

Appendix G Commercial Manufacturers of Fire Test Equipment

The following companies (as reported to us) manufacture test and/or calibration equipment used to conduct the fire tests described in this Handbook.

Table G-1. Commercial Manufacturers of Fire Test Equipment

EQUIPMENT DESCRIPTION	SUPPLIER/MANUFACTURER
<p>Test Chamber used for tests described in:</p> <p>Chapter 1: Vertical Bunsen Burner Test for Cabin and Cargo Compartment Materials;</p> <p>Chapter 2: 45-Degree Bunsen Burner Test for Cargo Compartment Liners and Waste Stowage Compartment Materials;</p> <p>Chapter 3: Horizontal Bunsen Burner Test for Cabin, Cargo Compartment, and Miscellaneous Materials;</p> <p>Chapter 4: 60-Degree Bunsen Burner Test for Electric Wire;</p> <p>Chapter 18: Recommended Procedure for the 4-Ply Horizontal Flammability Test for Aircraft Blankets.</p>	<p>Atlas Material Testing Technology 1500 Bishop Court Mount Prospect, IL 60056 Phone: 773-327-4520/Fax: 773-327-5787 Email: info@atlas-mts.com URL: http://www.atlas-mts.com</p> <p>Concept Equipment Ltd. Unit D1, Rustington Trading Estate, Dominion Way West Sussex, BN16 3HQ, United Kingdom Phone: 44 (0) 1903 784336 Email: fire@concept-e.co.uk URL: www.concept-e.co.uk</p> <p>Fire Testing Technology Limited Charlwoods Road, East Grinstead, West Sussex, RH19 2HL, United Kingdom Tel: +44 (0)1342 323600 Fax:+44 (0)1342 323608 E-mail: sales@fire-testing.com URL: www.fire-testing.com</p> <p>GBH International 2 Friars Lane Mill Valley, CA, 94941 Phone: 415-388-8278/FAX: 415-795-9618 Email: sales@gbhinternational.com URL: www.gbhinternational.com</p> <p>Govmark 96-D Allen Boulevard Farmingdale, NY 11735-5626 Phone: 631-293-8944/Fax: 631-293-8956 Email: info@govmark.com URL: http://www.govmark.com</p> <p>Deatak 4004 W. Dayton Street McHenry, IL 60050 Phone: 815-322-2013/Fax: 815-679-6544 Email: instruments@deatak.com URL: www.deatak.com</p>

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<p>Test Chamber used for tests described in:</p> <p>Chapter 1: Vertical Bunsen Burner Test for Cabin and Cargo Compartment Materials;</p> <p>Chapter 2: 45-Degree Bunsen Burner Test for Cargo Compartment Liners and Waste Stowage Compartment Materials;</p> <p>Chapter 3: Horizontal Bunsen Burner Test for Cabin, Cargo Compartment, and Miscellaneous Materials;</p> <p>Chapter 4: 60-Degree Bunsen Burner Test for Electric Wire;</p> <p>Chapter 18: Recommended Procedure for the 4-Ply Horizontal Flammability Test for Aircraft Blankets.</p>	<p>Custom Scientific Instruments, Inc. 1125 Conroy Place Forks Industrial Park IV Easton, PA 18040 Phone: 610-923-6500 Fax: 610-923-6543 URL: http://www.csi-instruments.com</p> <p>MarlinEngineering, Inc. 2200 Division Street, Suite A Bellingham, WA 98226 Phone: 360-671-0155 Email: sales@marlinengineer.com URL: http://www.marlinengineer.com</p> <p>Thermtech Industries LLC 8526 South Elwood Tulsa, OK 74132 Phone: 918-630-3659 Email: sales@thermtechindustries.com URL: http://www.thermtechindustries.com</p> <p>Ineltec – Equipos de simulación y ensayo, S.L. C/Metal·lurgia, 8 - Pol. Ind. Les Goules 08551 Tona – Barcelona, Spain Phone: +34 938 601 500 E-mail: ineltec@ineltec.es URL: www.ineltec.es (excluding test chamber described in Chapter 4).</p>
<p>Test Apparatus described in:</p> <p>Chapter 4: 60-Degree Bunsen Burner Test for Electric Wire.</p>	<p>Ineltec – Equipos de simulación y ensayo, S.L. C/Metal·lurgia, 8 - Pol. Ind. Les Goules 08551 Tona – Barcelona, Spain Phone: +34 938 601 500 E-mail: ineltec@ineltec.es URL: www.ineltec.es</p>
<p>Rate of Heat Release Apparatus described in:</p> <p>Chapter 5: Heat Release Rate Test for Cabin Materials.</p>	<p>Fire Testing Technology Limited Charlwoods Road, East Grinstead, West Sussex, RH19 2HL, United Kingdom Tel: +44 (0)1342 323600 Fax:+44 (0)1342 323608 E-mail: sales@fire-testing.com URL: www.fire-testing.com</p> <p>GBH International 2 Friars Lane Mill Valley, CA, 94941 Phone: 415-388-8278/FAX: 415-795-9618 Email: sales@gbhinternational.com URL: www.gbhinternational.com</p>

