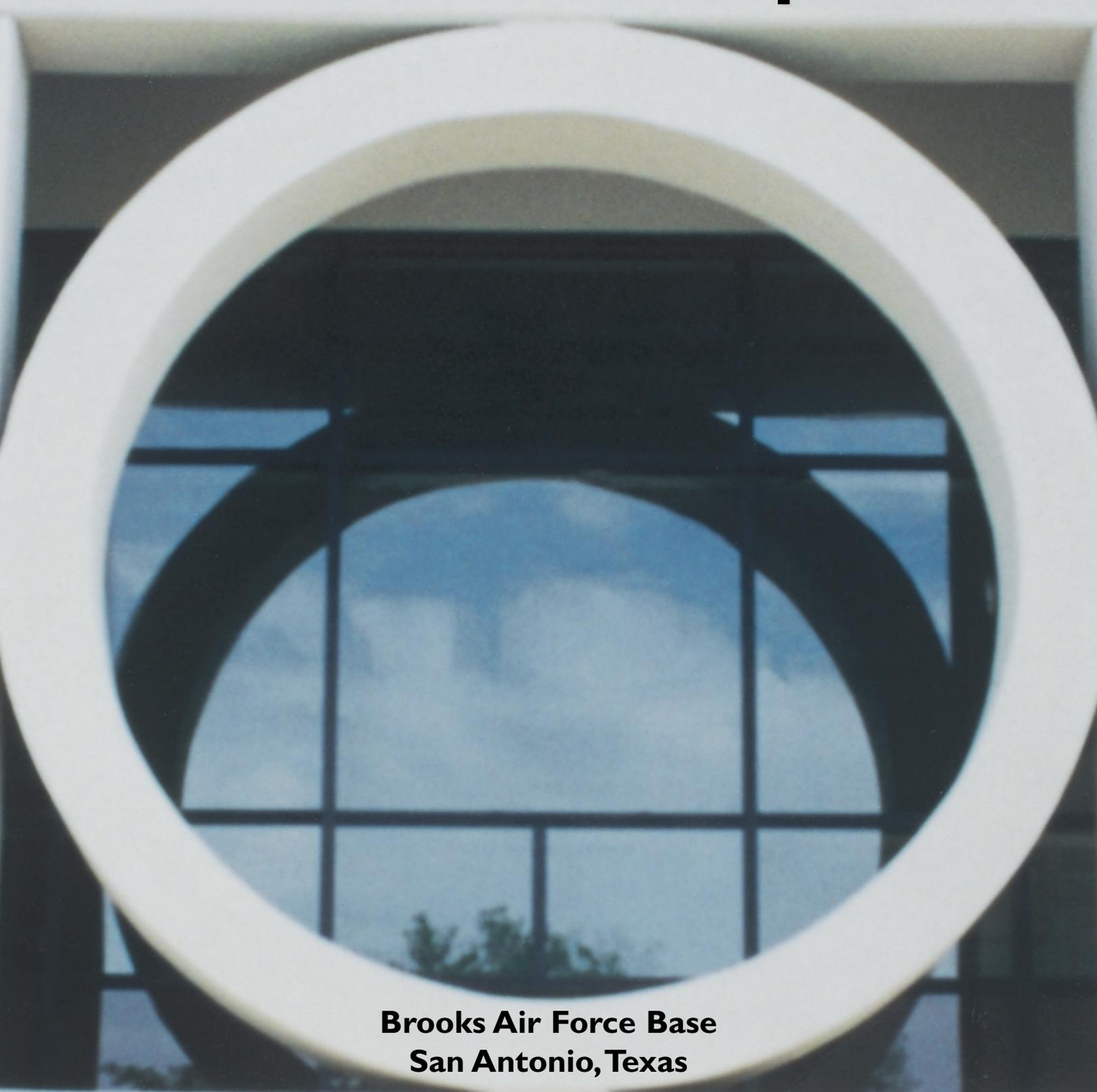


Air Force Center for Environmental Excellence Fiscal Year 2001 Annual Report

A large circular window with a white frame, looking out onto a blue sky with clouds and a grid pattern.

**Brooks Air Force Base
San Antonio, Texas**



AFCEE Fiscal Year 2001 Annual Report

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This report is available online at
<http://www.afcee.brooks.af.mil/report>



From the director:

Momentous changes are taking place in our country and in the world even as you read this message. Who would have thought last year at this time that the events of late 2001 would change the history of the United States so quickly and so dramatically? The terrorist attacks of September 11 left many of us confused, hurt, and angry. But like the rest of the country, we paused only long enough to pay tribute to our fellow citizens who died or were wounded as a result of the senseless violence – and then we went back to work on behalf of our great nation. The enemies of the United States who thought they would scare us into paralysis badly misjudged the resilience and courage of the American people.

I think that those of us who are employed at AFCEE are very fortunate because the things we do here directly impact the environmental well being of the United States. By staying faithful to our mission of providing whatever service the Air Forces needs, we are helping preserve the wonderful legacy of “America the Beautiful” for future generations. Long after we have left the scene, those Americans will be able to enjoy a safe and secure environment because of our contributions today.

This year we celebrated an AFCEE milestone – the Center’s 10th anniversary. It was a true pleasure to meet again with some of the people who helped shape the agency at its infancy, marvel at how far the organization has come, and discuss what the future may hold. Mr. J.B. Cole, the Center’s first director and the person most responsible for its creation, was kind enough to join us in the festivities. We hope to be able to celebrate many more anniversaries in the years to come.

I have never been prouder to be an American; and I’m proud, also, of having the privilege of being AFCEE’s director. The ingenuity and hard work of AFCEE’s people in fiscal year 2001, as in all other times, make it a pleasure to be here. The pages that follow tell just part of the story, but they do reflect the accomplishments of a very successful year, made possible because of a lot of hard work and dedication. We’ll continue this exemplary support to our Air Force and our nation in FY 2002.



Gary M. Erickson, P.E.





FY 2001 Honors

Mr. Gary M. Erickson, AFCEE director, was honored as a Meritorious Executive by President George W. Bush. He was among 12 Air Force civilians to receive either a Distinguished Executive or Meritorious award from the president. The chief executive confers these ranks each year on a select group of career SES civilians for their exceptional service to the American people and long-term achievements.

Lt. Col. Jared Astin of the Environmental Restoration Directorate was named Air Force Engineer of the Year by the National Society of Professional Engineers. The program recognizes outstanding civilian and military engineers working in the federal government.

