



U.S. Department  
of Transportation  
**Federal Aviation  
Administration**

**Transport Airplane Directorate  
Aircraft Certification Service**

1601 Lind Avenue Southwest  
Renton, Washington 98057-3356

**JUL 29 2010**

In Reply  
Refer To: 150S-10-373

Mr. Keith Kreuger  
Krueger Consulting, LLC  
14402 E. Lake Goodwin Rd  
Stanwood, WA 98292

Dear Mr. Krueger:

This letter is provided in response to your request for Federal Aviation Administration (FAA) review of the Bunsen burner flammability test chamber and conditioning chamber located at 14402 E. Lake Goodwin Rd, Stanwood, WA 98292. We conducted our evaluation of your flammability test equipment on July 15, 2010.

The FAA finds that, with oversight from an FAA Designated Engineering Representative, your facility is qualified to produce flammability test data for use in FAA type certification projects. This acceptance applies to tests accomplished in accordance with Title 14 Code of Federal Regulations (CFR) part 25, Appendix F, Part I.

Regretfully, we are not able to accept your facility for testing in accordance with 14 CFR part 25, Appendix F, parts IV, V, and VI at this time. Please re-submit your request when previously communicated outstanding issues regarding your facility have been resolved.

Should you make any changes to your flammability test chamber, conditioning chamber, test setup, equipment, or procedures, please provide the pertinent information to our office prior to implementation for FAA evaluation and possible re-approval.

If you have additional questions regarding this matter, please contact Mrs. Ana Martinez Hueto by telephone at (425) 917-6592, or by e-mail at [ana.m.hueto@faa.gov](mailto:ana.m.hueto@faa.gov).

Sincerely,

Robert D. Breneman  
Acting Manager, Seattle Aircraft  
Certification Office



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1601 Lind Avenue Southwest  
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**FEB - 4 2011**

In Reply  
Refer To: 150S-11-42

Mr. Keith Kreuger  
Krueger Consulting, LLC  
14402 E. Lake Goodwin Rd  
Stanwood, WA 98292

Dear Mr. Kreuger:

This letter is provided in response to your request for Federal Aviation Administration (FAA) review of the heat release test equipment located at 14402 E. Lake Goodwin Rd, Stanwood, WA 98292. We conducted our evaluation of your heat release test equipment on various dates between August 2010 and January 2011.

The FAA finds that, with oversight from an FAA Designated Engineering Representative, your facility is qualified to produce heat release test data for use in FAA type certification projects. This acceptance applies to tests accomplished in accordance with Title 14 Code of Federal Regulations (CFR) part 25, Appendix F, Part IV.

Should you make any changes to your heat release test equipment and related software, test setup or procedures, please provide the pertinent information to our office prior to implementation for FAA evaluation and possible re-approval.

If you have additional questions regarding this matter, please contact Mrs. Ana Martinez Hueto by telephone at (425) 917-6592, or by e-mail at [ana.m.hueto@faa.gov](mailto:ana.m.hueto@faa.gov).

Sincerely,

Robert D. Breneman  
Acting Manager, Seattle Aircraft  
Certification Office



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**Federal Aviation  
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**Transport Airplane Directorate  
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1601 Lind Avenue Southwest  
Renton, Washington 98057-3356

**NOV 24 2010**

In Reply

Refer To: 150S-10-569

Mr. Keith Kreuger  
Krueger Consulting, LLC  
14402 E. Lake Goodwin Rd  
Stanwood, WA 98292

Dear Mr. Kreuger:

This letter is provided in response to your request for Federal Aviation Administration (FAA) review of the smoke density test equipment located at 14402 E. Lake Goodwin Rd, Stanwood, WA 98292. We conducted our evaluation of your smoke density test equipment on August 31, 2010.

The FAA finds that, with oversight from an FAA Designated Engineering Representative, your facility is qualified to produce smoke density test data for use in FAA type certification projects. This acceptance applies to tests accomplished in accordance with Title 14 Code of Federal Regulations (CFR) part 25, Appendix F, Part V.

