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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

April 28, 2023

MEMORANDUM

SUBJECT: Response to Office of Inspector General Final Report: "The EPA's Residential Wood

Heater Program Does Not Provide Reasonable Assurance that Heaters Are Properly Tested and Certified Before Reaching Consumers." Report No. 23-E-0012, February 28,

2023

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Joseph Goffman

Principal Deputy Assistant Administrator

Office of Air and Radiation

TO: Sean W. O'Donnell

Inspector General

EPA's Office of Enforcement and Compliance Assurance (OECA) and Office of Air and Radiation (OAR) appreciate the opportunity to provide you with a final response on the Office of Inspector General (OIG) report, "The EPA's Residential Wood Heater Program Does Not Provide Reasonable Assurance that Heaters Are Properly Tested and Certified Before Reaching Consumers." This final response reflects the beneficial collaboration between OECA, OAR, and OIG staff after the subject report was issued to identify the corrective actions that EPA will implement to resolve the report's recommendations. We appreciate your staff's assistance and have provided those corrective actions below.

EPA agrees with the OIG on the importance of an effective wood heater regulatory program for ensuring that wood heaters that are sold for home use are clean-burning and compliant with regulatory standards. We are committed to ensuring all wood heaters are in compliance with regulatory requirements that are intended to reduce health-harming pollution. As you know, EPA has already made significant progress in addressing the systemic problems that the OIG identified with wood heater certification testing, including:

Rigorously re-reviewing all existing residential wood heater Certificates of Compliance and
instituting a process for consistent reviews of test reports, notifying wood heater manufacturers
of the need to correct test deficiencies, and proceeding with the Certificate of Compliance
revocation process, when necessary.

- Notifying testing labs and third-party certifiers of the need to improve testing and reporting practices or risk having their EPA approval status revoked.
- Withdrawing test methods based on ASTM E3053 (ALT-125 and ALT-127) that were used to certify residential wood heaters after states raised concerns about them.
- Working to develop a new cord wood test method that is supported by sufficient data.
- Engaging regularly with our regulatory partners and other stakeholders on technical and policy issues to ensure that certification testing is conducted in a sufficient manner for determining compliance and for assisting state/local air programs to implement meaningful wood heater change-out programs.

While briefly alluding to some of these improvements, the OIG report concludes that EPA does not have an effective program for testing and certifying wood heaters. While EPA believes that this conclusion creates a mistaken impression of the current residential wood heater program given the comprehensive suite of actions that EPA has already undertaken, we do agree that further improvements are needed to regain the public's trust. Accordingly, we provide the below table with the corrective actions resolving the OIG report's recommendations, including estimated timeframes for completion.

Table of Corrective Actions

Rec	OIG Report	Corrective Actions	Completion Dates
#	Recommendations		
1a	OECA Recommendation: Issuing a standardized certification test report template.	EPA agrees with this recommendation. EPA's Electronic Reporting Tool (ERT) has been updated to include a Wood Heater Application and Certification Module allowing manufacturers to use and submit a standardized certification test report. Until the New Source Performance Standard (NSPS) is revised to require electronic reporting, the use of the ERT wood heater module continues to be voluntary. However, OECA is heavily promoting its use.	Completed: ERT has been updated to include a Wood Heater Module https://www.epa.go v/electronic- reporting-air- emissions/electroni c-reporting-tool-ert
		We are actively talking to wood heater manufacturers and testing labs about the benefits of using the ERT. In February 2023, OECA met with the Hearth, Patio & Barbecue Association (HPBA) and certain HPBA member wood heater manufactures and explained that using the ERT will result in applications for Certificates of Compliance (and renewals) being expedited as they will more likely be free from errors and missing information. At the March 2023 HPBA Expo attended by member wood heater manufacturers and testing labs, OECA further promoted the	June 30, 2023: ERT training for OECA staff/contractor

		use of the ERT during OECA's wood heater certification session.	
		Additionally, we are conducting in-depth training for both our staff and contractor to ensure wood heater manufacturers and testing labs have sufficient support when using the ERT and can have their questions adequately addressed in a timely manner.	August 31, 2023: Update Wood Heater CM page with ERT information
		OECA will also continue to consider other means to encourage the use of the ERT such as updating the agency's wood heater compliance monitoring (CM) page to provide additional information on the ERT and the benefits of using it.	
1b	OECA Recommendation: Developing policies and procedures that detail how to conduct in-depth reviews of certification test reports.	EPA agrees with this recommendation. In consultation with OAR, OECA will continue to review the wood heater certification program and take additional action as appropriate, including the development of policies and procedures that detail how we will conduct indepth reviews of certification tests. For example, the policies and procedures may include details related to the timing and process for reviewing and updating our test report review checklist. They may also include details related to conducting in-depth reviews for all test reports or a subset of test reports, as appropriate, by our staff and contractor (with the support of OAR's technical expertise).	November 1, 2024
1c	OECA Recommendation: Periodically observing certification testing.	EPA agrees with the spirit of this recommendation. We understand that the required 30-day testing notice is considered overly burdensome by some wood heater manufacturers and that EPA and delegated states have infrequently opted to observe certification tests. Therefore, given the other oversight tools available to ensure valid tests, OECA will coordinate with OAR in reconsidering this 30-day testing provision as the agency engages in the effort to revise the NSPS. For example, such reconsideration may take into account, among other things, the concerns of interested parties (e.g., the potential burden placed on manufacturers; the benefit for EPA and delegated states to have the	November 30, 2027, in coordination with rule revisions

