

Appendix F – Laboratories Actively Using Fire Test Procedures

The companies listed in table F-1 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*, 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.aimseattle.com	Chapters: 1*, 2*, 3*, 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*

*Commercial testing services offered.

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<u>LABORATORY/COMPANY NAME</u>	<u>TESTS CONDUCTED</u>
<u>Blue Flame Laboratory</u> <u>1612 Lima Drive</u> <u>San Luis Obispo, CA 93405-6815</u> <u>Phone: 805-544-2664</u> <u>Fax: 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>Phone: 800-234-2734</u> <u>Website: www.chestnutridgefoam.com</u>	<u>Chapters: 1*, 6*, 7*</u>
<u>CREPIM</u> <u>Parc de la Porte Nord</u> <u>Rue Christophe Colomb</u> <u>Bruay-La-Buissiere, France, 62700</u> <u>Phone: (33) (0) 3 21 61 64 00</u> <u>Fax: (33) (0) 3 21 61 64 01</u> <u>Website: www.crepim.fr</u> <u>Email: contact@crepim.fr</u>	<u>Chapters: 1*, 2*, 3*, 4*, 6*</u>
<u>CTA, Aeronautical Technologies Center</u> <u>Parque Tecnológico de Alava</u>	<u>Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 7*, 8*, 12*</u> <u>15*, 23*</u>

*Commercial testing services offered.

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<u>LABORATORY/COMPANY NAME</u>	<u>TESTS CONDUCTED</u>
<u>01510 Minano, Alava, Spain</u> <u>Phone: (34) 945 296 924</u> <u>Fax: (34) 945 296 923</u> <u>Website: www.ctaero.com</u>	
<u>Currenta GmbH & Co. OHG</u> <u>Chempark, Geb. B411</u> <u>D-51368 Leverkusen, Germany</u> <u>Phone: (49) 214 30 34416</u> <u>Fax: (49) 214 30 96 34416</u> <u>Website: www.fire-testing.eu</u> <u>Email: brandtechnologie@currenta.de</u>	<u>Chapters: 1*, 5*, 6*</u>
<u>CUSTOM SCIENTIFIC INSTRUMENTS,</u> <u>INC.</u> <u>1125 Conroy Place</u> <u>Forks Township</u> <u>Easton, PA 18040</u> <u>Phone: 610-923-6500</u> <u>Fax: 610-923-6543</u> <u>Website: www.CSItestlab.com</u>	<u>Chapters: 1*, 2*, 3*, 4*, 5*, 23*</u>
<u>DGA Techniques Aeronautiques</u> <u>Centre d'Essais Aeronautiques de</u> <u>Toulouse</u> <u>47 rue Saint-Jean</u> <u>BP 93123</u> <u>31131 Balma Cedex, France</u> <u>Phone: (33) 5 6257 5050/5428</u> <u>Fax: (33) 5 6257 5032</u>	<u>Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 7*, 8*, 12*, 15*, 23*, 24*</u>
<u>DLR-Material Test Center - Fire</u> <u>Performance</u> <u>Eugen-Saenger-Str. 50</u> <u>29328 Fassberg, Germany</u> <u>Phone: (49) 551 709 2115</u> <u>Fax: (49) 551 709 12115</u>	<u>Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 7*, 8*, 10*, 11*, 12*, 15*, 19*</u>
<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>	<u>Chapters: 1*, 2*, 3*, 4*, 10*</u>
<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>	<u>Chapters: 11*, 12*, 13*, 14*</u>

*Commercial testing services offered.

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LABORATORY/COMPANY NAME	TESTS CONDUCTED
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*
Element Minneapolis 9725 Girard Avenue South Minneapolis, MN 55431-2621 Phone: 1-800-826-3710 Fax: 952-888-6345 Website: www.environlab.com	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	Chapters: 1*, 2*, 3*, 6*, 19*
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*
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 Website: www.generalplastics.com Email:	Chapters: 1*, 2*, 3*5*, 6*, 7*

*Commercial testing services offered.

