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**NATIONAL RECONNAISSANCE OFFICE**

14675 Lee Road  
Chantilly, VA 20151-1715

10 August 2012

Mr. John Greenewald  
[REDACTED]

Dear Mr. Greenewald:

This is in response to your e-mail dated 22 June 2009, received in the Information Management Services Center of the National Reconnaissance Office (NRO) on 23 June 2009. Pursuant to the Freedom of Information Act (FOIA), you are requesting "all Memorandums of Understanding (MOUs) and Comity Agreements at the NRO since the date of...[NRO Case #F03-0033]... in 2003."

Your request is being processed in accordance with the FOIA, 5 U.S.C. § 552, as amended, and the NRO Operational File Exemption, 50 U.S.C. § 432a. A thorough search of our records and databases located sixty-two records totaling 269 pages responsive to your request. At this time, as an interim release, two documents consisting of eight pages are being released to you in full. Nine documents consisting of thirty-five pages are being released to you in part. Additionally, six documents, consisting of 26 pages, are being denied in full.

Information withheld from release is denied pursuant to FOIA exemptions:

(b) (1) as properly classified information under Executive Order 13526, Section 1.4(c), and exemption (b) (3) which applies to information specifically exempt by statute, specifically 50 U.S.C. § 403-1, which protects intelligence sources and methods from unauthorized disclosure;

(b) (3) which allows the withholding of information prohibited from disclosure by statute, 10 U.S.C. § 424 which states: "Except as required by the President or as provided in subsection (c), no provision of law shall be construed to require the disclosure of (1) The organization or any function . . . (2) . . . number of persons employed by or assigned or detailed to any such organization or the name, official title, occupational series, grade, or salary of any

such person . . . (b) Covered Organizations . . . the National Reconnaissance Office”;

(b) (6) which applies to records which, if released, would constitute a clearly unwarranted invasion of the personal privacy of individuals; and

(b) (7) (f) which applies to records or information compiled for law enforcement purposes which, if released, could reasonably be expected to endanger life or physical safety.

Thirty-two documents (139 pages) have been reviewed and treated for NRO equities, and referred to other agencies for their further reviews, treatments and direct responses to you. The remaining thirteen documents are being coordinated with other agencies for reviews for their equities, and return to the NRO for our final release determination. We will provide additional release determinations regarding these documents as soon as possible.

As we were unable to provide a response to you within the 20 days stipulated by the FOIA, you have the right to consider this as a denial and may appeal to the NRO Appeal Review Panel. It would seem more reasonable, however, to have us continue processing your request and complete our response as soon as additional remaining documents can be processed. You may appeal any denial of records at that time. Unless we hear from you otherwise, we will assume that you agree, and will proceed on this basis.

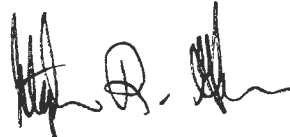
The FOIA authorizes federal agencies to assess fees for record services. Based upon the information provided, you have been placed in the “educational/scientific/media” category of requesters, which means you are responsible for duplication fees (.15 per page) exceeding 100 pages. Additional information about fees can be found on our website at [www.nro.gov](http://www.nro.gov). Assessable fees for processing your request are \$24.35 for duplication of 169 pages beyond the 100 pages provided at no cost, computed at a rate of \$0.15 per page. As this amount is less than our minimum billing threshold of \$25.00, fees incurred in the NRO’s processing of your request are being waived.

You have the right to appeal this determination by addressing your appeal to the NRO Appeal Authority, 14675 Lee Road, Chantilly, VA 20151-1715 within 60 days of the date of our

final release to you. Should you decide to do this, please explain the basis of your appeal.

If you have any questions, please call the Requester Service Center at (703) 227-9326 and reference case number F09-0095.

Sincerely,



Stephen R. Glenn  
Acting Chief, Information  
Access and Release Team

Enclosures:

- 1) Case Document #08 - 2004-03575
- 2) Case Document #18 - 2006-04133
- 3) Case Document #23 - 2006-04070
- 4) Case Document #24 - NRO/VAFB Fire Dept
- 5) Case Document #30 - NRO/USAF/DOE - Cyclotron
- 6) Case Document #32 - 2006-04071
- 7) Case Document #48 - 2007-04268
- 8) Case Document #58 - NRO/NFCU
- 9) Case Document #60 - WEEP
- 10) Case Document #64 - 2006-04075
- 11) Case Document #04 - 2005-03918

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MOU-2003-810-234

**Memorandum of Understanding  
between  
The California Institute of Technology  
Jet Propulsion Laboratory  
and  
The National Reconnaissance Office  
Advanced Systems and Technology Directorate**

**SECTION I  
PARTIES AND PURPOSE**

- 1.1 (U) This Memorandum of Understanding (MOU) is entered into by the National Reconnaissance Office, Advanced Systems and Technology Directorate (NRO/AS&T) and the California Institute of Technology (Caltech), a nonprofit educational institution incorporated in California, through its Jet Propulsion Laboratory (JPL), an operating division of Caltech and a Federally Funded Research and Development Center (FFRDC) located at 4800 Oak Grove Drive, Pasadena, California 91109.
- 1.2 (U) This MOU captures the intent of NRO/AS&T and JPL organizations to collaborate on space technology development areas of mutual interest. It also establishes a framework within which R&D collaboration and/or cooperative research between the two parties will be conducted. This agreement supercedes an earlier agreement between the parties dated 25 January 1998.

**SECTION II  
GENERAL UNDERSTANDINGS**

- 2.1 (U) Any technology development and/or demonstration within the scope of the NRO/AS&T's mission area and JPL's prime contract is a potential candidate for collaboration or cooperative research.
- 2.2 (U) For the purposes of this MOU, R&D collaboration is defined by investment-sharing, joint program management, and technology assessment of mutual interest. Cooperative research is defined as technology development linked to areas of unique competence for the individual organization, but of mutual interest to both organizations. In general, R&D interactions may involve collaborations, cooperative research activities, technology assessments and/or demonstrations.
- 2.3 (U) Each organization shall continue to do their own technology planning, budgeting, and project execution. The MOU provides an environment whereby either party may propose joint ventures for R&D collaboration.

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- 2.4 (U) Activities involving collaboration and cooperative research may be performed by appropriately authorized government and contractor personnel from both organizations. However, neither party will engage in collaborations or cooperative research unless appropriate implementing agreements, statements of work, and/or other suitable contractual arrangements are in place to define each organization's contributions, investments, intellectual property protections, schedules, management responsibilities, security requirements and other factors for collaborative and cooperative endeavors that are not addressed in this MOU. Any technology transfer opportunities will be consistent with national security policy and will be of benefit to the national interest.

### SECTION III IMPLEMENTATION

- 3.1 (U) Performance under this MOU shall be on an as-available, best efforts basis, without warranties and subject to the requirements of the prime contract between Caltech and NASA, and at no charge to the other party. Formulation of a collaborative or cooperative technology development agreement between the NRO/AS&T and NASA/JPL will include the following four steps:
1. Identifying technology programs of potential interest in each organization.
  2. Assessing whether such technology programs are of mutual interest.
  3. Organizing and planning a collaborative or cooperative program.
  4. Program execution including the requisite research and development, demonstration and transfer to industry.
- 3.2 (U) Both parties recognize that JPL staff performs their own R&D, (pursuant to Caltech's prime contract with NASA) while the AS&T staff contracts with others for R&D. Accordingly, there are two possible conduits for R&D interactions: 1) An activity where each organization contributes to a joint effort using their own resources; or 2) An activity where one organization puts the other on contract. In the latter case, a separate contract vehicle will be required.
- 3.3 (U) In order to facilitate the above steps and assure that maximum benefit to each organization is derived from these collaboration, annual program reviews between AS&T and JPL will be conducted at a place and time of mutual benefit. The purpose of these reviews will be to assess the extent and quality of the collaboration between the two organizations. The reviews will not include mission partner participation, unless specifically agreed upon by both parties in advance.

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#### **SECTION IV ORGANIZATIONAL RESPONSIBILITIES**

- 4.1 (U) All collaborative ventures shall be approved by the Director of AS&T and the Director of JPL prior to commencing work.
- 4.2 (U) AS&T will and JPL will identify and fund a "proactive" person in their respective organizations that will be responsible for coordinating and facilitating the identification of specific ventures for either collaboration or cooperative R&D to help support Steps 2-3 of Paragraph 3.1.
  - 4.2.1 (U) These two individuals are expected to converse on at least a monthly basis and meet at least quarterly in the execution of their assignment under this MOU.
- 4.3 (U) Both organizations will identify a Project Officer for each collaboration to support Steps 3-4 of Paragraph 3.1. These Project Officers will:
  - 4.3.1 (U) Be responsible for effective implementation, management and direction of the assigned collaboration.
  - 4.3.2 (U) Establish a schedule with milestones, resource requirements and deliverables for each collaboration.
  - 4.3.3 (U) Report the status of their assigned collaboration at annual program reviews.

