

Appendix F – Laboratories Actively Using Fire Test Procedures

The companies listed in table F-1, as reported to us are actively using the fire test procedures in this Handbook (this list is not complete or all-inclusive).

Table F-1. Laboratories Actively Using Fire Test Procedures

See table in next section for specific changes made to each entry:

LABORATORY/COMPANY NAME	TESTS CONDUCTED
ACES, Inc. 202 N. Park Street P.O. Box 411 Maize, KS 67101 Phone: 316-265-8335 Fax: 316-221-1039 Website: www.aces.aero	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 7*, 8*, 10*, 12*, 23*, 24*, 25*
Accufleet Testing Services, Inc. 1959 S. Starpoint Drive Houston, TX 77032 Phone: 281-999-8800 Ext. 1111 Email: TEST@AccuFleet.com Website: www.accufleet.com	Chapters: 1*, 2*, 3*, 4*, 7*, 8*, 15*, 24*, 25*
AIM Aerospace Inc. 705 S.W. 7th Street Renton, WA 98057 Phone: 425-235-2750 Fax: 425-228-0761 Website: www.aim-aerospace.com	Chapters: 1*, 2*, 3*, 5*, 6*
AIM Composites Limited Pembroke Avenue Waterbeach, Cambridge, CB25 9QR United Kingdom Phone: (44) 1223 441000 Website: www.aimaltitude.com Email: labs@aimaltitude.com	Chapters: 1*, 2*, 3*, 4*, 5*, 6*
Airbus Operations GmbH Department ESCMB2 Fire Safety & Engineering Test Airbus-Allee 1 28199 Bremen, Germany Phone: (49) 421 538 6209/4860 Fax: (49) 421 538 3999/4852 Website: www.airbus.com	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 7*, 8*, 15*, 19*, 23*, 24* Chapters: 11, 12, 13, 14, 25 (not offered commercially)

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*Commercial testing services offered.
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<u>LABORATORY/COMPANY NAME</u>	<u>TESTS CONDUCTED</u>
<u>Andrew Muirhead & Son Limited</u> <u>273-289 Dunn Street</u> <u>Glasgow, Scotland, UK G40 3EA</u> <u>Phone: (44) (0) 141 554 3724</u> <u>Fax: (44) (0) 141 554 4741</u> <u>Website: www.muirhead.co.uk</u>	<u>Chapters: 1*, 6*</u>
<u>ApexFlame LLC</u> <u>5285 E TU Avenue</u> <u>Vicksburg, MI 49097</u> <u>Phone: 269-475-8009</u> <u>Website: www.apexflame.com</u> <u>Email: testingservices@apexflame.com</u>	<u>Chapters: 1*, 2*, 3*, 4*, 10*, 18*, 22*</u>
<u>Blue Flame Laboratory</u> <u>1612 Lima Drive</u> <u>San Luis Obispo, CA 93405-6815</u> <u>Phone: 805-440-0073</u> <u>Email: coleeminger@charter.net</u>	<u>Chapters: 1*, 2*, 3*, 4*</u>
<u>Boeing – BR&T HB</u> <u>Boeing Technology Services</u> <u>P.O. Box 3707, MC 1W-02</u> <u>Seattle, WA 98124-2207</u> <u>Phone: 206-544-2699</u> <u>Website: www.boeing.com/bts</u> <u>Email: bts@boeing.com</u>	<u>Chapters: 1*, 2*, 3*, 4*</u>
<u>Boeing Research and Technology</u> <u>Boeing Technology Services</u> <u>P.O. Box 3707, MC 1W-02</u> <u>Seattle, WA 98124-2207</u> <u>Phone: 206-544-2699</u> <u>Website: www.boeing.com/bts</u> <u>Email: bts@boeing.com</u>	<u>Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 9*</u>
<u>Boeing Test and Evaluation</u> <u>Boeing Technology Services</u> <u>P.O. Box 3707, MC 1W-02</u> <u>Seattle, WA 98124-2207</u> <u>Phone: 206-544-2699</u> <u>Website: www.boeing.com/bts</u> <u>Email: bts@boeing.com</u>	<u>Chapters: 7*, 8*, 10*, 12*, 14*, 15*, 24*</u> <u>Chapter: 11 (not commercially available)</u>
<u>CHESTNUT RIDGE FOAM INC.</u> <u>443 Warehouse Drive</u> <u>Latrobe, PA 15650</u>	<u>Chapters: 1*, 6*, 7*</u>