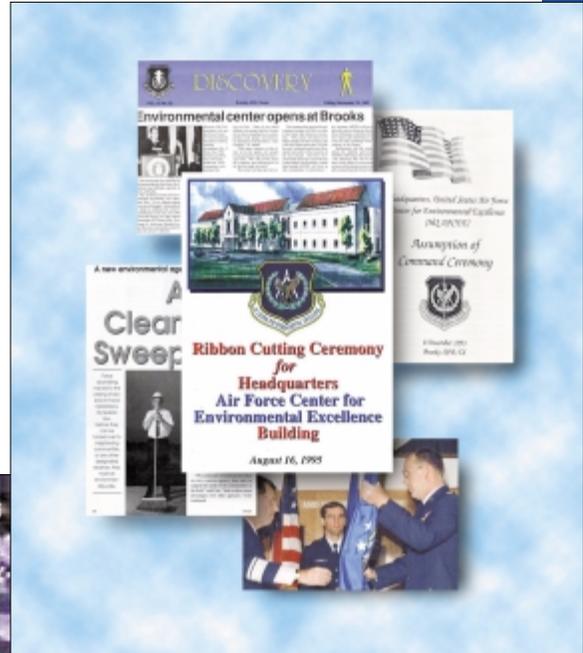
Mr. David M. Garrison with AFCEE's Regional Environmental Office in Dallas received the Air Force Exemplary Civilian Service Award for his contributions while serving as a regional environmental manager.

In the Design and Construction Directorate, Mr. Rick Sinkfield was honored with the Air Force Association's Charlotte and Carlton Loos Award for outstanding professional achievement and community service; and Mr. Dave Duncan was awarded the Air Force Design Excellence Award in the civilian category. He was recognized for his demonstrated commitment to achieving design excellence throughout the Air Force by his management of the USAF Design Awards and Assistance Team programs.

Projects led by Mr. Ted Shierk and Ms. Brenda Roesch of Design and Construction received a Citation Award from the 2001 Air Force Design Awards Program. They are, respectively, the Davis Monthan AFB, Arizona, Sonoran Vista Housing Neighborhood Landscape design and the RAF Croughton, England, General Plan. Additionally, the Kunsan Air Base, Korea, Community Center Development Study conducted by the Design Group Division received a command-level Design Award from Pacific Air Forces Command.



Representatives from the Chinese People's Liberation Army visited AFCEE for the first time in 2001. AFCEE executive director Col. Sam Garcia, center, attended a briefing for the visiting officials.



AFCEE celebrated its 10th anniversary this year.



The Sixth Annual Joint Services Pollution Prevention and Hazardous Waste Management Conference, sponsored by AFCEE, was attended by about 2,000 government and private-sector representatives.



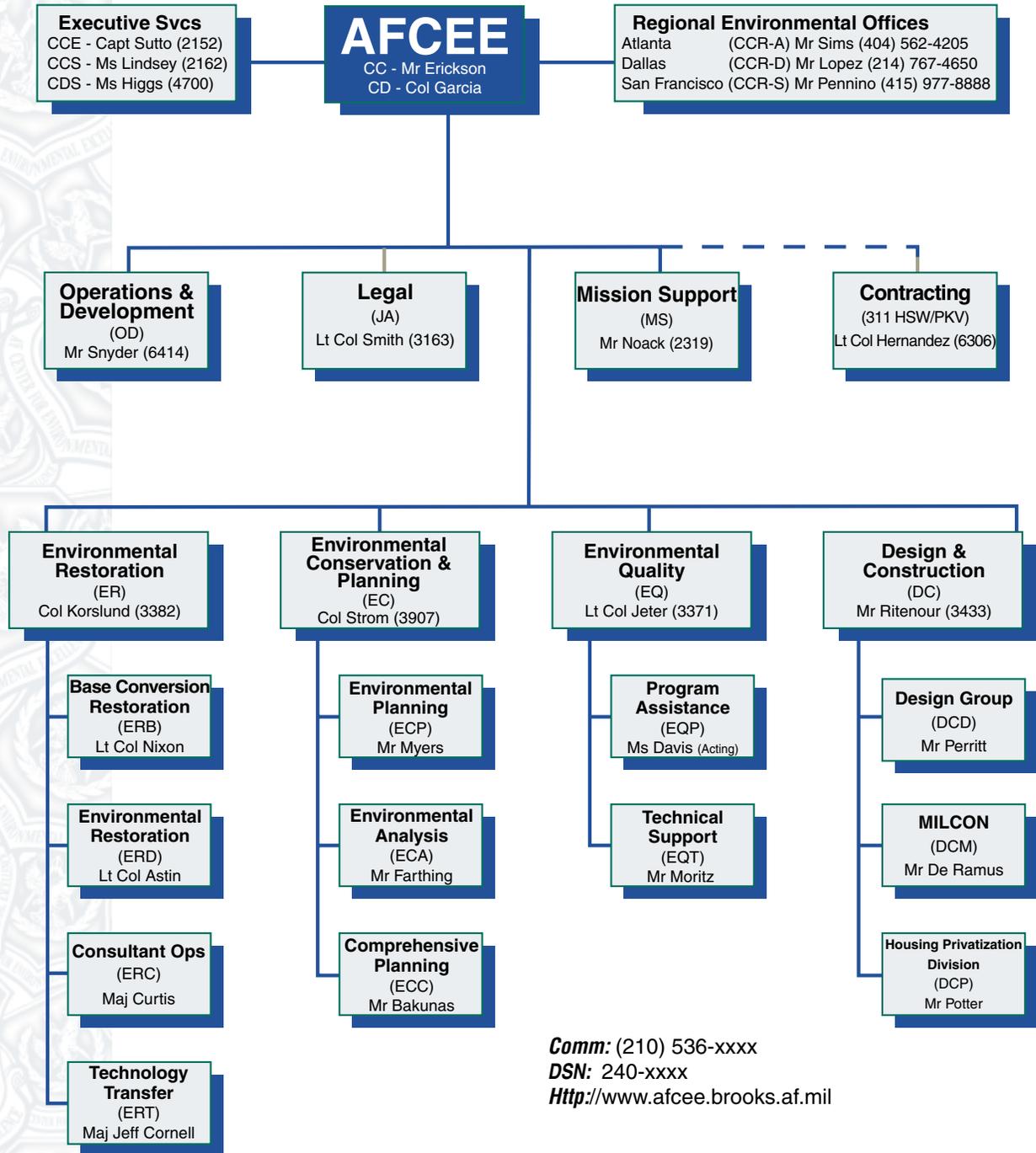
AFCEE judge advocate Lt. Col. Everett Willard, Jr., was master of ceremonies at the award presentation marking the Center's successful first 10 years in existence.



AFCEE staffers were involved in a number of community service activities in FY 2001, including San Antonio's Heat Relief project.



Organization Chart



Comm: (210) 536-xxxx
DSN: 240-xxxx
Http: www.afcee.brooks.af.mil

Environmental Restoration Directorate (ER) **(Tel: 210.536.3383/DSN 94.3383)**

The Environmental Restoration Directorate executes the complete range of environmental cleanup activities for its customers. These activities include remedial investigation, remedial designs, remedial action, and long term maintenance operations and monitoring for active and designated closure/conversion bases. In connection with these activities, ER does technical oversight of environmental programs, performs laboratory quality assurance assessments, reviews documents, and assists in selecting remediation technologies. Additionally, the organization serves as the focal point for restoration, compliance, and pollution prevention technology evaluation, application, and transfer from laboratory to the field. ER is comprised of the Base Conversion Restoration, Consultant Operations, Environmental Restoration, and Technology Transfer divisions.