Should you make any changes to your smoke density test equipment, test setup, equipment, or procedures, please provide the pertinent information to our office prior to implementation for FAA evaluation and possible re-approval.

If you have additional questions regarding this matter, please contact Mrs. Ana Martinez Hueto by telephone at (425) 917-6592, or by e-mail at [ana.m.hueto@faa.gov](mailto:ana.m.hueto@faa.gov).

Sincerely,

*for* Robert D. Breneman  
Acting Manager, Seattle Aircraft  
Certification Office



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of Transportation  
**Federal Aviation  
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**Transport Airplane Directorate  
Aircraft Certification Service**

1601 Lind Avenue Southwest  
Renton, Washington 98057-3356

**NOV 12 2010**

In Reply  
Refer To: 150S-10-547

Mr. Keith Kreuger  
Krueger Consulting, LLC  
14402 E. Lake Goodwin Rd  
Stanwood, WA 98292

Dear Mr. Kreuger:

This letter is provided in response to your request for Federal Aviation Administration (FAA) review of the radiant panel test chamber located at 14402 E. Lake Goodwin Rd, Stanwood, WA 98292. We conducted our evaluation of your flame propagation test equipment on August 23, 2010 and a follow up visit on September 17, 2010.

The FAA finds that, with oversight from an FAA Designated Engineering Representative, your facility is qualified to produce flammability test data for use in FAA type certification projects. This acceptance applies to tests accomplished in accordance with Title 14 Code of Federal Regulations (CFR) part 25, Appendix F, Part VI.

Should you make any changes to your radiant panel test chamber, test setup, equipment, or procedures, please provide the pertinent information to our office prior to implementation for FAA evaluation and possible re-approval.

If you have additional questions regarding this matter, please contact Mrs. Ana Martinez Hueto by telephone at (425) 917-6592, or by e-mail at [ana.m.hueto@faa.gov](mailto:ana.m.hueto@faa.gov).

Sincerely,

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Robert D. Breneman  
Acting Manager, Seattle Aircraft  
Certification Office



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**Federal Aviation  
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**Transport Airplane Directorate  
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1601 Lind Avenue Southwest  
Renton, Washington 98057-3356

**MAR -7 2011**

In Reply  
Refer To: 150S-11-67

Mr. Keith Kreuger  
Krueger Consulting, LLC  
14402 E. Lake Goodwin Rd  
Stanwood, WA 98292

Dear Mr. Kreuger:

This letter is provided in response to your request for Federal Aviation Administration (FAA) acceptance of the Bunsen burner flammability test chamber and conditioning chamber located at 14402 E. Lake Goodwin Rd, Stanwood, WA 98292 for use to conduct tests to show compliance to the flammability requirements of Title 14 Code of Federal Regulations (CFR) part 23, part 27 and part 29.

We conducted our evaluation of your flammability test equipment on July 15, 2010 and at the time we found that, with oversight from an FAA Designated Engineering Representative (DER), your facility was qualified to produce the flammability test data in accordance with Title 14 CFR part 25 Appendix F, which includes the Bunsen burner vertical test, horizontal test, forty-five degree test and sixty degree test. Since the flammability requirements in Title 14 CFR part 23, part 27 and part 29 specify the use of one or more of the four Bunsen burner tests in part CFR 25 Appendix F, the FAA finds your facilities equally qualified to produce the certification data under the appropriate oversight from an FAA DER.

Should you make any changes to your flammability test chamber, conditioning chamber, test setup, equipment, or procedures, please provide the pertinent information to our office prior to implementation for FAA evaluation and possible re-approval.

If you have additional questions regarding this matter, please contact Mrs. Ana Martinez Hueto by telephone at (425) 917-6592, or by e-mail at [ana.m.hueto@faa.gov](mailto:ana.m.hueto@faa.gov).

Sincerely,

*for* Robert D. Breneman  
Acting Manager, Seattle Aircraft  
Certification Office