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LABORATORY/COMPANY NAME	TESTS CONDUCTED
Phone: 800-234-2734 Website: www.chestnutridgefoam.com	
CREPIM Parc de la Porte Nord Rue Christophe Colomb Bruay-La-Buissiere, France, 62700 Phone: (33) (0) 3 21 61 64 00 Fax: (33) (0) 3 21 61 64 01 Website: www.crepim.fr Email: contact@crepim.fr	Chapters: 1*, 2*, 3*, 4*, 6*
CTA, Aeronautical Technologies Center Parque Tecnológico de Alava 01510 Minano, Alava, Spain Phone: (34) 945 296 924 Fax: (34) 945 296 923 Website: www.ctaero.com	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 7*, 8*, 12*, 15*, 23*
Currenta GmbH & Co. OHG Chempark, Geb. B411 D-51368 Leverkusen, Germany Phone: (49) 214 30 34416 Fax: (49) 214 30 96 34416 Website: www.fire-testing.eu Email: brandtechnologie@currenta.de	Chapters: 1*, 5*, 6*
CUSTOM SCIENTIFIC INSTRUMENTS INC. – CSI Testing Laboratories 1125 Conroy Place Forks Township Easton, PA 18040 Phone: 610-923-6500 Fax: 610-923-6543 Website: www.CSItestlab.com	Chapters: 1*, 2*, 3*, 4*, 5*, 23*, 24*
DGA Techniques Aeronautiques Centre d'Essais Aeronautiques de Toulouse 47 rue Saint-Jean BP 93123 31131 Balma Cedex, France Phone: (33) 5 6257 5050/5428 Fax: (33) 5 6257 5032	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 7*, 8*, 12*, 15*, 23*, 24*
DLR-Material Test Center - Fire Performance Eugen-Saenger-Str. 50 29328 Fassberg, Germany Phone: (49) 551 709 2115 Fax: (49) 551 709 12115	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 7*, 8*, 10*, 11*, 12*, 15*, 19*

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LABORATORY/COMPANY NAME	TESTS CONDUCTED
<p><u>Duncan Aviation, Inc.</u> <u>15745 S. Airport Road</u> <u>Battle Creek, MI 49015</u> <u>Phone: 269-969-8400</u> <u>Fax: 269-968-8273</u> <u>Website: www.duncanaviation.com</u></p>	<p><u>Chapters: 1*, 2*, 3*, 4*, 10*</u></p>
<p><u>Element Jupiter</u> <u>15814 Corporate Circle</u> <u>Jupiter, FL 33178</u> <u>Phone: 561-776-7339</u> <u>Fax: 561-776-7344</u> <u>Website: www.element.com</u></p>	<p><u>Chapters: 11*, 12*, 13*, 14*</u></p>
<p><u>Element Los Angeles</u> <u>1857 Business Center Drive</u> <u>Duarte, CA 91010</u> <u>Phone: 818-247-4106</u> <u>Fax: 818-247-4537</u> <u>Website: www.delsen.com</u></p>	<p><u>Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 19*</u></p>
<p><u>Element Minneapolis</u> <u>9725 Girard Avenue South</u> <u>Minneapolis, MN 55431-2621</u> <u>Phone: 1-952-888-7795</u> <u>Fax: 952-888-6345</u> <u>Website:</u> <u>https://www.element.com/locations/usa/minneapolis</u></p>	<p><u>Chapters: 1*, 2*, 3*, 4*, 11*, 12*, 13*, 14*</u></p>
<p><u>Embraer Flammability Laboratory</u> <u>Av. Brigadeiro Faria Lima, 2170</u> <u>12227-901, Sao Jose dos Campos – SP</u> <u>Brazil</u> <u>Phone: (55) 12 3927 2049</u> <u>Website: www.embraer.com</u></p>	<p><u>Chapters: 1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 15, 18, 19, 23, 24 (no tests offered commercially)</u></p>
<p><u>Exova Canada</u> <u>2395 Speakman Drive</u> <u>Mississauga, Ontario</u> <u>Canada L5K 1B3</u> <u>Phone: 905-822-4111</u> <u>Fax: 905-823-1446</u> <u>Website: www.exova.com</u> <u>Email: sales@exova.com</u></p>	<p><u>Chapters: 1*, 2*, 3*, 6*, 19*</u></p>
<p><u>Exova GmbH</u> <u>Industriepark Hoechst, Building C 369</u> <u>65926 Frankfurt am Main, Germany</u> <u>Phone: (49) (0) 69 3 05 3476</u> <u>Fax: (49) (0) 69 3 05 1 70 71</u> <u>Website: www.exova.com</u></p>	<p><u>Chapters: 1*, 2*, 3*, 4*, 6*, 7*</u></p>