#### **SECTION V FINANCIAL ARRANGEMENTS / COSTS AND RESOURCES**

- 5.1 (U) This MOU creates no financial responsibilities in and of itself regarding any activities. Each party shall bear all costs and expenses incurred by it in performing or in connection with this MOU. Each party shall provide its own equipment and facilities as necessary to implement the efforts described herein. Resources, including property, cannot be loaned or exchanged under this agreement.
  - 5.1.1 (U) Unless one organization is under legal contract to the other, each organization shall be responsible for funding their own participation in any joint endeavor including, personnel, administrative costs and travel expenses.
- 5.2 (U) The financial contributions of both organizations will be subject to the availability of appropriated funds for such purposes. Either party will promptly notify the other if available funds are not adequate to perform

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under the MOU, and will immediately consult the other on the course of action to be taken.

- 5.3 (U) Costs associated with any unique national requirement will be borne entirely by the responsible organization.
- 5.4 (U) The activities of JPL under this agreement are to be performed under Caltech's prime contract with NASA, NAS7-03001.
- 5.5 (U) This MOU does not constitute a binding obligation on any party. Nothing in this MOU shall be construed as consent by any party to enter into a contract, subcontract or other business relationship with any other party.

## SECTION VI SECURITY PROVISIONS

- 6.1 (U) The relationship between NRO/AS&T and JPL is open and acknowledged.
- 6.2 (U) All classified information, equipment and material provided or generated under this MOU will be stored, handled, transmitted and safeguarded in accordance with U.S. Government national security laws, regulations and policies. Such classified information, equipment and material will also bear the appropriate level of classification.
- 6.3 (U) Both organizations will ensure that access to classified information and/or equipment and material is limited to those persons who possess requisite security clearances and have a specific need for access.
- 6.4 (U) Each organization will maintain the security classification assigned to classified information and/or equipment by the originating organization.
- 6.5 (U) Pursuant to item 2.4 of Section II, GENERAL UNDERSTANDINGS, and Section III, IMPLEMENTATION, if work under this MOU results in the initiation of a separate contractual agreement, it is understood that contractors, prospective contractors, or subcontractors working under this MOU and their facilities have the capability to protect classified information and/or equipment and material adequately.

## SECTION VII RIGHTS IN INVENTIONS AND INTELLECTUAL PROPERTY

- 7.1 (U) The parties do not intend that the activities performed under this MOU will result in inventions or the creation of new intellectual property, but if any result, the following will apply:

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- 7.1.1 (U) NRO/AS&T shall retain exclusive title and all rights to inventions, copyrights, and other intellectual property arising from the conceptions or efforts of its employees or consultants in performing this MOU or any implementing agreement hereunder.
- 7.1.2 (U) Subject to the U.S. Government's rights and interests, Caltech shall retain exclusive title and all rights to inventions, copyright and other intellectual property arising from conceptions or efforts of JPL employees or consultants in performing this MOU. The U.S. Government retains a right to use such inventions, copyrighted materials, or other intellectual property, royalty-free, for authorized government purposes.
- 7.1.3 (U) Subject to U.S. Government rights and interests, NRO/AS&T, and Caltech shall hold joint title and rights in inventions, copyrights, and other intellectual property arising from the joint conceptions or efforts of both parties' employees or consultants in performing under this MOU.

#### **SECTION VIII FEDERAL EXPORT LAWS AND REGULATIONS**

- 8.1 (U) In the performance of this MOU, JPL and NRO/AS&T may exchange or develop data, information, software or other technology which may be subject to the export control laws and regulations of the United States, including the International Traffic in Arms Regulations (ITAR), 22 C.F.R. 120-130 and the Export Administration Act Regulations (EAR), 15 C.F.R. 730-774). The parties agree to fully comply with all such laws and regulations in the performance of this MOU, and each party will be responsible for obtaining export licenses or other export authority as may be required before exporting controlled data, information, software or other technology to foreign countries or providing access to foreign persons (as defined in 22 C.F.R. 120.16 ).
- 8.1.1 (U) In the event that JPL is requested by NRO/AS&T to provide remote access accounts for its employees authorizing access to any JPL electronic library or server, JPL will require NRO/AS&T's Export Administrator to certify that its employees requesting access are U.S. persons (as defined in 22 C.F.R. 120.15).

#### **SECTION IX PUBLICITY / PUBLICATION**

- 9.1 (U) NRO/AS&T agrees that it will not use the name or logos of the "California Institute of Technology," "Caltech," "Jet Propulsion Laboratory,"

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"JPL," "National Aeronautics and Space Administration," or "NASA" in any advertising or publicity material, or make any form of representation or statement in relation to work performed under this MOU that would constitute an expressed or implied endorsement by Caltech, JPL or NASA of any commercial product, without written approval. Requests for written approval to use Caltech or JPL's name(s) or logo(s) under this MOU should be directed to the JPL Intellectual Property Office at JPL. Requests for written approval to use NASA's name or logo should be sent to NASA directly.

- 9.2 (U) JPL and NRO/AS&T agree to confer and consult prior to the publication of unclassified Data to assure that no Proprietary Information is released and that patent rights are not jeopardized. Prior to submitting a manuscript for review that contains the results of research under this MOU, or prior to publication if no such review is made, each party shall be offered thirty (30) days to review such proposed publication and to file a patent application in a timely manner, if it is so entitled under this MOU.

**SECTION X  
PERIOD OF PERFORMANCE / TERMINATION**

- 10.1 (U) This MOU shall take effect upon the latest date signed as indicated on the signature page through the period of performance end date of NASA's contract with Caltech, Contract NAS7-03001, unless sooner terminated in writing by any party.
- 10.2 (U) In the event that any party wishes to terminate this MOU, they will endeavor to provide 90 days' prior written notice to the other party.

**SECTION XI  
POINTS OF CONTACT**

- 11.1 (U) Correspondence concerning this MOU shall be directed to the following representatives:

**NRO/AS&T:**

b3 b6  
 [Redacted]  
 b3  
 Advanced Systems and Technology  
 National Reconnaissance Office  
 14675 Lee Road  
 Chantilly, VA 20251  
 Duty Phone: [Redacted]

**JPL:**

b6  
 [Redacted]  
 Defense and Intelligence  
 Space Programs  
 Jet Propulsion Laboratory  
 M/S 180-401  
 4800 Oak Grove Drive  
 Pasadena, CA 91109  
 Duty Phone: [Redacted]

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**SECTION XII  
AMENDMENTS / MODIFICATIONS**

12.1 (U) This MOU may be amended at any time upon written consent by both parties.

**Signed:**

  
Date 2/2/04

Dr. Pete Rustan  
Director  
Advanced Systems and Technology  
Directorate  
National Reconnaissance Office

b6  
  
Date 1/29/04

Director  
Jet Propulsion Laboratory  
California Institute of  
Technology

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NRO APPROVED FOR RELEASE 8 AUGUST 2012

MEMORANDUM OF UNDERSTANDING  
BETWEEN  
THE NATIONAL RECONNAISSANCE OFFICE  
COMMUNICATIONS SYSTEMS ACQUISITION AND OPERATIONS DIRECTORATE  
AND  
UNITED STATES ARMY EUROPE  
ON  
SUPPORT FOR COMMUNICATIONS EQUIPMENT

**A. (U) PURPOSE.** This Memorandum of Understanding (MOU) provides the operational and administrative parameters agreed to by the National Reconnaissance Office (NRO) Communications Systems Acquisition and Operations Directorate (COMM) and United States Army Europe (USAREUR) at Heidelberg for support of NRO/COMM equipment.

**B. (U) BACKGROUND.** The NRO/COMM provides standard services to the Deputy Director of Mission Support (DDMS) for NRO Technical Support Representatives (TSRs). The TSRs are co-located with the customer elements, generally where COMM does not have immediate access to the equipment. In an effort to provide timely service to the TSRs, an agreement is required to facilitate a relationship with the customer site communications personnel to provide basic support services.

**C. (U) RESPONSIBILITIES.**

(U) The NRO/COMM will:

1. (~~U//FOUO~~) Provide an equipment list, including bar code numbers to Campbell Barrack G2 for tracking and perform inventory of equipment yearly.
2. (U) Provide fly-out support if maintenance issues cannot be resolved or if USAREUR mission requirements will not allow support.
3. (U) Provide cryptographic equipment for all circuits including replacements as needed.
4. (U) Provide for the initial issue and follow-on cryptographic key support for all circuits.
5. (U) Be responsible for purchasing replacement equipment and disposition of all faulty equipment.
6. (U) Provide and install any equipment upgrades affecting circuits.

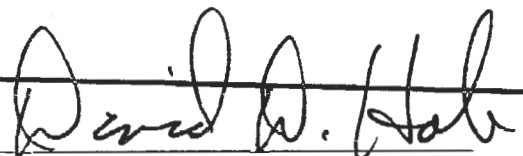
SUBJECT: (U//~~FOUO~~) MOU BETWEEN THE NRO COMM AND USASEUR ON SUPPORT FOR COMM EQUIPMENT

7. (U) Accomplish any equipment modifications, changes, and perform annual preventive maintenance.

