



U.S. ARMY PUEBLO CHEMICAL DEPOT FACT SHEET

REAL TIME ANALYTICAL PLATFORM

Chemical Agent Monitoring

The Real Time Analytical Platform (RTAP) is a self-contained mobile monitoring and detection system. Pueblo Chemical Depot (PCD) RTAPs use gas chromatographs called Miniature Continuous Air Monitoring Systems (MINICAMS®) that can detect agent within six to nine minutes.

The RTAP can detect chemical agent vapors at levels lower than those that would cause effects to unprotected persons. These levels are equal to the Department of Health and Human Services requirements for the levels of agent unmasked workers can be exposed to for a 40-hour work week with no harmful effects.

The RTAP is used to support personnel with real-time monitoring requirements for chemical agent storage operations. The units are also used to support Chemical Stockpile Emergency Preparedness Program requirements.

Proper operation of the RTAP is verified using strict quality control procedures.

MINICAMS®

PCD primarily uses the MINICAMS®. These near-real-time monitors sample the air every six to nine minutes and are capable of 24-hour operation when monitoring igloos. Near-real-time data collection is the ability to collect data automatically and have the data delivered and analyzed quickly enough to affect monitoring and control decisions. MINICAMS® are very sensitive and can detect extremely low levels of chemical agent vapor by using a process called gas chromatography.

DAAMS

The Depot Area Air Monitoring System (DAAMS) is a portable air sampling unit that draws a controlled volume of air through a glass tube filled with a sorbent material. Chemical agent vapors are collected on the sorbent material. Sampling times vary from as few as 30 minutes to 12 hours. After sampling is complete, the tubes are removed from the DAAMS station and sent to the laboratory for analysis within 72 hours.



RTAP monitoring a chemical agent storage structure



MINICAMS®



DAAMS

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