Base Conversion Restoration Division (ERB) **(Tel: 210.536.5255/DSN 240.5255)**

Bergstrom Regional Operating Location (ROL)

The Air Force Base Conversion Agency (AFBCA) Regional Operating Location (ROL) at the former Bergstrom AFB, Texas, was officially closed on September 30, 2001. This office was responsible for five BRAC (closure) bases: Bergstrom and Carswell in Texas; Eaker in Arkansas; England in Louisiana; and Williams in Arizona. ERB has been performing the BRAC Environmental Coordinator (BEC) duties for these five bases since October 2000 and will continue to do so.



The ERB staff.

Last Remedy in Place (LRIP)

Mr. Charles Pringle successfully managed the Bergstrom ROL that achieved Last Remedy in Place (LRIP) milestones at Carswell and England AFBs in September 2001. The Texas Natural Resource Conservation Commission (TNRCC) and Environmental Protection Agency Region VI concurred on the Carswell LRIP while the Louisiana Department of Environmental Quality (LDEQ) and EPA Region VI, signed off on the England LRIP. The Air Force Decision Documents for both bases were signed by the director of the Air Force Base Conversion Agency.

Land transfer

A Findings of Suitability to Transfer (FOST) at Bergstrom was accomplished by ERB, resulting in the transfer by deed of 1,500 acres of the former Air Force base to the city of Austin. So far, 84 percent of the 3,194 acres of the base's property has changed ownership, and the remaining 521 acres are scheduled to go to the city in January 2002.

Kelly AFB performance-based cleanup contracting projects

Since 1999 AFCEE has been evaluating the performance-based contracting approach to environmental cleanup projects. In environmental restoration performance-based contracts, the goal is to achieve site closure and regulator approval with minimal Air Force involvement, and the contractor is given maximum flexibility and latitude to achieve this goal. AFCEE initiated a pilot program and evaluated four sites on which to try out performance-based environmental cleanup.



The first project was completed in December 2000, three months ahead of the contractor's schedule and six months ahead of the Air Force's. The project involved the removal and cleanup of contaminated soil and three oil/water separators from Kelly AFB, Texas. Mr. Patrick Atkinson was the project/program manager. The goal was to achieve site closure so that the base could be transferred to the city of San Antonio. As a result of this initiative the oil/water separators have been closed under conditions exceeding regulatory standards and at no additional cost to the government.

Castle solar-powered mobile groundwater treatment plant

Innovative technology and proactive plume management are speeding up the groundwater remedial action at the former Castle AFB, now Castle Airport, in California's Central Valley. The use of innovative technology — in the form of a solar-powered mobile groundwater treatment plant — is enabling the Air Force to clean up isolated contamination. The result is faster response, reduced costs, and better protection of the drinking water used by the nearby town of Atwater.

The trailer-mounted solar wagon is a miniature pump-and-treat system that runs on power generated by eight solar panels producing up to 168 volts of electricity, depending on the amount of available sunlight. The wagon's solar panel array, which covers an area of about 58 square feet, is composed of photovoltaic (PV) cells that convert sunlight directly into electricity, powering the unit's pump. A tracking device enables the PV array to follow the sun across the sky, enabling the system to receive the greatest amount of sunlight possible.



The solar-powered groundwater treatment plant at work.

Starting in January 2001 the mobile plant began removing trichloroethene (TCE) from a small, contaminated area at a remote Castle site. It has been operating uninterrupted since May, pumping water at rates ranging from 7 to 10 gallons per minute — the system's maximum capacity. At the end of June, 760,000 gallons of contaminated water had been treated and two-and-a-half ounces of TCE removed from the water, which was then returned in a clean condition to the local aquifer. The solar wagon has already demonstrated that it will still pump 70 percent of its maximum capacity in the dimmer midwinter sunlight.

The Jacobs Engineering Group developed the solar wagon based on recommendations by Castle environmental officials and AFCEE team chief Bob Chang.

Consultant Operations Division (ERC)
(Tel: 210.536.5244/DSN 240.5244)

ENRAC

The Consultant Operations Division supported the acquisition of the newest environmental cleanup contract program called Environmental

Remediation and Construction (ENRAC). This \$750 million source selection-type contract brought fourteen world class remedial action and construction contractors to serve AFCEE's worldwide clients for the next five years. The acquisition was completed on a very short timeline with no protests. In fact, unsuccessful proposal contractors complimented the selection team on its thoroughness and fairness.



The ERC staff.

Technical support

ERC chemistry technical support has been instrumental in helping Air Force bases meet their environmental requirements. Ms. Wissam Saad and Mr. Edward Brown audited two laboratories in Ohio and Illinois that provided needed technical support for programs at Chanute AFB, Illinois; Grissom AFB, Indiana; and Plattsburg AFB, New York. Mr. Burt Harrison audited two laboratories in Spain that provided technical support and coordination of field sampling and analyses for several United States Air Forces in Europe bases in Italy and Spain, including an emergency groundwater environmental survey at Moron Air Base, Spain.

Air Force Space Command was able to save more than \$7 million in FY 2001 by implementing a recommendation made by ERC. After conducting an extensive technical review of an F.E. Warren AFB, Wyoming, remedial action project to excavate and consolidate the contents of the installation's landfill four, the division proposed that a comprehensive review first be made of state landfill siting regulations. The review indicated that the rules allowed the landfill to remain in its current location if the surface hydrology in the 100-year floodplain was not compromised. ERC then proposed that SPACECOM and the base conduct inexpensive studies to determine the possibility of surface erosion at the landfill and other installation sites. After the studies indicated no possibility of damage to the floodplain, the project was shelved, resulting in a cost-avoidance of \$7.7 million for the command and the base. An added bonus is the \$48 million that will be saved by not having to relocate nine other landfills that are on the same floodplain.

Dr. Doris Anders' participation in the formal dispute resolution hearings and development of the list of review panelists for the Air Force was essential in establishing the wildlife toxicity reference values (TRVs) that resolved the formal dispute between the California Department of Toxic Substances Control (DTSC) and Vandenberg AFB. DTSC was attempting to impose inappropriate TRVs on several DOD facilities in California, with a multimillion-dollar cost impact. Dr. Anders' involvement in the Tri-Service Ecological Risk Assessment Workgroup assured that Army and Navy facilities were alerted about the state's intent. The three services protested in concert, with Vandenberg filing for formal dispute resolution. The independent review panelists, chosen for their expertise in toxicology and wildlife ecology, were all from academia. These new TRVs will allow Vandenberg to move forward in its cleanup program and establish more cost-effective criteria for future Air Force and DOD remedial action programs in California.

Environmental Restoration Division (ERD) (Tel: 210.536.5231/DSN 240.5231)

Fiscal year 2001 was another banner year for ERD. Although its program was not quite as large as the previous fiscal year's, the division successfully executed approximately



\$285 million in environmental cleanup projects for its customers. This figure included \$48 million for the Defense Energy Support Center, \$79 million for Operations and Maintenance-funded cleanup, and \$158 million for Environmental Restoration Account customers.

Brooks City-Base

One particularly significant success story was ERD's support of the Brooks City-Base project.

