Schedule of Accreditation

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Penny and Giles Aerospace Ltd, an operating division of Curtiss-Wright Controls

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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
AEROSPACE EQUIPMENT AND MATERIALS ELECTRICAL/ELECTRONIC PRODUCTS ELECTROMECHANICAL DEVICES INSTRUMENTS INDICATION/RECORDING MARINE EQUIPMENT MECHANICAL PRODUCTS MOTOR VEHICLE ACCESSSORIES AND COMPONENTS	**ENVIRONMENTAL TESTS** (Non-explosive items) **CLIMATIC** **Single Parameters** HIGH TEMPERATURE Max Temp: +180°C Max chamber size: 1.02 m x 0.67 m x 0.86 m	BS EN IEC 60068-2-2:2025 BS EN 60068-2-2: 2007 BS EN 60068-2-2:1993 RTCA DO-160G:2010 + CN1:2014 RTCA DO-160F:2007 RTCA DO-160E:2004 RTCA DO-160D:4:97 RTCA DO-160C:1989 BS 2011:B:1977(1980) Tests Ba, Bb IEC 68-2-2:1974(1976) Subsection 3.2:1970(1983) DEF STAN 07-55:1975 Test B1 DEF STAN 00-035 Part 3 Issue 6 & Issue 7 Test CL2 MIL-STD 202G:2002 Method 108A MIL-STD 202H:2015 MIL-STD 810F:2000 MIL STD 810G:2008 Method 501.5 MIL STD 810H:2019 CN1 Method 501.7 Lloyds No 1: Section 17:1990

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
As listed on Page 1	**ENVIRONMENTAL TESTS** (Non-explosive items) (cont'd) **CLMATIC** **Single Parameters** (cont'd) LOW TEMPERATURE MIN TEMP: -70°C Max chamber size: 1.02 m x 0.67 m x 0.86 m	BS EN IEC 60068-2-1 :2025 BS EN 60068-2-1:2007 BS EN 60068-2-1:1994 BS 2011:A:1990 Tests Aa, Ab IEC 68-2-1:1990 Subsection 3.2:1970(1983) DEF STAN 07-55:1975 Test B4 DEF STAN 00-035 Part 3 Issue 6 & Issue 7 Test CL5 MIL-STD 810F:2000 Method 502.4 MIL-STD 810G:2008 Method 502.5 MIL-STD 810H:2019 CN1 Method 502.7 RTCA DO-160C:4:1989 Lloyds No 1: Section 18:1990 RTCA DO-160 D:4:1997 RTCA DO-160E:4:2004 RTCA DO-160F:2007 RTCA DO-160G:2010 + CN1:2014
	TEMPERATURE CHANGE (Thermal Shock) Max temp: +175°C Min temp: -65°C Max chamber size: 1.02 m x 0.67 m x 0.86 m	BS 2011:N:1985(1987) Tests Na, Nb IEC 68-2-14:1984 Subsection 3.15:1978(1983) DEF STAN 07-55:1975 Test B14 DEF STAN 00-035 Part 3 Issue 6 & Issue 7 Test CL14 MIL-STD 202G:2002 MIL-STD 202H:2015 Methods 107F and 107G MIL STD 810F:2000 Method 503.4 MIL STD 810G:2008 Method 503.5 MIL STD 810H:2019 CN1 Method 503.7 RTCA DO-160C:5:Cat A:1989 RTCA DO-160D:5:Cat A:1997 RTCA DO-160E:5:Cat A:2004 RTCA DO-160E:10 Cat Y:2004 RTCA DO-160F:Cat A:2007 RTCA DO-160G:2010 + CN1:Cat A: 2014 IEC 60068-2-14:2009 IEC 60068-2-14:2023