(U) The USAREUR will:

1. (U) Provide "best effort" maintenance on all NRO circuits during normal business hours.
2. (U) Hold keymat for NRO circuit on their Communications Security (COMSEC) account.
3. (U) Perform required cryptographic key loads and rekeys as required.
4. (U//~~FOUO~~) Return any faulty COMSEC equipment to NRO COMSEC depot.
5. (U) Coordinate with NRO/COMM for the return of any faulty equipment.
6. (U) Provide rack space for NRO/COMM equipment.
7. (U) Track NRO/COMM equipment (including spares).

D. (U//~~FOUO~~) **IMPLEMENTATION.** This MOU will take effect upon signature of the authorized representatives from the NRO and USAREUR. As agreed to by all parties, or their designees, the MOU shall be reviewed every two years to determine its continued applicability. Either party may terminate the MOU by written notification to the other party. The MOU will terminate after such written notification.



DAVID D. HALE, COL, USA  
Chief, Plans and Architecture  
Division  
USAREUR

26 OCT 06  
Date

b3 b6  


Commander, Operations Group  
COMM

20 NOV 06  
Date

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2006-04070

**MEMORANDUM OF UNDERSTANDING  
BETWEEN THE  
NATIONAL RECONNAISSANCE OFFICE,  
IMAGERY SYSTEMS ACQUISITION AND OPERATIONS DIRECTORATE,  
AND THE  
DEPARTMENT OF THE NAVY,  
NAVY SPECIAL PROJECTS DIVISION CNO N24  
FOR SUPPORT TO  
MAGNUM ADVANCED CONCEPT AND TECHNOLOGY DEMONSTRATION**

A. (U) **PURPOSE.** This Memorandum of Understanding (MOU) defines the expectations and responsibilities of the National Reconnaissance Office's Imagery Systems Acquisition and Operations Directorate (NRO/IMINT) and the Department of the Navy's Navy Special Projects Division (CNO N24) regarding the implementation of airborne test and evaluation phases of IMINT's MAGNUM Advanced Concept and Technology Demonstration (ACTD), to complete MAGNUM's Military Utility Assessment (MUA) and Extended Utility Evaluation (EUE). This MOU also documents roles in preparing and presenting information to the MAGNUM ACTD Senior Review Group (SRG), which approves funding for MAGNUM. The SRG is a Department of Defense forum led by representatives from Deputy Undersecretary of Defense for Advanced Systems and Concepts (DUSD(AS&C)), Headquarters US Air Force, USSTRATCOM, and USCENTCOM.

B. (U) **REFERENCES.**

1. *MAGNUM Advanced Concept Technology Demonstration (ACTD) for Polarization Information (PI) A Transformational Collection Approach Security Classification Guide*, NRO/IMINT, dated 11 May 2005, (S)
2. *Navy Special Projects Program Manual, Chapter 3, Program Security*, Office of the Chief of Naval Operations, dated 23 December 2005, (S//NF)
3. *MAGNUM Advanced Concept Technology Demonstration (ACTD) for Polarization Information (PI) A Transformational Collection Approach Implementation Directive*, DUSD(AS&C), (S)

C. (U//~~FOUO~~) **BACKGROUND.**

**MAGNUM:** MAGNUM, a four-year NRO ACTD managed by IMINT's Research and Technology Systems Office (RTS), must secure a suitable aircraft for MUA demonstration flights. MAGNUM's schedule includes MUA and EUE flights beginning in calendar year

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**SUBJECT: MOU BETWEEN IMINT AND N24 FOR SUPPORT TO MAGNUM ACTD**

2007. IMINT/RTS is conducting an interlaced integration effort with another aircraft prior to this activity, and will perform integration and test activities (I&T) with N24 in January 2007. Upon I&T completion, IMINT/RTS will remove MAGNUM equipment and then return in March 2007 to reinstall the MAGNUM hardware, at which time the MUA demonstration flights will take place. Upon successful completion of the MAGNUM MUA, the MAGNUM program will transition from an ACTD to a U.S. Air Force (USAF) program of record. DUSD(AS&C) requires ACTDs to secure a platform to support an EUE during the transition time period, which may last several years. N24 is considering using the MAGNUM hardware for an EUE, depending on the results of the MUA.

**N24:** Navy Special Projects Division (CNO N24) maintains a small fleet of specially configured P-3SP aircraft to support the rapid development, prototyping, testing, and evaluation of various airborne technology initiatives. Navy Special Projects Division retains an inherent flexibility in both the engineering and flight clearance processes, making the platform ideally suited to support MUA and EUE for this ACTD.

**D. ~~(U//FOUO)~~ RESPONSIBILITIES.**

The IMINT/RTS will

1. Provide the MAGNUM hardware to N24 for integration and test (I&T) using RTS's contractors, and for subsequent use by N24 in the MUA. If the MAGNUM MTS shows utility to the user community and if the Air Force approves, RTS will then provide N24 with the hardware and software to support the EUE.
2. Perform integration of MAGNUM hardware into the N24-provided platform and conduct testing.
3. Receive and process raw digital data from MAGNUM test flights.
4. Provide copies of processed data to N24. This includes still and motion imagery products created for use in the MUA. RTS does not expect to share raw data collected during flight testing since it will be of no use to N24.
5. Provide monthly status updates on the MAGNUM schedule to N24 via IPT meetings.

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SUBJECT: MOU BETWEEN IMINT AND N24 FOR SUPPORT TO MAGNUM ACTD

6. Provide the integration cost and schedule information to the MAGNUM SRG to obtain approval to use the N24 aircraft platform for the MAGNUM ACTD MUA and EUE. If the SRG does not provide the necessary funding, and if there is otherwise insufficient funding available to complete the activities covered by this MOU, this MOU will be terminated.

7. Use SRG funding for costs associated with NRO contractor support to N24 personnel for integration and testing tasks of the MAGNUM hardware into the N24 platform.

N24 will

1. Provide an aircraft platform for MAGNUM I&T activities. The exact schedule will be negotiated between both parties based on aircraft availability and SRG approval. Following successful platform I&T, N24 will provide sufficient flight testing opportunities to support a MUA and EUE. Nominally, 40 hours and/or a period of 1 month of sporadic operation are expected to provide sufficient data for the purposes of this ACTD and agreement.

2. Provide the shared use of an aircraft platform for MUA and EUE; the exact schedule will be negotiated between both parties pending aircraft availability and SRG approval. MUA and EUE flight testing times and locations will be determined by N24. N24 will provide this information to RTS at least 30 days prior to availability for I&T activities, which are scheduled for 1-3 months, to facilitate technical/engineering preparations and travel planning.

3. Provide IMINT/RTS with monthly updates to the N24 aircraft availability schedule via IPT meetings.

4. Assist IMINT/RTS in collection of MUA and EUE integration cost and schedule information for the Senior Review Group (SRG) to obtain approval for using the N24 platform for the MAGNUM ACTD MUA and EUE. N24 will provide the ceiling rough order of magnitude cost (CROM) and aircraft availability information to RTS.

5. Provide the collected digital and analog on-board recorded data to RTS after every MUA and EUE flight.

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SUBJECT: MOU BETWEEN IMINT AND N24 FOR SUPPORT TO MAGNUM ACTD

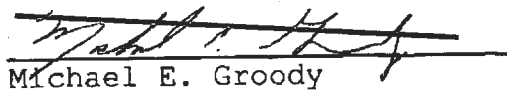
6. Fund N24 costs affiliated with generation of cost and schedule CROMs for the integration and testing of the MAGNUM hardware into the N24 platform.

7. Fund costs associated with operating and maintaining the platform throughout I&T and data collection periods.

**E. (U//~~FOUO~~) IMPLEMENTATION.**



Implementation will take place in three phases. Phase one will be the integration cost and schedule planning and will run from signature of this agreement through SRG meeting (April 2006). The second phase will run from the SRG to the completion of the MUA planned for March 2007. The third phase will run from the completion of the MUA through the completion of the EUE, which is planned to end in 2009.

This MOU shall take effect upon signature of the authorized representatives from each agency. As agreed to by all parties, or their designees, the MOU will remain in effect until the MUA and EUE is complete. This agreement will be reviewed by IMINT/RTS and N24 upon completion of phase one and two and a determination will be made as to whether to continue this agreement into the next phase. After completion of the MUA, the MOU shall be reviewed every two years to determine its continued applicability. Either party may terminate the MOU by written notification to the other party. The MOU will terminate after such written notification.



Michael E. Groody  
Department of the Navy  
  
Director, Navy Special  
Projects Division, CNO N24

14 April 2006  
Date

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The National Reconnaissance  
Office, Imagery Directorate  
Director, 

4 APR 2006  
Date

MEMORANDUM OF UNDERSTANDING  
BETWEEN  
THE NATIONAL RECONNAISSANCE OFFICE/OFFICE OF SPACE LAUNCH/  
NATIONAL RECONNAISSANCE OFFICE VANDENBERG  
AND  
THE VANDENBERG AIR FORCE BASE FIRE DEPARTMENT  
ON  
RADIO USAGE DURING  
EMERGENCY RESPONSE ON VANDENBERG

A. PURPOSE

This memorandum documents the agreement between the National Reconnaissance Office (NRO) Operating Location at Vandenberg Air Force Base (NROV) and the Vandenberg Air Force Base (VAFB) Fire Department concerning radio usage at Spaceport Systems International's (SSI's) Integrated Processing Facility (IPF), Boeing's Space Launch Complex - 6 (SLC-6), Lockheed Martin's Space Launch Complex - 3 (SLC-3), Titan Space Launch Complex - 4 (SLC-4), NROV Payload Processing Facility (PPF), and Boeing's Space Launch Complex - 2 (SLC-2) during fire department emergency response to those respective locations when NRO spacecraft are present.