The division successfully coordinated and managed the base environmental team's effort to prepare Brooks property for transfer to the city of San Antonio. ERD aggressively developed and executed environmental projects in coordination with the base contracting directorate to meet the installation's eighteen-month, fast-track property transfer schedule.



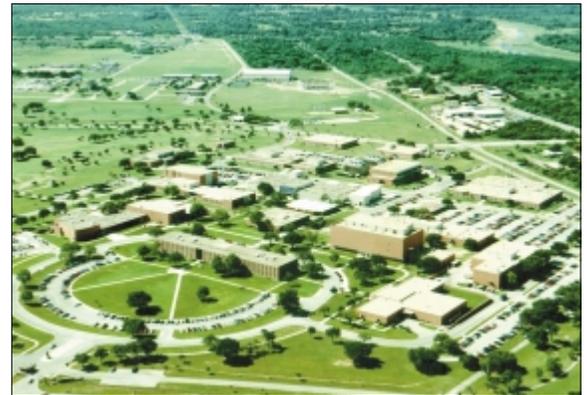
The ERD staff.

Altus AFB, Oklahoma

ERD successfully coordinated and managed the environmental team effort for \$21 million worth of work to characterize fifty-five sites under an EPA 3008(h) order. The contract requires the contractor to complete a base-wide Resource Conservation and Recovery Act Facility Investigation/

Investigative Analysis/Corrective Measures Study. The first draft of the reports is due to the EPA in July 2002. Through storyboard

meetings, the ERD staff developed an excellent working relationship with the EPA, resulting in enhanced communication between the two organizations. The topics discussed at the meetings served to minimize any possible report deficiencies. They included site characterizations, risk assessments, and schedules.



ERD assisted with the Brooks City-Base project, preparing for the transfer of base property to the city of San Antonio.

The Massachusetts Military Reservation (MMR)

ERD continued to excel at accomplishing the most visible and highly politically sensitive cleanup effort in the Department of Defense.

Some examples:

- ◆ The on-site staff at MMR, using computer modeling, convinced the regulatory agencies that chemical spill area 22 required only a site-specific soil removal (engineering estimate/cost analysis, action memorandum/source removal) and not a remedial investigation. The demonstration showed the regulators that any contamination reaching the groundwater would ultimately be captured by an existing down-gradient groundwater treatment system.



Field representatives take contamination readings from a waterway at the Massachusetts Military Reservation.

- ◆ Led by Mr. Robert Gill, the on-site staff has established a high rapport with state and federal regulators. This level of cooperation made it possible for the staff to obtain agency approval and community buy-in for the Fuel Spill I Wellfield Design. As a result of this proactive coordination with regulators and community stakeholders, a \$9 million project was reduced to \$2.4 million and yet still met Record of Decision goals for timely aquifer restoration and protection of the public health.
- ◆ The MMR staff developed new site-specific, soil target cleanup levels for source area remediation. Solid science and community education resulted in reducing the volume of soil treated from 53,000 tons to 17,000 tons, avoiding \$5.4 million in costs while still eliminating all risk-based ecological and human health concerns.
- ◆ The staff came up with the innovative idea of treating Ashumet Pond with alum to reduce the phosphorous coming from the Ashumet Valley plume. Close work with town and regulatory agencies resulted in a successful application of the sulfate, an action that will improve the pond's water quality and restore it as a natural fish habitat.

Elmendorf AFB, Alaska

ERD's Alaska Field Office managed an expedited cleanup of contaminated soil and debris at a \$480 million privatized housing project, ensuring the homes are safe for future occupants and completed on schedule. In June 2001, workers discovered petroleum residue and a buried Quonset hut at the site. By September, 800 cubic yards of soil and 500 cubic yards of debris had been hauled away, replaced with clean soil, and the site turned back to the construction contractor. The hut debris was sent to a municipal landfill. The soil was segregated into nearly 1,300 one-cubic-yard "supersacks," and each sack was screened for specific environmental contaminants. The use of this screening technique reduced the volume of soil requiring shipment for disposal to 85 cubic yards, thereby reducing the total disposal cost to \$108,000 – significantly less than the original estimate of \$1.5 million to ship all of the excavated soil. The balance of the excavated soil met state residential cleanup standards and was used as fill in the closure of an old base landfill.

Technology Transfer Division (ERT) **(Tel: 210.536.4331/DSN 240-4331)**

Remedial Process Optimization

ERT continued implementing the Remedial Process Optimization (RPO) protocol, which is designed to maximize risk-protective and cost-effective site closure. The RPO streamlines the operation and monitoring of existing remedial actions and prepares



areas for expedient Operating Properly and Successfully demonstrations and site closure.

With support from the Defense Logistics Agency (DLA), the Remedial Process Optimization Handbook was published on the AFCEE Web site at

www.afcee.brooks.af.mil/er/erproducts.htm during FY2001. RPO has

lead to significant savings at Air Force installations. For example, at Eielson AFB, Alaska, RPO activities accelerated closure of three contaminated soil sites, avoiding more than \$1 million in costs associated with system operation and maintenance. Also, by optimizing pump-and-treat systems, the DLA is saving more than \$900,000 annually at its Defense Depot San Joaquin Sharpe and Tracy site in California.



The ERT staff.

Passive Diffusion Bag Samplers (PDBS) User's Guide

During FY2001, ERT, in conjunction with an interagency workgroup, published the PDBS User's Guide, which is available on the Interstate Technology Regulatory Cooperation Web site, www.itrcweb.org. The group is composed of representatives from the Air Force, Environmental Protection Agency, U.S. Army Corps of Engineers, Defense Logistics Agency, Interstate Technology Regulatory Cooperation, United States Geological Society, and the Navy.



Workers load fuel-contaminated soil in "supersacks" at Elmendorf AFB, Alaska.

The PDBS eliminates or substantially reduces the amount of purge water associated with sampling. The samplers are relatively inexpensive and easy to deploy and recover. Because the PDBS is disposable, there is no down-well equipment to be decontaminated between wells, and there is a minimum of field equipment required. The sampler is capable also of delineating contaminant stratification in the open or screened intervals of observation wells. This information is paramount for remedial action optimization.

ERT implemented the use of the PDBS at sixteen DOD installations from Eielson AFB, Alaska, to Hickam AFB, Hawaii. Results show a high degree of correlation between the PDBS and traditional sampler analytical results while realizing savings of more than 50 percent.



An environmental worker prepares polyethylene-based diffusion bag samplers for testing in a sampling well.

ER's FY 2001 Program

Program total for FY 2001 was \$430,874,089.

The following figures include the value of projects obligated in FY 2001 and all ongoing work carried over from previous years.