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<p>Rate of Heat Release Apparatus described in:</p> <p>Chapter 5: Heat Release Rate Test for Cabin Materials</p>	<p>Concept Equipment Ltd. Unit D1, Rustington Trading Estate, Dominion Way West Sussex, BN16 3HQ, United Kingdom Phone: 44 (0) 1903 784336 Email: fire@concept-e.co.uk URL: www.concept-e.co.uk</p> <p>Govmark 96-D Allen Boulevard Farmingdale, NY 11735-5626 Phone: 631-293-8944/Fax: 631-293-8956 Email: info@govmark.com URL: http://www.govmark.com</p> <p>Custom Scientific Instruments, Inc. 1125 Conroy Place Forks Industrial Park IV Easton, PA 18040 Phone: 610-923-6500 Fax: 610-923-6543 URL: http://www.csi-instruments.com</p> <p>MarlinEngineering, Inc. 2200 Division Street, Suite A Bellingham, WA 98226 Phone: 360-671-0155 Email: sales@marlinengineer.com URL: http://www.marlinengineer.com</p> <p>Deatak 4004 W. Dayton Street McHenry, IL 60050 Phone: 815-322-2013/Fax: 815-679-6544 Email: instruments@deatak.com URL: www.deatak.com</p> <p>Ineltec – Equipos de simulación y ensayo, S.L. C/Metal·lurgia, 8 - Pol. Ind. Les Goules 08551 Tona – Barcelona, Spain Phone: +34 938 601 500 E-mail: ineltec@ineltec.es URL: www.ineltec.es</p>
<p>Smoke Density Chamber described in:</p> <p>Chapters 6: Smoke Test for Cabin Materials; Chapter 19: Smoke Test for Insulated Aircraft Wire.</p>	<p>Concept Equipment Ltd. Unit D1, Rustington Trading Estate, Dominion Way West Sussex, BN16 3HQ, United Kingdom Phone: 44 (0) 1903 784336 Email: fire@concept-e.co.uk URL: www.concept-e.co.uk</p>

