

6/16/2016

Results of the CPT Destruction and Removal Efficiency

The Comprehensive Performance Test was conducted on May 18th to the 24th, 2016, for the destruction of M6 propellant and clean burning igniter. In addition to verifying the accuracy of the analyzers and other quality assurance requirements, the Test determined the Destruction Removal Efficiency (DRE) for the three Principal Organic Hazardous Constituents contained in the material that were the hardest to completely burn. Emissions from three separate test runs [each consisting of destroying 12, 880 pound batches material] were conducted. The conservative average DRE for each of these hydrocarbons were found to be:

Dinitrotoluene	99.9997%
Diphenylamine	99.9986%
Dibutyl phthalate	99.9994%

This means that the regulatory limit of 'Four 9's' destruction efficiency, or 99.99% was achieved for each hydrocarbon. This also means that very small amounts of these compounds would be emitted. The total amount of these hydrocarbons from total destruction of 15,000,000 pounds of propellant will be

Dinitrotoluene	less than 4.5 pounds
Diphenylamine	less than 2.1 pounds
Dibutyl phthalate	less than 2.7 pounds