

SUMMARY OF CHANGES

LIST OF DUAL-USE GOODS & TECHNOLOGIES AND MUNITIONS LIST

as of 8 December 2016

The following table outlines the changes made to the 2015 List of Dual-Use Goods & Technologies and Munitions List (WA-LIST (15) 1 Corr.1) which were approved by the December 2016 Plenary. The new version of the Control Lists is WA-LIST (16) 1. This table should be used as a reference only.

Category/Item	Comments
Category 1	
1.A.4.a.1., 1.A.4.b.1., 1.A.4.c.1., 1.A.4. Technical Notes	- "biological agents" - single quotes replaced by double quotes and new definition in Definitions List
1.A.4.a.2., 1.A.4.b.2., 1.A.4.c.2. 1.A.4. Technical Notes	- 'radioactive materials' – single quotes and local definition in TN 3 - "adapted for use in war" – deleted
1.A.4. Technical Notes	- TN 3 replaced with local definition of 'radioactive materials'
1.A.7. chapeau	- "energetic materials" – double quotes – editorial change
1.B.1.b. Technical Note 1.B.1.g. Technical Note	- parameters changed – exact conversion of Imperial units
1.B.1. Technical Notes	- TN 2 amended to include dry powder impregnated bands
1.C.7.	- entry rewritten, including sub-entries a. to f. to capture only high-end materials
1.E.2.c.2., Note	- amended, including double quotes around "technology"
1.E.2.f.	- ref to 1.C.7.d. deleted – consequential change
Annex – "Explosives"	- new entry 50 – high performance explosive
Category 2	
2.A.1.a.	- 'rings' and 'rolling elements' – single quotes and local definition in new Technical Notes 1 and 2 (ISO ref included in TNs)
2.B.1.b.2., Note	- deleted ('parallel mechanism machine tools')
2.B.1.b.2.d.	- entry and Technical Note deleted
2.B.5.	- chapeau amended
2.B.7.a., 2.E.3.a., 2.E.3.d.	- spelling of program corrected
2.E.3.f., N.B.	- "technology" – double quotes
Table – Deposition Techniques – Notes	- Note 10 amended - Note 17 - «specially designed to» replaced with «for depositing»
Table – Deposition Techniques – SOU	- "Technology" replaced with Technical information in the chapeau of paras. 1 to 5

Category/Item	Comments
Category 3	
3.A. Notes 1 and 2	- ref to 3.A.1.a.13. replaced by 3.A.1.a.14. – consequential changes
3.A.1.a. Note 2	- new entry for "MMICs"
3.A.1.a.2.	- chapeau amended – introduction of MRAMs
3.A.1.a.5.a.	- parameters modified in sub-paras. 1 to 5; - new N.B. - Technical Notes 6 and 7 amended
3.A.1.a.7.	- new N.B. following the Note
3.A.1.a.14.	- new entry
3.A.1.b. Technical Notes, 3.A.1.b.1.	- rewritten
3.A.1.b.2.	- chapeau modified, including new defined term "MMIC" and new N.B.
3.A.1.b.4.f.	- entry deleted - N.B.1 modified; new N.B.2 - Note 3 deleted
3.A.1.b.8.	- chapeau modified – consequential change
3.A.1.b.9.	- chapeau modified
3.A.1.b.11.	- parameters in sub-paras a., b., d. and e. modified - sub-paras c. and f. deleted
3.A.1.b.12.	- new entry, including Technical Notes 1 to 7
3.A.1.f.	- amended to include specially designed components
3.A.2.c.4.b.	- amended to include new sub-paras 1 and 2 - ref updated in TNs 1 and 2 for 3.A.2.c.4.b.1.
3.A.2.c.5.	- deleted
3.B.1.a.1.	- amended
3.C.1.d. Note	- amended to decontrol 3 additional non-sensitive substrates
3.E.1. Notes 1 and 2	- amended
3.E.2. Notes 2 and 3	- amended
3.E.3.g.	- amended – consequential change
Category 4	
4.A.3.b.	- performance parameter amended to take into account market evolution
4.A.5., 4.D.4.	- chapeau amended for "intrusion software"
4.D.1.b.1.	- performance parameter amended to take into account market evolution
4.E.1.b.	- chapeau amended
4.E.1.b.1.	- performance parameter amended to take into account market evolution
Category 5 – Part 1	
5.A.1.b.6.	- performance parameter modified to take into account market evolution
5.B.1.b.2.c.	- deleted
5.E.1.b.1.	- "required" added after "Technology"
5.E.1.c.1.	- deleted
5.E.1.c.2.c.	- deleted
5.E.1.c.2.e. Note	- amended
5.E.1.c.4.b. Note	- amended
5.E.1.d.	- amended – consequential change