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
As listed on Page 1	**ENVIRONMENTAL TESTS** (Non-explosive items) (cont'd) **CLIMATIC** (cont'd) HIGH HUMIDITY - steady state Temp range: +20°C to +85°C Humidity range: 10% rh to 98% rh Max Chamber size: 1.02 m x 0.67 m x 0.86 m	BS EN 60068-2-78:2025 Test Cab BS EN 60068-2-78 2002 Test Cab BS EN 60068-2-78 2013 Test Ca RTCA DO-160D:6:1997 RTCA DO-160F:2007 BS 2011:Ca:1977(1987) BS 2011:Cb:1990 IEC 68-2-3:1969 IEC 68-2-56:1988 BS 3G100:Part 2 Subsection 3.15:1970(1983) DEF STAN 07-55:1975 Test B7 DEF STAN 00-035 Part 3 Issue 6 & Issue 7 Test CL7 MIL-STD 202G:2002 Method 103B MIL-STD 202H:2015 RTCA DO-160C:6.0:1989 Lloyds No 1:Section 14:1990 RTCA DO-160E:6:2004 RTCA DO-160F:2007 RTCA DO-160G:2010 + CN1:2014
	HIGH HUMIDITY - cyclic Temp range: +20°C to +85°C Humidity range: 10% rh to 98% rh Max chamber size: 1.02 m x 0.67 m x 0.86 m	BS 2011:Db:1981(1987) IEC 68-2-30:1980 BS 2011:Z/AD:1977 IEC 68-2-38:1974 BS 3G100:Part 2 Subsection 3.15:1970(1983) DEF STAN 07-55:1975 Test B6, B8 DEF STAN 00-035 Part 3 Issue 6 & Issue 7 Test CL6 MIL-STD 810F:2000 Method 507.4 MIL-STD 810G:2008 Method 507.5 MIL-STD 810H:2019 CN1 Method 507.6 RTCA DO-160C:6.0:1989 Lloyds No 1:Section 15:1990 RTCA DO-160D:6:1997 RTCA DO-160F:2007 RTCA DO-160G:2010 + CN1:2014 BS EN 60068-2-30:2025 Test Db BS EN 60068-2-30:2005 Test Db BS EN 60068-2-38:1999 Test Z/AD BS EN 60068-2-38:2009 Test Z/AD BS EN 60068-2-38:2021 Test Z/AD

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
As listed on Page 1	**ENVIRONMENTAL TESTS** (Non-explosive items) (cont'd) **CLIMATIC** (cont'd)	
	LOW PRESSURE Min pressure: 5.6 kPa (Max equiv altitude: 19,812 m, 65,000 ft) Max chamber size: 0.6 m x 0.6 m x 0.8 m	IEC 60068-2-13:2021 BS EN 60068-2-13 :1999 BS 2011:M:1984 IEC 68-2-13:1983 Subsection 3.2:1970 DEF STAN 07-55:1975 Test B21 DEF STAN 00-035 Part 3 Issue 6 & Issue 7 Test CL11 MIL-STD 202G:2002 Method 105C MIL STD 202H:2015 MIL-STD 810F:2000 Method 500.4 MIL-STD 810G:2008 Method 500.5 MIL-STD 810H:2019 CN1 Method 500.6 RTCA DO-160D:4.6.1 1997 RTCA DO-160C:4.6.1 1989 RTCA DO-E:4.6.1:2004 RTCA DO-160F:4.6.1:2007 RTCA DO-160G:2010 + CN1:2014
	SALT, MIST/CORROSION/FOG Max chamber size: (spraying) 0.9 m x 0.5 m x 0.5 m Max chamber size: (storage) 0.6 m x 0.6 m x 0.8 m	BS 2011:Ka:1982 IEC 60068-2-11:2021 IEC 68-2-11:1981 BS 2011:Kb:1987 IEC 68-2-52:1984 BS 3G100:Part 2 – 3.8:1972(1983) DEF STAN 07-55:1975 Test C2 DEF STAN 00-035 Part 3 Issue 6 & Issue 7 Test CN2 MIL-STD 202G:2002 Method 101D MIL-STD 202H:2015 MIL-STD 810F:2000 Method 509.4 MIL-STD 810G:2008 Method 509.5 MIL-STD 810H:2019 CN1 Method 509.7 RTCA DO-160C:14.0 Cat S:1989 Lloyds No 1:Section 16:1990 RTCA DO-160D:14.0:1997 RTCA DO-160E:14.0:2004 Cat S&T RTCA DO-160F:2007 RTCA DO-160G:2010 + CN1:2014 BS EN 60068-2-11:1999 Ka BS EN 60068-2-52:1996 Kb BS EN 60068-2-52:2018 BS EN ISO 9227:2022 BS EN ISO 9227:2017

