radio equipment employing quadrature amplitude modulation (QAM)	5E001c.4.a
Technology for radio equipment operating at greater than 31 GHz	5E001c.4.b
Technology for telecomms equipment employing a laser	5E001c.2
Technology for telecomms equipment employing a laser and analogue techniques	5E001c.2.e
Technology for telecomms equipment employing a laser and coherent optical transmission	5E001c.2.c
Technology for telecomms equipment employing a laser and optical amplification using PDFFA	5E001c.2.b
Technology for telecomms equipment employing a laser and WDM techniques	5E001c.2.d
Technology for telecomms equipment employing ATM techniques	5E001c.1
Technology for telecomms equipment employing common channel signalling	5E001c.5
Technology for telecomms equipment employing optical switching	5E001c.3
Technology for the development of software for filament winding machines	1E203
Technology for the development or productions of metals	1E202
Technology for the development/production/use of telemetry equipment usable in missiles	5E101

Description of controlled goods	Entry
Technology for the use of composite materials	1E201
Technology, see sub-category E for controls for each category	
Technology, airbourne equipment	7E004
Technology, composite maintenance or repair	1E002e
Technology, composite materials installation	1E002e
Technology, composite structures repair	1E002f
Technology, development of frequency agility techniques	5E001b.4
Technology, development of spread spectrum techniques	5E001b.4
Technology, diamond substrate film	3E002d
Technology, for composite materials, production equipment	1E001
Technology, for the development of software for composites	1E102
Technology, for the use of material, composite production	1E101
Technology, gas turbine engines & components	9E003a 9E003c
Technology, helicopter power transfer systems	9E003d
Technology, hetero-structure semiconductor development	3E002b
Technology, high output type diesel engines	9E003e
Technology, integration software for expert systems	2E003e
Technology, machine tool instruction generators	2E003d
Technology, superconductive electronic device	3E002c
Technology, tilt rotor/wing power transfer systems development	9E003d
Technology, vacuum microelectronic device	3E002a
TEGDN (triethylene glycol dinitrate) propellant additive	1C111c.2
Telecommunications equipment	5A001
Telecommunications equipment/system software	5D001
Telecommunications production equipment	5B001a
Telecommunications test equipment	5B001a
Telemetering & telecontrol equipment	5A101
Telemetry equipment/systems	5A101
Television cameras, underwater	8A002d.1
Tellurium (Te) with purity of 99,995 % or better	6C002a
Tempest type equipment	5A002a.4
Terrestrial geophones	6A001b
Teschen disease virus	1C352a.14

Description of controlled goods	Entry
Test benches/stands, rockets/rocket motors	9B117
Test chambers, aerosol challenge	2B352g
Test equipment — propellants and their constituents	1B115
Test equipment for radio equipment employing QAM > 128	5B001b.4.a
Test equipment for radio equipment operating at greater than 31 GHz	5B001b.4.b
Test equipment for telecomms equipment employing a laser	5B001b.2
Test equipment for telecomms equipment employing a laser and analogue techniques	5B001b.2.d
Test equipment for telecomms equipment employing a laser and coherent optical transmission	5B001b.2.c
Test equipment for telecomms equipment employing a laser and with optical amplification	5B001b.2.b
Test equipment for telecomms equipment employing ATM	5B001b.1
Test equipment for telecomms equipment employing digital techniques	5B001b.1
Test equipment for telecomms equipment employing optical switching	5B001b.3
Test equipment for telecomms equipment utilising common channel signalling	5B001b.5
Test equipment, semiconductor devices	3B002
Test piece support structures for vibration test systems	2B116d
Test receivers, microwave	3A002f
Test tape designed for recording equipment of entry 3A002a	3A002a
Tetrodotoxin	1C351d.8
Thallium arsenic selenide (Tl_3AsSe_3 or TAS)	6C004b.3
Thermal imaging equipment	6A002c
Thermal ionisation mass spectrometers (TIMS)	3A233c
Thermal sensors, optical fibre	6A002d.3
Thermoplastic liquid crystal copolymers	1C008b
Thermoset resin impregnated materials	1C210c
Thio-ethers (alkylphenylene), lubricating fluids	1C006b.1
Thiodiglycol	1C350.1
Thionyl chloride	1C350.9
Thorium metal/alloys/compounds/concentrates	0C001
Thrust chamber, high pressure	9A006e 9A106c
Thrust chamber, high pressure	9A108c
Thrust chambers — liquid rocket propulsion systems	9A006h
Thrust vector control systems & sub-systems	9A008d