B. BACKGROUND

NRO spacecraft are delivered to VAFB with ordnance installed. These ordnance systems are multiple in number and have varying levels of sensitivity to Radio Frequency (RF) energy emitted by fixed, mobile, and hand-held transmitters. Further, these spacecraft systems are exposed to the RF environment in varying degrees during the spacecraft's pre-launch processing time at the IPF, SLC-6, SLC-3, SLC-4, PPF, and SLC-2. It is imperative, for personnel safety and for the protection of the high-valued space hardware, that RF emissions are carefully controlled within the vicinity of the spacecraft during the pre-launch operational environment. Since it is most likely that the VAFB Fire Department utilizes RF emitters operating at power levels that exceed the levels that have been determined to be safe in the vicinity of NRO spacecraft, NROV and the VAFB Fire Department will limit RF emissions per the agreement established in this memorandum.

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SUBJECT: MOU Between the NRO/Office of Space Launch/NROV and the VAFB Fire Department on Radio Usage During Emergency Response on South Vandenberg

C. DEFINITIONS

1. RF-emitting Devices: hand-held transmitters (radios), personal electronic devices, cellular telephones, vehicular mobile transmitters, amateur and citizen band radios, and all other portable transmitting devices.

2. Emergency Response: response of the VAFB Fire Department to the IPF, SLC-6, SLC-3, SCL-4, PPF, and/or SLC-2 for either a confirmed or an unconfirmed emergency.

3. Confirmed Emergency: an emergency situation in which a hazard has been verified to exist (e.g., observed flames or smoke, observed hazardous materials release, observed intruder).

4. Unconfirmed Emergency: an emergency situation in which a VAFB Fire Department response is required, but one in which a hazard has not yet been verified to exist (e.g., a response to an alarm).

D. RESPONSIBILITIES

1. Integrated Processing Facility (IPF)

a. Fire Department personnel responding to a confirmed or an unconfirmed emergency will report to the IPF Operations Support Center (Level 89).

b. Fire Department personnel will set their 5-watt radios to Talk Around mode for RF-emitting before they are allowed passage into the IPF.

c. Fire Department personnel will not operate their 5-watt radios within the cell that is housing the spacecraft *unless a confirmed emergency exists within that cell.*

d. Fire Department personnel will turn OFF each vehicular mobile transmitter located in each of their emergency response vehicles in the IPF parking lot.

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SUBJECT: MOU Between the NRO/Office of Space Launch/NROV and the VAFB Fire Department on Radio Usage During Emergency Response on South Vandenberg

e. Fire Department personnel will use a hard-line phone if their 5-watt radio communication is lost or unable to transmit in the areas identified. (See Attachment 1)

f. Fire Department personnel will not operate their 5-watt radios within 10 feet of the spacecraft at anytime, even after confirmed emergency exists within that area.

2. Space Launch Complex - 6 (SLC-6)

a. Fire Department personnel responding to a confirmed or an unconfirmed emergency will report to the SLC-6 entry control point.

b. Fire Department personnel will set their 5-watt radios to Talk Around mode for RF-emitting before they are allowed passage onto SLC-6.

c. Fire Department personnel will turn OFF each vehicular mobile transmitter located in each of their emergency response vehicles at the SLC-6 entry control point. These transmitters will remain in the OFF configuration through the vehicle's entire stay within the SLC-6 perimeter fence unless a confirmed emergency exists and the vehicular transmitter is required.

d. Fire Department personnel will not operate RF-emitting devices on or above Mobile Service Tower Platform 8 (Level 14) unless a confirmed emergency exists within that area.

e. Fire Department personnel will not operate their 5-watt radios within 10 feet of the spacecraft at anytime, even after confirmed emergency exists within that area.

3. Space Launch Complex - 3 (SLC-3)

a. Fire Department personnel responding to a confirmed or an unconfirmed emergency will report to the SLC-3 entry control point.

b. Fire Department personnel will set their 5-watt radios to Talk Around mode for RF-emitting before they are allowed passage onto SLC-3.

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SUBJECT: MOU Between the NRO/Office of Space Launch/NROV and the VAFB Fire Department on Radio Usage During Emergency Response on South Vandenberg

c. Fire Department personnel will turn OFF each vehicular mobile transmitter located in each of their emergency response vehicles at the SLC-3 entry control point. These transmitters will remain in the OFF configuration through the vehicle's entire stay within the SLC-3 perimeter fence unless a confirmed emergency exists and the vehicular transmitter is required.

d. Fire Department personnel will not operate RF-emitting devices on or above Level 14 of the Mobile Service Tower unless a confirmed emergency exists within that area.

e. Fire Department personnel will not operate their 5-watt radios within 10 feet of the spacecraft at anytime, even after confirmed emergency exists within that area.

4. Space Launch Complex - 4 (SLC-4)

a. Fire Department personnel responding to a confirmed or an unconfirmed emergency will report to the SLC-4 entry control point.

b. Fire Department personnel will set their 5-watt radios to Talk Around mode for RF-emitting before they are allowed passage onto SLC-4.

c. Fire Department personnel will turn OFF each vehicular mobile transmitter located in each of their emergency response vehicles at the SLC-4 entry control point. These transmitters will remain in the OFF configuration through the vehicle's entire stay within the SLC-4 perimeter fence unless a confirmed emergency exists and the vehicular transmitter is required.

d. Fire Department personnel will not operate RF-emitting devices on or above Level 13 of the Mobile Service Tower unless a confirmed emergency exists within that area.

e. Fire Department personnel will not operate their 5-watt radios within 10 feet of the spacecraft at anytime, even after confirmed emergency exists within that area.

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SUBJECT: MOU Between the NRO/Office of Space Launch/NROV and the VAFB Fire Department on Radio Usage During Emergency Response on South Vandenberg

5. Payload Processing Facility (PPF)

a. Fire Department personnel responding to a confirmed or an unconfirmed emergency will report to the NRO Operations Support Center (OSC) (Bldg. 2500). The OSC/SOC will meet the Fire Department at the Bldg. 2500 entry control point and escort them to the facility.

b. Fire Department personnel will set their 5-watt radios to Talk Around mode for RF-emitting before they are allowed passage into the PPF.

c. Fire Department personnel will not operate their 5-watt radios within the cell that is housing the spacecraft *unless a confirmed emergency exists within that cell.*

d. Fire Department personnel will turn OFF each vehicular mobile transmitter located in each of their emergency response vehicles in the PPF parking lot.

e. Fire Department personnel will use a hard-line phone if their 5-watt radio communication is lost or unable to transmit in the areas identified. (See attachment 2)

f. Fire Department personnel will not operate their 5-watt radios within 10 feet of the spacecraft *at anytime, even after confirmed emergency exists within that area.*

6. Space Launch Complex - 2 (SLC-2)

a. Fire Department personnel responding to a confirmed or an unconfirmed emergency will report to the SLC-2 entry control point.

b. Fire Department personnel will set their 5-watt radios to Talk Around mode for RF-emitting before they are allowed passage onto SLC-2.

c. Fire Department personnel will turn OFF each vehicular mobile transmitter located in each of their emergency response vehicles at the SLC-2 entry control point. These

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SUBJECT: MOU Between the NRO/Office of Space Launch/NROV and the VAFB Fire Department on Radio Usage During Emergency Response on South Vandenberg

transmitters will remain in the OFF configuration through the vehicle's entire stay within the SLC-2 perimeter fence unless a confirmed emergency exists and the vehicular transmitter is required.

d. Fire Department personnel will not operate RF-emitting devices on or above Mobile Service Tower Level 3 unless a confirmed emergency exists within that area.

e. Fire Department personnel will not operate their 5-watt radios within 10 feet of the spacecraft at anytime, even after confirmed emergency exists within that area.

E. IMPLEMENTATION

This MOU shall take effect upon signature of the authorized representatives from NRO Vandenberg and the VAFB Fire Department. As agreed to by all parties, or their designees, the MOU shall be reviewed annually to determine its continued applicability. Either party may terminate the MOU by written notification to the other party. The MOU will terminate within 30 days after such written notification.

SIGNED 11/2/04

b3 b6 Maj, USAF  
Director of Operations  
NRO Vandenberg

SIGNED 10/22/04

b6  
Assistant Chief  
VAFB Fire Department

Attachments:

1. Schematic of IPF
2. Schematic of PPF

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MEMORANDUM OF UNDERSTANDING  
BETWEEN  
THE DEPARTMENT OF ENERGY  
AND  
THE UNITED STATES AIR FORCE  
AND  
THE NATIONAL RECONNAISSANCE OFFICE  
ON  
FUNDING FOR THE LAWRENCE BERKELEY NATIONAL LABORATORY  
88-INCH CYCLOTRON

A. PURPOSE

The purpose of this Memorandum of Understanding (MOU) between the Department of Energy (DoE), the United States Air Force (USAF), and the National Reconnaissance Office (NRO) is to agree upon continued funding for the operations and maintenance of the Lawrence Berkeley National Laboratory (LBNL) 88-Inch Cyclotron for Fiscal Year (FY) 2004 and FY 2005.

