

FACT SHEET

Office of the Assistant Secretary of Defense (Health Affairs) **Deployment Health Support Directorate**

> For more information (703) 578 - 8500 (800) 497 - 6261

Version 10-09-2002

Deseret Test Center

West Side, Phase I

Shortly after President Kennedy's inauguration in 1961, the Secretary of Defense, Robert McNamara, directed that a total review of the U.S. military be undertaken. The study consisted of 150 separate projects. The chemical and biological warfare review was known as Project 112. As part of the Project 112 review, the Joint Chiefs of Staff convened a working committee that recommended a research, testing, and development program for chemical and biological weapons. To oversee this program, the Deseret Test Center was established at Fort Douglas, Utah, in 1962. Both land-based and ship-based tests were conducted during the period 1962 – 1973. The Deseret Test Center closed in 1973.

The purpose of West Side, Phase I was to evaluate the A/B 45Y-4 dry agent disseminator in a frigid environment. The A/B 45Y-4 was wing-mounted on an F-105D aircraft. Specifically, the objectives of the test were to evaluate the source strength, dissemination efficiency, and functional characteristics of the dry disseminator with the simulant *Bacillus globigii*, and to measure the diffusion of particulate biological aerosols disseminated by line source in a cold-weather test environment. To aid this investigation, two tracer materials – green and yellow zinc cadmium sulfide (FP) – were disseminated from a light aircraft under similar test conditions.

West Side, Phase I was conducted in the Tanana Valley of central Alaska, near Fort Greely, during the period January 8 through February 21, 1965.

The Department of Defense (DoD) is providing this information, at the request of the Department of Veterans Affairs (VA), to assist the VA in providing healthcare services to qualified veterans and to assist veterans in establishing service connection for disability claims. The Deployment Health Support Directorate (DHSD) collected this information from multiple sources and requested that the military services declassify it to allow its public distribution. The VA accepts this information provided on location, dates, units and/or ships, and substances involved in this exercise, which DHSD extracted from classified DoD records, and will provide it to individual veterans as necessary, but the VA cannot verify its accuracy.

Test Name	West Side, Phase I (DTC Test 65-3)
Testing Organization	US Army Deseret Test Center
Test Dates	January 8 – February 21, 1965
Test Location	Tanana Valley of central Alaska near Fort Greely
Test Operations	To evaluate the A/B 45Y-4 dry agent disseminator in a frigid environment.
Participating Services	US Army, US Air Force, Deseret Test Center personnel
Units and Ships Involved	Not identified
Dissemination Procedures	Tracer material sprayed from an A/B 45Y 4 disseminator tank mounted on an F 105D aircraft.
Agents, Simulants, Tracers	Bacillus globigii Zinc Cadmium Sulfide (FP)
Ancillary Testing	Not identified
Decontamination	Not identified
Potential Health Risks Associated with Agents, Simulants, Tracers	Bacillus globigii (BG) Now considered to be Bacillus subtilis var. niger, a close relative of Bacillus subtilis, this bacterial species was used as a simulant and considered harmless to healthy individuals. Bacillus subtilis and similar Bacillus species are common in the environment, and are uncommon causes of disease. They have been associated with acute infections of the ear, meninges (brain lining), urinary tract, lung, heart valve, bloodstream, and other body sites, but always or nearly always in individuals whose health has already been compromised. Long-term or late- developing health effects would be very unlikely (except perhaps as a complication of the acute infection).

The Department of Defense (DoD) is providing this information, at the request of the Department of Veterans Affairs (VA), to assist the VA in providing healthcare services to qualified veterans and to assist veterans in establishing service connection for disability claims. The Deployment Health Support Directorate (DHSD) collected this information from multiple sources and requested that the military services declassify it to allow its public distribution. The VA accepts this information provided on location, dates, units and/or ships, and substances involved in this exercise, which DHSD extracted from classified DoD records, and will provide it to individual veterans as necessary, but the VA cannot verify its accuracy.

(Sources: Tuazon CU, <i>Other Bacillus Species</i> (chap. 197), in Principles and Practice of Infectious Diseases, 5 th edition (vol. 2), ed., Mandell GL, Bennett JE, Dolin R, Churchill Livingstone, Philadelphia, 2000, p. 2220-6; US Environmental Protection Agency, <i>Bacillus subtilis</i> Final Risk Assessment, February 1997, available at <u>http://www.epa.gov</u> as of October 4, 2002.)
Zinc cadmium sulfide (ZCdS) This compound was aerosolized as a tracer material for the dispersion of biological warfare agents because it had similar properties. There has been little scientific study on the toxicity of this compound when inhaled. A National Research Council (NRC) committee focused on the cadmium component as potentially most toxic. While higher concentrations and more prolonged exposures to cadmium are associated with the development of lung cancer, the concentrations and durations of exposure in the Army's tests were substantially lower. The NRC committee concluded that the risk of adverse health effects to populations in the area was low.
(Sources: National Research Council (National Academies), Toxicologic Assessment of the Army's Zinc Cadmium Sulfide Dispersion Tests, and Toxicologic Assessment of the Army's Zinc Cadmium Sulfide Dispersion Tests: Answers to Commonly Asked Questions, National Academy Press, Washington DC, 1997, both available at <u>http://www.nap.edu</u> as of October 1, 2002.)

The Department of Defense (DoD) is providing this information, at the request of the Department of Veterans Affairs (VA), to assist the VA in providing healthcare services to qualified veterans and to assist veterans in establishing service connection for disability claims. The Deployment Health Support Directorate (DHSD) collected this information from multiple sources and requested that the military services declassify it to allow its public distribution. The VA accepts this information provided on location, dates, units and/or ships, and substances involved in this exercise, which DHSD extracted from classified DoD records, and will provide it to individual veterans as necessary, but the VA cannot verify its accuracy.