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<p>Water-cooled calorimeter described in:</p> <p>Chapter 5: Heat Release Rate Test for Cabin Materials; Chapter 8: Oil Burner Test for Cargo Liners; Chapter 9: Radiant Heat Testing of Evacuation Slides, Ramps, and Rafts; Chapter 11: Powerplant Hose Assemblies Test Chapter 12: Powerplant Fire Penetration Test.</p>	<p>Medtherm Corporation 2604 Newby Road Huntsville, AL 35805 Phone: 256-837-2000/Fax: 256-837-2001 Email: medthermco@aol.com URL: http://www.metherm.com</p> <p>Vatell Corporation 240 Jannelle Road Christiansburg, VA 24073 Phone: 540-961-3576/Fax: 540-953-3010 Email: mkt@vatell.com URL: http://www.vatell.com (Supplier of Thermogage™ products for heat-flux sensing and calibration).</p> <p>Ineltec – Equipos de simulación y ensayo, S.L. C/Metal·lurgia, 8 - Pol. Ind. Les Goules 08551 Tona – Barcelona, Spain Phone: +34 938 601 500 E-mail: ineltec@ineltec.es URL: www.ineltec.es</p>
<p>Insulation/backing material used for specimen preparation, calorimeter mounting, baffle, etc., described in:</p> <p>Chapter 5: Heat Release Rate Test for Cabin Materials; Chapter 6: Smoke Test for Cabin Materials; Chapter 7: Oil Burner Test for Seat Cushions; Chapter 8: Oil Burner Test for Cargo Liners; Chapter 11: Powerplant Hose Assemblies Test; Chapter 12: Powerplant Fire Penetration Test.</p>	<p>Thermal Ceramics 2102 Old Savannah Road Augusta, GA 30906 Phone: 706-796-4200/Fax: 706-976-4398 Email: tceramics@thermalceramics.com URL: http://www.morganthermalceramics.com</p> <p>Ineltec – Equipos de simulación y ensayo, S.L. C/Metal·lurgia, 8 - Pol. Ind. Les Goules 08551 Tona – Barcelona, Spain Phone: +34 938 601 500 E-mail: ineltec@ineltec.es URL: www.ineltec.es</p>
<p>Oil Burner Test Rigs described in:</p> <p>Chapter 7: Oil Burner Test for Seat Cushions; Chapter 8: Oil Burner Test for Cargo Liners; Chapter 12: Powerplant Fire Penetration Test; Chapter 15: Two Gallon Per Hour Oil Burner Certification Testing for Repaired Cargo Compartment Liners.</p>	<p>Govmark 96-D Allen Boulevard Farmingdale, NY 11735-5626 Phone: 631-293-8944/Fax: 631-293-8956 Email: info@govmark.com URL: http://www.govmark.com</p> <p>MarlinEngineering, Inc. 2200 Division Street, Suite A Bellingham, WA 98226 Phone: 360-671-0155 Email: sales@marlinengineer.com URL: http://www.marlinengineer.com</p>

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<p>Oil Burner Test Rigs described in:</p> <p>Chapter 7: Oil Burner Test for Seat Cushions; Chapter 8: Oil Burner Test for Cargo Liners; Chapter 12: Powerplant Fire Penetration Test; Chapter 15: Two Gallon Per Hour Oil Burner Certification Testing for Repaired Cargo Compartment Liners.</p>	<p>Deatak 4004 W. Dayton Street McHenry, IL 60050 Phone: 815-322-2013 Fax: 815-679-6544 Email: instruments@deatak.com URL: www.deatak.com</p> <p>Ineltec – Equipos de simulación y ensayo, S.L. C/Metal·lurgia, 8 - Pol. Ind. Les Goules 08551 Tona – Barcelona, Spain Phone: +34 938 601 500 E-mail: ineltec@ineltec.es URL: www.ineltec.es</p>
<p>Aircraft Blanket Tester described in:</p> <p>Chapter 18: Recommended Procedure for the 4-Ply Horizontal Flammability Test for Aircraft Blankets.</p>	<p>Concept Equipment Ltd. Unit D1, Rustington Trading Estate, Dominion Way West Sussex, BN16 3HQ, United Kingdom Phone: 44 (0) 1903 784336 Email: fire@concept-e.co.uk URL: www.concept-e.co.uk</p> <p>Govmark 96-D Allen Boulevard Farmingdale, NY 11735-5626 Phone: 631-293-8944/Fax: 631-293-8956 Email: info@govmark.com URL: http://www.govmark.com</p> <p>Deatak 4004 W. Dayton Street McHenry, IL 60050 Phone: 815-322-2013/Fax: 815-679-6544 Email: instruments@deatak.com URL: www.deatak.com</p> <p>Fire Testing Technology Limited Charlwoods Road, East Grinstead, West Sussex, RH19 2HL, United Kingdom Tel: +44 (0)1342 323600 Fax:+44 (0)1342 323608 E-mail: sales@fire-testing.com URL: www.fire-testing.com</p> <p>GBH International 2 Friars Lane Mill Valley, CA, 94941 Phone: 415-388-8278/FAX: 415-795-9618 Email: sales@gbhinternational.com URL: www.gbhinternational.com</p>