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<u>LABORATORY/COMPANY NAME</u>	<u>TESTS CONDUCTED</u>
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*
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 Fax: 541-995-8425 Website: www.isovolta-or.us	Chapters: 1*, 2*, 5*, 6*
Jamco Singapore Pte Ltd No. 8 Loyang Lane Singapore 508915	Chapters: 1*, 2*, 3*, 5*, 6*, 7*, 23*

*Commercial testing services offered.

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<u>LABORATORY/COMPANY NAME</u>	<u>TESTS CONDUCTED</u>
Phone: (65) 6417 0560 Fax: (65) 6542 0248 Website: www.sinjam.com.sg	
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 Dorfasse 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*
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, 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	Chapter: 11 (not offered commercially)

*Commercial testing services offered.

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<u>LABORATORY/COMPANY NAME</u>	<u>TESTS CONDUCTED</u>
<u>Fort Worth, TX 76114</u> <u>Phone: 817-738-6543</u> <u>Fax: 817-738-9920</u>	
<u>RESCOLL Technical Centre of Materials</u> <u>8 Allee Geoffroy St, Hilaire</u> <u>33615 Pessac, France</u> <u>Phone: (33) 547 74 69 00</u> <u>Website: www.rescoll.fr</u> <u>Email: rescoll@rescoll.com</u>	<u>Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 7*, 8*, 12*, 23*</u>
<u>Schneller Inc. Corporate Office</u> <u>6019 Powdermill Road</u> <u>Kent, OH 44240</u> <u>Phone: 330-676-7156</u> <u>Fax: 330-673-6374</u> <u>Website: www.schneller.com</u>	<u>Chapters: 1*, 5*, 6*</u>
<u>Sibir Technics LLC</u> <u>Ob Town-2, Novosibirsk Region</u> <u>Russian Federation, 633102</u> <u>Phone: +7 (383) 3599 013</u> <u>Fax: +7 (383) 3599 048</u> <u>Website: www.sibir-technics.com</u>	<u>Chapters: 1*, 2*, 3*, 4*, 7*</u>
<u>Skandia, Inc.</u> <u>5000 North Highway 251</u> <u>Davis Junction, IL 61020</u> <u>Phone: 815-393-4600</u> <u>Fax: 815-393-3501</u> <u>Website: www.skandia-inc.com</u>	<u>Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 7*, 9*, 10*, 19*, 23*</u>
<u>Starr Aircraft Products, Inc.</u> <u>5236 North Hwy 1417</u> <u>Sherman, TX 75092</u> <u>Phone: 903-893-1106</u> <u>Fax: 903-893-0551</u> <u>Website: www.starraircraft.com</u> <u>Email: bstrobl@starraircraft.com</u>	<u>Chapters: 1*, 7*</u>
<u>Test Center of Civil Aviation Administration of China (CAAC)</u> <u>No. 17, South Section 2, 2nd Ring Road</u> <u>Chengdu, P.R. China 610041</u> <u>Phone: 0086-28-64456066, or 0086-28-64456022</u> <u>Fax: 0086-28-64456010</u> <u>Website: www.fccc.org.cn</u>	<u>Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 7*, 8*, 10*, 12*, 15*, 18*, 19*, 23*, 24*</u>
<u>Testcorp</u> <u>24662 Rhea Drive</u> <u>Mission Viejo, CA 92691</u>	<u>Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 23*</u>

*Commercial testing services offered.

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<u>LABORATORY/COMPANY NAME</u>	<u>TESTS CONDUCTED</u>
Phone: 949-859-3569 Website: www.testcorp.net Email: jnauman@testcorp.net or mnauman@testcorp.net	
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 Auburn, WA 98002 Phone: 253-520-6920 Fax: 253-250-6825 Website: www.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*

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](#)

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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

