United States Environmental Protection Agency

OMB Control No. 2060-0161
Approval expires 03/31/2019

OMB Control No. 2060-0693
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# 30-DAY NOTIFICATION

## 2015 CLEAN AIR ACT (CAA) STANDARDS OF PERFORMANCE FOR NEW RESIDENTIAL WOOD HEATERS, NEW RESIDENTIAL HYDRONIC HEATERS AND FORCED-AIR FURNACES 40 CFR PART 60 SUBPARTS AAA AND QQQQ

**The public reporting and recordkeeping burden for this collection of information is estimated to average 2 hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Regulatory Support Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.**

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**Instructions: The manufacturer of an affected wood/pellet heater/central heater model line must notify the Administrator of the date that certification testing is scheduled to begin by email to WoodHeaterReports@epa.gov. This notice must be received by the EPA at least 30 days before the start of testing.**

| GENERAL INFORMATION | | | | | | |
|---|---|---|---|---|---|---|
| **Manufacturer's Name:** AJ Wells & Sons Ltd, dba Charnwood | | | | | | |
| **Heater Type (Circle One):** | ■Adjustable Burn Rate Wood Heater | ☐Pellet Stove | ☐Single Burn Rate Heater | ☐Hydronic Heater | ☐Forced Air Furnace | ☐Other: |
| **Hydronic Heater Type (Check one):** | ☐Full Storage | ☐Partial Storage | ☐Indoor | ☐Outdoor | ☐Other: | |
| **Forced-Air Furnace Type (Check one):** | ☐Small (less than 65,000 BTU/hr heat output) | | ☐Large (greater than 65,000 BTU/hr heat output) | | | |
| **Fuel Tested (Check one):** | ☐Crib | ☐Pellet | ■Cordwood | ☐Wood Chips | ☐Other: | |
| **Model Name(s) (as will appear on test report):** Charnwood Skye E700 | | | | | | |
| **Model Number(s) (as will appear on test report):** SS & LS | | | | | | |
| **Equipped with a catalytic combustor?** ☐Yes ■No | | | | | | |
| **Mailing Address:** AJ Wells and Sons Ltd, dba Charnwood | | | | | | |
| **Street Address:** Bishops Way | | | | | | |

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| | | |
|---|---|---|
| **City:** Newport | **State:** Isle of Wight, United Kingdom | **ZIP Code:** PO30 5WS |
| **Phone:** +44 1983 527552 | **Fax: NA** | **Web Site:** www.charnwood.com |
| **Address of Manufacturer:** Same | | |
| **City:** | **State** | **ZIP Code** |
| **EPA APPROVED TEST LABORATORY** | | |
| **Name and Title of Authorized Representative:** Sebastian Button, Laboratory Manager | | |
| **Company:** PFS TECO | | |
| **Phone:** 503-650-0088 | **E-mail:** sebastian.button@pfsteco.com | **Fax:** |
| **City:** Clackamas | **State:** OR | **ZIP Code:** 97015 |
| **EPA APPROVED THIRD-PARTY CERTIFIER** | | |
| **Name and Title of Authorized Representative:** John Steinert Vice President Hearth Products Division | | |
| **Company:** PFS TECO | | |
| **Phone:** 503-650-0088 | **E-mail:** john.steinert@pfsteco.com | **Fax:** |

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| City: | State: | ZIP Code: |
|---|---|---|
| Clackamas | OR | 97015 |
| **COMPLIANCE TEST INFORMATION** | | |
| **Test Method(s):** ASTM E3053-17 Cordwood Test Method w/ EPA ATM 125, ASTM E2515, CSA B415.1-10 | | |
| **Date(s) of Proposed Test:** Week of January 10, 2022 | | |
| **Testing Location:** PFS TECO 11785 SE Highway 212 -Suite 305, Clackamas, OR 97015 | | |

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Paul Wells, Technical Director
**Print Name and Title of Authorized Official**

**Signature** F. Wells

22-Nov 2021
**Date**

**Telephone Number:** +44 1983 537770

**Email Address:** paul.wells@ajwells.co.uk

**Remarks:** EPA Retest.

**v1**

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
RESEARCH TRIANGLE PARK, NC 27711

FEB 2 8 2018

OFFICE OF
AIR QUALITY PLANNING
AND STANDARDS

Mr. Justin White
Hearthstone QHPP, Inc.
#17 Stafford Ave.
Morrisville, VT 05661

Dear Mr. White,

I am writing in response to your letter dated January 12, 2018, regarding wood heaters manufactured by Hearthstone QHPP, Inc. (Hearthstone). This response, dated February 28, 2018, supercedes our previous response (dated February 26, 2018) to correct an inaccuracy regarding required changes to ASTM E3053-17.

