

**Aerospace Data Facility-Colorado/
Denver Security Operations Center
Buckley AFB, Colorado**

Version of 2011-11-28



*Additional material for this
sourcebook would be welcome.
Please send it to thomsona@flash.net*

**NRO DIRECTOR OF SECURITY AND COUNTERINTELLIGENCE
NOTE 2008-05**

23 October 2008

**(U) MISSION GROUND STATION DECLASSIFICATION
MANDATORY TRAINING**

(U) The Director, National Reconnaissance Office has decided that all NRO employees are required to complete the MGS Declassification awareness training.

(U) This requirement applies to all NRO components, employees, and badged contractors. In deference to the fact this will be made a requirement in the future for acceptance of visit certifications to Mission Ground Stations (MGSs), all affiliated contractors are strongly encouraged to avail themselves to this training as well.

(U) Effective, 15 October 2008, the "fact" that the NRO has (U) three domestic Mission Ground Stations (MGSs) located near Washington D.C.; Denver, CO; and Las Cruces, NM can be, for the first time, acknowledged as an unclassified fact. These locations have been renamed and should now be referred to as Aerospace Data Facility, East; Colorado; and Southwest respectively.

(U) Furthermore, effective this same date, the NRO's "presence" at RAF Menwith Hill (RAFMH), located near Harrogate, United Kingdom and the Joint Defence Facility Pine Gap (JDFPG), located near Alice Springs, Australia, can be acknowledged as an unclassified fact.

(U) With this change comes a responsibility to stay informed. All employees and affiliates are reminded that you must be aware that program specific information and associations will remain classified and unchanged.

~~(S//TK//NF)~~ The Office of Security and Counterintelligence (OS&CI) has provided many different links to access the training/information from a multitude of locations below:

<http://www.nrosecurity.npa.gov/mgsdeclassification> (NMIS, GWAN)

[http://\(b\)\(1\)\(1\)&c/mgsdeclassification/](http://(b)(1)(1)&c/mgsdeclassification/) (JWICS)

~~SECRET//TK//NOFORN~~

http://www.intelink.ic.gov/wiki/NRO_Mission_Ground_Stations Declassification (Intellipedia)

<http://www.adf.npa.gov/gso/Declass/index.html> (ADF-C Declassification Website - requires access to IMIS)

<http://atoms.adftools.npa.gov/Training/index.html> (NRO MSG Declassification CBT - requires access to IMIS and a ADF-C training account)

<http://college.nga.ic.gov/cbt/mdt2> (NRO MSG Declassification CBT - requires access to NGA Net)

***Forge Locations** (must have forge account):

<https://soforge.tasc.npa.gov/web/declassify/index.html> (NMIS/CWAN)

<https://soforge.adftools.npa.gov/web/declassify/index.html> (IMIS)

<https://midasforge.opsln.do.nsa/web/declassify/index.html> (NSANet)

<https://snapple.enet.gops.npa.ic.gov/web/declassify/index.html> (RUNWAY)

<https://rfmf01.pnet.gops.npa.ic.gov/web/declassify/index.html> (RAINFALL)

(U) If you have any questions regarding the MGS Declassification, please contact your Program Security Officer (PSO).

//signed//
Robert Harney
Acting Director, Office of
Security and Counterintelligence

U.S. Air Force Fact Sheet
MAJOR TENANT ORGANIZATIONS

[Retrieved 2009-05-23]

Aerospace Data Facility-Colorado

The Aerospace Data Facility-Colorado is a multi-mission ground station responsible for supporting worldwide defense operations and multi-agency collection, analysis, reporting, and dissemination of intelligence information. It provides data to defense, intelligence, and civil agencies supporting the U.S. Government and its Allies.

566th Intelligence Squadron

The history of the 566th Intelligence Squadron (IS) begins in the midst of World War II, when the 16th Photographic Technical Unit was activated on Nov. 5, 1944, at Charleroi, Belgium. Subordinate to the 67th Tactical Reconnaissance Group, the 16th Photographic Technical Unit was assigned at several bases throughout Europe, including Vogelsang, Limburg, and Eschwege, Germany, as well as in France. Following World War II, the unit moved to MacDill Field, Fla., where it was decommissioned on Dec. 21, 1945.

The unit remained inactive until Sept. 7, 1993, when the 16th Intelligence Squadron was activated at Buckley Air National Guard Base, Colo. The unit was re-designated the 566th Operations Support Squadron (OSS) on Oct. 1, 1995. Renamed later as the 566th Information Operations Squadron (IOS) on Aug. 1, 2000, this unit aided Buckley in its transition from an Air National Guard base to an active duty Air Force base.

The primary mission of the 566th IS is force provider to the Aerospace Data Facility-Colorado, providing leading-edge information superiority and technical support in the performance of joint national system missions.

Joint Force Headquarters - Colorado

Joint Force Headquarters - Colorado, consisting of the JFHQ-CO Commander (The Adjutant General of Colorado), Director of Joint Staff, Ground Forces Component Commander, Air Forces Component Commander, Space Forces Component Commander, and their respective subordinate staffs, commands and controls all assigned Colorado Army and Air National Guard units and other assigned forces. JFHQ-CO provides trained and equipped forces that are combat ready, relevant, reliable and accessible to accomplish the full spectrum of federal and state missions. On order of the president and/or the governor, as appropriate, JFHQ-CO executes assigned missions and provides support and/or command and control for other forces, such as DoD elements and agencies.

JFHQ-CO coordinates and conducts training with civil authorities on a regular basis to ensure processes are in place when terrorism or disaster strikes. Within 72 hours after Hurricane Katrina laid her trail of destruction, JFHQ-CO had troops arriving in the first military aircraft to land at Gulfport, Miss., since the storm passed. Colorado Soldiers and Airmen continued to support the hardest hit areas of Mississippi and Louisiana throughout the relief efforts, while maintaining readiness to support global war operations and domestic emergencies.

140th Wing

More than 75 years ago, the 140th Wing's subordinate unit, the 120th Fighter Squadron, mustered into the Colorado Army National Guard as the 120th Observation Squadron, 45th Division - Aviation. The unit initially flew Curtis JNSEs (better known as Jennies) - an aircraft which eventually proved unsuitable for Denver's high

elevations. Nonetheless, the 120th persevered, flying just before sunrise and after sunset, when air is less turbulent.

Mobilization for World War II took place on January 6, 1941, 11 months prior to the bombing of Pearl Harbor. The unit then moved to Biggs Field, Texas and remained intact until the war when the 120th disbanded and its members dispersed to share their knowledge and experience in the nation's rapidly growing Air Corps.

In 1946, the 120th reorganized to become a separate entity. That year the unit became the first Air National Guard unit to be federally recognized. Reactivated as the 120th Tactical Fighter Squadron, the squadron began flying the P-51 Mustang. Also formed was the 140th Fighter Group - later to become the 120th Fighter Squadron and 140th Wing, respectively.

Shortly after World War II, in 1947, during the days of the "barnstormers," the 120th TFS organized an aerial demonstration team called the "Minute Men." This team was federally recognized in 1956, making it the first and only Air National Guard aerial demonstration team, recognized at the same level as the Thunderbirds. The Minute Men performed before more than three million people in 47 states and five foreign countries before losing funding in 1959. The team traveled an estimated 1,135,000 miles - equivalent to six and a half times around the planet.

This highly decorated unit has been mobilized for World War II, the Korean War, the Berlin Crisis, the Cuban Missile Crisis, the Pueblo Crisis and Vietnam, in addition to many domestic efforts. During the Pueblo Crisis the 120th spent 15 months on active duty, including a year at Phan Rang Air Base, Vietnam.

More recently, the Wing has been called upon for service in Operation Desert Storm, Operations Northern and Southern Watch, Operation Noble Eagle, Operation Enduring Freedom and Operation Iraqi Freedom.

Hours after the planes hit the World Trade Center, on Sep. 11, 2001, dedicated aircrews had jets patrolling Colorado skies ready to challenge any who would threaten freedom. That mission became the Air Sovereignty Alert mission and continues today.

Colorado Army National Guard

The Colorado Army National Guard maintains 23 armories, and is present in 20 communities. The major units of the Colorado Army National Guard are:

- * Joint Force Headquarters - Colorado
- * 89th Troop Command
- * 100 Ground Missile Defense Brigade
- * 169th Field Artillery Brigade

The Colorado Army National Guard has nearly 3,000 men and women spread across more than 49 units.

The mission of the Colorado Army National Guard is to, at the federal level, provide combat ready Citizen-Soldiers, leaders and units in support of the National Security Strategy, and to, at the state level, provide Citizen-Soldiers, leaders and units to serve and protect Colorado citizens during natural disasters and civil emergencies.

The history of the Colorado National Guard begins in January 1860, when the first General Assembly of the Jefferson Territory authorized the formation of two military companies -- the "Jefferson Rangers" and the "Denver Guards."

Feb. 26, 1861, Colorado became a territory of the Union and William Gilpin, the first Governor, organized the "Colorado Volunteers" for the defense of the territory and to oppose the invasion of Confederate forces during the Civil War, already under way.

April 27, 1898, the Colorado Guard was mobilized for service in the Spanish-American War and June 14, 1898, sailed for the Philippines. Colorado units participated in numerous battles and played a large role in the capture of Manila. It was on the battlefields of the Philippines that Colorado's only Medal of Honor recipient, Lt. Col. William R. Grove, fought bravely for his country.

The Colorado National Guard was recalled for Federal service in 1950 for the Korean Conflict, 1961 during the Berlin Crisis, 1968 for service in Vietnam and during the Persian Gulf in 1990-1991 during Operation Desert Shield/Storm (the 1157th Transportation Company of the Colorado Army National Guard was the first National Guard unit on the ground in Saudi Arabia).

In 1999 the Colorado Army National Guard supported approximately 234 counter-drug missions on behalf of the Joint Support Office. In addition to spotting a downed aircraft near Pagosa Springs, aviation assets assisted in various Search and Rescue missions including the rescue of hunters in Summit and Eagle Counties and a downed aircraft at Wolf Creek Pass. COARNG units were also called up for state contingencies in support of flood victims in La Junta.

In response to the September 11, 2001 attack on U.S. soil, the COARNG mobilized more than 2,600 Guard members to provide forces in Afghanistan and Iraq. Many Guard members served on military bases during Operation Enduring Freedom and Operation Iraqi Freedom.

In August and September 2005, Task Force Colorado I and II mobilized nearly 1,000 Army Guard members to provide search and rescue, humanitarian support and provide security for the citizens of New Orleans, La., following the aftermath of Hurricane Katrina. The mission required rapid mobilization - the Colorado Army Guard met the challenge and provided immediate coordination within hours of being notified. Our Citizen-Soldiers have proven themselves in the past and will continue to provide responsive, coordinated and steeled support in the future.

743rd Military Intelligence Battalion

The 743rd Military Intelligence Battalion supports a multitude of DoD information processing and analysis operations. The battalion strives to be the foremost military intelligence battalion in the U. S. Army, providing leading-edge information superiority and technical support to Combatant Commands, the U.S. Government and its allies. The Battalion is comprised of three companies: Headquarters Operations, Alpha, Bravo, and one overseas detachment. The battalion has supported every U. S. contingency operation since 1989.

The unit traces its lineage back to 1954 when the Headquarters and Headquarters Detachment, Army Security Agency Troop Command, and 7200th Administrative Area Unit organized at Fort George G. Meade, Md.

On Nov. 8, 1963, the Army Security Agency Troop Command was redesignated the Army Security Agency Support Group. With the redesignation of the Army Security Agency as the U.S. Army Intelligence and Security Command in 1977, the Army Security Agency Support Group became the Continental United States Military Intelligence Group on Nov. 1, 1977.

In March 1980, the Army redesignated the group as the 704th Military Intelligence Brigade.

On Oct. 3, 1989, the 743rd Military Intelligence Battalion was provisionally activated at Fort Meade, and the Department of the Army formally approved it in 1990 as a subordinate unit of the 704th Military Intelligence Brigade. The 743rd Military Intelligence Battalion was organized to provide improved command, control and support to the 704th Military Intelligence Brigade detachments located at other Services' and National-level sites around the world.

In July 1998, the battalion underwent major reorganization as the headquarters moved to Colorado. With the move came a marked change in mission: to support the joint activity at Buckley Air Force Base.

The unit's official page can be viewed at
http://www.carson.army.mil/UNITS/743dMIBn/743Homepage/Main_Frame.htm.

Army Aviation Support Facility (AASF)

The mission of the AASF is to train Colorado Army National Guard aircrew members to support their wartime and state missions, maintain mission-ready aircraft, and to rapidly respond to state emergencies.

The AASF supports a general support aviation battalion (GSAB), a MEDEVAC detachment, a security and support (S&S) company, and an operational support airlift detachment including over 430 soldiers and 24 aircraft.

Marine Air Control Squadron 23, Marine Air Control Group 48, 4th Marine Aircraft Wing

Marine Air Control Squadron 23 trains to provide surveillance and control of aircraft, and surface-to-air weapons for anti-air warfare, airspace management, and surface-to-air missile fire in defense against theater missile attack.

Quebec Battery, 5th Battalion, 14th Marines, 4th Marine Division

Quebec Battery trains to furnish close and continuous fire support by neutralizing, destroying or suppressing targets that threaten the success of the supported unit. This is accomplished through the combined use of Forward Observers, the Fire Direction Center and the Gun Crews manning the M198 155MM Towed Howitzer.

Company A, Marine Cryptologic Support Battalion

Company A's mission is to provide trained, deployable Marines to support operations at the Aerospace Data Facility. The Company maintains personnel readiness to augment Radio Battalions or other operational deployments as required.

Bravo Company, Intelligence Support Battalion, Marine Forces Reserve

Bravo Company provides task-organized detachments of intelligence personnel to augment active component elements, joint commands, and national agencies in time of crisis, contingency, and war.

Headquarters, 169th Field Artillery Brigade

The Field Artillery units in the state of Colorado are the largest and the oldest of the Army National Guard, fighting in the War with Spain, the Philippine Insurrection, and both World War I and World War II.

These artillery units, known as the "King of Battle," bring a lethal arsenal to the battlefield. Currently, their main weapon is the MLRS (Multiple Launch Rocket System). These fast-moving missile launching platforms fire a fast and deadly arsenal at the enemy, destroying entire enemy grid zones.

United States Coast Guard Cryptologic Unit - Colorado

The United States Coast Guard Cryptologic Unit -- Colorado was commissioned at Buckley Air Force Base on Oct. 3, 2007.

Coast Guard men and women assigned to Buckley conduct technical training and analysis of the maritime domain in support of tactical and operational fleet commands, the Coast Guard Intelligence enterprise, combatant commanders and national policymakers.

In conjunction with their daily analytical duties, members of the unit simultaneously develop, train and refine their cryptologic skills to support future afloat operations in the Coast Guard.

Contacting the CGCU-Colorado
CGCU-Colorado
(Attn: US Coast Guard)
17950 E. Steamboat Ave
Stop 6, Building 26
Aurora, CO 80011
Phone: 720-847-5356/5357

Contact Information
460th Space Wing Public Affairs
510 S. Aspen St. (Stop 88)
Buckley AFB, CO 80011
Ph: 720-847-9431



99520567	G		DJCF-1A	MENWITH HILL-1A	39.5	03.05.2000	CR/C	1953
99520566	G		DJCF-2A	MENWITH HILL-2A	-39	03.05.2000	CR/C	1954
96520580	G		USCSID-A1	MENWITH HILL-A1	0	21.06.2000	CR/C	1955
96520581	G		USCSID-A2	MENWITH HILL-A2	44	21.06.2000	CR/C	1956
96520582	G		USCSID-E1	MENWITH HILL-E1	-10	21.06.2000	CR/C	1957
96520583	G		USCSID-E2	MENWITH HILL-E2	-13	21.06.2000	CR/C	1958
96520584	G		USCSID-E3	MENWITH HILL-E3	-24	21.06.2000	CR/C	1959
96520585	G		USCSID-E4	MENWITH HILL-E4	-30	21.06.2000	CR/C	1960
96520575	USA		USCSID-E1	DCEETA-E1	-10	04.05.2000	CR/C	1961
96520576	USA		USCSID-E2	DCEETA-E2	-13	04.05.2000	CR/C	1962
96520577	USA		USCSID-E3	DCEETA-E3	-24	04.05.2000	CR/C	1963
96520578	USA		USCSID-E4	DCEETA-E4	-30	04.05.2000	CR/C	1964
100520527	USA		USDKH2	DCEETA-KH2	-30.4	19.12.2000	CR/C	1965
100520533	USA		USDKA2	DCEETA-KA2	-69	04.05.2000	CR/C	1966
96520579	USA		USCSID-W1	DCEETA-W1	-141	04.05.2000	CR/C	1967
96520586	USA		USCSID-W2	DCEETA-W2	-144	04.05.2000	CR/C	1968
100520518	USA		USDKA2	BUCKLEY1-KA2	-69	04.05.2000	CR/C	1969
96520571	USA		USCSID-W1	BUCKLEY1-W1	-141	04.05.2000	CR/C	1970
96520572	USA		USCSID-W2	BUCKLEY1-W2	-144	04.05.2000	CR/C	1971
96520573	USA		USCSID-W1	BUCKLEY2-W1	-141	04.05.2000	CR/C	1972
96520574	USA		USCSID-W2	BUCKLEY2-W2	-144	04.05.2000	CR/C	1973
100520519	USA		USDKA2	BUCKLEY2-KA2	-69	04.05.2000	CR/C	1974
99520563	AUS		DEF-R-SAT-1A	JDFPG-1A	82	04.05.2000	CR/C	1975
99520564	AUS		DEF-R-SAT-2A	JDFPG-2A	72	04.05.2000	CR/C	1976
99520565	AUS		DEF-R-SAT-3A	JDFPG-3A	93	04.05.2000	CR/C	1977
96520567	AUS		USCSID-A3	JDFPG-A3	75	16.06.2000	CR/C	1978
96520568	AUS		USCSID-A4	JDFPG-A4	82	16.06.2000	CR/C	1979
96520569	AUS		USCSID-A5	JDFPG-A5	92	16.06.2000	CR/C	1980
96520570	AUS		USCSID-A6	JDFPG-A6	110	16.06.2000	CR/C	1981
102520594	G		DJCF-1B	SPECIFIC UK KU-1B	46	25.06.2002	CR/C	1982
102520593	G		DJCF-2B	SPECIFIC UK KU-2B	-26	25.06.2002	CR/C	1983

Sourcebook note: DCEETA is the Defense Communications Electronics Evaluation and Testing Activity at Fort Belvoir, Virginia. DCEETA was renamed the Aerospace Data Facility East sometime in 2007 or 2008. JDFPG is the Joint Defense Facility Pine Gap near Alice Springs, Australia.

<http://www.airforcetimes.com/news/2011/11/air-force-one-star-generals-nominated-112811/>

Air Force announces 1-star nominations

Staff report

Posted : Monday Nov 28, 2011 15:46:10 EST

[EXCERPTS]

The president has approved the nomination of 39 colonels for promotion to the rank of brigadier general. These promotions take effect upon Senate confirmation.

- Col. Ronald L. Huntley, commander, Space Operations Wing, Aerospace Data Facility-Colorado, National Reconnaissance Office, Aurora, Colo.

<http://www.airforcetimes.com/news/2010/12/ap-colonel-at-buckley-nominated-for-general-121510/>

Colonel at Buckley nominated for general

The Associated Press

Posted : Wednesday Dec 15, 2010 9:21:53 EST

BUCKLEY AIR FORCE BASE, Colo. — An Air Force colonel stationed at Buckley Air Force Base has been nominated for promotion to general.

The Defense Department said Tuesday that Stephen T. Denker has been nominated for brigadier general.

Denker is commander of the Space Operations Wing, Aerospace Data Facility-Colorado, National Reconnaissance Office.

Buckley is in the Denver suburb of Aurora.

<http://www.bizjournals.com/denver/stories/2010/07/12/focus2.html>

Buckley Air Force Base continues to grow, keep its secrets

Premium content from Denver Business Journal - by Greg Avery

Date: Monday, July 12, 2010, 12:00am MDT - Last Modified: Thursday, July 8, 2010, 11:30am MDT

Buckley transformed from a National Guard air base into a full Air Force base a decade ago. The government has been expanding the base from 2.5 million square feet of offices in 2005 to more than 4.8 million today.

Buckley Air Force Base in Aurora is one of the region's biggest economic drivers in aerospace.

About 12,100 people in military and civilian aerospace work at Buckley, with another 6,000 working off base in the offices of major contracting companies. That's about 18,000 people out of the state's estimated 100,000 military or commercial aerospace employees.

The Air Force's 460th Space Wing, based at Buckley, estimates the base drove \$1.04 billion in economic activity in Aurora in 2009. But its economic impact probably is far larger. That's because classified spy satellite work done at Buckley is believed to rival in scale the acknowledged military work at the base.

"When you consider that, its impact has got to be considered enormous," said Dick Hinson, senior vice president of the Aurora Economic Development Council.

The federal government has never disclosed everything that goes on at Buckley.

Hinson is an 18-year veteran of economic development in Aurora. But his first time inside Buckley happened just last year.

The National Reconnaissance Office (NRO), which manages satellite contracts for military and civilian space agencies, officially declassified its presence at Buckley in 2008.

Buckley transformed from a National Guard air base into a full Air Force base a decade ago. The government has been expanding the base from 2.5 million square feet of offices in 2005 to more than 4.8 million today.

The main tenant at Buckley is the Air Force's Aerospace Data Facility, the nation's major domestic downlink site for military spy satellites.

The NRO, the National Security Agency and the National Geo-Spatial Agency also work there.

The 460th Space Wing said the local economic impact of its construction at Buckley in 2009 was \$35 million.

The office of the Director of National Intelligence has budgeted to build permanent office buildings at Buckley to replace modular ones where 500 intelligence staffers work.

It's unclear what they're doing and which agencies they work for.

"What has been known is that Buckley's been the fastest-growing military base in the U.S.," said Elliot Pulham, executive director of the Space Foundation, a Colorado Springs-based industry group. "They've poured millions into that base in recent years."

It's only been in the past year that some of the agencies have publicly admitted their presence at Buckley.

“Everyone always knew that Aurora was fairly large militarily,” Hinson said. “Nobody, except the people who actually worked in the facilities, had any idea what was going in there or the real scale of the intelligence operations.”

That made economic development chats — conversations usually reliant on dropping names of respected major employers — awkwardly vague when people connected to Buckley were involved, Hinson said.

“If you wanted to get people all goosey about things in a hurry, just mention the NRO,” Hinson said, chuckling.

The base’s primacy in the Aurora economy is being challenged today.

About 15,000 people work a few miles north of Buckley at the Fitzsimons Life Science District. The growing hospital and medical research site is expected to surpass the Air Force base in economic importance to Aurora as a new Veterans Administration hospital opens, and both the University of Colorado and Children’s hospitals build major expansions.

Hinson senses the openness by military and spy agency officials, however slight, was meant to strengthen its public support as the recession crimps budgets in Washington, D.C.

“I think they just recognized that they’ve got to be more open about it to get more support,” Hinson said.

http://www.denverpost.com/business/ci_14474407

Raytheon lands \$887 million Air Force contract

By Ann Schrader

The Denver Post

Posted: 02/26/2010 01:00:00 AM MST

Raytheon Co. has been awarded a U.S. Air Force GPS-related contract worth about \$886.5 million — a contract officials say will mean more than 300 new high-paying jobs in Colorado.

The six-year contract, announced Thursday, is to modernize ground- control support for the nation's current and future Global Positioning System satellites.

[deletia]

For Raytheon, the contract means adding about 100 new employees this year to its 2,200-employee Aurora campus, where work focuses primarily on software development. Another 200 workers will be phased in next year.

Boeing Co., which is on Raytheon's team that has been pursuing the contract, also could add 50 to 60 jobs at its Aurora facility.

Teams led by Raytheon and Northrop Grumman have been competing for the contract, which involves GPS command and control of satellites and mission support.

Although Northrop Grumman also has operations in the state, the win by Raytheon means more jobs will come to Colorado than would have under Northrop Grumman's plan.

[deletia]

Boeing has about 300 employees in Aurora, and Raytheon is the eastern suburb's largest employer.

[deletia]

Tom Clark, executive vice president of the Metro Denver Economic Development Corp., said he knew the contract was in play. "But my word," he said, "after seeing a little dip in aerospace employment, this is welcome, welcome news."

Clark credited the award on the clustering of all the major defense and aerospace contractors in Colorado. "They end up partnering when they are all in one place," he said.

Colorado has slipped to No. 3 in aerospace employment, losing the No. 2 spot to Texas last year. Nearly 50,000 people work in aerospace in Colorado, with about 20,000 employed by private firms and another 28,000 in the military.

[deletia]

<http://www.buckley.af.mil/news/story.asp?id=123161482>



BUCKLEY AIR FORCE BASE, Colo. -- Standing at attention during the Aerospace Data Facility - Colorado assumption of command are (from left to right) Maj. Gen. Ellen Pawlikowski, National Reconnaissance Office Air Force Space Command Element commander, Senior Master Sgt. William Couret, ADF-C, and Col. Stephen Denker, the incoming ADF-C commander. (U.S. Air Force photo)

Colonel Stephen Denker assumes command of Aerospace Data Facility-Colorado

Posted 7/31/2009 Updated 7/31/2009

by Sharlene Fairbanks-Kyte

Aerospace Data Facility-Colorado Public Affairs

7/31/2009 - BUCKLEY AIR FORCE BASE, Colo. -- Col. Stephen Denker assumed command of the Aerospace Data Facility-Colorado July 15. Maj. Gen. Ellen Pawlikowski, National Reconnaissance Office Air Force Space Command Element commander, presided over the ceremony.

Colonel Denker brings a wealth of experience to ADF-C. He is an accomplished leader and military officer who has held command at the Combined Test Force and Space Operations Group levels. In his previous assignment, he served as the commander of the Air Force Element and the chief of mission engineering at Royal Air Force Menwith Hill in the United Kingdom.

Prior to his assignment at Menwith Hill, Colonel Denker served in several spacecraft engineering, test and evaluation, operations, and acquisitions positions. These assignments included positions as the deputy director of ADF-C's Mission Operations Group and as the director of ADF-C's Engineering and Support Group.

Colonel Denker looks forward to continuing ADF-C's reputation for collaborative leadership and enhancing support to the intelligence community and especially deployed warfighters around the world.

Colonel Denker's predecessor, Col. David Thompson, relinquished command May 21 before deploying to become the Director of Space Forces for United States Central Command.

<http://www.techbastard.com/afb/co/buckley.php>

May 1969: Construction begins on the Aerospace Data Facility

<http://www.losangeles.af.mil/SMC/HO/af%20org%20exc%20awards%20and%20a...>

Air Force Organizational Excellence Awards and Air Force Outstanding Unit Awards to Headquarters Elements of SMC and Its Predecessors

[Abbreviations: AFMCSO = Air Force Materiel Command Special Order; AFSCSO = Air Force Systems Command Special Order; AFSPCSO = Air Force Space Command Special Order; DAFSO = Department of the Air Force Special Order; PO = Program Office; SPO = System Program Office]

Aerospace Data Facility (Space and Missile Systems Organization, Detachment 3) Air Force Organizational Excellence Award (DAFSO GB-410, 1973) for the period 1 July 1971 - 30 June 1972

Aerospace Data Facility (Space Division, Detachment 3) Air Force Organizational Excellence Award (DAFSO GB-060, 1981) for the period 1 January 1977 - 19 January 1981

Accession Number : ADA413181

Title : Environmental Impact Analysis Process. Environmental Assessment Additions to and Operations of Aerospace Data Facility
Corporate Author : SPACE AND MISSILE SYSTEMS CENTER LOS ANGELES AFB CA

Handle / proxy Url : <http://handle.dtic.mil/100.2/ADA413181>
Check NTIS Availability...

Report Date : NOV 1992

Pagination or Media Count : 87

Abstract : The United States Air Force (USAF) operates the Aerospace Data Facility (ADF) at Buckley Air National Guard Base (ANGB), located in Aurora, Colorado. USAF proposes to modify the ADF to provide additional secure, permanent office and computer operations space.

Modification is needed to provide response capability to USAF directives requiring the expansion of ADF's mission and to provide permanent work space for staff currently located in temporary trailers. ADF is a space tracking and data processing center completely contained within the perimeter fence of Buckley ANGB and located approximately 12 miles east of Denver, Colorado. Main features of the ADF include an operations building (Building 401), radomes housing receiving antennae, a chiller plant, a power plant housing emergency power diesel generators, temporary office trailers, warehouses and other storage facilities, and a recreation complex. USAF is proposing to add approximately 150,000 square feet to Building 401. This expansion would provide permanent office space for approximately 500 employees, currently located in trailers adjacent to Building 401, and additional computer operations space. Utility modifications proposed to support the addition include adding two 2,500- kilowatt emergency generators to the existing power plant; two 1,000-ton-capacity chillers to the existing chiller plant; tree cooling tower cells adjacent to existing cooling towers; and miscellaneous additions and modifications to integrate additions with existing facilities. Construction, scheduled to begin in late spring 1993, would last approximately 18 months. Cost for the Proposed Action has been estimated at \$40,000,000.

Descriptors : *ENVIRONMENTAL IMPACT, *AIR FORCE FACILITIES, *ENVIRONMENTAL ASSESSMENT, NATIONAL GUARD, AIR FORCE, UNITED STATES, MODIFICATION, FACILITIES, COSTS, AEROSPACE SYSTEMS, CONSTRUCTION, INFORMATION CENTERS, RESOURCES, AIRPORTS, CIVIL ENGINEERING, COLORADO, HOUSING(DWELLINGS), OFFICE BUILDINGS.

Subject Categories : LOGISTICS, MILITARY FACILITIES AND SUPPLIES
NOISE POLLUTION AND CONTROL
SOLID WASTES POLLUTION AND CONTROL
WATER POLLUTION AND CONTROL

Distribution Statement : APPROVED FOR PUBLIC RELEASE

http://www.computersiteengineering.com/experts-docs/Hank_Seader_resum...

[EXCERPT]

From 1991 to 1996, Hank Seader was the Director of Facilities Engineering at the Aerospace Data Facility in the Department of Defense. Here he directed the operation, design, and construction of a \$1.3 billion space systems facility. He also renovated and built a 750,000 square foot campus with over 400,000 feet of raised floor, 25-megawatt power plant, 15-megawatt uninterruptible power system, 8000 tons cooling. During this period, Mr. Seader created a 5-year acquisition strategy and a 10-year facility and infrastructure operations plan. Additionally, Mr. Seader executed a five year \$104 million construction and redevelopment program while managing \$12 million annually in engineering and maintenance contracts. He was responsible for 120 managers, professional engineering staff, technicians and craftsmen. He also implemented industrial safety, regulatory compliance, community "right to know" programs and managed competition and selection of support contractors and strategic suppliers.

<http://www.ludvik.com/jobs/past/buckleyang.html>

Aerospace Data Facility Buckley Air National Guard
Aurora, Colorado

Description of Work:

The 5KV service originates at the existing utility plant and feeds six (6) 5KV double ended unit substations. The 100,000 SF secured area includes an intense RFI grounding system which consists of a continuous silver solder 4-inch by 4-inch copper mesh mat. Other electrical systems within the facility include public address, emergency power distribution and lightning protection.

Name and Address of Owner:

Aerospace Data Facility
18500 E. 6th Avenue
Aurora CO 80011
Captain Nathan Jones
(303) 341-3474

Contract Number and Type:

Lump Sum Bid

Period of Performance:

Project Duration: 730 days
Finish Date: October 1995

References:

Army Corps of Engineers
P.O. Box 473390
Aurora, CO 80047-3390
Eric Peterson
(303) 367-0335

M.A. Mortenson
1875 Lawrence Street, Suite 600
Denver, CO 80202
Leon Nelson
(303)295-2511

Percentage of Work by Ludvik Electric Co.'s own forces:

100%

**Environmental Assessment
for the
Space Based Infrared System (SBIRS)
Mission Control Station for
Defense Support Program Consolidation**

Prepared for

**Department of the Air Force
Materiel Command
Headquarters Space and Missile Systems Center
Los Angeles Air Force Base, California
and
Armstrong Laboratory
Occupational and Environmental Health Directorate
Brooks Air Force Base, Texas**

April 1996

**Contract F41624-95-D-9018, Order 0013
Printed on Recycled Paper**

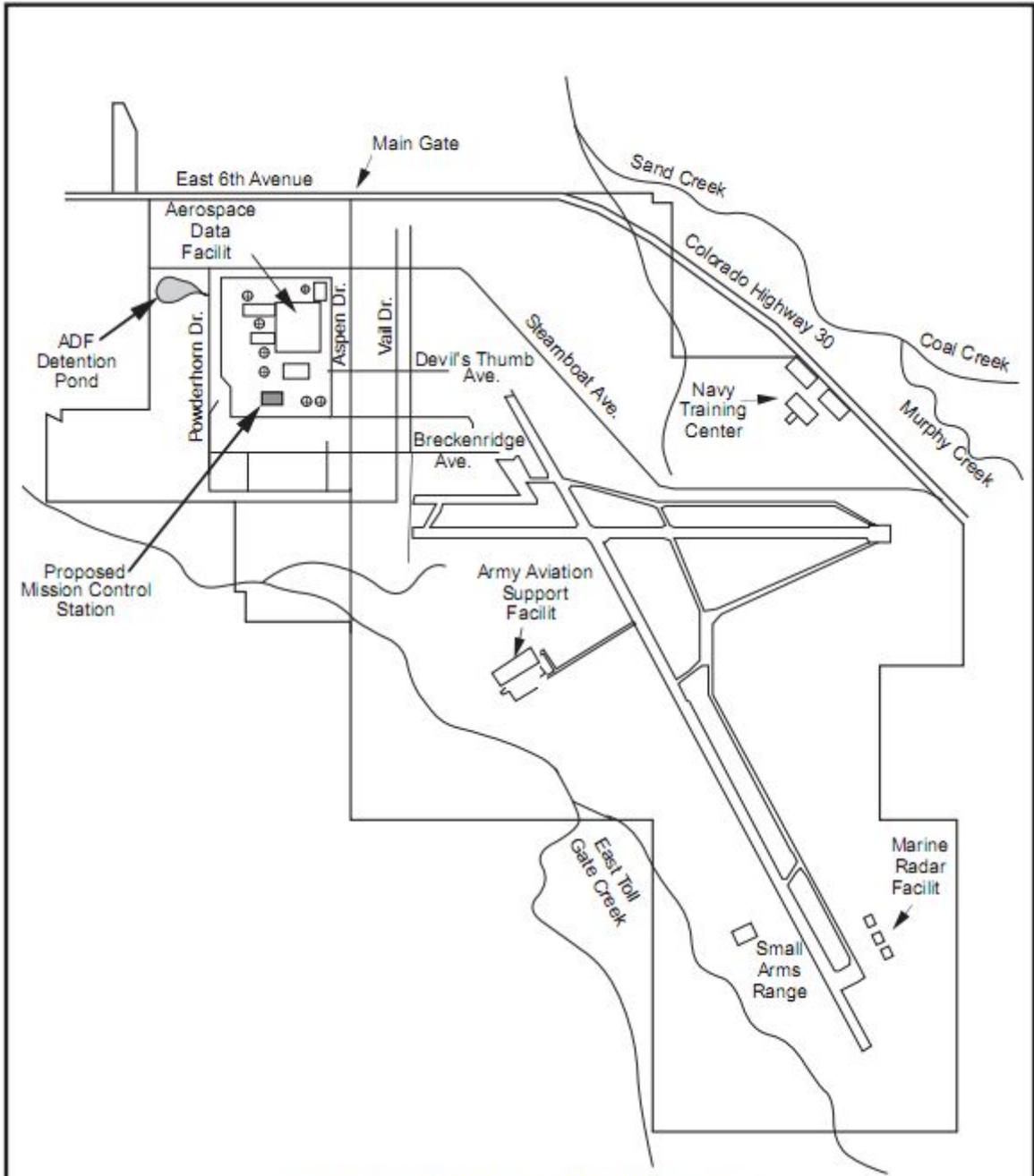
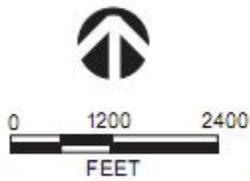


Figure 2 Proposed Mission Control Station
Buckley ANGB, Colorado



Source: Modified from Higginbotham, 1988; USAF, 1992i.

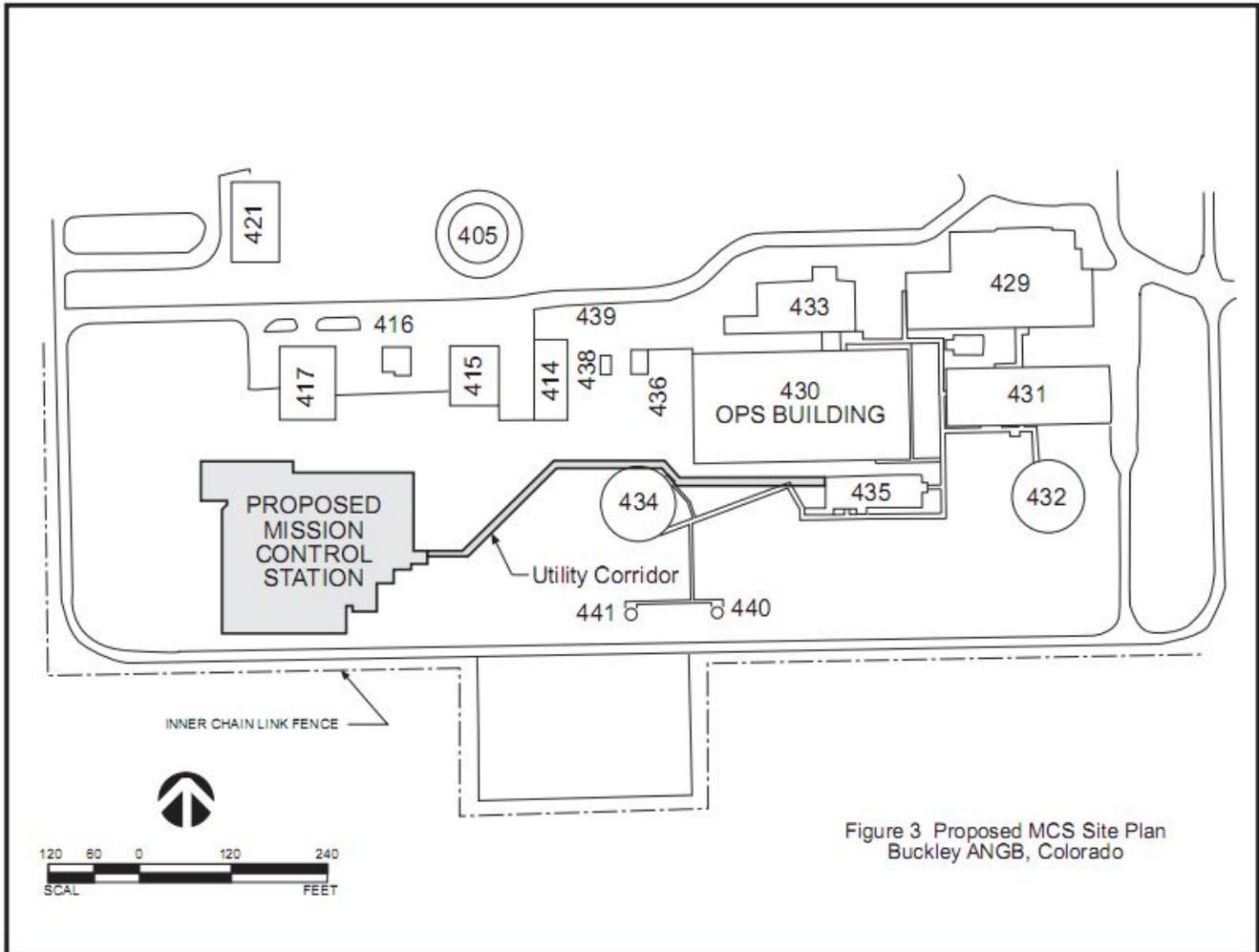


Figure 3 Proposed MCS Site Plan
Buckley ANGB, Colorado

CROP2.FH5 3/20/96

2.2.3 Operations

Operations that would be integrated by SBIRS are currently located in Building 430 inside the security fence. After construction of the MCS, the new building would be occupied by approximately 150 additional personnel in FY99 as operations are transitioned to the MCS. After six to nine months, operations in Building 430 would be shut down and the personnel requirements would return to the same level as before. Therefore, there would be no permanent increase in personnel at Buckley ANGB as a consequence of the proposed action. Existing antennas would be used for communication on an interim basis, and these antennas would be replaced in the future. The replacement antennas will be addressed in future EIAP actions when the location and operating parameters have been established.

Buckley AFB Wastewater System

Buckley AFB is located on the east side of the City of Aurora, Colorado, approximately 10 miles southwest of the Denver International Airport. Aurora is the second largest city in the Denver metropolitan area, and the third largest city in the State of Colorado. The Base is the largest single employer in the City of Aurora. In 2000 it is estimated that Buckley AFB contributed over \$500 million to the regional economies.

The 460th Air Base Wing, activated October 1, 2001, is the host unit at Buckley AFB. The airfield is operated and maintained by the 140th Wing of the Colorado Air National Guard. The 11,000-foot runway also supports transient aircraft of all commands and services. Major tenants at Buckley AFB include:

- 2nd Space Warning Squadron
- Detachment 45 Air Force Technical Applications Center
- 566th Information Operation Squadron
- Detachment 4 Air Force Operational Test and Evaluation Center
- Detachment 801 Air Force Office of Special Investigations
- Department of Defense Aerospace Data Facility
- Army 743rd Military Intelligence Battalion
- Naval Security Group Activity Denver
- Company A, Marine Support Battalion

Colorado National Guard organizations including;

- Department of Military Affairs,
- Headquarters Colorado Air National Guard,
- 140th Wing of the Colorado Air National Guard,
- 240th Civil Engineering Flight,
- United States Property and Fiscal Office,
- 169th Field Artillery Brigade,
- 1st Battalion 89th Troop Command,
- 2nd Battalion 135th Aviation,
- 101st Army Band,
- Detachment 5 Headquarters State Area Command,
- Detachment 1 1022 Medical Company,
- and 1/128 Mobile Public Affairs Detachment.

Air Force Reserve 8th Space Warning Squadron Naval and Marine Corps Reserve Center Denver
Marine Corps Reserve Air Control Squadron 23 Headquarters, Colorado Wing, Civil Air Patrol U.S.
Army Corps of Engineers Resident Office

Buckley AFB occupies approximately 3,313 acres and contains 175 buildings with approximately 2.3 million gross square feet of floor space. These include buildings used for aircraft operations, aircraft maintenance, industrial operations, administration and support services.

The Base has a total resident and non-resident population of approximately 25,358. This includes:

- 232 Active Duty Living On-Base
- 2,755 Active Duty Living Off-Base
- 1,561 Air National Guard/Air Force Reserve
- 2,171 Army/Navy/Marine Reserve
- 1,117 Appropriated and Non-Appropriated Civilians
- 1,396 Contract Employees
- 16,126 Military Dependents Living Off-Base

On October 1, 2001 Buckley AFB was converted from an Air National Guard Base to an active-duty Base. This brings about the need for significant construction. The Base has already completed considerable construction over the past several years, including a dormitory, a commissary and base exchange complex, and numerous infrastructure improvements. This will be followed by significant additional construction over the next five years.

During the past two years Buckley completed the construction of Phase II of the Installation Infrastructure Project. This project included upgrading the main utility lines (water, sanitary sewer, electrical, gas, and storm water drainage) on the Installation, along with some road widening and realignment work. Future plans also include a third phase to this project which includes improvements to side streets and secondary utility lines. Phase III is scheduled to begin in FY 2003.