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LABORATORY/COMPANY NAME	TESTS CONDUCTED
Email: ebh@exova.com	
Flame-Tek, LLC 1515 North Center Street, Suite #1 Lonoke, AR 72086 Phone: 208-569-6093 Website: www.flame-tek.com Email: brad.shelton@flame-tek.com	Chapters: 1*, 2*, 3*, 4*, 23*
Franklin Products, Inc. 153 Water Street Torrington, CT 06790 Phone: 860-482-0266 Fax: 860-482-6759 Website: www.franklinproducts.net Email: jshailer@franklinproducts.net	Chapter: 1*
General Plastics Manufacturing Company 4910 Burlington Way Tacoma, WA 98409 Phone: 253-473-5000 Website: www.generalplastics.com Email: tod_maurmann@generalplastics.com	Chapters: 1*, 2*, 3*, 5*, 6*, 7*
Govmark 96 Allen Boulevard, Suite D Farmingdale, NY 11735-5626 Phone: 631-293-8944 Fax: 631-293-8956 Website: www.govmark.com	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 7*, 8*, 12*, 15*, 18*, 19*, 23*, 24*, 25*
HAECO Americas Cabin Solutions 5568 Gumtree Road Winston-Salem, NC 27107 Phone: 336-464-0122 Website: www.haeco.aero	Chapters: 1*, 3*, 4*, 5*, 6*, 7*
Heath Tecna Inc. 3225 Woburn Street Bellingham, WA 98226 Phone: 360-738-2005 Fax: 360-715-3999	Chapters: 1*, 2*, 3*, 4*, 5*, 6*
Herb Curry Inc. 1701 Leonard Road P.O. Box 753 Mt. Vernon, IN 47620 Phone: 812-838-6703 Fax: 812-838-6712	Chapters: 1*, 2*, 3*, 5*, 6*
INDUSTRIAL NEOTEX S.A. C/Forjadores,	Chapters: 1*, 7*

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LABORATORY/COMPANY NAME	TESTS CONDUCTED
<u>Parcela 17-11 Pol. Ind. Prado del Espino</u> <u>Boadilla del Monte (Madrid), 28660, Spain</u> <u>Phone: (34) 916 324 391</u> <u>Fax: (34) 916 324 284</u> <u>Website: www.neotex.com</u> <u>Email: aha@neotex.com</u>	
<u>ISOVOLTA AG</u> <u>2355 Wiener Neudorf</u> <u>Austria</u> <u>Phone: (43) 5 9595 9305</u> <u>Fax: (43) 5 9595 79305</u> <u>Website: www.isovolta.com</u>	<u>Chapters: 1*, 2*, 3*, 5*, 6*</u>
<u>Isovolta, Inc.</u> <u>495 Territorial Street</u> <u>P.O. Box 287</u> <u>Harrisburg, OR 97446</u> <u>Phone: 541-995-6395</u> <u>Fax: 541-995-8425</u> <u>Website: www.isovolta-or.us</u>	<u>Chapters: 1*, 2*, 5*, 6*</u>
<u>Jamco Singapore Pte Ltd</u> <u>No. 8 Loyang Lane</u> <u>Singapore 508915</u> <u>Phone: (65) 6417 0560</u> <u>Fax: (65) 6542 0248</u> <u>Website: www.sinjam.com.sg</u>	<u>Chapters: 1*, 2*, 3*, 5*, 6*, 7*, 23*</u>
<u>Krueger Testing and Consulting</u> <u>14402 E. Goodwin Road</u> <u>Stanwood, WA 98292</u> <u>Phone: 360-631-6167</u> <u>Website: www.kruegerflam.com</u> <u>Email: keith@kruegerflam.com</u>	<u>Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 23*</u>
<u>Lantal Textiles</u> <u>Dorfasse 5</u> <u>P.O. Box 1330</u> <u>4901 Langenthal, Switzerland</u> <u>Phone: (41) 62 916 71 06</u> <u>Fax: (41) 62 923 25 32</u> <u>Website: www.lantal.com</u>	<u>Chapters: 1*, 2*, 3*, 5*, 6*, 7*, 18*</u>
<u>L.E.F.A.E. (Laboratoire d'essais feu</u> <u>aéronautiques et életriques</u> <u>9 Route du Dome</u> <u>69630 Chaponost, France</u> <u>Phone: (33) 43 720 1917</u>	<u>Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 7*, 8*, 11*,</u> <u>12*, 13*, 14*, 18*, 20*, 24*</u>

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LABORATORY/COMPANY NAME	TESTS CONDUCTED
Fax: (33) 43 720 1910 Website: www.lab-lefae.com Email: a.gutierrez@lab-lefae.com	
Lufthansa Technik AG Central Laboratory Services Materials Flammability Test Center HAM TQ/M-C Weg beim Jaeger 193 22335 Hamburg, Germany Phone: (49) 40 5070 3792 URL: www.Lufthansa-technik.com/de/laboratory-services Email: laboratoryservices@lht.dlh.de	Chapters: 1*, 2*, 3*, 4*, 5*, 10* 18*
MTI Polyfab, a 3M Company 7381 Pacific Circle Mississauga, L5T 2A4, Ontario, Canada Phone: 905-564-9700 x7280 Fax: 905-564-8886 Website: www.mmm.com Contact: Tatjana Stecenko Email: tstecenko@mmm.com	Chapters: 1* 23*, 24*
Parker Hannifin Corporation-Stratoflex Products Division 2575 West 5th Street Jacksonville, FL 32254 Phone: 904-389-3400 Fax: 904-384-5874	Chapter: 11 (not offered commercially)
Parker Hannifin Corporation-Stratoflex Products Division 220 Roberts Cutoff Road Fort Worth, TX 76114 Phone: 817-738-6543 Fax: 817-738-9920	Chapter: 11 (not offered commercially)
Resonate Testing Limited Unit 1, Bridge Technology Park Carnagat Lane Newry, BT35 8XF United Kingdom Phone: 44 (0) 2890 736 390 Website: www.resonatetesting.com Email: info@resonatetesting.com	Chapters: 1*, 2*, 3*, 4*, 7*, 8*, 11*, 12*, 24*, 25*
RESCOLL Technical Centre of Materials 8 Allee Geoffroy St, Hilaire 33615 Pessac, France	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 7*, 8*, 12*, 23*

