TECHNICAL INFORMATION REQUIREMENTS

The GOODS REVIEW LIST (GRL) (S/2002/515) is divided into the following five sections containing items of potential dual use that are subject to review by the 661 Sanctions Committee before approval for export to Iraq may be granted:

Section A – Chemical Section
Section B – Biological Section
Section C – Missile Section
Section D – Nuclear Section
Section E – Conventional Section

In order that the supplier may provide necessary technical information pertaining to a particular set of questions, reference to that GRL entry is provided. The key to this entry is as follows:

If the entry starts with C, B, M, or N, this refers to Chemical, Biological, Missile, or Nuclear Section respectively. The subsequent number(s) then refer to the paragraph. For example C.10.4.1.3 refers to the GRL Section A - Chemical Section, paragraph 10.4.1.3.

Should the GRL Entry start with a number, this refers to the Conventional Section, that number being the Category. This section is divided into nine categories, 1 to 9. The subsequent letter / number combinations identify the paragraph specifically. For example, 9.A.1 refers to GRL Section E – Conventional Section, Category 9, paragraph A.1.

NOTE: This list is an advisory only and not a definite statement of items subject to review under resolution 1409(2002) and the Goods Review List.

Item:	Technical Information Requested:	GRL Entry:

Item:	Technical Information Requested:	GRL Entry:
Absorption columns	(1) define the internal diameter (m)? (2) define the material of construction that come into direct contact with the fluids or gases being processed, to include any lining or coating. For those construction materials that are metal alloys (including stainless steel), give the percent of titanium, tantalum, zirconium, nickel, copper, chromium, and silver contained in the alloy? (3) state if the absorption column is made of, or lined with: glass, vitrified or enamelled coatings, ceramics, ferrosilicons, graphite or carbon/graphite, fluoro-polymers? (4) describe the equipment, its mode of operation?	C.10.4.1.3
Aero gas turbine engines	(1) are the engines certified for the specific "civil aircraft" for which they are intended? (2) are the engines certified for civil use by the aviation authorities in a participating state? (3) are the engines designed to cruise at speeds exceeding Mach 1.2 for more than thirty minutes?	9.A.1
Agitators for use in reactor vessels	(1) describe the agitator? (2) define the material of construction that come into direct contact with the fluids or gases being processed, to include any lining or coating. For those construction materials that are metal alloys (including stainless steel), give the percent of titanium, tantalum, zirconium, nickel, copper, chromium, and silver contained in the alloy? (3) state if the agitator is made of, or lined with: glass, vitrified or enamelled coatings, ceramics, ferrosilicons, graphite or carbon/graphite, fluoropolymers?	C.10.4.1.1
Air filtration equipment	➔ Please use standard info sheet	C.10.4.8
Airborne altimeters	(1) frequency of operation? (2) does it have power management? (3) does it use phase shift key modulation?	7.A.6
Alloys with nickel and chromium or copper	➔ Please use standard info sheet	Chemical Equipment

Item:	Technical Information Requested:	GRL Entry:
Aluminium alloys	➔ Please use standard info sheet	N.2
Aluminium powder	➔ Please use standard info sheet	M.3.3
Analog-to-digital converters	(1) resolution (bits)? (2) total conversion time (micro/nano seconds)?	3.A.1.a.5
Any equipment using any type of cryptography	(1) what type and describe features?	5.A.2
Atomizers	➔ Please use standard info sheet	B.7.2
Attitude control equipment	(1) define the equipment, its method of operation, and its intended use?	M.6.2
Autoclaves (Biological)	(1) internal volume (m^3)? (2) single or double ended?	B.2.5
Autonomous Respirators (also called gas masks or respirators)	(1) type of chemical(s) the respirator is designed to protect the user against? (2) type of filter used? (3) specially designed for fire-fighter use?	C.10.4.8
Autonomous Respirators (biological)	(1) filter type? (2) full or half mask? (3) describe air handling system?	B.2.6
Batteries	(1) energy density (Wh/Kg)? (2) operating temperature range (K)? (3) specially designed for what application?	3.A.1.e.1 6.A.1.a.1
Bearings	➔ Please use standard info sheet	2.A.1
Bioreactor	(1) technical specifications? (2) working capacity of each vessel (in litres)?	B.3.1
Biosafety cabinet	(1) technical and functional specifications? (2) type and position of air filter used? (3) air flow drawing?	B.2.2
Biosafety isolator	(1) technical and functional specifications? (2) type and position of air filter used? (3) air flow drawing?	B.2.3
Bladders	(1) material of construction? (2) specially designed for what application?	1.A.1
Body armour and specially designed components	(1) performance design standard?	1.A.5
Capacitors (storage)	(1) repetition rate (Hz)? (2) voltage rating (kV)? (3) total energy capacity (J)?	3.A.1.e.2
Carbon/graphite lined equipment	(1) identify any chemical equipment, or part of the equipment, made of or lined with this material?	Chemical Equipment
Cell culture media	➔ Please use standard info sheet	B.5