[deletia]

www.dtic.mil/ndia/2002interop/gortler.pdf
[Selected slides]

Headquarters U.S. Air Force

Integrity - Service - Excellence

USAF Intelligence, Surveillance, Reconnaissance, and Net-Centric War: *Tightening the Kill Chain*



U.S. AIR FORCE

National Defense Industrial Association

Lt Col Fred W. Gortler III
HQ USAF XO1

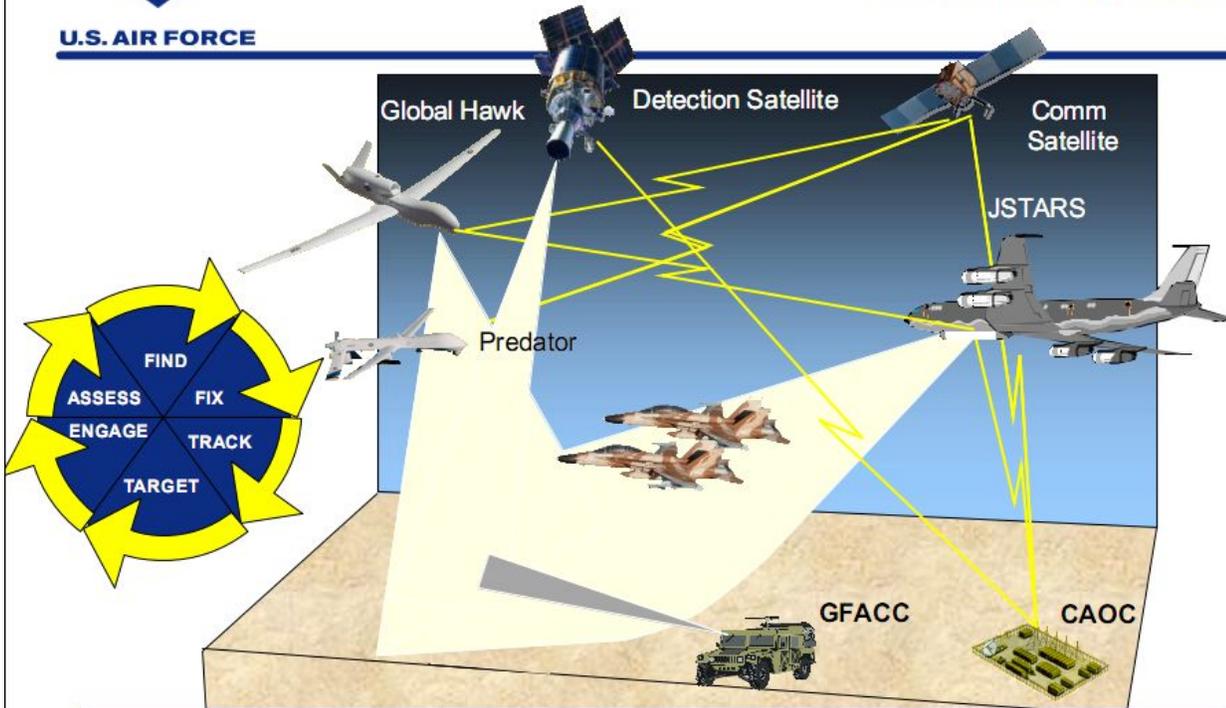
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U.S. AIR FORCE

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The Kill Chain



ISR Synchronization begins with Predictive Battlespace Awareness merging National, Theater, and Tactical ISR for Warfighting

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Predictive Battlespace Awareness

U.S. AIR FORCE

Target Systems Analysis

Target Analysis

Systems Analysis

Mission Analysis

Database Validation

Intel Prep of the Battlespace

Priority Intel Requirements

Centers of Gravity

Named Areas of Interest

Adversary COAs

ISR Strategy and Planning

ISR strategy

Integrated ISR Plan

Synchronized Collection to Requirements

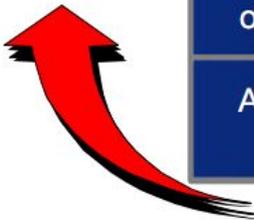
ISR Employment

C2 of ISR

Horizontal / Vertical Integration

Target Acquisition

TPEDS



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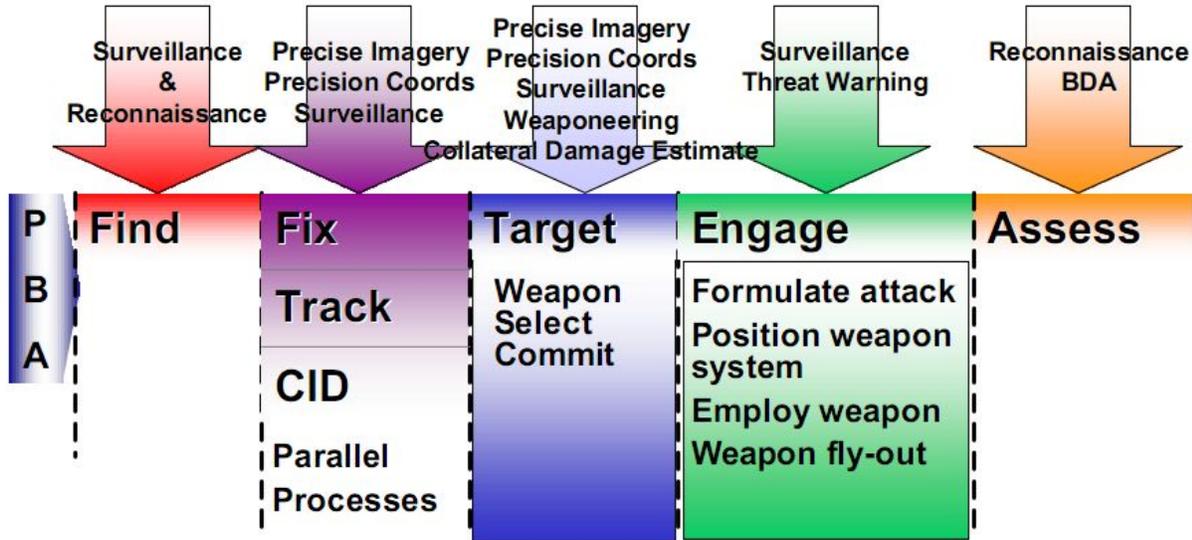
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ISR in F2T2EA

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All Targeting Begins and Ends with ISR

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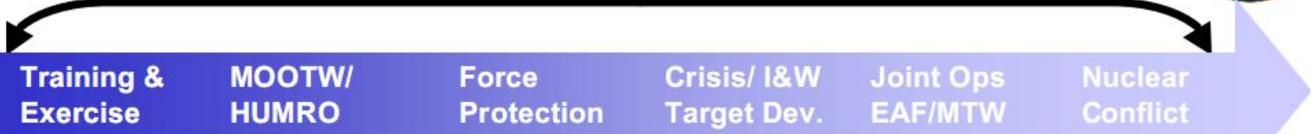


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AF DCGS

Sources & Missions



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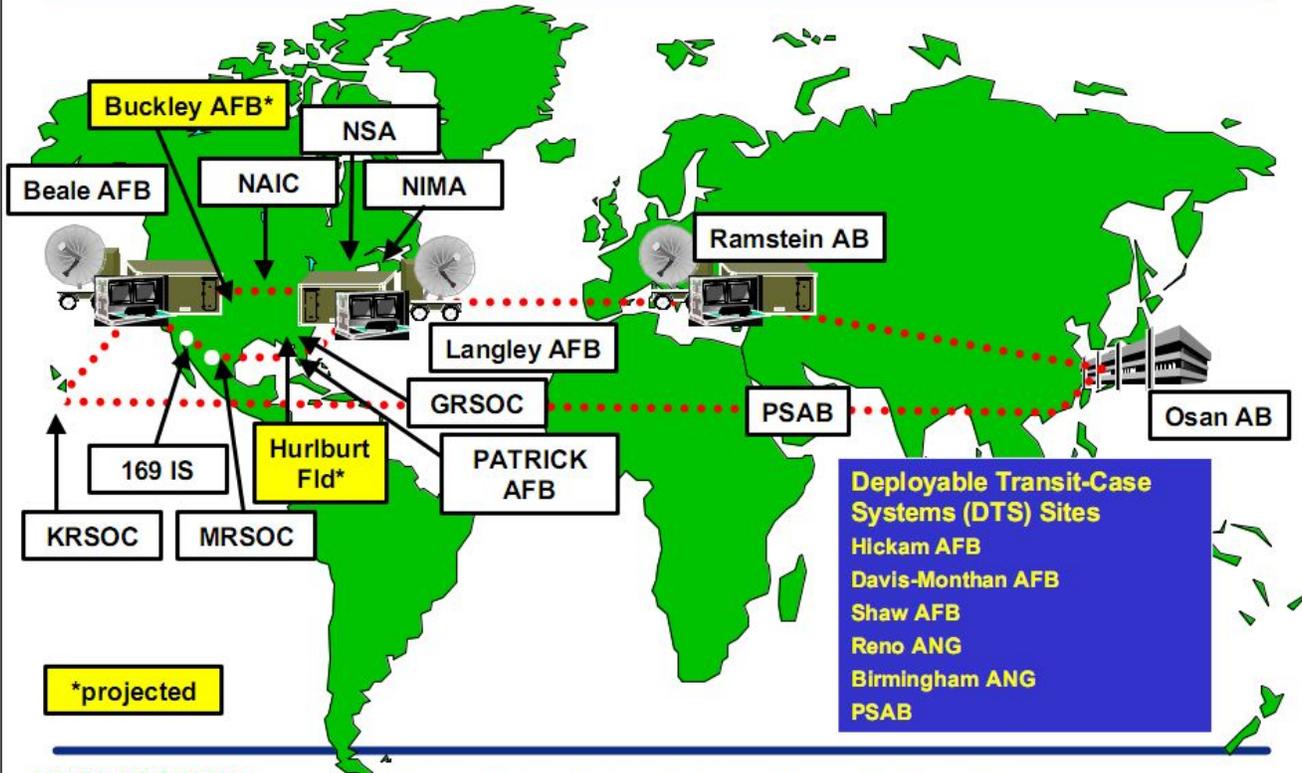
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DCGS End State Structure ...still a work in progress



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Transforming ISR

- Horizontally and vertically integrated C2ISR constellation
- Automation and analysis tools
- Continuously updated air and ground picture
- C2 of ISR
- Web-based data access
- Complete Distributed Common Ground System (DCGS) network
- Multi-level security
- Data collection, validation, and database management
- PBA ops and displays
- Automated ISR planning and execution tools

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Solicitation Number: W9128F-05-R-0025
Restrictions: Full and Open Competition
Title: Operations Building Expansion, AE Design, Solicitation packages will NOT be issued
Location: Buckley Air Force Base, Aurora, Colorado
Issue Date: 6/10/2005
Closing Date: Canceled
Price Range:
Media: Web
Contracting POC: Sharon Spohn Phone: 402-221-4102
Synopsis
Project Title: Operations Building Expansion, Buckley Air Force Base, Aurora, Colorado.
Contracting Office Address: U.S. Army Corps of Engineers, Omaha, 106 South 15th Street, Omaha, NE 68102-1618.

[EXCERPTS]

Description:

This project will be completed with a single FY07 appropriation of approximately \$50-75M with an anticipated scope of 189,000 square feet.

2. PROJECT INFORMATION: This project will be located in the Aerospace Data Facility Compound at Buckley AFB, CO. The project includes computer operations centers on raised floors, sensitive compartmented information facility areas, soundproof rooms, special purpose areas, administrative offices, loading dock, mail receiving and distribution center, storage space, an integral full-service cafeteria and banquet facility, a conference center, and communications, mechanical, and electrical support rooms for high-reliability utility support. Other features are intrusion detection systems, fire protection and alarm systems, connection to an existing communications backbone, and connection to an existing utility infrastructure and energy monitoring and control system. Supporting facilities include all associated utilities, parking areas, walks, storm drainage, communications duct banks, and other site improvements. All required antiterrorism and force protection measures will be provided and may include structural hardening. The design team shall incorporate the Leadership in Energy and Environmental Design Green Building criteria to the maximum practical extent. All design work will be performed in compliance with the Department of Defense Unified Facilities Criteria documents. Construction cost estimates will be prepared using the US Army Corps of Engineers' Computer Aided Cost Estimating System, software provided by Government. Access for the handicapped will be provided. Comprehensive Interior Design services are required. Specifications will be produced in SPECSINTACT using Unified Facilities Guide Specifications. Design review comments and their responses will be performed on US Army Corps of Engineers Review Management System ProjNet/Dr-Checks.

3. SELECTION CRITERIA: The selection criteria are listed below in descending order of importance, first by major criterion and then by each sub-criterion. Criteria a-f are primary. Criteria g and h are secondary and will only be used as tiebreakers between technically equal firms.

a. Understanding of the mission, operations, and organizations comprising the Aerospace Data Facility and the interfaces these organizations have with external organizations. Ability to conduct discussions with key personnel in a Secret/Secure Compartmented Information environment. Ability to store and transmit drawings and e-mail correspondence on a secure network acceptable to the ADF is a plus. SF 330, Part I, Section H, Item 1.

b. Specialized experience and technical competence of the firm and consultants in the following areas. Only experience that has occurred in the last five years should be included in the proposal. All projects cited shall identify design start/complete dates as well as the project size, cost and scope. Specialized experience and technical competence with the current host of the Aerospace Data Facility will be considered more favorably.

SF 330, Part I, Section F.

1. Experience in the design of sensitive compartmented information facilities.
 2. Experience in the design of innovative and architecturally complex computer facilities with requirements for highly reliable, redundant utility systems of a size equivalent to this facility.
 3. Experience with the design and integration of extensive, robust, internal communication networks into building systems architecture.
 4. Experience in the design of facilities with highly complex and innovative audio-visual and graphic display components integrated to support intelligence mission execution.
 5. Familiarity with, and experience implementing, the DoD UFC Documentation.
 6. Familiarity with Department of Defense anti-terrorism/force protection design criteria and construction standards.
 7. Experience with Life Safety and fire protection design of computer facilities.
 8. Experience with Sustainable Design or Green Building design concepts including energy efficiency, use of recovered materials, waste reduction, and pollution prevention using the LEED evaluation and certification methodology.
 9. Knowledge of the locality of the project including geologic features, environmental conditions, climatic conditions, local construction methods, and obtaining permits.
- c. Past performance on DOD and Intelligence Community IC contracts with respect to quality of work, cost control maintaining the project construction cost below the Programmed Amount, and compliance with performance schedules. In addition to past performance with Intelligence Community contracts, past performance on similar DoD contracts will be considered. Will be evaluated from ACASS information obtained by the Omaha District Office.
- d. Professional personnel qualifications and specialized experience in facilities similar to the Operations Building Expansion for key design disciplines. Key disciplines that are required to be

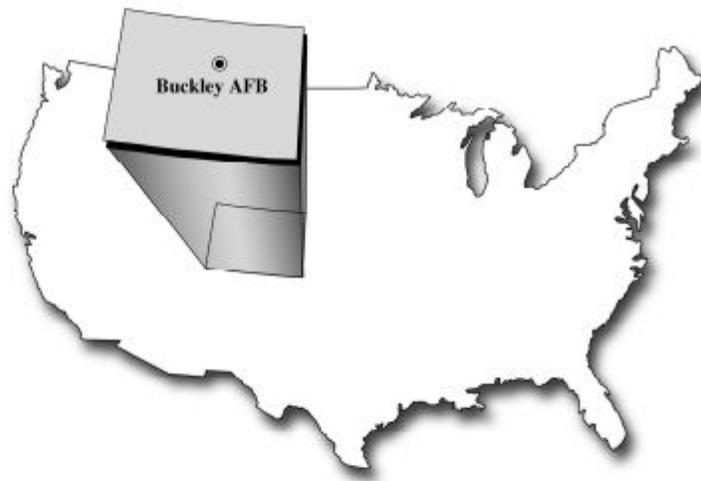
performed by registered and licensed professionals are: project management, SCIF facility planning, architecture, interior design, landscape architecture, mechanical, electrical, fire protection, structural, civil, environmental, water and wastewater, communications engineering, security, force protection, cost estimating, geotechnical, and land surveyor. Evaluation of these disciplines will consider education, training, relevant experience in design of similar facilities, and longevity with the firm. The availability of an adequate number of personnel in the key disciplines shall be presented to insure that the firm can meet the required schedule. SF 330, Part I, Sections E & G.

f. Mailing address for submission: US Army Corps of Engineers, 106 South 15th Street, Omaha, NE, 68102, ATTN: Kevin McElroy, Solicitation Number: W9128F-05-R-0025. Mr. McElroy can be reached at 402-221-4108 and via email at Kevin.P.McEl...@usace.army.mil. All technical questions should be directed to Mr. Larry Sand, 402-221-4595 or via email at larry.d.s...@usace.army.mil.

Submittals must be received no later than 1400 central time, 6 July 2005. Personal visits for the purpose of discussing this announcement will not be scheduled. Please check for updates to this announcement on our web site <http://ebs-nwo.wes.army.mil>.



DRAFT
ENVIRONMENTAL ASSESSMENT
March 2008



PROPOSED UPGRADES AT THE
6TH AVENUE, MISSISSIPPI, AND TELLURIDE
ENTRY CONTROL FACILITIES
BUCKLEY AIR FORCE BASE, COLORADO

Year: 2005

Construction Project Ground Disturbance Details (Information for Appendix B)

Project	Project Ground Disturbance Duration (days)	Maximum Building Area (ft ²)	Total Building Land Disturbance ¹ (ft ²)	Roadway/Parking Lot Land Disturbance ² (ft ²)	Landscaping Land Disturbance ³ (ft ²)	Length Sidewalk/Walkways Land Disturbance ⁴ (linear ft)	Sidewalk/Walkway Land Disturbance ⁵ (ft ²)	Length Utility Main Crosscut Land Disturbance ⁶ (linear ft)	Utility Trenching Land Disturbance ⁷ (ft ²)	Total Land Disturbance (ft ²)	Total Land Disturbance (acres)	AIP or ELLA Number
Athletic Fields	133	0	0	0	79,750	1,200	14,400	150	900	80,000	18.48	2.00
Central Mail	120	0	0	0	160,000	2,360	28,860	200	1,200	180,760	4.35	5.00
Chapel	270	26,080	156,480	135,000	5216	NA	24,900	NA	1,200	322,796	7.41	5.00
Child development center	270	24,197	145,182	121,000	4839	2,075	24,900	100	1,200	207,121	6.82	5.00
Army Aviation Support Facility	540	120,000	720,000	0	24,000	5,000	60,000	300	1,800	805,800	18.50	10.00
Highways A&K Repairs	66	0	0	750,000	0	0	0	0	0	750,000	17.22	11.00
Install Two BSH Modular Facilities	90	33,000	33,000	0	0	0	0	0	0	33,000	0.78	12.00
ANG CE Complex	270	373,510	7,700	49,200	7,670	0	0	0	0	131,370	3.02	6.00
ADAL Clinic	210	4,663	27,378	80,000	913	NA	12,000	NA	600	120,891	2.78	4.00
Child development center playground	90	0	30,713	0	0	0	0	0	0	30,713	0.71	
Visitor Center ADAL and Parking Lot	120	1,000	2,000	14,400	200	NA	12,000	0	0	26,600	0.68	2.00
Totals	2,281	346,190	1,189,453	1,149,000	912,388	10,655	176,760	750	6,900	3,515,101	80.70	

<http://www.fbcinc.com/event.asp?eventid=Q6UJ9A00AT4U>

Federal Business Council, Inc.
8975 Henkels Lane, Suite 700
Annapolis Junction, MD 20701
(800)878-2940 fax:(301)206-2950

FBC Event Description

Event: Buckley Air Force Base

Date: **November 16, 2006**

Location: Building 606

Aurora, Colorado

Exhibitor fee: \$749.00

General Information

Buckley AFB is an Air Force Space Command base. Buckley AFB defends America through its air operations, space-based missile warning capabilities, space surveillance operations, space communications operations and support functions. Buckley AFB is unique in that it supports 38 tenant units located on and off base.

This expo is hosted by the 460th Space Communications Squadron. The mission of the 460th Space Wing is to provide combatant commanders with superior global surveillance, worldwide missile warning, homeland defense and expeditionary forces.

The 460th Communications Squadron manages, operates and maintains control, communications, and information systems in support of the 460th Space Wing and tenant units at Buckley AFB.

One of the largest on-base tenants is the Aerospace Data Facility. The Aerospace Data Facility has become the major U.S.-based technical downlink for intelligence satellites operated by the military, the National Security Agency and the National Reconnaissance Office.

Another tenant, the Defense Finance and Accounting Service (DFAS), located on the Buckley Annex in Denver, Colo., is also one of the largest tenants supported by the 460th Space Wing. DFAS provides responsive, professional finance and accounting services for the people who defend America and currently supports a workforce of more than 1,400 personnel.

The Air Reserve Personnel Center (ARPC), located on the Buckley Annex, is another tenant supported by the 460 Space Wing. The center, comprised of more than 490 personnel, plays a major role in ensuring the nation always has a warrior bank of mission-ready air Guardsmen and Reservists for mobilization and United States Air Force augmentation by providing personnel management and services for its customers.

Other tenants at Buckley also include: Headquarters, Colorado Air National Guard, **566th Information Operations Squadron**, Detachment 45, Air Force Technical Applications Center, Detachment 105, AFROTC at University of Colorado, Detachment 801, Air Force Office of Special Investigations, Aerospace Data Facility, Navy Marine Corps Reserve Center, and Combined Task Force.

Requested Technologies

All technologies are applicable for this expo.

10th Annual OOC Message

SUBJ: OVERHEAD CONFERENCE 2008 MESSAGE

ATTN: SSO'S, COMMANDERS, G2/S2'S

SUBJ: OVERHEAD CONFERENCE 2008 MESSAGE

1. MISSION: THE 704TH MILITARY INTELLIGENCE BRIGADE INVITES YOU TO ATTEND THE 10TH ANNUAL OPERATION OVERHEAD CONFERENCE IN DENVER ON 28-31 JANUARY 2008. THE 743RD MILITARY INTELLIGENCE BATTALION HOSTS THIS ANNUAL EVENT AT THE AEROSPACE DATA FACILITY (ADF) LOCATED ON BUCKLEY AFB, COLORADO. THE CONFERENCE WILL PROVIDE MI COMMANDERS, TECHNICAL ADVISORS, CORPS G2S, DIVISION G2S, ACE CHIEFS, BRIGADE COMBAT TEAM (BCT) S2S, AND THOSE INVOLVED IN THE OVERHEAD REQUIREMENTS PROCESS A BETTER UNDERSTANDING OF NATIONAL OVERHEAD CAPABILITIES. IN PARTICULAR, WE WISH TO ENCOURAGE RECENTLY REDEPLOYED OR PERPEARING TO DEPLOY MICO, BCT, S2/G2, MNF-I, AND CJTF-76 PERSONNEL TO ATTEND AND SHARE THEIR EXPERIENCES WITH AND LEARN FROM THIS COMMUNITY.

2. PURPOSE: TO EDUCATE AND INFORM GROUND COMPONENT LEADERS ON THE EXPANDED OPERATIONAL CAPABILITIES AND HOW TO BETTER LEVERAGE OUR NATIONAL SYSTEMS TO ANSWER COMMANDERS PIR. MANY OF YOU REMAIN FULLY ENGAGED WITH CURRENT OPERATIONS AROUND THE WORLD. HOWEVER, NOW MORETHAN EVER, IT IS IMPERATIVE TO FULLY UNDERSTAND HOW OUR NATIONAL SYSTEMS ARE ABLE TO SUPPORT Y OUR EFFORTS.

3. TASK: THE CONFERENCE WILL PROVIDE A FORUM FOR THE NATIONAL OVERHEAD COMMUNITY AND THE TACTICAL COMMUNITY (BCT'S, DIVISIONS, AND CORPS) TO EXCHANGE EXPERIENCES, TACTICS, TECHNIQUES, AND PROCEDURES WITH REGARD TO THE USEFULNESS OF NATIONAL OVERHEAD CAPABILITIES. YOU WILL BE BRIEFED ON HOW OUR NATIONAL ASSETS CAPTURE, PROCESS, ANALYZE AND FORWARD INFORMATION FOR EARLY WARNING AND SITUATIONAL AWARENESS. YOU WILL ALSO LEARN HOW TO PROCESS AND INCORPORATE THIS INFORMATION TO HELP IMPROVE SUPPORT TO THE TACTICAL COMMANDER FOR THE TARGETING PROCESS. WE ALSO ARE LOOKING FORWARD TO AN OPEN FORUM/DISCUSSION OF REQUIREMENTS AND YOUR PERSPECTIVES TO ENSURE WE ARE MEETING YOUR NEEDS.

4. THE THEME FOR THIS YEAR'S OPERATIONAL OVERHEAD CONFERENCE WILL FOCUS ON THE ROLE OF OVERHEAD IN WORLDWIDE OPERATIONS. THE CONFERENCE WILL ADDRESS OVERHEAD RELATED ACTIVITIES IN EACH OF THE COCOM'S, SEEKING

OPERATIONAL INPUT ACROSS THE NATIONAL TO TACTICAL SPECTRUM. THE CONFERENCE WILL ALSO ADDRESS KEY TRAINING ISSUES RELATED TO OVERHEAD OPERATIONS.

5. THE CONFERENCE TARGET AUDIENCE IS MI COMMANDERS, TECHNICAL ADVISORS, CORPS G2S, DIVISION G2S, ACE CHIEFS, COLLECCTION MANAGERS, BCT S2S, AND THOSE FROM ECHELONS ABOVE CORPS INVOLVED IN THE OVERHEAD REQUIREMENTS PROCESS. THESE PERSONNEL HAVE PRIORITY AS WE CAN ONLY ACCOMMODATE 185 ATTENDEES. A LIST OF CONFIRMED ATTENDEES AND THE CONFERENCE AGENDA (AS IT DEVELOPS) WILL BE MAINTAINED ON THE CONFERENCE WEBSITE.

HTTP://DENVER.IC.GOV

6. A CONFERENCE FEE OF APPROXIMATELY \$45 WILL PAY FOR CONTINENTAL BREAKFAST EVERY MORNING, LUNCH EVER AFTERNOON AS WELL AS DRINKS DURING THE LENGTH OF THE CONFERENCE.

7. CLEARANCE INFORMATION: SEND SCURITY CLEARANCE MESSAGE VIA CRITICOM OR OFFICIAL MESSAGE TRAFFIC TO SSO ADF AND SSO 743 MI BN OR SECURE FAX (303) 677-4949. **ALL ATTENDEES MUST HAVE A FINAL TS/SCI CLEARANCE.** SUBJECT LINE SHOULD READ OOC 2008 ATTENDEE VISIT CERT. JPAS ALONE IS NOT ACCEPTED BY THE SITE. POC THISTA FOR THE CONFERENCE IS SGT BRADLEY, AND SFC DACARUS, DSN: 877-3668 COMM: (303) 677-3668/ NSTS: 830-3312. PLEASE INCLUDE ALL SCI TICKETS, THIS LOCATION WILL DISREGARD ANY TICKETS NOT REQUIRED. THE 743RD MI BN SSO IS SGT RITTER DSN: 877-4915, COMM: (303) 677-4915, NSTS 830-4899.

8. IF YOUR ORGANIZATION DESIRES TO BRIEF, PLEASE NOTIFY CPT HANDLER, SFC DACARUS OR SGT BRADLEY NLT 1 DEC. WE WILL PUBLISH ADDITIONAL LOGISTICS INFORMATION IN FOLLOW-ON MESSAGES.

9. PLEASE RSVP TO CPT HANDLER, (HHOC COMMANDER), SFC ERIC DACARUS (S3 NCOIC), OR SGT JOHN BRADLEY (CONFERENCE COORDINATOR) NLT 5 JANUARY 2008. ALTERNATE RSVP POCS ARE: THE 743RD MI BN CDR, S1, XO, OR S3 (PHONE #'S AND E-MAIL ADDRESSES BELOW). IF WE CAN PROVIDE ANY ASSISTANCE, PLEASE DO NOT HESITATE TO ASK.

10. POINTS OF CONCATCT ARE AS FOLLOWS:

COMMANDER: LTC LAURA POTTER, PHONES: DSN: 847-3668/ NSTS: 830-3144, E-MAIL (UNCLASSIFIED) LAURA.POTTER@BUCKLEY.AF.MIL

S3: MAJ STEVEN CALHOUN, PHONES: DSN: 877-3668/ COMMERCIAL (303) 677-3668, E-MAIL (UNCLASSIFIED) STEVEN.CALHOUN@BUCKLEY.AF.MIL

XO: MAJ DANA RUCINSKI, PHONES: DSN: 847-6829/ COMMERCIAL (303) 677-6829, E-MAIL (UNCLASSIFIED) DANA.RUCINSKI@BUCKLEY.AF.MIL

S3 NCOIC: SFC ERIC DACARUS, PHONES: DSN: 877-3668/ NSTS: 830-3312/ STU III (303) 677-4885/ COMMERCIAL (303) 677-3668, E-MAIL (

<http://www.schriever.af.mil/news/story.asp?id=123102544>

50th Space Wing welcomes new commander

by Staff Sgt. Don Branum

50th Space Wing Public Affairs

6/12/2008 - SCHRIEVER AIR FORCE BASE, Colo. -- The former executive officer to the commander of Air Force Space Command assumed command of the 50th Space Wing here today in an official ceremony held at the DeKok Building.

Col. Cary Chun succeeds Col. Terry Djuric, who will assume command of the Holm Accession and Training Schools at Maxwell Air Force Base, Ala.

Colonel Chun has extensive space operations experience through assignments at U.S. Space Command, AFSPC, 14th Air Force, the Special Technical Operations Community, the National Reconnaissance Office and Air Forces Central. Some of his previous assignments include commander of the **Aerospace Data Facility's Space Operations Wing at Buckley AFB, Colo.**, the NRO Operations Group at Onizuka Air Force Station, Calif., and the 614th Space Operations Squadron at Vandenberg AFB, Calif.

Colonel Chun supported the president and first lady as a White House social aide in 1995. He deployed as the director of space forces in 2007 for U.S. Central Command in Southwest Asia.

Colonel Chun entered the Air Force through the Air Force Academy and received his commission May 29, 1985, with a bachelor's degree in operations research. His other degrees include a Master of Science in systems management from the University of Southern California, a Master of Science in space operations from the Air Force Institute of Technology at Wright-Patterson AFB, Ohio, and a Master of Strategic Studies degree from the Air War College at Maxwell AFB.

He is a senior executive fellow of Harvard University's John F. Kennedy School of Government. He has also attended the Leadership Development Program at the Center for Creative Leadership in Greensboro, N.C., and the Enterprise Leadership Seminar at the University of North Carolina's Kenan-Flagler School of Business.

Colonel Chun is a distinguished graduate of Squadron Officer School at Maxwell AFB and the Space Innovation and Development Center's Space Tactics School here. He was also a Top 25 Percent graduate from the Air Command and Staff College at Maxwell AFB. His professional military education also includes the Armed Forces Staff College at Norfolk Naval Air Station, Va., and Air War College at Maxwell AFB.

Colonel Chun has received a Defense Superior Service Medal, a Legion of Merit medal, three Defense Meritorious Service Medals, two Air Force Meritorious Service Medals, a Defense Commendation Medal, two Air Force Commendation Medals, a Defense Achievement Medal and an Air Force Achievement Medal.

He was named the California Air Force Association's Field Grade Officer of 2000. He received an NRO Leadership Award in 2005, an Office of the Secretary of the Air Force Leadership Award in 2006, and a National Security Agency Bronze Medallion and an NRO Gold Medal in 2007.

Colonel Chun is a native of Cavite, the Philippines. He was born at Sangley Point NAS, the Philippines, while his father was on active duty in the U.S. Coast Guard. He is married to the former Angeline Montiero and has three children: Thomas, Mackenzie and Ian.

http://www.upi.com/NewsTrack/Top_News/2008/05/05/big_buildup_at_space_base_in_colorado/8759

/

Big buildup at space base in Colorado

Published: May 5, 2008 at 1:59 PM

AURORA, Colo., May 5 (UPI) -- Space-based surveillance needs are making Buckley Air Force Base in Colorado one of the United States' fastest growing military installations, a spokesman said.

Millions of dollars in construction projects are in the works at Buckley as the U.S. Air Force transforms it from a modest base used by reservists into a full-scale active-duty base that will be a hub of satellite surveillance and missile-warning activities.

"We are one of the fastest-growing Air Force bases in the country," base spokesman John Spann told the Rocky Mountain News. "The missions here at Buckley are constantly changing."

Located in Aurora, Colo., Buckley will add about 800 military, contractor and civilian jobs in the next three years and will be the home base of three additional F-16s from the Colorado Air National Guard, Spann told the Rocky Mountain News.

Buckley is currently home to about 10,000 military personnel, including representatives of all branches of the service. It is home base to the 460th Space Wing.

<http://www.aurorasentinel.com/main.asp?SectionID=8&SubSectionID=8&ArticleID=18162>

1/16/2008 11:30:00 PM

Buckley growth moves at military pace

McGee's State of the Base address speaks to growth in population, projects

By Boyd Fletcher

The Aurora Sentinel

AURORA | As Buckley Air Force base continues to grow both in the amount of soldiers and in the scope of their role as military support around the globe, it also gives a \$1.08-billion boost to the local economy.

"We shape the way America fights its wars today, and we do it from right here in Aurora," said Col. Wayne McGee, base commander. "We are here today to say that we are proud to serve you."

Col. Wayne McGee presented the annual State of the Base address Wednesday, Jan. 16, to members of the Rotary Club of Aurora and the Aurora Chamber of Commerce at the Doubletree Hotel in Aurora.

McGee touted newly completed construction on the base as a major economic boon for Aurora.

He said roughly 1,000 people have moved into Buckley's new 351-unit, \$90-million housing development that is comprised of single family, duplex and quad-plex homes.

He said taking care of the soldiers and their families while they are on the base has been a major push for construction efforts in the past year - including a \$6.1 million childcare center, a \$1.1 million car wash facility and the \$1.4 million outdoor recreation area where soldiers can rent equipment like skis and kayaks.

McGee said the construction projects - most of which are privately contracted - brought an estimated non-military 6,149 jobs to Aurora, creating more than \$330 million in paychecks to the area.

He noted that 2008 would see several additional construction projects, including an \$11 million communications facility, a \$6 million conference center and a \$30 million, 150-unit temporary living facility for officers and soldiers who are sent to the base for an extended stay.

He said the base was working to consolidate some of the services offered by the different tenants, as well as ways to work with existing space so the base doesn't encroach into the city.

McGee also talked about the mission of Buckley as a strategic intelligence center for the military.

Tucked away in what many people know as the "Buckley Golf Balls" are 15 satellite dishes that connect with a heat-sensing Legacy satellite in space that detects "thermal activity," such as explosions and rocket launches worldwide.

McGee touted the successful Nov. 10, 2007 launch of their 23rd and final Legacy Satellite.

"It is five times faster than our previous satellites and has four times the infrared detection technology," he said. "We would never go to war without our infrared eyes in the sky."

The unit will move on to a more advanced satellite that operates at a higher orbit later this year.

<http://www.odinjobs.com/Odin/jobs.aspx?s=Nsa&jr=Project+Manager&rvn=1>

Subject Matter Expert II (2009-05-21)
ClearedConnections (Md, Annapolis Junction)

The Subject Matter Expert will provide the bridge between Mission end users of the system to be delivered and those who are architecting, engineering and/or developing the system. Support the development, review, and analysis of Mission CONOPs, CDDs, requirements, scenarios, vignettes and use cases that accurately reflect end users needs. Assist in the development, organization, and articulation of Mission expectations to support test planning and operational evaluation activities. Facilitate interactions between system user groups and system developers. Assist Mission s development of operational business rules, process, and policies that have system design and technical development implications. Maintain cognizance of all operational requirements, ensuring that the spirit of the requirements is preserved across programmatic and acquisition activities. Support information management transformation. About KEYW Corporation:KEYW is an adaptable, powerfully capable company whose members have made many important, creative contributions to science, defense, space and the intelligence community. KEYW is building a total solutions company that will be more agile than larger competitors and will focus on solving the Shard problems . KEYW s operating philosophy is to be responsive, agile, and focused on solving customers difficult problems. KEYW s core capabilities include: hardware and software development, systems engineering and integration, test and evaluation, field support, computer and network operations, information security and specialized training, collaboration and workflow, service-oriented architectures and complex event processing and data acquisitions, embedded systems and network protocols.KEYW is an Equal Opportunity Employer EOE, M/F/D/V.

Job Requirements: Required Skills: 8 years of demonstrated experience with SIGINT operations as a collector, processor, analyst or reporter of SIGINT Minimum of 5 years of demonstrated experience in the following subject areas: SIGINT Policies, Regulations, and United States Signals Intelligence Directives USSIDs Requirements Process Provide senior level support to the ELINT Modernization PMO, NSA Colorado system engineering, NSA Colorado operational elements, and CEMO. Act as communications bridge between these organizations. Requires in-depth knowledge of Global TechSIGINT operations to include TechELINT, OpELINT, PROFORMA, COMEX, EW, NSA centers, Service Production Centers, and military missions. This knowledge should include an understanding of workflow and data flow, system functionality, database use, and analytic tool use. Requires in-depth knowledge of NSA-C operations and ADF-C engineering policies and practices. Requires understanding of acquisition processes. Requires ability to develop plans of action that will focus leaders on paths to successful implementation of new systems, to include: architectures (cross agency and system level boundaries); test and evaluation (end-to-end threads); integration and sustainment; requirements documentation, including mission impacts and priorities; development of business cases; and reviewing documentation supporting modernization efforts and areas of dependency. Requires superb leadership skills to provide recommended courses of action and mentorship to junior engineers. Requires excellent oral and written skills and the ability to develop presentations and present information to large groups consisting of senior leaders and technical experts. Must be innovative and a self-starter. Must be able to think outside the box from a big-picture perspective. Familiarity with CED is a plusDegree: BS or equivalent degree, preferably in the computer related field.Clearance: Positions require a Top Secret security clearance, based on current background investigation (SBI), as well as the favorable completion of full screening polygraph. Clearance and polygraph processing will be completed by the U.S. Government.

<http://denver.bizjournals.com/denver/stories/2007/06/11/daily34.html>

DENVER BUSINESS JOURNAL

Military budget includes \$529M for Colo.
The Denver Business Journal
10:13 AM MDT Wednesday, June 13, 2007

The 2008 military spending bill includes more than a half-billion dollars for Colorado projects, Sen. Wayne Allard said Wednesday.

Allard, a Republican, said the Military Construction Appropriations subcommittee on which he sits has approved the \$529.6 million amount. The full committee will hear the funding bill on Thursday.

The spending bill includes \$61.3 million for a new Veterans Affairs hospital at Fitzsimons in Aurora. Plans call for the replacement of the VA hospital, which now sits near Ninth Avenue and Colorado Boulevard in Denver.

Other items earmarked in the budget for Colorado include \$53 million to build barracks at Fort Carson, \$15 million for upgraded academic facilities at the U.S. Air Force Academy and \$10.08 million for utility infrastructure improvements at Buckley Air Force Base.

http://www.jobcentral.org/jobs/BAE_SYSTEMS/CO/NSA_Capture_Lead/008426739/job

Title : NSA Capture Lead

Company : BAE SYSTEMS

Location : Aurora, CO 80012

Date Acquired : 10/18/2008 1:36:27 AM

Date Updated : 12/16/2008 10:32:57 PM

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The qualified candidate will join the Information Management & Processing group within Intelligence Systems business area in Denver and San Diego. The successful candidate will serve as Capture Lead for follow-on M65X-related programs, serving in a technical marketing role in the SIGINT operational and systems area. This candidate should possess some knowledge and experience in the following areas:

- Tactical and national SIGINT collection systems and payloads
- End-to-end SIGINT production cycle, including collection planning, tasking, data collection, data processing, exploitation, analysis, dissemination and intelligence reporting
- SIGINT data processing algorithms, including signal detection, formation, and geo-location
- Fusion of SIGINT, ONIR, HUMINT and IMINT data

This position requires a broad understanding of and experience with SIGINT and SIGINT sub-disciplines including Op and Tech ELINT, COMINT, COMMEXT, PROFORMA, FISINT, and SIW and applying those disciplines toward collection requirements, collection mission planning, collection management, helping translate user requirements into SIGINT tasking and collection strategies, user liaison with SIGINT and ONIR collection capabilities and SIGINT and ONIR tasking execution and reporting experience. Individual must have a broad understanding of currently relevant national mission needs and threads/scenarios (GWOT, WMD, SEAD/DEAD etc.) and in applying those to develop creative multi-int solutions. Experience with dynamic collection, collection assessment and re-tasking, execution and processing to perform time critical mission requirements.

Candidates with solid technical marketing experience will be considered without much of the SIGINT knowledge and experience outlined above.

- BS in Computer Science, engineering/technical field or equivalent years of experience
- At least 15+ years of Systems Engineering and/or industry experience
- Strong communication skills
- Be a self-starter, able to work independently, often in a multitasking role
- Significant SIGINT collection systems experience
- Active TS/SCI with full scope polygraph
- Technical marketing experience

MAJOR TENANT ORGANIZATIONS

[EXCERPTS]

Aerospace Data Facility

The Aerospace Data Facility is a DoD information processing, analysis, relay, and test facility supporting the U.S. Government and its allies. In addition, it provides an operational environment for training government and civilian personnel in the execution of their organizational mission.

566th Information Operations Squadron

The history of the 566th Information Operations Squadron (IOS) begins in the midst of World War II, when the 16th Photographic Technical Unit was activated on Nov. 5, 1944, at Charleroi, Belgium. Subordinate to the 67th Tactical Reconnaissance Group, the 16th Photographic Technical Unit was assigned at several bases throughout Europe, including Vogelsang, Limburg, and Eschwege, Germany, as well as in France. Following World War II, the unit moved to MacDill Field, Fla., where it was decommissioned on Dec. 21, 1945.

The unit remained inactive until Sept. 7, 1993, when the 16th Intelligence Squadron was activated at Buckley Air National Guard Base, Colo. The unit was re-designated the 566th Operations Support Squadron (OSS) on Oct. 1, 1995. Renamed later as the 566th Information Operations Squadron (IOS) on Aug. 1, 2000, this unit aided Buckley in its transition from an Air National Guard base to an active duty Air Force base.

The primary mission of the 566th IOS is force provider to the Aerospace Data Facility, providing leading-edge information superiority and technical support in the performance of joint national system missions.

743rd Military Intelligence Battalion

The 743rd Military Intelligence Battalion supports a multitude of DoD information processing and analysis operations. The battalion strives to be the foremost military intelligence battalion in the U. S. Army, providing leading-edge information superiority and technical support to Combatant Commands, the U.S. Government and its allies. The Battalion is comprised of three companies: Headquarters Operations, Alpha, Bravo, and one overseas detachment. The battalion has supported every U. S. contingency operation since 1989.

The unit traces its lineage back to 1954 when the Headquarters and Headquarters Detachment, Army Security Agency Troop Command, and 7200th Administrative Area Unit organized at Fort George G. Meade, Md.

On Nov. 8, 1963, the Army Security Agency Troop Command was redesignated the Army Security Agency Support Group. With the redesignation of the Army Security Agency as the U.S. Army

Intelligence and Security Command in 1977, the Army Security Agency Support Group became the Continental United States Military Intelligence Group on Nov. 1, 1977.

In March 1980, the Army redesignated the group as the 704th Military Intelligence Brigade.

On Oct. 3, 1989, the 743rd Military Intelligence Battalion was provisionally activated at Fort Meade, and the Department of the Army formally approved it in 1990 as a subordinate unit of the 704th Military Intelligence Brigade. The 743rd Military Intelligence Battalion was organized to provide improved command, control and support to the 704th Military Intelligence Brigade detachments located at other Services' and National-level sites around the world.

In July 1998, the battalion underwent major reorganization as the headquarters moved to Colorado. With the move came a marked change in mission: to support the joint activity at Buckley Air Force Base.

The unit's official page can be viewed at
http://www.carson.army.mil/UNITS/743dMIBn/743Homepage/Main_Frame.htm.

Company A, Marine Cryptologic Support Battalion

Company A's mission is to provide trained, deployable Marines to support operations at the Aerospace Data Facility. The Company maintains personnel readiness to augment Radio Battalions or other operational deployments as required.

Bravo Company, Intelligence Support Battalion, Marine Forces Reserve

Bravo Company provides task-organized detachments of intelligence personnel to augment active component elements, joint commands, and national agencies in time of crisis, contingency, and war.

Contact Information
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Buckley AFB, CO 80011
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http://www.dcmilitary.com/special_sections/sw/032408_FME/ss_143424_31964.shtml

704th Military Intelligence Brigade

The 704th Military Intelligence Brigade conducts signals intelligence, geospatial intelligence, computer network and information assurance operations in order to support Army, joint, combined, and national decision makers to shape future Army intelligence capabilities.

With the motto of “Here and Everywhere,” the 704th MI Brigade provides cutting-edge signals intelligence, computer network operations, and geospatial intelligence in a merged digital environment. The brigade also supplies direct support to tactical forces, enabling Army units by delivering world-class training, dynamically updated doctrine, materiel innovation, and tailored intelligence production.

As subject matter experts, the 704th retains a strategic partnership with the National Security Agency, along with other intelligence organizations, to inform operational and strategic decision makers in order to shape intelligence transformation.

The 704th is comprised of three subsidiary MI battalions found on Fort Meade and Buckley Air Force Base, Colo., with auxiliary elements assigned in support of Army and joint commands which include U.S. Central Command, U.S. Joint Forces Command, Army Special Operations Command and Army Forces Command.

The 741st MI Battalion, stationed at Fort Meade, conducts information superiority operations within the National Security Agency and Central Security Service.