B. BACKGROUND

The DoE's Nuclear Physics program is scheduled to terminate the 88-Inch Cyclotron as a National User Facility in order to redirect funds to higher Nuclear Physics (NP) program priorities that include operation of all of its remaining low-energy facilities and support of research and development for new projects. The USAF and NRO have found the unique characteristics of the LBNL Cyclotron valuable in simulating the space environment including galactic cosmic rays and trapped protons via a "cocktail" mixture of heavy-ions, protons, and other medium-energy particles to test microcircuits for single event effects and single event upsets. The DoE's FY 2004 Congressional Budget request proposed using \$3 million in funding to begin decommissioning and decontamination planning in FY 2004. The USAF and NRO subsequently identified a need for the 88-Inch Cyclotron to continue operations and maintenance for both FY 2004 and FY 2005. While the Office of Nuclear Physics indicated that it might be possible to redirect the \$3 million identified currently for decontamination and decommissioning activities to operations, there would still be a \$2 million shortfall from the amount of \$5 million required to operate and maintain this facility on an annual basis. The USAF and NRO expressed a willingness to find a source of funding to cover this \$2 million shortfall.

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SUBJECT: Funding for the Lawrence Berkeley National Laboratory  
88-inch Cyclotron

C TECHNICAL SCOPE

The combined total of \$5 million in funds for operations and maintenance of the 88-Inch Cyclotron will provide up to 4700 hours of beam time per year. As a result of the transfer of funds, the National Security Space (NSS) community will be able to use the cyclotron for 2000 hours of testing without paying user fees, with the balance of available beam time for use by local researchers.

The LBNL 88-Inch Cyclotron is vital to NSS space test requirements and mission success. The LBNL Cyclotron offers unique capabilities that allow ready access to the facility and agility in testing. No other accelerator facility offers these combined capabilities that allows flexibility for program schedules and efficient and effective use of beam time. The DoE's continued interest in funding the LBNL Cyclotron within the limits of its budget priorities has recognized and supports the NSS program's reliance on this testing capability.

Continued operations of the 88-Inch Cyclotron will enable the Office of Nuclear Physics to conduct outstanding research on science opportunities identified by the Nuclear Science Advisory Committee. This will include a continued research program in nuclear structure and astrophysics, fundamental interactions and symmetries, and technology research and development by the local LBNL and University of California (Berkeley) scientists and students.

D RESPONSIBILITIES

1. The DoE will go through the process of notifying the DoE, Office of Management and Budget, and Congress of its intent in FY 2004 to redirect the \$3 million that is currently identified for decontamination and decommissioning to continued operations and maintenance of the LBNL Cyclotron. Assuming that all of the reviewers agree to this change, the change will be implemented contingent on the signature of this MOU and the provision of the necessary funds.

2. Contingent on the availability of funds, the USAF and the NRO will each submit a Military Interdepartmental Purchase

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SUBJECT: Funding for the Lawrence Berkeley National Laboratory  
88-inch Cyclotron

Request for \$1 million to DoE in FY 2004 and again in FY 2005  
for continued operations and maintenance of the LBNL Cyclotron

3. The Office of Nuclear Physics will remain responsible for the oversight and management of the 88-Inch Cyclotron. Future decommissioning and decontamination remains the responsibility of DoE.

4. Based on requested time from users, a representative of the LBNL Cyclotron will propose a tentative schedule at the beginning of each quarter, which will satisfy the requests of both the NSS and local NP communities. Representatives from the Office of Nuclear Physics, the NRO Deputy Director for System Engineering, and the Space and Missile Systems Center Chief Engineer's Office, will approve the overall schedule. The LBNL will be responsible for managing short-term scheduling to maintain the flexibility required to meet the changing needs of the NSS and local NP communities. Other users (Non-DoE, Non-NRO, Non-USAF) will be granted time only if it is available after the needs of the NSS and local NP communities are met, and will be charged full cost recovery in accordance with applicable DoE regulations.

5. Before the end of FY 2004, in preparation for the FY 2006 President's Budget to be submitted to Congress, the USAF and the NRO will re-evaluate the requirement for the use of the LBNL Cyclotron. The USAF and the NRO will then determine availability of funding to support operations and maintenance, and inform the DoE of their evaluation and determination. The operations budgets beyond FY 2005 for the 88-Inch Cyclotron will be established by agreement of the NRO, USAF, and DoE.

6. The initial point of contact within the NRO will be the Deputy Director for System Engineering. The Directorate of Space Acquisition will serve as the initial point of contact within the Air Force. The Associate Director, Office of Nuclear Physics, will be the initial point of contact within DoE.

#### E IMPLEMENTATION

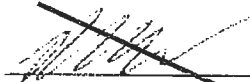
This MOU shall take effect upon signature of the authorized Representatives from the USAF, NRO, and DoE. It will remain in effect through FY 2005. At the close of FY 2004, both parties will agree to re-consider renewing this agreement or implementing

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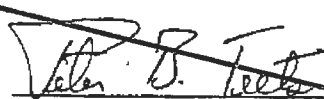
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SUBJECT: Funding for the Lawrence Berkeley National Laboratory  
88-inch Cyclotron

new options that serve the national security interests of both parties for future years. As agreed to by all parties, or their designees, the MOU shall be reviewed annually to determine its continued applicability.

  
\_\_\_\_\_  
Robert G. Card  
Under Secretary for Energy,  
Science and Environment

4/13/03  
Date

  
\_\_\_\_\_  
Peter B. Teets  
Under Secretary of the  
Air Force  
Director, National  
Reconnaissance Office

10/15/03  
Date

~~SECRET//TK//25X1~~

NRO 2006-04071

~~S//TK~~ MEMORANDUM OF UNDERSTANDING  
BETWEEN  
THE NATIONAL RECONNAISSANCE OFFICE,  
ADVANCED SYSTEMS AND TECHNOLOGY DIRECTORATE,  
SIGNALS INTELLIGENCE SYSTEMS ACQUISITION AND OPERATIONS  
DIRECTORATE  
AND

b1 [REDACTED]  
ON  
b1 [REDACTED]

A. ~~(S//TK)~~ PURPOSE. This Memorandum of Understanding (MOU) defines the technical and programmatic responsibilities for the National Reconnaissance Office (NRO), Advanced Systems and Technology Directorate (AS&T), Signals Intelligence (SIGINT) Systems Acquisition and Operations Directorate, b3

[REDACTED]  
and the b1 b3  
[REDACTED]

B. ~~(S//TK)~~ REFERENCES. b1 b3 briefing to AS&T dated 28 February 2006.

C. ~~(S//TK)~~ BACKGROUND. b1 b3 has requested that the b1 b3 b1 b3 be installed on the b1 b3 b1 b3 b3 acceptance of the b1 b1 b3 is based on the concept of "Do No Harm" to b1 b3 b1 b3 accepts responsibility for fabrication, test and delivery of the b1 to the b3 prime contractor, b1 b3 b3 accepts responsibility for integration, test, launch, and data delivery from the b1 on b1 b3 within the constraints of funding allocated by NRO/AS&T.

DECL ON: 25X1, 20560210 RRG dated July 2005  
DRV FROM: SCG, 24 May 2005

WARNING-THIS DOCUMENT SHALL NOT BE USED AS A SOURCE FOR DERIVATIVE CLASSIFICATION

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SUBJECT: MOU BETWEEN THE NRO AND THE ~~b1 b3~~ ON  
INTEGRATION OF THE ~~b1 b3~~

D. ~~(S//TK)~~ BASIC AGREEMENT. ~~b1 b3~~ provides the ~~b1 b3 b3~~ provides the System Integration. After launch, ~~b1 b3~~ Signals Intelligence (SIGINT) ~~b3~~ provides the ~~b1 b3~~ on a not to interfere basis in accordance with the ~~b1~~ Concept of Operations (CONOPS): ~~b3~~ ~~b3~~ and ~~b1 b3~~ control the ~~b1 b3~~ ~~b1 b3~~; ~~b1 b3~~ provides an approved ~~b1~~ uplink reconfiguration in accordance with the approved ~~b1~~ CONOPS; and ~~b1 b3~~ provides the ~~b1~~ performance data and analysis.

E. ~~(S//TK)~~ RESPONSIBILITIES.

1. ~~(S//TK)~~ ~~b1 b3~~ provides NRO ~~b3~~
  - a. ~~b1 b3~~ hardware and software for installation into ~~b1 b3~~ within Interface Control Document (ICD) defined parameters and schedule constraints.
2. ~~(S//TK)~~ NRO/SIGINT ~~b3~~ provides ~~b1 b3~~
  - a. ~~b1 b3~~ ICD.
  - b. ~~b1 b3~~ Sub-chassis adapter to ~~b1 b3~~ ~~b1 b3~~ chassis with ~~b1 b3~~ ~~b1 b3~~ Compatibility Seal included.
  - c. ~~b1 b3~~
  - d. ~~b1 b3~~ integration schedule.
  - e. ~~b1 b3~~ integration and testing.
  - f. Data output per ICD.
3. ~~(S//TK)~~ Except for information subject to restrictions detailed in applicable classification and security guidance, this MOU in no way restricts any of the parties from participating in any activity with other public or private agencies, organizations or individuals.
4. ~~(S//TK)~~ This MOU is neither a fiscal nor funds obligation document. Nothing in this document authorizes

~~SECRET//TK//25X1~~

~~SECRET//TK//25X1~~

SUBJECT: MOU BETWEEN THE NRO AND THE ~~b1 b3~~ ON  
 INTEGRATION OF THE ~~b1 b3~~

or is intended to obligate the parties to exchange or reimburse funds, services or supplies.

