



**DEPARTMENT OF THE NAVY**  
NAVAL AIR WARFARE CENTER WEAPONS DIVISION  
1 ADMINISTRATION CIRCLE 575 I AVENUE SUITE 1  
CHINA LAKE, CA 93555-6100 POINT MUGU, CA 92042-5049

IN REPLY REFER TO:

5720  
Ser K00000D/311  
January 23, 2008

Michael Ravnitzky

Dear Mr. Ravnitzky:

This responds to your Freedom of Information Act (FOIA) request of October 6, 2007, in which you seek a copy of the document titled, "Weather Modification". Your request was transferred from the Chief of Naval Operations and received in this office on January 22, 2008, and assigned reference number NAWCWD20080029.

We have reviewed the attached document, which is responsive to your request, and have determined it can be released in its entirety.

There are no assessable fees associated with the processing of this portion of your request.

Sincerely,

JOHN McCOLLUM  
Counsel  
By direction of  
the Commander

# NON LETHAL WARFARE PROPOSAL

**TITLE:** WEATHER MODIFICATION

**TYPE OF EFFORT:** S&T

**PROPOSED BY:** Code C2741 (Warhead Development Branch) NAWCWPNB,  
China Lake, CA 93555-6001

**CAPABILITY & USES:** (1) To impede or deny the movement of personnel and material because of rains-floods, snow-blizzards, etc.  
(2) To disrupt economy due to the effect of floods, droughts, etc.

**TECHNICAL DESCRIPTION:** By way of background, weather modification was used successfully in Viet Nam to (among other things) hinder and impede the movement of personnel and material from North Viet Nam to South Viet Nam. Since that time military research on Weather Modification has dwindled in the United States but not necessarily in the Soviet Union (Russia). Commercial weather modification is an active industry.

The approach of this proposal is to (1) determine the current state-of-the-art technology in weather modification; (2) determine the applicability of current weather modification techniques and devices to military application and utilization; and (3) generate a E&MD Program Plan(s) to modify (or develop as necessary) weather modification techniques and devices suitable for military application. Current industrial techniques and devices are not likely to be suitable for military application or meet military requirements.

The successful completion of the proposed effort and the follow-on E&MD program(s) will give the U.S. military a viable, state-of-the-art weather modification capability again.

**RISK & LIMITATIONS:** The risk is low in that this initial proposed study effort/investigation and its assumed E&MD follow-on involve the modification of commercial techniques and devices to meet military applications and not the development of new technology.

The application of weather modification requires suitable meteorological conditions and, therefor, has that operational limitation.

I know of no countermeasures.

**PROJECT PLAN:**

ACTIVITY/FY	FY-1	FY-2
Determine State-of-Art	1/2 man-year/\$65K	
Investigate Applicability to Military Utilization	3/4 man-year/\$100K	3/4 man-year/\$105K
Generate Follow-on Proposals [E&MD(s)]		1/2 man-year/\$70K
<b>TOTALS</b>	<b>1 1/4 man-year \$165K</b>	<b>1 1/4 man-year \$175K</b>

**PROJECT COST BY FISCAL YEARS:**

<b>ACTIVITY/FY</b>	<b>FY-1</b>	<b>FY-2</b>
Labor/Overhead	\$165 K	\$170 K
Travel	8 K	10 K
Materials/Equipment	8 K	10 K
Contracts	40 K	50 K
<b>TOTALS</b>	<b>\$221 K</b>	<b>\$240 K</b>

**ORGANIZATIONAL CONTACT:**

James A. Weeks, Code C2741, NAWCWPNS, China Lake, CA 93555-6001  
Phone (619) 939-7701; DSN 437-7701; FAX (619) 939-7708