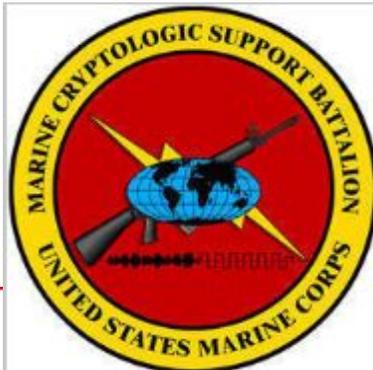
The battalion also furnishes linguist support to the NSA, the intelligence community and other U.S. government agencies in addition to operating the Joint Training Center on behalf of the U.S. Army Intelligence and Security Command, Air Intelligence Agency and Naval Security Group Command.

The 742nd Military Intelligence Battalion, also on Fort Meade, conducts continuous signals intelligence and computer network operations and directly supports information assurance operations through the NSA to satisfy national, joint, combined, and Army information superiority requirements. Additionally, the 742nd conducts contributory analysis and reporting through the Army Technical Control and Analysis Element, carrying out information operations and supporting the Trojan satellite communications system.

The 743rd Military Intelligence Battalion at Buckley Air Force Base, Colo., supports all strategic and national level operations with a high rate of success by providing technically qualified Soldiers in support of tactical commanders. Using strategic intelligence prowess to enhance the effectiveness of combat units, the 743rd deployed 28 Soldiers in 2007 in support of operations Enduring and Iraqi Freedom.

As a team of well trained professionals, the 704th continues to set the example for all military intelligence brigades by exceeding the standards in mission requirements and molding the intelligence of the future.

<http://www.nnwc-ftmeade.navy.mil/mcsb/Companies.htm>



MCSB

Letter Companies



Alpha Company

Commanding Officer
Maj David E Westin

Senior Enlisted Marine
MSgt David J Korff, Jr

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70TH INTELLIGENCE WING

The 70th Intelligence Wing with headquarters at Fort George G. Meade, Md., falls under the Air Intelligence Agency, a primary subordinate unit of Air Combat Command. The wing was activated Aug. 16, 2000, and is the primary provider of information technology to air combat forces and combatant commands. The wing is a single-source intelligence agency, combining various intelligence disciplines providing current, accurate data to air component commanders and national decision-makers.

Mission

The wing mission is to provide multi-source, multi-service intelligence products for Department of Defense by gaining and exploiting information as a major component of the Air Force and DoD global intelligence mission. The wing integrates national intelligence into tactical operations and provides air component commanders, national decision makers and warfighters of all services with tailored, timely and actionable information. The wing plans and directs integration of its components into theater and local exercise, ensuring wartime capabilities are tested and validated. It provides applications, services and resources in the areas information warfare/command and control warfare, security acquisition, foreign weapons systems and technology, and treaty monitoring. It is the executive agent for Air Force-wide intelligence roles and functions.

Organization

The 70th Intelligence Wing has a rich history dating back to when it was first established as the 70th Observation Group. Since then, it has had many mission and name changes to include being named the 70th Reconnaissance Group, 70th Tactical Reconnaissance Group, 70th Strategic Reconnaissance Wing, 70th Bombardment Wing, to name a few. The wing has six groups, 21 squadrons, 10 detachments and more than 38 operating locations on four continents throughout the world, and includes about 7,000 people. It consists of the 70th Operations Group, 70th Mission Support Group 373rd Intelligence Group, 543rd Intelligence Group, 544th Information Operations Group, and the 692nd Intelligence Group.

The 70th Operations Group, with headquarters at Fort George G. Meade, Md., conducts Air Force command-and-control warfare, electronic combat, security and information warfare operations, and systems research and development as an integral part of the National Security Agency. The group provides intelligence communications and logistics support for time-critical combat information for allied battle commanders, and U.S. unified and specified commands, and President and Secretary of Defense. Units under the group include: the 70th Operations Support Squadron, 22nd Intelligence Squadron, 29th Intelligence Squadron, 31st Intelligence Squadron, 32nd Intelligence Squadron, and the 94th Intelligence Squadron.

The 70th Mission Support Group, with headquarters at Fort George G. Meade, Md., provides operational support capability to the 70th Intelligence Wing's global cryptologic battle space in support of the National Security Agency and DoD operations. The group is responsible for wartime preparedness and combat-ready contingency support operations and develops and sustains Airmen who conduct, enable, and integrate capabilities across the spectrum of national and tactical missions in signals intelligence and information assurance. Squadrons under the group include:

70th Communications Squadron, 70th Intelligence Support Squadron, 70th Mission Support Squadron, 485th Intelligence Squadron and the 690th Alteration and Installation Squadron.

The 373rd Intelligence Group with headquarters at Misawa Air Base, Japan, provides intelligence communications support for time-critical combat information for the U.S. theater battle commanders, unified and specified commands, and the President and Secretary of Defense. It provides command direction and oversight for the 373rd Support Squadron and 301st Intelligence Squadron at Misawa and is the host unit for the multi-service Misawa Security Operations Center. The units under the group are: the 373rd Support Squadron, and the 301st Intelligence Squadron, both located at Misawa Air Base, Japan.

The 543rd Intelligence Group, with headquarters at Medina Annex, Lackland Air Force Base, Texas provides command direction and oversight for the group's two squadrons: the Air Force components of the National Security Agency/Central Security Service Texas and the NSA/CSS Georgia. The 543rd also serves as the host unit for the multi-service NSA/CSS Texas. The units under the group are: the 93rd Intelligence Squadron and the 543rd Support Squadron, both located at Lackland AFB, Texas.

The 692nd Intelligence Group, with headquarters at Hickam AFB, Hawaii, executes national cryptologic operations for more than 1,300 members in three units at four locations tailored to tactical, theater and national objectives as the Air Force Service Cryptologic Element within the Pacific Command area of responsibility. The 692nd is also responsible for information operations as the single staff point-of-presence for Air Intelligence Agency functions within the Asia-Pacific region. The units under the group are: the 303rd Intelligence Squadron at Osan Air Base, Korea; the 324th Intelligence Squadron at Kunia, Hawaii; and the 381st Intelligence Squadron at Elmendorf Air Force Base, Alaska.

The 544th Information Operations Group, with headquarters at Peterson AFB, Colo., directs 11 selectively manned units around the globe including three squadrons. The group is comprised of more than 750 Airmen and 1.5 billion dollars in operating equipment. Its mission is to acquire and exploit the space-related data necessary to achieve information dominance for military operations and strategic decision making. The units under the group are: the 18th Intelligence Squadron [*Various, including Osan Air Base, South Korea*], 451st Information Operations Squadron [*Menwith Hill, UK*] and the 566th Information Operations Squadron [*Buckley AFB, CO*].

(current as of July 2006)

<http://oai.dtic.mil/oai/oai?verb=getRecord&metadataPrefix=html&identifier=ADA457052>

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VOLUME I OF II

**FINAL
ENVIRONMENTAL ASSESSMENT
FOR
CAPITAL IMPROVEMENT PROJECTS**

BUCKLEY AIR FORCE BASE, COLORADO



Prepared by

Headquarters Air Force Center for Environmental Excellence
Project Execution Division

March 2006

ACRONYMS AND ABBREVIATIONS

ADF	Aerospace Data Facility
DSOC	Denver Security Operations Center

1.1 PURPOSE AND NEED

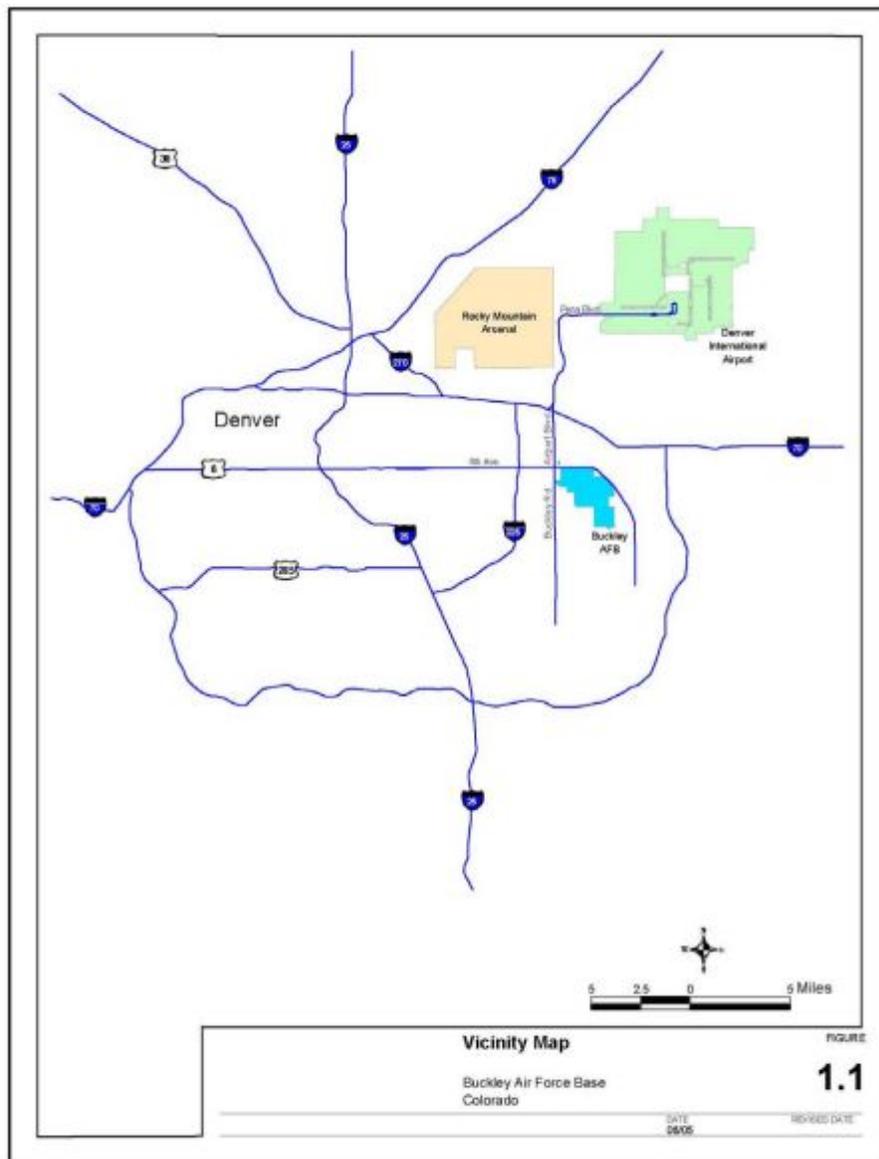
460th Space Wing (SW), the base host, and tenant organizations propose to construct a number of new facilities at Buckley AFB through fiscal year (FY) 2010. Construction projects have been proposed through the installation GP and its development component, the CIP. The purpose and need for this EA is to determine the cumulative impacts of implementing the Proposed Action and to meet the requirements and intent of the NEPA.

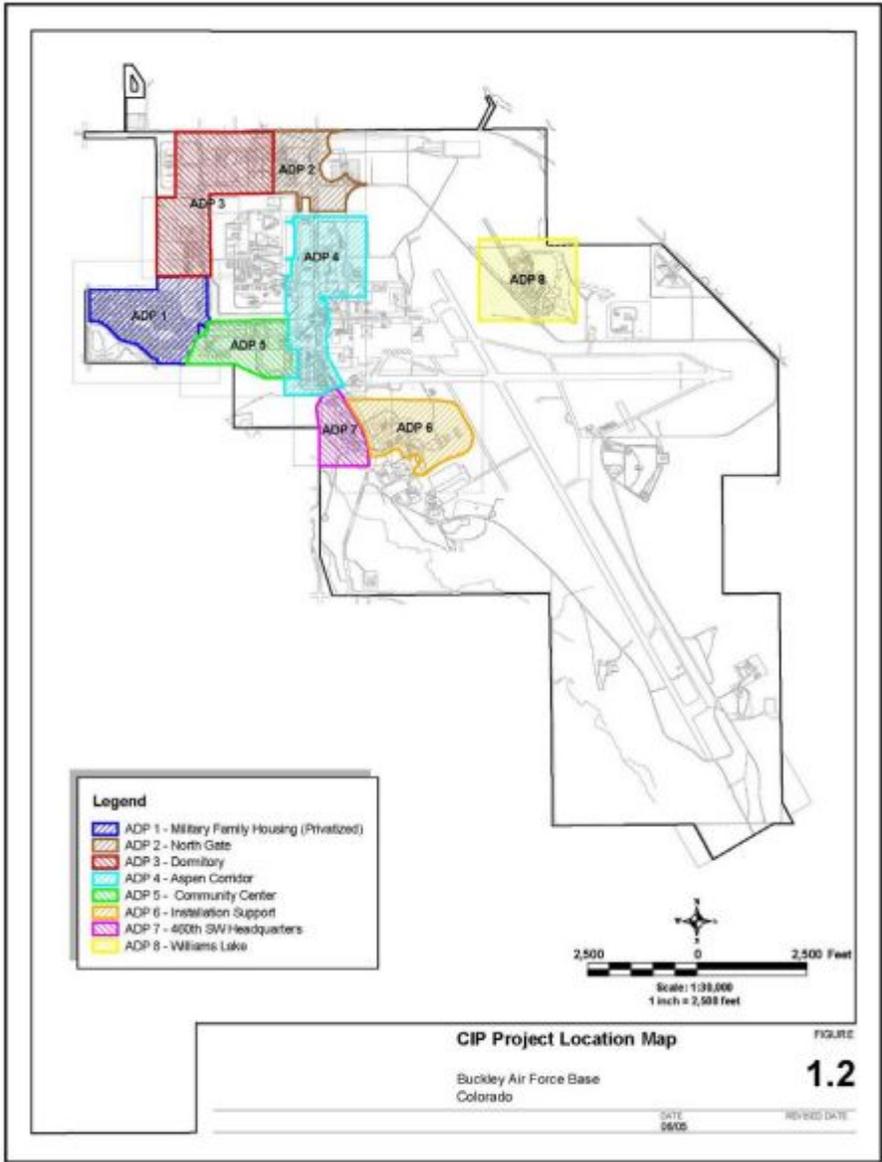
Currently, Buckley AFB installation facilities consist of approximately 193 buildings, or approximately 2.7 million gross square feet (ft²) (Buckley AFB 2005a). The facility development plan and demolition portions of the CIP identifies necessary demolitions and facility development to accommodate growth of current and planned military missions and community support requirements at Buckley AFB. Completion of the CIP projects would result in increasing facility square footage to approximately 4.8 million ft². There are approximately 110 CIP construction and demolition projects, which include new housing, dormitories, a new entrance gate, modifications to an existing entrance gate, roadway modifications and landscaping, a community center, installation support facilities, new headquarters and recreation areas are planned to meet these objectives. The majority of the projects would be concentrated within eight proposed Area Development Plans (ADP) involving approximately 640 acres of land located predominantly in the northwest half of the installation. ADPs are conceptual planning boundaries overlaid on the existing layout of Buckley AFB. The planning areas consolidate and co-locate facilities with like or compatible land uses. The goal of the ADP concept is to minimize health, safety, and security risks by segregating incompatible facilities and activities, and by placing similar facilities in close proximity to one another. This approach also optimizes organizational efficiencies, minimizes travel distances and times, and reduces associated potential exposure to hazards.

The remaining CIP projects would occur within seven Existing Land Use Areas (ELUAs) involving approximately 245 acres, including open space; aircraft operations and maintenance; airfield/aircraft pavement; mission operations and maintenance; industrial; 6th avenue; and special categories. Congruent with the realignment of Buckley Air National Guard Base (BANGB) to Buckley AFB, the purpose of the Proposed Action is to allow the 460th SW to fulfill its mission as the host at Buckley AFB and provide improvements to the quality of life for on-site, off-site, and retired personnel.

1.2 LOCATION AND DESCRIPTION OF BUCKLEY AFB

Buckley AFB is located on the northeast side of the City of Aurora in Arapahoe County, Colorado (Figure 1.1). The Proposed Action includes a total of approximately 823 acres, with approximately 640 acres of total land disturbance, within the 3,283-acre base. Figure 1.2 shows the location of the proposed ADP projects within the base boundaries.





As mentioned previously, the 460th SW is the host for Buckley AFB. The mission of the 460th SW is to provide combatant commanders with superior global surveillance, worldwide missile warning, expeditionary forces and support to homeland defense. The Military Active Duty population of Buckley AFB is 3,600 (this number does not include Buckley Annex personnel). However, the total installation population, including active duty, civilian, guard/reserve, and contractors, is 12,844 (Buckley AFB 2005a – Source 460 SW/CCX, 4 August 2005).

Buckley AFB is host to diverse missions, military services, and components. These include active-duty, National Guard and Reserve personnel from the USAF, Army, Navy, and Marine Corps to accomplish satellite support operations, fighter operations, installation support, and other important missions.

1.3 SCOPE OF THE ENVIRONMENTAL REVIEW

This EA encompasses the construction and demolition projects scheduled through FY10. The area considered within this EA totals approximately 823 acres within the boundaries of Buckley AFB. Individual ADP, ADP boundaries, and total area are provided in Table 1.1a. The ADPs are distributed throughout the northern two-thirds of the base. In addition, several of the ADPs abut the installation boundary and border directly on private or non-federal properties. Individual construction and demolition projects within each area are described in Section 2 Description of the Proposed Action and Alternatives. The General Plan, including the capital improvements projects, is dynamic and every effort has been made to include the latest information in this EA and annotations have been made where information was either not available.

Table 1.1a: Area Development Plan Boundaries and Areas		
Area Development Plan	Area Development Plan Boundaries	Total Area Development Plan Size (Acres)⁽¹⁾
7. Headquarters Area ⁽⁵⁾	Northern Boundary - Beaver Creek Street Eastern Boundary - Aspen Street Southern Boundary - Civil Engineering Complex Western Boundary - Installation Boundary/Open Space	23
8. Williams Lake	Northern Boundary - Pedestrian/Bike Trail Eastern Boundary - Pedestrian/Bike Trail Southern Boundary - Open Space Western Boundary - Steamboat Avenue	32

- (1) Total Area Development Plan Size includes structures, parking lots, sidewalks, landscaping, and open space, where the total development acreage is equivalent to the total land disturbance.
- (2) Formerly Military Family Housing
- (3) Formerly North Gate ADP. The General Plan is currently being updated to include the Mississippi Gate; therefore, the exact boundaries for the unknown at this time and not included in the figures.
- (4) Formerly Installation Support
- (5) Formerly 460th SW Headquarters

The seven ELUAs included in the Proposed Action are presented in Table 1.1b and include approximate locations. The ELUAs included in the Proposed Action are also shown on Figure 1.3.

Table 1.1b: Existing Land Use Areas and Approximate Locations	
Existing Land Use Area	Existing Land Use Area Approximate Boundaries
1. Open Space	Acreage distributed throughout the installation.
2. Aircraft Operations and Maintenance	Acreage located in the northwest and west-central portions of the Airfield.
3. Airfield/Aircraft Pavement	Acreage centered on the Buckley AFB Airfield, located in the central portion of the installation.
4. Mission Operations and Maintenance	Acreage located north of Breckenridge Avenue and south of Steamboat Avenue in the northwest portion of the installation.
5. Industrial	Acreage currently located northwest of the airfield and on the eastern side of Aspen Street, extending to the Airfield. Area will be consolidated entirely to the eastern side of Aspen Street.
6. 6 th Avenue	Acreage located along the north boundary of the installation and includes the adjacent 6 th Avenue roadway
7. Special Categories	Acreage is dispersed in five separate locations throughout the installation.

Table 2.1b: Existing Land Use Area Projects

Existing Land Use Area	Proposed Construction Year	Facility Development Projects	Development Footprint* (Acres)
4. Mission Operations and Maintenance ELUA	FY03	<ul style="list-style-type: none"> • ADAL Space-Based Infrared System (SBIRS) Mission Control; Space Operations Area 	43
	FY08	<ul style="list-style-type: none"> • Two Temporary Aerospace Data Facility (ADF) Denver Security Operations Center (DSOC) Modular Facilities 	
	FY08	<ul style="list-style-type: none"> • Permanent DSOC ADF Facility 	
	FY09	<ul style="list-style-type: none"> • Space Based Infrared (SBIRS) Operations Support Facility (demolish Buildings 429 and 431) 	
	FY10	<ul style="list-style-type: none"> • SBIRS Remote Ground Station 	
	FY12	<ul style="list-style-type: none"> • Demolish SBIRS Buildings 429 and 431 	

2.1.9.4 Mission Operations and Maintenance ELUA

The Mission Operations and Maintenance ELUA are located north of Breckenridge Avenue and south of Steamboat Avenue in the northwest portion of the installation. Although there are no plans to expand this area, as shown on Table 2.15, five construction projects are scheduled for this ELUA; the ADAL Space Based Infrared System (SBIRS) Mission Control, SBIRS

Operations Support Facility, SBIRS Remote Ground Station, placement of two DSOC temporary 33,000 ft² modular facilities; and construction of permanent DSOC replacement facilities in FY08. Buildings 429 and 431 would be demolished once the SBIRS Operations Support Facility is occupied. If the installation security fence is relocated, a portion of this ELUA could potentially be designated as Outdoor Recreation space.

The permanent facility would create the new DSOC, which would replace the temporary modular facilities with a new 200,000 ft² facility (Buckley AFB, 2004a).

Table 2.15: Mission Operations and Maintenance ELUA

Existing Land Use Area	Component Projects
Mission Operations and Maintenance (Admin)	<ul style="list-style-type: none">• ADAL SBIRS Mission Control; Space Operations Area• Two Temporary DSOC modular facilities• Permanent DSOC Facilities• SBIRS Operations Support Facility• SBIRS Remote Ground Station• Demolish buildings 429 and 431

**Table 2.21a: Environmental Assessments, Resulting In A
Finding of No Significant Impact**

*Final EA of the Proposed Denver Security Operations Center (DSOC) "Center of Excellence" Buckley AFB	Establishment and operation of DSOC.	July 2004
*Final EA of the Proposed Antenna Construction at the Existing ADF Remote Terminal Facility Buckley AFB	Construction and operation of an ADF antenna.	September 2004

<http://www.fbodaily.com/archive/2005/06-June/05-Jun-2005/FBO-00822593.htm>

FBO DAILY ISSUE OF JUNE 05, 2005 FBO #1287
SOLICITATION NOTICE

C -- **Operations Building Expansion**, Buckley Air Force Base, Colorado

Notice Date
6/3/2005

Notice Type
Solicitation Notice

NAICS
541310 — Architectural Services

Contracting Office
US Army Corps of Engineer - Omaha District, 106 S. 15th Street, Omaha, NE 68102-1618

ZIP Code
68102-1618

Solicitation Number
W9128F-05-R-0025

Response Due
7/6/2005

Archive Date
9/4/2005

Small Business Set-Aside
N/A

Description

Solicitation Number: W9128F-05-R-0025. Project Title: Operations Building Expansion, Buckley Air Force Base, Aurora, Colorado. Contracting Office Address: U.S. Army Corps of Engineers, Omaha, 106 South 15th Street, Omaha, NE 68102-1618. Description:

1. **CONTRACT INFORMATION:** Architect-Engineer services are required for a Firm Fixed Price contract for Design of the Operations Building Expansion, including charrette/concept designs, schematic designs, planning, programming, site investigations, surveying and geotechnical investigations, space planning, interior design, parametric and construction cost estimating, and other engineering services and construction phase services for the subject project. Construction phase services may include re view of contractor-prepared design documents, shop drawing and construction submittal reviews, site visits, technical assistance, commissioning support, and startup service assistance. This announcement is open to all businesses regardless of size. Final AE selection and award of the contract is anticipated in July 2005. If a large business is

selected, a subcontracting plan with the final fee proposal will be required, consistent with Section 806 b of PL 100-180, 95-907, and 99-661. The subcontracting plan is not required with this submittal. This project will be completed with a single FY07 appropriation of approximately \$50-75M with an anticipated scope of 189,000 square feet.

2. PROJECT INFORMATION: This project will be located in the Aerospace Data Facility Compound at Buckley AFB, CO. The project includes computer operations centers on raised floors, sensitive compartmented information facility areas, soundproof rooms, special purpose areas, administrative offices, loading dock, mail receiving and distribution center, storage space, an integral full-service cafeteria and banquet facility, a conference center, and communications, mechanical, and electrical support rooms for high-reliability utility support. Other features are intrusion detection systems, fire protection and alarm systems, connection to an existing communications backbone, and connection to an existing utility infrastructure and energy monitoring and control system. Supporting facilities include all associated utilities, parking areas, walks, storm drainage, communications duct banks, and other site improvements. All required antiterrorism and force protection measures will be provided and may include structural hardening. The design team shall incorporate the Leadership in Energy and Environmental Design Green Building criteria to the maximum practical extent. All design work will be performed in compliance with the Department of Defense Unified Facilities Criteria documents. Construction cost estimates will be prepared using the US Army Corps of Engineers' Computer Aided Cost Estimating System, software provided by Government. Access for the handicapped will be provided. Comprehensive Interior Design services are required. Specifications will be produced in SPECSINTACT using Unified Facilities Guide Specifications. Design review comments and their responses will be performed on US Army Corps of Engineers Review Management System ProjNet/Dr-Checks.

3. SELECTION CRITERIA: The selection criteria are listed below in descending order of importance, first by major criterion and then by each sub-criterion. Criteria a-f are primary. Criteria g and h are secondary and will only be used as tiebreakers between technically equal firms. a. Understanding of the mission, operations, and organizations comprising the Aerospace Data Facility and the interfaces these organizations have with external organizations. Ability to conduct discussions with key personnel in a Secret/Secure Compartmented Information environment. Ability to store and transmit drawings and e-mail correspondence on a secure network acceptable to the ADF is a plus. SF 330, Part I, Section H, Item 1. b. Specialized experience and technical competence of the firm and consultants in the following areas. Only experience that has occurred in the last five years should be included in the proposal. All projects cited shall identify design start/complete dates as well as the project size, cost and scope. Specialized experience and technical competence with the current host of the Aerospace Data Facility will be considered more favorably. SF 330, Part I, Section F.

1. Experience in the design of sensitive compartmented information facilities.

2. Experience in the design of innovative and architecturally complex computer facilities with requirements for highly reliable, redundant utility systems of a size equivalent to this facility. 3. Experience with the design and integration of extensive, robust, internal communication networks into building systems architecture.

4. Experience in the design of facilities with highly complex and innovative audio-visual and graphic display components integrated to support intelligence mission execution.

5. Familiarity with, and experience implementing, the DoD UFC Documentation.
6. Familiarity with Department of Defense anti-terrorism/force protection design criteria and construction standards.
7. Experience with Life Safety and fire protection design of computer facilities.
8. Experience with Sustainable Design or Green Building design concepts including energy efficiency, use of recovered materials, waste reduction, and pollution prevention using the LEED evaluation and certification methodology.
9. Knowledge of the locality of the project including geologic features, environmental conditions, climatic conditions, local construction methods, and obtaining permits. c. Past performance on DOD and Intelligence Community IC contracts with respect to quality of work, cost control maintaining the project construction cost below the Programmed Amount, and compliance with performance schedules. In addition to past performance with Intelligence Community contracts, past performance on similar DoD contracts will be considered. Will be evaluated from ACASS information obtained by the Omaha District Office. d. Professional personnel qualifications and specialized experience in facilities similar to the Operations Building Expansion for key design disciplines. Key disciplines that are required to be performed by registered and licensed professionals are: project management, SCIF facility planning, architecture, interior design, landscape architecture, mechanical, electrical, fire protection, structural, civil, environmental, water and wastewater, communications engineering, security, force protection, cost estimating, geotechnical, and land surveyor.

[deleted]

Place of Performance

Address: US Army Corps of Engineer - Omaha District 106 S. 15th Street, Omaha NE
Zip Code: 68102-1618
Country: US

DEPARTMENT OF THE AIR FORCE HQ AIR INTELLIGENCE AGENCY



AIR INTELLIGENCE AGENCY MISSION DIRECTIVE 1521

5 April 1999

Intelligence

566TH OPERATIONS SUPPORT SQUADRON

NOTICE: This publication is available digitally on the AIA WWW site at:
<http://aiaweb.aia.af.mil/products>.

OPR: HQ AIA/XRMO (MSgt Lisa M. Dillard)
Certified by: HQ AIA/XRM (Lt Col Annie M. McLeod)

Supersedes AIAMD 1521, 15 April 1997.

Distribution: Distribution F; X: HQ USAF/XPMO/XOIXX (1 each) HQ 544IG/CC (1), 566
OSS/CC(1)

1. **Mission.** The 566th Operations Support Squadron (566 OSS) is located at Buckley Air National Guard Base, Aurora, Colorado. The squadron:

1.1. Provides Air Intelligence Agency (AIA) personnel to accomplish national tasking.

1.2. Provides direct support to a multi-agency organization responsible for supporting national-level communications, data processing, and high-speed data relay. Delivers essential information to national decision makers, commanders-in-chief, tactical commanders, and other military forces worldwide. Responds to tasking on multibillion-dollar national systems and provides instruction to more than 900 multiservice personnel.

2. **Command.** The 566 OSS is a subordinate unit to the 544th Intelligence Group, subordinate to AIA, a field operating agency subordinate to the Director of Intelligence, Surveillance, and Reconnaissance (AF/XOI).

3. **Responsibilities.** The 566 OSS:

3.1. Leads, supports, and develops Air Force personnel in performance of military duties and responsibilities while teaming with site and command management to meet the site's requirements for Air Force expertise. Teams with other service components, Colorado Air National Guard, and Air Force Space Command to meet executive agent support responsibilities such as: planning, finance and budgeting, personnel management, training, site integration, operations management, and service and infrastructure support.

3.2. Acts as facility host for Service Cryptologic Elements and liaison to 821st Support Group serving in a multiservice DoD facility hosted by Air Force Space Command on a Colorado Air National Guard Base.

JAMES J. ROMANO, Colonel, USAF
Director of Plans and Requirements

<http://aia.lackland.af.mil/homepages/dp/jobs/ADF06-006.doc>

AIR INTELLIGENCE AGENCY

THIS IS AN EXCEPTED SERVICE POSITION

VACANCY ANNOUNCEMENT NUMBER: ADF06-006

POSITION TITLE, SERIES, GRADE: Maintenance Mechanic, WG-4749-10

ORGANIZATION, LOCATION AND DUTY STATION: Aerospace Data Facility (ADF) Buckley AFB CO

WHO MAY APPLY: All qualified US citizens

AREA OF CONSIDERATION: Local Commuting Area

(Note: Personal travel, moving expenses or other relocation costs incurred in accepting this position may not be authorized.)

OPENING DATE: 01 March 2006 CLOSING DATE: 14 March 2006

POINT OF CONTACT: Customer Service Desk, AIA/DPCS, 321 Hof Street, San Antonio, TX 78243-7129 at ((210) 977-2716 or DSN 969-2716.

SPECIAL REQUIREMENTS/CONDITIONS: This position has been designated for drug testing. If you are selected for this position you may be subject to urinalysis testing prior to appointment, and you will be subject to random urinalysis testing as a condition of employment. Individual selected will be subject to a Single Scope Background Investigation (SSBI) and must be able to acquire and retain a Top Secret (TS) clearance with Sensitive Compartmented Information (SCI) access in order to fully perform the duties and responsibilities of this position. Incumbent will be required to take a pre-employment and periodic counter-intelligence polygraph examination as a condition of employment. Position requires occasional temporary duty travel (TDY), utilizing any or all modes of transportation, both commercial and military. Air Force requires all employees to sign up for Direct Deposit (Sure Pay) with a Financial Organization. Applicants in receipt of an annuity based on civilian employment in the Federal Service are subject to DoD policy on Employment of Annuitants. Incumbent may be required to work unusual or rotating shifts and is subject to emergency overtime. Incumbent is subject to be recalled to duty. Incumbent may be required to work other than normal duty hours, which may include evenings, weekends, and/or holidays. Incumbent will be required to have the ability to discern colors, contrasts, and depth. Work requires the employee to drive a motor vehicle and operate assigned equipment. An appropriate, valid driver license is required for the position. Incumbent must stand on hard surfaces for extended periods and stoop, bend, kneel and work in tiring and uncomfortable positions and climb ladders carrying tools and replacement parts. Frequently lifts and carries parts and equipment that weigh up to 50 pounds. Occasionally, lifts items that weigh over 50 pounds with the help of weight handling equipment or with assistance from other workers. In addition, work involves

frequent movement and maneuvering of large, heavy equipment using hoists, holders, and pulleys as required. Incumbent typically works in well lighted, heated and ventilated areas. Incumbent will be subject to cuts burns, chemical irritations, strains, electrical shock, and abrasions while repairing and handling equipment. May be exposed to unpleasant conditions from dirt, solvents, fuel, fumes, oil and grease. Incumbent must follow prescribe safety practices and use safety equipment such as ear plugs, face shields, gloves, hard hats, glasses, and safety shoes. Incumbent must pass a physical examination.

DUTIES: Incumbent performs facilities maintenance work primarily involving air conditioning equipment mechanic, masonry, sheet metal mechanic, carpentry, plumbing, electrical equipment repairer, and locksmith assignments to maintain and repair facilities such as buildings structures, support equipment/systems, grounds, and related fixtures and utilities. Plan, lays out, installs and troubleshoots a variety of large commercial and industrial refrigeration and air conditioning systems and supporting equipment in warehouses, shops, and large office buildings. Performs masonry tasks involved in maintenance, repair, alteration and construction of interior and exterior surfaces and structures. Independently installs, modifies, troubleshoots, repair, maintains a variety of new and existing utility, supply, and disposal systems and equipment, such as a sewage, water, oil and gas distribution systems, and water closets, backflow prevention devices/assemblies, and fire sprinkler systems. Performs diagnostic, modification, overhaul, repair and maintenance of a variety of electrical devices, equipment and component in support of the organization's operation. Independently applies skilled methods, techniques and shop mathematics to construct, install, repair, and modify wood and wood substitutes to produce a wide variety of structures. Performs routine maintenance, overhaul, and repair of standard types of mechanical locking devices such as mortise, rim, key-in-the-knob, deadbolt, safes and emergency exit locks. Develops patterns, cuts, forms joints, assembles, and installs items and systems which combine straight and curved edges or irregular curves, angles, and planes. Utilizes safety practices and procedures following established safety rules and regulations and maintains a safe and clean work area.

[http://rfcafejobs.com/documents/\[REDACTED\].htm](http://rfcafejobs.com/documents/[REDACTED].htm)

Air Intelligence Agency, Denver, Colorado

Product Support Analyst (PSA)

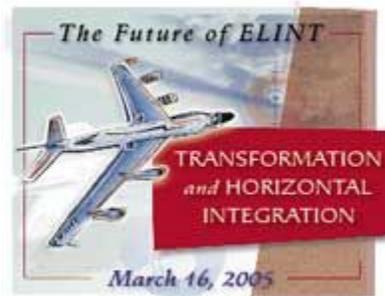
Sep 2001 to Dec 2003

National assets systems product support analyst during systems testing phase.

Duties included ELINT signals analysis, systems analysis, problem resolution, and solution execution.

Ensured system's full operational capability and functional compatibility of programs running simultaneously.

ELINT Conference



The Association of Old Crows (AOC), in cooperation with the Community ELINT Management Office (CEMO), will sponsor an **ELINT Conference on 16 March 2005** at the Northrop Grumman Facility, Annapolis Junction, Maryland. **The conference will be at the TS/SI/TK U.S. Only** classification level. The chairman of the conference will be Mr. Morrie Levine, Director, CEMO. The theme of the conference is "Future of ELINT Transformation and Horizontal Integration." The conference builds on the AOC ELINT conference hosted by CEMO in April 2003. Featured speakers include: Lt Gen Hayden, USAF, DIRNSA; Mr. Charlie Allen, Assistant Director of Central Intelligence for Collection; Lt Gen Clapper, USAF (Ret), Director, National Geospatial-Intelligence Agency; and Mr. Thomas Behling, Deputy Under Secretary of Defense for Preparations and Warning. Other speakers include: Col Kim High, USAF (Director, BIG SAFARI); **Mr. John Canavan, Chief, Denver Security Operations Center**; Ms. Marian Cherry, ASD/NII, who will address Horizontal Fusion; Lt Col Hockaday, USAF, CEMO, who will address Non-Traditional ISR (NTISR); Lt Col Greg Burns, USAF, Chief of E-Space, NSA; and LCDR Doug Harbold, USN, NRO. This conference will address one of the most critical, high priority, high interest areas within our government and the Department of Defense. It is a not-to-be-missed forum.

<http://www.navintpro.org/forumviewmessage.cfm?forumnbr=3088&topicnbr=5975&discussionnbr=11801>

18 May 2005

To: Distribution

From: Joseph M. Mazzafro

Subject: Naval – **NRO Conference 2005**: Space and Maritime Domain Awareness (MDA) --- The Sea Services' Perspective

Approximately 375 military, civil service, and contractors attended the subject conference hosted by the Navy-NRO Coordinating Group (NNCG) under the guidance of Rear Admiral (select) Vic See at the National Reconnaissance Office's (NRO) Jimmie D. Hill Conference Center on 4/5 May. **The conference was held at the Top Secret SI/TK classification level,** but what follows is an unclassified summary of this most informative conference.

[deletia]

Tom McCaffery (Deputy Director Denver Security Operations Center) observed that neither the collaboration nor the automated fusion tools are available to deal with the scale of the MDA challenge. He continued saying that analyst skill sets will need to be updated to take advantage of these tools when they become available.

http://www.vandenberg.af.mil/14af/sr_leadership/bios/hamel_bio.doc

[EXCERPTS]

MAJOR GENERAL MICHAEL A. HAMEL

Maj. Gen. Michael A. Hamel is Commander, 14th Air Force, Air Force Space Command, and Commander, Space Air Forces, U.S. Strategic Command, Vandenberg Air Force Base, Calif. The 14th Air Force, the historic "Flying Tigers," encompasses all U.S. Air Force space forces, including missile warning, space control, satellite control, space-based surveillance, navigation and communications, and spacelift and range capabilities.

ASSIGNMENTS:

1. August 1972 - July 1975, staff development planner, Space and Missile Systems Organization, Los Angeles AFB, Calif.
2. August 1975 - July 1977, missile analyst, Foreign Technology Division, Lowry AFB, Colo.
3. August 1977 - July 1979, Mission Director, Aerospace Data Facility, Buckley Air National Guard Base, Colo.

<http://www.af.mil/bios/bio.asp?bioID=7886>

BRIGADIER GENERAL WILLIAM N. MCCASLAND



Maj. Gen. William N. McCasland is Director, Space Acquisition, Office of the Under Secretary of the Air Force, Washington, D.C. He directs development and purchasing on space and missile programs to Air Force major commands, product centers and laboratories dealing with acquisition programs. His responsibilities include crafting program strategies and options for representing Air Force positions to Headquarters U.S. Air Force, the Office of the Secretary of Defense, Congress and the White House.

General McCasland was commissioned in 1979 after graduating from the U.S. Air Force Academy with a Bachelor of Science degree in astronautical engineering. He has served in a wide variety of space research, acquisition and operations roles within the Air Force and the National Reconnaissance Office. He served as Vice Commander of the Ogden Air Logistics Center at Hill Air Force Base, Utah, and commanded the Phillips site of Air Force Research Laboratory at Kirtland AFB, N.M. Prior to his current assignment, he was the Vice Commander, Space and Missile Systems Center, Los Angeles AFB, Calif.

EDUCATION

1979 Bachelor of Science degree in astronautical engineering, U.S. Air Force Academy, Colorado Springs, Colo.

1980 Master of Science degree in aeronautical engineering, Massachusetts Institute of Technology, Cambridge

1988 Doctor of Philosophy in astronautical engineering, Massachusetts Institute of Technology, Cambridge

1995 Air War College, Maxwell AFB, Ala.

1999 Advanced Program Manager's Course, Defense Systems Management College, Fort Belvoir, Va.

2004 United States-Russia Security Program, John F. Kennedy School of Government, Harvard University, Cambridge, Mass.

ASSIGNMENTS

1. September 1979 - September 1980, graduate student, Air Force Institute of Technology, Massachusetts Institute of Technology, Cambridge
2. October 1980 - March 1984, payload development engineer, Secretary of the Air Force Office of Special Projects-6, Los Angeles AFB, Calif.

[Sourcebook note: the Air Force Office of Special Projects functioned as Program A of the National Reconnaissance Office.]

3. April 1984 - June 1985, Chief, Payload Systems Division, Secretary of the Air Force Office of Special Projects-8, Los Angeles AFB, Calif.
4. July 1985 - September 1988, doctoral student, Air Force Institute of Technology, Massachusetts Institute of Technology, Cambridge
5. October 1988 - May 1992, assistant director, Systems Engineering, Secretary of the Air Force Office of Special Projects-13, Los Angeles AFB, Calif.
6. June 1992 - July 1994, Director, Mission Planning, Aerospace Data Facility, Buckley AFB, Colo.
7. August 1994 - May 1995, student, Air War College, Maxwell AFB, Ala.
8. June 1995 - August 1997, Commander, Operations Squadron, Aerospace Data Facility, Buckley AFB, Colo.
9. August 1997 - March 2000, Chief Engineer, Navstar GPS Joint Program Office, Los Angeles AFB, Calif.
10. April 2000 - September 2001, System Program Director, Space Based Laser Project Office, Los Angeles AFB, Calif.
11. October 2001- May 2004, Materiel Wing Director, Air Force Research Laboratory Space Vehicles Directorate, and Commander, Phillips Research Site, Kirtland AFB, N.M.
12. June 2004 - October 2005, Vice Commander, Ogden Air Logistics Center, Hill AFB, Utah
13. October 2005 - June 2007, Vice Commander, Space and Missile Systems Center, Los Angeles AFB, Calif.
14. June 2007 - present, Director, Space Acquisition, Office of the Under Secretary of the Air Force, Washington, D.C.

MAJOR AWARDS AND DECORATIONS

Defense Superior Service Medal
Legion of Merit with oak leaf cluster
Defense Meritorious Service Medal with two oak leaf clusters
Meritorious Service Medal with oak leaf cluster

PROFESSIONAL MEMBERSHIPS AND ASSOCIATIONS

Associate Fellow, American Institute of Aeronautics and Astronautics

EFFECTIVE DATES OF PROMOTION

Second Lieutenant May 30, 1979
First Lieutenant May 30, 1981
Captain May 30, 1983
Major March 1, 1988

Lieutenant Colonel April 1, 1991
Colonel Aug. 1, 1998
Brigadier General July 1, 2005
Major General Dec. 3, 2007

(Current as of January 2008)

<http://www.research.ku.edu/kucr/roberts/index.shtml>

Dr. James A. Roberts was named Vice Provost for Research for the University of Kansas Lawrence campus in May 2004. He simultaneously was named President of the KU Center for Research, Inc., a nonprofit corporation charged with managing research administration for the campus.

Roberts came to KU in 1990 following a successful career in industry in which he managed approximately \$100 million in national security contracts involving satellite surveillance, telecommunications, and reconnaissance signal processing. From 1987 to 1990, he was the Manager of TRW-Denver Operations, which grew to a \$40 million per year high-tech engineering organization. He came to TRW-Denver in 1983 and led the turn-around of a troubled national security project at the Aerospace Data Facility, at the time one of the world's largest computer software systems. As a result, the ADF won the U.S. government's Most Outstanding Field Station Award in 1987.

From 1969 to 1983, Roberts was with ESL Inc., a start-up company in California's Silicon Valley. After several promotions, he became Manager of the Communications and Radar Laboratory in 1980. During his tenure at ESL, he was an adjunct faculty member at Santa Clara University from 1978 to 1983. Prior to ESL, he was with RCA on Boston's Route 128, where he was an electronics engineer for the APOLLO mission to the Moon.

[EXPERIENCE]

**Access/Collection Manager
Cryptologic Services Group (CSG)
(Military industry)**

June 2007 — September 2008 (1 year 4 months)

Managed the National SIGINT Requirements Process for United States Forces Korea. Provided Collection Management expertise on national and theater collection assets to senior military and civilian personnel which led to robust reporting provided to US decision and policy makers; extensive experience with Information Needs.

**Senior Lead Reporter
National Security Agency/Central Security Service Colorado**

(Military industry)

June 2004 — June 2007 (3 years 1 month)

Analyzed and reported on worldwide events of interest, focusing on multi-mission and multi-discipline efforts. Drafted and provided quality control for thousands of time-sensitive intelligence reports providing national agencies with concise analysis of real-time events. Operationally and administratively responsible for leading, managing and mentoring a 15 employee team tasked with fulfilling strategic intelligence requirements.

**Communications Security Analyst
National Security Agency/Central Security Service Pacific (WATERCUP)
(Military industry)**

January 2004 — June 2004 (6 months)

Conducted Communications Security (COMSEC) monitoring (collection, analysis, and reporting) and operational force protection of United States government encrypted and unencrypted telecommunications, Automated Information Systems (AIS) and related non-communication signals as tasked by the Joint COMSEC Monitoring Activity Headquarters (NSA/I72). COMSEC monitoring process during Operation Enduring Freedom/Operation Iraqi Freedom saved lives of US employees by providing force protection during sensitive combat operations in theater.