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

Website: www.CSTestlab.com Chapters: 1*, 2*, 3*, 4*, 5*, 23*

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LABORATORY/COMPANY NAME	TESTS CONDUCTED
ACES, Inc. 202 N. Park Street PO Box 411 Maize, KS 67101 Phone: 316-265-8335 Fax: 316-221-1039 Website: www.aces.aero	<u>Chapters: 1*, 2*, 3*, 4*, 7*, 8*, 10*, 12*, 23*, 24*, 25</u> <u>Bunsen Burner Tests (Horizontal and Vertical)*</u> <u>Bunsen Burner 60-Degree Wire Insulation Test*</u> <u>Bunsen Burner 45-Degree Test*</u> <u>Seat Oil Burner*</u> <u>Fire Containment Test of Waste Containers*</u> <u>Powerplant Fire Penetration Test*</u> <u>Cargo Oil Burner*</u> <u>Radiant Panel*</u> <u>Insulation Burnthrough Test*</u>

*Commercial testing services offered.

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	Oil Burner Test for Magnesium Alloy Seat Structure*
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* Bunsen Burner Tests (Horizontal and Vertical)* Bunsen Burner 60-Degree Wire Insulation Test* Bunsen Burner 45-Degree Test* Cargo Oil Burner* (Sonic and Park) Seat Oil Burner* (Sonic and Park) Thermal Acoustic Insulation Burnthrough Test* (Sonic and Park) Magnesium Testing
AIM Aerospace Inc. 705 S.W. 7th Street Renton, WA 98057 Phone: 425-235-2750 Fax: 425-228-0761 Website: www.aimseattle.com	Chapters: 1*, 2*, 3*, 5*, 6* Bunsen Burner Heat Release Smoke Test
AIM Composites Ltd. Pembroke Avenue, Waterbeach, Cambridge, CB25 9QR England	Bunsen Burner Heat Release Smoke Test Seat Oil Burner
Air Capital Certification Services, Inc. 4910 Northern Wichita, KS 67216 Phone: 316-524-4466 Fax: 316-524-4456	Bunsen Burner Tests (Horizontal and Vertical)*
Airbus Deutschland GmbH Department ECTBESCOMB2 Material & Processes Fire Safety & Engineering Test Hunefeld Str. 1-5 Airbus-Allee 1 28199 Bremen, Germany Phone: (49) 421 538 50606209/4860 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) Bunsen Burner Heat Release Smoke Test Cargo Oil Burner Seat Oil Burner
Am Safe, Inc. 4043 N. 47 th Avenue Phoenix, AZ 85043 Phone: 602-850-2850 Fax: 602-233-1089 Website: www.amsafe.com	Bunsen Burner Tests (Horizontal and Vertical)*

LABORATORY/COMPANY NAME	TESTS CONDUCTED
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* 12-Second Vertical Bunsen Burner Test* 60-Second Vertical Bunsen Burner Test* Smoke Test*
Atlas Material Testing Technology LLC	Bunsen Burner

*Commercial testing services offered.