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LABORATORY/COMPANY NAME	TESTS CONDUCTED
Phone: (33) 547 74 69 00 Website: www.rescoll.fr Email: rescoll@rescoll.com	
Schneller Inc. Corporate Office 6019 Powdermill Road Kent, OH 44240 Phone: 330-676-7156 Fax: 330-673-6374 Website: www.schneller.com	Chapters: 1* , 5* , 6*
Sibir Technics LLC Flammability Test Laboratory Ob Town-2, Novosibirsk Region Russian Federation, 633102 Phone: +7 (383) 3599 013 Fax: +7 (383) 3599 048 Website: www.engineering.-ru.com Email: FTL@e-mro.aero	Chapters: 1* , 2* , 3* , 4* , 7*
Skandia, Inc. 5000 North Highway 251 Davis Junction, IL 61020 Phone: 815-393-4600 Fax: 815-393-3501 Website: www.skandia-inc.com	Chapters: 1* , 2* , 3* , 4* , 5* , 6* , 7* , 9* , 10* , 19* , 23*
Starr Aircraft Products, Inc. 5236 North Hwy 1417 Sherman, TX 75092 Phone: 903-893-1106 Fax: 903-893-0551 Website: www.starraircraft.com Email: bstrobl@starraircraft.com	Chapters: 1* , 7*
Test Center of Civil Aviation Administration of China (CAAC) No. 17, South Section 2, 2 nd Ring Road Chengdu, P.R. China 610041 Phone: 0086-28-64456066, or 0086-28-64456022 Fax: 0086-28-64456010 Website: www.fccc.org.cn	Chapters: 1* , 2* , 3* , 4* , 5* , 6* , 7* , 8* , 10* , 12* , 15* , 18* , 19* , 23* , 24*
Testcorp 24662 Rhea Drive Mission Viejo, CA 92691 Phone: 949-859-3569 Website: www.testcorp.net Email: jnauman@testcorp.net or mnauman@testcorp.net	Chapters: 1* , 2* , 3* , 4* , 5* , 6* , 23*

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LABORATORY/COMPANY NAME	TESTS CONDUCTED
Triumph Composite Systems, Inc. 1514 S. Flint Road Spokane, WA 99219 Phone: 509-623-8100 Fax: 509-623-8099 Website: www.triumphgroup.com	Chapters: 1*, 2*, 23*
TTF Aerospace LLC 4620 B St NW Suite 101 Auburn, WA 98001 Phone: 253-736-6300 Fax: 253-250-6825 Website: www.ttfaero.com Email: sales@ttfaero.com	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 10*, 19*
Vauth & Sohn GmbH Hembser Str. 1 33034 Brakel, Germany Phone: (49) 5272 3713-0 Fax (49) 5272 6671 Website: www.vauth-sohn.com	Chapters: 1*, 2*, 3*, 4*, 6*, 7*
Zodiac Aerospace – Sell GmbH Dr.-Siegfried-Strasse D-35745 Herborn Germany Phone: (49) 2772 707 802 Fax: (49) 2772 707 133 Website: www.-sell-interiors.com	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 10*

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AIRCRAFT MATERIALS FIRE TEST HANDBOOK CHAPTERS

Chapter 1: Vertical Bunsen Burner Test for Cabin and Cargo Compartment Materials

Chapter 2: 45-Degree Bunsen Burner Test for Cargo Compartment Liners and Waste Stowage Compartment Materials

Chapter 3: Horizontal Bunsen Burner Test for Cabin, Cargo Compartment, and Miscellaneous Materials

Chapter 4: 60-Degree Bunsen Burner Test for Electric Wire

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 9: Radiant Heat Testing of Evacuation Slides, Ramps, and Rafts