Organization

Third-Party Sites	\$ 4,671,389
Air Combat Command	26,846,055
Air Education and Training Command	49,916,713
AF Base Conversion Agency	695,878,421
AFCEE	125,197,639
AF District Washington	2,839,398
AF Materiel Command	88,920,972
AF Research Lab	19,976
AF Special Operations Command	2,578,059
AF Space Command	73,167,116
Air Mobility Command	52,169,756
Air National Guard	481,262
Army	11,903,392
Aeronautical Systems Center	29,596,583
Defense Energy Support Center	95,579,066
NASA	12,241,305
Pacific Air Forces	187,835,435
U.S. Air Force Academy	4,531,943
U.S. Air Forces Europe	47,335,506

TOTAL	\$1,511,709,986
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Environmental Conservation and Planning (EC) (Tel: 210.536.3907/DSN 240-3907)

Much of Environmental Conservation and Planning's work has direct and immediate impact on the Air Force mission. The directorate serves as the center of expertise for the Air Force Environmental Impact Analysis Process (EIAP), executes the Air Force's Natural and Cultural Resources programs, is the focal point for the Air Force Comprehensive Planning Program, execution agent for the Air Force GeoIntegration Office, and the home of the AFCEE Range Support Unit.

EC is involved in such issues as environmental impact statements, base-line surveys, forestry, wildlife, archeology, Native American consultations, transportation, air space and range management, and noise. EC also staffs planning assistance teams that travel throughout the world to help Air Force organizations solve base-planning issues.

EC is made up of three divisions and two independent program offices: the Environmental Analysis (ECA), Consultant (ECC), and Environmental Planning (ECP) divisions, the GeoIntegration Office, and the Range Support Unit.

Environmental Analysis Division (ECA) (Tel: 210.536.3787/DSN 240.3787)

ECA was involved in a number of successful accomplishments in the areas of Environmental Impact Statement (EIS), Environmental Assessment (EA) and Environmental Baseline Survey (EBS):



The ECA staff.

✦ Division staff helped Air Force Space Command complete on time and within budget the EIS process for dismantling the Minuteman III missile system at Grand Forks AFB, North Dakota. Doing so was essential for complying with the Strategic Arms Reduction Treaty (START). Delays in the start of the demolition process could have resulted in non-compliance with treaty requirements, causing embarrassment to the United States.

✦ Division staff assisted Buckley AFB, Colorado, in completing several EAs as the base continued its transition to an active-duty installation. These Military Construction (MILCON) and Operations and Maintenance (O&M) projects (e.g., wing headquarters facility, fitness center, temporary lodging facility) will increase the existing infrastructure and quality of life to support the bed-down of the 460th Air Base Wing.

✦ ECA prepared EBSs ranging in size from single facilities to entire bases, both in-house and by contract. Division members also represented Air Force interests in developing the standards published by the American Society of Testing Materials (ASTM) for preparing EBSs for Department of Defense real property transfers and are currently involved in revising the April 1994 version of Air Force Instruction 32-7066 on preparing EBSs.

Consultant Division (ECC) (Tel: 210.536.3334/DSN 240.3334)

The Consultant Division is comprised of specialists who provide a diverse array of services and support to AFCEE customers in the areas of comprehensive planning, noise, natural and cultural resources, air quality, forestry, and socio-economic impact studies. The division supports the Air Force Civil Engineer in the formulation of policy and guidance to ensure Air Force programs are properly executed and maintained.



The ECC staff.

Comprehensive Planning

- ◆ ECC hosted the Garrison Planning Integrated Process Team Workshop, which produced a number of recommendations to improve planning processes, practices, and products. It brought together a cross-section of command, installation, industry, and customer perspectives focusing on improving the Air Force's planning program.

- ◆ Division staff supported the command and installation mission by providing 10 Planning Assistance Teams. ECC managed teams that provided facility use, flightline development, land use, commercialization, and other planning support for CONUS installations and locations in Korea and the Pacific Islands. These teams provide tailored support for the base civil engineers and the major command civil engineers.

- ◆ ECC, in conjunction with other DOD and State of Massachusetts Trustees, launched the Pre-Assessment Screen (PAS) for the Massachusetts Military Reservation (MMR). The PAS is the initial step in determining the extent of injury to natural resources and the potential for award of monetary damages to MMR Trustees.

- ◆ ECC hosted the Safety-Civil Engineering Workshop to discuss issues of common concern and develop a closer working relationship in executing explosives safety site planning requirements. A number of cooperative actions were identified which will facilitate meeting DOD Explosives Safety Board requirements.

Air Installation Compatible Use Zone (AICUZ)

ECC provided a wide range of services supporting the AICUZ Program and noise analysis associated with environmental planning. Staff members continued their support of the major commands by conducting aircraft operational data collections at installations worldwide to develop updated noise footprints. In FY 2001 the noise team traveled to Selfridge Air National Guard Base, Michigan; Shepherd Field/Eastern West Virginia Regional Airport in Martinsburg West Virginia; Des Moines, Iowa, International Airport; Eielson AFB, Alaska; Aviano Air Base, Italy; and Incirlik Air Base, Turkey.

Other notable AICUZ achievements:

- * ECC supported the major commands by conducting in-house environmental noise analyses for a number of installations worldwide, including Andrews AFB, Maryland; Laughlin AFB, Texas; and Yokota Air Base, Japan.

- * ECC supported the major commands by reviewing drafts of environmental noise analyses and AICUZ reports for a number of installations worldwide, including Altus AFB, Oklahoma; Volk ANGB, Wisconsin; and Yokota Air Base.

- * ECC managed the contract for mapping aircraft operational noise at two ranges in South Korea.



- * ECC funded mapping and operational improvements to FPView, the computer flight profile projection software.
- * The division continued to assist Air Staff with the revision of the Air Force Clear Zone criteria.
- * The division supported Air Staff and the major commands by providing aircraft noise data for use at a number of locations worldwide, including the U.S. Embassy in Tunisia, Laughlin AFB, Texas; Eglin AFB, Florida; and Aviano Air Base.
- * The division supported Air Staff and the major commands by providing AICUZ siting and regulatory assistance for a number of locations worldwide, including Luke AFB, Arizona; Bolling AFB, D.C.; and Aviano Air Base.
- * The division provided technical assistance to a number of contractors who encountered problems using the NOISEMAP computer program while performing noise analyses for the Air Force and other services.
- * The division presented an environmental noise training module for the USAF School of Aerospace Medicine's Bioenvironmental Engineering Officer's course at Brooks AFB.
- * ECC assisted Travis AFB, California, and the Solano County Airport Land Use Commission in planning the first public workshop for the release of an updated joint land use study for the Travis AFB community.
- * The division assisted ECP and ECA with developing requirements for the noise analysis section of the Joint Strike Fighter Basing Study.
- * The division assisted Air Staff in developing and prioritizing a list of DOD and Air Force Noise Program requirements and in revising DOD Instruction 4165.57, Air Installations Compatible Use Zones (AICUZ).

Forestry

- * ECC conducted operational field tests at Ellsworth AFB, South Dakota, and Charleston AFB, South Carolina, for a new software/hardware tool to detect tree penetrations of airspace clearance surfaces. The ability to map trees that pose an obstruction to airspace in "real time" will assist airfield managers to identify and correct problems.



More than 120 persons attended a forest-management workshop organized by ECC at the Air Force Academy.