**Morse Operator/Product Reporter
National Security Agency/Central Security Service Hawaii
(Security and Investigations industry)**

January 2000 — January 2004 (4 years 1 month)

Interpreted and produced time-sensitive intelligence reports for theater and national customers. Used signal analysis techniques to exploit theater signals of interest. Critical decision-making abilities led to enhanced protection of US assets in times of crisis.



RADM (S) Elizabeth Young Director
Low Earth Orbit System Program Office
National Reconnaissance Office

Rear Admiral (select) M. Elizabeth Young is the Program Manager, Low Earth Orbit System Program Office in the Signals Intelligence Directorate at the National Reconnaissance Office in Chantilly, VA and assigned to Space and Naval Warfare Systems Command Space Field Activity. She is responsible for cost, schedule, and performance of a satellite system which provides essential, actionable intelligence to ships at sea and is the engine for Maritime Domain Awareness.

Rear Admiral Young is from New Mexico and graduated in 1984 from the United States Naval Academy with a BS degree in Chemistry. Her initial tour was at the Naval Space Surveillance Systems Command, Dahlgren, VA. In 1987 she attended the Naval Postgraduate School in Monterey, California where she graduated in 1990 with MS degrees in Physics and Space Operations.

After graduation she reported to the Naval Research Laboratory in Washington, D.C. Her team developed biological warfare sensors which were deployed to the fighting forces during the first Gulf War and serve as the basis of many of today's detectors. While at the Naval Research Laboratory, she served additional duty to the Naval Space Technology Program.

In 1992 she reported as the Officer in Charge, Naval Space Command Detachment at the Defense Support System Ground Station at Buckley Air National Guard Base in Aurora, CO. During this tour she qualified as Crew Commander and was promoted to Lieutenant Commander.

In 1994 she reported to the Aerospace Data Facility at Buckley Air National Guard Base in Aurora. During this tour she developed and fielded a new ground processing upgrade at the Aerospace Data Facility and other facilities. Upon completing her tour, she attended and graduated from the Program Manager's Course at the Defense Systems Management College at Ft. Belvoir, VA.

From 1997 to 1999 she served as the Assistant Program Manager for Systems & Engineering (Class Desk) on the Naval Tactical Unmanned Air Vehicle Program at the Naval Air Systems Command in Patuxent River, MD.

In 1999 she reported to the SPAWAR Space Field Activity, National Reconnaissance Office, Chantilly, VA where she served as the Deputy Chief Systems Engineer of the Future Imagery Architecture Program in the Imagery Intelligence (IMINT) Directorate and was promoted to Commander. In 2001 she was reassigned as the Deputy Program Manager and Chief Systems Engineer of the Advanced Concepts Staff in the IMINT Directorate. During this tour she led a three-year Technology Readiness Assessment of advanced, special technologies. While in this tour she was promoted to Captain.

Her military decorations include: Defense Meritorious Service Medal with Oak Leaf Cluster, Meritorious Service Medal, Joint Commendation Medal with Oak Leaf Cluster, Naval and Marine Corps Commendation Medal, Naval Achievement Medal.

Her National Reconnaissance Office (NRO) awards include: Director's Circle, NRO Gold Medal for Distinguished Service, NRO Silver Medal for Superior Performance, IMINT Employee of the Year 2004, and NRO Employee of the Year 2005. She has been nominated for the Jimmie D. Hill National Military Intelligence Award and for the Women in Aerospace Lifetime Achievement Award.

She is also the recipient of the National Geospatial-Intelligence Agency (NGA) Director's Coin, NGA Medallion, and the Defense Intelligence Agency (DIA) Director's Award.

BRIGADIER GENERAL KATHERINE E. ROBERTS

[EXCERPTS]

Selected for reassignment as Special Assistant to the Deputy Director, National Reconnaissance Office, Office of the Under Secretary of the Air Force, Chantilly, Va.

Brig. Gen. Katherine E. Roberts is Principal Director for Forces Policy, Office of the Deputy Assistant Secretary of Defense for Forces Policy, Washington, D.C. She is responsible for policy development and recommendations for senior Department of Defense officials concerning space, missile defense, offensive and defensive strategic capabilities as part of the new triad, and warfare based on new technologies.

General Roberts entered the Air Force in 1977 through the ROTC program at Indiana University where she was a distinguished graduate. Her assignments include space operations, acquisition of space systems and staff work. She was a manned space flight engineer, the program manager of a major acquisition program, and has served on the staffs at major command and unified command headquarters, Office of the Assistant Secretary of the Air Force for Space, and the Joint Staff. She served as the Vice Director of Operations at U.S. Space Command and the Vice Director for Space Operations at the new U.S. Strategic Command for the run-up and execution of Operation Iraqi Freedom. Prior to assuming her current position, General Roberts was Commander, Command and Control, Intelligence, Surveillance and Reconnaissance Systems Wing at Hanscom Air Force Base, Mass.

ASSIGNMENTS

1. January 1977 - August 1979, orbital analyst, Space Defense Center, Cheyenne Mountain Operations Center, Colo.
2. August 1979 - January 1982, trajectory orbital research analyst and Chief, Tracking Analysis Work Center, National Security Agency, Fort George G. Meade, Md.
3. January 1982 - April 1983, Chief, Data Recorder Division, Office of Special Projects, Office of the Secretary of the Air Force, Los Angeles AFB, Calif.

[The USAF Office of Special Projects functioned as Program A of the National Reconnaissance Office]

4. May 1983 - April 1986, manned spaceflight engineer, Space Division, Air Force Systems Command, Los Angeles AFB, Calif.
5. April 1986 - October 1987, Chief, Spacecraft Integration and Flight Operations Division, Office of Special Projects, Office of the Secretary of the Air Force, Los Angeles AFB, Calif.
6. October 1987 - August 1988, Director, Spacecraft Division, Space and Missile Systems Division, Buckley Air National Guard Base, Colo.
7. September 1988 - May 1992, Deputy Director, Space Systems Integration, Office of Special Projects, Office of the Secretary of the Air Force, the Pentagon, Washington, D.C.
8. May 1992 - February 1994, Chief, Space System Division, Defense Landsat Program Office, Office of Special Projects, Office of the Secretary of the Air Force, the Pentagon, Washington, D.C.
9. February 1994 - August 1994, military assistant to the Assistant Secretary of the Air Force for Space, *[Director of the NRO]* Office of the Secretary of the Air Force, the Pentagon, Washington, D.C.

http://www.buckley.af.mil/photos/media_search.asp?q=security+agency



NCO captures National Security Agency award

Staff Sgt. Jared Hershman, 566th Information Operations Squadron, was named the **National Security Agency and Central Security** Service Military Performer of the Year for 2005.

<http://www.aia.af.mil/library/biographies/bio.asp?id=8918>

CHIEF MASTER SERGEANT MICHAEL J. STEPHENSON



Chief Master Sergeant Michael J. Stephenson is Superintendent of the Air Force Information Operations Center, Lackland Air Force Base, Texas. He provides counsel to the commander on all matters related to morale, welfare, training and effective utilization of more than 1,000 uniformed, civilian and contractor personnel performing Information Operations threat analysis, architecture and solutions, tactics development, maintenance, testing, training, and aggressor operations across the three pillars of Information Operations: Network Operations, Electronic Warfare Operations and Influence Operations. Chief Stephenson assists the Operations Center in meeting mission requirements by facilitating cooperation across two directorates, as well as the 318th Information Operations Group and the Air Force Information Operations Battlelab. He also directs force management, professional development and career enhancement activities for more than 600 uniformed personnel.

Chief Stephenson entered the Air Force in 1980 and has served in the intelligence career field, and as an acting first sergeant and noncommissioned officer in charge, Protocol Division.

Prior to assuming his current position in April 2006, he was the Superintendent, Operations Plans Division, Air Intelligence Agency, Lackland AFB.

EDUCATION

1982 NCO Preparatory Course, Fort George G. Meade, Md.

1983 Associate of Applied Science degree, interpreting and translating, Community College of the Air Force

1987 Associate of Arts degree in Soviet Studies, University of Maryland, United Kingdom
1988 Bachelor of Arts degree in Soviet Studies/Political Science, University of Maryland, United Kingdom
1988 NCO Leadership School, RAF Upwood, United Kingdom
1994 NCO Academy, Lackland AFB, Texas
1996 Postgraduate Intelligence Program, Strategic Intelligence, Joint Military Intelligence College, Wright-Patterson AFB, Ohio
2000 Senior NCO Academy, Maxwell AFB, Ala.

ASSIGNMENTS

1. October 1980 - December 1980, trainee, Basic Military Training, Lackland AFB, Texas
2. December 1980 - February 1982, student, Basic Russian Language Course, Lackland AFB, Texas
3. February 1982 - June 1982, student, Voice Cryptologic Technical Training Course, Goodfellow AFB, Texas
4. June 1982 - April 1985, voice language analyst, 6941st Electronic Security Squadron, Headquarters National Security Agency, Fort George G. Meade, Md.
5. April 1985 - October 1992, language operations supervisor, 6950th Electronic Security Group, Menwith Hill Station, Harrogate, United Kingdom
6. October 1992 - July 1996, translations supervisor and noncommissioned officer in charge, Protocol Division, National Air Intelligence Center, Wright-Patterson AFB, Ohio
7. July 1996 - July 2000, senior operations controller and operations superintendent and first sergeant, 566th Operations Support Squadron, Buckley AFB, Denver, Colo.
8. July 2000- July 2002, Superintendent, Current Operations, and Superintendent, Mission Management, 303rd Intelligence Squadron, Osan Air Base, Republic of Korea
9. July 2002 - October 2004, senior enlisted leader, National Security Agency Pacific, Camp H.M. Smith, Hawaii
10. October 2004 - June 2005, Operations Superintendent, 324th Intelligence Squadron, Kunia Regional Security Operations Center, Hawaii
11. June 2005 - April 2006, Superintendent, Operations Plans Division, Headquarters Air Intelligence Agency, Lackland AFB, Texas
12. April 2006 - Present, Superintendent, Air Force Information Operations Center, Lackland AFB, Texas
(May - Aug 2006, Operations Superintendent, 763rd Expeditionary Reconnaissance Squadron, Al Udeid Air Base, Qatar)

MAJOR AWARDS AND DECORATIONS

Defense Meritorious Service Medal with three oak leaf clusters
Meritorious Service Medal with oak leaf cluster
Air Force Commendation Medal
Joint Service Achievement Medal with oak leaf cluster
Joint Meritorious Unit Award with two oak leaf clusters
Military Outstanding Volunteer Service Medal

OTHER ACHIEVEMENTS

1988 Distinguished graduate, Noncommissioned Officer Leadership School

1994 Wright-Patterson AFB Base Noncommissioned Officer of the Year
1997 544th Intelligence Group Senior Noncommissioned Officer of the Year
2000 303rd Intelligence Squadron Senior Noncommissioned Officer of the Year

EFFECTIVE DATES OF PROMOTION

Sergeant Nov 1 1983
Staff Sergeant Jun 1 1984
Technical Sergeant Jan 1 1991
Master Sergeant Nov 1 1996
Senior Master Sergeant Mar 1 2000
Chief Master Sergeant Dec 1 2002

<http://www.calguard.ca.gov/casmr/bioTurosD.htm>



DONALD R. TUROS, JR
COLONEL
CHIEF INFORMATION OFFICER (G6),
CALIFORNIA STATE MILITARY RESERVE

LTC 'Don' Turos serves as the G6, California State Military Reserve and as the Deputy, Director J6, Joint Forces Headquarters California National Guard providing a wide range of communications and Information Technology to Guard and Reserve forces statewide.

Born in Garfield Heights, Ohio, on 2 November 1954, he graduated from San Mateo High School in San Mateo California, in June 1973. He received his Bachelor of Science Degree in Computer Science/Basic Science with a minor in Atmospheric Science from the United States Air Force Academy in June 1977. He received his Master of Science Degree in Operations Research from the AF Institute of Technology in December 1981.

He retired from active duty on 1 July 05 and on the same day accepted an appointment in the California State Military Reserve and was ordered to term State Active Duty. His Professional Military Education includes Squadron Officer School, Air Command and Staff College, Army Command and General Staff College, and Air War College; Computer Systems Staff Officer Course; and a certified Acquisition Professional by the Defense Acquisition University. He is a master Communications-Computer officer and a rated parachutist.

Commissioned 1 June 1977, he began his career at Range Group, Nellis AFB, Nevada, as a software design engineer supporting the Combat Air Force's RED FLAG exercises and other range activities at the Tactical Fighter Weapons Center. Having earned a graduate studies slot, he attended the AFIT School of Engineering, Wright-Patterson AFB, Ohio writing his thesis on Systems Reliability. He attended SOS at Maxwell AFB, Alabama.

His second assignment took him to Kelly AFB, Texas, and his first tour in Air Intelligence Agency (then Electronic Security Command). Assigned to Deputy Chief of Staff for Data Automation, he supported both the AF Electronic Warfare Center and Joint Electronic Warfare Center as the Chief of the Electronic Combat Requirements Division acquiring state-of-the-art technology. He deployed the agency's initial field unit office automation and network equipment world-wide as the Chief of the Standard Systems Requirements Division.

His initial overseas tour took him to the 690 Electronic Security Wing at Tempelhof Central Airport Berlin, Germany. He served as the first AIA, unit-level Comm-Computer Systems staff officer in the field and deployed the \$30M Tempelhof Automation System as a part of the Berlin Radar Program. His responsibility grew from a five-man software support team into a 45-man division supporting the Berlin Air Route Traffic Control Center, providing all AF record communications for Berlin, and wide-

area and local area networking the largest inventory of PCs in AIA at the time. Next, he attended the sister service Army CGSC at Fort Leavenworth, Kansas.

Overseas again at Hickam AFB, Hawaii, as the Deputy Commander for Comm-Computer Systems, 692 Intelligence Wing, AIA. His units, responsibility, and travels ranged from Australia, Thailand, the Philippines, Korea, Okinawa, and Japan to Alaska and Hawaii supporting both the National Security Agency and Pacific Air Forces. He led the consolidation of national and AF record communications resources theater-wide.

Returning stateside, he served as both senior military member of the Commander's Action Staff, Aerospace Data Facility, and Support Flight Commander, 566 Operations Support Squadron, Buckley ANG Base, Colorado. He gained national systems experience, yet planned and built base services and support for the 1400 active duty joint-service members as BRAC closed the federal military installations in the Denver region to be reborn as Buckley AFB.

Making a family decision to return to California, he volunteered as the Plans Flight Commander, 61 Comm Squadron, Space and Missile Systems Center, Los Angeles AFB, California. He managed the \$15M support contract and led the planning, programming, and deployment of leading edge, ATM networked Information Technology for the 4500 users of the numbered AF-equivalent Center; home to 6 of the top 10 AF acquisition programs valued at \$10B.

Next, he served as the Senior Air Force Advisor to the 162 Combat Comm Group, California Air National Guard, North Highlands ANG Station, California. He led a team of 6 master sergeants advising the largest Guard combat comm group in the nation with 7 squadrons located throughout the state and deploying world-wide. In addition, post the events 9-11-01, he served as the Senior Intelligence Analyst and Briefer for Homeland Security and Operation Aerosafe to the Office of the Adjutant General and Commander of the California Air National Guard.

Going remote, he served his third overseas tour on the US Forces Korea, J6 Staff and the Combined Forces Command, C6 Staff, Yongsan Army Garrison, Seoul, Republic of Korea as the J6 XO and staff director as well as the division chief for three theater level functional areas: the Joint Frequency Management Office, the Allied COMSEC Management Office, and the Information Assurance function.

Returning back to California as the 12 Air Force Special Assistant to the Commander of the 162 Combat Communications Group, California Air National Guard and assigned to Operating Location B, 612 Air Comm Squadron, 12 Air Force. He was responsible for the smooth transition of traditional ANG units assuming missions side by side with active duty organizations in the functional areas of Intelligence, Surveillance and Reconnaissance.

Promoted to LTC on 1 October 1993, his decorations include the Defense Meritorious and Meritorious Service Medals; the Air Force and Army commendation medals, the Air Force Achievement Medal, the California Medal of Merit and Commendation Medal, as well as the Bronze Order of Mercury from the US Army Signal Corps Regimental Association.

743d Military intelligence Battalion - Beyond All Boundaries

The distinctive unit insignia for the 743d MI Battalion is a silver-color metal and enamel device consisting of a medium blue oval gridlined silver delta flight symbol, enclosed in base by a black scroll inscribed with the unit motto in silver; overall, a diagonally crossed black dagger and yellow lightning flash. Oriental blue and silver gray (silver) are the traditional colors of the Military Intelligence Corps. Black and white/silver denote the day and night continuous operations conducted by elements of the unit, as well as the covert and overt nature of the battalion. The black dagger symbolizes stealth and military preparedness, as soldiers of the battalion are continually prepared for worldwide deployment with and for warfighters. The flash denotes speed and accuracy, as well as the battalion's ability to provide worldwide communications and intelligence support. The gridlined oval represents the global mission of the unit and its soldiers' widespread deployment. The delta flight symbol extending beyond the boundaries of the globe symbolizes the unit's association with space and its mission to exploit space-based assets, and underscores the unit's motto, "Beyond All Boundaries."

The 743d MI Battalion traces its lineage back to 1954 when the Headquarters and Headquarters Detachment, Detachment Army Security Agency (ASA) Troop Command, and 7200th Administrative Area Unit organized at Fort George G. Meade, Maryland. On 8 November 1963, the ASA Troop Command redesignated the Army Security Agency Support Group. With the redesignation of the ASA as the United States Army Intelligence and Security Command (INSCOM) in 1977, the ASA Support Group became the Continental United States Military Intelligence Group on 1 November 1977. In March 1980, the Army redesignated the group as the 704th MI Brigade.

On 3 October 1989, the 743d MI Battalion provisionally activated and the Department of the Army formally approved it in 1990 as a subordinate unit of the 704th MI Brigade. In July 1998, the Battalion underwent major reorganization as the Headquarters moved to Colorado. With the move came a marked change in mission.

The 743d MI Battalion's mission is to support the joint military support activity at the Buckley Air National Guard Base. They provide continuous worldwide signals and technically derived intelligence operations to satisfy national, joint, combined, and Army information superiority requirements. The Battalion has supported every contingency operation in which the United States has participated since 1989.

The unit achieved the award of two National Intelligence Meritorious Unit Citations and the National Security Agency-sponsored Travis Trophy in recognition of service sites and units making significant contributions to the national cryptologic effort. The 743d MI Battalion also earned the Cypher Wheel Award.

Field Training Exercise tests Soldiers' mettle

By Thom Williams/The Scout

FORT HUACHUCA, Ariz. (TRADOC News Service, Dec. 1, 2006) -- **The Soldiers in the 96Y Signals Intelligence Collector/Analyst** course had one obstacle standing between them and graduating from 11 weeks of Advanced Individual Training, a 72-hour Field Training Exercise that included tasks such as reacting to an enemy ambush and a grenade assault course.

The Soldiers are assigned to Company C, 344th Military Intelligence Battalion. They are nicknamed "The Coyotes" and did phase one of their AIT at the Center for Information Dominance at Corry Station in Pensacola, Fla. before attending training at Fort Huachuca.

"We have some really good stuff out here," said 1st Sgt. Ken Segraves, Company C, 344th Military Intelligence Battalion.

"We have some raids that these guys go on and we are teaching them how dismount a vehicle properly which is not into the fire, but out of the fire and how to react to an Improvised Explosive Devices."

Segraves went on to say that once they graduate, most of the Soldiers will go on to strategic assignments such as working with the National Security Agency at Buckley Air Force Base, Colo.

"Our goal is at the end of the FTX when the Soldier graduates and they leave here, if they get deployed they will be ready to do the exact same thing that they did here but better," said Staff Sgt. Eric Raymon, noncommissioned officer in charge of the FTX.

"I've been to Ranger School and the first sergeant has been with Special Forces units. We try to incorporate a lot of the training fatigue and foster a teamwork oriented environment," said 2nd Lt. Paul Lushenko, executive officer.

Lushenko said that the trainers want to teach the Soldier how to persevere and overcome hardship during the exercise.

The 344th MI Bn headquarters and two of its companies are located at Goodfellow Air Force Base near San Angelo, Texas. The battalion's other two companies are located at Pensacola, Fla. and here at Fort Huachuca.

The cadre who run the AIT joke that when people find out they belong to the 344th MI Bn they assume the unit is National Guard or Army Reserve because they are small and not very well know around Fort Huachuca.



CSM FORUM

by Command Sergeant Major Franklin A. Saunders
Command Sergeant Major
U.S. Army Intelligence Center and Fort Huachuca

Note from the 111th Military Intelligence (MI) Brigade CSM

First of all let me introduce myself, I am CSM Gerardus Wykoff coming out of the 101st Airborne Division (AASLT) where I served as the G2 SGM for about five months and then as the 2-101 Brigade Troops Battalion CSM for the last 23 months. Now that I have given you a little background on myself I would like to talk about the great things the 111th MI Brigade is doing to ensure that our MI Warriors are trained and ready to leave the training base and move out to the theaters of operation. For the first time in history we are making changes to the Program of Instruction (POI) on a monthly basis. We are working with units that are down range, getting the latest tactics, techniques, and procedures (TTPs) and trends to ensure we are training our MI Warriors to meet today's challenges. I want to break it down by battalion on how we are accomplishing this and the challenges we are facing in order to provide the field with the best trained MI Warriors.

304th MI Battalion

Within the 304th MI Battalion numerous changes have been made and continue to be made to the POIs for the Officer courses: Basic Officer Leader Course (BOLC); MI Captains Career Course (MICCC); Areas of Concentration (AOCs) 35C, 35G; G2/S2X; Warrant Officer Basic Course (WOBC) and WO Advanced Course (WOAC); Sensitive Site Exploitation, Cultural Awareness, Intelligence Support to Counterinsurgency Operations; Warrior Tasks and Battle Drills; Urban Intelligence Preparation of the Battlefield; Distributed Common Ground Station-Army (DCGS-A) training, and most noteworthy the Joint Intelligence Combat Training Center (JI-CTC). Not one course in the battalion is taught the same as the class before. Lessons learned and TTPs from the War on Terror (WOT) are incorporated during each course that effect change in the next iteration. Experienced captains and WOs attending class bring their lessons learned directly from the MI portion of the WOT battlefield and most are incorporated into the learning environment.

After reflecting on the lessons learned from Operations Enduring Freedom (OEF) and Iraqi Freedom (OIF), the U.S. Army Intelligence Center and School at Fort Huachuca identified a need to train both officers and Soldiers to perform intelligence analysis and support operations against a contemporary enemy in a tactical environment using the same equipment and resources available in Afghanistan and Iraq. The JI-CTC was initially established in the officer training battalion to train and test these requirements. Today, the JI-CTC conducts over 20 rotations per year, preparing over 2,200 Soldiers to

conduct their intelligence mission in a Joint, Interagency, Intergovernmental, and Multinational environment.

During the intense week-long exercise Soldiers are challenged to meet three training objectives, all of which support the commander's visualization and understanding of the enemy and the operational environment. The first objective is to support situational understanding by establishing and maintaining the enemy common operating picture, conducting pattern and predictive analysis, and providing intelligence assessments. The second objective is to conduct intelligence, surveillance, and reconnaissance (ISR). Students will recommend priority intelligence requirements, develop ISR overlays and matrices, and manage ISR assets and their employment. The final objective is to provide intelligence support to effects by developing a high value individual list, preparing both lethal and non-lethal target packages, and conducting combat assessments.

Ji-CTC is the culminating event for intelligence personnel trained at Fort Huachuca. The exercise replicates the Intelligence Battle Staff from the Chief of the Division Analysis and Control Element all the way down to the junior analyst at the maneuver battalion. In order to integrate Soldiers from multiple military occupational specialties (MOSs) and training conducted at multiple locations, a scenario has been developed that is based on the current situation in Iraq.

On Training Day Zero, the division ACE, brigade combat team, and supporting battalions all go through a relief in place briefing to prepare them for upcoming operations. As the students begin their Tactical Operations Center (TOC) set up, the enemy senses vulnerability due to the transition and insurgent activity increases. Students from Advanced Individual Training courses, noncommissioned officers (NCOs) from the ANCOB and BNCOB, warrant officers from WOBC, lieutenants from the BOLC, and captains from the MICCC must quickly identify and track the threat, analyze the data passed on from the unit they replaced, and then make recommendations to their leadership on what actions to take in order to protect U.S. personnel, to support the Iraqi government and the local community, and to target the insurgents. A digital operating environment links students training at Rowe Hall, Site Maverick, and Sites Uniform and Papa with Signals Intelligence (SIGINT) Soldiers training at Goodfellow Air Force Base in Texas. In addition, international officers are integrated into Ji-CTC through their participation in the Coalition TOC.

To ensure all students are well prepared intelligence specialists upon their arrival at their next duty station, the exercise at Ji-CTC is fought using the latest computer based hardware and software. The scenario incorporates over 100,000 messages from all intelligence disciplines and the availability of the DCGS-A platform provides students with multiple resources to collect, process, analyze, and disseminate intelligence information. Prior to attending Ji-CTC all students receive training on the DCGS system and its applications and are therefore expected to utilize all of their resources to keep the commander apprised of the enemy situation and able to make informed decisions.

The Ji-CTC is unique as it allows students from all ranks and intelligence specialties to work together in a (simulated) tactical environment. It provides many of them with their first taste of what to expect when they enter a battalion or brigade TOC for the first time. This capstone event will continue to evolve as new insurgent TTPs are incorporated into the scenario and Army Intelligence adapts based on lessons learned from those currently engaged with the enemy.

305th MI Battalion

The 305th MI Battalion trains our MOSs 33W (MI Systems Maintainer/Integrator), 96B (Intelligence Analyst), 96D (Imagery Analyst) and 96H (Common Ground Station Operator). Soldiers and continues to expand the courses in depth but not time. It has initiated Every Soldier is a Sensor (ES2) and Cultural Awareness training into all classes. All Soldiers receive Drivers' Training and should arrive at the new unit with a DA 348, Equipment Operator's Qualification Record. We have included in all courses Military Operations in Urbanized Terrain (MOUNT) Training, Warrior Tasks and Drills (WTD), a Convoy Live Fire Exercise (with a new range opening in May), and Combatives training. For specific MOSs we are adding new skill sets to help ensure that students are being trained in the latest systems available in the school house. We continue to request and receive some of the latest devices that are being used down range.

We are incorporating DCGS-A and a field training exercise (FTX) updated with battalion/brigade/division TOCs (currently an eight day FTX) into 96B training. For 96H we train moving target indicator forensic tools and for 96D skill level I we are adding a geospatial intelligence (GEOINT) program. On the 33W side of the house we are updating new systems training (TROJAN/PROPHET), are no longer training on outdated systems (i.e., TRQ/TLQ), and awaiting the new Critical Task List (Computer Network Operations), LANs, and Establishing Computer networks.

309th MI Battalion

For all 309th MI Battalion courses there is an increase in WTD with ES2. WTD are integrated and trained deliberately as well as integrated into daily activity to increase muscle memory. Cadre question and test Soldiers on awareness of their surroundings such as "What was different on the way to class?". The battalion is also including cultural awareness training. It is taught formally as well as integrated into the POI and the company area (foreign language word of the day). We are integrating 96Bs into the 97E (Human Intelligence Collector) FTX and JI-CTC. The training includes Convoy Live Fire Exercise (CLFX) and Advanced Rifle Marksmanship (ARM). Students from the 304th (second lieutenants) are sometimes included in CLFX.

We have added a rural block into the Source Operations Course (SOC). The block is approximately 10 days long and is designed to replicate Source Operations outside urban areas, like 95 percent of Afghanistan. We also updated the scenarios to replicate current U.S. Army Central Command (CENTCOM) operations. Due to the course classification; a location of the final phase is in Tucson. The U.S. Air Force assists us with space on Davis-Monthan Air Force Base for TOC operations.

MOS 97B (Counterintelligence Agent (CI) changes from a skill level 10 level course to a 20/30 level. The course is no longer an enlistment option but is a reenlistment option. The goal is to produce a mature agent with some "life experience." The course includes blocks on Terrorism, Cultural Awareness, Use of an Interpreter, Military Source Operations, Investigations, and Surveillance. The course is very intense so proper preparation and screening via the CI screening process is a must.

MOS 97E has changed scenarios to replicate the CENTCOM area of responsibility (AOR). We teach a skill set that is applicable everywhere, however since the current push is CENTCOM, we use that AOR as a backbone. The student ratio is reduced to allow cadre to better evaluate Soldiers and provide increased feedback. The booth iterations increased from three to nine. That means a Soldier has at least 27 hours of interrogations training prior to completing the course. We introduce all 97E10s to source

operations and they have a minimum of 18 source meets with cadre personnel. We have increased the FTX to ten days. During the FTX Soldiers replicate living on a forward operating base in the CENTCOM AOR. They are required to conduct source operations, screening, interrogations and walk-in debriefs. The NCOs in the class are given the opportunity to run their teams for MI operations as well as troop leading procedures. To facilitate this, teams are rotated through a Traffic Control Point, a Forward Collection Point, and a small populated (cadre) village. There is heavy emphasis on the Laws of War. If a student gets a 100 percent on a practical exercise (PE) such as Interrogations and violates a Law of War, the Soldier fails that PE.

344th MI Battalion

The 344th MI Battalion trains four diverse MOSs ranging from firefighters to intelligence Soldiers. This presents unique challenges when trying to ensure our graduates are both technically and tactically proficient. The goal of every member of this unit, whether they are a Drill Sergeant or instructor, is to ensure the Soldiers who graduate can be an immediate asset to their unit, regardless of whether that unit is at Buckley Air Force Base, Fort Stewart, or Fort Bragg. To achieve this goal, training throughout the battalion has to mirror the doctrine and current TTP. To accomplish this, command emphasis is placed within all levels of command to ensure all trainers are trained on the most up to date TTPs used by our units currently deployed to OEF/OIF as well as the methods used by our adversaries.

The battalion accomplishes this through the use of one of its most important resources—our combat veterans. Through the incorporation of first hand knowledge of all combat experienced members of the unit, our students receive the know-how needed to be an effective and productive member of a unit as soon as they arrive. As new cadre members, recently returning from missions around the world, arrive at the unit, we incorporate their experiences into our tactical and technical training. This continuous influx of experience and skills is probably the most important aspect of keeping our technical and technical training realistic and relevant.

The battalion also changes its training to satisfy the needs of units receiving our Soldiers. A recent example is when feedback from units indicated a deficiency in our Soldier's ability to safely handle their weapons during deployments. In response, the Battalion initiated Weapons Immersion Training (WIT). This month long training having students keep and safeguard their personal weapons has led to increased awareness and weapons safety. It is hoped this program will mitigate negligent discharge incidents during deployments. Feedback from units since the training started indicates the training has proven very successful.

Complementing the Battalion's efforts, each company leads its own initiatives to tailor training to meet MOS specific technical and tactical needs. These efforts, outlined below, reflect personal initiatives of the Soldiers of this command, and reflect greatly on their professionalism.

* Alpha Company's current efforts center on preparing all its SIGINT Analyst Soldiers to be tactically and technically proficient through the incorporation of lessons learned from Special Operations veterans currently assigned to the unit. These lessons learned have been included into the FTX scenarios and small unit tactics. The Special Operations veterans have had excessive experience with patrols outside the wire and were involved in the planning of the training objectives used in the FTX scenarios. These veterans' experiences were also used to update OPFOR on cultural tendencies and behaviors to more closely mimic what realistically happens in theater. We have also incorporated a

methodical Crawl-Walk-Run approach to Army Warrior Training to ensure that our trainers and potential trainers have a thorough understanding of the fundamentals and procedures of tactical maneuvers before they supervise training or take a leadership role in the training. Current efforts also include the standardization of TTPs taught within the company with extensive participation by combat experienced Drill Sergeants and cadre to ensure all students achieve a minimum level of tactical proficiency.

* Bravo Company is a prime example where, regardless of MOS, all soldiers must be trained to the same standard. The company trains initial military training (IMT) Soldiers to be Firefighters and Voice Interceptors, two very diverse skills that we hold to the same standard of tactical training. Both groups of students participate in a combined FTX with Alpha Company. The company's technical training is constantly being updated to reflect any changes in order of battle, communications equipment and procedures, as well as weapons systems and tactics in numerous target languages to include standard Arabic as well as the Iraqi dialect.

* Charlie Company is responsible for six different courses in three platoons: Manual Morse, 98Y (Signals Collector/Analyst) Phase II (IMT), 98C (Signals Intelligence Analyst) Transition, 98Y (formerly 98K) Transition, Prophet Analyst, and Prophet Operator courses. The company has initiated a successful effort to incorporating tactically oriented lessons learned from currently deployed or re-deploying forces throughout the Middle East using scenario based training. The training focuses on familiarizing Soldiers on the methods currently being used during conventional patrolling operations, and imparts valuable cultural awareness considerations. Emulating the Joint Readiness Training Command and National Training Command and incorporating an array of training events (multiple obstacle courses, Engagement Skills Trainer 2000, Maneuver on Urban Training Complex), the field training exercises impart a greater ability to Soldiers to problem solve and rapidly advance in tactical understanding and skill.

* Delta Company trains SIGINT Analysts to perform a highly technical world-wide, Joint analysis mission. Following the battalion's emphasis, the company currently conducts a week-end long FTX which is a culminating event used to evaluate each Soldier's level of tactical proficiency. Technical training for Soldiers has focused on increasing awareness as how Signals Analysts can best support the warfighter conducting real-world operations.

The 344th MI Battalion is committed to producing the best SIGINT and Firefighting Soldiers in the world. While integrating recent veterans' experiences into the training we conduct here, we ask that units currently engaged provide us feedback so we can address them immediately. We have established a web page on NSA Net for that purpose. http://www.gdflw.f.nsa/344th_MI_BN/. Units can provide immediate feedback, TTPs, and material so that we may continually improve the training.

11/100th MI Battalion

The 11/100th MI Battalion is a mobilized reserve battalion composed of a total volunteer staff and cadre from ten separate Army Reserve and National Guard units. The 11/100th was originally mobilized to Fort Huachuca in January 2004 as the 2/84th MI Battalion. Since their initial deployment the unit has graduated over 700 MI professionals in MOSs 97B10, 97E10, and MI NCOES courses. The 11/100th currently teaches a 10 week 97E10 course versus the active component 18 week 97E10 course. The 11/100th was selected to re-write and transition to the 10 week course, which will eventually be utilized by all of the Army Reserve and National Guard MI schools.

As you can see we are doing a lot of things to ensure you are getting the best trained MI Warriors the Army has ever produced.

“SOLDIERS ARE OUR CREDENTIALS”

ALWAYS OUT FRONT!

<http://hometown.aol.com/hickmanmw/aahickmanresumefeb2004.doc>

Michael W. Hickman

Professional Objective & Profile

Supervising Officer, Digital Analysis Branch U. S. Air Force, Aerospace Data Facility, Colorado, Jan. 1987 - May 1990

The Aerospace Data Facility is a 24-hour data center that reports time-critical technical analyses to military command centers across the world.

Lead a 12-person, 24-hour data processing center and directed a contract engineering team for system projects and maintenance. Managed a major software acquisition.

Significantly increased center reporting during a 10% reduction in manpower.

Completed the development of a workstation-based planning tool.

Reduced unused resources by over 5% by establishing new planning procedures.

<http://www.ludvik.com/jobs/past/buckleyang.html>

Aerospace Data Facility Buckley Air National Guard
Aurora, Colorado

Description of Work:

The 5KV service originates at the existing utility plant and feeds six (6) 5KV double ended unit substations. The 100,000 SF secured area includes an intense RFI grounding system which consists of a continuous silver solder 4-inch by 4-inch copper mesh mat. Other electrical systems within the facility include public address, emergency power distribution and lightning protection.

Name and Address of Owner:

Aerospace Data Facility
18500 E. 6th Avenue
Aurora CO 80011
Captain Nathan Jones
(303) 341-3474

Contract Number and Type:

Lump Sum Bid

Period of Performance:

Project Duration: 730 days
Finish Date: October 1995

References:

Army Corps of Engineers
P.O. Box 473390
Aurora, CO 80047-3390
Eric Peterson
(303) 367-0335

M.A. Mortenson

1875 Lawrence Street, Suite 600
Denver, CO 80202
Leon Nelson
(303)295-2511

Percentage of Work by Ludvik Electric Co.'s own forces:

100%

From: CMSgt Mike Bergman (berg...@afnews.pa.af.mil)

Subject: DoD News 07/30/93

Newsgroups: soc.veterans

Date: 1993-08-01 19:14:56 PST

ARMY

M. A. Mortenson Company, Federal Contracting Group, Colorado Springs, Colorado, is being awarded a \$19,351,000 firm fixed price construction contract to construct an addition to the Aerospace Data Facility and the Operations Building. Work will be performed at Buckley Army National Guard, Colorado, and is expected to be completed by November 25, 1995.

<http://www.fas.org/irp/agency/navsecgru/denver/index.html>



Denver
Naval Security Group Activity

The mission of NSGA Denver is to provide a trained, qualified, and mission-ready force to support the war-fighter, site activities, and military communities. NAVSECGRUACT Denver is located in the Joint Service Admin Facility (JSAF) on Buckley Air National Guard Base in Aurora Colorado. NSGA Denver stood up as an activity on 1 November 1995. Growing out of a small Navy Detachment with less than 30 Sailors, NAVSECGRUACT Denver currently has over 170 Officer and Enlisted personnel and is still growing.





DEPARTMENT OF THE NAVY
OFFICE OF THE CHIEF OF NAVAL OPERATIONS
2000 NAVY PENTAGON
WASHINGTON, DC 20350-2000

Canc frp: Aug 05

OPNAVNOTE 5450
Ser DNS33/4U681877
August 26, 2004

OPNAV NOTICE 5450

From: Chief of Naval Operations

Subj: RELOCATION AND RENAMING OF NAVAL SECURITY GROUP
DETACHMENT (NAVSECGRU DET) BAD AIBLING, GERMANY

Ref: (a) OPNAVINST 5450.169D
(b) SNDL (OPNAVNOTE 5400 Series)

1. Purpose. To implement name change and relocation for subject shore activity detachment assigned to the Chief of Naval Operations for command per reference (a).

2. Background. The relocation and renaming is necessitated by the closing of the U. S. Army Bad Aibling Station, the host command for the NAVSECGRU DET. The detachment will relocate to U. S. Army Kaserne Griesheim, Germany and be renamed U. S. NAVSECGRU DET Griesheim. Detachment will now be subordinate to Naval Security Group Activity, Denver, CO.

[deletia]

[deletia]



DEPARTMENT OF THE NAVY
OFFICE OF THE CHIEF OF NAVAL OPERATIONS
2000 NAVY PENTAGON
WASHINGTON, DC 20350-2000

Canc frp: Nov 2006

OPNAVNOTE 5450
Ser DNS-33/5U838446
December 29, 2005

OPNAV NOTICE 5450

From: Chief of Naval Operations

Subj: DISESTABLISH COMMANDER, NAVAL SECURITY GROUP COMMAND
(COMNAVSECGRU), FORT GEORGE G MEADE, MD; RENAME AND REALIGN
ALL SUBORDINATE NAVSECGRU COMMANDS AND DETACHMENTS

Ref: (a) OPNAVINST 5450.169D
(b) OPNAVINST 5450.171C
(c) OPNAVNOTE 5400 of 18 Jun 03

1. Purpose. To approve disestablish of subject echelon two shore command and associated realignment and renaming of commands and detachments assigned to the Chief of Naval Operations (CNO) per reference (a).

[deletia]

c. Renamings/Re-designations

From

To

[deletia]

Commanding Officer
Naval Security Group Activity
Denver
Aerospace Data Facility Stop 77
18201 E Devils Thumb AVE
Buckley ANG
Aurora CO 80011-9536

Commanding Officer
Navy Information Operations
Command Colorado
Aerospace Data Facility Stop 77
18201 E Devils Thumb AVE
Buckley ANG
Aurora CO 80011-9536

<http://www.navycthistory.com/NSGStationsHistory.txt>

NAVSECGRUACT Denver was located in the Joint Service Admin Facility (JSAF) on Buckley Air National Guard Base in Aurora, Colorado. NSGA Denver stood up as an activity on November 1, 1995, growing out of a small Navy Detachment with less than 30 Sailors.

On September 30, 2005, NSGA Denver was administratively closed and was re-established on October 1, 2005 as the Navy Information Operations Command (NIOC) Denver, Aurora, CO.

<http://www.usncva.org/awards/1996.html>

[EXCERPTS]

The Naval Cryptologic Veterans Association (NCVA) is pleased and honored to announce the Navy and Marine Corps winners of the 1996 "On-the-Roof" Gang (OTRG) Cryptologist of the Year competition and the NCVA Awards for Cryptologic Support Excellence (NCVA ACSE). The following winners were selected by the Commander, Naval Security Group Command, Rear Admiral Thomas F. Stevens:

Marine Corps OTRG Cryptologist of the Year: Master Gunnery Sergeant [X], United States Marine Corps, Company H, Marine Support Battalion, Medina.

SSgt [X]

In 1995 he assumed his current position as Company Administrative Chief for Sub Unit One, Alpha Company, Buckley ANGB, Aurora, Colorado.

In forwarding his nomination, CO, NSGA, Denver stated: "Staff Sergeant [X]'s professionalism and devotion to duty clearly exemplifies the outstanding cryptologic support for which the Naval Cryptologic Veterans Association recognizes as vital to the accomplishment of the cryptologic mission...."

MGySgt [X] worked diligently to ensure that Company A, Marine Support Battalion administrative requirements were taken care of, ensuring that the Marines of Company A could concentrate 100% of their efforts towards the accomplishment of their cryptologic mission."

<http://www.hqcnsq.navy.mil/awards/problems.asp>

[EXCERPTS]

All subordinate commands falling under the cognizance of Commander, Naval Network Warfare Command should follow policy and procedures for awards as set forth by the NNWC Awards Division (N03A2). This includes the block by block instructions as posted on the awards webpages.

Reminder About Previous Personal Awards: Block #19

Recently, the Awards Department has come across numerous errors in the reporting of Block #19, Previous Awards and Decorations, on the 1650/3 Awards Form. In addition, we are receiving more and more requests for correction of issued awards due to the number of award being wrong. If block #19 is incorrectly reported, then the number of the award issued from block #23 can be wrong. This leads to many other problems and additional work by the personnel of the Awards Department and additional letters from the Admiral to CNO and COMNAVPERSCOM to have official file copies replaced. To combat this problem, we need help from you in the field. Personnel who originate the OPNAV 1650/3 need to ensure that all personal awards are listed with dates (month/year to month/year). This information should come from the individual's service record, but as you all know, most Sailors' records are not kept up-to-date. If the service record does not match the awards being worn by the individual, then the individual should be questioned and asked to provide copies of all citations for missing awards not listed in the service record.

All NNWC-IOD sites are required to provide the NNWC Awards Division a copy of every medal award citation/certificate for medals received but not issued by COMNAVNETWARCOM. This includes Joint Medals issued by our Joint Operational Centers at Misawa, Hawaii, Texas, Georgia, Colorado, Menwith Hill and Alice Springs.

Joint Award Policy Change

The Naval Security Group Awards Manual allows the issuance of Navy EOT awards in conjunction with Joint EOT awards to personnel at the Navy Information Operations Commands Hawaii, Misawa, Texas, Colorado, Georgia, Maryland, Menwith Hill and Alice Springs. The majority of these Navy awards were for in-depth Navy collateral duties that could not be included in a Joint award nomination. It has come to our attention by NSA that it is against DOD Award Regulations for two awards with the same period to be issued to a single individual, even though the accomplishments and subject of the award are different. In order not to jeopardize any issuance of a Joint award to our Sailors, NSA is allowing Joint award nominations from the above mentioned commands to include service related matters in the award nomination. No more than 20% of the Joint award nomination should contain service related matters. This change will be reflected in the upcoming new Awards Manual or in a large change to NAVSECGRUINST 1650.9D.

Newsgroup alt.politics.org.nsa: [since disappeared from Google]
From lwir...@aol.com (Loring Wirbel)
Date: 24 Sep 1995

[deletia]

On Sept. 24 [1995, presumably], the Denver Post carried large display recruitment ads from Lockheed-Martin in which the company called for DSP algorithm specialists to work at the "Regional SIGINT Operations Center (Denver, Colo.)"