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- Chapter 10: Fire Containment Test of Waste Stowage Compartments
- Chapter 11: Powerplant Hose Assemblies Test
- Chapter 12: Powerplant Fire Penetration Test
- Chapter 13: Test for Electrical Connectors Used in Firewalls
- Chapter 14: Test for Electrical Wire Used in Designated Fire Zones
- Chapter 15: Two Gallon per Hour Oil Burner Certification Testing for Repaired Cargo Compartment Liners
- Chapter 18: Recommended Procedure for the 4-Ply Horizontal Flammability Test For Aircraft Blankets
- Chapter 19: Smoke Test for Insulated Aircraft Wire
- Chapter 20: Dry Arc Tracking Test Procedure
- Chapter 21: Dry Arc-Propagation Resistance
- Chapter 22: Cotton Swab Test for Thermal Acoustic Insulation Blankets
- Chapter 23: Test Method To Determine the Flammability and Flame Propagation Characteristics of Thermal/Acoustic Insulation Materials
- Chapter 24: Test Method To Determine the Burnthrough Resistance of Thermal/Acoustic Insulation Materials
- Chapter 25: Oil Burner Flammability Test for Magnesium Alloy Seat Structure

Appendix F – Laboratories Actively Using Fire Test Procedures

The companies listed in table F-1, as reported to us are actively using the fire test procedures in this Handbook (this list is not complete or all-inclusive).

Table F-1. Laboratories Actively Using Fire Test Procedures

LABORATORY/COMPANY NAME	TESTS CONDUCTED
ACES, Inc. 202 N. Park Street P.O. Box 411 Maize, KS 67101 Phone: 316-265-8335 Fax: 316-221-1039 Website: www.aces.aero	Chapters: 1*, 2*, 3*, 4*, <u>5*, 6*</u> , 7*, 8*, 10*, 12*, 23*, 24*, 25*
Accufleet Testing Services, Inc.	Chapters: 1*, 2*, 3*, 4*, 7*, 8*, 15*, 24*, 25*

*Commercial testing services offered.
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LABORATORY/COMPANY NAME	TESTS CONDUCTED
1959 S. Starpoint Drive Houston, TX 77032 Phone: 281-999-8800 Ext. 1111 Email: TEST@AccuFleet.com Website: www.accufleet.com	
AIM Aerospace Inc. 705 S.W. 7 th Street Renton, WA 98057 Phone: 425-235-2750 Fax: 425-228-0761 Website: www.aim-aerospace.com	Chapters: 1*, 2*, 3*, 5*, 6*
AIM Composites Limited Pembroke Avenue Waterbeach, Cambridge, CB25 9QR United Kingdom Phone: (44) 1223 441000 Website: www.aimaltitude.com Email: labs@aimaltitude.com	Chapters: 1*, 2*, 3*, 4*, 5*, 6*
Airbus Operations GmbH Department ESCMB2 Fire Safety & Engineering Test Airbus-Allee 1 28199 Bremen, Germany Phone: (49) 421 538 6209/4860 Fax: (49) 421 538 3999/4852 Website: www.airbus.com	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 7*, 8*, 15*, 19*, 23*, 24* Chapters: 11, 12, 13, 14, 25 (not offered commercially)
Andrew Muirhead & Son Limited 273-289 Dunn Street Glasgow, Scotland, UK G40 3EA Phone: (44) (0) 141 554 3724 Fax: (44) (0) 141 554 4741 Website: www.muirhead.co.uk	Chapters: 1*, 6*
ApexFlame LLC 5285 E TU Avenue Vicksburg, MI 49097 Phone: 269-475-8009 Website: www.apexflame.com Email: testingservices@apexflame.com	Chapters: 1*, 2*, 3*, 4*, 10*, 18*, 22*
Blue Flame Laboratory 1612 Lima Drive San Luis Obispo, CA 93405-6815 Phone: 805- 544-2664440-0073 Fax: 805-440-0073 Email: coleeminger@charter.net	Chapters: 1*, 2*, 3*, 4*

Field Code Changed

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LABORATORY/COMPANY NAME	TESTS CONDUCTED
Boeing – BR&T HB Boeing Technology Services P.O. Box 3707, MC 1W-02 Seattle, WA 98124-2207 Phone: 206-544-2699 Website: www.boeing.com/bts Email: bts@boeing.com	Chapters: 1*, 2*, 3*, 4*
Boeing Research and Technology Boeing Technology Services P.O. Box 3707, MC 1W-02 Seattle, WA 98124-2207 Phone: 206-544-2699 Website: www.boeing.com/bts Email: bts@boeing.com	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 9*
Boeing Test and Evaluation Boeing Technology Services P.O. Box 3707, MC 1W-02 Seattle, WA 98124-2207 Phone: 206-544-2699 Website: www.boeing.com/bts Email: bts@boeing.com	Chapters: 7*, 8*, 10*, 12*, 14*, 15*, 24* Chapter: 11 (not commercially available)
CHESTNUT RIDGE FOAM INC. 443 Warehouse Drive Latrobe, PA 15650 Phone: 800-234-2734 Website: www.chestnutridgefoam.com	Chapters: 1*, 6*, 7*
CREPIM Parc de la Porte Nord Rue Christophe Colomb Bruay-La-Buissiere, France, 62700 Phone: (33) (0) 3 21 61 64 00 Fax: (33) (0) 3 21 61 64 01 Website: www.crepim.fr Email: contact@crepim.fr	Chapters: 1*, 2*, 3*, 4*, 6*
CTA, Aeronautical Technologies Center Parque Tecnológico de Alava 01510 Minano, Alava, Spain Phone: (34) 945 296 924 Fax: (34) 945 296 923 Website: www.ctaero.com	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 7*, 8*, 12* 15*, 23*
Currenta GmbH & Co. OHG Chempark, Geb. B411	Chapters: 1*, 5*, 6*