* ECC provided technical expertise and budget management support for the Air Force Reimbursable Conservation Program. The division worked with major commands, installation managers, and the Defense Finance and Accounting Service to account for the proceeds and expenditures generated from agricultural lease management, forest product sales, and hunting and fishing programs on Air Force installations.

* The division was host to the 2001 DOD Forest Management Workshop in September at the Air Force Academy, Colorado Springs, Colorado. More than 120 attendees from the armed services attended joint sessions as well as individual service breakout sessions for the Army, Air Force, and Navy/Marines. The workshop focused on management strategies, success stories, and new technologies for managing forestlands.

* AFCEE's archaeologist represented the Air Force on the Department of Defense Integrated Product Team for Curation of Archaeological Collections. The Curation IPT meets three to four times a year to discuss policies, guidelines, and better management methods for collections of archaeological artifacts and other remains from DOD installations in North America and the Pacific.

* The division completed major revisions to Air Force Instruction 32-7065, *Cultural Resources Management Programs*. Drafts of the revised AFI are under review and publication is expected in FY 2002.

* A cooperative agreement with the Lewis and Clark National Forest archaeology staff was arranged to complete archaeological surveys at Malmstrom AFB, Montana. The AFCEE archaeologist also participated in the fieldwork along with the LCNF archaeologist, and the Malmstrom cultural and natural resources manager.

* ECC managed the contract for a long-term study of the noise effects of military overflights on the Sonoran pronghorn at the Barry M. Goldwater Range in Arizona. It also managed contracts for preparation or revision of Integrated Natural Resource Management Plans (INRMPs) for Buckley AFB, Colorado; the Barry M. Goldwater Range; Columbus AFB, Mississippi; Dobbins Air Reserve Base, Georgia; and Keesler AFB, Mississippi.

* The division supported Air Staff by tracking INRMP completions mandated by the Sikes Act and preparing the congressionally mandated Endangered Species Expenditure Report.

* The ECC cultural resources specialist provided advice and guidance on the identification and preservation of historic properties affected by the Air Force's proposed conversion of Brooks AFB from federal to private ownership and operation. The specialist also conducted a historic property survey on the condition of the Bungalow Colony for the Air Force Base Conversion Agency at the former Kelly AFB, Texas.



A pronghorn antelope grazes on an Air Force base in the Western United States.



Air Quality

Achievements in this area included:

◆ Technical and contractual assistance in support of the General Conformity Rule under the Clean Air Act. The Air Conformity Applicability Model was retooled to meet the stringent requirement of quantifying emissions based on preliminary information from a federal action. Projects that involved the temporary relocation of a squadron of planes to a heavily regulated installation and bed-down of laser-based aircraft were two of the most complex analyses undertaken in FY 2001.

◆ ECC developed an air quality checklist for National Environmental Policy Act-related documents for contractors and government reviewers to ensure the documents could be legally defended.



Botanist Mary Anderson helps archeologist Dr. James Wilde remove the eggs of invasive birds from a purple martin house. The ECC staffers helped organize AFCEE's celebration of International Migratory Bird Day in May.

◆ Contractual work continued to include additional air compliance related projects, such as air emissions inventories, permit applications, cost of compliance, compliance through pollution prevention, stack testing, and air quality management plans. EC currently manages air quality projects totaling approximately \$4 million per year.

Environmental Planning Division (ECP) (Tel: 210.536.6544/DSN 240.6544)

Facility Use Surveys (FUSs)

The division managed the preparation of FUSs for Tyndall AFB, Florida; Buckley AFB, Colorado; and multiple Air Force Material Command (AFMC) bases (right-sizing studies). The Buckley AFB FUS was critical for supporting the Military Construction budget cycle as Buckley converted from an Air National Guard to an Air Force Space Command base. ECP developed, awarded, and is managing a multimillion-dollar contract for AFMC. The contract provides the basis for informed decision-making on space allocations and other facility utilization issues for existing and proposed missions at nine AFMC business centers.



The ECP staff.

General Plans

The division managed the preparation of General Plans, General Plan Updates, and General Plan Electronic deliverables, and multimedia Commander's Summaries. General Plan documents and CD ROM presentations were completed for: Dover AFB, Delaware; Wright-Patterson AFB, Ohio; McChord AFB, Washington; McGuire AFB, New Jersey; McEntire Air National Guard Base, South Carolina; and Andrews AFB, Maryland. Commander's Summaries were completed for Grand Forks

AFB, North Dakota; McConnell AFB, Kansas; Scott AFB, Ill.; Pope AFB, North Carolina; Travis AFB, California; Andrews, Charleston AFB, South Carolina; and McChord AFB. Commander's Summaries for Fairchild and McGuire AFBs are 95 percent complete and will be finished before the end of 2001.

Traffic Engineering

In FY 2001, AFCEE received and processed sixteen Traffic Engineering Needs Requests. After being reviewed for accuracy, appropriate documentation, and funding, the reviews are forwarded to the Military Traffic Management Command for prioritization and execution.

CADD/GIS

AFCEE represented the Air Force on the CADD/GIS Technology Center's Board of Directors and Corporate Staff. These two groups provide guidance and direction for accomplishing CADD/GIS Technology goals and objectives. AFCEE's representatives ensure that Air Force and DOD interests were articulated in developing and managing the CADD/GIS Technology's \$3.3 million FY 2001 work plan.

Explosive Safety

As a subgroup of the Armament Infrastructure and Support Panel, Facilities Sub-Panel, ECP developed a contract statement of work for preparing a munitions facility design guide(s) and a master plan. The design guide(s) will be used as a yardstick to be applied to existing munitions assets. The variations between the yardstick and real-world conditions would serve as foundation for development of a strategic vision, with 25-, 5- and 1-year action plans and goals. AFCEE is currently seeking funding to execute this effort.

GeoBase Integration Office

GeoBase and GeoReach are supporting the Air Force mission as the visual foundation for providing the real time situational awareness to our garrison and expeditionary units worldwide. HQ AFCEE EC-GIO has been tasked to implement the integration requirements of this Air Force program. Currently managing \$2.4 million in Air Force-wide GeoBase projects with an additional \$4.5M pending, the EC-GIO is positioning for rapid support of 2002 Air Force customers.

The AFCEE EC-GIO has reached out, through a series of meetings and projects, to Communications, Security Forces, Safety and Surgeon General communities of practice to integrate their requirements into the GeoBase geo-spatial platform. The division continues to partner with sister agencies, including the CADD/GIS Technology Center, to facilitate adoption and integration of Spatial Data Standards (SDS); and with HQ AFCEA to integrate Automated Civil Engineering System (ACES) requirements into the GeoBase program.

Range Support Unit (RSU)

Ranges are an emerging issue, publicly and politically sensitive, yet critical to the readiness of Air Force combat power. AFCEE is dedicated to supporting Air Force readiness through finding solutions to Air Force range operator issues/problems. Some of the services the center has available in its tool kit to assist customers with include: range maintenance/residue removal; noise studies; natural/cultural resources assistance studies; environmental impact analysis; Air Force Civil Engineer Support Agency – ARC and EOD; air emissions studies; range inventory studies; and chemical residue remediation

In its first full year of operations, the RSU answered the call on numerous occasions to provide technical assistance to Air Force customers ranging from the Air Staff to major commands and bases.