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<p>4114 N. Ravenswood Avenue Chicago, IL 60613 Phone: 773-327-4520 Fax: 773-327-5787 Website: www.atlas-mts.com</p>	
<p>Blue Flame Laboratory 1612 Lima Drive San Luis Obispo, CA 93405-6815 Phone: 805-544-2664 Fax: 805-440-0073 Email: coleeminger@charter.net</p>	<p>Chapters: <u>1*, 2*, 3*, 4*</u> Bunsen Burner</p>
<p>Boeing – Douglas Products Division BR&T HB 5301 Bolsa Avenue Dept. N812, M/C H021-F120 Boeing Technology Services P.O. Box 3707, MC 1W-02 Seattle, WA 98124-2207 Huntington Beach, CA 92647 Phone: 714-896-6237/206-544-2699 Website: www.boeing.com/bts Email: bts@boeing.com</p>	<p>Chapters: <u>1*, 2*, 3*, 4*</u> Bunsen Burner</p>
<p>Boeing Research and Technology Boeing Technology Services P.O. Box 3707, MC 1W-02 Seattle, WA 98124-2207 Phone: 206-662-1478/206-544-2699 Website: www.boeing.com/bts Email: bts@boeing.com</p>	<p>Chapters: <u>1*, 2*, 3*, 4*, 5*, 6*, 9*</u> Bunsen Burner Heat Release Smoke Test Evacuation Slide Radiant Panel</p>
<p>Boeing Test and Evaluation Boeing Technology Services P.O. Box 3707, MC 1W-02 Seattle, WA 98124-2207 Phone: 206-662-1478/206-544-2699 Website: www.boeing.com/bts Email: bts@boeing.com</p>	<p>Chapters: <u>7*, 8*, 10*, 12*, 14*, 15*, 24*</u> Chapter 11 (not commercially available) Cargo Oil Burner* Seat Oil Burner* Powerplant Fire Test* Powerplant Hose Assembly Powerplant Electric Wire Powerplant Connectors Thermal Acoustic Insulation Burnthrough Test*</p>
<p>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</p>	<p>Bunsen Burner* Heat Release* Smoke Test* Cargo Oil Burner & Seat Oil Burner* Radiant Panel* Powerplant Hose Assemblies Test* Powerplant Fire Penetration Test* Powerplant Fire Tests* Insulation Burnthrough Test*</p>
<p>CHESTNUT RIDGE FOAM INC. 443 Warehouse Drive Latrobe, PA 15650 Phone: 800-234-2734 Website: www.chestnutridgefoam.com</p>	<p>Chapters: <u>1*, 6*, 7*</u> 12-Second Vertical Bunsen Burner Test 60-Second Vertical Bunsen Burner Test Seat Oil Burner</p>
<p>Crane Resistoflex Aerospace 2575 West 5th Street Jacksonville, FL 32254 Phone: 904-380-3400 x140 Fax: 904-384-5333</p>	<p>Powerplant Hose Assemblies Test</p>
<p>CREPIM Parc de la Porte Nord, Rue Christophe Colomb</p>	<p>Chapters: <u>1*, 2*, 3*, 4*, 6*</u> Bunsen Burner Tests (Horizontal and Vertical)*</p>

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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	Bunsen Burner 60-Degree Wire Insulation Test* Bunsen Burner 45-Degree Test* Smoke Test*
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LABORATORY/COMPANY NAME	TESTS CONDUCTED
<u>CTA, Aeronautical Technologies Center</u> <u>Parque Tecnológico de Alava</u> <u>01510 Minano, Alava, Spain</u> <u>Phone: (34) 945 296 924</u> <u>Fax: (34) 945 296 923</u> <u>Website: www.ctaero.com</u>	<u>Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 7*, 8*, 12*, 15*, 23*</u> <u>Bunsen Burner</u> <u>(Horizontal, Vertical, 45 & 60-Degree)*</u> <u>Heat Release*</u> <u>Smoke Test*</u> <u>Cargo Oil Burner*</u> <u>Seat Oil Burner*</u> <u>Powerplant Fire Test*</u> <u>Insulation Flame Propagation (Radiant Panel)*</u>
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	<u>Chapters: 1*, 5*, 6*</u> Bunsen Burner* Heat Release* Smoke Test*
<u>CTA, Aeronautical Technologies Center</u> <u>Parque Tecnológico de Alava</u> <u>01510 Minano, Alava, Spain</u> <u>Phone: (34) 945 296 924</u> <u>Fax: (34) 945 296 923</u> <u>Website: www.ctaero.com</u>	<u>Bunsen Burner</u> <u>(Horizontal, Vertical, 45 & 60-Degree)*</u> <u>Heat Release*</u> <u>Smoke Test*</u> <u>Cargo Oil Burner*</u> <u>Seat Oil Burner*</u> <u>Powerplant Fire Test*</u> <u>Insulation Flame Propagation (Radiant Panel)*</u>
Custom Products, Inc. PO Box 1144 Mooresville, NC 28115 Phone: 704-663-4159 Fax: 704-663-7904	Bunsen Burner* Seat Oil Burner*
CUSTOM SCIENTIFIC INSTRUMENTS, INC. 1125 Conroy Place Forks Township Easton, PA 18040 Phone: 610-923-6500 Fax: 610-923-6543 Website: www.esi-instrumentsCSItestlab.com	<u>Chapters: 1*, 2*, 3*, 4*, 5*, 23*</u> Bunsen Burner Heat Release