Item:	Technical Information Requested:	GRL Entry:
Cell culture vessel	(1) describe the vessel? (2) effective growth surface area (in cm^2)?	B.3.2
Centrifugal balancing machines	(1) maximum capacity (Kg)? (2) balancing speed (rpm)? (3) specially designed for what application?	N.57 M.5.5.3 7.B.3
Centrifugal separators (for oil and gas field applications)	(1) overall dimensions? (2) flow rate? (3) material of construction of parts of the equipment that come into direct contact with the chemical(s) to be processed. For alloys, specify the percentage composition of metals?	C.10.4.1.4
Centrifuge fixtures for gyro bearings	(1) define the equipment, its method of operation, and its intended use?	7.B.3
Centrifuges	(1) state whether or not it is a continuous or semi continuous centrifuge? (2) capacity? (3) technical specifications?	B.4.1 B.4.2
Ceramics	(1) identify any chemical equipment, or part of the equipment, made of or lined with this material?	Chemical Equipment
Chemical mixtures	➔ Please use standard info sheet	Chemical Lists A & B
Chemical protection equipment	(1) is the equipment capable of protection against toxic chemicals? (2) does it qualifies as a protection personal suit or an autonomous respirator or an air filtration equipment?	C.10.4.8
Chemical reactors	(1) define the internal volume (m^3)? (2) define the material of construction that come into direct contact with the fluids or gases being processed, to include any lining or coating. For those construction materials that are metal alloys (including stainless steel), give the percent of titanium, tantalum, zirconium, nickel, copper, chromium, and silver contained in the alloy? (3) state if the reactor is made of, or lined with: glass, vitrified or enamelled coatings, ceramics, ferrosilicons, graphite or carbon/graphite, fluoropolymers?	C.10.4.1.1

Item:	Technical Information Requested:	GRL Entry:
Chemical spraying equipment	(1) define the operating pressure (bar) and the size of the droplets formed (microns)? (2) define the material of construction that come into direct contact with the fluids or gases being processed, to include any lining or coating. For those construction materials that are metal alloys (including stainless steel), give the percent of titanium, tantalum, zirconium, nickel, copper, chromium, and silver contained in the alloy? (3) state if the equipment is made of, or lined with: glass, vitrified or enamelled coatings, ceramics, ferrosilicons, graphite or carbon/graphite, fluoropolymers?	C.10.4.9
Chemicals	➔ Please use standard info sheet	Chemical & Biological Lists
Chemostat	(1) technical specifications? (2) working capacity of each vessel (in litres)?	B.3.1
Columns (chemical equipment)	(1) define the inner diameter (m)? (2) define the material of construction that come into direct contact with the fluids or gases being processed, to include any lining or coating. For those construction materials that are metal alloys (including stainless steel), give the percent of titanium, tantalum, zirconium, nickel, copper, chromium, and silver contained in the alloy? (3) state if the tower or columns are made of, or lined with: glass, vitrified or enamelled coatings, ceramics, ferrosilicons, graphite or carbon/graphite, fluoro-polymers? (4) describe the equipment, its mode of operation?	C.10.4.3
Composite materials	➔ Please use standard info sheet	1.C.10
Composite structures	(1) matrix type? (2) specific tensile strength (m)? (3) specific modulus (m)? (4) specially designed for what application?	1.A.2
Computers	➔ Please use standard info sheet	4.A.3
Condensers	➔ Please use standard info sheet	C.10.4.1.2

