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## Chemical Characterization and Toxicological Evaluation of Airborne Mixtures; A System for Generating Mixed Aerosols from a Petroleum Based Liquid and a Fine Solid

 Authors: [Jack H. Moneyhun](#); [Roger A. Jenkins](#); [Tom M. Gayle](#); [OAK RIDGE NATIONAL LAB TN](#)

**Abstract:** As an ongoing effort on the part of the U.S. Army to investigate the toxic potential of various materials employed as obscurants, a laboratory scale system is required to generate in a controlled manner, mixed aerosols from a petroleum based liquid (PBL) and a candidate solid material. The aerosols are to mimic those generated by the field unit, which is capable of delivering several gallons of the PBL and several pounds of the solid per minute. The laboratory generator must deliver these components continuously for several hours at concentrations levels of 0.1 mg/L - 5 mg/L. The aerosol so generated will be diluted in air (ca. 500 L/min) and delivered into test chambers where animals will be contained for inhalation toxicological studies. Keywords: Aerosol generator; Petroleum based liquid; Solids dispersion system; Jet mill; Evaporation/condensation aerosol; Particle size; Bi-phasic aerosol. (jes)

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