Description of controlled goods	Entry
Thulium-YAG (Tm:YAG) lasers	6A005c.1
Thulium-YSGG (Tm:YSGG) lasers	6A005c.1
Tick-borne encephalitis virus	1C351a.14
Tilt rotor/tilt wing power transfer system technology	9E003d
Time or frequency domain processing & correlation equipment	6A001a.2.c
TIMS (Thermal ionization mass spectrometers)	3A233c
Titanium-sapphire (Ti: Al_2O_3) lasers	6A005c.1
Titanium alloy powders	1C002b.1.c
Titanium alloys, as tubes/solid forms/forgings	1C202b 1C002a.1.b 1C002a.2.c
Titanium aluminides	1C002a.1.b
Titanium doped sapphire laser host material	6C005a
TMETN (trimethylolethane trinitrate)	1C111c.4
Tooling for powder metallurgy rotor blade component manufacture	9B009
Tow-placement machines	1B001b
Towed acoustic hydrophone arrays	6A001a.2.b
Toxic gas monitoring systems	2B351
Toxins, natural	1C351d
Tracking radar	6A0081
Tracking systems, precision	6A0081 6A108b
Transducers, acoustic projectors	6A001a.1.c
Transducers, hydrophone	6A001a.2.a
Transducers, wall skin friction	9B008
Transient recorders (Waveform digitisers)	3A002a.5
Transistor test equipment, S-parameter measurement	3B002a
Transistors, microwave	3A001b.3
Travelling wave tubes (TWTs)	3A001b.1.a
Tray exchange towers, hydrogen sulphide-water	0B004b.4
Triethanolamine	1C350.46
Triethanolamine hydrochloride	1C350.53
Triethyl phosphite	1C350.30
Triethylene glycol dinitrate (TEGDN)	1C111c.2
Triggered spark-gaps	3A228b

Description of controlled goods	Entry
Trimethyl phosphite	1C350.8
Triodes, cold cathode	3A228a
Tritium plant	1B231
Tritium recovery, extraction & concentration facilities	1B231
Tritium, compounds & mixtures	1C235
Trusted computer system evaluation criteria (TCSEC) capability	5A002a.6
Tubes, frequency agile	3A001b.1
Tubes, gas krytron	3A228a
Tubes, vacuum sprytron	3A228a
Tunable band-pass filters	3A001b.5
Tunable lasers, solid state	6A005c.1
Tungsten & molybdenum metal alloys	1C117
Tungsten alloys	1C004
Tungsten alloys, as parts	1C226
Tungsten carbide, as parts	1C226
Tungsten, as parts	1C226
Turbines, gas aero engines	9A001
Turbines, gas aero engines, test software	9D004b
Turbocompound engines	9A101
Turboexpanders and turboexpander-compressors	1B232
Turbofan & turbojet engines, lightweight	9A101
Turning machines (CNC)	2B001a
TV cameras, radiation-hardened	6A203c
Two dimensional focal plane arrays	6A002a.3
TWTs (Travelling Wave Tubes)	3A001b.1.a
UF_6/carrier gas separation systems	0B001h.5 0B001d.7
UF_6 auxiliary isotope separation/enrichment equipment	0B002
UF_6 cold traps	0B002b 0B001d.7.d
UF_6 desublimers	0B002b
UF_6 liquefaction stations	0B002d
UF_6 mass spectrometers/ion sources	0B002g

Description of controlled goods	Entry
UF_6 piping & header systems	0B002e
UF_6 product & tails stations	0B002c
UF_6 resistant compounds & powders	0C005
UF_6 vacuum pumps	0B002f.2
Underwater (propeller) noise reduction software	8D002
Underwater cameras, photographic	8A002d-f
Underwater communication cable	5A001c.2
Underwater communications systems	5A001b.1
Underwater electronic imaging systems	8A002f
Underwater noise reduction technology	8E002
Underwater optical fibre cables & accessories	5A001c.2
Underwater robots, computer controlled	8A002h
Underwater swimming apparatus	8A002q
Underwater vehicles, industrial	8A001
Underwater velocity measurement equipment	6A001b
Underwater vision systems	8a002d
Unmanned tethered submersible vehicles	8A001c
Unmanned untethered submersible vehicles	8A001d
Uranium conversion plant & equipment	0B003
Uranium cooling equipment	0B001g.2
Uranium electromagnetic separator vacuum housings	0B001j.3
Uranium fluoride (vapour product & tails collector systems)	0B001g.3
Uranium hexafluoride (UF_6) resistant compounds & powders	0C005
Uranium isotopes separation, lasers or laser systems	0B001g.5 0B001h.6
Uranium metal, alloys, compounds & concentrates	0C001 0C002
Uranium oxidation systems	0B001e.6
Uranium pentafluoride (UF_5) product filter collectors	0B001h.2
Uranium plasma generation systems	0B001i.3
Uranium titanium alloys	1C004
Uranium vapour product & tails collector systems	0B001g.3
Uranium, enriched in Uranium-233 or Uranium-235	0C002