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*Commercial testing services offered.
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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*
DLR-Material Test Center Fire Performance Eugen-Saenger-Str. 50 29328 Fassberg, Germany Phone: (49) 551 709 2115 Fax: (49) 551 709 12115	Bunsen Burner Smoke Test Heat Release Cargo Oil Burner Seat Oil Burner Powerplant Fire Test Powerplant Hose Assembly
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* Bunsen Burner (Vertical and Horizontal)* Bunsen Burner 45-Degree* Fire Containment Test of Waste Compartments* Bunsen Burner: 60-Degree Wire Insulation Test
Element Glendale Los Angeles 4024 Grand Central Avenue Glendale, CA 91204 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* Bunsen Burner* Heat Release* Smoke Test*

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LABORATORY/COMPANY NAME	TESTS CONDUCTED
Element Jupiter 15814 Corporate Circle Jupiter, FL 33178 Phone: 561-776-7339 Fax: 561-776-7344 Website: www.ewttestelement.com	Bunsen Burner Cargo Oil Burner Seat Oil Burner Powerplant Fire Test Powerplant Hose Assembly Powerplant Electric Wire Powerplant Connectors
Environ Laboratories, Inc. Element Minneapolis 9725 Girard Avenue South Minneapolis, MN 55431-2621 Phone: 1-800-826-3710 Fax: 952-888-6345 Website: www.environlab.com	Chapters: 1*, 2*, 3*, 4*, 11*, 12*, 13*, 14* Bunsen Burner Powerplant Fire Test Powerplant Hose Assembly Powerplant Electric Wire Powerplant Connectors

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<p>Embraer Flammability Laboratory Av. Brigadeiro Faria Lima, 2170 12227-901, Sao Jose dos Campos – SP Brazil Phone: (55) 12 3927 46532049 Website: www.embraer.com</p>	<p><u>Chapters: 1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 15, 18, 19, 23, 24 (none offered commercially)</u></p> <p>Bunsen Burner Heat Release Smoke Test Cargo Oil Burner Seat Oil Burner Powerplant Fire Test Powerplant Hose Assembly</p>
<p>Environ Laboratories, Inc. 0725 Girard Avenue South Minneapolis, MN 55431-2624 Phone: 1-800-826-3740 Fax: 952-888-6345 Website: www.onvironlab.com</p>	<p>Bunsen Burner Powerplant Fire Test Powerplant Hose Assembly Powerplant Electric Wire Powerplant Connectors</p>
<p>Exova Canada 2395 Speakman Drive Mississauga, Ontario Canada L5K 1B3 Phone: 905-822-4111 Fax: 905-823-1446 Website: www.exova.com</p>	<p><u>Chapters: 1*, 2*, 3* 6*, 19*</u></p> <p>Bunsen Burner Smoke Test</p>
<p>Exova GmbH Indstriepark Hochst, Geb. C 369 D-65926 Frankfurt am Main Germany Phone: 49 (0) 69 305 3882 Fax: 49 (0) 69 305 1 7074 Website: www.exova.com</p>	<p>Bunsen Burner (Vertical and Horizontal)* Bunsen Burner: 45-Degree and 60-Degree* Smoke Test* Seat Oil Burner* Cargo Oil Burner*</p>
<p>Flame Out, Inc. 413 N. 2nd Street Pleasant Dale, NE 68423 Phone: 402-795-5335 Fax: 402-795-5336</p>	<p>Seat Oil Burner</p>
<p>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</p>	<p><u>Chapters: 1*, 2*, 3*, 4*</u></p> <p>Bunsen Burner (Vertical and Horizontal)* Bunsen Burner 60-Degree Wire Insulation Test* Bunsen Burner 45-Degree Test*</p>
<p>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</p>	<p><u>Chapter: 1*</u></p> <p>Bunsen Burner*</p>
<p>General Plastics Manufacturing Company 4910 Burlington Way Tacoma, WA 98409 Phone: 253-473-5000 Fax: 253-473-5104 Email: tod_maurmann@generalplastics.com Website : http://www.generalplastics.com</p>	<p><u>Chapters: 1*, 2*, 3*, 5*, 6*, 7*</u></p> <p>Bunsen Burner: Horizontal, Vertical, 45-degree* Seat Oil Burner*</p>