Item:	Technical Information Requested:	GRL Entry:
Conduits	(1) define the inner diameter (m)? (2) define the material of construction that come into direct contact with the fluids or gases being processed, to include any lining or coating. For those construction materials that are metal alloys (including stainless steel), give the percent of titanium, tantalum, zirconium, nickel, copper, chromium, and silver contained in the alloy? (3) state if the conduits, pipes or tubes are made of, or lined with: glass, vitrified or enamelled coatings, ceramics, ferrosilicons, graphite or carbon/graphite, fluoro-polymers?	C.10.4.3
Containment facility, room or enclosure	(1) describe its physical feature? (2) list all equipments fitted? (3) type and position of air filter used?	B.2.1
CNC Controllers (machine tools)	➔ Please use standard info sheet	2.B.1
Coolants	(1) composition? (2) density?	1.C.6
Cooling fluids (fluorocarbon)	(1) composition? (2) density?	1.C.6
Cross-flow and tangential filtration equipment	(1) technical specifications? (2) surface area of filter cartridge? (3) principle of operation?	B.4.3
Data recorders (analog)	(1) bandwidth per electronic track or channel (MHz)? (2) number of tracks / channels? (3) time displacement (base) error (nanoseconds)?	3.A.2.a.1
Data recorders (digital)	(1) digital interface transfer rate (Mbit/s)? (2) specially designed for what application? (3) space qualified?	3.A.2.a.2
Demineralisation equipment. Detailed list of components that make up the equipment, i.e., pumps, pipes, tanks, etc.	(1) the materials of construction of said components that come into direct contact with the process fluids. For alloys, specify the percentage composition of metals? (2) internal & overall dimensions? (3) internal lining material if any? (4) design parameters such as pressure, temperatures, process flow and processed fluids?	Chemical List

Item:	Technical Information Requested:	GRL Entry:
Detonators (electrical)	(1) the type of electrical detonators?	N.71
Diaphragms	➔ Please use standard info sheet	1.A.1
Digitally controlled radio receivers	(1) number of channels? (2) frequency switching time? (3) capacity to automatically search or scan part of the electromagnetic spectrum? (4) capacity to identify the received signals or the type of transmitter?	5.A.1.b.4
Digital-to-analog converters	(1) resolution (bits)? (2) settling time (nanoseconds)?	3.A.1.a.5
Dimensional inspection machines	(1) number of axes? (2) type? (3) accuracy (microns)?	2.B.6
Direct view imaging equipment	(1) define its wavelength range of operation? (2) does it incorporate an image intensifier tube or focal plane array?	6.A.2.c
Distillation columns	➔ Please use standard info sheet	C.10.4.1.3
Electrical discharge machines	(1) type? (2) number of axes? (3) numerical controller capable? (4) wire or non-wire operation?	2.B.1
Electronic computers	➔ Please use standard info sheet	4.A.1
Equipment for detecting, measuring the air concentration of toxic chemicals	➔ Please use standard info sheet	C.10.4.7
Explosives	➔ Please use standard info sheet	1.C.12
Fermenters	(1) technical specifications? (2) working capacity of each vessel (in litres)?	B.3.1
Ferrosilicons	(1) identify any chemical equipment, or part of the equipment, made of or lined with this material?	Chemical Equipment
Fibrous or filamentary materials	➔ Please use standard info sheet	1.C.10
Filament winding machines and specially designed components	(1) number of axes? (2) specially designed for what application?	1.B.1.a
Filters	➔ Please use standard info sheet	B.2.4
Flow rate transducers	➔ Please use standard info sheet	N.32

