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041708Z MAR 09  
FROM  
FM NASIC WRIGHT PATTERSON AFB OH//DAKR//  
CONTROLS

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SECTION 1 OF 2

(b)(3):10  
USC 424

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DOCNO

(b)(3):10  
USC 424

SERIAL: (U) ICR NOM A-FTD-2140-0035-09 (HCR).  
/\*\*\*\*\* THIS IS A COMBINED MESSAGE \*\*\*\*\*/

(b)(3):10  
USC 424

BODY

PASS: (U) DIA

(b)(3):10  
USC 424

[Redacted] Exp (b)(6) FOR Exp (b)(6) Exp (b)(6)

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USC 424

[Redacted] USSTRATCOM FOR Exp (b)(6) Exp (b)(6)

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USC 424

[Redacted] NGIC TO Exp (b)(6) ONI FOR Exp (b)(6)

NASIC CYBER Exp (b)(6)

COUNTRY: (C) Exp (b)(1), E.O. 1.4(c)

SUBJ: (U) (U) WEATHER MODIFICATION...

SUMMARY: (S) [Redacted]

Exp (b)(1), E.O. 1.4(c)

TEXT: (U)

IPSP: (U) IFC2140; IFC1367.

PRIORITY: (U) 1.

NHCD: (U) 3238.1.4.5.7; 3465.1.1.18.1

EXPYRMO: (U) 1105.

BACKGD: (U)

1. (S/NF) [Redacted]

Exp (b)(1), E.O. 1.4(c)

(U) 2. (S/NF) THERE HAVE BEEN PERIODIC ATTEMPTS TO MODIFY THE ATMOSPHERE AND IONOSPHERE SINCE THE EARLY 1960'S, USUALLY WITH QUESTIONABLE RESULTS. NATIONAL MILITARIES HAVE BEEN INTERESTED IN WEATHER

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**MODIFICATION RESEARCH AS A TOOL TO END OR PREVENT ADVERSE WEATHER, TO PROTECT RESOURCES AND ENHANCE OPERATIONAL EFFECTIVENESS, OR TO CREATE INCLEMENT WEATHER TO HAMPER AN ADVERSARY'S COMBAT OPERATIONS. CIVILIAN AGENCIES HAVE PURSUED WEATHER MODIFICATION TO PREVENT SEVERE WEATHER DISASTERS, AID AGRICULTURE AND HYDRO-POWER GENERATION, AND ASSIST AVIATION AND SPACE PROGRAMS. DISAPPOINTING RESULTS AND LEGAL LIABILITY ISSUES HAVE GRADUALLY DECREASED GOVERNMENT FUNDING FOR WEATHER MODIFICATION IN THE US AND SOME EUROPEAN COUNTRIES, BUT RUSSIA, JAPAN, CHINA, OTHER ASIAN AND FORMER EASTERN BLOC COUNTRIES ARE STILL FUNDING SOME WEATHER MODIFICATION PROGRAMS. MIDEAST AND AFRICAN COUNTRIES WANT TO ACQUIRE THE TECHNOLOGY TO PREVENT CROP FAILURES AND AS A POTENTIAL "POOR MAN'S WMD"; MANY COUNTRIES WITH RESEARCH PROGRAMS ARE EAGER TO PROLIFERATE THEIR TECHNOLOGY FOR PROFIT (ESPECIALLY RUSSIA). CHINA HAS BEEN A HEAVY USER OF LOW-TECH MODIFICATION METHODS TO TRY TO PREVENT FLOODS AND END DROUGHTS, BUT IT HAS BEEN DIFFICULT TO GET GOOD EVIDENCE ON HOW SUCCESSFUL THEIR PROGRAMS REALLY ARE.**

[Redacted] Exp (b)(1), E.O. 1.4(c)