LABORATORY/COMPANY NAME	TESTS CONDUCTED
Govmark	<u>Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 7*, 8*, 12*, 15*, 18*,</u>

*Commercial testing services offered.

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<p>96 Allen Boulevard, Suite D Farmingdale, NY 11735-5626 Phone: 631-293-8944 Fax: 631-293-8956 Website: www.govmark.com</p>	<p><u>19*, 23*, 24*</u> <u>Bunsen Burner (Horizontal, Vertical, 45 & 60-Degree)*</u> <u>Heat Release*</u> <u>Smoke Test*</u> <u>Cargo Oil Burner*</u> <u>Seat Oil Burner*</u> <u>Powerplant Fire Test*</u> <u>Aircraft Blanket Test*</u> <u>Insulation Flame Propagation Test (Radiant Panel)*</u> <u>Insulation Burnthrough Test*</u> <u>Wire Test*</u></p>
<p>Heath Tecna Inc. 3225 Woburn Street Bellingham, WA 98226 Phone: 360-738-2005 Fax: 360-715-3999</p>	<p><u>Chapters: 1*, 2*, 3*, 4*, 5*, 6*</u> <u>Bunsen Burner</u> <u>Heat Release</u> <u>Smoke Test</u></p>
<p>Herb Curry Inc. 1701 Leonard Road P.O. Box 753 Mt. Vernon, IN 47620 Phone: 812-838-6703 Fax: 812-838-6712</p>	<p><u>Chapters: 1*, 2*, 3*, 5*, 6*</u> <u>Bunsen Burner</u> <u>Heat Release</u> <u>Smoke Test</u></p>
<p>Hexcel Duxford <u>United Kingdom CB22 4QD</u> <u>Phone: 44 01223 838725</u> <u>Fax: 44 01223 838333</u></p>	<p><u>Smoke Test</u> <u>Bunsen Burner</u></p>
<p>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</p>	<p><u>Chapters: 1*, 7*</u> <u>Seat Oil Burner*</u> <u>Bunsen Burner (12-Second Vertical)*</u></p>
<p>ISOVOLTA AG 2355 Wiener Neudorf Austria Phone: 43 5 9595 9305 Fax: 43 59595 79305 Website: www.isovolta.com</p>	<p><u>Chapters: 1, 2, 3, 5, 6 (not offered commercially)</u> <u>Bunsen Burner</u> <u>Heat Release</u> <u>Smoke Test</u></p>
<p><u>Singapore Jamco 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></p>	<p><u>Bunsen Burner: Horizontal, Vertical, & 45-Degree*</u> <u>Heat Release*</u> <u>Smoke Test*</u> <u>Radiant Panel*</u> <u>Seat Oil Burner*</u></p>
<p><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></p>	<p><u>Chapters: 1*, 2*, 5*, 6*</u></p>

*Commercial testing services offered.

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<p><u>Singapore Jamco 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></p>	<p><u>Chapters: 1*, 2*, 3*, 5*, 6*, 7*, 23*</u> <u>Bunsen Burner: Horizontal, Vertical, & 45-Degree*</u> <u>Heat Release*</u> <u>Smoke Test*</u> <u>Radiant Panel*</u> <u>Seat Oil Burner*</u></p>
<p><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></p>	<p><u>Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 23*</u> <u>Bunsen Burner: Vertical, Horizontal, 45-degree,</u> <u>60-degree wire*</u> <u>Heat Release*</u> <u>Smoke Test*</u> <u>Insulation Flame Propagation Test*</u></p>

*Commercial testing services offered.