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
As listed on Page 1	**ENVIRONMENTAL TESTS** (Non-explosive items) (cont'd) **DYNAMIC**	
	VIBRATION - sinusoidal (ambient temperature) Freq range: 3 to 3000 Hz Peak thrust: 35.6 kN Max pk/pk displacement: ±25 mm	BS EN 60068-2-6 :2008 BS EN 60068-2-6:1996 BS 2011:Fc:1983 IEC 68-2-6:1982 BS 3G100:Part 2 Subsection 3.1:1969(1983) DEF STAN 07-55:1975 Test A1 DEF STAN 00-035 Part 3 Issue 6 & Issue 7Test M1 MIL-STD 202G:2002 Methods 201A, 204D MIL-STD-202H:2015 MIL-STD 810F:2000 Method 514.5 MIL-STD 810G:2008 Method 514.6 MIL-STD 810H:2019 CN1 Method 514.8 RTCA DO-160C:8.0:1990 RTCA DO-160D:8.0:1997, CN1 RTCA DO-160E:8:2004 RTCA DO-160F:2007 RTCA DO-160G:2010 + CN1:2014
	VIBRATION - random (ambient temperature) Freq range: 3 to 3000 Hz Max RMS: 35.6 kN Max pk/pk displacement: ±25 mm	BS 2011:F:1973(1984) Tests Fd, Fda, Fdb, Fdc IEC 68-2-34 to IEC 68-2-37 inc:1973 BS EN60068-2-64:2019 BS EN 60068-2-64:2008 BS EN 60068-2-64:1995 BS 3G100:Part 2 Subsection 3.1:1969(1983) DEF STAN 07-55:1975 Test A2 DEF STAN 00-035 Part 3 Issue 6 & Issue 7 Test M1 MIL-STD 202G:2002 Method 214A MIL-STD 202H:2015 MIL-STD 810F:2000 Method 514.5 MIL-STD 810G:2000 Method 514.6 MIL-STD 810H:2019 CN1 Method 514.8 RTCA DO-160C:8.0:1990 RTCA DO-160D:8.0:1997 RTCA DO-160E:8.0:2004 RTCA DO-160F:2007 RTCA DO-160G:2010 + CN1:2014

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
As listed on Page 1	**ENVIRONMENTAL TESTS** (Non-explosive items) (cont'd) **DYNAMIC** (cont'd) VIBRATION - sine on random (ambient temperature) Freq range: 3 to 3000 Hz Max pk/pk displacement: ±25 mm VIBRATION - Gunfire (ambient temperature) Freq range: 3 to 3000 Hz Max pk/pk displacement: ±25 mm SHOCK (half sine, sustained, terminal peak sawtooth) Max severity: 50 g Pulse width: 6 ms to 20 ms (g dependent) Max item mass: 100 kg Max item size: 0.9 m x 0.9 m x 0.9 m	 RTCA DO-160D:8.0:1997 MIL-STD 810F:2000, Method 514.5 MIL-STD 810G:2008, Method 514.6 MIL-STD 810H:2019, CN1 Method 514.8 RTCA DO-160E:8:2004 RTCA DO-160F:2007 MIL-STD 810F, Method 514.5 MIL-STD 810F, Method 519.5, (cl 2.2.2 d) MIL-STD 810G:2008 Method 519.6 MIL-STD 810H:2019 CN1 Method 519.8 BS EN 60068-2-27 :2007 BS EN 60068-2-27:1993 (Withdrawn) BS 2011:Ea:1988 IEC 68-2-27:1987 DEF STAN 07-55:1975 Test A3 DEF STAN 00-035 Part 3 Issue 6 & Issue 7 Test M3 MIL-STD 810F:2000 Method 516.5 MIL-STD-810G:2008 Method 516.6 MIL-STD-810H:2019 CN1 Method 516.8 MIL-STD 202G:2002 Method 213B MIL-STD-202H:2015 RTCA DO-160C:7.0:1989 RTCA DO-160D:7.0:1997 RTCA DO-160E:7.0:2004 RTCA DO-160F:2007 RTCA DO-160G:2010 + CN1:2014

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
As listed on Page 1	**ENVIRONMENTAL TESTS** (Non-explosive items) (cont'd) **DYNAMIC** (cont'd) BUMP (ambient temperature) Max item mass: 100 kg Max item size: 0.9 m x 0.9 m x 0.9 m Max severity: 40 g ACCELERATION - steady state Max accel: 25 g Max item mass: 15 kg Max item size: 0.36 m x 0.36 m x 0.36 m BENCH HANDLING Angles up to 45°	 BS EN 60068-2-29:1993 (Withdrawn) BS 2011:Eb:1987 IEC 68-2-29:1987 DEF STAN 07-55:1975 Test A5 DEF 133:Part 3 Subsection 7.0:1963 RTCA DO-160D:1997 MIL-STD 810F, Notice 2 RTCA DO-160E:2004 RTCA DO-160F:2007 BS EN 60068-2-7:1993 BS 2011:Ga:1984 IEC 68-2-7:1983 BS 3G100:Part 2 Subsection 3.6:1972(1983) DEF STAN 07-55:1975 Test A6 DEF STAN 00-035 Part 3 Issue 6 & Issue 7 Test M13 MIL-STD 202G:2002 Method 212A MIL-STD-202H:2015 MIL STD 810F:2000 Method 513.5 MIL STD 810G:2008 Method 513.6 MIL STD 810H:2019 CN1 Method 513.8 RTCA DO-160D:7.3.2:1997 RTCA DO-160C:1990 RTCA DO-160E:2004 RTCA DO-160F:2007 RTCA DO-160G:2010 + CN1:2014 MIL STD 810G (Procedure VI) MIL STD 810H CN1 (Procedure VI)
END		