Item:	Technical Information Requested:	GRL Entry:
Flow-forming machines	(1) number of axes coordinated simultaneously? (2) rolling force (kN)? (3) capable of numerical or computer control?	2.B.9
Fluids (hydraulic)	(1) composition? (2) flash point (K)? (3) pour point (K)? (4) viscosity index?	1.C.6
Fluoropolymers	(1) identify any chemical equipment, or part of the equipment, made of or lined with this material?	Chemical Equipment
Focal plane arrays	(1) specify the material? (2) define the number of elements, their peak response wavelength, their response time constant? (3) is it space qualified?	6.A.2.a.3 6.A.2.e
Foggers	➔ Please use standard info sheet	B.7.3
Freeze-drying (lyophilisation) equipment	(1) technical specifications? (2) specially designed for what application? (3) condenser capacity (Kg of ice in 24 hours)?	B.4.5
Frequency synthesised signal generators	(1) frequency range (GHz)? (2) maximum frequency (GHz)?	3.A.2.d
Furnace	(1) is it capable of the disposal of toxic chemicals? If not, justify and explain why? (2) average chamber combustion temperature? (3) catalytic incineration or not? (4) describe the equipment, its mode of operation?	C.10.4.6
Furnace (Oxidation)	(1) type of furnace? (2) power ratings? (3) chamber size and number of chambers? (4) provision to supply gases to chamber? (5) type of gases supplied to furnace?	N.61
Gas masks	(1) does it use liquid or solid adsorption agent?	C.10.4.8
Glass	(1) identify any chemical equipment, or part of the equipment, made of or lined with this material?	Chemical Equipment
Global navigation systems receiving equipment	(1) does it employ decryption? (2) does it have a null-steerable antenna?	7.A.5

Item:	Technical Information Requested:	GRL Entry:
Graphite	(1) density (Kg/m3)? (2) particle size (microns)? (3) 'boron equivalent' figure? (4) identify any chemical equipment, or part of the equipment, made of or lined with this material?	M.8.1.1 N.49.12 Chemical Equipment
Grinding machine (machine tool)	(1) type? (2) number of axes? (3) positioning accuracy (microns)? (4) numerical controller capable?	2.B.1
Grinding machines (size reduction)	(1) manufacturer's data sheets? (2) capacity? (3) particle size of finished product?	B.4.6
Growth media	➔ Please use standard info sheet	B.5
Gyro-astro compasses	(1) confirm that the device derives position or orientation by tracking celestial bodies or satellites? (2) azimuth accuracy (expressed in seconds of arc)?	7.A.4
Gyros and angular or rotational accelerometers	(1) drift rate stability when measured in a 1g environment over a period of three months and with respect to a fixed calibration value (expressed in ° per hour) at linear acceleration levels below 10***g*** and at levels from 10***g*** to 100***g*** inclusive? (2) are they specified to function at linear acceleration levels exceeding 100***g***?	7.A.2
Heat exchangers	➔ Please use standard info sheet	C.10.4.1.2
Heavy transports (Vehicles)	➔ Please use standard info sheet	9.A.13
HEPA filters	➔ Please use standard info sheet	B.2.4
Hot isostatic presses	(1) inside diameter of chamber cavity (mm)? (2) maximum pressure (MPa)? (3) maximum temperature?	2.B.4
Hybrid systems containing inertial equipment and another sensor or localization equipment	(1) define the inertial equipment and the other sensor or localization equipment (Doppler radar, GPS or GLONASS, terrain data from data bases, etc). Define the hybridising of the two equipments?	7.D.3.b
Image intensifier tubes and specially designed components therefore	(1) does it possess a microchannel plate? (2) define its photocathode	6.A.2.a.2

