



INTERSTATE TECHNOLOGY & REGULATORY COUNCIL

ATTENTION

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**TECHNICAL REQUIREMENTS
FOR
ON-SITE LOW TEMPERATURE THERMAL TREATMENT
OF
NON-HAZARDOUS SOILS CONTAMINATED WITH PETROLEUM/ COAL TAR/ GAS PLANT WASTES**

- Final-

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Prepared by

The Interstate Technology and Regulatory Cooperation

Low Temperature Thermal Desorption Task Group

Overview

Low Temperature Thermal Desorption (LTTD) is a treatment technology which removes contaminants from solid media (e.g., soils) by volatilizing them with heat, but without combustion of the media. LTTD has been widely used in treating petroleum contaminated wastes and is being used increasingly in the cleanup of manufactured gas plant (MGP) wastes and hazardous constituents, notably chlorinated solvents and pesticides.

Goals of the LTTD Task Group were:

to produce a standard set of technical requirements which could serve as a model to allow the LTTD technology to move from state to state, without unnecessary redevelopment of technical requirements;

to improve market conditions for LTTD technology providers by providing a degree of consistency and predictability in technical requirements for implementation of the technology for cleanup;

to develop a viable, repeatable process for interstate cooperation directed toward enhancing implementation of innovative technologies and innovative application of existing technologies to site cleanup;

to provide a framework for states which have no specific regulatory requirements for LTTD should they choose to develop those requirements and to provide a gauge for states which do have requirements to assess those requirements in light of the common requirements of other states;

to provide a template of technical requirements which could be used as a model for other technologies for all functions presented above.

Approach

The LTTD Task Group began the technical requirements development process by addressing treatment of non-hazardous soils because they felt the effort would be relatively straightforward. The task group intends for the next version of the LTTD technical requirements document to address treatment of hazardous waste, specifically soils contaminated with chlorinated constituents. They plan to use firsthand experience gained from the Rocky Flats LTTD DOIT Demonstration, as well as expertise of knowledgeable vendors who are beginning to deploy LTTD in the field for the cleanup of hazardous