

DO-178C/ED-12C Table A-3 Verification of Outputs of Software Requirements Process

DO-178C/ED-12C (Core) Annex A				DO-333 Formal Methods (FM)		DO-331 Model Based (MB)		DO-332 Object Oriented (OO)	
Objective	Description	Objective Reference	Output/Data Reference	Objective Reference	Output/Data Reference	Objective Reference	Output/Data Reference	Objective Reference	Output/Data Reference
A-3 #1	High-level requirements comply with system requirements.	6.3.1.a, 6.3.1	11.14	FM.6.3.a, FM.6.3.1.a, FM.6.3.1	-	MB.6.3.1.a, MB.6.3.1, MB.6.8.1	MB.11.14	-	OO.11.14
A-3 #2	High-level requirements are accurate and consistent.	6.3.1.b, 6.3.1	11.14	FM.6.3.b, FM.6.3.c, FM.6.3.1.b, FM.6.3.1	-	MB.6.3.1.b, MB.6.3.1, MB.6.8.1	MB.11.14	-	OO.11.14
A-3 #3	High-level requirements are compatible with target computer.	6.3.1.c, 6.3.1	11.14	FM.6.3.d, FM.6.3.1.c, FM.6.3.1	-	MB.6.3.1.c, MB.6.3.1	MB.11.14	-	OO.11.14
A-3 #4	High-level requirements are verifiable.	6.3.1.d, 6.3.1	11.14	FM.6.3.e, FM.6.3.1.d, FM.6.3.1	-	MB.6.3.1.d, MB.6.3.1, MB.6.8.1	MB.11.14	-	OO.11.14
A-3 #5	High-level requirements conform to standards.	6.3.1.e, 6.3.1	11.14	FM.6.3.f, FM.6.3.1.e, FM.6.3.1	-	MB.6.3.1.e, MB.6.3.1	MB.11.14	-	OO.11.14
A-3 #6	High-level requirements are traceable to system requirements.	6.3.1.f, 6.3.1	11.14	FM.6.3.g, FM.6.3.1.f, FM.6.3.1	-	MB.6.3.1.f, MB.6.3.1	MB.11.14	-	OO.11.14
A-3 #7	Algorithms are accurate.	6.3.1.g, 6.3.1	11.14	FM.6.3.h, FM.6.3.1.g, FM.6.3.1	-	MB.6.3.1.g, MB.6.3.1, MB.6.8.1	MB.11.14	-	OO.11.14
A-3 #FM8	Formal analysis cases and procedures are correct.			FM.6.3.6.a, FM.6.3.6.b, FM.6.3.6	-				
A-3 #FM9	Formal analysis results are correct and discrepancies explained.			FM.6.3.6.c, FM.6.3.6	-				
A-3 #FM10	Requirements formalization is correct.			FM.6.3.i	-				
A-3 #FM11	Formal method is correctly defined, justified, and appropriate.			FM.6.2.1, FM.6.2.1.a, FM.6.2.1.b, FM.6.2.1.c	-				
A-3 #MB8	Simulation cases are correct.					MG.6.8.3.2.a, MB.6.8.1, MB.6.8.3.2	MB.11.14		
A-3 #MB9	Simulation procedures are correct.					MG.6.8.3.2.b, MB.6.8.1, MG.6.8.3.2	MB.11.14		

A-3 #MB10	Simulation results are correct and discrepancies explained.					MB.6.8.3.2.c, MB.6.8.1, MB.6.8.3.2	MB.11.14		
-----------	---	--	--	--	--	--	----------	--	--