Item:	Technical Information Requested:	GRL Entry:
Imaging cameras	(1) define its type: video, scanning, etc? (2) define its sensor, including number of pixels, or detectors per array, total number of pixels or detectors, as appropriate? (3) type of image intensifier tube if appropriate? (4) type of focal plane array if appropriate?	6.A.3.b
Incineration equipment	➔ Please use standard info sheet	C.10.4.6
Incubators (shakers/orbital)	(1) the aggregated flask volume? (2) technical & functional specifications?	B.3.3
Inertial measurement equipment	(1) provide full technical specifications? (2) intended use?	M.5.5.1
Inertial navigation systems (gimballed or strapdown) and inertial equipment	(1) is it designed for aircraft, land vehicle or spacecraft for attitude, guidance or control? (2) navigation error subsequent to normal alignment (expressed in nautical mile per hour at 50% CEP)? (3) is it specified to function at linear acceleration levels exceeding 10***g***?	7.A.3
Inorganic fibrous or filamentary materials	➔ Please use standard info sheet	1.C.10
Integrated circuits	(1) operating temperature range (minimum (K), and maximum (K))?	3.A.1.a.2
Isostatic presses (Hot)	(1) inside diameter of chamber cavity (mm)? (2) maximum pressure (MPa)? (3) maximum temperature?	2.B.4
Laminates	➔ Please use standard info sheet	1.A.2
Lasers, components and optical equipment	➔ Please use standard info sheet	6.A.5
Linear accelerometers	(1) are they designed for use in inertial navigation or guidance systems? (2) maximum bias stability (expressed in micro g) with respect to a fixed calibration value? (3) maximum scale factor stability (expressed in ppm) with respect to a fixed calibration value over a period of one year? (4) are the accelerometers specified to function at linear acceleration levels exceeding 100***g***?	7.A.1

Item:	Technical Information Requested:	GRL Entry:
Lubricants	(1) composition? (2) flash point (K)? (3) pour point (K)? (4) viscosity index?	1.C.6
Machine tools	➔ Please use standard info sheet	2.B.1
Magnetic materials	(1) initial relative permeability? (2) thickness (mm)?	1.C.3
Magnetometers	(1) define the type of magnetometer and its principle of operation? (2) noise level or sensitivity expressed in nT rms per square root Hz?	6.A.6
Maraging steel	➔ Please use standard info sheet	M.8.1.5 N.12
Mass spectrometers	(1) technical & functional specifications? (2) type? (3) construction of ion source? (4) unit resolution?	Various
Materials	(1) material composition? (2) does the material absorb electro-magnetic waves? (3) is the material intrinsically conductive? (4) tensile strength (N/m^2)? (5) compressive strength (N/m^2)? (6) absorption frequency range?	Various
Metal alloy powders	➔ Please use standard info sheet	1.C.2 1.C.11
Metal alloys	➔ Please use standard info sheet	1.C.2 1.C.11
Micro-encapsulation equipments (including interfacial polycondensors, phase separators, fluid bed coaters, etc.)	➔ Please use standard info sheet	B.11
Microprocessors	➔ Please use standard info sheet	3.A.1.a.3
Microwave equipment and components	(1) operating frequency (GHz)? (2) description of item?	3.A.1.b.3
Microwave test receiver	(1) frequency range (GHz)? (2) maximum frequency (GHz)?	3.A.2.f
Milling machines (machine tools)	➔ Please use standard info sheet	2.B.1.
Milling machines (size reduction)	(1) manufacturer's data sheets? (2) capacity? (3) particle size of finished product?	B.4.6
Nebulisers	➔ Please use standard info sheet	B.7.2

Item:	Technical Information Requested:	GRL Entry:
Network analyser	(1) frequency range (GHz)? (2) maximum frequency (GHz)?	3.A.2.e
Nickel or nickel alloys	➔ Please use standard info sheet	Chemical Equipment
Non-civil certified aircraft, all aero gas turbine engines, unmanned aerial vehicles, and parts and components	(1) are all of the aircraft for civil certified use? (2) are any of the aircraft engines and its specially designed parts or components for non-civil certified aircraft? (3) are any gas turbine engines or its parts and components designed for other than stationary power generation applications? (4) are any parts and components going into civil-certified aircraft?	9.A.12
Non-destructive test (NDT) equipment	(1) is the equipment specially designed for inspecting the integrity of rocket motors using non-destructive test (NDT) techniques other than planar X-ray or basic physical or chemical analysis?	9.B.7
Non-fluorinated polymeric substances	(1) composition?	1.C.8
Optical components	(1) define its material? (2) wavelength range of operation? (3) volume, diameter, thickness? (4) is it space qualified (weight, coating & composition)? (5) are the components partially transmissive?	6.A.4.b 6.A.5.e
Optical detectors	(1) specify the material? (2) specify the peak response wavelength? (3) specify the response time constant? (4) is it space qualified?	6.A.2.a
Optical fibre	(1) length (m)? (2) material type?	5.A.1.c
Organic fibrous or filamentary materials	➔ Please use standard info sheet	1.C.10
Oscilloscopes (digital and analogue)	➔ Please use standard info sheet	N.80
Particulate metals or materials	➔ Please use standard info sheet	1.C.2 1.C.11
Perforation charges	➔ Please use standard info sheet	1.C.12
Personal protection suits (biological)	(1) describe air handling system? (2) filter type?	B.2.6

