

Uploaded to VFC Website October 2012

This Document has been provided to you courtesy of Veterans-For-Change!

Feel free to pass to any veteran who might be able to use this information!

For thousands more files like this and hundreds of links to useful information, and hundreds of "Frequently Asked Questions, please go to:

Veterans-For-Change

Veterans-For-Change is a 501(c)(3) Non-Profit Corporation Tax ID #27-3820181

If Veteran's don't help Veteran's, who will?

We appreciate all donations to continue to provide information and services to Veterans and their families.

https://www.paypal.com/cgi-bin/webscr?cmd=_s-xclick&hosted_button_id=WGT2M5UTB9A78

Note:

VFC is not liable for source information in this document, it is merely provided as a courtesy to our members.



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

Elk Hunt, 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 Elk Hunt, Phase I tests were designed to determine the amount of either standard or modified VX nerve agent picked up on the clothing of personnel traversing various types of contaminated terrain. The tests examined the length of time a barrier is effective in producing casualties. Elk Hunt, Phase I also compared pickup of agent when M23 mines filled with standard and modified VX nerve agent were detonated under water and under ground.

In Elk Hunt, Phase I, standard or modified VX nerve agent was disseminated from M23 mines detonated under ground in three types of terrain – shrubbery, wooded, and ground covered in rye grass – and under water. Personnel, assuming various tactical positions, traversed the contaminated test grids at specified times and the amount of VX picked up on their clothing was measured. Personnel wore complete, impermeable, butyl-rubber outfits and M9A1 masks.

Twenty trials were conducted in the vicinity of Fort Greely, Alaska from July 3 through August 15, 1964.

Test Name	Elle Hart Phase I (DTC Test (5.14)
	Elk Hunt, Phase I (DTC Test 65-14)
Testing Organization	US Army Deseret Test Center
Test Dates	July 3 – August 15, 1964
Test Location	Fort Greely, Alaska
Test Operations	To determine the amount of either standard or modified VX nerve agent picked up on the clothing of personnel traversing various types of contaminated terrain. To determine the length of time a barrier is effective in producing casualties. To compare pickup of agent when M23 mines filled with standard and modified VX are detonated under ground and under water.
Participating Services	US Army, Deseret Test Center personnel
Units and Ships Involved	Selected personnel assigned to HHC, 171st Infantry Brigade, 15th Artillery Battalion, 40th Armor Battalion, 4th Battalion, 9th Infantry, 1st Battalion, 47th Infantry, 538th Ordnance Company (Direct Support)
Dissemination Procedures	Standard or modified VX was disseminated from M23 mines detonated under ground and under water.
Agents, Simulants, Tracers	VX Nerve Agent Modified VX Nerve Agent (one percent polyisobutyl-methacrylate added as thickener)
Ancillary Testing	Not identified
Decontamination	Not identified

Detential Health Disla	VV Marrie A cant (Comparison Discussion of the
Potential Health Risks	$\frac{VX \text{ Nerve Agent}}{VX} - (\text{Synonyms: Phosphonothioic})$
Associated with Agents,	acid, VX)
Simulants, Tracers	VX nerve agent is extremely lethal. It is an oily
	liquid that is clear, odorless, and tasteless. Death
	usually occurs within 10-15 minutes after absorption
	of a fatal dosage. VX nerve agent is one of the most
	toxic substances ever synthesized. Symptoms of
	overexposure may occur within minutes or hours,
	depending upon the dose. They include: constriction
	of pupils, headaches, runny nose, salivation,
	tightness in the chest, nausea, vomiting, anxiety,
	difficulty in thinking, muscle twitches, tremors,
	and weakness. With severe exposure, symptoms
	progress to convulsions and respiratory failure.
	There is little information available regarding the
	long-term human health effects of exposure to low
	doses of VX.
	(Sources: Centers for Disease Control and
	Prevention http://www.bt.cdc.gov/Agent/Nerve/VX/
	ctc0006.asp [as of January 25, 2002]Zajtchuk R
	(ed.), Textbook of Military Medicine (part 1,
	Medical Aspects of Chemical and Biological War-
	fare, 1997), Office of the Army Surgeon General,
	Washington DC, 1997. SBCCOM Online,
	Edgewood Chemical Biological Center
	http://in1.apgea.army.mil:80/RDA/msds/vx.htm
	[as of April 2, 2002] World Health Organization,
	Department of Sustainable Development &
	Environmental Protection, <u>http://209.61.192.180/</u>
	phe/factsheet_5.htm [as of April 2, 2002]
	Department of the Army Pamphlet 40-8:
	Occupational Health Guidelines for the Evaluation
	and Control of Occupational Exposure to Nerve
	Agents GA, GB, GD, and VX
	http://books.army.mil:80/cgi-bin/bookmgr/BOOKS/
	P40_8/CCONTENTS [as of February 5, 2002])