(U) 3. ~~(S)~~ [Redacted] **SOME OF THE GOALS OF WEATHER MODIFICATION PROGRAMS ARE TO PREVENT, WEAKEN, OR REDIRECT HURRICANES, TORNADOES, AND SEVERE THUNDERSTORMS BY SEEDING CLOUDS, COATING THE OCEAN SURFACE NEAR A HURRICANE WITH AN OIL, OR USING MICROWAVES TO HEAT A REGION OF THE ATMOSPHERE. CLOUD SEEDING IS ALSO USED TO TRY TO TRIGGER RAIN OR SNOW OVER A PARTICULAR REGION OR TO PREVENT LARGE HAILSTONES FROM FORMING. CLOUD SEEDING OR ATMOSPHERIC HEATERS HAVE BEEN EMPLOYED TO DISSIPATE RUNWAY FOG. LASERS OR GUIDED-WIRE ROCKETS ARE USED TO REDIRECT LIGHTNING OR TRIGGER A LIGHTNING STRIKE IN A SPECIFIC PLACE. CLOUD SEEDING IS THE LEAST EXPENSIVE LOW-TECH WEATHER MODIFICATION TOOL AND THE MOST COMMONLY USED. PRIVATE SECTOR COMPANIES INVOLVED IN WEATHER MODIFICATION HAVE BEEN MOST ACTIVE IN THIS TECHNOLOGICAL AREA. LASER LIGHTNING RESEARCH IS MORE DIFFICULT, EXPENSIVE, AND DEPENDENT ON GOVERNMENT SUPPORT. THERE HAVE BEEN SIGNIFICANT EFFORTS RECENTLY IN LIGHTNING RESEARCH TO PROTECT FACILITIES, POWER GRIDS, AND SPACE LAUNCHES. INTERNATIONAL CONFERENCES ON WEATHER MODIFICATION RESEARCH ARE HELD ON A REGULAR BASIS.**

4. ~~(S)~~ [Redacted] Exp (b)(1), E.O. 1.4(c)

5. ~~(S)~~ [Redacted] Exp (b)(1), E.O. 1.4(c)

6. (U) OPPORTUNITIES FOR ACQUIRING DOCUMENTATION (MANUALS, ETC.) AT

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NO COST SHOULD BE PURSUED AND MATERIAL FORWARDED AS ENCLOSURES TO IIR'S. NO FUNDS SHOULD BE OBLIGATED FOR ACQUISITION OF DOCUMENTATION/MATERIALS WITHOUT PRIOR COORDINATION WITH NASIC/DEX. REQMT: (U)

~~(S)~~

Exp (b)(1),E.O. 1.4(c)

A. ~~(S)~~

Exp (b)(1),E.O. 1.4(c)

DISCLOSURE OFFICE, ~~Exp (b)(6)~~ 787-2712.

B. (U) SUPERSEDES: AFTD214004207.

C. (U) IIR DISTRIBUTION: REQUEST IIRS AND COPIES OF ENCLOSURES PRODUCED IN RESPONSE TO THIS RQMT BE FORWARDED DIRECTLY TO THE FOLLOWING MAILING ADDRESS:

NATIONAL AIR AND SPACE INTELLIGENCE CENTER

4180 WATSON WAY

WPAFB, OH 45433-5648

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D. ~~(S)~~

Exp (b)(1),E.O. 1.4(c)

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Exp (b)(1), E.O. 1.4(c)

E. (U) POC: NASIC SUBSTANTIVE ANALYST IS [Exp (b)(6)]

[Exp (b)(6)]

NASIC COLLECTION MANAGER FOR THIS REQUIREMENT IS [Exp (b)(6)]

[Exp (b)(6)]

JWICS EMAIL: [Exp (b)(6)] SIPRNET EMAIL:

[Exp (b)(6)]

(b)(3):10  
USC 424

COORDINATED WITH DIA [ ] HOWEVER, NO INPUTS WERE RECEIVED.

PRODTASK: (U) C572-03-0001.

ORIGNO: (U) A-FTD-2140-0035-09.

[Exp (b)(6)]

(b)(3):10  
USC 424

SIGCOLL: (U) AF, ARMY, CIA, DIA [ ]

COMMENTS: (U) ALL AVAILABLE GOVERNMENT AND OPEN SOURCE DATABASES HAVE BEEN SEARCHED WITH NEGATIVE OR INSUFFICIENT RESULTS. ABOVE NEEDS UNDER REQUIREMENT SECTION REPRESENT INTELLIGENCE GAPS STILL REQUIRING COLLECTION SUPPORT. ANALYSTS REVIEW ALL SOURCE REPORTING AND OPEN SOURCE DATA BASES ROUTINELY AND CONDUCT DATA BASE RESEARCH AT REGULAR INTERVALS. NASIC ANALYSTS CAN PROVIDE BACKGROUND MATERIAL ON EXISTING SYSTEMS. OPPORTUNITIES FOR ACQUIRING DOCUMENTATION (MANUALS, ETC.) AT NO COST SHOULD BE PURSUED AND MATERIAL FORWARDED AS ENCLOSURES TO IIRS.

[Exp (b)(1), E.O. 1.4(c)]

ADMIN

DBCL ON: 25X1, DATE OF SOURCE, OCTOBER 15, 2004

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