You are requesting to use an alternative test method, using cord wood, as referenced in section 60.532(c) of 40 CFR part 60, Subpart AAA, Standards of Performance for New Residential Wood Heaters (Subpart AAA) to meet the 2020 cord wood alternative compliance option. The 2020 cord wood alternative compliance option states that each affected wood heater manufactured or sold at retail for use in the United States on or after May 15, 2020, must not discharge into the atmosphere any gases that contain particulate matter in excess of 2.5 g/hr. Compliance must be determined by a cord wood test method approved by the Administrator along with the procedures in 40 CFR 60.534. You have requested approval to use the procedures and specifications found in ASTM Method E3053-17, a cord wood test method titled, "Standard Test Method for Determining Particulate Matter Emissions from Wood Heaters using Cordwood Test Fuel," in conjunction with ASTM E2515-11 and Canadian Standards Administration (CSA) Method CSA-B415.1-10, which are specified in 40 CFR 60.534.

We understand that Hearthstone is also requesting that the alternative method proposed above be approved to apply broadly to all wood heaters manufactured by Hearthstone meeting the requirements of Subpart AAA, from the approval date of this request until such time that Subpart AAA is revised or replaced to require a different cord wood certification method, providing all requirements of section 60.533 of Subpart AAA are met.

With the caveats set forth below, we approve your alternative test method request for certifying wood heaters using ASTM E3053-17 in conjunction with section 60.534 of Subpart AAA to meet the 2020 cord wood compliance option until such time that Subpart AAA is revised or replaced to require a different cord wood certification method. We also approve application of this alternative method to all wood heaters manufactured by Hearthstone meeting the requirements of Subpart AAA.

As required in Subpart AAA, section 60.354(d), you or your approved test laboratory must also measure the first hour of particulate matter emissions for each test run using a separate filter in one of the two parallel sampling trains. These results must be reported separately and also included in the total particulate matter emissions per run. Also, as required by Subpart AAA, section 60.534(e), you must have your approved laboratory measure the efficiency, heat output, and carbon monoxide emissions of the tested wood heater using CSA-B415.1-10. For measurement of particulate matter emission concentrations, ASTM 2515-11 must be used.

The following change to ASTM E3053-17 must be followed:

1. Coal bed conditions prior to loading test fuel. The coal bed shall be a level plane without valleys or ridges for all test runs in the high, low, and medium burn rate categories.

The following changes to ASTM E2515-11 must be followed:

1. The filter temperature must be maintained between 80 and 90 degrees F during testing.
2. Filters must be weighed in pairs to reduce weighing error propagation; see ASTM 2515-11, Section 10.2.1 Analytical Procedure.
3. Sample filters must be Pall TX-40 or equivalent Teflon-coated glass fiber, and of 47 mm, 90 mm, 100 mm, or 110 mm in diameter.
4. Only one point is allowed outside the +/- 10 percent proportionality range per test run.

A copy of this letter must be included in each certification test report where this alternative test method is utilized.

It is reasonable that this alternative test method approval be broadly applicable to all wood heaters subject to the requirements of 40 CFR part 60, Subpart AAA. For this reason, we will post this letter as ALT-125 on our website at *http://www3.epa.gov/ttn/emc/approalt.html* for use by other interested parties. As noted earlier in this letter, this alternative method approval is valid until such time that Subpart AAA is revised or replaced to require a different cord wood certification method, and at such time, this alternative will be reconsidered and possibly withdrawn.

If you have additional questions regarding this approval, please contact Michael Toney of my staff at 919-541-5247 or toney.mike@epa.gov.

Sincerely,

Steffan M. Johnson, Group Leader
Measurement Technology Group

cc: Amanda Aldridge, EPA/OAQPS/OID
Adam Baumgart-Getz, EPA/OAQPS/OID
Rafael Sanchez, EPA/OECA
Michael Toney, EPA/OAQPS/AQAD