Description of controlled goods	Entry
Vacuum furnaces	2B226 2B227
Vacuum headers	0B002f.1
Vacuum housings for uranium electromagnetic separators	0B001j.3
Vacuum induction furnace, power supplies	2B226
Vacuum induction furnaces	2B226
Vacuum manifolds	0B002f.1
Vacuum melting, remelt & casting furnaces	2B227
Vacuum microelectronic device development/production technology	3E002a
Vacuum pump	2B231 0B002f.2 0B002f.2 2B350i
Vacuum tubes, industrial electronic	3A228 3A001b.1
Valves, bellows	2B350g
Valves, bellows seal	2A226
Valves, diaphragm	2B350g
Valves, double-seal	2B350g
Valves, gaseous diffusion isotope separation	0B001c.6
Valves, industrial electronic	3A001b.1 3A228a 3A228b
Valves, multiple seal incorporating a leak detection port	2B350g
Valves, non-return (check)	2B350g
Variola virus	1C351a.15
Vector processors/assemblies	4A003
Vehicles, space/space craft/rocket launch support	9A115b
Velocity interferometers (VISARs)	6A225
Velocity measurement equipment, underwater	6A001b
Venezuelan equine encephalitis virus	1C351a.16
Ventilated propellers	8A002o.1.a
Verotoxin	1C351d.9
Vesicular stomatitis virus	1C352a.15
Vessel noise reduction equipment	8A002.o.3
Vessel positioning systems, acoustic	6A001a.1.d
Vessels, marine	8A001

Description of controlled goods	Entry
Vibration test equipment production and use software	2D101
Vibration test equipment using digital control techniques	2B116a
Vibration test equipment, acoustic	9B006
Vibration thruster (shaker units) for vibration test systems	2B116c
Vibrio cholerae	1c351c.12
Video cameras incorporating solid state sensors	6A003b.1
Vinylidene fluoride copolymers	1C009a 1A001
Viruses	1C351 1C352 1C352a 1C351a
Viscous software, 2D or 3D engine flow modelling	9D004a
Vision systems, underwater	8A002d
Vortex tube units, UF_6 separation from carrier gas	0B001d.7.c
Vortex tubes, aerodynamic isotope separation	0B001d.2
Wafer handling systems, semiconductor	3b001e
Wafer processing, semiconductor manufacture	3B001f
Wafers, comprising multiple epitaxially grown layers	3C001
Wafers, semiconductor with function determined	3A001a
Wall skin friction transducers	9B008
Water-hydrogen sulphide exchange tray columns	1B229
Water-screw propellers	8A002o.1
Water distillation towers, heavy	0B004b.4
Water jet (pumpjet) propulsion systems	8A002p
Water jet cutting machines (CNC)	2B001e.1.a
Water tunnels, propulsion model acoustic field measurement	8B001
Water-hydrogen sulphide exchange towers	0B004b.1
Waveform digitisers (transient recorders)	3A002a.5
Wax pattern preparation equipment, ceramic shell	9B001d
Weaving machines	1B001c
Western equine encephalitis virus	1C351a.17
Wet-spinning equipment for refractory ceramics	1B001d.3 1B101d.3
White pox	1C351a.18

Description of controlled goods	Entry
Wide-swath bathymetric survey systems	6A001a.1.a
Wind tunnel aero-model technology	9E003b.1
Wind tunnel, control systems	9B005
Wind tunnels, usable for missiles	9B105
Windows, glass for nuclear radiation shielding	1A227
Work stations, as computers	4A003b
X-ray equipment, radiographic	3A101b 3A201c
X-ray sensitive resist materials	3C002c
Xanthomonas albilineans	1C354a.1
Xanthomonas capestris pv. aurantifolia	1C354a.2
Xanthomonas citri	1C354a.2
Yellow fever virus	1C351a.19
Yttrium oxide (yttria) (Y_2O_3), crucibles made of or coated with	2A225a.8
Zinc selenide (ZnSe), substrate blanks	6C004a
Zinc sulphide (ZnS), substrate blanks	6C004a
Zirconium fluoride (ZrF_4) glass	6C004e
Zirconium metal and alloy powder	1C111a.2
Zirconium metal and alloy tubes & assemblies	0A001f
Zirconium metal, alloy and compounds	1C234
Zirconium oxide (zirconia) (ZrO_2) made/coated crucibles	2A225a.9
Zoonoses	1C351