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LABORATORY/COMPANY NAME	TESTS CONDUCTED
D-51368 Leverkusen, Germany Phone: (49) 214 30 34416 Fax: (49) 214 30 96 34416 Website: www.fire-testing.eu Email: brandtechnologie@currenta.de	
CUSTOM SCIENTIFIC INSTRUMENTS, INC. – CSI Testing Laboratories 1125 Conroy Place Forks Township Easton, PA 18040 Phone: 610-923-6500 Fax: 610-923-6543 Website: www.CSItestlab.com	Chapters: 1*, 2*, 3*, 4*, 5*, 23*, <u>24*</u>
DGA Techniques Aeronautiques Centre d'Essais Aeronautiques de Toulouse 47 rue Saint-Jean BP 93123 31131 Balma Cedex, France Phone: (33) 5 6257 5050/5428 Fax: (33) 5 6257 5032	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 7*, 8*, 12*, 15*, 23*, 24*
DLR-Material Test Center - Fire Performance Eugen-Saenger-Str. 50 29328 Fassberg, Germany Phone: (49) 551 709 2115 Fax: (49) 551 709 12115	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 7*, 8*, 10*, 11*, 12*, 15*, 19*
Duncan Aviation, Inc. 15745 S. Airport Road Battle Creek, MI 49015 Phone: 269-969-8400 Fax: 269-968-8273 Website: www.duncanaviation.com	Chapters: 1*, 2*, 3*, 4*, 10*
Element Jupiter 15814 Corporate Circle Jupiter, FL 33178 Phone: 561-776-7339 Fax: 561-776-7344 Website: www.element.com	Chapters: 11*, 12*, 13*, 14*
Element Los Angeles 1857 Business Center Drive Duarte, CA 91010 Phone: 818-247-4106 Fax: 818-247-4537 Website: www.delsen.com	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 19*

*Commercial testing services offered.
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LABORATORY/COMPANY NAME	TESTS CONDUCTED
Element Minneapolis 9725 Girard Avenue South Minneapolis, MN 55431-2621 Phone: 1-800-826-37101-952-888-7795 Fax: 952-888-6345 Website: www.environlab.com https://www.element.com/locations/usa/minneapolis	Chapters: 1*, 2*, 3*, 4*, 11*, 12*, 13*, 14*
Embraer Flammability Laboratory Av. Brigadeiro Faria Lima, 2170 12227-901, Sao Jose dos Campos – SP Brazil Phone: (55) 12 3927 2049 Website: www.embraer.com	Chapters: 1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 15, 18, 19, 23, 24 (no tests offered commercially)
Exova Canada 2395 Speakman Drive Mississauga, Ontario Canada L5K 1B3 Phone: 905-822-4111 Fax: 905-823-1446 Website: www.exova.com Email: sales@exova.com	Chapters: 1*, 2*, 3*, 6*, 19*
<u>Exova GmbH</u> <u>Industriepark Hoechst, Building C 369</u> <u>65926 Frankfurt am Main, Germany</u> <u>Phone: (49) (0) 69 3 05 3476</u> <u>Fax: (49) (0) 69 3 05 1 70 71</u> <u>Website: www.exova.com</u> <u>Email: ebh@exova.com</u>	<u>Chapters: 1*, 2*, 3*, 4*, 6*, 7*</u>
Flame-Tek, LLC 1515 North Center Street, Suite #1 Lonoke, AR 72086 Phone: 208-569-6093 Website: www.flame-tek.com Email: brad.shelton@flame-tek.com	Chapters: 1*, 2*, 3*, 4*, <u>23*</u>
Franklin Products, Inc. 153 Water Street Torrington, CT 06790 Phone: 860-482-0266 Fax: 860-482-6759 Website: www.franklinproducts.net Email: jshailer@franklinproducts.net	Chapter: 1*
General Plastics Manufacturing Company 4910 Burlington Way Tacoma, WA 98409 Phone: 253-473-5000 Fax: 253-473-5104	Chapters: 1*, 2*, 3*, <u>5*</u> , 6*, 7*