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LABORATORY/COMPANY NAME	TESTS CONDUCTED
Lantal Textiles Dorfgasse 5 PO Box 1330 4901 Langenthal, Switzerland Phone: (41) 62 916 71 06 Fax: (41) 62 923 25 32 Website: www.lantal.com	Chapters: <u>1*, 2*, 3*, 5*, 6*, 7*, 18*</u> Bunsen Burner* Heat Release* Smoke Test* Seat Oil Burner* Aircraft Blanket Test*
LEFAE ZA de Parc des Boss 5, Route du Dome 69630 Chaponost, France Phone : (33) 4 37 201 917 Website : www.lab-lefae.com Email : info@lab-lefae.com	Bunsen Burner* Smoke Test* Cargo Oil Burner* Seat Oil Burner* Powerplant Fire Test* Powerplant Hose Assembly* Powerplant Electric Wire* Aircraft Blanket Test*
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 Website: www.lufthansa-technik.com/de/laboratory-services Email: laboratoryservices@lht.dlh.de	Chapters: <u>1*, 2*, 3*, 4*, 5*, 10*, 18*</u> Bunsen Burner* Heat Release* Aircraft Blanket Test* Fire Containment Test*
McDermed Aviation Consultants, LLC 1982 25 th Avenue, NE Suite 8 Hillsboro, OR 97124 Phone: 503-372-6549 Cell: 503-926-2204 Website: www.mcdermedaviation.com Email: chuck@mcdermedaviation.com	Bunsen Burner (Vertical and Horizontal) Bunsen Burner 45-Degree Test* Bunsen Burner 60-Degree Test* Aircraft Blanket Test*
MTI PolyFab, a 3M Company 7381 Pacific Circle Mississauga, Ontario, Canada Phone: 905-564-9700 x7280 Fax: 905-564-8886 Website: www.mmm.com Contact: Tatjana Stecenko Email: tstecenko@mmm.com	Chapters: <u>1*, 23*, 24*</u> Bunsen Burner Radiant Panel Insulation Burnthrough Test
Crane Resistoflex Aerospace Parker Hannifin Corporation-Stratoflex Products Division 2575 West 5 th Street Jacksonville, FL 32254 Phone: 904-389-3400-x140 Fax: 904-384-5333-5874	Chapter 11 (not offered commercially) Powerplant Hose Assemblies Test
Parker Hannifin Corporation – Stratoflex Products Division 220 Roberts Cutoff Road Fort Worth, TX 76114 Phone: 817-738-9920 Fax: 817-738-9920	Chapter: 11 (not offered commercially)
RESCOLL Technical Centre of Materials 8 Allee Geoffroy St, Hilaire 33615 Pessac France Phone: (33) 547 74 69 00 Email: rescoll@rescoll.com	Chapters: <u>1*, 2*, 3*, 4*, 5*, 6*, 7*, 8*, 12*, 23*</u> Bunsen Burner (Horizontal and Vertical)* Bunsen Burner 60-Degree Wire Insulation Test* Bunsen Burner 45-Degree Test* Smoke Test* Heat Release*

*Commercial testing services offered.

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Website: www.rescoll.fr	Cargo Oil Burner* Seat Oil Burner* Insulation Burnthrough Test* Powerplant Fire Test*
Rohi Stoffe GmbH SchoenlinderstraBe 4 82538 Geretsried, Germany Phone: (49) 8171-9354-14 Fax: (49) 8171-9354-99 Website: www.rohi.com	Bunsen Burner
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* Bunsen Burner Heat Release Smoke Test
LABORATORY/COMPANY NAME	TESTS CONDUCTED
Sell GmbH Zodiac Aerospace Dr.-Siegfried-Strass D-35745 Herborn Germany Phone: (49) 2772-707-665 Fax: (49) 2772-707-133 Website: www.sell-interiors.com	Bunsen Burner* Heat Release* Smoke Test* Fire Containment Test of Waste Compartments*

*Commercial testing services offered.

