

EPA Tools & Resources Webinar

PFAS Destruction by a Hazardous Waste Incinerator

Wednesday, October 15, 2025, at 3:00 to 4:00 PM ET

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*Certificates
of attendance are
offered!*

The complete destruction of per- and polyfluoroalkyl substances (PFAS) is important to help protect human health and the environment. Technologies that can destroy PFAS are needed to treat stockpiles of materials with high concentrations of PFAS, such as aqueous film forming foam (AFFF) and other contaminated environmental matrices. PFAS properties make them difficult to destroy, and other fluorinated compounds and PFAS may be formed as byproducts (known as products of incomplete destruction or PIDs) if conditions are not adequate for their destruction. It is important to evaluate the efficacies of various technologies for the destruction of PFAS.

Appendix A of EPA's [2024 Interim Guidance on the Destruction and Disposal of PFAS and Materials Containing PFAS](#) provides guidelines to help evaluate a thermal treatment technology's PFAS destruction efficacy. This procedure evaluates the destruction and removal efficiencies, looks for PIDs, and provides data to determine if an easily measured, hard-to-destroy compound such as hexafluoroethane (C₂F₆) can be successfully used as an indicator of destruction. This presentation will describe the development of Appendix A and its use to evaluate thermal treatment technologies, including results of an evaluation of a full-scale hazardous waste incinerator to evaluate air emissions and the effectiveness of incineration. Results from the hazardous waste incinerator showed high destruction of PFAS (up to 99.9999% destruction and removal efficiencies), low to non-detectable levels of PIDs, and over 99.99% destruction of C₂F₆. This shows promise for both incineration and the ability to conduct a comprehensive characterization of an incinerator.



Who should attend? State, territorial, tribal, and local environmental and public health agencies, community organizations, and others interested in learning about PFAS destruction.

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