100 Jefferson County Parkway, Suite 1520
Golden, CO 80419-1520
7:30 - 6:30 Mon. - Fri.

★ ★ HELP ★ ★
\$43,000 + after training. Start im-
med. No exper. No problem.
Mgmt. pos. within 4 wks. \$650/wk.
offer. Training. Call Sandra 267-7724

● Mailroom
● Assembly
● Warehouse
Excellent Bonus & Benefits
Southeast 737-7801 North 940-9292
Never a Fee
Job Store Temporary

Landscape laborers needed im-
mediately due to high volume of
work.
100 m²
positive
Call for
person
E. Wa

great engineer skills. Flex. hrs. approx. 10-24 hrs. w/ky. EOE. Fax resume to: Roxann [unclear] Career Search 791

Engineering

Denver Post, Denver, Colorado
Sun Day 24 Month Sep Yr 1995
Page #217 Column

LOCKHEED MARTIN MISSILES AND SPACE SOFTWARE ENGINEERS AND ANALYSTS - Solve challenging problems in:

- Automated Message Handling
- Multilevel Security
- ELINT Processing
- Algorithm Development
- Signal Data Processing
- Data Correlation and Fusion
- Human-Computer Interaction
- Mission Control and Simulation
- Software Process Improvement (SEI/CMM)
- High-Performance Database Organization and Access

Long-term opportunities exist in Colorado and California for professional engineers desiring to join a growing line of business. We have positions for recent graduates and experienced personnel in the following program and skill areas:



- **Regional SIGINT Operations Center** - Design and implement new workstation interfaces, database access techniques and data fusion capabilities (Denver, CO).
- **Tactical and Strategic Signal Reconnaissance** - Develop signal processing algorithms and systems, and perform ground system integration (Denver, CO).
- **Space Information Management Systems** - Information systems technology products involving position location, communication and environmental monitoring systems (Denver, CO).
- **Space Warfare Center (TENCAP)** - Develop concepts, prototype, and test systems providing real-time data to ground-based and airborne forces (Colorado Springs, CO).
- **Advanced Ground Systems** - State-of-the-art satellite command and control, mission management and mission simulation systems (Sunnyvale, CA).
- **C and C++ Programming for UNIX -- Near-Real-Time Software -- Object-Oriented and Relational Databases -- Client/Server Open Systems -- CASE Tools -- Object-Oriented Design and Implementation -- Motif and Open Windows -- Software Design Methodologies**

A Bachelor's degree in Computer Science, Electrical Engineering or Mathematics and U.S. citizenship are required. Applicants selected will be subject to a government security investigation and must meet eligibility requirements for access to classified information. If you expect to become available within the next 180 days, apply now.

Lockheed Martin offers competitive salaries, benefits and opportunities for advancement. For immediate consideration for Colorado positions, please fax (512) 386-4271 or send your resume to: Lockheed Martin Employment Office, Dept. 835-0924, P.O. Box 17100, Austin, TX 78760.

For California positions, please fax (408) 742-6194 or send your resume to: Lockheed Martin Professional Staffing, Dept. NPDENXM, P.O. Box 3504, Sunnyvale, CA 94088-3504. Lockheed Martin is an equal opportunity, affirmative action employer.



LOCKHEED MARTIN



Innovati Heart of

Because of our Intermedics, Inc. is design and manufac control cardiac an work with cutting-e mising committmen ted growth of ou current career-enr

CLINICA

We are looking for field of cardiac pa individual will provi cians and medical motivated, and hav Drug Laws. BSEE, Bi sent degree with a die medical device

MANUF/ ENGINEE

BSEE/BSME with m electronics manufac ment. Responsible f production operatio packy. Initiates and improvements in th sive application and level also open.)

MANUF/ SUPERVI

Bachelor's Degree in with a minimum of tronics assembly of shift wirebond, elect ion in our Hybrid C

HYBRID ENGINEE TECHNIC

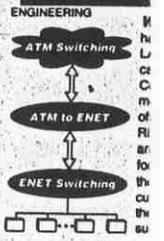
Provide technical su hybrids. Duties incl ment set-up, yield imp ing. Associate's Deg technical field with i ence in microelectr

We provide an exc package and outstand Our Angleton camp both Houston and th eration, send your r Terri White, INT Technology Dr., /

OUR BU



We Are An Equal Opp



Ne
Projec

TECHNICAL REVIEW DOCUMENT

for

OPERATING PERMIT 95OPAR118

to be issued to:

Buckley Air National Guard

Buckley Air National Guard Base (ANGB)

Arapahoe County

Source ID 0050028

Michael E. Jensen

May 1, 1997

Significant features of the Base include office buildings, recreational facilities, aircraft hangers, an engine test cell, fuel storage and dispensing systems, and storage and maintenance facilities for ground equipment. There are approximately 150 buildings on the Base but there are no community facilities, housing or full-time dining or billeting capability. However, dormitories are currently scheduled for construction in 1998. The Base population is approximately 2,957 during the week and 1,300 during the monthly training assemblies. There are on-going modernization programs to remove, replace or re-model a significant number of the buildings at the Base. The closing of two major military installations in the Denver metropolitan area has increased interest in planning for additional facilities at the Base for other military organizations.

<http://www.westword.com/issues/2000-11-16/news/sidebar.html>

From westword.com

Originally published by Westword 2000-11-16

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Next Question

What goes on at Buckley? It's up in the air.

By Eileen Welsome

After the protest at Buckley Air Force Base, Westword contacted the base's public-information office to request information about what, exactly, goes on out there -- and what taxpayers' money is paying for. Candrea Thomas, deputy director of public affairs, asked for a couple of days to research our questions. Four days later, the following response arrived on the Westword fax machine:

[deletia]

Q: How many people are assigned to the Aerospace Data Facility?

A: About 2,900 military, government civilians and contractors.

Q: What is the total number of people on base, including all contractors, civilians, and military members?

A: Approximately 8,000.

From: JobBank...@data.jobbankusa.com
(JobBank...@data.jobbankusa.com)
Subject: Resume: COMPUTER OPERATOR/NOC TECHNICIAN II
Newsgroups: misc.jobs.resumes, us.jobs.resumes
Date: 2000/08/06

[RESUME ANNOUNCEMENT]

Info:

ResumeId: 1000164294
Position: COMPUTER OPERATOR/NOC TECHNICIAN II
City/State/Zip: AURORA, CO 80011

Resume:

July 98-June 00
Buckley Air National Guard Base, Aurora, CO

Senior Reporter of Reporting and Operations Center in Aerospace Data Facility. Responsible for managing 10 personnel as well as quality control of issued products from the section.

Jan. 96-July 98
Augsburg, Germany

Signals Intelligence Analyst (12/96 to 5/97) Deployed to Bad Aibling, Germany in support of Operation Joint Endeavor/Joint Guard, Task Force Eagle and Task Force Able Sentry as senior reporter.

(10/97 to 3/98) Deployed to Dal Molin Air Base, Italy, Assigned to United States National Intelligence Cell, Combined Air Operations Center as manager of ground forces database and WARLORD system operator.

June 92 - Jan. 95
Fort Hood, TX

Intelligence Analyst/Operations Manager

Mar. 92 - June 92
Fort Devens, MA

Electronic Warfare Analyst Course

Sept 91 - Mar. 92 Goodfellow Air Force Base, TX

Electronic Warfare/Signal Intelligence Analyst Course, Technical Training Wing

http://www.space-careers.com/agency/cvview_58.html

Date Submitted: 25-02-2005

Last Modified: 29-06-2006 (07:35)

PERSONAL PROFILE

An experienced Spacecraft Operations Analyst/Controller. I am very results driven, detailed oriented and highly organized. I have been involved in all phases of Spacecraft and Ground Operations, from pre-launch testing right through to on orbit operations.

[deletia]

ADDITONAL PROFESSIONAL EXPERIENCE

NATIONAL SECURITY AGENCY: (February 1967 – January 1994)

· **Camp Smith, Hawaii (Senior Cryptologic Staff Officer)**

· **Aerospace Data Facility, Aurora, Colorado (Senior Collection Operations Officer)**

· **Fort George G. Meade, Maryland (Senior Staff Officer)**

· **Menwith Hill Station, Yorkshire, England (Collection Operations Technician/Officer.)**

[deletia]

<http://www.stk.com/corporate/newsletters/enews/dec02/>

Defense and intelligence professionals have the opportunity to attend AGI's STK classified regional users' group meeting on Jan. 23, 2003 in the Denver, CO area. This free, one-day event will begin with a keynote address by Col. William Canda, Commander Aerospace Data Facility. Throughout the day, U.S. government representatives and industry specialists will present user case studies that focus upon the integration of COTS software technology within mission critical systems. For a detailed agenda and on-line registration, visit www.stk.com/classified (U.S. citizens only with Top Secret SCI security level clearance required).

http://www.uscg.mil/reserve/msg04/coast237_04.htm

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FM COMDT COGARD WASHINGTON DC//CG-2//
TO ALCOAST

ADF AURORA CO//DIR/MAST/CGLO//

AMEMBASSY SANTO DOMINGO//DAO//

DEFINTAGENCY WASHINGTON DC//JITF-CT//

BT

UNCLAS //N01650//

ALCOAST 237/04

COMDTNOTE 1650

SUBJ: PEOPLE - INTELLIGENCE AWARD WINNERS FOR 2003

A. COMDT COGARD WASHINGTON DC 011554Z MAR 04/ALCOAST 094/04

B. COMDT COGARD WASHINGTON DC 011601Z MAR 04/ALCOAST 095/04

C. COMDT COGARD WASHINGTON DC 011607Z MAR 04/ALCOAST 096/04

1. THIS MESSAGE ANNOUNCES THE WINNERS OF THE 2003 CG-210, ADMIRAL FREDERICK C. BILLARD, AND LIEUTENANT CHARLES S. ROOT INTELLIGENCE AWARDS.

[deletia]

4. LIEUTENANT TIMOTHY LAVIER OF THE AEROSPACE DATA FACILITY IS THE WINNER OF THE INAUGURAL LIEUTENANT CHARLES S. ROOT INTELLIGENCE AWARD FOR EXCEPTIONAL PERFORMANCE OF DUTY WHILE SERVING AS THE CHIEF, MARITIME ANALYSIS SUPPORT TEAM. DURING THIS PAST YEAR LIEUTENANT LAVIERS LEADERSHIP ROLE IN PROVIDING CONTINUOUS HOMELAND SECURITY INFORMATION TO THE DEPARTMENT OF HOMELAND SECURITY, DEPARTMENT OF DEFENSE, AND OUR ALLIES HAS BEEN EXCEPTIONAL. HIS EXEMPLARY PERFORMANCE HAS GIVEN THE COUNTRY AN EDGE IN PROVIDING SUPPORT TO A WIDE VARIETY OF CUSTOMERS. LIEUTENANT LAVIERS ACCOMPLISHMENTS HAVE GREATLY IMPROVED HOMELAND SECURITY, THE COAST GUARD MARITIME DOMAIN AWARENESS, AND RESULTED IN EXCEPTIONAL SUPPORT TO COAST GUARD AND NATIONAL OPERATIONS.

<http://www.nmia.org/awards/2004awards.htm>

2004 NATIONAL MILITARY INTELLIGENCE ASSOCIATION
NATIONAL AWARDS

The United States Coast Guard
Lieutenant Charles S. Root Award
presented to
Lieutenant Timothy R. Lavier, USCG

Lieutenant Timothy R. Lavier is presented the inaugural Lieutenant Charles S. Root Award for exceptional performance of duty while serving as the Chief, Maritime Analysis Support Team, Aerospace Data Facility, Denver Colorado. During this past year, Lieutenant Lavier played a leadership role in providing continuous homeland security information to the Department of Homeland Security, Department of Defense, and our allies. Although much of his duties are classified, his exemplary performance has given the United States an edge in providing support to a wide variety of customers. Lieutenant Lavier's accomplishments have greatly improved homeland security, the Coast Guard's maritime domain awareness, and resulted in exceptional support to Coast Guard and National Operations.

http://www.buckley.af.mil/guardian/2004/August/guardian_27_aug_04.pdf

Aerospace Data Facility welcomes new vice commander

By Ms. Marla Downer

Aerospace Data Facility

Col. John D. Wright became the newest vice commander of the Aerospace Data Facility, and Field Station Denver commander, on Aug. 4 at a change of command ceremony attended by more than 250 military and civilian professionals. Maj. Gen. Richard J. Quirk officiated at the ceremony where Colonel Wright assumed Command from Col. Gary W. Dieringer, who retired after serving more than 25 years on Active Duty. In his new position, Colonel Wright will help lead over 3,000 personnel, comprised of military and civilians, and will direct sitewide operations to provide continuous global information for our nation and its allies to inform, warn and protect.

Colonel Wright has spent many years as a Department of Defense visionary and leader of teams attaining information superiority over adversaries. As he took the podium, Colonel Wright first affirmed his dedication to the mission of the ADF.

"Our ADF at Buckley has a proud history starting more than 30 years ago in a period of conflict," he said.

"But we have evolved from single pipes to integration -- a model of horizontal integration -- with unlimited opportunities to mission manage and to provide support even more effectively and efficiently in the near future.

"So, I am humbled and honored to be the vice commander of such a proud ADF and to be your field station commander at such a critical time in our nation's history, when we must be ever vigilant, ever present and ever aware of threatening situations both here and abroad. I look forward to hard work from each and every one of you. "Work which will make our site even better- better than when we signed in. For that, I am going to ask of your time, your talents, your energy and your commitment to deal with the threats to America and her allies of peace and freedom," the colonel added.

Colonel Wright comes to the ADF from the 67th Information Operations Group, where he commanded more than 700 personnel worldwide.

He has also commanded at the squadron, center, detachment and flight levels. In addition, as a joint specialty officer, he held transformational joint positions in a combatant command, and on the Office of the Secretary of Defense Staff. He has served in multiple specialties as an intelligence, space and information operations officer in the field in Kosovo during Operations Joint Guardian, Enduring and Iraqi Freedom. He also served in other operational positions in the Air Intelligence Agency, Air Combat Command, United States Air Forces Europe, plus the Pentagon, and the National Security Agency.

<http://aia.lackland.af.mil/homepages/dp/jobs/ADF04-004E13.doc>

AIR INTELLIGENCE AGENCY

THIS IS AN EXCEPTED SERVICE POSITION

VACANCY ANNOUNCEMENT NUMBER: ADF04-004E13

POSITION TITLE, SERIES, GRADE: Logistics Management
Specialist, GS-0346-12

ORGANIZATION, LOCATION AND DUTY STATION: Aerospace Data Facility
Buckley, CO

WHO MAY APPLY: All qualified US citizens

AREA OF CONSIDERATION: Local Commuting Area

(Note: Personal travel, moving expenses or other relocation costs incurred in accepting this position may not be authorized.)

OPENING DATE: 19 August 2004 CLOSING DATE: 25 August 2004

POINT OF CONTACT: Customer Service Desk, AIA/DPCS, 321 Hof
Street, San Antonio, TX 78243-7129 at ((210) 977-2716 or DSN
969-2716.

SPECIAL REQUIREMENTS/CONDITIONS: This position has been designated for drug testing. If you are selected for this position you may be subject to urinalysis testing prior to appointment, and you will be subject to random urinalysis testing as a condition of employment. Individual selected will be subject to a Single Scope Background Investigation (SSBI) and must be able to acquire and retain a Top Secret (TS) clearance with Sensitive Compartmented Information (SCI) access in order to fully perform the duties and responsibilities of this position. Incumbent will be required to take a pre-employment and periodic counter-intelligence polygraph examination as a condition of employment. Position requires occasional temporary duty travel (TDY), utilizing any or all modes of transportation, both commercial and military. Air Force requires all employees to sign up for Direct Deposit (Sure Pay) with a Financial Organization. Incumbent must meet appropriate certification requirements IAW the Defense Acquisition Workforce Improvement Act (DAWIA) no later than 18 months after accepting this position.

[http://security-clearance-jobs.techexpousa.com/show_display_posting.cfm?
posting_id=31030&employer_id=10930](http://security-clearance-jobs.techexpousa.com/show_display_posting.cfm?posting_id=31030&employer_id=10930)

SIGNALS ANALYST 3 for CACI

Interview with us at TECHEXPO in Tysons Corner, VA on Wednesday November 01, 2006

Interview with us at TECHEXPO in Baltimore, MD on Thursday November 02, 2006

Summary Information

Position Title: SIGNALS ANALYST 3

Posted on: 06/06/2006

Short Description: SIGNALS ANALYST - TS/SCI with CI Poly

Location: City: Denver State: CO

Position Type: Terms: Permanent Location: On-Site Only Hours: Full Time

Salary: \$70k + - Hourly

Required Core Skills:

SIGINT engineering - Required Experience: 5+ Years - Importance: Required

SIGINT engineering - Required Experience: 5+ Years - Importance: Required

Elint - Required Experience: 5+ Years - Importance: Required

SIGINT Operations - Required Experience: 10+ Years - Importance: Required

- Required Experience: N/A - Importance: Required

Security clearance required: Top Secret - SCI, Top Secret w/ CI Poly

Full Description

Please send resume to bshamblin@caci.com

Responsible for assisting in the signal analyses and documentaton of radar and communication signals. May provide guidance and direction to signal studies team in overall conduct of projects. Conducts ongoing Signal Intelligence (SIGINT) analysis tasks, monitors on-going analysis efforts, provides results for review, ensures completion within time constraints, and writes, reviews and/or presents study results to the customer. Conducts SIGINT technical studies and writes reports documenting analytic results. Participates in briefings and technical meetings to obtain the latest technological information, exchange technical concepts and ideas, and increase the knowledge base of the program office. Provides test and evaluation support in the form of in-depth digital product analysis. Performs SIGINT system modeling and analysis to assist and advise in future capability studies. Creates and maintains ELINT and COMINT technical databases used to support operational analysis. Maintains multilevel communications with users, external agencies, and organizations to enhance program office understanding of real-world applications of system products. Traces user design/information requirements to ensure they will be satisfied. Requires a Bachelors degree in a related SIGINT

technical discipline experience and 5-7 years of related experience. Communications: Strong technical writing skills and the ability to prepare technical analysis details and summaries. Demonstrated ability to develop and present technical briefings on completed analysis projects. Ability to effectively coordinate activities with other work centers and analysis efforts. Desired experience, a minimum of 7 years of SIGINT systems analysis experience with 5 years of operations experience. Strong MS Office skills to include Word, PowerPoint and Excel. Proficient in using Gale-Lite. Detailed knowledge of current national systems capabilities and their tactical applicability. Working knowledge of automated intelligence analysis tools and modeling. Travel required on a monthly basis.

http://www.house.gov/beauprez/HTML_Newsletters/08272004.htm

On August 23rd, Congressman Beauprez, along with Chairman Duncan Hunter (Chairman of the House Armed Services Committee and former Army Ranger), attended a briefing and tour of Buckley Air Force Base.

The Congressmen then took a tour of the Aerospace Data Facility which provides space-based warning capabilities. The mission of the 460th Space Wing is to provide combatant commanders with superior global surveillance, worldwide missile warning, expeditionary forces and support to homeland defense missions. Basically the first line of defense, able spot missiles that have been launched.

Congressman Beauprez and Chairman Hunter were very impressed by the briefings and demonstrations, both strongly committed to advancing our defense strategies in support of our troops abroad as well as our nation's security at home.

[EXCERPTS]

Position/Title: Sr. Security Analyst

- Background in cyber intelligence and DoD reporting
- Current Top Secret Sensitive Compartmented Information (SCI) clearance based on SSBI with CI poly (Updated in 2003). Read on to B/G/TK/HCS.

EXPERIENCE

10-05 to Present Department of the Army (GG-13)

Chief, Foreign Computer Network Operations

- Manage team of 6 contract personnel analyzing cyber intrusions.
- Responsible for the analysis and reporting of global hacking and cyber intrusion events.
- Implement new collection strategies based on technological advances and ever-changing hacker methodologies.

8-04 to 10-05 Sytex Inc. Ft. Belvoir, Va

Computer Network Exploitation Analyst (GG-13 Equivalent)

SIGINT Support to Computer Network Operations Branch – Target Development and Discovery

- Provide detailed SIGINT analysis, open-source research, all-source compilation, and reporting of complex information networks in support of INSCOM and 1st Information Operations Command missions.
- Reconstruct detailed network infrastructures based on intelligence, open-source research, and analytical methodology.
- Produce SIGINT product reports and technical support packages in support of information needs, intelligence requirements, and requests for information.

8-03 to 8-04 Sytex Inc., Ft. Belvoir VA

Senior Intelligence Analyst - (GG-12 Equivalent)

- Intelligence analyst assigned to analyze numerous trans-national terrorist organizations, provided critical intelligence support to national agencies, regional commands, and joint operational commands.

-Strong knowledge of international telecommunications infrastructures

-Assisted in publishing Tactics, Techniques and Procedures (TTP).

-Utilize numerous intelligence community databases and produce graphical solutions to complex networks via GOTS and COTS software suites including but not limited to Analyst Notebook 6, Microsoft Office XP, Renoir, and Arcview/ArcGIS. Regularly participate in cross-agency seminars keeping abreast of CT issues. Strong knowledge of communications systems, trend analysis, and all source fusion techniques.

12-99 to 8-03 Company A, Marine Cryptologic Support Battalion, Aurora, CO

Senior Operations Controller - Lead Reporter

- Supervisor and manager of 17 member joint-service and DoD civilian team of intelligence analysts responsible for the analysis and reporting of highly perishable defense related events to worldwide strategic and tactical consumers.

- Conducted and oversaw site's real-time fusion analysis and reporting mission. Responsible for coordinating over multiple communications channels with worldwide operational and strategic units ensuring national-level tasking requirements were fulfilled; translated ad-hoc tasking requirements into usable intelligence and disseminated to tactical and strategic customers.

- Senior editor and release authority for all narrative product reports and technical reports that were published by the Reporting Operations Center.

- Responsible for the relay of high interest operational and global events affording timely national-level asset management in support of military/non-military operations and exercises.

<http://72.14.209.104/search?q=cache:lvvVKhEM37gJ:360.yahoo.com/profile-ZAkjzp8zdKTJZ4B5kKzoOgMW+elint+aurora&hl=en&gl=us&ct=clnk&cd=10>

[Profile of Sgt. X]

Places I've Worked:

US Army Military Intelligence TECH- ELINT Analyst Seirra Vista, US From 2001 to 2002	US Army Military Intelligence TECH- ELINT Analyst Camp Humphrey's Korea (Republic of) From 2002 to 2005	US Army Military Intelligence TECH- ELINT Analyst Aurora , US 2005
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<http://www.employmentguide.com/jobdetails.html?JobID=1154019>

USMilitary.com

JOB INFORMATION:

Title: SIGNALS INTELLIGENCE/GROUND ELECTRONIC WARFARE

Posted 16 days 21 hrs ago [*accessed 2006-10-30T19:15Z*]

Location: Denver , CO

CORPORATE INFORMATION:

Company Name:USMilitary.com

JOB DETAILS:

The Signals Intelligence/Ground Electronic Warfare OccFld includes the operation of Signals Intelligence (SIGINT) collection and communications equipment.

Marines in this field conduct collection, analysis, production, and dissemination of collected data. In addition, the Marines manage communication equipment and facilities. Marines entering the SIGINT/EW field will be required to set up and operate communications and/or electronic equipment, prepare reports, conduct preventive maintenance on assigned equipment, and assist in the operations control and management of SIGINT/EW equipment/facilities.

Entry-level jobs include Communications Intelligence Intercept Operator, ELINT Intercept Operator, Special Intelligence Communicator, or Voice Intercept Operator. Marines can also enter the SIGINT field at the grade of corporal or sergeant.

Duty assignments are made to Naval Security Group field stations, the operating forces Radio Marine Battalions, the Air Wing VMAQs, and the staff sections of the Marine divisions and wings.

All personnel are expected to become familiar with marine tactical SIGINT/EW operations to include: electronic attack (EA), electronic protect (EP), electronic support (ES), and radio direction-finding functions. These skills may be obtained through formal training and should be acquired prior to obtaining the grade of gunnery sergeant.

Capabilities Overview

Impact Science and Technology (IST) is a small business that was incorporated in the state of New Hampshire in February, 1995. IST has offices in Nashua, New Hampshire; Annapolis Junction, Maryland; and **Aurora, Colorado**, as well as personnel assigned to work as integrated members at various customer facilities. **The company employs over 185 individuals, more than 90% of whom have full TS/SI clearances with compartmented accesses.** Each of IST's three offices has a TOP SECRET facility clearance with full CWAN connectivity, secure phones, and classified data/document processing capabilities. In aggregate, IST has over 14,000 sq. ft. of fully accredited SCIF space. IST prides itself on having a solutions-oriented workforce of skilled professionals who can work independently, in teams, or integrated with the customer staff. IST's prevailing goal is to design and develop best-value solutions to real-world problems.

[deletia]

1.5 ELINT and EA Collection and Analysis Support

IST has a cadre of recognized signals analysts who are able to address the entire spectra of signal collection system design, deployment, and operation issues, as well as signal reporting, analysis, and signal evaluation. While specializing in ELINT and Electronic Attack (EA) signals, the analytic staff at IST also possesses collection and analysis capabilities in communication, FISINT, and data signals. This team routinely provides operations support to IST's customers, and the expertise of these analysts is routinely brought to bear on system design, development, and testing efforts to ensure that the objectives and concerns of the end-user are fully addressed in the delivered product. At the customer's request, IST analysts provided crises support for military units and intelligence efforts during the Persian Gulf action and Desert Storm. These analysts continue to provide support for Bosnia, Kosovo, and Operation Enduring Freedom as needed. IST signals analysts identify intelligence gaps, obtain the requisite raw data, and perform the in-depth signal analysis to satisfy national intelligence requirements in support of the Warfighter and military planners. IST analysts routinely interface with the national databases; government, contractor, and allied personnel; and national data collection systems in an effort to ensure that US intelligence is complete, up-to-date, and accurate.

The depth and breadth of experience available via IST personnel is evident from the efforts these individuals have supported. **IST has provided continuous operational support to the National Technical ELINT Center (NTEC) since 1979.** IST analysts and programmers were instrumental in the development of the MARTES signals analysis suite and provided initial design inputs to the Advanced ELINT Signals Database (AESD). The involvement of IST personnel in design and testing of Specific Emitter Identification (SEI) technology has furthered the implementation of the Matchlight SEI database. IST signals analysts are routinely sought for advice and guidance in a wide range of signals analysis and evaluation efforts.

Labor Rates by Position

IST Price List (prices below include Industrial Funding Fee (IFF))

No.	Labor Category	FY02	FY03	FY04	FY05	FY06
1	Support Specialist II	\$ 64.13	\$ 67.08	\$ 70.17	\$ 73.39	\$ 76.77
2	Support Specialist I	\$ 47.91	\$ 50.11	\$ 52.42	\$ 54.83	\$ 57.35
3	Senior Principal Engineer	\$120.08	\$125.60	\$131.38	\$137.42	\$143.75
4	Principal Engineer	\$109.56	\$114.60	\$119.87	\$125.39	\$131.15
5	Senior Engineer	\$ 79.43	\$ 83.08	\$ 86.91	\$ 90.90	\$ 95.08
6	Engineer I	\$ 58.76	\$ 61.46	\$ 64.29	\$ 67.25	\$ 70.34
7	Technician	\$ 50.77	\$ 53.11	\$ 55.55	\$ 58.10	\$ 60.78
8	Subject Matter Expert VI	\$179.25	\$187.50	\$196.12	\$205.14	\$214.58
9	Subject Matter Expert V	\$145.26	\$151.94	\$158.93	\$166.24	\$173.89
10	Subject Matter Expert IV	\$120.28	\$125.81	\$131.60	\$137.65	\$143.99
11	Subject Matter Expert III	\$ 94.86	\$ 99.22	\$103.79	\$108.56	\$113.56
12	Subject Matter Expert II	\$ 71.00	\$ 74.27	\$ 77.68	\$ 81.26	\$ 84.99
13	Subject Matter Expert I	\$ 56.01	\$ 58.59	\$ 61.28	\$ 64.10	\$ 67.05
14	Program Manager IV	\$151.26	\$158.22	\$165.50	\$173.11	\$181.07
15	Program Manager III	\$145.26	\$151.94	\$158.93	\$166.24	\$173.89
16	Program Manager II	\$127.37	\$133.23	\$139.36	\$145.77	\$152.47
17	Program Manager I	\$117.11	\$122.50	\$128.13	\$134.03	\$140.19
18	Administrative Support II	\$ 56.80	\$ 59.41	\$ 62.15	\$ 65.00	\$ 67.99
19	Administrative Support I	\$ 44.82	\$ 46.88	\$ 49.04	\$ 51.29	\$ 53.65

- Non-professional labor categories above(#'s 1,2,7,18,and 19) are considered incidental to and used solely to support hardware, software and/or professional services, and cannot be purchased separately.
- All of these rates above are for Contractor Site only. Orders for Government-site are outside the scope of this contract.

[http://www.computerjobs.com/job_display.aspx?
jobid=2150997&utm_source=simply_hired&utm_medium=organic&utm_campaign=simply_hired](http://www.computerjobs.com/job_display.aspx?jobid=2150997&utm_source=simply_hired&utm_medium=organic&utm_campaign=simply_hired)

If you are working or aspiring to work in today's United States Intelligence Community... NOW is the time to join our growing team at L-3 Intelligence Solutions Division (ISD).

L-3 is a rapidly growing public company (NYSE: LLL) with revenues estimated at \$12.5 Billion, and over 60,000 dedicated employees. L-3 is a leading supplier of communications and specialized products and services to the US Department of Defense, intelligence agencies, federal civilian agencies, state and local governments, foreign governments, and major aerospace and defense prime contractors.

L-3 Intelligence Solutions Division is an industry leader in Information Management and Sharing, with emphasis on serving the Intelligence and National Security Communities. 97% of our 2300 employees hold an active government security clearance in more than 28 sites worldwide. L-3 ISD provides a wide range of Intelligence Analyst support, software and systems design, development and integration to government intelligence customers and prime contractors.

Must have a current TOP SECRET clearance and must meet the requirements of DCID 6/4.

The DOLLYWAY contract provides ELINT Signal Analysis support to the National Technical ELINT Center (NTEC). The center's mission is to analyze and report technical ELINT in support of Weapons and Threat Assessments, Electronic Warfare and Acquisition, Crises Support, and Special Projects. The primary tasks to be performed under this contract require knowledge of analog and digital signal processing techniques, radar and threat weapons performance, the ability to draft and publish analytic working aids and the ability to provide a quick-reaction-capability (QRC) to analyze high priority signals in a timely manner to support war-fighting operations.

Conducts independent research and analysis such as measuring and describing signal characteristics, and assists other contract personnel on all analytic duties. Teams with contractor, government analysts or both to satisfy analytical tasks as assigned. Coaches, teaches, mentors, and monitors less-experienced analysts as necessary to improve the corporate knowledge and expertise level of the team.

Required:

7+ years - Technical ELINT Signals Analyst

7+ years - In-depth knowledge of Technical ELINT products and reference data

Desired:

Good writing and oral communications skills.

Start Date: ASAP

Emp. Type: Full Time

Travel: No Travel

of Openings: 1

Location: Aurora, CO -

Overtime Pay: None

Job Number: 00000000130492

Date Posted: 8/18/2008

https://cp-its-rmprd.saic.com/main/careerportal/Job_Profile.cfm?/3W00EM3W5VK834JJF1L3I70O722CMYY90T46XEJ0X9XEXYTBKRBYVGFXXWH14YQ9UT7G8A14RXC2FJISN48DVZ17I3WI68K8SY8SU3QOSN71EZ165ILQQZN27U2X9B5B863I4U0BLO3Q6XSA5XY9NPDQR82G5QR82GTEFEVWG

COMINT Signals Analyst (m) Full Time Regular posted 7/25/2008

Job Category DEF - Defense/Intelligence/Geopolitcl

Req ID 123765

Able to obtain security clearance? None

Currently possess security clearance? Top Secret/SCI w/ CI Polygraph

Location **Aurora, CO**

% Travel

Relocation No

Requirements The Intelligence and Information Solutions Business Unit currently has an opening for a COMINT Signals Analyst.

JOB DESCRIPTION:

SAIC seeks experience with SIGINT collection, analysis, and reporting. **The employee will be responsible for the analysis of communications and non-communications signals over a wide RF range.** Equally adept in the analysis of all analog and digital communications signals to include software analysis of high data rate TDM/PCM. Perform collection, identification and signals analysis of all communications activity in support of government projects.

REQUIRED EDUCATION/SKILLS:

THIS POSITION REQUIRES AN ACTIVE TOP SECRET/SCI WITH CI POLYGRAPH CLEARANCE. Bachelor's degree in Liberal Arts/Sciences (or related field) and/or equivalent formal military training and 6+ years of related experience. SIGINT collection and analysis experience. Candidate must have leadership and management experience. Candidate should also have experience in training other analysts.

DESIRED SKILLS:

Proficiency in operating systems: Windows 98; NT; 2000; SOLARIS. Hardware: Demodulators, Demultiplexers, Receivers, digitizers, Digital Signal Processors (DSP), and Analog/Digital Mixers and Recorders.

Location: Aurora, CO

Area Code: 303

Tax Term:

Pay Rate: Competitive

Length: FULLTIME

Position ID: 119155

Dice ID: saicbot

Travel Required: unspecified

Telecommute: no

Title: Sr. Software Developer (ASP)

Skills: Algorithm, Algorithms, Analysis, Application, Architecture, ASP, C, Developer, Development, Engineer, Java, Management, Performance, Project, Project Management, Software, Software Engineer, Test

Date: 8-18-2008

Description:

The Intelligence and Information Solutions Business Unit currently has an opening for a Sr. Software Engineer in Aurora, Co.

JOB DESCRIPTION:

The Sr. Software Developer's responsibilities will include the analysis of Geo-location algorithms and development of algorithm and application software. The candidate will be responsible for designing, developing or adapting existing geo-location Algorithms. Analyzing algorithms for transfer to production C software with a Java Interface, and development of a Java application using a defined framework and distributed architecture. Develop and test software for implementation of geo-location algorithms and evaluate processing results for performance and accuracy. REQUIRED EDUCATION/

SKILLS:

THIS POSITION REQUIRES A TOP SECRET/SCI WITH LIFESTYLE POLYGRAPH CLEARANCE. Bachelor's degree in related technical discipline (or equivalent work experience) and 8+years experience. Advanced degree in related technical field desired. Experience in project management typically required. Minimum of 4 years of professional experience in algorithm development, 4 years experience with software development using C and Java.

R 031849Z FEB 06
FM CMC WASHINGTON DC(UC)
TO AL MARADMIN(UC)
UNCLASSIFIED//
MARADMIN 053/06
MSGID/GENADMIN/CMC WASHINGTON DC I IOP//
SUBJ/FY07 NATIONAL SECURITY AGENCY (NSA) CRYPTOLOGIC INTERN PROGRAMS//
POC/TOSCANO, K. A./MSGT/26XX OCCFLD SPEC I IOP/-/TEL:703-614-6561
/TEL:DSN 224-6561/TEL:FAX 703-614-1306/EMAIL:TOSCANOKA@HQMC.USMC.MIL//
GENTEXT/REMARKS/

1. THIS MESSAGE REQUESTS NOMINATIONS FOR NSA CRYPTOLOGIC INTERNSHIP PROGRAMS FOR FY07. PROGRAMS ARE OPEN TO ACTIVE DUTY OCCFLD 26 ENLISTED MARINES ONLY AND PROVIDE AN INTENSIVE THREE-YEAR INTERNSHIP WITHIN THE NATIONAL SECURITY AGENCY ENTERPRISE. THESE PROGRAMS ARE DESIGNED TO GIVE PARTICIPANTS IN-DEPTH KNOWLEDGE AND SKILLS IN CRYPTOLOGIC ANALYSIS, INTELLIGENCE PRODUCTION DISCIPLINES, AND NATIONAL/TACTICAL SIGINT OPERATIONS. MARINES COMPLETING THE PROGRAM WILL HAVE INCREASED THEIR KNOWLEDGE IN MULTIPLE SIGINT DISCIPLINES, ENHANCED THEIR UNDERSTANDING OF HOW SIGINT SUPPORTS THE OVERALL INTELLIGENCE COMMUNITY, AND AMASSED ESSENTIAL MOS SKILLS AND EXPERIENCE NOT NORMALLY GAINED IN OTHER CAREER DEVELOPMENTAL TRAINING VENUES.

2. PROGRAM SELECTEES WILL REPORT TO COMPANY B MARINE CRYPTOLOGIC SUPPORT BN (MCSB) (MCC: J39), FT GEORGE G. MEADE, MD, FOR DUTY DURING THE THIRD QTR CY-06 WITH TWO EXCEPTIONS. SELECTEES FOR THE MILITARY OPERATIONAL ELINT SIGNALS ANALYST PROGRAM (MOSAP) WILL REPORT TO COMPANY A MCSB, AURORA, COLORADO (MCC: JB9) AND SELECTEES FOR THE YONSEI UNIVERSITY PROGRAM WILL REPORT TO MARFOR KOREA.

[deletia]

8. THE FOLLOWING CRYPTOLOGIC PROGRAMS ARE AVAILABLE.
(READ: PROGRAM/QUALIFYING MOS/INTENDED RANKS/AVAILABLE QUOTAS/
PROGRAM PURPOSE).

[deletia]

C. MOSAP - MILITARY OPERATIONAL ELINT SIGNALS ANALYST PROGRAM/2631/
SGT-SSGT/1/DESIGNED TO DEVELOP HIGHLY SKILLED OPERATIONAL ELINT
ANALYSTS.

[deletia]

[http://www.marines.mil/news/messages/Pages/2007/FY08%20NATIONAL%20SECURITY%20AGENCY%20\(NSA\)%20CRYPTOLOGIC%20INTERN%20PROGRAMS.aspx](http://www.marines.mil/news/messages/Pages/2007/FY08%20NATIONAL%20SECURITY%20AGENCY%20(NSA)%20CRYPTOLOGIC%20INTERN%20PROGRAMS.aspx)

FY08 NATIONAL SECURITY AGENCY (NSA) CRYPTOLOGIC INTERN PROGRAMS

Date Signed: 2/13/2007

MARADMIN Number: 100/07

UNCLAS

131453Z FEB 07

CMC WASHINGTON DC(UC)

AL MARADMIN(UC)

MARADMIN 100/07

MSGID/GENADMIN/CMC WASHINGTON DC IOP//

SUBJ/FY08 NATIONAL SECURITY AGENCY (NSA) CRYPTOLOGIC INTERN PROGRAMS

//

POC/TOSCANO, K.A . /MSGT/CMC WASHINGTON DC IOP/-/TEL:DSN 224-6561

/TEL:COM (703) 614-6561/TEL:FAX (703) 614-1306

/EMAIL:KARSTA.TOSCANO@USMC.MIL//

GENTEXT/REMARKS/1. THIS MESSAGE REQUESTS NOMINATIONS FOR NSA CRYPTOLOGIC INTERNSHIP PROGRAMS FOR FY08. NOMINATIONS ARE DUE TO POC NO LATER THAN 30 MAR 07. PARAGRAPH 10 DETAILS PROPER PROCEDURES FOR SUBMISSION.

2. THE NSA CRYPTOLOGIC INTERN PROGRAM BRINGS NATIONAL LEVEL SIGINT EXPERTISE TO THE OPERATING FORCES OF THE MARINE CORPS BY PROVIDING IN-DEPTH TRAINING TO ACTIVE DUTY OCCFLD 26XX ENLISTED MARINES. PROGRAMS ARE OPEN TO ACTIVE DUTY OCCFLD 26 ENLISTED MARINES ONLY AND PROVIDE AN INTENSIVE THREE-YEAR INTERNSHIP WITHIN THE NATIONAL SECURITY AGENCY ENTERPRISE. THESE PROGRAMS ARE DESIGNED TO GIVE PARTICIPANTS IN-DEPTH KNOWLEDGE AND SKILLS IN CRYPTOLOGIC ANALYSIS, INTELLIGENCE PRODUCTION DISCIPLINES, AND NATIONAL/TACTICAL SIGINT OPERATIONS. MARINES COMPLETING A PROGRAM WILL INCREASE THEIR KNOWLEDGE IN MULTIPLE SIGINT DISCIPLINES, ENHANCE THEIR UNDERSTANDING OF HOW SIGINT SUPPORTS THE OVERALL INTELLIGENCE COMMUNITY, AND AMASS ESSENTIAL MOS SKILLS AND EXPERIENCE NOT NORMALLY GAINED IN OTHER CAREER DEVELOPMENTAL TRAINING VENUES.

3. PROGRAM SELECTEES WILL REPORT TO COMPANY B MARINE CRYPTOLOGIC SUPPORT BN (MCSB) (MCC: J39), FT GEORGE G. MEADE, MD, FOR DUTY DURING THE THIRD QTR CY-07 WITH TWO EXCEPTIONS. SELECTEES FOR THE MILITARY OPERATIONAL ELINT SIGNALS ANALYST PROGRAM (MOSAP) WILL REPORT TO COMPANY A MCSB, AURORA, COLORADO (MCC: JB9) AND SELECTEES FOR THE YONSEI UNIVERSITY PROGRAM WILL REPORT TO MARFOR KOREA (MCC: 836).

4. MARINES SELECTED FOR A PROGRAM (EXCEPT THE YONSEI UNIVERSITY PROGRAM) WILL INCUR AN OBLIGATION OF SIX YEARS (THREE YEARS IN THE INTERNSHIP AND A THREE YEAR FOLLOW-ON ASSIGNMENT). THE SIX-YEAR SERVICE OBLIGATION IS DESIGNED TO ALLOW AT LEAST ONE FOLLOW-ON TOUR TO THE OPERATING FORCES UPON COMPLETION OF A PROGRAM. ACCEPTANCE TO THE YONSEI UNIVERSITY PROGRAM INCURS A THREE-YEAR OCONUS OBLIGATION (ONE-YEAR AT YONSEI, TWO-YEARS AT SUSLAK). NOMINEES WILL BE REQUIRED TO PROVIDE A PAGE 11 ENTRY TO THE SELECTION BOARD STATING ACKNOWLEDGEMENT OF THE RESPECTIVE OBLIGATED SERVICE REQUIREMENT.

5. APPLICANTS MUST HAVE AT LEAST TWO YEARS ON STATION BY 1 JUL 07 FOR CONUS COMMANDS, AND THREE YEARS ON STATION BY 1 JUL 07 FOR OCONUS COMMANDS. APPLICANTS MAY NOT HAVE LESS THAN 5 YEARS OF SERVICE OR MORE THAN 14 YEARS OF SERVICE AS OF 1 JUL 07.

6. INDIVIDUALS ARE ENCOURAGED TO SUBMIT FOR MULTIPLE PROGRAMS IF THEY MEET THE REQUIREMENTS FOR MORE THAN ONE PROGRAM. WHEN SUBMITTING FOR MULTIPLE PROGRAMS, THE APPLICANT MUST PRIORITIZE THE PROGRAMS FOR WHICH THEY WISH TO BE CONSIDERED. PERSONNEL NOT SELECTED FOR THEIR FIRST PRIORITY WILL BE CONSIDERED FOR EACH ADDITIONAL PROGRAM FOR WHICH THEY APPLIED.

7. MARINES SELECTED WILL HAVE THE OPPORTUNITY TO ATTEND FORMAL SCHOOLS AND PERFORM INTERNSHIPS AT ORGANIZATIONS WITHIN THE NATIONAL SECURITY AGENCY ENTERPRISE. MARINES WILL HAVE THE OPPORTUNITY TO LEARN NEW TECHNOLOGICAL ADVANCES AS THEY RELATE TO SIGINT AND ITS MISSION. UPON GRADUATION MARINES ARE CONSIDERED SUBJECT MATTER EXPERTS IN THEIR RESPECTIVE CRYPTOLOGIC SKILL PROGRAM. ALL MILITARY LANGUAGE ANALYST PROGRAMS ARE DESIGNED TO ENHANCE CRYPTOLINGUISTIC SKILLS THROUGH ADVANCED FORMAL TRAINING AND OPERATIONAL ASSIGNMENTS FOR EACH RESPECTIVE LANGUAGE.

8. APPLICATIONS SUBMITTED FOR ANY OF THE PROGRAMS MUST INCLUDE THE FOLLOWING INFORMATION:

A. NAME, RANK, SSN, MOS(S)

B. DATE OF BIRTH

C. ARMED FORCES ACTIVE DUTY BASE DATE

D. PFT, DATE TAKEN

E. COMMAND E-MAIL ADDRESS

F. PROGRAM(S) APPLYING FOR (IN PRIORITY ORDER) G. EDUCATIONAL BACKGROUND:

1. PME -

A. NONRESIDENT - INCLUDE NAME OF COURSE/YEAR COMPLETED B. RESIDENT - INCLUDE NAME OF COURSE/YEAR COMPLETED/CLASS STANDING (IF KNOWN)

2. MILITARY/GOVERNMENTAL:

A. GENERAL MILITARY TRAINING - INCLUDE NAME OF COURSE/GPA/YEAR COMPLETED/CLASS STANDING (IF KNOWN).

B. CRYPTOLOGIC TRAINING - SAME INFO AS ABOVE.

3. CIVILIAN:

A. HIGH SCHOOL - INCLUDE: PLACE, GPA, FINAL STANDING - IF KNOWN.

B. UNDERGRADUATE CLASSES OR DEGREE - INCLUDE:

INSTITUTION ATTENDED/COURSE NAME/COURSE ID/GRADE/CREDITS EARNED. IF A DEGREE WAS EARNED, SUBMISSION OF A COPY OF DIPLOMA/TRANSCRIPTS IS NOT REQUIRED.