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

Elk Hunt, Phase II

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 Elk Hunt, Phase II tests were designed to determine the amount of VX nerve agent picked up on the clothing of personnel traversing breached paths through contaminated areas and M23 minefields; the amount of VX nerve agent deposited on the surface of vehicles traversing VX-contaminated areas or under which an M23 mine had been detonated; the amount of VX nerve agent deposited on the clothing of personnel actively or passively contacting contaminated vehicles; vehicle decontamination by wet steam, high-pressure cold water hosing, and wallow pit; and, the amount of VX vapor rising from VX-contaminated areas.

Thirty-five trials were conducted near Fort Greely, Alaska, between June 7 and July 27, 1965. Five trials were conducted by the Canadian government in conjunction with the Deseret Test Center trials. Chemical Research and Development Laboratories, Edgewood Arsenal, Maryland, performed 11 additional vehicle decontamination trials from October 27 to December 17, 1965.

Personnel who participated in Elk Hunt, Phase II wore complete, impermeable butyl-rubber outfits and M9A1 masks.

Test Name	Elk Hunt, Phase II (DTC Test 65-14)
Testing Organization	US Army Deseret Test Center
Test Dates	June 7 – July 27, 1965 October 27 – December 17, 1965
Test Location	Fort Greely, Alaska Edgewood Arsenal, Maryland Canada
Test Operations	To determine the amount of standard VX nerve agent picked up on the clothing of personnel traversing paths formed by the breaching of minefields and areas contaminated by detonated M23 mines. Tests were made to determine the amount of VX nerve agent picked up by personnel contacting contaminated vehicles.
Participating Services	US Army, Deseret test personnel
Units and Ships Involved	Selected personnel assigned to HHC, 171st Infantry Brigade, 15th Artillery Battalion, 40th Armor Battalion, 4th Battalion, 9th Infantry1st Battalion, 47th Infantry, 538th Ordnance Company (Direct Support)
Dissemination Procedures	Standard VX was disseminated from M23 mines buried with pressure plates flush with the ground.
Agents, Simulants, Tracers	VX Nerve Agent
Ancillary Testing	Not identified
Decontamination	Wet steam, high-pressure cold water hosing, and wallow pit for decontaminating vehicles

Potential Health Risks Associated with Agents, Simulants, Tracers	VX Nerve Agent– Lethal Nerve Agent (Synonyms:Phosphonothioic acid, VX):VX nerve agent is extremely lethal. It is an oilyliquid that is clear, odorless, and tasteless. Deathusually occurs within 10-15 minutes after absorptionof a fatal dosage. VX nerve agent is one of the mosttoxic substances ever synthesized. Symptoms ofoverexposure may occur within minutes or hours,depending upon the dose. They include: miosis(constriction of pupils) and visual effects, headachesand pressure sensation, runny nose and nasal con-gestion, salivation, tightness in the chest, nausea,vomiting, giddiness, anxiety, difficulty in thinking,
	vomiting, giddiness, anxiety, difficulty in thinking, difficulty sleeping, nightmares, muscle twitches, tremors, weakness, abdominal cramps, diarrhea, involuntary urination and defecation. With severe exposure symptoms progress to convulsions and respiratory failure. The permissible airborne exposure concentration for VX nerve agent in any 8-hour work shift can be found in Department of the Army Pamphlet 40-8. To date, however, the Occupational Safety and Health Administration has not promulgated a permissible exposure concentration for VX nerve agent.
	(Sources: Centers for Disease Control and Prevention http://www.bt.cdc.gov/Agent/Nerve/VX/ ctc0006.asp [as of January 25, 2002].SBCCOM Online, Edgewood Chemical Biological Center http://in1.apgea.army.mil:80/RDA/msds/vx.htm [as of April 2, 2002].World Health Organization, Department of Sustainable Development & Environmental Protection, http://209.61.192.180/ phe/factsheet 5.htm [as of April 2, 2002]. Department of the Army Pamphlet 40-8: Occupational Health Guidelines for the Evaluation and Control of Occupational Exposure to Nerve

Agents GA, GB, GD, and VX, http://books.army.mil:80/cgi-bin/bookmgr/BOOKS/ P40 8/CCONTENTS [as of February 5, 2002]).