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Characterization of Emissions from Heaters Burning Leaded Diesel Fuel inUnvented Tents

Authors: [Yung Sung Cheng](#); [LOVELACE BIOMEDICAL AND ENVIRONMENTAL RESEARCH INST ALBUQUERQUE NM](#)

Abstract: The purpose of this study is to simulate human exposure to aerosols produced by unvented heaters in tents used in the Persian Gulf, so that the contribution of exposure to this in-tent pollutant can be estimated. The specific aims include: 1. Physical and chemical characterization of aerosols produced by heaters that burned fuels in an unvented tent. 2. Estimation of exposure to particulate matter (PM), combustion gases (such as CO, NOx, and SO2), and other compounds (such as lead, PAHs etc.). During the first year of the project, we had extensive discussions with several Army laboratories on tents, tent heaters (US Army, Natick Research Development and Evaluation Center), and fuels (Fuels & Lubricants Technology Team, Mobility Technology Center - Fort Belvoir). Based on these discussions, it was determined that the unvented heaters most likely used in the Gulf War were commercial units that burned kerosene and aviation fuels, primarily JAI and JP8 fuels which are kerosene-based and have similar compositions.

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