Item:	Technical Information Requested:	GRL Entry:
Personal protection suits (chemical)	(1) indicate the type of chemical or medium heat the suit is designed to protect against?	C.10.4.8
Pesticides	➔ Please use standard info sheet	Chemical & Biological Lists
pH tranducers	➔ Please use standard info sheet	N.32
Pharmaceuticals	➔ Please use standard info sheet	Chemical & Biological Lists
Phased array antenna	(1) number of active elements? (2) capacity of electronic control of beam shaping? (3) will it be used for landing systems?	5.A.1.d
Pipes	(1) define the inner diameter (m)? (2) define the material of construction that come into direct contact with the fluids or gases being processed, to include any lining or coating. For those construction materials that are metal alloys (including stainless steel), give the percent of titanium, tantalum, zirconium, nickel, copper, chromium, and silver contained in the alloy? (3) state if the conduits, pipes or tubes are made of, or lined with: glass, vitrified or enamelled coatings, ceramics, ferrosilicons, graphite or carbon/graphite, fluoro-polymers?	C.10.4.3
Plates of materials	➔ Please use standard info sheet	C.10.4.1.6
Polymeric substances (non-fluorinated)	(1) composition?	1.C.8
Polymers made from vinylidene fluoride	(1) material form? (2) thickness (microns)?	1.A.1.b
Preforms	(1) specific tensile strength (m)? (2) specific modulus (m)? (3) glass transition temperature (K)? (4) composition?	1.C.10
Prepregs	(1) specific tensile strength (m)? (2) specific modulus (m)? (3) glass transition temperature (K)? (4) composition?	1.C.10
Pressure transducers	➔ Please use standard info sheet	N.32
Protection personal suit	(1) is it external ventilated? (2) is it semi or full protection?	C.10.4.8
Pumps	➔ Please use standard info sheet	C.10.4.2

Item:	Technical Information Requested:	GRL Entry:
Radar	(1) frequency and bandwidth of operation. Is the bandwidth tunable? (2) output power, peak and average, pulse width and energy per pulse? (3) antenna type? (4) coherent or non-coherent mode of operation? (5) capacity to operate simultaneously on more than two carrier frequencies? (6) capacity of operating in synthetic aperture? (7) Doppler signal processing? (8) capacity of aircraft detection and tracking? (9) capacity of height finding non cooperative targets? (10) is it specially designed for airborne (including balloon) operation? (11) pulse compression signal processing? (12) automatic target tracking data processing? (13) for non periodic scanning rates radars: capacity to calculate target velocity? (14) capacity to recognize, identify or classify targets? (15) capacity of data fusion from two or more radars?	6.A.8
Radiation detection / analyser equipment	(1) designed to measure / detect what? (2) how does it accomplish (1)?	3.A.2.h

Item:	Technical Information Requested:	GRL Entry:
Radio equipment	(1) frequency and bandwidth of operation? (2) adaptive techniques to suppress an interfering signal and level of suppression? (3) automatically predicts and selects frequencies and "total digital transfer rates" per channel to optimize the transmission? (4) incorporates a linear power amplifier configuration having a capability to support multiple signals simultaneously? If so provide the output power, frequency of operation and instantaneous bandwidth for which the output harmonic and distortion content is better than –80dB? (5) employs spread spectrum techniques, including frequency hopping techniques? Are the spreading codes programmable by the user? Provide the maximum value of the ratio of the total transmitted bandwidth to the bandwidth of the information channels?	5.A.1.b.2 5.A.1.b.3
Radio relay communications equipment, assemblies and components therefore	(1) frequency and bandwidth of operation?	5.A.1.b.5
Radioisotope detection / analyser equipment	(1) designed to measure / detect what? (2) how does it accomplish (1)?	3.A.2.h
Reactor vessels	(1) define the internal volume (m^3)? (2) define the material of construction that come into direct contact with the fluids or gases being processed, to include any lining or coating. For those construction materials that are metal alloys (including stainless steel), give the percent of titanium, tantalum, zirconium, nickel, copper, chromium, and silver contained in the alloy? (3) state if the reactor is made of, or lined with: glass, vitrified or enamelled coatings, ceramics, ferrosilicons, graphite or carbon/graphite, fluoropolymers?	C.10.4.1.1