5. ~~(S//TK)~~ This MOU is strictly for internal and interagency management purposes. It is not legally enforceable and shall not be construed to create any legal obligation on the part of either party. This document shall not be construed to provide a private right or cause of action for or by any person or entity.

F. ~~(S//TK)~~ CONSTRAINTS.

1. ~~(S//TK)~~ Should a higher priority mission evolve prior to ~~b1 b3~~ that requires the removal of ~~b1 b3~~ ~~b1 b3~~ after first consulting with ~~b1 b3~~ may remove the ~~b1~~ at its sole discretion.

2. ~~(S//TK)~~ Integration shall be accomplished under ~~b3~~ contract to ~~b1 b3~~ and liaison between all others and ~~b1~~ on ~~b1 b3~~ matters shall be only as authorized under this agreement.

3. ~~(S//TK)~~ "Do No Harm" will require all ~~b1~~ operations to be approved by ~~b3~~ representatives such that they will have no unacceptable negative affect on the ~~b1 b3~~ mission prior to implementation.

G. ~~(S//TK)~~ IMPLEMENTATION.

1. ~~(S//TK)~~ An Integrated Product Team (IPT) will be formed from ~~b3~~ ~~b1 b3~~ and ~~b1 b3~~ assigned personnel to identify specific costs and responsibilities. In addition, the IPT will determine and approve the required ICDs. Should the IPT be unable to reach consensus, the signatories of this document will be consulted for final resolution. All information and requests between ~~b1 b3~~ developers and the ~~b1 b3~~ prime contractor shall be authorized by ~~b3~~

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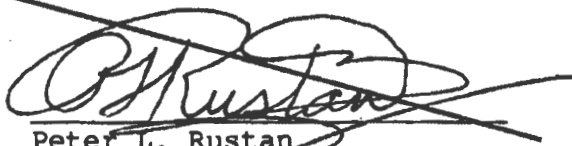
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SUBJECT: MOU BETWEEN THE NRO AND THE ~~b1 b3~~ ON  
INTEGRATION OF THE ~~b1 b3~~

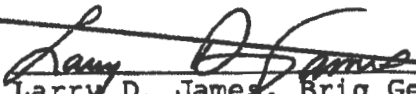
2. (~~S//TK~~) After launch, the IPT shall be reviewed for membership, and thereafter be responsible for approval of ~~b1~~ configuration uploads and operations. The primary mission of ~~b1~~ shall be the test and evaluation of the ~~b1 b3~~ technology and parts for future use in ~~b1 b3~~ and NRO payloads. Primary authority for design and conduct of the test operations shall rest with ~~b1 b3~~ or its assigned agents. Final authority for clearance of operations events shall rest with ~~b3~~
  
3. (~~S//TK~~) This MOU will take effect upon signature of the authorized representatives from the NRO and ~~b1 b3~~. As agreed to by all parties, or their designees, the MOU shall be reviewed every two years to determine its continued applicability. Either party may terminate the MOU by written notification to the other party. The MOU will terminate after such written notification.

~~b1 b3~~  
 \_\_\_\_\_  
 Director, ~~b1 b3~~  
 Research and Development,  
~~b1 b3~~

6 Dec 2006  
 \_\_\_\_\_  
 Date

  
 Peter L. Rustan  
 Director, Advanced Systems  
 and Technology, NRO

11/27/06  
 \_\_\_\_\_  
 Date

  
 Larry D. James, Brig Gen, USAF  
 Director, Signals Intelligence  
 Systems Acquisition and  
 Operations, NRO

6 Dec 06  
 \_\_\_\_\_  
 Date

~~SECRET//TK//25X1~~

UNCLASSIFIED

2007-04268

**MEMORANDUM OF UNDERSTANDING  
BETWEEN  
THE NATIONAL RECONNAISSANCE OFFICE,  
DEPUTY DIRECTOR FOR MISSION SUPPORT,  
OPERATIONAL SOLUTIONS GROUP  
AND  
THE NATIONAL COUNTERPROLIFERATION CENTER  
ON  
USE OF COLLABORATIVE LEARNING ENVIRONMENT ON NETWORKS FOR  
DISTRIBUTION OF ONLINE LEARNING MATERIALS**

**A. PURPOSE.** This Memorandum of Understanding (MOU) between the National Reconnaissance Office (NRO), Deputy Director for Mission Support (DDMS), Operational Solutions Group (OSG) and the National Counterproliferation Center (NCPC) sets forth an agreement that allows the NCPC to attach online materials to the NRO/DDMS/OSG Collaborative Learning Environment on Networks (CLEON) distance learning servers. This MOU does not establish a contractual relationship, nor does it require the transfer of appropriated funds.\

**B. BACKGROUND.** As part of its mission to oversee the US intelligence community's efforts to stop the proliferation of weapons of mass destruction, the NCPC is gathering and preserving videos and other information of historic and reference value. This will help ensure current and future generations of counterproliferation officers have easy access to them.

Until the NCPC establishes its own video hosting capability over the next two years, these materials are requested to be hosted on the CLEON to enable officers throughout the intelligence community to electronically access this information.

**C. SCOPE.** This MOU will establish an agreement that allows for the NCPC to distribute videos and other material on the existing distance education tool (CLEON), which is operated and maintained by the NRO/DDMS/OSG, until a video hosting capability is established by the NCPC within the next two years.

**D. RESPONSIBILITIES.**

1. The NRO/DDMS/OSG will:
  - a. Upload and administer the NCPC's materials on the CLEON infrastructure.

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**SUBJECT: MOU BETWEEN NRO/DDMS/OSG AND NCPC ON USE OF CLEON FOR DISTRIBUTION OF ONLINE COURSE MATERIALS**

b. Maintain the CLEON infrastructure in proper working condition and in accordance with Director of National Intelligence/Chief Information Officer directives.

2. The NCPC will:

a. Use NCPC resources to obtain materials in accordance with CLEON technical standards and requirements, ensuring minimal manipulation will be required by the CLEON staff to upload and maintain the material.

b. Ensure that the provider of content to the NCPC has reviewed and marked all materials for classification and dissemination controls. All videos and information to be transferred to NRO/DDMS/OSG for posting on CLEON should be accompanied by a signed letter or equivalent from the provider verifying a security content review has been accomplished.

**E. LICENSING COST SHARING.** If it is determined that additional software licensing cost will be incurred as a result of adding the NCPC's material to the NRO CLEON systems, then we will negotiate potential cost sharing agreements. If a cost sharing agreement needs to be implemented and/or modified, then a written request will be coordinated through the NRO/DDMS/OSG and the DDMS/Resource Management Group (RMG) for approval and funding prior to taking any action that would incur additional licensing costs to the DDMS.

**F. IMPLEMENTATION.**

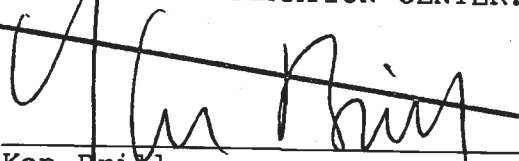
1. This MOU will take effect upon signature of the authorized representatives from NRO and NCPC. Signatories or their successors may request the renegotiation of all or part of this agreement. Changes to this agreement must be in writing and signed by both signatories or their successors. As the MOU custodian, the Director, NRO, will issue changes based upon mutual agreement.

2. This document will be reviewed every two years to determine its continued applicability. Either party may terminate the MOU by written notification to the other party. The MOU will terminate upon such written notification.