In FY 2001, projects worked by the unit included: review of a statement of work for Air Combat Command for Poinsette range clean-up; executed via contract range residue resource recovery for the Range Management Office, Nevada Test and Training Range; and provided input to the Air Force range inventory questionnaire in response to congressional inquiry.

Members of the RSU also participated in the Air Force Large Range Working Group and Explosive Ordnance Disposal Panel; worked on an unexploded ordnance (UXO) project in conjunction with the Air Force Civil Engineer Support Agency on closed ranges at Vandenberg AFB, California; and made a presentation on encroachment on military operations at the United States European Command Environmental Conference.

In addition, the RSU staff participated in the Range Commander's Council, Range Environmental Group (REG); reviewed several DOD and Air Force range and/or UXO related documents for Air Staff; and planned and coordinated the range session at the 6th Annual Joint Services Pollution Prevention and Hazardous Waste Management Conference and Exhibition.

EC's FY 2001 Program

Program total for FY 2001 was \$14,357,528

The following figures include the value of projects obligated in FY 2001 and all ongoing work carried over from previous years.

Organization

Air Combat Command	\$1,246,717
Air Education and Training Command	2,989,668
Air Force Base Conversion Agency	556,743
Air Force Center for Environmental Excellence	582,623
Air Force Materiel Command	6,606,206
Air Force Reserve Command	126,996
Air Force Space Command	2,930,407
Air Force Special Operations Command	99,266
Air Mobility Command	2,167,941
Air National Guard	389,106
Air Staff	206,459
Pacific Air Forces	1,217,997
United States Air Forces Europe	1,240,461
Air Force Reimbursable Conservation Program	4,358,000
Other	10,399,016

TOTAL

\$35,117,606

Environmental Quality Directorate (EQ) (Tel: 210.536.3371/DSN 240.3371)

The Environmental Quality Directorate supports compliance and pollution-prevention programs worldwide. Through its Compliance and Pollution Prevention (P2) Services and Programs divisions, EQ identifies, supports, and develops a multitude of compliance and pollution prevention programs for major commands and installations alike.



The EQ staff.

New tools were the lynchpin for EQ's record-setting FY 2001. New faces, new contracts, and new customers all added up to the directorate's best year yet. With new leadership in both divisions as well as the directorship, a re-energized EQ provided first-class service to more than 70 installations worldwide.

Programs Division (EQP) (Tel: 210.536.3340/DSN 240.3340)

Home to many of the directorate's most popular and lasting programs, EQP saw 2001 as a way to change the status quo, either through improving old favorite programs or implementing programs to lead the Air Force into the future.

PRO-ACT

DOD's premier environmental clearinghouse and research service remained an EQ and Air Force success story. PRO-ACT provides real-time, on-line assistance to active-duty Air Force, Air National Guard, Air Force Reserve, civilian personnel, and Air Force contractors that hold active work orders. During FY 2001, PRO-ACT answered more than 986 technical inquiries in such areas as regulatory compliance interpretation, product substitutions, hazardous materials management, and the identification of education and training resources and requirements. Additionally, the PRO-ACT Web page received more than 1.3 million hits.



Barbara Williams, left, and Joan Kuecker work at the downtown PRO-ACT office.

But PRO-ACT didn't stop there. Advertisements with the General Services Administration, partnerships with major commands and Air Staff, as well as more and more outreach, solidified PRO-ACT as a growth business. A new contract and a new desire to serve means that PRO-ACT will be the Air Force's best source of environmental information for years to come.

Web University

There is a new player in the education and training of Air Force people. Launched in August 2001, Web University features structured, self-paced Web courses, a repository of distance learning courses, and links to a wide range of civil engineering and environmental management resources and tools. Registered students can take classes, update student records, or obtain transcripts using the Internet, and course owners can access reports that are useful in assessing user trends, calculating return on



investment, cost per student, and other purposes. More than 2,100 students have accessed Web University, with more than 80 percent completing all lessons. Additional courses, such as one on sustainable development, will be added in 2002.

Automated Civil Engineering System (ACES)

The newest management initiative in the Air Force is also the largest and most technically complex, and EQP is playing an important part in its development. The Automated Civil Engineering System (ACES) Environmental Management (EM) program is being designed to manage programs in all environmental media. As a key member of the Integrated Process Team (IPT), chartered to identify business practices and data requirements, EQP representatives: identified environmental areas requiring automation; reviewed several legacy systems; orchestrated a selection process between hazardous waste systems; and developed and approved a plan to deliver the requirements to the ACES system development office. The successful completion of the ACES-EM IPT mission will be to provide a single information doorway for all environmental requirements.

Compliance through Pollution Prevention (CTP2)

The Compliance through Pollution Prevention (CTP2) process is the next step up the Air Force environmental program evolutionary ladder. Integrating pollution prevention techniques into the compliance program, CTP2 promises to redirect installation efforts toward compliance and pollution prevention. EQP is assisting with revising Air Force Instruction 32-7080, *Compliance Assurance and Pollution Prevention*, to codify the CTP2 process. The EQP *Compliance through Pollution Prevention Installation Handbook* will aid installations in implementing this promising new program.

Environmental Compliance Assessment and Management Program (ECAMP)

EQP manages the Air Force Environmental Compliance Assessment and Management Program (ECAMP), which in FY 2001 had a total program in excess of \$9 million, enabling about seventy-four ECAMP compliance audits to be conducted worldwide. Every Air Force installation with significant environmental activity must annually conduct either an internal or external compliance audit.

EQP is the Air Force representative on The Environmental Assessment and Management Team (TEAM), a group of government agencies responsible for updating and coordinating the TEAM guide and supplemental environmental protocols. Quarterly protocol updates provide the installation with current environmental laws, guidance, policy, and practices to assist installations with their ECAMP audits.

EQP also tracks the root causes of all the environmental assessment audit findings. In FY 2001, the majority of findings were in the areas of hazardous waste management, hazardous materials management, and storage-tank management. Specifically, audits found that a majority of the findings resulted from procedures not being developed, or if they were developed were not effectively implemented; and personnel, although they had received training, did not fully understand requirements.

In FY2001 EQ took another step in the development of the Environmental Management Self-assessment tool (EMSAT2000). The

update allows individuals that have Access 2000 the ability to use EMSAT. EMSAT2000 like EMSAT99 allows users to evaluate their environmental management programs as well as assess how the programs relate to the ISO 14001 protocols. The new version of the program and user guide are available for downloading from the AFCEE/EQ Products Web page at www.afcee.brooks.af.mil/eq/emsat/emsat.htm.

Compliance and P2 Services Division (EQT) **(Tel: 210.536.4222/DSN 240.4222)**

Environmental Minor Construction and Operations and Services (EMCOS)

The Environmental Minor Construction and Operations and Services (EMCOS) contract was a great resource for EQT in FY 2001. The contract is primarily designed for environmental minor construction, operations, and services requirements for small-dollar, non-complex, base-level projects. It supports AFCEE and its customers in achieving environmental objectives in the areas of environmental compliance, environmental restoration, environmental conservation, and other environmental services at various government installations and locations worldwide. With five basic indefinite delivery/indefinite quantity contracts sharing and competing for \$45 million over three years, EMCOS is sure to impact the way AFCEE and its customers do business. Following are some examples of how the contract served the Center's customers in FY 2001.