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Website: www.generalplastics.com Email: tod_maurmann@generalplastics.com	
Govmark 96 Allen Boulevard, Suite D Farmingdale, NY 11735-5626 Phone: 631-293-8944 Fax: 631-293-8956 Website: www.govmark.com	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 7*, 8*, 12*, 15*, 18*, 19*, 23*, 24*, 25*
<u>HAECO Americas Cabin Solutions</u> <u>5568 Gumtree Road</u> <u>Winston-Salem, NC 27107</u> <u>Phone: 336-464-0122</u> <u>Website: www.haeco.aero</u>	<u>Chapters: 1*, 3*, 4*, 5*, 6*, 7*</u>
Heath Tecna Inc. 3225 Woburn Street Bellingham, WA 98226 Phone: 360-738-2005 Fax: 360-715-3999	Chapters: 1*, 2*, 3*, 4*, 5*, 6*
Herb Curry Inc. 1701 Leonard Road P.O. Box 753 Mt. Vernon, IN 47620 Phone: 812-838-6703 Fax: 812-838-6712	Chapters: 1*, 2*, 3*, 5*, 6*
INDUSTRIAL NEOTEX S.A. C/Forjadores, Parcela 17-11 Pol. Ind. Prado del Espino Boadilla del Monte (Madrid), 28660, Spain Phone: (34) 916 324 391 Fax: (34) 916 324 284 Website: www.neotex.com Email: aha@neotex.com	Chapters: 1*, 7*
ISOVOLTA AG 2355 Wiener Neudorf Austria Phone: (43) 5 9595 9305 Fax: (43) 5 9595 79305 Website: www.isovolta.com	Chapters: 1*, 2*, 3*, 5*, 6* (no tests offered commercially)
Isovolta, Inc. 495 Territorial Street P.O. Box 287 Harrisburg, OR 97446 Phone: 541-995-6395	Chapters: 1*, 2*, 5*, 6*

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Fax: 541-995-8425 Website: www.isovolta-or.us	
Jamco Singapore Pte Ltd No. 8 Loyang Lane Singapore 508915 Phone: (65) 6417 0560 Fax: (65) 6542 0248 Website: www.sinjam.com.sg	Chapters: 1*, 2*, 3*, 5*, 6*, 7*, 23*
Krueger Testing and Consulting 14402 E. Goodwin Road Stanwood, WA 98292 Phone: 360-631-6167 Website: www.kruegerflam.com Email: keith@kruegerflam.com	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 23*
Lantal Textiles Dorfgasse 5 P.O. Box 1330 4901 Langenthal, Switzerland Phone: (41) 62 916 71 06 Fax: (41) 62 923 25 32 Website: www.lantal.com	Chapters: 1*, 2*, 3*, 5*, 6*, 7* 18*
<u>L.E.F.A.E. (Laboratoire d'essais feu aéronautiques et életriques)</u> <u>9 Route du Dome</u> <u>69630 Chaponost, France</u> <u>Phone: (33) 43 720 1917</u> <u>Fax: (33) 43 720 1910</u> <u>Website: www.lab-lefae.com</u> <u>Email: a.gutierrez@lab-lefae.com</u>	<u>Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 7*, 8*, 11*, 12*, 13*, 14*, 18*, 20*, 24*</u>
Lufthansa Technik AG Central Laboratory Services Materials Flammability Test Center HAM TQ/M-C Weg beim Jaeger 193 22335 Hamburg, Germany Phone: (49) 40 5070 3792 URL: www.Lufthansa-technik.com/de/laboratory-services Email: laboratoryservices@lht.dlh.de	Chapters: 1*, 2*, 3*, 4*, 5*, 10* 18*
MTI Polyfab, a 3M Company 7381 Pacific Circle Mississauga, <u>L5T 2A4</u> , Ontario, Canada Phone: 905-564-9700 x7280 Fax: 905-564-8886	Chapters: 1* 23*, 24*

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LABORATORY/COMPANY NAME	TESTS CONDUCTED
Website: www.mmm.com Contact: Tatjana Stecenko Email: tstecenko@mmm.com	
Parker Hannifin Corporation-Stratoflex Products Division 2575 West 5 th Street Jacksonville, FL 32254 Phone: 904-389-3400 Fax: 904-384-5874	Chapter: 11 (not offered commercially)
Parker Hannifin Corporation-Stratoflex Products Division 220 Roberts Cutoff Road Fort Worth, TX 76114 Phone: 817-738-6543 Fax: 817-738-9920	Chapter: 11 (not offered commercially)
<u>Resonate Testing Limited</u> <u>Unit 1, Bridge Technology Park</u> <u>Carnagat Lane</u> <u>Newry, BT35 8XF</u> <u>United Kingdom</u> <u>Phone: 44 (0) 2890 736 390</u> <u>Website: www.resonatetesting.com</u> <u>Email: info@resonatetesting.com</u>	<u>Chapters: 1*, 2*, 3*, 4*, 7*, 8*, 11*, 12*, 24*, 25*</u>
RESCOLL Technical Centre of Materials 8 Allee Geoffroy St, Hilaire 33615 Pessac, France Phone: (33) 547 74 69 00 Website: www.rescoll.fr Email: rescoll@rescoll.com	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 7*, 8*, 12*, 23*
Schneller Inc. Corporate Office 6019 Powdermill Road Kent, OH 44240 Phone: 330-676-7156 Fax: 330-673-6374 Website: www.schneller.com	Chapters: 1*, 5*, 6*
Sibir Technics LLC <u>Flammability Test Laboratory</u> Ob Town-2, Novosibirsk Region Russian Federation, 633102 Phone: +7 (383) 3599 013 Fax: +7 (383) 3599 048 Website: www.sibir-technics.com <u>www.engineering.-ru.com</u> <u>Email: FTL@e-mro.aero</u>	Chapters: 1*, 2*, 3*, 4*, 7*

