

Team	AE
Device	Engineered Safety Headset
Test doc	TS01
Location	Computer Laboratory
Test LEAD	Draco Helios
Test co-lead	Nicholas Cavanagh
Test STAG	TS01
Observer	

Approvals for testing

U5050N

2.0

ENGINEERING VALIDATION TESTS

HAZARD  
and  
RISK  
ASSESSMENT

Name of analysis	Description of test	Expected	Observed	Date	Test 21 in related topics	stored energy	sharp edges	electricity	vibration	radiation	physical agents	Description	Severity	Probability	Corrective or Control Action	Action verified	Implementation Date
VAL 1	Drop Test	No failure occurs				No	Yes	Yes	No	No	No	Danger of flying objects	Medium	High			
VAL 2	Thermal Test Part A	The AH headset will be run to its maximum capacity to demonstrate its baseline temperature				No	No	Yes	No	No	No	Danger of fire	Medium	Low			
VAL 3	Thermal Test Part B	The AH headset will be placed in the wind tunnel to find the optimal air speed required to bring the temperature to 30C				No	No	Yes	No	No	No	Danger of flying objects and burning yourself	Medium	Low	Proper protective equipment worn during test. Fire extinguisher is nearby.		
VAL 4	Vibration Test	Vibrate the AH headset in a vibration machine and observe whether the hardware comes loose	No hardware comes loose			No	No	Yes	No	No	No	Danger of flying objects	Medium	Medium			

PRE-OPERATION CHECKS FOR VAL 1

Name of Task	Description	Checked	Initials	Date
SFT1	Test Brief			
SFT2	Personal Protective Equipment			
SFT3	Projectile			
DEVI	Structural			
DEVI	Assembly - BOM			

INSPECTION	
INS1	Device Inspection
Engineer or Staff signature:	

PRE-OPERATION CHECKS FOR VAL 2

Name of Task	Description	Checked	Initials	Date
SFT1	Test Brief			
SFT2	Fire			
DEVI	Structural			
DEVI	Assembly - BOM			
SYSTEM INTEGRITY				
SYS1	Temperature			

INSPECTION	
INS1	Device Inspection
Engineer or Staff signature:	

PRE-OPERATION CHECKS FOR VAL 3

Name of Task	Description	Checked	Initials	Date
SFT1	Test Brief			
DEVI	Structural			
DEVI	Assembly - BOM			
DEVI	Fasteners			
SYSTEM INTEGRITY				
SYS1	Temperature			
SYS2	Wind Tunnel			
SYS3	Kill Switch			

INSPECTION	
INS1	Device Inspection
Engineer or Staff signature:	

PRE-OPERATION CHECKS FOR VAL 4

Name of Task	Description	Checked	Initials	Date
SFT1	Test Brief			
SFT2	Personal protective equipment			
DEVI	Structural			
DEVI	Assembly - BOM			
DEVI	Fasteners			
SYSTEM INTEGRITY				
SYS1	Vibration			
SYS2	Kill Switch			

INSPECTION	
INS1	Device Inspection
Engineer or Staff signature:	

PRE-TEST

Objective	Description of Test	Checked	Initials	Date
ORS1	Baseline Temperature			

COMMENTS

References  
1. MIL-STD-883C  
2. Safety with Machinery, John Riley and Dick Pearce, 2006