Item:	Technical Information Requested:	GRL Entry:
Remote-controlled filling equipment	(1) describe the equipment, its mode of operation? (2) define the material of construction that come into direct contact with the fluids or gases being processed, to include any lining or coating. For those construction materials that are metal alloys (including stainless steel), give the percent of titanium, tantalum, zirconium, nickel, copper, chromium, and silver contained in the alloy? (3) state if the remote-controlled filling equipment, or parts of it are made of, or lined with: glass, vitrified or enamelled coatings, ceramics, ferrosilicons, graphite or carbon/graphite, fluoropolymers?	C.10.4.5
Respirator filters	➔ Please use standard info sheet	B.2.4
Scrubbers	(1) define the material of construction that come into direct contact with the fluids or gases being processed, to include any lining or coating. For those construction materials that are metal alloys (including stainless steel), give the percent of titanium, tantalum, zirconium, nickel, copper, chromium, and silver contained in the alloy? (2) state if the scrubber is made of, or lined with: glass, vitrified or enamelled coatings, ceramics, ferrosilicons, graphite or carbon/graphite, fluoropolymers. (3) describe the equipment, its mode of operation?	C.10.4.1.4
Sealants	(1) material of construction? (2) specially designed for what application?	1.A.1
Seals	➔ Please use standard info sheet	1.A.1

Item:	Technical Information Requested:	GRL Entry:
Separators for use in scrubbers	(1) define the material of construction that come into direct contact with the fluids or gases being processed, to include any lining or coating. For those construction materials that are metal alloys (including stainless steel), give the percent of titanium, tantalum, zirconium, nickel, copper, chromium, and silver contained in the alloy? (2) state if the separator is made of, or lined with: glass, vitrified or enamelled coatings, ceramics, ferrosilicons, graphite or carbon/graphite, fluoropolymers? (3 describe the equipment, its mode of operation?	C.10.4.1.4
Servovalves	➔ Please use standard info sheet	M.2.5.1
Sheets of materials	➔ Please use standard info sheet	C.10.4.1.6
Signal analysers	(1) frequency range (GHz)? (2) maximum frequency (GHz)?	3.A.2.c
Silver	(1) identify any chemical equipment, or part of the equipment, made of or lined with this material?	Chemical Equipment
Spin forming machines	(1) number of axes coordinated simultaneously? (2) rolling force (kN)? (3) capable of numerical or computer control?	2.B.9
Spray drying equipment	(1) technical specifications? (2) specially designed for what application? (3) particle size distribution?	B.4.4
Stainless steels - nitrogen stabilized duplex (N-DSS)	➔ Please use standard info sheet	M.8.1.6
Steels	➔ Please use standard info sheet	M.8.1.5 N.12
Superconductive electromagnetic sensors	(1) temperature of operation relative to the critical temperatures of their superconductive constituents? (2) frequency at which they detect electromagnetic field variations?	6.A.6.h