C. GRADUATE CLASSES OR DEGREE (SAME INFO AS ABOVE) H. DLPT SCORE AND DATE TAKEN (FOR ALL 267X MARINES APPLYING).

I. CRYPTOLOGIC DUTIES. CHRONOLOGICALLY LISTED-INCLUDE 2 TO

3 LINES ON WHAT THOSE DUTIES ENTAILED - UNCLASSIFIED INFORMATION ONLY.

J. FAVORABLE MATERIAL - INCLUDE PERSONAL AWARDS AND LETTERS OF RECOMMENDATION.

K. A PHOTO IAW MCO P1070.12 PARA 2002 (PROMOTION PICTURE).

L. PAGE 11 ENTRY WITH OBLIGATED SERVICE REQUIREMENT STATEMENT.

9. THE FOLLOWING CRYPTOLOGIC PROGRAMS ARE AVAILABLE.

(READ: PROGRAM/QUALIFYING MOS/INTENDED RANKS/PROGRAM PURPOSE).

A. MINSAP - MILITARY INTERN SIGINT ANALYST PROGRAM/ANY 26XX WITH THE AMOS OF 2629/SGT-SSGT/DESIGNED TO DEVELOP OUTSTANDING SIGINT ANALYSTS AT THE MID-LEVEL RANK.

B. MCSAP - MILITARY COMINT SIGNALS ANALYST PROGRAM/2621/SGT-SSGT/DESIGNED TO DEVELOP HIGHLY SKILLED COMINT ANALYSTS.

C. MECCAP - MIDDLE ENLISTED CRYPTOLOGIC CAREER ADVANCEMENT PROGRAM/26XX/SGT-SSGT/DESIGNED TO PROVIDE CRYPTOLOGIC SPECIALISTS WITH INDIVIDUALLY TAILORED TRAINING BASED ON THE RESPECTIVE SERVICE NEEDS AND INDIVIDUAL BACKGROUNDS.

D. MOSAP - MILITARY OPERATIONAL ELINT SIGNALS ANALYST PROGRAM/2631/SGT-SSGT/ DESIGNED TO DEVELOP HIGHLY SKILLED OPERATIONAL ELINT ANALYSTS.

E. MCDNOP - MARINE CORPS DIGITAL NETWORK OPERATOR PROGRAM/2621, 2651/SGT-SSGT/DESIGNED TO DEVELOP HIGHLY SKILLED AND EXPERIENCED MARINES TO FILL DIGITAL NETWORK OPERATOR AND ANALYSIS POSITIONS. IT IS RECOMMENDED THAT APPLICANTS ARE GRADUATES OF THE BASIC DIGITAL NETWORK ANALYSIS (BDNA) COURSE.

F. MLAP - MILITARY LANGUAGE ANALYST PROGRAM (ARABIC, CHINESE-MANDARIN, PERSIAN-FARSI, RUSSIAN, OR SPANISH)/2671, 2673, 2674, 2676/SGT-SSGT/DESIGNED TO PROVIDE ADVANCED CRYPTOLINGUISTIC TRAINING AND OPERATIONAL OPPORTUNITIES.

G. YONSEI UNIVERSITY-KOREAN MILITARY LINGUIST PROGRAM; HELD AT YONSEI UNIVERSITY/2673/2741/SGT-SSGT/SELECTEE WILL ATTEND YONSEI UNIVERSITY IN SEOUL, WITH FOLLOW-ON ORDERS, ACCOMPANIED, FOR TWO YEARS IN SEOUL. ALL APPLICANTS FOR YONSEI MUST BE QUALIFIED FOR OVERSEAS ASSIGNMENTS.

10. NOMINATION PACKAGES MUST BE GENERATED IN LETTER FORMAT WITH COMMAND ENDORSEMENTS. NOMINATIONS PACKAGES MAY BE SUBMITTED ELECTRONICALLY BY THE UNITS FINAL ENDORSING AUTHORITY AS AN ADOBE

ACROBAT (.PDF) FILE TO THE HQMC/IOP POC (KARSTA.TOSCANO@USMC.MIL).
ELECTRONICALLY SUBMITTED PACKAGES MUST BE SUBMITTED NO LATER THAN 30
MAR 07. UNITS MAY ALSO SUBMIT HARD COPY PACKAGES TO THIS HQTRS
(I/IOP) POSTMARKED NLT THAN 16 MAR 07 AND MUST ARRIVE BEFORE 30 MAR
07; MAILING ADDRESS AS FOLLOWS:

COMMANDANT OF THE MARINE CORPS
HEADQUARTERS, U.S. MARINE CORPS
ATTN: I/IOP (RM: 3136, MSGT TOSCANO)
2 NAVY ANNEX
WASHINGTON, DC 20380-1775

AN EXAMPLE NOMINATION PACKAGE CAN BE PROVIDED BY THE POC UPON REQUEST.

11. ALL APPLICANTS MUST NOTIFY THE MONITOR PRIOR TO SUBMITTING THEIR
NOMINATION PACKAGES TO THIS HQTRS.

12. UPON RECEIPT OF A NOMINATION PACKAGE, AN E-MAIL WILL BE SENT TO
THE ORIGINATING COMMAND BY HQMC/IOP ACKNOWLEDGING RECEIPT AND STATUS
OF THE NOMINATION PACKAGE.

13. COMMANDS REQUESTING AN EXTENSION TO THE APPLICATION DEADLINE DUE
TO OPERATIONAL COMMITMENTS, MUST DO SO PRIOR TO 9 MAR 07.
PACKAGES RECEIVED AFTER 30 MAR 07 WILL NOT BE CONSIDERED EXCEPT IN
THOSE CASES WHERE EXTENSIONS HAVE BEEN GRANTED.

14. PROGRAM SELECTEES WILL BE NOTIFIED BY MARADMIN.//

Operational Performance Simulation™

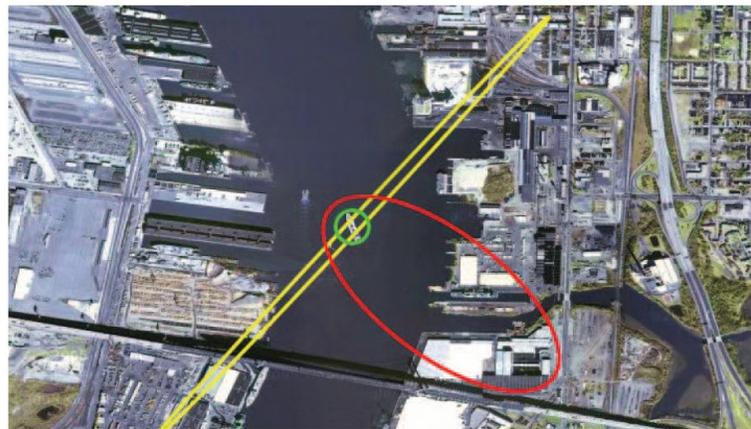
Analysis Tool for RF Emitter Geolocation Test

APPLICATIONS

- ▶ Cross-mission / cross-platform geolocation receiver performance analysis
- ▶ Error budget validation
- ▶ Specification verification
- ▶ Trade-off studies
- ▶ Intercept system performance vs. specific emitters
- ▶ Future architecture studies
- ▶ Mission planning and post-mission analysis
- ▶ Analysis of existing or candidate receiver architectures

KEY FEATURES

- ▶ Mission-level signals intelligence geolocation analysis tool
- ▶ Proven using real world intercept data
- ▶ Passive receiver processing types: TDOA, FDOA, AOA Interferometer, AOA Monopulse
- ▶ Error budget: random and bias errors
- ▶ Multiple receiver platform types in any conceivable combination or geometry, at any altitude
- ▶ Outputs include elliptical and circular error probabilities (EEP and CEP)
- ▶ Stationary or moving emitters (comms or radar), located on DTED terrain, ships, or aircraft.



Real-world geolocation analysis on the test bench: the OPS simulation provides geolocation accuracy estimates for RF receiver / intercept systems against both radar and communications emitters.

OPS OVERVIEW The Operational Performance Simulation (OPS) is an advanced computer simulation that provides geolocation accuracy estimates for radio frequency (RF) receiver / intercept systems against both radar and communications signal sources. OPS allows an analyst to evaluate the geolocation performance of single or multiple airborne or spaceborne collection platforms. With OPS, collection platform geolocation performance (using a variety of receivers and processing techniques) can be assessed against a wide variety of terrestrial or airborne emitters.

Candidate receiver architectures can be evaluated at any stage in their lifecycle. OPS facilitates trade-off analyses during concept definition, assessment of real versus anticipated performance during initial operational test and evaluation, and performance analysis after deployment. Post-deployment, OPS is commonly used to investigate a receiver's capabilities versus the latest generation emitters, or to determine a degraded system's performance against existing emitters.

Operational Performance Simulation™ Specifications

SYSTEM SPECIFICATIONS

Basic OPS Scenario Inputs

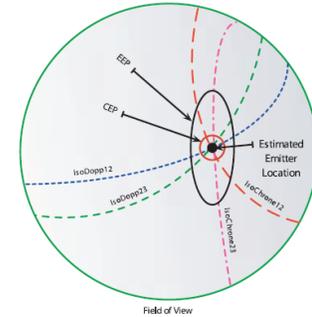
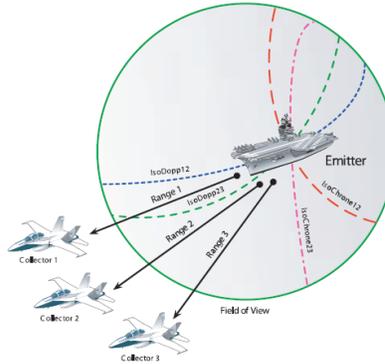
- Parameter measurement type
 - » TDOA and FDOA combined
 - » Time Difference of Arrival (TDOA) only
 - » Frequency Difference of Arrival (FDOA) only
 - » Angle of Arrival (AOA)
 - » Phase Interferometer
 - » Phase/Amplitude Monopulse
- Minimum number of collection platforms
- Environment error budget contributions
- Covariance processing options

Collection System Characteristics

- Low- and high-altitude airborne platforms
- Single or multiple systems with single or multiple platforms in each system
- Subsystem components
 - » Receiver types
 - » Crystal video
 - » Superheterodyne
 - » Digital
 - » Receiver characteristics
 - » Receiver antenna pattern
 - » Analytically generated patterns
 - » Measured patterns (data file)
 - » Area of interest (AOI) scan/tracking
 - » Yaw, pitch and roll attitude and spin rates
- Position and velocity propagation elements, attitude and their knowledge uncertainties
- Error budget: random and bias errors
- Ground station(s) and relay characteristics

Emitter Characteristics

- Emission characteristics
- PRF (ELINT) or baud rate (COMINT)
- Scan rate or message duration
- Frequency and power
- Antenna Pattern
 - » Analytical models
 - » Sidelobe tapering
 - » Measured power patterns
 - » Horizontal and vertical beamwidths
- Polarization
- Scan pattern characteristics and restrictions
 - » Mechanical scan types
 - » Electronic scan types
 - » Radar antenna tracking of aircraft
 - » Comms antenna tracking a satellite
- Operational characteristics (emissions control)
- Horizon elevation angles based on DTED
- Position, velocity, uncertainties and maneuver schedule



Detailed simulation parameters allow realistic estimates of geolocation accuracy.

The OPS simulation provides geolocation accuracy estimates for RF receiver / intercept systems against both radar and communications emitters.

OPS Outputs

- OPS output file
 - » Systems participating in a report
 - » Collecting platforms participating in a report, corresponding to the intercept burst or snapshot data
 - » Intercept date
 - » Intercept time
 - » 95% semi-major/semi-minor axes
 - » Orientation angle
 - » Duration
 - » Number of bursts
 - » Number of seconds for intercept
- Output data analyzed for plotting histograms
 - » 95% EEP semi-major axes
 - » 50% circular error probability (CEP)
 - » EEP area
 - » Time to a given geolocation accuracy (PGI)

Minimum System Requirements

- Intel-based PC: Dual Pentium, 3 GHz CPUs
- 1 GB RAM
- 80 GB HD
- Microsoft Windows 2000/XP
- Analysis: Microsoft Office

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Corporate Headquarters

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(MM05-019, rev. 06-05)



Founded in 1997, Paragon Dynamics, Inc. (PDI) is a wholly owned subsidiary of Zaneb Government Solutions; (NASDAQ ZANE) and is a small business with headquarters in Aurora, Colorado. PDI provides innovative systems engineering and software solutions to a variety of Department of Defense and Aerospace clients.

Professional Engineering Services

Paragon Dynamics, Inc. has the advanced engineering expertise to ensure customer business objectives are met or enhanced through the proper implementation of processing, operations, and analysis of SIGINT to the Intelligence Community. From IT and Satellite system concepts and functional requirements, through design and development, to installation and commissioning, PDI delivers the right engineering solutions that directly support tactical and strategic business objectives of the Intelligence Community.

We are strategically located in major defense and mission operational hubs - Colorado, Georgia, Texas, Hawaii, California, and the Washington, DC beltway area - to completely serve our customer segments.

ENGINEERING SERVICES

PDI is poised to support all National System Programs;

Intelligence, Defense, and Commercial, Space & Ground Programs. Our projects – past and present—include: on-orbit space programs; ground based processing programs; command, control, communication and computer system development programs; intelligence, surveillance & reconnaissance programs; and analysis, design and integration programs.

3025 S. Parker Road Suite 931, Aurora, CO 80014

(303) 636-9494 / (303) 636-1033 Ph/Fax

Paragon Dynamics, Inc., a Zanett Company
Serving America – Protecting Freedom

<http://www.raytheon.com/businesses/riis/iispress/index.html>

[Raytheon] Intelligence and Information Systems

Product Lines

Tactical Intelligence Systems (TIS)

Bill Jones runs TIS where our expertise includes airborne SIGINT sensors, multi-INT ground systems, remote controlled systems technology – we are the world leader for unmanned aerial vehicle ground stations.

Strategic Imaging Systems (SIS)

SIS is run by Jane Chappell in Garland, Texas. SIS has primarily classified programs that support the intelligence community. SIS' capabilities range from space imaging to building large-scale, data processing and exploitation storage architectures to high performance data handling and processing systems. Very exciting stuff.

Space Systems

Our Space Systems product line, led by Chuck Enoch in Aurora, Colorado, has grown the most of any of our product lines last year. Space Systems' business focus is on satellites and the command and control support required for satellites.

Raytheon Information Solutions (RIS)

Raytheon Information Solutions (RIS), led by Ron Ross, is the first in a new class of solutions providers - the Mission Integrator. As a Mission Integrator we work with the government as a partner in achieving mission success, not simply satisfying program requirements. As a strategic partner, we share the expertise, technologies, and approaches developed from a broad base of successful programs, many of them mission-critical, large-scale, and complex.

Operational Technologies and Solutions (OTS)

OTS, led by Guy DuBois in Reston, Virginia, is on the cutting edge when it comes to managing and disseminating mind-boggling volumes of data. We are handling some of largest databases in the government and make a direct, real time contribution to the intelligence community and the other agencies of government.

National Systems

National Systems, led by Steve Hawkins in Garland, is responsible for:

Mission and Resource Management - systems integration and development of mission management, resource management, mission execution and the associated infrastructure for a high-performance, Ground Merged Architecture.

Processing - developing, installing and supporting signal processing and analysis systems.

Information Management and Knowledge Discovery - developing systems that provide the infrastructure and tools for effective information management and knowledge discovery.

Operations, Maintenance, and Engineering Support - systems engineering, factory support and operations and maintenance support.

<http://www.fbcinc.com/event.asp?eventid=Q6UJ9A00AT4U>

FBC Event Description

Event: Buckley Air Force Base

Date: November 16, 2006

Location: Building 706

Aurora, Colorado

Exhibitor fee: \$749.00

General Information

Buckley AFB is an Air Force Space Command base. Buckley AFB defends America through its air operations, space-based missile warning capabilities, space surveillance operations, space communications operations and support functions. Buckley AFB is unique in that it supports 38 tenant units located on and off base.

This expo is hosted by the 460th Space Communications Squadron. The mission of the 460th Space Wing is to provide combatant commanders with superior global surveillance, worldwide missile warning, homeland defense and expeditionary forces.

The 460th Communications Squadron manages, operates and maintains control, communications, and information systems in support of the 460th Space Wing and tenant units at Buckley AFB.

One of the largest on-base tenants is the Aerospace Data Facility. The Aerospace Data Facility has become the major U.S.-based technical downlink for intelligence satellites operated by the military, the National Security Agency and the National Reconnaissance Office.

Another tenant, the Defense Finance and Accounting Service (DFAS), located on the Buckley Annex in Denver, Colo., is also one of the largest tenants supported by the 460th Space Wing. DFAS provides responsive, professional finance and accounting services for the people who defend America and currently supports a workforce of more than 1,400 personnel.

The Air Reserve Personnel Center (ARPC), located on the Buckley Annex, is another tenant supported by the 460 Space Wing. The center, comprised of more than 490 personnel, plays a major role in ensuring the nation always has a warrior bank of mission-ready air Guardsmen and Reservists for mobilization and United States Air Force augmentation by providing personnel management and services for its customers.

Other tenants at Buckley also include: Headquarters, Colorado Air National Guard, 566th Information Operations Squadron, Detachment 45, Air Force Technical Applications Center, Detachment 105, AFROTC at University of Colorado, Detachment 801, Air Force Office of Special Investigations, Aerospace Data Facility, Navy Marine Corps Reserve Center, and Combined Task Force.



George Kochaniec Jr. © News/2005

The classified area of Buckley Air Force Base as seen looking west toward Aurora. There are 13,000 military and civilian employees and contractors working at Buckley.

Buckley: Our value to Aurora \$1.1 billion
By David Milstead, Rocky Mountain News
January 17, 2007

Buckley Air Force Base estimates its economic impact on the city of Aurora at \$1,090,906,789, an increase of \$18 million. The figure is for the fiscal year ended Sept. 30.

Nearly 60 percent of that is for pay. The base's annual payroll is \$409.41 million, and an additional \$211.38 million was made by contractors and civilian workers at the base. **There are 13,000 military and civilian employees and contractors working at Buckley.**

The base spent \$79.48 million in construction, including the addition of a second child-development center and an Army aviation support facility.

Buckley uses an economic model to estimate that it "contributed to the creation" of 6,137 jobs in the community, which added about \$290.10 million.

The base also estimated it spent \$70 million on goods and services from local businesses, including \$43.96 million in service contracts, \$12.42 million in health care and \$12.19 million by the commissary.

FINDING OF NO SIGNIFICANT IMPACT ADDITIONS TO AND OPERATIONS OF
AEROSPACE DATA FACILITYBUCKLEY AIR NATIONAL GUARD BASE AURORA,
COLORADO

[EXCERPTS]

1. PROPOSED ACTION

The United States Air Force (USAF) operates the Aerospace Data Facility (ADF) at Buckley Air National Guard Base (ANGB), located in Aurora, Colorado. USAF proposes to modify the ADF to provide additional secure, permanent office and computer operations space. Modification is needed to provide response capability to USAF directives requiring the expansion of ADF's mission and to provide permanent work space for staff currently located in temporary trailers.

ADF is a space tracking and data processing center completely contained within the perimeter fence of Buckley ANGB and located approximately 12 miles east of Denver, Colorado. Main features of the ADF include an operations building (Building 401), radomes housing receiving antennae, a chiller plant, a power plant housing emergency power diesel generators, temporary office trailers, warehouses and other storage facilities, and a recreation complex.

USAF is proposing to add approximately 150,000 square feet to Building 401. This expansion would provide permanent office space for approximately 500 employees, currently located in trailers adjacent to Building 401, and additional computer operations space. Utility modifications proposed to support the addition include adding two 2,500-kilowatt emergency generators to the existing power plant; two 1,000-ton-capacity chillers to the existing chiller plant; tree cooling tower cells adjacent to existing cooling towers; and miscellaneous additions and modifications to integrate additions with existing facilities. Construction, scheduled to begin in late spring 1993, would last approximately 18 months.

Cost for the Proposed Action has been estimated at \$40,000,000.

Alternatives to the Proposed Action that were analyzed were No Action and sitting elsewhere within the ADF complex, outside of the ADF complex but inside of Buckley ANGB, and outside of Buckley ANGB.

The No-Action alternative would eliminate environmental impacts but would adversely affect national security since the ADF would not have computer space needed to meet expanding mission requirements. The sitting alternatives were found to result in operational deficiencies, primarily due to the need for additional construction to duplicate existing ADF support facilities. The additional construction would also result in environmental impacts at least as great as, or greater than, those associated with the Proposed Action.

2. SUMMARY OF ENVIRONMENTAL IMPACTS

Socioeconomic Resources – Construction activities are expected to cause minor impacts to local transportation resources because the activities would be temporary (18 months) and because the

increase (worst-case peak estimate of 400 vehicles per day) would be a small percentage increase in a community population of more than 200,000. Operations would result in little permanent change because the existing staff level (1,300) would remain the same.

3. FINDINGS

Based upon the above discussion and the supporting Environmental Assessment, a Finding of No Significant Impact is made. Copies of the Environmental Assessment of the Proposed Action, dated November 1992, can be obtained from the following:

Department of the Air Force
Headquarters, Air Force Material Command, SMC/CEV
Post Office Box 92960 Los Angeles AFB, CA 90009-2960
Attn: Mr. Daniel Pilson

APPROVED: HQ SMC Environmental Protection Committee

http://www.denverpost.com/headlines/ci_14735509

Federal government cancels plans for office building in Aurora

By Margaret Jackson

The Denver Post

Posted: 03/23/2010 01:00:00 AM MDT

Updated: 03/23/2010 12:32:16 PM MDT

The federal government has canceled plans to build a 350,000-square-foot office building at Gateway Park in Aurora.

Known as Project Keystone, the high-security building was supposed to be occupied by Aerospace Data Facility Colorado, now housed at Buckley Air Force Base. The facility, operated by the U.S. Air Force, provides data to defense and intelligence agencies.

"Headquarters decided that the money could be put to better use for other intelligence priorities," said Rick Oborn, a public-affairs officer with the National Reconnaissance Office, the executive agent for the project.

Fairfax, Va.-based developer Peterson Cos. was about two weeks from breaking ground on the \$125 million building when it was notified the project was canceled, said Bill Smith, senior vice president of the company.

Peterson was planning to buy 64 acres at Gateway Park from the Pauls Corp. and lease the building to the government.

"Once they terminated the project, we had no interest in the land," Smith said. "It was a crusher after spending well over a year at it. A lot of construction jobs would have been filled there."

Dick Hinson, senior vice president of the Aurora Economic Development Council, said large projects such as Keystone are critical to getting the economy back on track.

"It's about creating employment centers and creating opportunities," he said. "Every victory, whether it's a small or large project, is important because it's creating momentum to put us back on solid economic footing."

Margaret Jackson: 303-954-1473 or mjackson@denverpost.com

Read more: http://www.denverpost.com/headlines/ci_14735509#ixzz0j25zkAdh

http://www.denverpost.com/business/ci_13312097

Aurora to get a new federal facility

A 350,000-square-foot office will be built for the Aerospace Data Facility Colorado to handle intelligence work.

By Margaret Jackson

The Denver Post

Posted: 09/11/2009 01:00:00 AM MDT

Updated: 09/11/2009 09:54:43 AM MDT

A Virginia company is developing a 350,000-square-foot office building on 64 acres in Aurora for the federal government.

The Peterson Cos. is expected to break ground in March on Project Keystone, which will be occupied by the Aerospace Data Facility Colorado, the largest tenant at Buckley Air Force Base.

"We're out of space at our facility," said Sharlene Fairbanks-Kyte, public-affairs officer for the agency. "Project Keystone is to augment ADF Colorado."

The site within Gateway Park is bounded by North Walden Street, East 40th Avenue and North Salida Street. [39.7670 N, 104.7743 W]

The Peterson Cos. purchased the ground from the Pauls Corp. Under an agreement reached in April, Peterson will lease the building to the Office of Director of National Intelligence. The National Reconnaissance Office will act as the executive agent for the project, which will be occupied by ADF Colorado.

Fairbanks-Kyte declined to disclose how many employees will occupy the building or the type of work that will be performed there.

"The intelligence community just doesn't say anything," she said.

When the federal government is involved, it's not uncommon to have sketchy details about a project, Aurora Mayor Ed Tauer said. But even private-sector companies working on federal contracts have been known to be secretive.

"I've done groundbreakings where I've said, 'Folks, I have absolutely no idea what you're doing here, but I'm glad you're doing it in the city of Aurora,'" Tauer said. "At a time when the whole economy is struggling, this looks to be additional jobs, and that's always a great thing for every community, and we think it's great for the whole region."

The fastest-growing Air Force base in the nation, Buckley has an economic impact on the region of more than \$1 billion a year, making Aurora a major driver in the state's aerospace industry, the Aurora Economic Development Council's website says. The industry employs about 18,000 people in Aurora.

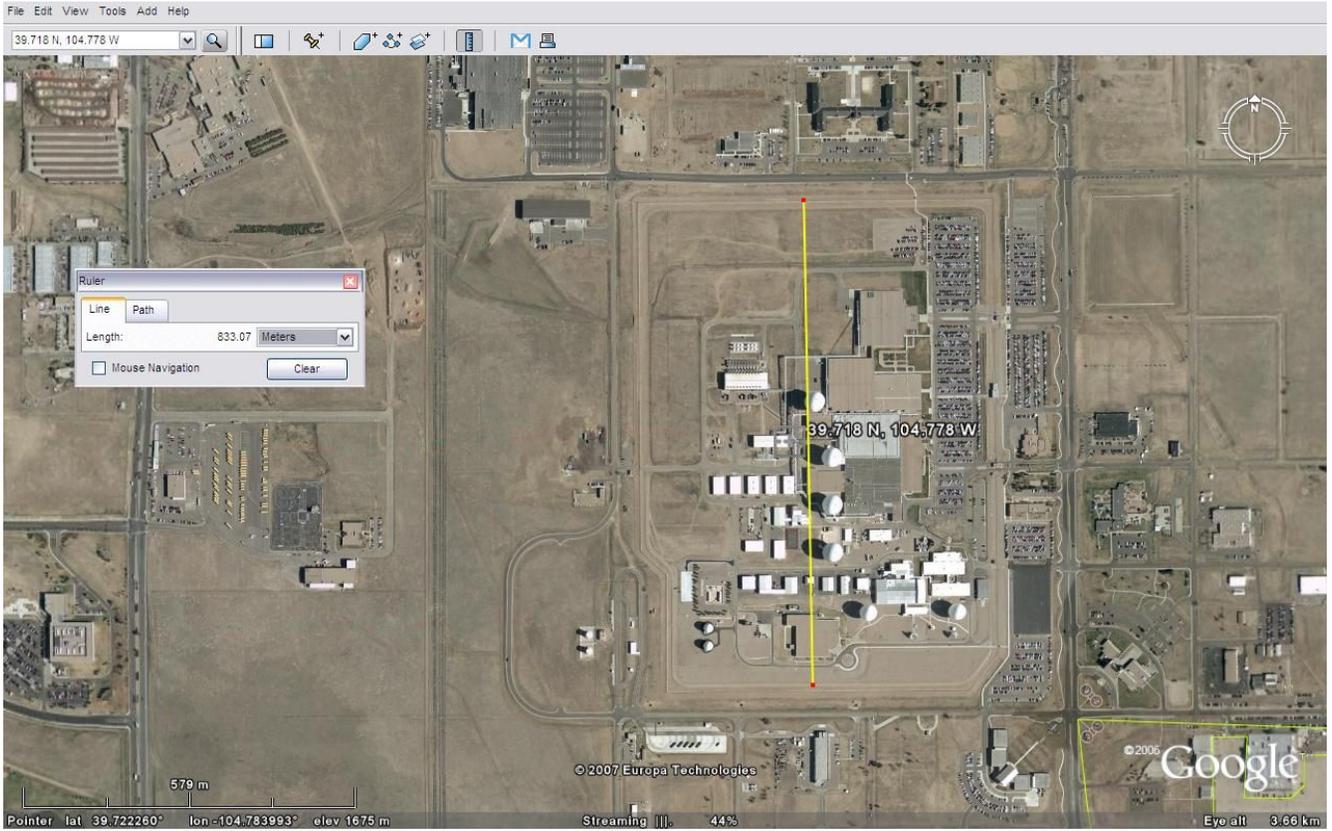
Raytheon Co. is the city's largest private employer, with more than 2,600 workers. Northrop Grumman, Lockheed Martin and the Boeing Co. also have major operations in Aurora.

<http://www.9news.com/seenon9news/article.aspx?storyid=124630&catid=509>

Metro Denver economy receives accolades

Jennifer Ryan 20 hrs ago [2009-10-07]

Developers will break ground next March on Project Keystone, a 350,000-square-foot office building in Aurora that will house the Aerospace Data Facility Colorado. The Data Facility collects intelligence information to support defense operations and has outgrown its current facility at Buckley Air Force Base. Federal officials would provide no further details about the facility or its potential staff count.

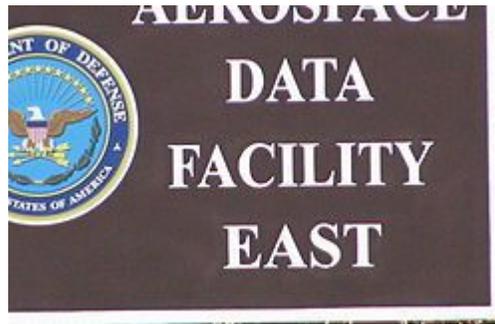


ADF-C, Buckley AFB, Colorado



Aerospace Data Facility-East, Ft. Belvoir, Virginia
(Formerly DCEETA and Area 58)

[http://en.wikipedia.org/wiki/User:Dogue/DCEETA_\(draft\)](http://en.wikipedia.org/wiki/User:Dogue/DCEETA_(draft))



Area 58 has a separate entrance from the main base, accessible from Telegraph Road near its intersection with Beulah Road. The site is wooded, and screened on three sides by hills. A satellite view is available showing the large building near two large radomes oriented on a north south axis.

This is Google's cache of <http://www.afspc.af.mil/outstandingairmenoftheyear/index.asp>. It is a snapshot of the page as it appeared on May 18, 2009 06:17:21 GMT

Capt. Kristin Panzenhagen



Hometown: Andrews AFB, Md.
Chief of mission engineering assigned to the **Aerospace Data Facility-East**, National Reconnaissance Office, Fort Belvoir, Va.

A portrait of Capt. Kristin Panzenhagen in a dark blue military uniform. She is wearing a light blue collared shirt and a dark tie. Her uniform features a name tag on the left chest and a cluster of colorful ribbons on the right chest. The background of the portrait is a grey wall with an American flag visible on the left side.



Pine Gap, near Alice Springs, NWT, Australia

<http://www.niocmd.navy.mil/alicesprings/contacts.asp>



MAILING ADDRESS



MAILING ADDRESS:

Officer in Charge
NIOD Alice Springs
PSC 276
APO, AP 96548

LEADERSHIP

Officer In Charge

- LT CONE
- E-MAIL: niodas@gmail.com

http://www.navycthistory.com/images/navdet_alice_springs.jpg



Sourcebook note: CSG apparently stands for Cryptologic Support Group

<http://www.navycthistory.com/NSGStationsHistory.txt>

The U.S. Naval Security Group Detachment, Alice Spring was established in October, 1998. On September 30, 2005, NSG Det Alice Springs was administratively closed and was re-established on October 1, 2005 as the Navy Information Operations Detachment (NIOD) Alice Springs, Australia. NIOD Alice Springs is subordinate to, and a detachment of, NIOC Ft. Meade, MD.

<http://www.niocmd.navy.mil/alicesprings/>





Menwith Hill, UK

Record Text (**Senate - February 09, 2004**)

Sen. Christopher Bond [R-MO]: Mr. President, I rise today with friends and family to recognize the efforts and dedication of CDR Russell H. Phelps III, an outstanding American. Commander Phelps began his military career in 1908 as an Arabic linguist assigned in Athens, Greece. Working in a national airborne reconnaissance program, he supported U.S. military missions to Lebanon, Egypt, and Saudi Arabia. Honorably discharged in 1985, he graduated Magna Cum Laude from the University of Northern Iowa in 1988 with a Bachelor of Arts in International Relations.

He earned a Naval commission as a Special Duty Officer (Cryptology) upon completion of the Officer Candidate School in September 1988, whereupon he was assigned to the Naval Security Group Activity (NSGA) Rota, Spain. During that tour, he was assigned to the staff of the Commander, Middle East Force, Bahrain, and aboard USS O'Bannon (DD-987) and USS Aubrey Fitch (FFG-34) in support of Operation Earnest Will, the escort of re-flagged Kuwaiti oil tankers in the Arabian Gulf. Between 1989 and 1991, Commander Phelps was additionally assigned to the USS Wainwright (CG-28), USS Baton Rouge (SSN-689), USS Silversides (SSN-679), USS Providence (SSN-719), and to the USS Pittsburgh (SSN-720) during combat support operations throughout Operation Desert Storm.

Commander Phelps next assignment was to the USS Oldendorf, where he served as the Cryptologic Officer, Tactical Action Officer, and for 6 months as the Operations Officer, culminating in his qualifications as a Surface Warfare Officer. Detaching in 1994, he reported to Menwith Hill Station, Harrogate, England, and served as a Deputy Division Chief and member of the Regional Security Operations Center (RSOC) transition team. A plank owner of NSGA Menwith Hill, he simultaneously served in operations and as its first Executive Officer from 1995 to 1996. Commander Phelps next served at the Tactical Training Group Pacific, San Diego, CA, where he provided training to Battle group and warfare commanders in Cryptology, Information Warfare, and space systems operations.

[deletia]

<http://www.inscom.army.mil/MSC/66MI/units.html>



Welcome to the Menwith Hill homepage

Mission Statement

The Menwith Hill Military Intelligence Battalion, as a full partner in a joint, combined, and interagency activity, conducts cryptologic operations, providing resident Army Service Cryptologic Element (SCE) capability in support of Menwith Hill Station, JSSW Digby, and JAC Molesworth's National and Theater support missions For more information please view the Menwith Hill MI BN welcome letter.

Companies that make up the Menwith Hill Station

The Menwith Hill Station is made up of two companies: 404th Company and HHD Company. By visiting this section you will be introduced to the commanders and 1SG's of these two companies.

<http://www.501csw.usafe.af.mil/factsheets/factsheet.asp?id=10607>



501ST COMBAT SUPPORT WING

501st Combat Support Wing Mission

The 501st Combat Support Wing ensures four UK and Norway-based Air Base Groups are resourced, sustained, trained and equipped to exacting command standards in order to provide mission support that enables US and NATO war fighters to conduct full spectrum flying operations during expeditionary deployments, theater munitions movements, global command and control communications to forward deployed locations, support for theater intelligence operations and joint/combined training.

The wing was reactivated May 12, 2005, at Royal Air Force Mildenhall, United Kingdom, to provide better support to seven geographically-separated units in the U.K. The 501st CSW relocated to Royal Air Force Alconbury, United Kingdom, May 1, 2007, to provide greater accessibility between the wing staff and its geographically-separated units.

Organization

[deletia]

421st Air Base Group, Royal Air Force Menwith Hill, U.K.

421st Air Base Squadron

421st Civil Engineer Squadron

421st Security Forces Squadron

[deletia]

<http://www.501csw.usafe.af.mil/units/menwith/index.asp>



The 421st Air Base Group is comprised of three squadrons consisting of 680 US military/civilian and UK civilians. The 421 ABG ensures a full range of civil engineering, security, medical, logistical, community services, personnel, communications, legal, religious, and public affairs services for an installation populace of 4,500 military, civilians, contractors and dependents. The 421 ABG is committed to superior support through a professional work force dedicated to a positive mission-life balance.

713TH MILITARY INTELLIGENCE GROUP



Distinctive Unit Insignia, 713th Military Intelligence Group

DISTINCTIVE UNIT INSIGNIA

Distinctive Unit Insignia. Description: A silver color metal and enamel device 1 1/8 inches (2.86cm) in width consisting of a silver tower between two silver towers masoned and detailed black, superimposed in base by a green triangle charged with a silver lion rampant charged on the shoulder with a black star, all enclosed at bottom by an oriental blue scroll doubled and inscribed "DE COLLE" in silver.

Symbolism: Oriental blue and silver/silver gray are the colors traditionally used by Military Intelligence units. The tower, or fortification, symbolizes strength and defense. The green triangle suggests a hill and, together with the lion, represent **the unit's location in Great Britain at Menwith Hill Station near Harrogate**. The black star symbolizes the military presence in the United Kingdom. The multiple towers highlight the organization's mission as executive agent for The Joint Combined Operations and Installation at Menwith Hall Station. The motto "De Colle" (From the Hills) refers to the unit's location.

Background: The distinctive unit insignia was approved on 17 Jul 1997.

<http://www.afisr.af.mil/news/story.asp?id=123085149>

70th IW Det. 1 becomes 691st Intelligence Group

by Tech. Sgt. Martin Jackson
70 IW Public Affairs

2/6/2008 - MENWITH HILL STATION, United Kingdom -- The 70th Intelligence Wing's Detachment 1, which was stood-up in 2002, became 691st Intelligence Group during an activation ceremony here on Feb. 1.

This change from a detachment makes it the eighth group of the 70th IW, which is the second largest wing in the Air Force.

"Over the past two years our Air Force has undergone some pretty major transformation, and today's group activation is prime example of these changes," said Col. John Stauffer, 70th IW commander. "We are realigning and restructuring to better present our forces to our international, joint and Air Force partners."

Before the ceremonious encasing the Detachment 1 flag and unfurling of the new 691st IG flag, denoting Colonel Paul Laugesen as the first commander of this new group, Colonel Stauffer pointed out why creating this unit benefits Airmen stationed at Menwith Hill.

"Establishing the 691st IG helps us provide our Airmen and their families with better support," said Colonel Stauffer. "As our Air Force gets smaller and more focused and our missions get increasingly more complex we need a system that supports them better."

According to the wing commander, Colonel Laugesen is the right fit to lead this new group.

"When a new unit stands up we highlight the incoming commander's credentials and validations," said Colonel Stauffer. "But today is unique as Colonel Laugesen has already been here and has already proven himself, and he brings an impressive resume with him."

Following the formation of the 691st IG, the 451st Intelligence Squadron, commanded by Lt. Col. Robert Spitznagel, was resubordinated from under the 544th IG in Colorado to fall under the new group as well.

"Today is another milestone for Menwith Hill Station, as we properly align the 70th Intelligence wing and Air Force Intelligence Surveillance and Reconnaissance Agency Airmen that are assigned here," said Colonel Laugesen. "This is a huge step forward for the Air Force cryptologic component here at Menwith Hill Station, as we have worked hard to integrate and make sure that we work as both a team and collaborative group of professionals; posturing us for future success as we go forward with a very challenging mission."

Although structurally they have changed, it is business as usual for the more than 100 Airmen of the 691st IG, who have played an integral part in the global war on terror and are providing communication and intelligence support throughout the world.



COLONEL MICHAEL K. "HOOT" GIBSON

Col. Michael K. Gibson is the Vice Commander of the 70th Intelligence Surveillance and Reconnaissance Wing, headquartered at Fort George G. Meade, Md. As Vice Commander, Colonel Gibson oversees the wing as it integrates national intelligence assets into tactical foreign intelligence and information assurance operations, delivers tailored, timely, full-spectrum intelligence capabilities to national decision makers, theater commanders and war fighters of all services - anytime, anywhere. The wing is composed of the 373rd Intelligence, Surveillance and Reconnaissance Group at Misawa AB, Japan; the 543rd ISR Group at Medina Annex, Lackland AFB, Texas; the 544th ISR Group at Peterson AFB, Colo; the 691st ISR Group at Menwith Hill Station, United Kingdom; and the 70th Mission Support and 70th ISR groups, located at Fort George G. Meade, Md.

Colonel Gibson, commissioned through the Reserve Officer Training Corps in 1982, is a master intelligence officer. In subsequent assignments, he was assigned in Greece, West Berlin, Germany and the United Kingdom, where he served in numerous operational, command and staff positions. Colonel Gibson has commanded three times at the Squadron and Group levels. His previous assignment was as the Commander, 609th Air Intelligence Group and the Director of Intelligence for the United States Central Command Air Forces, Shaw AFB, S.C.

[deletia]

ASSIGNMENTS

1. November 1982 - January 1983, student, Air Intelligence Officer Course, Lowry AFB, Colo.
2. January 1983 - July 1983, student, Signals Intelligence Officer Course, Goodfellow AFB, Texas

3. August 1983 - August 1985, Flight Commander, 6931st Electronic Security Squadron, Iraklion Air Station, Crete, Greece
4. August 1985 - August 1988, Assistant Operations Officer, 6912th Electronic Security Group, Tempelhof Central Airport, Berlin, Germany
5. August 1988 - June 1991, Chief, Plans and Policy, European Electronic Security Division, Ramstein AB, Germany
6. June 1991 - October 1992, Chief, Intelligence Officer Assignments, Air Force Intelligence Command, Kelly AFB, Texas
7. October 1992 - June 1994, Executive Officer to the Vice Commander, Air Force Intelligence Command, Kelly AFB, Texas
8. June 1994 - June 1996, Commander, 68th Intelligence Squadron, Brooks AFB, Texas
9. June 1996 - June 1997, student, Air Command and Staff College, Maxwell AFB, Ala.
10. July 1997 - May 1998, USAF Fellow, National Security Agency, Fort George G. Meade, Md.
11. May 1998 - July 2001, Deputy Chief, Congressional Inquiries Division, Office of the Secretary of the Air Force, Legislative Liaison, Washington, D.C.
12. July 2001- June 2003, Commander, 451st Information Operations Squadron, RAF Menwith Hill, United Kingdom
13. June 2003 - June 2004, student, Air War College, Maxwell AFB, Ala.
14. July 2004 - July 2005, Chief, Strategic Planning Division, Air Intelligence Agency, Lackland AFB, Texas
15. July 2005 to August 2007, Commander 609th Air Intelligence Group and United States Central Command Air Forces, Director of Intelligence (A2)
16. August 2007 to present, Vice Commander, 70th Intelligence, Surveillance and Reconnaissance Wing, Fort George G. Meade, Md.

[deletia]

<http://www.dodig.osd.mil/audit2/90-091.pdf>

INSPECTOR GENERAL
DEPARTMENT OF DEFENSE
400 ARMY NAVY DRIVE
ARLINGTON, VIRGINIA 22202-2884

REPORT
NO. 90-091 June 29, 1990

MEMORANDUM FOR THE DIRECTOR, NATIONAL SECURITY AGENCY/
CHIEF, CENTRAL SECURITY SERVICE
CHIEF, MENWITH HILL STATION

SUBJECT: Report on the Audit of the Morale, Welfare, and
Recreation Fund, Menwith Hill Station, United Kingdom
(Project No. OFA-5001)

Introduction

This is our final report on the Audit of the Morale, Welfare, and Recreation Fund (the Fund), Menwith Hill Station (the Station), United Kingdom. The objectives of the audit were to determine whether the financial statements presented fairly the financial condition and results of operations of the Fund, and to determine whether internal control deficiencies identified in our prior reports had been corrected.

[deletia]

http://www.navycthistory.com/images/marineCO_G_MenwithHill.gif



<http://www.marines.mil/news/messages/Pages/remaining32.aspx>

R 121214Z MAY 04
FM CMC WASHINGTON DC(uc)
TO AL MARADMIN(uc)
MARADMIN
BT
UNCLASSIFIED
MARADMIN 218/04
MSGID/GENADMIN/CMC WASHINGTON DC MRA MM//
SUBJ/AWARDS UPDATE//
REF/A/DOC/CMC MMMA/06NOV2003//
REF/B/DOC/OSD/12SEP1996//
NARR/REF A IS NAVMC 2922, MARINE CORPS UNIT AWARDS MANUAL. REF B IS
DOD 1348.33M, MANUAL OF MILITARY DECORATIONS & AWARDS.//
POC/J. J. ULMER/SGT/HQMC MMMA/-/TEL:703-784-9206
/EMAIL:ULMERJJ@MANPOWER.USMC.MIL//
GENTEXT/REMARKS/1. THE PURPOSE OF THIS MARADMIN IS TO PROVIDE AN
UPDATE OF AWARDS SINCE THE LAST QUARTERLY UPDATE, MARADMIN 516/03.
2. THE FOLLOWING UNIT AWARDS ARE AUTHORIZED AND ARE ALREADY
INCORPORATED IN REF A.

