



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
RESEARCH TRIANGLE PARK, NC 27711

February 3, 2021

OFFICE OF  
AIR QUALITY PLANNING  
AND STANDARDS

Mr. Lennart Aronsson  
Research Institutes of Sweden  
Box 857, SE-501 15  
Borås, Sweden

Dear Mr. Aronsson,

The State of Alaska recently completed an independent review of over 200 compliance tests submitted to the Environmental Protection Agency (EPA) to support Step 2 certification applications for wood heater appliances. Alaska reviewed these reports to ascertain what newly certified appliances could be accepted into their program. Based on that review, Alaska determined that every test report had deficiencies and, as a result, has not cleared any appliance models for sale in Alaska. Please note that Alaska is a state that is highly dependent on wood heating as a source for home heating and a fine particulate matter (PM<sub>2.5</sub>) nonattainment designation has the North Star Borough in a very difficult situation needing the emissions reductions from certified lower emitting appliances.

(<https://dec.alaska.gov/air/burnwise/manufacturers-vendors/>)

Since the 2015 rulemaking (80 FR 13672; March 16, 2015), EPA has relied on third party certification review and assurances that the test reports coming from your laboratories are accurate and represent all required documentation collected in a manner consistent with regulatory requirements and specific test method criteria. The findings identified by Alaska reveal that there are serious and systematic problems to be addressed in the testing and third-party certification processes.

Staff in the Measurement Technology Group within my division are now working with staff from the Office of Enforcement and Compliance Assurance's (OECA) Office of Compliance (OC) to review the findings from Alaska for current certified appliances as well as provide a more rigorous review of the test reports and other information that accompany all new applications for certification submitted to the Agency. For the review of those certified appliances, we are employing a template spreadsheet similar to the one used by the State of Alaska in their review. We will notify Alaska of where our findings differ from theirs and, if we find inconsistencies between their evaluation process and ours, we will work with them to help them understand the technical basis for our determination. This will be done in an effort to both verify their findings and provide clarity and transparency to the overall review process. To date, we have seen sufficient information to anticipate a number of major findings. This memorandum serves as notice that the EPA will reject submitted test reports that do not meet the regulatory and test method-specific requirements laid out within 40 CFR 60, subparts AAA and QQQQ, and

will also seek corrected test reports where documentation is missing, calculations are incorrect, and/or where other requirements are not demonstrated by the report documentation as being met. Rejection of the test report will result in your client's heater not being certified, which could result in additional costs to the manufacturer. For appliances where the manufacturer has already submitted test reports to the Agency and received certification, following our review and depending on the individual situation, we may require additional information, corrected reports, or new test runs to replace invalidated test runs. If an entire test report is invalidated, the certifications for those models will be revoked.

EPA regulations place the responsibility for compliance with the Wood Heater Rule requirement on each manufacturer, which is why they will be notified of any deficiencies in their testing or certification documentation by OECA. We anticipate that your clients will contact you for information to address any identified deficiencies including any testing or revised reports necessary to demonstrate full compliance. If EPA notifies your clients of unacceptable testing or insufficiently documented test reports, you will also be notified, with a copy to your ISO accrediting bodies, so that you can conduct root cause analyses, document resolutions and new standard operating procedures (SOPs) that address the itemized concerns provided. We expect that future audits will include reviews of your documentation demonstrating how you have addressed these issues and modified your process(es) to prevent future occurrences. If such issues are not resolved, the EPA would proceed to revoke your EPA Approved Lab status. Third-Party Certifiers also have a significant responsibility, and those individuals will be receiving similar letters regarding their ISO Accreditation and Approval status with the Agency.

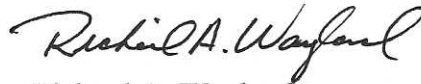
The testing and certification of these appliances is a key aspect of EPA's wood burning appliance regulatory program. The work done in your labs is more than a pass/fail process for these appliances. Millions of dollars are being spent in airsheds across the country on change-out programs intended to replace older, dirtier appliances with newer, clean burning appliances and the data that you provide your clients in the test reports are used for determining whether or not your clients' appliances are chosen to participate in these programs. These test reports are intended to not only make a pass/fail statement about the appliance's performance during the test, but they **must** include sufficient documentation to provide the Administrator (or a state with rule delegation) with a full data set with which to assess the compliance status of the appliance as tested, from raw data sheets to reported emissions. Alaska had a reasonable expectation that these test reports would be complete and would provide them with the information needed to help them with their decisions. In addition, your clients had a reasonable expectation that the information needed by Alaska to make their decisions could be found in the test report and certification documentation. Other state air programs are also looking at wood burning appliances for change-out programs and replacement criteria. We intend to see that future testing and the documentation included in test reports are all appropriate for determining compliance with the Federal rules, and with respect to helping our regulatory partners implement meaningful programs to protect human health and the environment.



The EPA appreciates your participation in providing your clients with appropriate testing, thoroughly documenting test results, and in helping us implement a program that delivers results to the American public.

For questions about this memorandum, or the process laid out within, please contact Mr. Steffan Johnson ([johnson.steffan@epa.gov](mailto:johnson.steffan@epa.gov)), Leader of the Measurement Technology Group.

Sincerely,



Richard A. Wayland

Director, Air Quality Assessment Division

cc:

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