Item:	Technical Information Requested:	GRL Entry:
Superconductive electromagnets	(1) inner diameter of current carry winding (mm)? (2) magnetic induction rating (T)? (3) overall current density in winding (A/mm^2)? (4) energy discharge in first second (kJ)?	3.A.1.e.3
Superconductive solenoids	(1) inner diameter of current carry winding (mm)? (2) magnetic induction rating (T)? (3) overall current density in winding (A/mm^2)? (4) energy discharge in first second (kJ)?	3.A.1.e.3
Tanks (storage)	➔ Please use standard info sheet	C.10.4.1.5
Tantalum or tantalum alloys	(1) identify any chemical equipment, or part of the equipment, made of or lined with this material?	Chemical Equipment
Tape-laying, tow-placement machines	(1) number of axes? (2) specially designed for what application?	1.B.1.b
Telecom digital signal processing equipment	(1) does it employs functions providing voice coding? (2) if (1) provide the rate (bits/s)?	5.A.1.b.6
Telecommunication equipment	(1) describe the equipment? (2) describe the telecommunications equipment ? (3) does the corresponding telecommunication equipment employ digital techniques? (4) does it employs a laser? (5) does it employs optical switching? (6) does it employ QAM techniques? In which case, indicate the level? (7) does it employs common channel signalling?	5.A.1
Temperature transducer	➔ Please use standard info sheet	N.32
Test equipment specially designed for testing finished or unfinished semiconductor devices	(1) full technical specifications?	3.B.2
Titanium or titanium alloys	➔ Please use standard info sheet	N.14 Chemical Equipment

Item:	Technical Information Requested:	GRL Entry:
Towers (chemical equipment)	(1) define the inner diameter (m)? (2) define the material of construction that come into direct contact with the fluids or gases being processed, to include any lining or coating. For those construction materials that are metal alloys (including stainless steel), give the percent of titanium, tantalum, zirconium, nickel, copper, chromium, and silver contained in the alloy? (3) state if the tower or columns are made of, or lined with: glass, vitrified or enamelled coatings, ceramics, ferrosilicons, graphite or carbon/graphite, fluoro-polymers? (4) describe the equipment, its mode of operation?	C.10.4.3
Toxic gas detectors	➔ Please use standard info sheet	C.10.4.7
Transducers	(1) are the transducers specially designed for the direct measurement of the wall skin friction of the test flow with a stagnation temperature exceeding 833 K (560°C)?	9.B.8
Transducers (pressure, temperature)	➔ Please use standard info sheet	N.32
Transient recorders	(1) number of samples per second at a resolution of 10 bits or more? (2) continuous throughput rate (Gbit/s)?	3.A.2.a.5
Transmitters (absolute pressure)	➔ Please use standard info sheet	N.32
Travelling wave tubes	(1) operating frequency? (2) specially designed for what application?	3.A.1.b.1

Item:	Technical Information Requested:	GRL Entry:
Tubes	(1) define the inner diameter (m)? (2) define the material of construction that come into direct contact with the fluids or gases being processed, to include any lining or coating. For those construction materials that are metal alloys (including stainless steel), give the percent of titanium, tantalum, zirconium, nickel, copper, chromium, and silver contained in the alloy? (3) state if the conduits, pipes or tubes are made of, or lined with: glass, vitrified or enamelled coatings, ceramics, ferrosilicons, graphite or carbon/graphite, fluoro-polymers?	C.10.4.3
Ultra-HEPA filters	➔ Please use standard info sheet	B.2.4
Vaccine	➔ Please use standard info sheet	B.9
Valve seats	➔ Please use standard info sheet	1.A.1
Valves	➔ Please use standard info sheet	C.10.4.4
Valves (servo)	➔ Please use standard info sheet	M.2.5.1
Vessels (storage)	➔ Please use standard info sheet	C.10.4.1.5
Vibration monitor	(1) specifications including dimensions, weight, frequency ranges, acceleration resolution, accuracy and linearity? (2) specifications for any accelerometers associated with the equipment?	M.9.1
Vibration test equipment	(1) is the vibration test equipment capable of simulating flight conditions? (2) are these specially designed parts and components for the above listed equipment.	9.B.10
Vinylidene fluoride polymers	(1) material form? (2) thickness (microns)?	1.A.1.b
Welders	➔ Please use standard info sheet	M.2.1
X-ray and NDT inspection equipment.	(1) technical specifications?	M.2.1
X-ray tubes and heads	(1) peak electron energy? (2) figure of merit? (3) peak power?	N.65 M.2.1
Zirconium or zirconium alloys	➔ Please use standard info sheet	N.16 Chemical Equipment