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SUBJECT: MOU BETWEEN NRO/DDMS/OSG AND NCPC ON USE OF CLEON FOR DISTRIBUTION OF ONLINE COURSE MATERIALS

CONCLUDED AND SIGNED IN TWO ORIGINALS FOR THE NATIONAL COUNTERPROLIFERATION CENTER:

~~~~

Ken Brill  
Director, National  
Counterproliferation Center

1/18/07  
Date

CONCLUDED AND SIGNED IN TWO ORIGINALS FOR THE NATIONAL RECONNAISSANCE OFFICE:

b3 b6  


Director, Operational  
Solutions Group  
Deputy Director for  
Mission Support

20 Dec 2007  
Date

**MEMORANDUM OF UNDERSTANDING  
BETWEEN  
NATIONAL RECONNAISSANCE OFFICE AND THE  
NORTHWEST FEDERAL CREDIT UNION  
FOR CREDIT UNION BRANCH AT NATIONAL RECONNAISSANCE OFFICE**

**A. (U//~~FOUO~~) PURPOSE.** This Memorandum of Understanding (MOU) updates and replaces the December 1993 agreement. On 21 July 1993, the Board of Directors of Northwest Federal Credit Union (NWFCU) authorized the addition of a branch and Automated Teller Machines (ATMs) for the National Reconnaissance Office (NRO). In addition, NWFCU received approval from the National Credit Union Administration to modify the field of membership. This modification encompasses personnel who are working in the facility that were not previously included in NWFCU's field of membership. The language of the recommended modification was jointly agreed upon by both parties and is as follows:

Personnel assigned or detailed to the Central Intelligence Agency (CIA) and other personnel who work for or with CIA on a common intelligence mission or project, namely:

1. (U//~~FOUO~~) Civilian employees of the CIA;
2. (U//~~FOUO~~) Military or civilian personnel of the Department of Defense and other U.S. Government agencies or components;
3. (U//~~FOUO~~) Contractor personnel assigned to the NRO.

**B. (U//~~FOUO~~) BACKGROUND.** This MOU between the NWFCU and NRO deals with participation by all NRO personnel - including CIA, DOD, and contractor personnel - as members of the NWFCU, and also with the installation and operation of a Credit Union branch and ATMs in the NRO Headquarters.

**C. (U//~~FOUO~~) RESPONSIBILITIES.**

1. (U//~~FOUO~~) The NRO will:
  - (a) (U//~~FOUO~~) Provide space and the use of building standard furnishings in the outfitting of the branch.

SUBJECT: MOU BETWEEN NRO AND NWFCU FOR CU BRANCH AT NRO

(b) (U//~~FOUO~~) b3

[REDACTED] It is understood that this delivery could be b3 [REDACTED] depending on the volume of business at the NRO branch.

(c) (U//~~FOUO~~) Provide baseline facility security measures in accordance to DCID 619. It is further understood that costs associated with the baseline security system will be borne by NRO.

(d) (U//~~FOUO~~) Agree that NWFCU follow its normal practice of utilizing regular commercial methods in collecting delinquent loans to include employing collection agencies or legal procedures in order to seek recovery for NWFCU.

2. (U//~~FOUO~~) The NWFCU will:

(a) (U//~~FOUO~~) Agree that money deliveries from

b3 [REDACTED] It is understood that this delivery could be b3 [REDACTED] depending on the volume of business at the NRO branch. The NWFCU will notify NRO of any anticipated changes in armored delivery service as soon as possible. Failure to provide timely notification could result in a disruption of branch operations.

(b) (U//~~FOUO~~) Agree to the facilities security requirements for the branch and related baseline facility security measures. It is further understood that costs associated with the baseline security system will be borne by NRO.

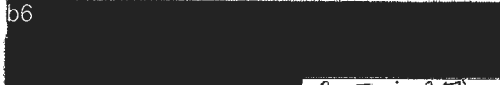
(c) (U//~~FOUO~~) Agree to the branch layout and the use of building standard furnishings in the outfitting of the branch.


**D. (U//~~FOUO~~) IMPLEMENTATION.** This MOU will take effect upon signature of the authorized representatives from the NRO and NWFCU. As agreed to by all parties, or their designees, the MOU shall be reviewed every two years to determine its continued applicability.

SUBJECT: MOU BETWEEN NRO AND NWFCU FOR CU BRANCH AT NRO

Either party may terminate the MOU by written notification to the other party. The MOU will terminate after such written notification.

b6

  
*acting CEO*  
President/CEO, NWFCU

  
Brian A. Malone  
Director, Management Services  
and Operations  
National Reconnaissance Office

5/19/06  
Date

April 21, 2006  
Date

**MEMORANDUM OF UNDERSTANDING BETWEEN MEMBERS OF THE  
WESTFIELDS EMERGENCY EVACUATION PROJECT ON EMERGENCY  
SITUATIONS**

The purpose of this Memorandum of Understanding (MOU) is to set forth the agreement reached by the members of the Westfields Emergency Evacuation Project (WEEP). It entails mutual cooperation and support regarding the evacuation and relocation of their respective personnel during emergency situations. (See attached WEEP membership list for participants) These emergency situations/disasters include, but are not limited to, the following: fire, bomb threats, natural disasters, terrorist threats, and weapons of mass destruction.

The WEEP members will meet as necessary to establish, review, and implement standards and procedures for mutual cooperation and support. The members also agree to notify each other in a timely manner about such things as heightened states of security (FPCON), emergency preparedness exercises, and any other situations that might affect the security or operations of another member's facility.

Each member will establish internal procedures in order to expedite the relocation of another member's population into their facility. These procedures will be shared with other WEEP members.

The mutual cooperation and support of WEEP members will be performed on a non-reimbursable basis. Costs incurred by each of the members are expected to be negligible. However, this non-reimbursable status is based on the assumption that the events that will activate the support roles will be relatively infrequent. Should the members determine that the costs associated with the mutual support can no longer be considered negligible, the members have the right to re-examine the non-reimbursable status.

This MOU is effective when signed. The conditions herein may be amended or terminated by mutual agreement. Each organization agrees to notify the other at the earliest possible convenience of changes or modifications to existing organizational policies which may affect this agreement.

**WESTFIELDS EMERGENCY EVACUATION PROJECT (WEEP)  
MEMBERSHIP LIST**

National Reconnaissance Office



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UNCLASSIFIED//FOR OFFICIAL USE ONLY

Brian Malone  
Brian Malone, Director,  
Management Services  
& Operations, National Recon-  
naissance Office  
Date: April 4, 2008

[Redacted] b6  
[Redacted] b7f

Director, [Redacted] b7f

Date: 6.19.2008

[Redacted] b6  
[Redacted] b7f  
Director of Security,

[Redacted] b7f  
Date: 5-6-08

[Redacted] b6  
[Redacted] b7f

Director of Security, [Redacted] b7f  
Date: 5 APRIL 08

[Redacted] b6 b7f  
SECURITY MAINTENANCE [Redacted] b7f

[Redacted] b6 b7f  
29 MAY 08

Director of Security  
[Redacted] b7f



2006-04075

MEMORANDUM OF UNDERSTANDING  
BETWEEN  
THE NATIONAL RECONNAISSANCE OFFICE  
OFFICE OF SECURITY AND COUNTERINTELLIGENCE  
AND  
THE DEPARTMENT OF THE AIR FORCE  
SECURITY, CI AND SPECIAL PROGRAMS OVERSIGHT  
AND  
THE DEPARTMENT OF THE NAVY  
SPECIAL PROGRAMS DIVISION (N89)  
AND  
THE DEPARTMENT OF THE ARMY  
TECHNOLOGY MANAGEMENT OFFICE  
ON  
RECIPROCITY FOR SPECIAL ACCESS PROGRAMS

**A. (U) Purpose.**

This Memorandum of Understanding documents the procedures by which individuals determined by the NRO to be security eligible for access to Sensitive Compartmented Information (SCI) will also be security eligible for access to Department of Defense Special Access Programs (SAPs) within the USAF, USN, and USA (hereafter referred to as the Military Departments).

**B. (U) References.**

1. Intelligence Reform and Terrorism Prevention Act of 2005.
2. Executive Order 13381, Strengthening Processing Relating to Determining Eligibility for Access to Classified National Security Information, dated 28 June 2005.
3. Director of Central Intelligence Directive 6/4, Personnel Security Standards, dated April 2005.
4. Department of Defense Directive 5205.7, Special Access Program Policy, 5 January 2006
5. Joint Air Force Army Navy (JAFAN) Manual 6/4, Special Access Program Tier Manual, dated 23 August 2005.

**C. (U) Background.**

JAFAN 6/4 delineates and standardizes the process for determining access eligibility and reciprocity for SAPs among the Military Departments. JAFAN 6/4

requirements have also been adopted by several Department of Defense SAP components. SCI access eligibility determinations made by the NRO have not been reciprocally accepted for NRO personnel requiring SAP access. Subsequent meetings with the Military Departments SAP representatives determined that NRO procedures for making SCI eligibility determinations are equivalent to JAFAN 6/4 requirements. To ensure universal acceptance, and compliance with IRTPA and EO 13381, this MOU will provide the basis for security eligibility reciprocity for those individuals who require access to SAPs.

**D. (U) Responsibilities.**

1. NRO/Office of Security and Counterintelligence will:

- a. submit for SAP access those NRO individuals, either government of contractor, who meet security eligibility for access to SCI, who are free from waivers, and whose SSBI is within scope (5 years);