		opportunity to observe certification tests); the	
		possibility to revise the testing notice provision	
		rather than remove the requirement (e.g.,	
		change the required timeframe from 30 days to	
		something less; allow a waiver from such notice	
		upon request); and the potential for having certification tests observed virtually and how	
		such virtual observation could impact the need	
		for prior notice of such testing.	
		Other oversight tools include: Laboratory	
		Proficiency Test Program; rigorous in-depth	
		reviews of all certification test reports; the	
		enhanced use of the ERT and standardized	
		certification test reports to improve the review of such reports (with ERT use becoming	
		required upon revision of the rule); the	
		development and implementation of guidance	
		on conducting compliance audit tests; and	
		timely notifying testing labs and third-party	
		certifiers of identified testing and reporting	
		deficiencies and warning of possible revocation	
1.1	OECA	of EPA approval status, as appropriate.	A
1d	Recommendation:	EPA agrees with this recommendation. OECA will develop and implement guidance	April 1, 2024
	Developing and	concerning compliance audit tests. To ensure	
	implementing guidance	compliance audit tests are properly performed	
	for conducting	consistent with the NSPS and in an appropriate	
	systematic compliance	manner, we anticipate developing and	
	audit tests.	implementing an internal agency guidance that	
		may provide instruction on issues such as the	
		rationale for choosing a particular wood heater	
		for audit testing, the frequency for conducting audit tests, and the process for ensuring the	
		chosen audit test heater is properly transported	
		to the testing lab for testing.	
2	OECA	EPA agrees with this recommendation. OECA	November 1, 2024
	Recommendation: In	and OAR will further define respective roles	
	consultation with OAR,	and responsibilities by reviewing the current	
	define roles and	Delegation of Authority concerning the Wood	
	responsibilities within and between OECA and	Heater Program and determining whether and how to revise it.	
	OAR for the residential	now to levise it.	
	wood heater program, so	Any revisions to the Delegation of Authority	
	that sufficient subject-	will be reflected in the policies and procedures	
	matter expertise and	detailing how we will conduct in-depth reviews	
	resources are leveraged		

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	to ensure that	of certification tests that will be developed	
	certification test reports	pursuant to Recommendation 1b above.	
	are substantively		
	reviewed.		
3	OECA	Residential wood heaters certified using the	Completed:
	Recommendation:	now-withdrawn test methods based on ASTM	Development and
	Develop and implement	E3053 continue to have legally valid	implementation of
	a plan to demonstrate	Certificates of Compliance pursuant to the CAA	plan to address
	whether residential wood	and 2015 NSPS as long as the test reports had	heaters certified
	heaters certified using	no irregularities/problems and no other testing	using test methods
	the test methods based	deficiencies have been identified. However,	based on ASTM
	on ASTM E3053	EPA has developed and is implementing a plan	E3053
			E3033
	comply with the New	to address heaters certified using the test	1 20 2022
	Source Performance	methods based on ASTM E3053. Please see the	June 30, 2023:
	Standards for residential	Wood Heater Compliance Monitoring webpage	Initial development
	wood heaters.	(https://www.epa.gov/compliance/wood-heater-	and issuance of the
		<u>compliance-monitoring-program</u>) and the	two lists of wood
		Federal Register Notice announcing the	heater model lines
		withdrawal of the applicable alternative test	
		methods	
		(https://www.federalregister.gov/documents/20	
		22/01/24/2022-01298/withdrawal-of-broadly-	
		applicable-alternative-test-methods).	
		/	
		That said, OECA agrees with the spirit of this	
		recommendation and understands the OIG's	
		concerns, especially those related to the	
		uncertainty for states that are concerned about	
		relying on the EPA's certification process to	
		_ , _	
		identify wood heaters to sell in their states or	
		for their changeout programs. Accordingly,	
		OECA will provide OAR and/or the EPA	
		Regions directly with two lists of wood heater	
		model lines. The first list is the "federally	
		cleared list" and will provide model lines that	
		have undergone an in-depth review and were	
		cleared of any identified deficiencies. OECA	
		will update this list to add newly reviewed and	
		cleared model lines on a quarterly basis.	
		The second list will include model lines	
		certified using the now-withdrawn broadly	
		applicable cordwood test methods (ALT 125	
		and ALT 127) based on ASTM E3053). OECA	
		will regularly update this list to remove the	
		wood heater model lines that have been retested	
		with a new valid certification test using an	
		with a new valid certification test using an	