Category/Item	Comments
Category 5 – Part 2	- entire Category restructured
Category 6	
6.A.1.a.1.a.1.d.	- "accuracy" – double quotes - editorial
6.A.1.a.1.a.2.b.4.	- "accuracy" – double quotes - editorial
6.A.1.a.2.c.	- "user-accessible programmability" – hyphen - editorial
6.A.1.a.2.d.	- new N.B. to refer to 7.A.3. for inertial systems
6.A.1.a.2.f.	- "user-accessible programmability" – hyphen - editorial
6.A.3.b.4. Note 3.b.1.	- ratio /pixel deleted
6.A.5.a.6.a.	- parameter modified – power threshold increased to adapt to market practice
6.A.5.a.8.	- amended – new wavelength range created
6.A.5.a.9. and 10.	- new entries – new wavelength range created
6.A.5.b.6.a.	- «the» added - editorial
6.A.5.b.8.	- amended – new wavelength range created
6.A.5.b.9. and 10.	- new entries – new wavelength range created
6.D.3.a.	- "real-time processing" – hyphen in sub-paras 1 to 5 - editorial
6.D.3.f.	- "real-time processing" – hyphen in sub-paras 3 and 4 - editorial
6.D.3.h.1.	- spelling of programme changed to program
6.E.3.d.1.	- amended
6.E.3.d.2.	- amended
Category 7	
7.D.3.e.	- refs to Category 7 amended
7.D.4.	- refs to Category 7 amended in chapeau
7.E.3. Note	- amended
7.E.4.b.5. Notes 1 and 2	- "Development" deleted
7.E.4.b. Note	- "technology" – double quotes
Category 8	
8.A.2.j.3.	- "Fuel cell" – double quotes - editorial
8.C.1. Technical Note	- "matrix" – double quotes - editorial
Category 9	
9.A.1.a.	- "technologies" – double quotes
9.A.4.f.	- comma deleted after equipment and added after "spacecraft"
9.B.2.b.	- amended
9.B.9.	- amended including new sub-paras. a. and b. and a new Note
9.E.3.a.1.	- new Technical Note
9.E.3.a.2.a.	- 'Thermally decoupled liners' – single quotes - new Technical Note 1
9.E.3.i. Note	- amended

Category/Item	Comments
Sensitive List	
1.C.7.c.	- ref to 1.C.7.d. deleted - Ceramic-ceramic replaced by Ceramic-"matrix"
4.D.1.	- parameter modified
4.E.1.	- parameter modified
6.A.1.a.2.c.	- "user-accessible programmability" – hyphen - editorial
6.A.1.a.2.f.	- "user-accessible programmability" – hyphen - editorial
6.A.6.d.3.	- "Magnetic gradiometers" – double quotes - editorial
6.A.6.e.	- "magnetometers" – double quotes - editorial
9.E.3.a.1.	- deleted
9.E.3.a.1. to 5. and 9.E.3.a.8.	- references and text modified
9.E.3.h.	- new entry
Very Sensitive List	
6.D.1.	- reference to 6.A.8.deleted
9.E.3.a.1.	- amended
9.E.3.a.3.a.	- amended
Munitions List	
ML7	- chapeau amended
ML7.a.	- amended to delete "adapted for use in war"
ML8.a.41.	- new entry – high-performance explosive
ML8.c.3.	- amended
ML8.h.	- new entry for reactive materials
ML18 Note	- sub-paras d., e., g. and h. amended – editorial – double quotes
ML19 Note 2.k.	- "Space-qualified" – hyphen - editorial
Definitions	
"Adapted for use in war"	- deleted
"Authentication"	- new definition
"Biological agents"	- new definition
"Fly-by-light system"	- "aircraft" – double quotes
"Fly-by-wire system"	- "aircraft" – double quotes
"Microprogramme"	- spelling changed to "microprogram" and definition amended
"Monolithic Microwave Integrated Circuit" ("MMIC")	- new definition
"Multilevel security"	- deleted
"Programme"	- spelling changed to "program"
"Real-time bandwidth"	- definition amended
"Real-time processing"	- ref to Cat 2 and 7 deleted
"Run-out"	- hyphen added – editorial
"Software"	- spelling of programme changed to program
"Stability"	- SOU added to definition
"Three dimensional integrated circuit"	- definition amended
"User-accessible programmability"	- spelling of programme changed to program

Category/Item	Comments
Definitions cont.	
"Active pixel" "Aircraft" "Airship" "Electronic assembly" "Fibrous or filamentary materials" "Frequency hopping" "Required" "Spacecraft" "Unmanned aerial vehicle"	- references to Categories or ML modified
Acronyms and Abbreviations	- entire list of acronyms and abbreviations updated