[deletia]

THE NATIONAL SECURITY AGENCY/CENTRAL SECURITY
SERVICE

(PARTICIPATING UNITS)

MARINE CRYPTOLOGIC SUPPORT BATTALION

NSA, FORT GEORGE G. MEADE, MD MCC 800

COMPANY A, MARINE CRYPTOLOGIC SUPPORT BATTALION

BUCKLEY AFB, CO MCC 842

COMPANY B, MARINE CRYPTOLOGIC SUPPORT BATTALION

NSA, FORT GEORGE G. MEADE, MD MCC 802

COMPANY D, MARINE CRYPTOLOGIC SUPPORT BATTALION

GRSOC, FORT GORDON, GA MCC 817

COMPANY G, MARINE CRYPTOLOGIC SUPPORT BATTALION

RAF MENWITH HILL, UK MCC 841

COMPANY H, MARINE CRYPTOLOGIC SUPPORT BATTALION

MRSOC, LACKLAND AFB, TX MCC 818

COMPANY I, MARINE CRYPTOLOGIC SUPPORT BATTALION

KRSOC, KUNIA, HI MCC 819

COMPANY L, MARINE CRYPTOLOGIC SUPPORT BATTALION

SUITLAND, MD MCC 831

SU-1, COMPANY G, MARINE CRYPTOLOGIC SUPPORT BATTALION,

PSC 819 BOX 13 FPO AE (ROTA SP) MCC 828

SU-1, COMPANY I, MARINE CRYPTOLOGIC SUPPORT BATTALION,

NSGA KUNIA, SCHOFIELD BARRACKS, HI MCC TPT

SU-2, COMPANY I, MARINE CRYPTOLOGIC SUPPORT BATTALION
MISAWA, JA MCC 844

SU-1, COMPANY L, MARINE CRYPTOLOGIC SUPPORT BATTALION
PENSACOLA, FL MCC 805

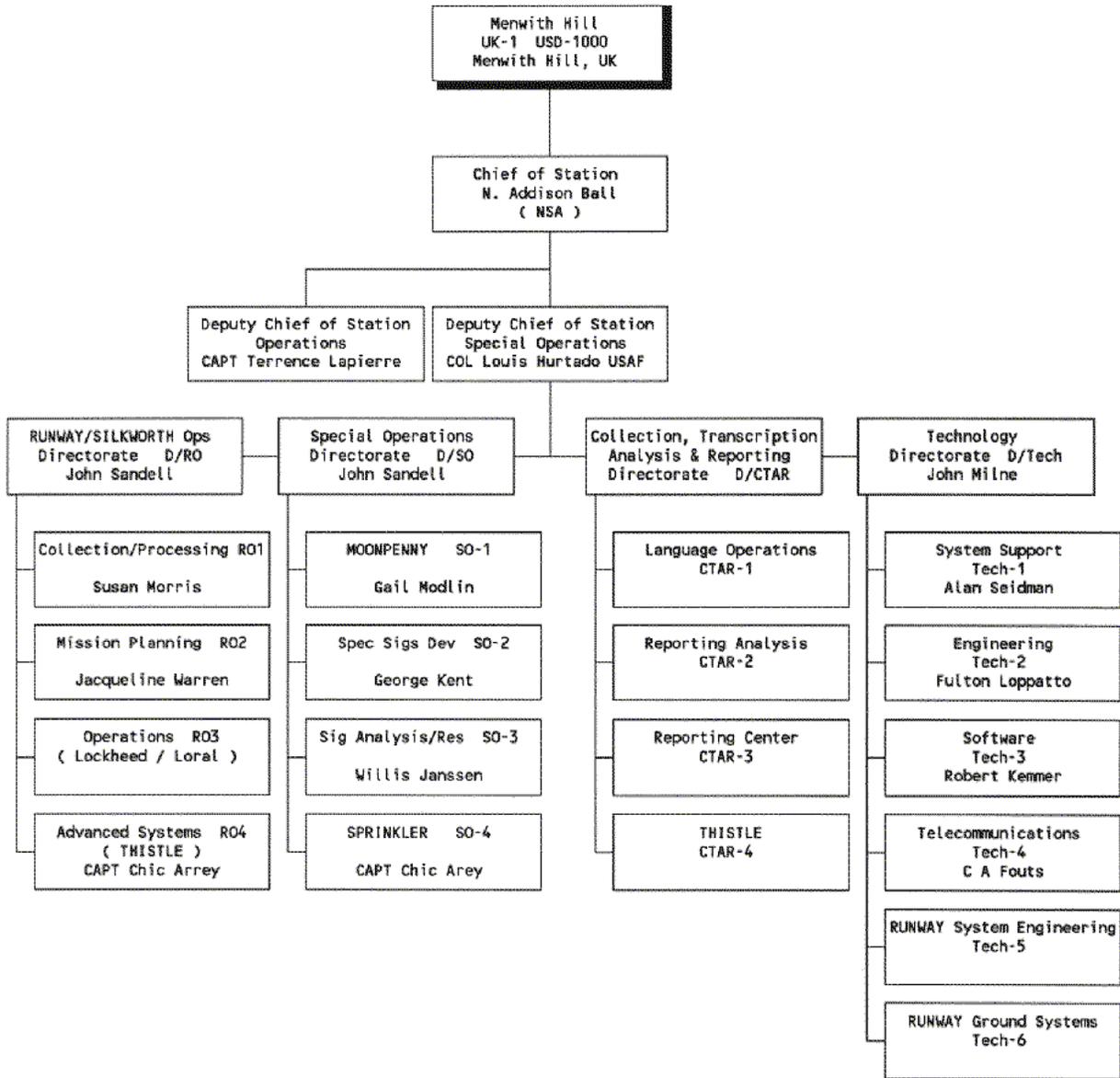
NAVAL SECURITY GROUP DET, CINCLANT FLEET, NORFOLK, VA
MCC 809

NSA/CSS REPRESENTATIVE, PACIFIC REPRESENTATIVE FPO AP
MCC 836

CRYPTOLOGIC SUPPORT GROUP, 7115 SOUTH BOUNDARY BLVD,
MACDILL, AFB, FL MCC TGM

[deletia]

<http://www.fas.org/irp/nsa/menwith.gif>



**Aerospace Data Facility Southwest/
TDRSS Ground Station**

**NRO DIRECTOR OF SECURITY AND COUNTERINTELLIGENCE
NOTE 2008-05**

23 October 2008

**(U) MISSION GROUND STATION DECLASSIFICATION
MANDATORY TRAINING**

(U) The Director, National Reconnaissance Office has decided that all NRO employees are required to complete the MGS Declassification awareness training.

(U) This requirement applies to all NRO components, employees, and badged contractors. In deference to the fact this will be made a requirement in the future for acceptance of visit certifications to Mission Ground Stations (MGSs), all affiliated contractors are strongly encouraged to avail themselves to this training as well.

(U) Effective, 15 October 2008, the "fact" that the NRO has (U) three domestic Mission Ground Stations (MGSs) located near Washington D.C.; Denver, CO; and Las Cruces, NM can be, for the first time, acknowledged as an unclassified fact. These locations have been renamed and should now be referred to as Aerospace Data Facility, East; Colorado; and Southwest respectively.

(U) Furthermore, effective this same date, the NRO's "presence" at RAF Menwith Hill (RAFMH), located near Harrogate, United Kingdom and the Joint Defence Facility Pine Gap (JDFPG), located near Alice Springs, Australia, can be acknowledged as an unclassified fact.

(U) With this change comes a responsibility to stay informed. All employees and affiliates are reminded that you must be aware that program specific information and associations will remain classified and unchanged.

~~(S//TK//NF)~~ The Office of Security and Counterintelligence (OS&CI) has provided many different links to access the training/information from a multitude of locations below:

<http://www.nrosecurity.npa.gov/mgsdeclassification> (NMIS, GWAN)

[http://\(b\)\(1\)\(4c\) mgsdeclassification/](http://(b)(1)(4c) mgsdeclassification/) (JWICS)

This is Google's cache of

http://www.jobcentral.com/jobs/Lockheed_Martin/NM/Systems_Engineer_Stf/010481234/job. It is a snapshot of the page as it appeared on May 18, 2009 05:12:30 GMT.

Systems Engineer Stf Job in New Mexico

Title :

Systems Engineer Stf

Company :

Lockheed Martin

Location :

New Mexico

Date Acquired : 4/22/2009 12:28:17 AM

Date Updated : 5/11/2009 12:18:54 AM

Req ID 121471BR

Industry Job Title Systems Engineer Stf

Standard Job Code/Title E1464:Systems Engineer Stf

Required skills Current ADF-SW site experience

In depth knowledge of site specific activities

Established relationships with Ground and Systems Operation GPOCs

Systems Integration experience

Strong NRO experience

Desired skills Team lead experience

Full Spectrum Leadership attributes and ability

Specific Job Description High visibility position where individual will be a member of the site System Integration team for Program 606 working directly at remote customer location. This position will support approximately 50% Ground and 50% System Operations support. This person will already be located in the southwest region, will have domain experience, and will have established relationships with site customers. The candidate will be a proven team player, have ability to adapt to rapidly changing work environments, possess strong negotiation skills, have proven project management skills, ability to coordinate across multi-int environment with diplomacy and tact, influential with customer as needed to defend the ultimate mission goals, along with being highly organized. Requires full life cycle engineering experience, including transition to operations, with strong analysis skills.

Specific tasks include, but are not limited to: communication and collaboration with SI SO and GEI teams; document update and control; RFC assessment, analyze/assess schedules, requirements/specification development, integration, test and transition, readiness activities, ground processing, ground operations, CONOPS development, experience at the ADF-SW, knowledge/experience with ICDs/specifications for the ADF-SW and ADF-E; coordination with RFC authors for requirements clarification; provide technical assessments for SOERB and GMM ERB; coordinate and conduct design reviews, technical reviews, program management reviews, and other technical forums as required; ability to coordinate across multiple customer domains and contractors; approximately 15% travel with customer to support reviews as needed.

Applicants selected will be subject to a government security investigation and must meet eligibility requirements for access to classified information.

Standard Job Description Performs technical planning, system integration, verification and validation, cost and risk, and supportability and effectiveness analyses for total systems. Analyses are performed at all levels of total system product to include: concept, design, fabrication, test, installation, operation, maintenance and disposal. Ensures the logical and systematic conversion of customer or product requirements into total systems solutions that acknowledge technical, schedule, and cost constraints. Performs functional analysis, timeline analysis, detail trade studies, requirements allocation and interface definition studies to translate customer requirements into hardware and software specifications.

Security Clearance Top Secret/Special Security Requirements

Typical Minimums Bachelors degree from an accredited college in a related discipline, or equivalent experience/combined education, with 9 years of professional experience; or 7 years of professional experience with a related Masters degree. Considered an emerging authority.

LMCareers Business Unit ESS9995 EI GROUP (S0807)

Business Area Info Systems & Global Services

Program P606

Department 8N3D:NPD_ISU-P606 Clin 5 Field_18

Job Class Systems Engineering: Other

Job Category Experienced Professional

State New Mexico

Virtual No

Relocation Available No

Req Type Full-Time

Direct/Indirect Direct



TDRSS Ground Station 32.50 N, 106.61 W



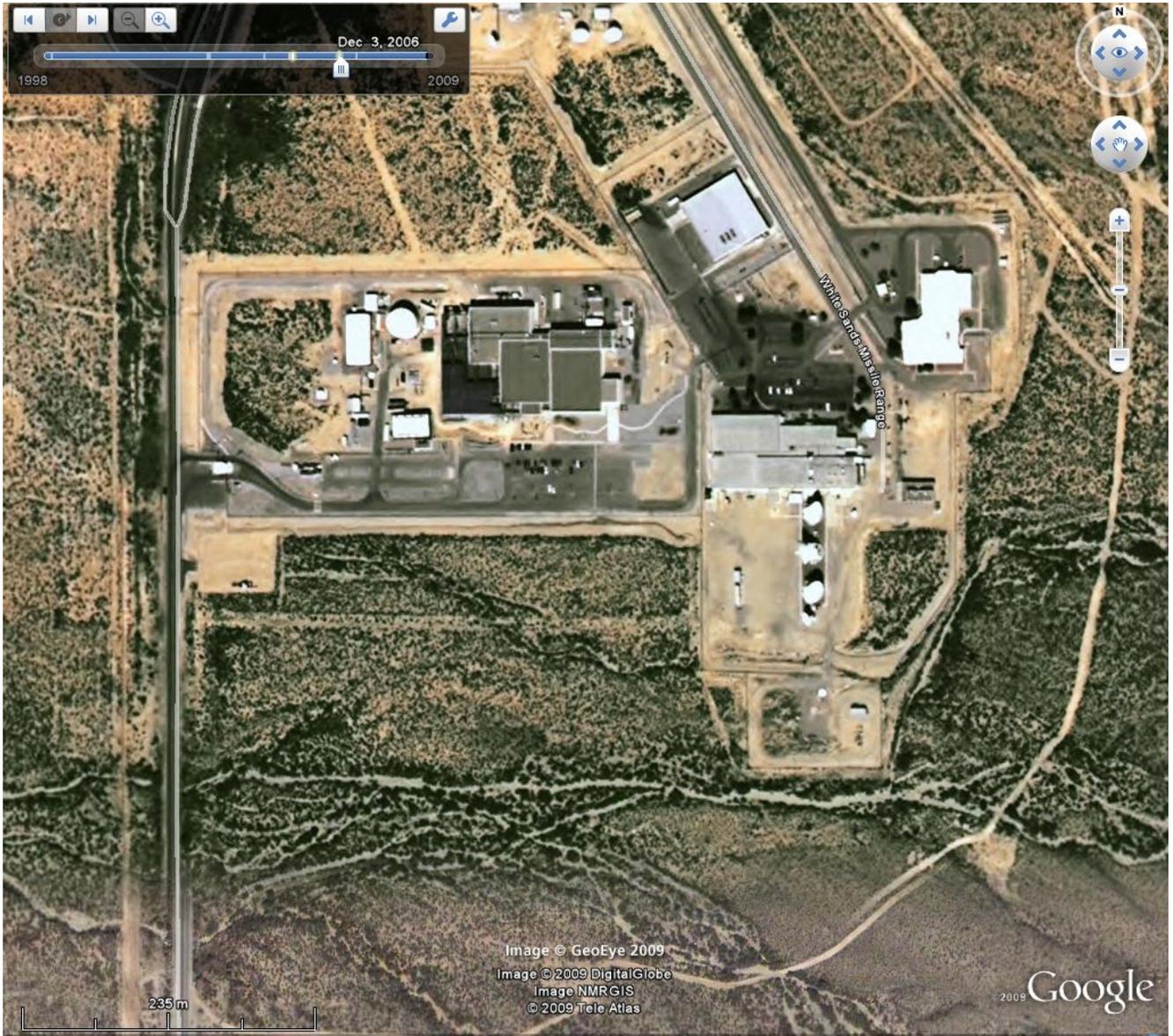
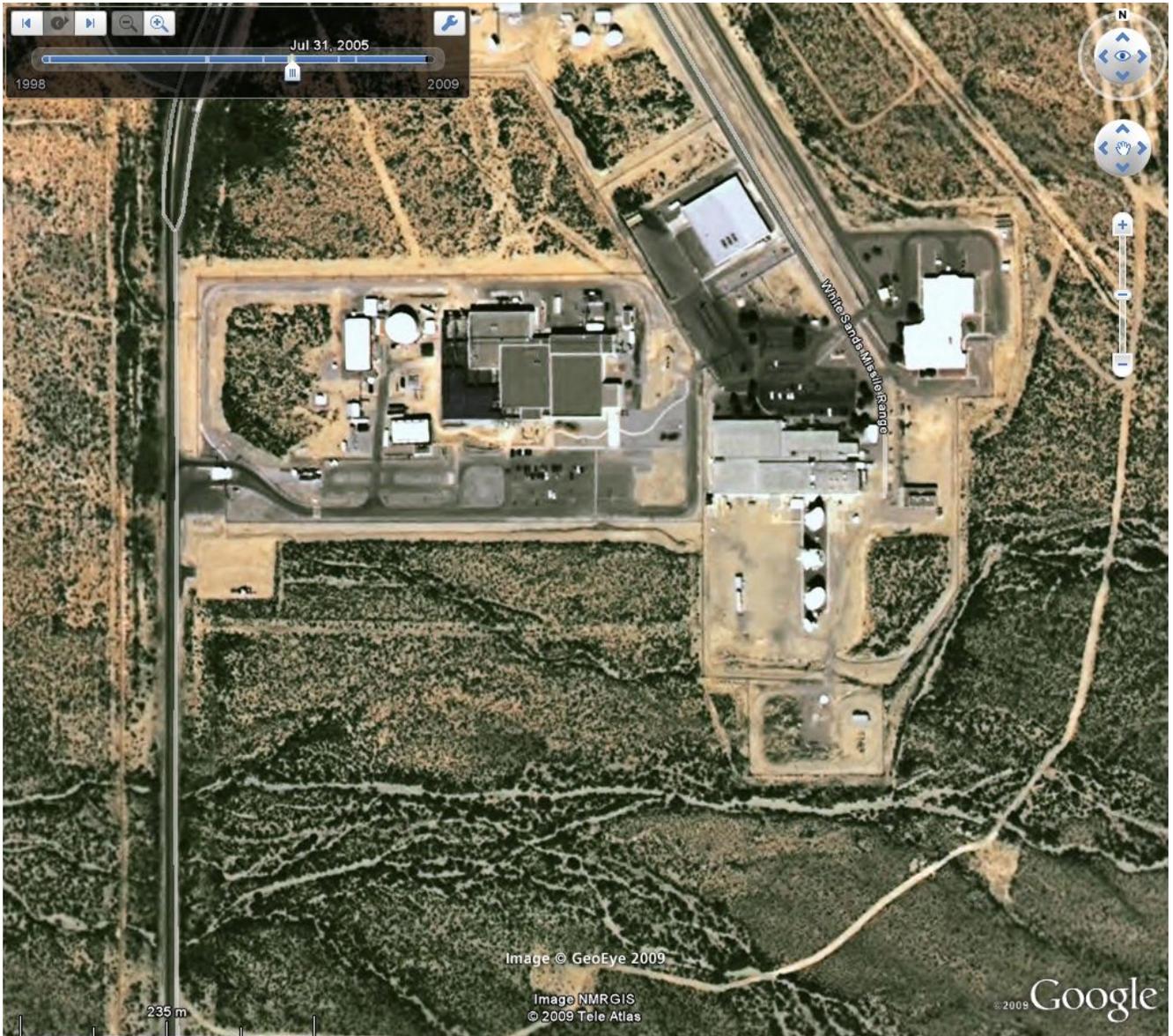


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2009 Google









Mar 30, 2003

White Sands Missile Range

235 m

Image © GeoEye 2009
Image U.S. Geological Survey
© 2009 Tele Atlas

© 2009 Google



Oct 3, 1998

1998

2009

235 m

Image © GeoEye 2009
Image U.S. Geological Survey

© 2009 Tele Atlas

2009 Google

White Sands Water Recharge

May 27, 2007



White Sands Missile Range

Image © GeoEye 2009
Image © 2009 DigitalGlobe

© 2009 Tele Atlas

278 m

2009 Google

Navigation and history controls including a timeline slider showing the date Jul 4, 2005, and years 1996 and 2009.

Map navigation controls including a compass, a hand icon for panning, and zoom in (+) and zoom out (-) buttons.



Image © GeoEye 2009
Image © 2009 DigitalGlobe
© 2009 Tele Atlas

2009 Google

278 m



1996 Mar 9, 2003 2009



278 m

Image © GeoEye 2009
Image U.S. Geological Survey
© 2009 Tele Atlas

2009 Google

White Sands Missile Range

Navigation and history controls including a timeline slider set to Oct 3, 1998, with markers for 1996 and 2009.

Map navigation controls including a compass, a hand icon for panning, and a vertical zoom slider.



Image © GeoEye 2009
Image U.S. Geological Survey
© 2009 Tele Atlas

2009 Google

278 m

Spy Satellites: Entering a New Era

Intelligence agencies are launching a constellation of new reconnaissance satellites with broad military and arms control implications; but can the data be handled?

AFTER WAITING 2 YEARS for the return of the space shuttle, America's intelligence agencies have begun to launch a constellation of new and improved spy satellites. All three of the space shuttle launches since the Challenger accident, including last week's flight of the Discovery, have added important links in this surveillance network.

By the end of 1989, if all goes well, three new reconnaissance spacecraft will be in orbit, collecting unprecedented amounts of information on military targets around the globe. Together, they will mark a new era in the ability of the U.S. government to monitor arms control agreements, locate military targets precisely, and wage war in far-flung parts of the globe.

The first of the new satellites flew into orbit last December aboard the space shuttle Atlantis, according to an account in the industry magazine *Aviation Week* that has been confirmed privately by Administration sources. It is a radically new type of surveillance satellite that uses radar to produce high-quality images of the earth's surface. Although NASA has previously launched similar instruments, called synthetic aperture radars, to study geologic formations and ocean phenomena, this is the first imaging radar to be placed into orbit specifically for military surveillance. First known as Indigo, the satellite's code name later changed to Lacrosse, the name revealed by *Washington Post* reporter Bob Woodward in his book *Veil*.

Later this year, the first two KH-12 spy satellites are scheduled to fly into orbit aboard Titan IV rockets. The KH-12 is the latest and most advanced in a long line of photographic intelligence satellites, which use a powerful telescope aimed at the earth to take pictures using visible light and infrared radiation.

Equally important in this network are the Tracking and Data Relay Satellite System (TDRSS) satellites, the third of which was launched by Discovery last week. Although secrecy surrounds military use of the TDRSS, most observers believe that Indigo-Lacrosse is using the satellite to relay its data flow to earth. The KH-12's images probably will be relayed through TDRSS as well.

TDRSS, in fact, is where NASA's science

missions and the secret world of military reconnaissance come into closest contact. Both the military and the space shuttle are "priority 1" users of TDRSS's communications channels, according to NASA officials. The satellite's capacity is scheduled by computer at the TDRSS ground station, located at White Sands Missile Range, New Mexico.

Lower priority users of TDRSS, such as the Hubble Space Telescope or the Landsat earth-imaging satellites, must submit their requests to use TDRSS without knowing which times are blocked out for the military's use. "You're in an absolutely crazy situation where you have to play guessing games," said Robert Bless, professor of astronomy at the University of Wisconsin, Madison. He is the principal investigator for the high-speed photometer on the Hubble telescope.

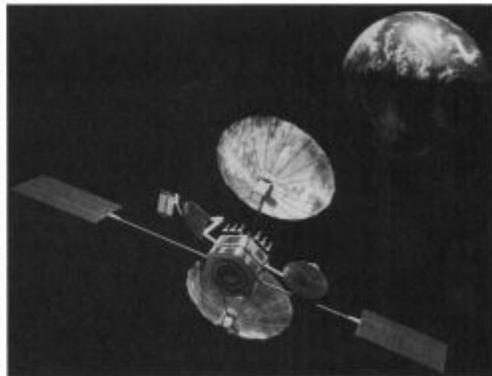
The peak rate at which Hubble's instruments will send data through TDRSS—1 million bits per second (Mbs)—is a mere trickle compared with the flood of data generated by the new spy satellites. Synthetic aperture radars like Indigo-Lacrosse, in particular, tend to swamp any available data relay, because transmission capacity and available computing power, not the radar itself, generally limit the quality and size of the images that the system can produce.

Robert Cooper, former head of the Defense Advanced Research Projects Agency, noted in an interview that a high-resolution radar system, with a resolution of perhaps 1 foot, can generate raw data at a rate of many billions of bits per second—far beyond the capacity of any existing communication links in space. Cooper is now president of Atlantic Aerospace Electronics Corporation.

Reducing the raw data instantly to images—a data stream small enough for TDRSS to handle—would require one of the world's largest supercomputers on board

the spacecraft, said Cooper. A more likely way of getting around the data bottleneck is for Indigo-Lacrosse only to operate intermittently, storing bursts of data on recorders. These devices could then transmit the data at a slower rate through TDRSS to earth.

NASA plans to launch its own imaging



The TDRSS satellites, one of which was launched last week by the space shuttle, play a key role in relaying data from spy satellites.

radar as part of its Earth Observing System (EOS) sometime in the late 1990s. The instrument will detect objects roughly 30 meters across in a swath 50 kilometers wide, with less detail when the swath is expanded to its maximum width of 700 kilometers. The data rate of its transmissions is limited to 300 Mbs, the maximum capacity of one of TDRSS's two high-capacity channels. "The data rate limits everything. It limits resolution, gray scale accuracy, and field of view," said one of EOS's designers at NASA's Jet Propulsion Lab.

Because Indigo-Lacrosse's performance is limited by the capacity of TDRSS, the pictures it furnishes probably are less detailed than those from optical systems like the KH-12, which can detect objects only a few inches across. According to John Pike of the Federation of American Scientists (FAS), the new radar satellite probably can detect objects as small as 1 meter across, since that level of detail is necessary to identify important items such as mobile Soviet missiles.

The radar's crucial advantage, however, is its ability to see through the clouds that generally hide much of the Soviet Union and Europe from optical remote-sensing satellites such as Landsat and the KH-12. An all-weather capability "opens up entire new worlds," said Cooper, who, like other former government officials interviewed for this article, refused to confirm Indigo-Lacrosse's existence.

Compared to the novelty of Indigo-Lacrosse, the KH-12 is practically a known quantity. In fact, it probably bears a strong resemblance to the Hubble Space Telescope, since both were built to fit inside the shuttle bay. The primary mirror (and therefore the power) of the KH-12's telescope can be little larger than Hubble's.

As a comparison, a telescope with Hubble's power in an orbit 200 nautical miles above the earth could detect objects on the earth's surface 7 inches across. According to Pike and Jeffrey Richelson of the private National Security Archive, the KH-12 carries a large quantity of fuel that it can use to maneuver in space, so that it could dip down to a low 100-mile orbit in order to see details half as large. In order to counter the distortions caused by the earth's atmosphere, spy satellites use computer-controlled "adaptive optics" that vary the surface of its mirror minutely.

Detecting ever smaller objects, however, is no longer the key to more effective spying from space, according to reconnaissance specialists. The greatest technical challenges now lie in programming high-speed computers to unearth valuable information buried in the mountain of data.

"In the past, the problems have been mostly connected with sensing the data. Now, they are more in filtering and interpreting it," said Thomas Rona, who moved from the Department of Defense to be



Edward Aldridge: Better space-based surveillance capability is needed to target mobile Soviet missiles and command centers.

deputy director of the White House Science Office in 1986.

"You have to filter it in terms of geography, but also in terms of targets that are interesting," said Rona. "Humans used to do this—photo interpreters. Now there are attempts to automate it."

Technical experts for the Central Intelligence Agency, the Pentagon, and the National Reconnaissance Office now are struggling to harness computers to the task of filtering out valuable information from the deluge of data sent down from space. Computers, says former Air Force Secretary Edward (Pete) Aldridge, eventually may help solve a typical dilemma confronting intelligence analysts: "Somewhere in that data there is a target. Now, how do you find it . . . unless you take the population of the United States and make them photo interpreters?" Aldridge is now president of McDonnell Douglas Electronics Corporation.

The sheer volume of data streaming down through TDRSS, threatening to overwhelm even armies of analysts, is one source of pressure to automate the interpretation of photographic intelligence. But skyrocketing demands on the reconnaissance system are even more important.

Rather than simply monitor known sites, such as missile silos and airfields, satellites now are required to find and track Soviet nuclear missiles that move about from day to day. This will be necessary to verify future arms control treaties, but the Air Force also has a more frankly military aim: targeting the missiles for destruction in wartime.

"As we see [Soviet] leadership and military forces becoming more mobile, it's putting more demands on us to detect, localize, and hold at risk those forces," said Aldridge. "The biggest difficulty is not searching the target area. Even if the sensor has flown over the target, and it is in the database, it still has to be found."

Computers can search the data from a wide area, looking for an electronic signal that matches the known return from a Soviet missile launcher. But while simple in concept, teaching computers to recognize an object—particularly when the Soviet Union is also trying to hide the targets under cover and behind trees—has proved difficult in practice. "We're still 5 years away from the point where some data comes in and rings a bell and says I've got a target X in location Y," said Aldridge.

The most valuable contribution of computer analysis, said Rona, may be in matching up information from various sensors, so that one instrument can correct the other's blind spots. While the KH-12 might be fooled by a plastic decoy built to look like a tank, for instance, the radar of Indigo-La-

Culliton Named to New Post

Barbara J. Culliton, News Editor of *Science* for the past 10 years, has decided to return to her first interest—reporting. She has accepted a newly created position at *Science* as Correspondent-at-Large, which will give her wide latitude in the choice and writing of news and features for the magazine. During her editorship, the News section has received many distinguished prizes, including the George Polk Award for the "lucidity and pertinence" of News and Comment.

crosses could immediately tell the difference. "All sensors lie a little," said Rona. "The reason that you coalesce information from all sorts of sensors is that you don't trust any of them." Attempts to write computer software capable of comparing and evaluating data from many different sources, however, have run into significant problems. Military sources estimate that working prototypes of these "data fusion" systems will not be available for several years.

Complicating the job even more is the growing demand for access to data from satellites. Not only the President, but every major U.S. military commander around the world can now request pictures from satellites to help plan military operations.

The trend began nearly 10 years ago, when the armed forces started a program called TENCAP (Tactical Exploitation of National Capabilities) aimed at making information from space reconnaissance available to military commanders. Although an Army spokesman refused to provide any information on TENCAP, calling the program "100% classified," it has been discussed frequently at congressional hearings.

In 1981, the Marines established a TENCAP elective at their staff college, said Lieutenant General Harry T. Hagaman (retired), former Director of Intelligence for the Marine Corps. "We opened that magic door . . . and many eyes were opened to what was actually out there," said Hagaman. "As you continue to educate people about what's available, you build up enthusiasm . . . and ways begin to be developed on how to break down some of the old national barriers [preventing] some of this very fine information [from being] sent lower down [the chain of command]."

The primary barrier to wider use of satellite data, said Hagaman, has been secrecy. But under the pressure of crises, such as the

military operations in Beirut and the Persian Gulf, decisions were made to distribute information that had been held very tightly by intelligence officials in Washington. "It takes a commander in the field screaming for more information to get things to change," said Hagaman.

"Most of the imagery is declassified down to the level where it's just handled as 'secret,'" said Donald Latham, former Assistant Secretary of Defense for Command, Control, Communications, and Intelligence. "We can move imagery today, worldwide, with our communications systems. We've even got suitcase versions of these systems, where you can look at [an image] and do things with it—all with soft copy, without film."

It now takes only hours, said several sources, for a picture of a particular scene to get from the satellite to the military commander who ordered it. In the future, said Aldridge, field commanders may be able to look at a scene at the very moment that the satellite is photographing it.

These technical marvels have their price. "Data fusion systems are not cheap," commented Aldridge. According to the industry newspaper *Defense News*, the Army has spent somewhere between \$840 million and \$1 billion during the past decade on a single system, called the All Source Analysis System, that is designed to distribute information from various intelligence sources to Army commanders. Primarily because of problems with software, "it's 2 or 3 years, and a couple of hundred million dollars away," said Hagaman.

According to published reports, the White House has agreed to a demand by the Senate Intelligence Committee that it spend \$6 billion on improving surveillance systems during the next 5 or 6 years. The FAS's Pike estimates that each KH-12 satellite costs between \$1.5 and \$2 billion, not including the cost of launch.

The irony of spending this quantity of money on spy satellites while cutting off funds for Landsat, the civilian earth resources monitoring satellite, was noted by Congressman Dave McCurdy (D-OK), a member of the House Intelligence Committee, which approves all secret reconnaissance projects. At a hearing on Landsat on 8 March, McCurdy complained that "the green eyeshade guys down in a basement [at the White House Office of Management and Budget] are running national space policy. If [Landsat] were a special access program, we wouldn't be up here worrying about funding." ■ DANIEL CHARLES

Daniel Charles is a free-lance journalist based in Washington, D.C.

DOD Lists Critical Technologies

The Department of Defense (DOD) has submitted to Congress a list of 22 technologies that it considers critical to the long-term superiority of U.S. weapons systems. In every area except one, the United States holds a lead over the Soviet Union, and in most cases the lead is substantial, according to the Pentagon's analysis. But among U.S. allies, technological leadership in some key areas has gone to Japan.

The list was prepared in response to legislation authored last year by Senator Jeff Bingaman (D-NM), who says he has grown increasingly frustrated because "technologies that seemed to be on everybody's list of truly critical technologies were severely underfunded in DOD [budget] requests." That experience, says Bingaman, "left a real question in my mind as to whether we had a very well prioritized science and technology program in the DOD."

Bingaman therefore attempted to force the Pentagon to consider its technological priorities by asking DOD, together with the Department of Energy, to list 20 technologies deemed especially critical for future weapons systems. (The Pentagon came back with a list of 22.) He also asked for an assessment of where the United States stands in relation to other countries in the development and use of these technologies.

The Pentagon's report* could prove important in budget deliberations on Capitol Hill. It has already been the focus of hearings, held on 17 March, by the Senate Armed Services Committee's defense industry and technology subcommittee, which Bingaman chairs.

The report indicates that the United States holds a clear world lead in technologies that have primarily military applications, such as sensitive radars and "stealth" technology. But in most areas that also have civilian applications, the United States is losing ground to allied countries.

In the area of microelectronic circuitry and the fabrication of microelectronics devices, for example, the report states that "if current trends continue, the United States can be expected to become dependent on Japanese suppliers of many key materials and production equipment by the year 2000." The same holds true for gallium arsenide semiconductors, a technology in which "Japan is the undisputed leader," fiber optics, and some areas of materials science.

As for the Soviet Union, the report indicates that the United States is technologically superior in all the key areas except for high-power microwave oscillators. In most cases, the Soviet Union's relative backwardness in state-of-the-art computing is a severe handicap. "In the USSR, software continues to be an area of serious deficiency," the report says, and "there is no evidence that the Eastern bloc has achieved any success in high-performance computing. . . . The Soviets lag the U.S. and can be expected to fall further behind due to a lack of capability in the underlying microcircuitry." These deficiencies affect Soviet capabilities in areas as diverse as robotics and fluid dynamics, the report says.

The report estimates that DOD will spend a total of about \$2 billion this year on R&D involving 21 of the 22 key technologies it identified. (The budget for one technology—suppressing the radar signature of weapons systems—is classified.) In some areas, such as the development of sensitive radars and computer modeling, the Strategic Defense Initiative (SDI) provides the bulk of the funding. This led Bingaman to suggest that perhaps Congress should move some of the programs out of the SDI budget in order to protect them when the SDI request is cut back by Congress.

The critical technologies identified by the Pentagon are: microelectronic circuits and their fabrication; the preparation of gallium arsenide and other compound semiconductors; software producibility; parallel computer architectures; machine intelligence/robotics; simulation and modeling; integrated optics; fiber optics; sensitive radars; passive sensors; automatic target recognition; phased arrays; data fusion; signature control (stealth technologies); computational fluid dynamics; air-breathing propulsion; high-power microwaves; pulsed power; hypervelocity projectiles; high-temperature, high-strength, lightweight composite materials; superconductivity; and biotechnology materials and processing. ■ COLIN NORMAN

*The Department of Defense Critical Technologies Plan, 15 March 1989.



Review of the Space Communications Program of NASA's Space Operations Mission Directorate

Committee to Review NASA's Space Communications Program, National Research Council

ISBN: 0-309-66447-0, 98 pages, 8 1/2 x 11, (2006)

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INTRODUCTION

The Space Network is a major element of the Space Operations Mission Directorate's (SOMD's) space communications program. It consists of a constellation of Tracking and Data Relay Satellite System (TDRSS) communications satellites and a series of ground tracking and relay stations to provide services to NASA, other government agencies, and commercial and international customers 24 hours per day, 7 days per week (Figure 2.1).

The Space Network's mission is to "provide global coverage tracking and data acquisition services during launch, early orbit, and operations in low Earth orbit, and satellite anomaly investigation via a constellation of geosynchronous satellites, and associated ground systems located in New Mexico and Guam."¹

Since the 1980s, NASA has operated the TDRSS to provide communications links between Earth and low-Earth-orbiting satellites at S-, Ku-, and Ka-band frequencies. The TDRSS satellites are located in geosynchronous Earth orbit and are positioned in orbital locations that are in constant view either of the White Sands Complex (WSC) at NASA's White Sands Test Facility in New Mexico, or of NASA's Guam remote ground terminal (GRGT). The assigned orbital locations provide continuous or full-period telemetry, tracking, and command coverage for near-Earth-orbiting satellites.

The original TDRSS constellation was intended to provide three fully operational satellites, one in the East (or Atlantic region) at 041 degrees West longitude, one in the West (or Pacific region) at 171 degrees West longitude, and a fully functional spare at 079 degrees West longitude. The baseline configuration is depicted in Figure 2.2. Over the years the robust performance of the TDRSS satellites, as well as additional loading requirements, resulted in NASA's expansion of the system and the use of more spacecraft.

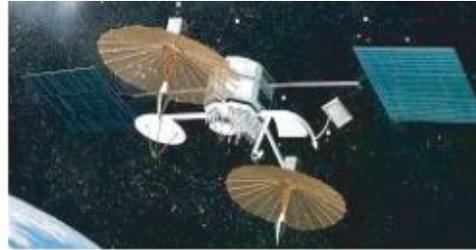
The current TDRSS constellation consists of six first-

generation (F1 and F3-F7) and three second-generation (F8-F10) satellites, with three of the nine satellites being stored on orbit. The first-generation spacecraft support three categories of service: single access, multiple access, and tracking at the S and Ku bands. The second-generation spacecraft added Ka-band forward and return services in addition to the S- and Ku-band capabilities. Figure 2.3 depicts the current TDRSS constellation orbital placement, Table 2.1 gives the launch dates, and Figure 2.4 indicates the overall health of the TDRSS constellation. Figure 2.5 shows projected TDRSS constellation capacity based on failures experienced to date and long-term reliability models. The lower portion of Figure 2.5 shows anticipated user demand for service (hours per day), representing in excess of 60 different missions through 2017. The on-orbit health issues reflected in Figure 2.4 have had limited impact on tracking and data relay services at this time due to built-in redundancy and operational rescheduling. Specific failure trends are closely monitored and used in individual satellite as well as constellation end-of-useful life projections.

The TDRSS satellites are controlled through the WSC and the GRGT. The WSC consists of two functionally equivalent ground terminals that provide network scheduling and command and control of the TDRSS satellites, as well as serving as the relay points for customer data to the necessary control and data collection centers. The GRGT is used to support the TDRSS satellite located at 085 degrees East longitude (275 degrees West) and the customer satellites serviced through that relay. Major ground system upgrades were completed in 1994 (second TDRSS ground terminal) and 1996 (White Sands ground terminal upgrade). The GRGT became operational in 1998, expanding system capability to global coverage for near-Earth missions. A Space Network expansion project is under way to add up to two additional ground terminals to increase available TDRSS capacity. For more than 20 years, the Space Network has supported a wide variety of near-Earth missions, including

The Space Segment—9 Satellites

- 5 operational
- 3 in storage
- 1 residual (dedicated to the National Science Foundation)



The Ground Segment

- **White Sands Complex**
 - White Sands Ground Terminal
 - 2 Space-Ground Link Terminals
 - Second TDRSS Ground Terminal
 - 3 Space-Ground Link Terminals
 - Data Services Management Center
 - Scheduling
 - Monitor and control
- **Guam Remote Ground Terminal**
 - 1 Space-Ground Link Terminal

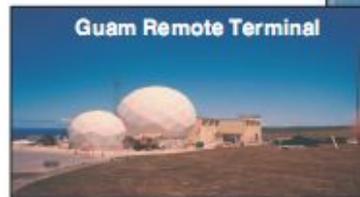


FIGURE 2.1 NASA's Space Network, comprising the TDRSS space segment and a ground segment. SOURCE: Ken Ford, NASA, "Space Network," briefing to the NRC Committee to Review NASA's Space Communications Program, Washington, D.C., January 26-27, 2006, p. 6.

scientific, environmental, and human spaceflight missions, as well as launch vehicles and other non-NASA efforts. This capacity for global coverage and connectivity is expected to continue and expand as NASA defines future science and exploration missions. Planning for Space Network continuation apparently has started, but no details were available for assessment by this committee.

ASSESSMENT

Formulation of the Project Plan

Project Objectives

The Space Network's objectives are clearly articulated in the mission statement; they are aligned with the NASA Strategic Plan² and are traceable to the NASA Vision for Space Exploration.^{3,4} The principal focus of the Space Network is day-to-day operation of the space and ground segments of the TDRSS to provide global tracking and data relay services. Continuity of these services represents a significant technical and budgetary challenge to the Space Net-

work as the existing architecture ages and new demands for service are identified.

The agency-wide Space Communications Architecture Working Group (SCAWG) addresses the communications and navigation architecture needed to support future (25 years) NASA science and exploration missions. At this writing, specific details are pending on both the architectural roadmap and a realignment of management responsibility for space communications.

Project Deliverables

Current Space Network activities are well structured to provide documented services to a broad range of users.⁵ The Space Network interacts daily with the user community, providing services within the network's established capacity and capability. Formal project service-level agreements or memoranda of agreement with both the NASA and non-NASA user communities document the specific Space Network services to be provided. The project service-level agreement is a formal agreement between the project office and the customer for services, at a specific cost, within a

<http://www.linkedin.com/in/javierrgil>

Javier Gil's Experience

*

Principal Analyst
EWA

(Public Company; 501-1000 employees; Defense & Space industry)

June 2008 — Present (1 year)

Electronic Warfare Associates, Herndon, VA.

Defense and technology solutions company, providing contractual intelligence support to government customer.

Provides government lead course development updates.

Remains abreast of current GEOINT node operations, evolving technology, assesses technology and training methods to tailor training to class population.

Student base includes soldiers, sister service members, Federal Service civilians and contractors.

Maintains equipment inventory and ensures readiness of collection sensors.

Performs duties as a Training Developer and instructor for MOS specific training programs and courses in Measurement and Signature Intelligence (MASINT); trains Soldiers on/and integrates MASINT sensors and products into tactical, operational and strategic intelligence and force protection architectures; schedules students for MASINT and AGI courses.

*

Lead Imagery Analyst
BAE Systems

(Public Company; BA.L; Defense & Space industry)

October 2005 — March 2008 (2 years 6 months)

BAE Systems Information Technology, Washington, D.C.

Provide enterprise IT solutions and support to technical and program management activities for governmental agencies.

Worked within the UFAC to support NGA and outside customers for all underground issues within our AOR. I am one of two subject matter experts in our country/region for all underground issues as well as nuclear sites.

Worked hand in hand with UFAC 1 on Nuclear and Ballistics issues for targets in our country of interest. Producing numerous construction chronologies, baseline reports and facility assessments.

Helped other members of our contract on exploiting and authoring reports for nuclear sites in their country of interest.

Facilitate inter-agency and intra-agency group participation nationwide, provide technological support to personnel, and integrate new technology into current working environment. Manage project orders at multiple locations nationwide and systematically increased the customer base.

*

SAR MASINT Analyst
L-3 Communications

(Public Company; LLL; Defense & Space industry)

October 2003 — June 2005 (1 year 9 months)

L-3 Communications Government Services Inc, Las Cruces, NM Provide Advanced Geospatial Intelligence support to clients.

Worked as a SAR MASINT Analyst exploiting and disseminating MASINT products to the DGS-1, DGS-2, and DGS-4. On a daily basis I also provided System Specific Products, such as Color Multi-Views, Dynamic Images and Coherent Change Detection products.

Built up and trained the SAR AGI team; facilitated the transition between old and new programs. Served as a liaison between managers, GPOCs, course developers, instructors, system administrators, maintenance personnel, and system integrators. Supported SAR AGI instructor teams

*

Product Quality Engineer
Boeing Satellite Systems

(Public Company; BA; Defense & Space industry)

December 2001 — October 2003 (1 year 11 months)

Boeing Space & Intelligence Systems, Las Cruces, NM

Defense and technology solutions company, providing contractual intelligence support to government customer.

Worked within the Joint Processing Center (JPC) conducting MASINT product processing and quality assessments. Additionally, perform system/software integration and testing to ensure proper software and tool performance.

I provided on-site customer support and training and System Specific Products, such as Color Multi-Views (2CMV's, 3CMV's), Dynamic Images (DI's) and Coherent Change Detection products (CCD's). As well as Hi RES DEM's, DEM's, TERCAT's, POLCAT's, Glint Smear Reduction (GSR's) and Real Site 3D Site Models to requesting clients outside the local production footprint.

Provided subject matter expertise for the development and revision of SAR AGI courses.

*

Imagery Analyst
US Army

(Government Agency; USA; Military industry)

July 1997 — June 2001 (4 years)

United States Army, Ft Bragg, NC

Provide imagery interpretation in support of national security.

Managed daily exploitation including target assignment, edit, release, and archival of imagery reports. Applied advanced softcopy exploitation analysis techniques to imagery from national reconnaissance systems in a time sensitive, current intelligence environment. Initiated tasking and re tasking of national systems. Produced cables, reports, and comprehensive intelligence documents in support of national intelligence requirements and to the Department of the Army.