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Chapter 18: Recommended Procedure for the 4-Ply Horizontal Flammability Test for Aircraft Blankets.	<p>Ineltec – Equipos de simulación y ensayo, S.L. C/Metal·lurgia, 8 - Pol. Ind. Les Goules 08551 Tona – Barcelona, Spain Phone: +34 938 601 500 E-mail: ineltec@ineltec.es URL: www.ineltec.es</p>
<p>Radiant Heat Panel Test Apparatus described in:</p> <p>Chapter 23: Test Method to Determine the Flammability and Flame Propagation Characteristics of Thermal/Acoustic Insulation Materials.</p>	<p>Concept Equipment Ltd. Unit D1, Rustington Trading Estate, Dominion Way West Sussex, BN16 3HQ, United Kingdom Phone: 44 (0) 1903 784336 Email: fire@concept-e.co.uk URL: www.concept-e.co.uk</p> <p>Fire Testing Technology Limited Charlwoods Road, East Grinstead, West Sussex, RH19 2HL, United Kingdom Tel: +44 (0)1342 323600 Fax:+44 (0)1342 323608 E-mail: sales@fire-testing.com URL: www.fire-testing.com</p> <p>GBH International 2 Friars Lane Mill Valley, CA, 94941 Phone: 415-388-8278/FAX: 415-795-9618 Email: sales@gbhinternational.com URL: www.gbhinternational.com</p> <p>Govmark 96-D Allen Boulevard Farmingdale, NY 11735-5626 Phone: 631-293-8944/Fax: 631-293-8956 Email: info@govmark.com URL: http://www.govmark.com</p> <p>Deatak 4004 W. Dayton Street McHenry, IL 60050 Phone: 815-322-2013/Fax: 815-679-6544 Email: instruments@deatak.com URL: www.deatak.com</p> <p>MarlinEngineering, Inc. 2200 Division Street, Suite A Bellingham, WA 98226 Phone: 360-671-0155 Email: sales@marlinengineer.com URL: http://www.marlinengineer.com</p>

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<p>NexGen Burner Test Rig described in:</p> <p>Chapter 24: Test Method to Determine the Burnthrough Resistance of Thermal/Acoustic Insulation Materials.</p>	<p>Concept Equipment Ltd. Unit D1, Rustington Trading Estate, Dominion Way West Sussex, BN16 3HQ, United Kingdom Phone: 44 (0) 1903 784336 Email: fire@concept-e.co.uk URL: www.concept-e.co.uk</p> <p>Govmark 96-D Allen Boulevard Farmingdale, NY 11735-5626 Phone: 631-293-8944/Fax: 631-293-8956 Email: info@govmark.com URL: http://www.govmark.com</p> <p>MarlinEngineering, Inc. 2200 Division Street, Suite A Bellingham, WA 98226 Phone: 360-671-0155 Email: sales@marlinengineer.com URL: http://www.marlinengineer.com</p> <p>Custom Scientific Instruments, Inc. 1125 Conroy Place Forks Industrial Park IV Easton, PA 18040 Phone: 610-923-6500 Fax: 610-923-6543 URL: http://www.csi-instruments.com</p> <p>Deatak 4004 W. Dayton Street McHenry, IL 60050 Phone: 815-322-2013/Fax: 815-679-6544 Email: instruments@deatak.com URL: www.deatak.com</p> <p>Ineltec – Equipos de simulación y ensayo, S.L. C/Metal·lurgia, 8 - Pol. Ind. Les Goules 08551 Tona – Barcelona, Spain Phone: +34 938 601 500 E-mail: ineltec@ineltec.es URL: www.ineltec.es</p>

EQUIPMENT DESCRIPTION	SUPPLIER/MANUFACTURER
<p>NexGen Burner for Magnesium Alloy Seat Component Test as described in:</p> <p>Chapter 25: Oil Burner Flammability Test for Magnesium Alloy Seat Structure.</p>	<p>MarlinEngineering, Inc. 2200 Division Street, Suite A Bellingham, WA 98226 Phone: 360-671-0155 Email: sales@marlinengineer.com URL: http://www.marlinengineer.com</p> <p>Deatak 4004 W. Dayton Street McHenry, IL 60050 Phone: 815-322-2013 Fax: 815-679-6544 Email: instruments@deatak.com URL: www.deatak.com</p> <p>Concept Equipment Ltd. Unit D1, Rustington Trading Estate, Dominion Way West Sussex, BN16 3HQ, United Kingdom Phone: 44 (0) 1903 784336 Email: fire@concept-e.co.uk URL: www.concept-e.co.uk</p>