	1		· · · · · · · · · · · · · · · · · · ·
		EPA-approved test method. The two lists together help clarify the EPA's confidence level in the certification status of these model lines. The EPA Regions may then share the two list with their states that are interested in factoring this information into wood heater related decision making. As is already the case, manufacturers may retest at any time and do not have to wait until their current Certificates of Compliance expire to submit renewal applications. OECA will also expedite its review of any such early renewals. Making the cordwood model line list available to EPA Regions and states and committing to expedite our review of these renewal applications may help encourage manufacturers	
4	OAR Recommendation: Incorporate the EPA's certification test report expectations set forth in the April 2022 corrective action list into the upcoming revisions to the New Source Performance Standards for residential wood heaters.	EPA agrees with this recommendation. These revisions will take place through rulemaking that involves a cross agency workgroup. Before EPA proposes changes to these subparts, we need to promulgate new test methods that we are vetting in an extensive precision study, a project now about half-way through. These test methods are specific to <i>Recommendation 5</i> , and these form the critical project path toward NSPS revision, meaning that these must be finalized before revision(s) to the NSPS so that they may be incorporated into the future rule revision. We anticipate moving to revise the NSPS after the test methods have been finalized and a new emissions standard has been determined through data review, as laid out in our response to recommendation #5. With those method promulgation milestones as guideposts, we anticipate a new NSPS proposal in late 2026 or early 2027, depending on small business panel review. Finalizing this rule would follow 12 to 18 months for comment, response and briefings	November 30, 2027 estimated final rulemaking
5	OAR Recommendation:	response and briefings. EPA agrees with this recommendation and we	Wood Heater IDC –
	Develop and adopt an	are approaching the half-way mark of this	Propose in June
	EPA cord wood test	effort. We must promulgate these through	2024, finalize in
	method that is supported	notice and comment rulemaking, just like any	June 2025
	by data to provide the	other regulation, and so there is a good bit of	
	public reasonable	time involved in the overall process of	

assurance that certified appliances meet emission standards.

finalizing four separate test methods: one for each appliance category. As we finalize each of these, we will hit a key milestone along the way toward meaningful change to EPA's Residential Wood Heating regulations, including substantial changes to the measurement of particulate emissions. We do not have hard deadlines for reaching these milestones as the process of test method development may call for delays while concerns or issues are dealt with and corrections made leading to a draft final, however once we reach a draft final stage, we will be proposing each of these methods, in turn. Our current expectation for this timeline is, at this time, expected to be as follows:

Wood Heater IDC – Propose in June 2024, finalize in June 2025

Wood Boiler IDC – Propose in December 2024, finalize in December 2025

Pellet Heater IDC – Propose in September 2024, finalize in September 2025

Wood Furnace IDC – Propose in June 2025, finalize in June 2026.

Following promulgation of each of these test methods we will evaluate our status with respect to data collected with the test method during the precision evaluation AND additional data provided by our NYSERDA and NESCAUM partners in this project to see if we have sufficient data using that test method to support promulgation of a new cord wood standard for that appliance category in a new regulatory proposal. Where we find ourselves needing additional data, we will need to conduct additional testing to support development of a new standard for that appliance category. The new rule will need sufficient data to support new emissions standards that, in turn, rely on the new measurement methods for compliance demonstration testing.

Wood Boiler IDC – Propose in December 2024, finalize in December 2025

Pellet Heater IDC – Propose in September 2024, finalize in September 2025

Wood Furnace IDC – Propose in June 2025, finalize in June 2026.

November 30, 2027 estimated final rulemaking

OAR Recommendation:
Establish mechanisms to
promote independence
between emissions
testing labs and thirdparty certifiers.

EPA agrees with this recommendation and we will incorporate changes to this paradigm in the rulemaking whose schedule we've laid out in reply to recommendation 4, above. In the interim we will continue our oversight of EPA Approved Test Laboratories and Third-Party Certifiers as we have been; sending letters requesting correction to processes and procedures, review of SOP's, and making sure to copy their ISO Accrediting body on the email. This ensures that those requested reviews and adjustments must happen, per ISO requirements, prior to their next audit by the Accrediting body, and that they must demonstrate the corrective measures have been assessed and new procedures resolve the concern(s). Since the 2015 rule effective date, OAR has sent several letters to test labs; one of which directly dealt with the relationship between a test lab and its third-party certification group. Additionally, OAR will continue our oversight of the EPA Approved Test Lab Proficiency Test program; a process instantiated in the rule but without structure. OAR worked closely with all test labs to develop the program and we are continuing to implement this regulatory provision. While we have heard complaints from test labs regarding the cost of this program, we recognize this as an important step in keeping the field level across laboratories. OAR also has plans to begin inperson inspections of laboratories and their procedures in order to better understand the current status of the various laboratories and their particulate measurement practices. Finally, OAR has secured program funding to add one full time FTE dedicated to wood heater test method development and oversight of

November 30, 2027 estimated final rulemaking

If you have any questions regarding this final response, please contact Gwendolyn Spriggs, OECA Audit Liaison, at spriggs.gwendolyn@epa.gov or (202) 564-2439, or Grant Peacock, OAR Audit Liaison, at peacock.grant@epa.gov or 202-564-6732.

laboratory and third-party certifiers.

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