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SGS U.S. Testing Company 8385 White Oak Avenue Rancho Cucamonga, CA 91730 Phone: 909-483-0250 Fax: 909-483-0336 Website: www.sgsustesting.com	Smoke Test
SGS U.S. Testing Company 4341 N. 108 East Avenue Tulsa, OK 74116 Phone: 918-437-8333 Website: www.sgsustesting.com	Bunsen Burner
Shanghai Aircraft Research Institute Longhua Airport Building, PO Box 232-003 Shanghai 200232, PR China Phone: (86) 21-643-88-606	Bunsen Burner Heat Release Smoke Test Cargo Oil Burner Seat Oil Burner
Singapore Jamco Pte Ltd No. 8 Loyang Lane Singapore 508015 Phone: (65) 6417-0560 Fax: (65) 6542-0248 Website: www.sinjam.com.sg	Bunsen Burner: Horizontal, Vertical, & 45 Degree* Heat Release* Smoke Test* Radiant Panel* Seat Oil Burner*
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* Bunsen Burner* Seat Oil Burner* Wire Insulation Test* Fire Containment Test of Waste Containers* Radiant Panel* Smoke Test* Heat Release*
Starr Aircraft Products, Inc. 5236 North Hwy 1417 Sherman, TX 75092 Phone: 903-893-1106 Fax: 903-893-0551 Email: bstrobl@starraircraft.com Website: www.starraircraft.com	Chapters: 1*, 7* 12-second Vertical Bunsen Burner Test* 60-second Vertical Bunsen Burner Test* Seat Cushion Assembly Oil Burner Test*
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.tccaae.com.cn www.fccc.org.cn	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 7*, 8*, 10*, 12*, 15*, 18*, 19*, 23*, 24* Bunsen Burner* Heat Release* Smoke Test* Cargo Oil Burner* Seat Oil Burner* Powerplant Fire Test* Aircraft Blanket Test* Radiant Panel* Insulation Burnthrough Test*
Testcorp 24662 Rhea Drive Mission Viejo, CA 92691 Phone: 949-859-3659/3569 Website: www.testcorp.net Email: inauman@testcorp.net , mnauman@testcorp.net	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 23* Bunsen Burner* Heat Release* Smoke Test* Radiant Panel*
The Boeing Company Boeing Technology Services PO Box 3707, MS: 9R-28	

*Commercial testing services offered.

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Seattle, WA 98124 Phone: 206-277-4600 Website: www.boeing.com	
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*Commercial testing services offered.

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LABORATORY/COMPANY NAME	TESTS CONDUCTED
The Mexmil Company 2865 South Pullman Street Santa Ana, CA 92705 Phone: 949-250-4999 Fax: 949-250-7425 Website: www.mexmil.com	12-Second Vertical Bunsen Burner Test 60-Second Vertical Bunsen Burner Test 45-Second Horizontal Bunsen Burner Test Radiant Panel
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* 12-Second Vertical Bunsen Burner Test* 60-Second Vertical Bunsen Burner Test* 30-Sec, 45-degree Horizontal Bunsen Burner Test* Radiant Panel*
TTF Aerospace LLC 301 30th St NE Auburn, WA 98002 Phone: 253-520-6920 Fax: 253-20-6835 Website: www.tffaero.com	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 10*, 19* Bunsen Burner Heat Release Smoke Test
Varig Engineering and Maintenance Rua 18 de novembro, 851 — Building 17, Room 79 Porto Alegre, Rio Grande Do Sul, Brazil Phone: (55) 51 33 58 71 35 Fax: (55) 51 33 58 73 34	Bunsen Burner Seat Oil Burner
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* Bunsen Burner* Smoke Test* Seat Oil Burner*
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*
Zodiac Seats France ZI-Limoise Rue Robert Marechal Senior 36100 Issoudun, France Phone: (33) 2 54 03 39 39 Fax: (33) 2 54 03 39 00 Website: www.zodiacaerospace.com	12-Second Vertical Bunsen Burner Test* 60-Second Vertical Bunsen Burner Test* Seat Oil Burner*

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