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Skandia, Inc. 5000 North Highway 251 Davis Junction, IL 61020 Phone: 815-393-4600 Fax: 815-393-3501 Website: www.skandia-inc.com	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 7*, 9*, 10*, 19*, 23*
Starr Aircraft Products, Inc. 5236 North Hwy 1417 Sherman, TX 75092 Phone: 903-893-1106 Fax: 903-893-0551 Website: www.starraircraft.com Email: bstrobl@starraircraft.com	Chapters: 1*, 7*
Test Center of Civil Aviation Administration of China (CAAC) No. 17, South Section 2, 2 nd Ring Road Chengdu, P.R. China 610041 Phone: 0086-28-64456066, or 0086-28-64456022 Fax: 0086-28-64456010 Website: www.fccc.org.cn	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 7*, 8*, 10*, 12*, 15*, 18*, 19*, 23*, 24*
Testcorp 24662 Rhea Drive Mission Viejo, CA 92691 Phone: 949-859-3569 Website: www.testcorp.net Email: jnauman@testcorp.net or mnauman@testcorp.net	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 23*
Triumph Composite Systems, Inc. 1514 S. Flint Road Spokane, WA 99219 Phone: 509-623-8100 Fax: 509-623-8099 Website: www.triumphgroup.com	Chapters: 1*, 2*, 23*
TTF Aerospace LLC 301-30th St NE 4620 B St NW Suite 101 Auburn, WA 98002 98001 Phone: 253-520-6920 253-736-6300 Fax: 253-250-6825 Website: www.ttfaero.com Email: sales@ttfaero.com	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 10*, 19*
Vauth & Sohn GmbH Hembser Str. 1 33034 Brakel, Germany Phone: (49) 5272 3713-0 Fax (49) 5272 6671	Chapters: 1*, 2*, 3*, 4*, 6*, 7*

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Website: www.vauth-sohn.com	
Zodiac Aerospace – Sell GmbH Dr.-Siegfried-Strasse D-35745 Herborn Germany Phone: (49) 2772 707 802 Fax: (49) 2772 707 133 Website: www.-sell-interiors.com	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 10*

AIRCRAFT MATERIALS FIRE TEST HANDBOOK CHAPTERS

- Chapter 1: Vertical Bunsen Burner Test for Cabin and Cargo Compartment Materials
- Chapter 2: 45-Degree Bunsen Burner Test for Cargo Compartment Liners and Waste Stowage Compartment Materials
- Chapter 3: Horizontal Bunsen Burner Test for Cabin, Cargo Compartment, and Miscellaneous Materials
- Chapter 4: 60-Degree Bunsen Burner Test for Electric Wire
- 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 9: Radiant Heat Testing of Evacuation Slides, Ramps, and Rafts
- Chapter 10: Fire Containment Test of Waste Stowage Compartments
- Chapter 11: Powerplant Hose Assemblies Test
- Chapter 12: Powerplant Fire Penetration Test
- Chapter 13: Test for Electrical Connectors Used in Firewalls
- Chapter 14: Test for Electrical Wire Used in Designated Fire Zones
- Chapter 15: Two Gallon per Hour Oil Burner Certification Testing for Repaired Cargo Compartment Liners
- Chapter 18: Recommended Procedure for the 4-Ply Horizontal Flammability Test For Aircraft Blankets
- Chapter 19: Smoke Test for Insulated Aircraft Wire
- Chapter 20: Dry Arc Tracking Test Procedure

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Chapter 21: Dry Arc-Propagation Resistance

Chapter 22: Cotton Swab Test for Thermal Acoustic Insulation Blankets

Chapter 23: Test Method To Determine the Flammability and Flame Propagation Characteristics of Thermal/Acoustic Insulation Materials

Chapter 24: Test Method To Determine the Burnthrough Resistance of Thermal/Acoustic Insulation Materials

Chapter 25: Oil Burner Flammability Test for Magnesium Alloy Seat Structure