- b. indicate that those NRO individuals whose SSBI is out of scope have a periodic reinvestigation initiated prior to request for SAP access;
- c. submit requests for SAP access via the SAP Format 1 form;
- d. fully comply with the requirements of the JAFAN for any NRO individual who has a waiver to DCID 6/4 standards; and
- e. accept requests for SCI/SAP access for those individuals submitted by the Military Departments who have been granted SAP access based upon a favorable Tier Review, adjudicated to either DCID or JAFAN 6/4 standards without waiver and within scope SSBI (5 years or periodic reinvestigation initiated).

2. Military Departments will:

- a. accept requests from the NRO for SAP access for security eligible individuals as described above; and
- b. submit for SCI/SAP access only those individuals who have been favorable adjudicated to either DCID or JAFAN 6/4 standards via the Tier Review process and who are required to agree in writing, prior to being briefed into an NRO SCI/SAP program, to be subject to a counterintelligence scope polygraph. Such individuals must have an in-scope SSBI, or have a periodic reinvestigation initiated, without waiver.

**E. (U) IMPLEMENTATION.**

This MOU will take effect upon signature of the authorized representatives from the NRO and the signatures of each of the departments comprising the Military Departments. As agreed to by all parties, or their designees, the MOU shall be

reviewed every two years to determine its continued applicability. Any of the four signatories may terminate the MOU by written notification to the other parties. The MOU will terminate between the NRO and the affected Military Department element(s) after such notification.

~~Mary Rose McCaffrey~~  
Mary Rose McCaffrey  
Director, Office of Security  
And Counterintelligence, NRO

23 June 06  
Date

~~John B. Hennessey~~  
John B. Hennessey  
Director, Security, CI and Special Programs  
Oversight, USAF

23 June 06  
Date

~~Michael Kobbe~~  
Michael Kobbe  
Director, Technology Management Office, USA

23 June 2006  
Date

~~John E. Pic~~  
John E. Pic  
Director, Special Programs Division  
CNO (N89), USN

6/23/2006  
Date

**UNCLASSIFIED**

(CLASSIFY AS APPROPRIATE WHEN FILLED IN)

PROGRAM ACCESS REQUEST					
1. Program Name		2. Access Level		3. Date Requested	
4. Last Name, First Name, Middle Initial		5. Rank/Grade	6. U.S. Citizen <input type="checkbox"/> Yes <input type="checkbox"/> No		6. SSN
7. Date of Birth (YYMMDD)	8. State/Country of Birth		9. <input type="checkbox"/> Military <input type="checkbox"/> Government Civilian <input type="checkbox"/> Contractor		10. Date Needed By
11. Position Description/Job Title			12. <input type="checkbox"/> Full Time <input type="checkbox"/> Temporary (Period of access) <input type="checkbox"/> Part Time (From _____ To _____)		
13. Organization/Company Name		14. Assignment/Job Location (City & State)		15. Command/Facility/Office Symbol/Agency Identifier (if any)	
16. Security Clearance	17. Granted By	18. Date Granted	19. Investigation Type	20. Conducted By	21. Date Completed
22. Security Investigation Status (results of JPR Personal Access System (JPAS) check) <input type="checkbox"/> In Progress (Date Initiated/Submitted: _____ (YYMMDD) <small>(include additional information in the "Remarks" section below as needed)</small> <input type="checkbox"/> Current <input type="checkbox"/> Out-of-Scope Approval: _____ (YYMMDD)			23. Defense Central Investigations Index (DCII) Check (conducted by Government) Conducted By: _____ Date Checked: _____ (YYMMDD) <input type="checkbox"/> Acceptable DCII check results <input type="checkbox"/> Referred to next Tier Review Official level		
24. Justification (CLASSIFICATION) (include detailed justification as to how this candidate will support and contribute to the program) (CONTINUE ON SEPARATE SHEET IF NECESSARY)					
25. Requestor (Government/Contractor)					
Typed Name/Title/Organization		Signature		Date	
26. Additional Coordination (As Necessary)					
Typed Name/Title/Organization		Signature		<input type="checkbox"/> Concur <input type="checkbox"/> Non-Concur Date:	
27. Government SAP Security Officer/Contractor Program Security Officer (GSSO/CPSO)					
Typed Name/Title/Organization		Signature		<input type="checkbox"/> Concur <input type="checkbox"/> Non-Concur Date:	
28. Government/Contractor Program Manager (GPM/CPM)					
Typed Name/Title/Organization		Signature		<input type="checkbox"/> Concur <input type="checkbox"/> Non-Concur Date:	
Tier Review (Refer to JAPAN G4 Tier Review Process Manual) (Government/Contractor)					
29. FIRST TIER REVIEW OFFICIAL (TRO) (Typed Name/Title/Organization)		Signature		<input type="checkbox"/> First Tier Eligible <input type="checkbox"/> First Tier Ineligible Date:	
30. SECOND TIER REVIEW OFFICIAL (TRO) (Typed Name/Title/Organization)		Signature		<input type="checkbox"/> Concur <input type="checkbox"/> Non-Concur Date:	
31. THIRD TIER REVIEW OFFICIAL (TRO) (Typed Name/Title/Organization)		Signature		<input type="checkbox"/> Concur <input type="checkbox"/> Non-Concur Date:	
32. Government Program Security Officer (PSO) (Government Only)					
Typed Name/Title/Organization		Signature		<input type="checkbox"/> Concur <input type="checkbox"/> Non-Concur Date:	
33. Access Approval Authority (AAA) (Government Only)					
Typed Name/Title/Organization		Signature		<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved Date:	
34. Remarks/Restrictions (CONTINUE ON SEPARATE SHEET IF NECESSARY)				Derived From: Declassify On:	

SAF Format 1-JAPAN G4 Edition (Rev-1), "Program Access Request," Jan 2006 PREVIOUS EDITIONS ARE OBSOLETE

NOTE: The Privacy Act & U.S.C. 552a, requires that Federal agencies inform individuals of the use information is acquired from them, disclose the disclosure authority or authority, by what authority such information is collected, and what use will be made of the information. You are hereby alerted that continuing your Social Security Account Number (SSAN) to Government Order (GO) Form 2846-01 to assist in identifying you possibly opens to disclosure to 3 clarify that you have access to the information submitted above as it concerns this PR.

**UNCLASSIFIED**

(CLASSIFY AS APPROPRIATE WHEN FILLED IN)

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2005-03918

MEMORANDUM OF UNDERSTANDING  
BETWEEN  
THE NATIONAL RECONNAISSANCE OFFICE  
AND  
THE DEFENSE INFORMATION SYSTEMS AGENCY  
ON

b1 b3

A. ~~(S)~~ PURPOSE. This Memorandum of Understanding (MOU) between the National Reconnaissance Office (NRO) and the Defense Information Systems Agency (DISA) formally documents the

b1 b3

B. (U) REFERENCES.

1. (U) Department of Defense Directive 8500.1, Information Assurance, 24 October 2002 - Certified Current as of 21 November 2003

2. (U) Director of Central Intelligence Directive 6/3, Protecting Sensitive Compartmented Information Within Information Systems, 5 June 1999 - Administratively Updated 1 May 2003

3. (U) Director of Central Intelligence Directive 6/3, Industry Annex, 1 August 2000 - Administratively Updated 11 December 2003

4. (U) Department of Defense Information Technology Security Certification and Accreditation Process (DITSCAP), 12 December 1997

5. (U) Intelligence Community Policy for Keyboard/Video/Mouse Switch Device Usage, VI.08, 23 April 2003

CL By: b3  
CL Reason: 1.4(c)  
DECL ON: 25X1  
DRV From: NCG 6.0., 21 May 05

~~SECRET//25X1~~

~~SECRET~~//25X1

SUBJECT: ~~(S)~~ MOU BETWEEN NRO AND DISA ON b1 b3

b1 b3

6. (U) NRO Certification and Accreditation Process for Information Systems, v3.0, 30 June 2005

C. (U//~~FOUO~~) BACKGROUND. The NRO uses Director of Central Intelligence Directive (DCID) 6/3, Protecting Sensitive Compartmented Information Within Information Systems, and the NRO C&A Process for Information Systems (NRO C&A Manual) as the standard for ISS security accreditation. DISA uses the DITSCAP to certify and accredit ISS that are managed by DISA.

D. (U) RESPONSIBILITIES.

(U) NRO will

1. (U//~~FOUO~~) Certify and accredit b1 b3

2. (U//~~FOUO~~) b1 b3 All documentation will be forwarded in a separate package classified at the appropriate security level.

3. (U//~~FOUO~~) Adhere to the NRO C&A Manual for re-accreditation and security relevant changes to conduct re-evaluations of the approvals to operate.

4. ~~(S)~~ Notify DISA b1 b3

(U) DISA will

1. ~~(S)~~ b1 b3 DISA will b1 b3

2. ~~(S)~~ b1 b3

~~SECRET~~//25X1

~~SECRET//25X1~~

SUBJECT: ~~(S)~~ MOU BETWEEN NRO AND DISA b1b3

b1 b3

E. (U) AGREEMENT.

1. ~~(S)~~ The NRO will b1 b3

2. (U//~~FOUO~~) The NRO will accept DITSCAP as the accreditation standard for DISA's ISSs.

3. (U//~~FOUO~~) DISA will accept DCID 6/3 as the accreditation standard for NRO's ISSs.

F. (U) IMPLEMENTATION. This MOU will take effect upon signature of the authorized representatives from the NRO and DISA. As agreed to by all parties, or their designees, the MOU will be reviewed every two years to determine its continued applicability. Either party may terminate the MOU by written notification to the other party. The MOU will terminate 90 days after such written notification.

b6

*Susan Gragg*

Dr. Susan Gragg  
Chief Information Officer,  
National Reconnaissance Office

Officer,  
Systems

Agency

12/05/05

Date

2/27/06

Date

~~SECRET//25X1~~