Exploited and disseminated SPOT 1, SPOT 3 and SEARCH imagery. Processed, exploited, and disseminated raw imagery and finished intelligence products derived from the PREDATOR, GLOBALHAWK, U2, SYERS and ASARS platforms, as well as (EO), (IR), and (SAR) platforms.

CRADLE OF CONFLICT

IRAQ AND THE BIRTH OF
THE MODERN U.S. MILITARY



MICHAEL KNIGHTS

“SMACKDOWN”: BOMBING THROUGH THE SANDSTORM

V Corps Commander Wallace would later confide, “Personally, the period during the dust storm was the low point of the entire campaign for me.”⁶¹ The sandstorm grounded almost all UAVs, blinded airborne and space-based electro-optical and infrared imagers, and prevented the use of laser guidance for precision munitions. Moreover, it made life miserable for the troops and infinitely more complicated for commanders and logisticians, especially as rainstorms combined with the shamal to “turn the air into mud.”⁶²

[deletia]

The effort relied on a range of airborne ISR platforms equipped with sensors capable of penetrating the sandstorm, such as SIGINT packages, SAR, and MTI radar. To make it possible to keep these aircraft on-station for prolonged periods of time, the Coalition air-component commander, Lieutenant General Moseley, moved the vulnerable tanker aircraft forward and to begin undertaking air-to-air refueling as far north as one hundred miles south of Baghdad. Even with the ongoing suppression of enemy air fields and air defenses, the move represented a risk, one which Moseley shared by riding on one of the first tankers to make the trip further north.⁷¹

The Iraqi frontline divisions deployed in a crescent to the south of Baghdad thought that they were safe within the sandstorm; in fact, they were little safer than they would have been under open skies thanks to a massive increase since 1991 in the Coalition’s ability to sense through bad weather. Although SIGINT satellites and aircraft (the U-2S, RC-135 Rivet Joint, and a host of smaller SIGINT aircraft) had been around in 1991, they were now able to locate emitters with far greater precision than before. Similarly, whereas the JSTARS contribution to Desert Storm had been the experimental fielding of two prototype aircraft, nine fully operational systems were deployed in Operation Iraqi Freedom that provided wide-area coverage of ground movement. JSTARS also contributed to Coalition SAR imaging capability, which

was the key sensor type used in Smackdown. In addition to Lacrosse SAR satellites, U-2S, and JSTARS, the Coalition made extensive use of a single long-loitering Global Hawk UAV for SAR imaging. The drone was kept aloft for twenty-six-hour missions on every other day, imaging two to three hundred sites per sortie.⁷²

The data from these systems were analyzed at three direct ground stations (DGS)—DGS-1 in Langley, Virginia; DGS-2 in Beale, California; and DGS-4 in Ramstein, Germany—plus the 152nd Intelligence Squadron in Reno, Nevada. Each DGS maintained sixty-four SIPRNET chat rooms frequented by end users at the CAOC, which allowed the intelligence analysts in Iraq to talk directly with the air-campaign planners who were arranging strikes one, two, and three days out. Extensive reliance on SIGINT, SAR, and MTI had its drawbacks: the Iraqis maintained fairly good communications security and used landlines, SAR imagery could not often differentiate between real targets and decoys, and MTI still found it difficult to operate against small numbers of enemy vehicles amid extensive ground clutter. However, the ability to merge the inputs of the sensors negated many of these drawbacks. Plus, the air-campaign planners were not looking for perfect SA; all they needed to know was whether a revetment or a tactical assembly area was empty or full. Anything that resembled a threat was going to get bombed.

[Sourcebook note: “Langley” may mean Langley AFB, VA, not CIA Headquarters in Langley, VA.]

https://cp-its-rmprd.saic.com/main/careerportal/Job_Profile.cfm?/1Y5MH31XYYO20MZHNRJ5CLJ7HITQB4VHIYY4VQTUUFVQMET1T815QEEACWFMX26PM9DG1E7KVOK9ICUANP15W9K1NQKXQHMKVGIVSCN4H5D4W9IL47TIN7G5SELOIZ9KGMUSCMET5NFA7VRV65BNVTIQ0KVTIQ0L3H7ATQ8

[Accessed 2009-05-25]

Job Category FAC - Facilities / Physical Security
Req ID 142634
Able to obtain security clearance? Top Secret/SCI w/ CI Polygraph
Currently possess security clearance? Top Secret SCI
Location Las Cruces, NM
% Travel
Relocation No

Requirements SAIC seeks a highly qualified mid-level Information Security Engineer to perform as an Information Systems Security Officer (ISSO) supporting a high-priority real-time operational center that directly impacts US national security. The position is in the Las Cruces, NM area.

An active and current Top Secret SCI clearance is required, with the ability to obtain a CI polygraph.

JOB DESCRIPTION:

The position involves information security analysis and engineering; and participating in various information security activities required to ensure the integrity of the customer's networks, applications, and information. The selected candidate will assist in developing and maintaining the overall system security documentation in accordance with the DCID 6/3. In addition, the individual will work closely with certifiers to navigate the customer's certification & accreditation process and produce all appropriate accreditation documentation.

Duties include ensuring systems are designed, operated, maintained and retired in accordance with established policies and procedures; that users are properly briefed on information security responsibilities and processes; initiating protective or corrective measures in response to security incidents; and conducting periodic reviews to ensure compliance. The candidate will interact with government and other contractor personnel on a regular basis to provide IT security consulting for other security documents such as security incident reports, equipment/software inventories, operating instructions, technical vulnerability reports, and contingency plans.

Occasional travel to government and contractor facilities within the continental US may be required once or twice per year.

EDUCATION: Bachelor's Degree required, preferably in a technical discipline. Candidate must possess at least 5 years of relevant information security experience associated with the certification and accreditation of classified systems.

REQUIRED SKILLS: Current TOP SECRET SCI is required. Candidate must have expertise in securing networks and systems with a thorough understanding of network topologies and associated hardware and software; and operating systems (UNIX, Windows, and Linux). Knowledge of systems engineering and system development lifecycle is required. The ISSO shall possess strong communication and interpersonal skills as he/she operates as part of a multi-contractor team and directly engages in a customer-facing role. Must possess experience with DCID 6/3 standards along with computer security best practices.

DESIRED SKILLS: Ideal candidate should have expertise with IDS-SourceFire, Trusted Guard, Firewalls and Solaris Log analysis; knowledge of Cisco and Juniper devices. A current Certified Information Systems Security Professional (CISSP) or similar security professional certification is highly desired.

<http://www.3001inc.com/GeoHome/careers.asp>

► **IMAGERY ANALYSTS/IMAGERY SCIENTISTS, Las Cruces, New Mexico**

3001 is currently seeking Imagery Analysts and Imagery Scientists for our **anticipated** openings at our Las Cruces, New Mexico location. These individuals will work as members of an Advanced Geospatial Intelligence (AGI) team.

Qualified candidates will meet the following general criteria:

- Must have current TS/SCI security clearance
- Must have completed an Imagery Analysis course GTP or equivalent, plus SARTAC training or equivalent
- Experience with geospatial data manipulation and product production
- Experience with the use of tools such as Remote View, IMAGINE, MET, IMX, DROID
- Experience analyzing geospatial data to provide assessments of facilities and activities
- Experience preparing analysis and reports for community personnel and agencies
- Experience coordinating with intelligence agencies on tasking strategies
- Experience working with Advanced Geospatial Intelligence (AGI) (i.e., MASINT)
- Demonstrated strong writing and briefing skills
- Bachelor's Degree or higher desired.

There are four levels of Imagery Analysts employed at this site and the levels of experience are indicated below:

- Senior Imagery Scientist – formal intelligence training, plus ten (10) years experience as an Imagery Scientist
- Senior AGI Analysts – formal intelligence training, plus ten (10) years of experience as an Imagery Analyst, or 20 years Imagery Analysis experience
- Journeyman AGI Analysts – formal intelligence training, plus four (4) years as an Imagery Analyst, or 8 years Imagery Analysis experience
- Apprentice AGI Analysts – formal intelligence training or eighteen (18) months Imagery Analysis experience.

We offer a competitive compensation package, commensurate with experience and education, plus benefits. Interested applicants should e-mail their resume to jobs@3001inc.com. Please reference "Imagery Analyst, New Mexico" or "Imagery Scientist, New Mexico" in the subject line.

U.S. Government security investigation required. EOE.

<http://www.3001inc.com/GeoHome/careers.asp>

► **ALL SOURCE INTELLIGENCE ANALYST, Las Cruces, New Mexico**

3001 is currently seeking an All-Source Intelligence Analyst for our **anticipated** openings at our Las Cruces, New Mexico location.

The incumbent in this position will have the following responsibilities:

- Research, review, edit, plan, and prepare briefings on all-source strategic, operational, tactical, regional and/or functional products.
- Coordinate, monitor, and integrate valid intelligence while ensuring a timely, comprehensive, and accurate response.
- Develop innovative analytical approaches and validation of analytical conclusions.
- Serve as a team member on multi-agency, multi-disciplinary efforts that involve critical strategic, operational, tactical, regional and/or functional analysis issues.
- Collaborate with agency liaisons on general military threats and trends.
- Collaborate in developing and strengthening substantive ties with other government organizations, as well as analysts throughout the intelligence community.
- Regularly participate in briefings and meetings to provide awareness regarding GEOINT requirements and provides an all-source perspective of the requirement.
- Research and route information to IOC-SW analysts to enhance knowledge of production requirements presenting the highest quality products to the customer and warfighter.

A Bachelor's Degree in Geography, Geospatial Sciences or related area of study is preferred. Seven years of related experience in the intelligence field and/or military is desired. Must have current TS/SCI security clearance.

We offer a competitive salary commensurate with education and experience, plus benefits. Interested applicants should send their resume to: jobs@3001inc.com and reference "All-Source Intelligence Analyst, New Mexico" in the Subject line. U.S. Government security investigation required. EOE.

<https://www.usajobs.org/jobs/69463709/Project%20Scientist.htm>

JOB DESCRIPTION

National Geospatial-Intelligence Agency

Job Announcement Number:

080473

Project Scientist

SALARY RANGE: 36,030.00 - 59,895.00 USD per year

Salary may vary depending on locality. Please refer to www.nga.mil/careers for additional salary information. OPEN PERIOD: Monday, March 10, 2008

to Friday, March 21, 2008

SERIES & GRADE: NI-0000-02/02 POSITION INFORMATION: Full Time This is a permanent position.

DUTY LOCATIONS: 1 vacancy - White Sands Missile Range, NM

WHO MAY BE CONSIDERED:

All Sources

ONLY ELECTRONIC SUBMISSIONS WILL BE ACCEPTED.

JOB SUMMARY:

The National Geospatial-Intelligence Agency (NGA), the World Leader in Geospatial Intelligence. Imagine being able to identify anything on, above, or beneath the Earth's surface and display that information visually to provide a meaningful foundation for decision-making to ensure the safety of the world. That's the job of the National Geospatial-Intelligence Agency.

We analyze imagery and data from many sources and incorporate it into visual displays of essential information for use in national defense, homeland security, and safety of navigation.

Central to the success of our mission are the extraordinary talents and skills of our teams of analysts and other professionals. We need the best minds to provide the information edge, continuing NGA's role as the premier provider of Geospatial Intelligence worldwide.

NGA - Know the Earth . . . Show the Way.

JOB DESCRIPTION: Project Scientists are responsible for the day-to-day execution and technical oversight of a variety of scientific activities. They develop project schedules, determine resource requirements, provide technical guidance and oversight, and report results. Project Scientists apply in-depth expertise from a variety of scientific disciplines (e.g., Photogrammetry, Geodesy, Computer Science, Mathematics, Image Science) to develop, analyze, evaluate, and apply new technology; develop expertise and tradecraft for the Agency; and advise senior management on new and evolving technology. They participate in strategic planning, propose and defend program plans, and communicate and market results to customers and decision-makers. They may additionally serve as COR.

KEY REQUIREMENTS:

U.S. Citizenship Drug Testing Security Investigation

Send Mail to:

NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY

12310 Sunrise Valley Drive

Reston, VA 20190

For questions about this job:

Recruitment
Phone: 703-755-5900

JOB REQUIREMENTS
080473

Project Scientist

QUALIFICATIONS REQUIRED:

MANDATORY QUALIFICATION CRITERIA: Experience that equipped the applicant with the particular knowledge, skills, and abilities to perform successfully the duties of this position, and that is typically in or related to the work of this position. For this particular job, applicants must have experience in the following: Customer Service; Interpersonal Relationship Development/Networking; Oral Communication; Briefing and Oral Presentation; Non-technical Writing; Leadership; Planning and Scheduling; Problem Identification, Analysis and Resolution. **DESIRABLE QUALIFICATION CRITERIA:** In addition to the mandatory qualifications, experience in the following is desired: a demonstrated knowledge of Intelligence Community (IC) membership, mission, goals, and priorities; Customer service principles; Decision-making processes; Civilian agencies (e.g., USGS, DOS); Technical writing; Testing and Evaluation.

EDUCATION REQUIREMENTS: A. Education: Bachelor's degree in Engineering, Mathematics, Physical Science, or a related discipline that includes 24 semester (36 quarter) hours in Physical Science and/or a related Engineering Science. Such coursework includes, but is not limited to, Astronomy, Cartography, Chemistry, Computer Science, Dynamics, Electrical Engineering, Geodesy, Geology, Geophysics, Geospatial Information Systems, Mathematics, Orbital Mechanics, Photogrammetry, Physics, Remote Sensing, or Surveying. Although not mandatory, coursework in differential and integral calculus is preferred. -OR- B. Combination of Education and Experience: A minimum of 24 semester (36 quarter) hours of college education in any areas listed in option A plus experience that demonstrates the ability to successfully perform the duties associated with this work. As a rule, every 30 semester (45 quarter) hours of college work is equivalent to one year of experience. Candidates should show that their combination of education and experience totals to 4 years.

SPECIAL INFO:

- Direct Deposit Required
- Two Year Probationary Period
- U.S. Citizenship Required
- Position Subject to Drug Testing
- Security Clearance Required
- Top Secret
- Sensitive Compartmented Information
- Polygraph Test Required

SPECIAL REQUIREMENTS: You must be able to obtain and retain a Top Secret security clearance with access to Sensitive Compartmented Information. This process may take up to one year or more to be completed. In addition, you may be required to successfully complete a polygraph examination for the current position you applied for and/or for any future position(s).

HOW YOU WILL BE EVALUATED:

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APPLICANT EVALUATION PROCESS: Applicants will be evaluated for this job opportunity in three stages, 1) All applicants will be evaluated using the Mandatory Qualification Criteria, 2) Qualified applicants will then be evaluated by an expert or panel of experts using a combination of qualification criteria to determine the best-qualified candidates, 3) Best-qualified applicants may then be further evaluated through an interview process. Applicants are encouraged to carefully review the

Assignment Description, Additional Information Provided By the Selecting Official, and the Qualification Requirements; and then construct their resumes to highlight their most relevant and significant experience and education for this job opportunity. This description should include examples that detail the level and complexity of the performed work. Applicants are encouraged to provide any education information referenced in the announcement. If education is listed as a mandatory requirement, only degrees obtained from an institution accredited by an accrediting organization recognized by the Secretary, US Department of Education will be accepted. Federal law requires that any former Federal employee who has retired under either the Civil Service Retirement System (CSRS) or the Federal Employees Retirement System (FERS) who is reemployed in the Department of Defense is entitled to full pay and full annuity. Such annuitants must, however, meet the employment criteria specified by DoD Policy Memorandum, Employment of Annuitants, March 18, 2004 (as amended). If you are receiving an annuity of any kind from the Civil Service Retirement and Disability Fund, you may not be eligible for employment with NGA, unless the criteria apply in your case. The DoD policy and employment criteria may be found at http://www.cpms.osd.mil/fas/staffing/pdf/rem_ann.pdf

NARRATIVES REQUIRED: The following required narratives will supplement the information contained in the applicant's resume.

Applicants are **REQUIRED** to submit a narrative on the following KSAs. Entire narrative **CANNOT** exceed the specific limits provided on the KSA field. Pages exceeding this limit will not be considered. **FAILURE TO SUBMIT NARRATIVE RESPONSES TO THE KSA WILL DISQUALIFY AN APPLICANT FROM FURTHER CONSIDERATION.** Applicants should place their narrative information in the appropriate field at the Job History and KSA Text Page.

The KSAs are:

1. Demonstrate your ability to effectively manage multiple assignments within established time constraints.
2. Demonstrate your ability to communicate effectively both orally and in writing.

JOB RESPONSIBILITIES, DUTIES, TASKS

080473

Project Scientist

Additional Duty Location Info: 1 vacancy - White Sands Missile Range, NM

MAJOR DUTIES:

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ADDITIONAL INFORMATION: The employee selected for this position will have an important role in the Advanced Geospatial Intelligence (AGI) work being performed through the Geospatial Intelligence Advancement Testbed (GIAT) Portfolio (IIG) efforts to acquire and exploit advanced sources for geospatial intelligence and to integrate these sources into AGI analysis and problem solutions. Duties include analysis, test and evaluation of commercial software applications; scientific problem solving and development of prototype processes and applications for customers in the **Integrated Operations Center - Southwest (IOC-SW), NGA, IC and DoD**; investigation of potential new sources of AGI; the use of Multi-Intelligence data sources (SIGINT, MASINT) to develop future capabilities for IOC-SW intelligence initiatives; information visualization; and engaging in collaborative partnerships for rapid solution development.

PERMANENT CHANGE IN STATION: Travel/Transportation expenses are not authorized.

HOW TO APPLY

JOB BENEFITS AND OTHER INFORMATION

080473

Project Scientist

BENEFITS:

Pay is only part of the compensation you will earn working for the Federal Government. We offer a broad array of benefits programs and family friendly flexibilities to meet the needs of you and your family. Here are some highlights. Look for additional information along with links to pages that spell out the details below.

You may participate in the Federal Employees Health Benefits program, with costs shared with your employer. More info: <http://www.usajobs.gov/jobextrainfo.asp#FEHB>

Life insurance coverage is provided. More info: <http://www.usajobs.gov/jobextrainfo.asp#life>

Long-Term Care Insurance is offered and carries into your retirement. More info:

<http://www.usajobs.gov/jobextrainfo.asp#ltci>

New employees are automatically covered by the Federal Employees Retirement System (FERS). If you are transferring from another agency and covered by CSRS, you may continue in this program.

More info: <http://www.usajobs.gov/jobextrainfo.asp#retr>

You will earn annual vacation leave. More info: <http://www.usajobs.gov/jobextrainfo.asp#VACA>

You will earn sick leave. More info: <http://www.usajobs.gov/jobextrainfo.asp#SKLV>

You will be paid for federal holidays that fall within your regularly scheduled tour of duty. More info:

<http://www.usajobs.gov/jobextrainfo.asp#HOLI>

In addition to federal benefits, NGA employees are also eligible for a suite of benefits offered only to the Intelligence Community (IC). The Compass Rose Benefits Group (CRBG) offers insurance products and services to all IC civilian employees. Compass Rose benefits include: Term Life Insurance, Group Accident Plan, Income Replacement, and Long Term Care Insurance. For more information on this highly-restricted opportunity, please visit the Compass Rose website:

<http://www.compassrosebenefits.com>

Ted Cope's Experience

*

Special Functional Exec (FX) for NSG R&D
NGA

Currently holds this position

*

NGA Space Radar IPO Deputy Director for TPED
National Geospatial-Intelligence Agency

September 2003 — December 2007 (4 years 4 months)

*

Director, Integrated Operations Center Southwest
National Geospatial-Intelligence Agency

October 2005 — December 2006 (1 year 3 months)

*

Colonel
US Air Force

1973 — 2005 (32 years)

*

Chief Science Advisor for RADAR
National Geospatial-Intelligence Agency

August 2002 — August 2003 (1 year 1 month)

*

CIO Deputy Director
National Reconnaissance Office

February 2000 — August 2002 (2 years 7 months)

*

Deputy Director, IMINT Systems Engineering
National Reconnaissance Office

September 1998 — February 2000 (1 year 6 months)

<https://jobs.latinosforhire.com/jobdetails.cfm?jid=22428>

Source Strategies Analyst

Job Information

Post Date: May 22, 2009 Type: Full time

Start Date: - n/a - Salary: - n/a -

Location: New Mexico - White Sands Missile Range Job Reference: - n/a -

Job Details

Description

Open date: 2009-02-09

Close date: 2009-02-20

The National Geospatial-Intelligence Agency (NGA), the World Leader in Geospatial Intelligence.

Imagine being able to identify anything on, above, or beneath the Earth's surface and display that information visually to provide a meaningful foundation for decision-making to ensure the safety of the world. That's the job of the National Geospatial-Intelligence Agency.

We analyze imagery and data from many sources and incorporate it into visual displays of essential information for use in national defense, homeland security, and safety of navigation.

Central to the success of our mission are the extraordinary talents and skills of our teams of analysts and other professionals. We need the best minds to provide the information edge, continuing NGA's role as the premier provider of Geospatial Intelligence worldwide.

NGA - Know the Earth . . . Show the Way.

ASSIGNMENT DESCRIPTION: Source Strategies Analysts collaborate with customers and source providers to develop comprehensive multi-INT, multi-source strategies to address intelligence problems. They create tasking and dissemination requirements, adjudicate requirements, analyze and investigate collection performance, assess and report on end-to-end GEOINT system performance data, and advise customers in support of the National System for Geospatial-Intelligence (NSG).

ADDITIONAL INFORMATION: The Source Directorate, Source Strategies Office, Source Fusion Center Southwest is seeking a highly qualified and motivated individual to support a key element of its distributed Source Fusion Center "Community Support" operations team that will enable multi-intelligence collection initiatives with mission partners and the IC customer base. The selected individual will champion horizontal integration between a wide range of national technical means, maximizing the value of GEOINT as a mechanism to drive analytical and complementary intelligence efforts in a real time environment. The individual must have a fundamental understanding of all intelligence disciplines, with an emphasis on GEOINT, SIGINT, ONIR and other technical means and must be capable of operating in dynamic situations, and responding to stakeholders within and outside their direct supervisory chain. The selected individual will be required to exercise verbal and written communication skills in the preparation and presentation of technical analysis, position papers, operational briefings, and operational procedures. The selected individual will also be required to maintain a close working relationship with the NGA analytical elements at multiple physical locations and will be required to provide direct support for both the Integrated Operations Center South West (IOC-SW) and Integrated Operations Center Special Programs (IOC-SP) while maintaining a basic understanding of the architectures that support such activities.

[http://seeker.dice.com/jobsearch/servlet/JobSearch?
op=101&dockey=xml/7/0/70622872baf700c759eda4f4b9eed913@endecaindex&c=1&source=21&cid
=simplyhired](http://seeker.dice.com/jobsearch/servlet/JobSearch?op=101&dockey=xml/7/0/70622872baf700c759eda4f4b9eed913@endecaindex&c=1&source=21&cid=simplyhired)

Location: Las Cruces, NM

Area Code: 505

Tax Term: FULLTIME

Pay Rate: tbd

Length:

Position ID: HITS02091056

Dice ID: harrisme

Travel Required: none

Telecommute: no

Title: Electrical Engineer - TS/SSBI Required

Skills: Position requires a current Top Secret/SSBI Security Clearance

Date: 5-23-2009

Description:

Job Responsibilities:

- * Responsible for designing, developing, modifying and evaluating electronic parts, components, or integrated circuitry for electronic equipment or other hardware systems
- * Determines design approaches and parameters. Analyzes electrical requirements to determine feasibility of design within time and cost constraints
- * Analyzes equipment to establish operating data, conducts experimental tests and evaluates results
- * Selects components and equipment based on analysis of specifications and reliability
- * May also review vendor capability to support development

Qualifications:

- * Requires a Bachelors degree and 5+ years of experience
- * Knowledge of basic AC and DC power and grounding principles. Knowledge of heat dissipation and cooling principles
- * Experience in hardware systems installation / integration
- * Experience in the use of Electronic Test equipment to include oscilloscopes and multi-meters
- * Experience in basic system evaluation, design, modification and repair
- * Computer skills to include basic administration for MS Windows, Linux and UNIX

* Use of MS office for documentation generation/updates

* Working experience of Autocad and Visio drawing programs

* Applicants selected will be subject to a government security investigation and must meet eligibility requirements for access to classified information. Position requires a current Top Secret/SSBI Security Clearance

By submitting your resume for this position, you understand and agree that Harris Corporation may share your resume, as well as any other related personal information or documentation you provide, with its subsidiaries and affiliated companies (including Harris Stratex Networks, Inc.) for the purpose of considering you for other available positions

Harris

MS D-11B

Melbourne, FL 32919

Web: <http://www.careers.harris.com>

<http://www.jobs.net/Job.asp?jid=J8G2RK6HDFG5NQDYK9N>

Mgr Software Engineering 1
Company: N/A
Location: White Sands, NM
Pay: N/A

Contact Information

Name: n/a
Phone: n/a
Fax: n/a
Apply Now
Job Details

This is a NASA contract, located in Las Cruces, New Mexico. Operating here are two functionally identical satellite ground terminals: the White Sands Ground Terminal Upgrade, and the second TDRSS Ground Terminal. These two terminals ensure uninterrupted communications between various ground stations, NASA's orbiting fleet of Tracking and Data Relay Satellites (TDRS), customer spacecraft (satellites), and the computer systems that support such spacecraft. The WSC also serves as an interface for distributing satellite data to control centers and scientists who then use the daily influx of data to expand our ever growing knowledge of the Earth and the universe.

The Software Engineering Department at the White Sands Complex has an opening for a senior Software Engineer to be the section lead of the NCCDS (Network Control Center Data System) and DAS (Demand Access System) group. The job duties will include technical oversight of group software development, day to day management of subordinate personnel (6-10 people), performance reviews and reporting to senior management.

Basic Qualifications:

- * Minimum 8 years experience with a high level language (at least four years of C or C++). MS in mathematics, engineering, computer science or other related field and 12 years of experience, BA/BS in related field and 14 years of related experience
- * Minimum two years experience managing medium sized groups (6-10 people).
- * Ability to obtain Secret security clearance

Additional Qualifications:

Experience with

- * Large software projects (preferably C/C++ including database development, threading, and multiple operating systems on Unix, Windows and embedded systems
- * Multiple database including Oracle, Access and Ingres
- * Various communications protocols (TCP, UDP, RS-232/422, etc)
- * Technical project leadership, effort estimates and scheduling
 - Software development in a CMM/CMMI Level 2/3 Environment

<http://www.simplyhired.com/job-id/rsc23cvttq/technical-writer-jobs/>

[Accessed 2009-05-29]

*

TECHNICAL WRITER 3
CACI International - New Mexico

Duties and Responsibilities: Part-time (20 hours/week) technical writer/subject matter expert (SME) supporting the National Geospatial-Intelligence Agency in White Sands, NM. TS/SCI clearance required. SME will assist **IOC-SW Director and all elements of IOC-SW** develop, propose, provide, advise, update, and maintain an active program of information sharing both within and external to IOC-SW, using a variety of media and formats. Must possess superior writing skills and have an advanced level of understanding of Advanced Geospatial-Intelligence sensors, tools, and techniques. These tasks include: * Must write, develop and deliver basic, intermediate and advanced levels of AGI correspondence, articles, policies, CONOPS Plan focusing on **SAR** for delivery to NGA and other geospatial intelligence community...

This is Google's cache of <http://federalgovernmentjobs.us/jobs/Senior-System-Engineer-1784639.html>. It is a snapshot of the page as it appeared on Jan 19, 2010 18:19:40 GMT

Vacancy No.	20101396	Department	National Geospatial-Intelligence Agency
Salary	\$89,033.00 to \$143,785.00	Grade	04 to 04
Perm/Temp	Permanent	FT/PT	Full-time
Open Date	1/19/2010	Close Date	1/29/2010
Job Link	Application instruction listed in job description		Who may apply
			Public

Locations: (Help make everyone's job search easier! Report incorrect job locations. [Include a new Location](#))
RESTON, VA [remove](#)

Job Description (Please follow all instructions carefully)

Department:
Department Of Defense
Agency:
National Geospatial-Intelligence Agency
Job Announcement Number:
20101396
Job Title:
Senior System Engineer
Salary Range:
89,033.00 - 143,785.00 USD /year
Salary may vary depending on locality. Please refer to www.nga.mil/careers for additional salary information.
[Series & Grade:](#)
IA-0854-04/04
Open Period:
Tuesday, January 19, 2010 to Friday, January 29, 2010
Position Information:
Full Time This is a permanent position.
Duty Locations:
1 vacancy - **LAS CRUCES**
Who May Be Considered:

All Sources

ONLY ELECTRONIC SUBMISSIONS WILL BE ACCEPTED.

[deletia]

Key Requirements:

- U.S. Citizenship
- Drug Testing
- Security Investigation

Major Duties:

ADDITIONAL INFORMATION: The Acquisition Directorate, NSG Systems Integrity Division (AEI), seeks experienced, innovative and highly motivated candidates for a System Engineer position within the NGA Image Quality and Utility (NIQU) program. The selectee will serve as a lead systems engineer working at the Southwest location performing the following functions: facilitating the integration of product quality (PQ) efforts between AEI and the Southwest facility; acting as an AEI liaison with other NGA and Mission Partner organizations located on site; serve as a single point of contact between NIQU East and the various PQ organizations at on site; perform validation and verification of SAR data; perform PQ assessments in support of Southwest facility testing for software drops and promotes; bring quality issues found by NIQU to the attention of the Southwest PQ organizations as well as track and follow-up on their resolution; serve as a point of contact for the NIQU PQ monitoring tools, which are now on-line at the Southwest facility; provide timely NIQU PQ support to operations for anomaly identification and problem resolution; steward NIQU's requests for Southwest data to support PQ studies and analyses; coordinate with Southwest operations personnel on NIQU's Enhanced Tailored Product Requests (eTPR) submissions and MASINT server issues, especially where problems are encountered that impact NIQU's monthly product quality tracking and trending activities; serve as NIQU representative at SAR community reviews prior the transition of new SAR AGI products or AGP software changes into operations.

PERMANENT CHANGE IN STATION: Depending on funding availability, PCS expenses may be authorized by the hiring component.

Qualifications:

MANDATORY QUALIFICATION CRITERIA: Experience that equipped the applicant with the particular knowledge, skills, and abilities to perform successfully the duties of this position, and that is typically in or related to the work of this position. For this particular job, applicants must have experience in the following: Applicants must demonstrate in-depth experience in the following systems engineering activities: systems acquisition process, systems requirements definition/analysis, NSG systems architecture, systems testing and image data validation, industry and DoD image data standards, configuration management, risk management, understanding of sensor types and in-depth knowledge about image storage/processing and image data formats. Candidates should have a technical and functional knowledge of: imagery storage and exploitation systems, EO and SAR exploitation techniques, NGA's image quality functions associated with the SAR imagery environment.

EDUCATION REQUIREMENT: A. Education: Bachelor's degree in Computer Science, Engineering, Mathematics, Physical Science, or a related discipline. Enrollment in a Systems Engineering Graduate Certificate Program (SEGCP), or a Graduate program in a Management or technical discipline is highly desirable. -OR- B. Experience: Ten years of acquisition work experience (as of October 1, 1991) in SPRDE or a closely-related field that demonstrates the ability to successfully perform the tasks associated with this work.

DESIRABLE QUALIFICATION CRITERIA: In addition to the mandatory qualifications, experience in the following is desired: Candidates should possess excellent communication and interpersonal skills, the ability to identify and resolve complex community-level issues, experience in problem identification, analysis and resolution, experience in briefing complex issues to senior level NGA and external stakeholders, an understanding of geospatial-intelligence analysis, imagery analysis, geospatial information systems (GIS) and NGA's National System for Geospatial-Intelligence (NSG), NGA's engineering change process to include: resolving funding, technical, and schedule issues, and familiarity with NGA products and services.

EDUCATION REQUIREMENTS: A. Education: Bachelor's degree in Computer Science, Engineering, Mathematics, Physical Science, or a related discipline. Enrollment in a Systems Engineering Graduate Certificate Program (SEGCP), or a Graduate program in a Management or technical discipline is highly desirable. -OR- B. Experience: Ten years of acquisition work experience (as of October 1, 1991) in SPRDE or a closely-related field that demonstrates the ability to successfully perform the tasks associated with this work.

SPECIAL INFO:

- Direct Deposit Required
- Two Year Probationary Period
- U.S. Citizenship Required
- Position Subject to Drug Testing
- Security Clearance Required
- Top Secret
- Sensitive Compartmented Information
- Polygraph Test Required
- Direct Deposit Required
- Two Year Probationary Period
- U.S. Citizenship Required
- Position Subject to Drug Testing
- Security Clearance Required
- Top Secret
- Sensitive Compartmented Information
- Polygraph Test Required

SPECIAL REQUIREMENTS: You must be able to obtain and retain a Top Secret security clearance with access to Sensitive Compartmented Information. In addition, you are subject to a Counterintelligence Polygraph (CI) examination in order to maintain access to Top Secret information. All employees are subject to a periodic examination on a random basis in order to determine continued eligibility. Refusal to take the examination may result in denial of access to Top Secret information, SAP, and/or unescorted access to SCIFs.

<http://www.ihireinformationtechnology.com/t-it-s-New-Mexico-c-Las-Cruces-jobs.html>

2/22/2010

- Las Cruces, NM - Network Engineer

Harris Corporation

Job Title: Network Engineer Job Code: HITS02101123 Job Description: Responsible for providing high quality and reliable voice and data communications services, including telephony systems, data terminals and networks Performs hardware and software moves, adds and changes Installs, tests, and repairs telecommunications and information technology hardware, software, and circuits Monitors and analyzes system and circuit performance, troubleshoots failures and signal degradation, determines the root cause, and ensures hardware and software maintenance actions are completed promptly Recommends improvements to operations, maintenance, inspection procedures and techniques to improve network performance Coordinates with network engineering and project managers in the planning, development and implementation of improvements to the telephony systems, data terminals and networks Qualifications: Bachelors degree (or the equivalent) Experience with Hardware Maintenance to include installing Cryptographic, Multiplexer, CSU/DSU and Router equipment Ability to install and configure Voice, Data and Video systems Knowledge of DHCP network scopes and ability to configure network settings of PC for proper VoIP configuration Experience installing and terminating copper telecommunications cable and fiber optic lines and support equipment Experience with MS Office Products and Services Express clear communications skills **This position requires the candidate to already possess an active TS/SSBI clearance and to maintain the clearance** By submitting your rÃ©sumÃ© for this position, you understand and agree that Harris Corporation may share your rÃ©sumÃ©, as well as any other related personal information or documentation you provide, with its subsidiaries and affiliated companies for the purpose of considering you for other available positions Â

[http://www.careerbuilder.com/JobSeeker/Jobs/JobDetails.aspx?
IPath=CJR&APath=2.21.0.0.0&job_id=J3H2WW5ZDVKV7FWJ27L](http://www.careerbuilder.com/JobSeeker/Jobs/JobDetails.aspx?IPath=CJR&APath=2.21.0.0.0&job_id=J3H2WW5ZDVKV7FWJ27L)

Date Posted: 3/10/2010

Company
The Boeing Company

Job Location
US-NM-Las Cruces

Status
Full-Time

Experience Level
At least 5 year(s)

Education
4 Year Degree

Requisition Number
10-1002798

Image Analyst 3/4 - RROC Day Operations [*OC = Operations/Operating Center??*]

Leads and provides intelligence/imagery analytic solutions to a wide range of difficult problems that require ingenuity and creativity across multiple image and intelligence disciplines and diverse platforms. Analyzes data collected by sensors on intelligence, surveillance and reconnaissance (ISR) platforms. Creates and distributes reports from imagery-derived products. Conducts analysis to support and extend the finished imagery reports. Analyzes data from remote sensing capabilities and related phenomenology. Provides intelligence/imagery analytic solutions to a wide range of difficult mission planning problems with conclusions or recommendations. Applies specialized experience and/or training in specific sensor types. Gathers and monitors imagery and related metadata to identify product quality concerns and recommends engineering investigation. Conducts imagery studies and develops operational scenarios. Develops, updates and presents technical imagery-based courses in such areas as object, target or signature characterization familiarity, multi-sensor interpretation and data collection.

Competencies **General**

[+] Communication Clarifies purpose and importance; stresses major points; follows a logical sequence. Keeps the audience engaged through use of techniques such as analogies, illustrations, humor, an appealing style, body language, and voice inflection. Frames the message in line with audience experience, background, and expectations; uses terms, examples, and analogies that are meaningful to the audience. Seeks input from audience; checks understanding; presents message in different ways to enhance understanding. Uses syntax, pace, volume, diction, and mechanics appropriate to the media being used. Accurately interprets messages from others and responds appropriately.

[+] Customer Focus Makes customers and their needs a primary focus of one's actions; develops and sustains productive customer relationships; uses information to understand customers' circumstances, problems, expectations, and needs; periodically becomes involved in sharing information with customers to build their understanding of issues and capabilities; considers how actions or plans will

affect customers; responds quickly to meet customer needs and resolve problems; assists higher graded employees and/or project team leaders in implementing ways to monitor and evaluate customer concerns, issues, and satisfaction and to anticipate customer needs.

[+] Systems Thinking Evaluates job tasks and processes on how well they help meet team objective(s); identifies non-value-adding components and barriers. Formulates change strategies; seeks input from others to evaluate options for change and encourage buy-in. Makes appropriate changes to job/role structures and processes by communicating effectively and focusing on new skill development. Uses accurate measurement systems to monitor the implementation

. Technical

[+] Analytical Skills

- Skill and ability to: collect, organize, synthesize, and analyze data; summarize findings; develop conclusions and recommendations from appropriate data sources at the department level. *Preferred* -Skill and ability to: collect, organize, synthesize, and analyze data; summarize findings; develop conclusions and recommendations from appropriate data sources with clients, customers and/or suppliers.
- [+] Ops Effective Analysis *Basic* - Complete knowledge of operational effectiveness analysis methodologies (e.g. mission and system effectiveness analysis) and tools (e.g., mission simulations; measure of effectiveness; human in the loop simulators, test facilities, and operational evaluations). *Preferred* -Extensive knowledge of operational effectiveness analysis methodologies (e.g. mission and system effectiveness analysis) and tools (e.g., mission simulations; measure of effectiveness; human in the loop simulators, test facilities, and operational evaluations).
- [+] Proj Sched & Resource Mgmt *Basic* - Complete ability to create comprehensive project schedules which identify time frames for key project milestones, direct and manage more complex project schedules, independently identify project resource requirements, collaborate with others on more complex projects assigned, and assist others in complex large scale projects. *Preferred* -Extensive, specialized ability to create comprehensive multi-tiered project schedules for significant Business Unit projects. Extensive, specialized ability to identify time frames for key project milestones, ensure alignment of sub tier activities for overall project visibility, tracking and completion, direct and manage more complex project schedules requiring interfacing with multi regional or international activities, independently identify project resource requirements, and integrate and direct multi project elements into a single collective overall project plan. Extensive, specialized ability to collaborate with others on the very complex projects assigned.
- [+] Remote Sensing *Basic* - Complete understanding of the Imagery intelligence cycle as it applies to remote sensing systems, and ability to assess and determine best sensor to satisfy requirement. Complete understanding of hard- and soft-copy exploitation tools, equipment and software. *Preferred* -Extensive and specialized knowledge of the Imagery intelligence cycle as it applies to remote sensing systems, and ability to assess and determine best sensor to satisfy requirement. Complete understanding of hard- and soft-copy exploitation tools, equipment and software. Typical Education/Experience Level 3 - Technical bachelor's degree and typically 5 or more years' related work experience or a Master's degree with typically 3 or more years' or a PhD degree or an equivalent combination of education and experience. A technical degree is defined as any four year degree, or greater, in a mathematic, scientific or information

technology field of study. Level 4 - Technical bachelor's degree and typically 9 or more years' related work experience or a Master's degree with typically 7 or more years' or a PhD degree with typically 4 or more years' related work experience or an equivalent combination of education and experience. A technical degree is defined as any four year degree, or greater, in a mathematic, scientific or information technology field of study. Other Job related information Security Clearance: Candidate must possess a current SSBI/Special Programs Access clearance. The position is contingent upon that successful contract award.

This is Google's cache of <http://www.job-search-engine.com/keyword/ssbi/>. It is a snapshot of the page as it appeared on Mar 20, 2010 22:18:53 GMT.

Software Engineer - TS SSBI - Hits // Security Clearance Required

Harris Corporation (Las Cruces, NM)

...Clearance: Top Secret with FSP/Full/Lifestyle polygraph Software Engineer - TS SSBI - HITS11091045

IntelligenceCareers.com (01/31/10)

<http://jobview.monster.com/GetJob.aspx?JobID=86895823&from=indeed>

From Monster - 8 days ago [Accessed 2010-03-27]

COMPANY

Harris Corporation

JOB TITLE

Geo-Spatial Scientist Engineer - TS/SSBI Required

CITY/STATE

Las Cruces, NM

POSITION TYPE

Full Time

Employee

REFERENCE CODE

HITS03101047

Job Description:

- * Perform research, maintain databases, contribute to the preparation of analytical and technical reports and publications, prepare graphics and provide presentations in support of mission requirements
- * Utilize Geographic Information Systems (GIS) to extract and/or access geospatial information, derivative information, and multi-intelligence data to provide requirements, currency, accuracy, readiness, responsiveness, data integrity, and relevancy recommendations that support the analysis and visualization of geospatial data available for use by the military, intelligence, and policy-making communities
- * Perform scientific analysis on a variety of remotely sensed data types
- * Present oral and written reports on the analysis
- * Effectively communicate remote sensing capabilities and related phenomenology

Qualifications:

- * Requires a Bachelors of Science degree in remote sensing, Earth, or Physical Science
- * Minimum 5 years of in Geographic Information Systems (GIS)
- * Proficient with one or more tools: ERDAS Imagine, ESRI Arc suite (ArcGIS, ArcMap, ArcIMS, ArcSDE), SOCCET, GXP
- * Experience with modeling, spatial regression analysis, and/or human terrain analysis

This is Google's cache of <http://www.indeed.com/q-Lockheed-Martin-l-Las-Cruces,-NM-88007-jobs.html>. It is a snapshot of the page as it appeared on Feb 12, 2010 10:04:55 GMT

Heating Refrigeration & Air Conditioning

Lockheed Martin - Las Cruces, NM

Security Clearance: Top Secret with FSP/Full/Lifestyle polygraph JN ARBLMC3020-726515 p p

From Intelligencecareers.com - 4 days ago

<http://www8.nationalacademies.org/cp/CommitteeView.aspx?key=48977>

Committee Membership Information

Project Title: Review of the Department of Homeland Security's Approach to Risk Analysis

PIN: DELS-O-08-01-A

Major Unit: Division on Earth and Life Studies
Division on Engineering and Physical Sciences

RSO: Parker, Stephen

Committee Membership
Date Posted: 10/17/2008

Ms. Katherine Hall
BAE Systems

Katherine Hall is Director of Strategy and Plans for Global Analysis at BAE Systems. Prior to joining BAE, she directed the analysis and production section of the National Geospatial-Intelligence Agency (NGA), which is responsible for the management and strategic direction of several thousand intelligence analysts. Ms. Hall led the NGA's Integrated Operations Center in Denver which was cited by the DNI as a model of interagency cooperation. Prior to moving to NGA, she was a Senior Intelligence Officer with the CIA. As part of CIA's Office of Military Support, she directed CIA's Representative to NORAD/USSPACECOM where she acted as a senior intelligence advisor to the Commander. Ms. Hall was also a national intelligence officer and head of the National Intelligence Council's Analytic Group, an organization of senior intelligence officers responsible for the production of national estimates. She personally drafted several national intelligence estimates and with others was the developer of the first US Government model to estimate the spread and impact of AIDS. She also served in several senior positions in CIA's Directorate of Intelligence such as Deputy Director of the CIA's Office of Asian Pacific and Latin American Analysis and Director of the Office of Africa and Latin America. She began her career as a military and weapons analyst. Ms. Hall received her BA in history and physics from Mount Holyoke College and her MA in international relations from George Washington University. Ms. Hall's inclusion on this committee will ensure that the committee has an understanding of the quality of inputs upon which DHS must base its counter-terrorism risk analyses.

<http://www.theseretofhennybogan.com/aboutmark.html>

I rejoined government civilian service in April 2002, accepting an appointment with NIMA. I served as a Branch Chief for Future Concepts and was given responsibility for NIMA's Persistent Surveillance portfolio, including Space Base Radar (SBR), the New Imaging System, Laser Imaging Detection and Ranging and Airborne Integration Program efforts, including Global Hawk, Predator, JSTARS and the U-2. I was later assigned as the NIMA SBR Program Manager and helped establish the NIMA Persistent Surveillance Office. I was promoted to the Executive Service (Defense Intelligence Senior Level) in November 2003. I am currently the Deputy Director, Integrated Operations Center-Special Projects, Analysis & Production Directorate, National Geospatial-Intelligence Agency, Bethesda, Maryland, with duty at the Washington Navy Yard.