- The wastewater/storm water section of EQ used new EMCOS contracts to correct environmental compliance problems instead of just identifying them. Using the contract, EQT became a "one-stop shop" for fixing environmental problems, such as repairing lift stations, steam pits, and wastewater/storm water pipes; and installing storm water sampling devices in locations throughout the Air Force.

- In November 2000, the Texas Natural Resource Conservation Commission proposed sixteen new rules as part of the State Implementation Plan (SIP) for reducing emissions of nitrogen oxides (NOx) in the Houston/Galveston area. The new regulations require a 90 percent reduction in the NOx from point sources. These new regulations will affect operations at the NASA Johnson Space Center, Ellington Field, and the Sonny Carter Training Facility. AFCEE performed an analysis of the new regulations to determine their impact on the three affected NASA facilities.

Based on this analysis, NASA will achieve NOx reduction goals by using control technologies on boilers at the space center. Also, the analysis set a timeline for the agency to meet regulatory deadlines. This timeline and estimated costs will help NASA plan, program, and budget future air-quality projects in order to meet the requirements of the new SIP regulations.

- EMCOS enabled EQT to partner with Vandenberg AFB, California, in assessing decontaminating, and demolishing a large facility that had been partially destroyed by fire. The team was then able to assess the actions to be taken with the remainder of the building so that it could be reused after the smoke damage was cleaned.

Ranges and military munitions

EQ continued to play a major role in the Range Support Unit in FY 2001. This year saw the completion of the initial version of *Range Residue Management - A Guide for AFCEE Range Residue Project Managers and State Military Munitions Rules Impact on Air Force Installations*. Copies of these documents were provided to each of the other services and the Defense Logistics Agency in April 2001 at the Tri-Service Environmental Support Centers Coordinating Committee meeting. This year, also, several projects related to range operations improvements were initiated. These include the BDU-33 Model Target Guide, a concept of operations for range design, and a



template for comprehensive range management plans.

In January, EQT personnel participated in a joint assistance visit to Vandenberg AFB with Air Force Civil Engineer Support Agency and Air Force Space Command personnel. The visit focused on safety issues and the closed World War II ranges and maneuver areas that cover approximately 70,000 acres on the base. The visit resulted in the drafting of an action plan that deals with access to these areas and the risk of exposure to unexploded ordnance there. The needs of the base, the major command safety offices, and the civil engineering flight were kept in mind when developing the plan.

Providing service to customers is what AFCEE is all about, and EQT provided top-notch service to the Nevada Test and Training Range (NTTR) in the area of range residue resource recovery (R4). More than six million pounds of material were processed, of which 5.5 million were shipped off-site for recovery. The method of execution selected for this project allowed over \$ 170,000 of additional effort to be performed for the customer, using the resources recovered through metals recycling.

Affirmative procurement and sustainable development

The affirmative procurement and sustainable facilities programs continued their maturation and reached more people than ever by using the Web. Two e-mail list servers on DENIX were started for the DOD affirmative procurement and sustainable development communities. After a few months, each had over 150 members interacting with one another to develop and improve their own programs.



Workers pick up residue from the Nevada Test and Training Range.

Drafting the new Sustainable Facilities Guide will ensure that program and facility managers alike have the most up-to-date information in 2002.

Winning the War Against Waste

A brand new Air Force solid waste management outreach campaign, which had been under development for the last year, was released in August 2001 for installation use. The Win The War Against Waste campaign educates active-duty and civilian Air Force personnel, family housing occupants, and school children on the importance of integrated solid waste management activities at installations throughout the Air Force. The campaign will assist installations in meeting their non-hazardous solid waste diversion rate measure of merit and may help reduce the cost of sending municipal solid waste to landfills.



A worker uses a torch to dismantle an old tank at the Nevada Test and Training Range.



EQ's FY 2001 Program

Program total for FY 2001 was \$29,284,686.

The following figures include the value of projects obligated in FY 2001 and all ongoing work carried over from previous years.

Organization

Air Combat Command	\$2,562,702
Air Education and Training Command	2,188,105
AF Base Conversion Agency	938,275
AFCEE	4,892,681
11 th Wing	169,159
AF Materiel Command	7,100,278
AF Reserve Command	800,761
AF Special Operations Command	638,495
AF Space Command	7,071,622
Air Mobility Command	8,177,581
Air National Guard	889,921
Air Systems Command	82,990
NASA	1,583,286
Other DOD	619,927
Pacific Air Forces	4,690,430
USAF	1,553,257
U.S. Air Forces Europe	2,717,186

TOTAL	\$46,676,656
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Design and Construction (DC) (Tel: 210.536.3433/DSN 240.3433)

Design and Construction advances installation excellence and Air Force quality of life through standards and criteria development, and execution of sound design and construction management principles. The directorate is also the Air Force's center of expertise for architecture, interior design, landscape architecture, medical facility design and construction management, design-build delivery methods of construction, and Military Family Housing (MFH) Privatization. Additionally, the directorate develops, tests, and documents new project management acquisition and construction methodologies.



The airman dining hall at Whiteman AFB, Missouri, was one of the honored projects in the Air Force Design Awards Program managed by the Design and Construction Directorate.

Further, professional services provided by DC include design and construction agent responsibilities for MFH construction, execution and maintenance of the Air Force Family Housing Master Plan, and management of the Air Force Design and Design and Construction Agent awards programs. The directorate also is AFCEE's single-point-of-contact for assistance teams (ATs). The directorate pulls planning expertise from the Environmental Conservation and Planning Directorate and draws from its own experts in architecture, interior design, and landscape architecture to help the major commands and installations solve planing and design issues.

DC is composed of three divisions: Design Group, MILCON, and Housing Privatization.

Design Group Division (DCD) (Tel: 210.536.3547/DSN 240.3547)

Plans/Guides

DCD partnered with the U.S. Green Building Council, publishers of the Leadership in Energy and Environmental Design (LEED) Green Building Rating System, to develop the *LEED Application Guide for Lodging*. This application guide provides a tool for the Air Force to design sustainable (green) dormitories, visiting quarters, and temporary lodging facilities. It also serves as a guide for evaluating the sustainability of existing facilities. The U.S. Green Building Council expects to export this tool to its users in the private sector, with application to hotels, motels, college dormitories, and similar facilities.



The DCD staff.

The General Officer Quarters Facility Standards were substantially completed and will soon be published and distributed to the Air Force's GOQ managers. The standards provide construction requirements as well as occupancy policies applicable to all Air Force General Officer Quarters.

Assistance Teams and Design Support

DCD fielded thirty-two AT visits in FY 2001, providing better products to customers by using such technological advances as portable scanners and computer aided drafting (CAD) systems.



The Air Force symbol on a base water tower.

At the direction of the Air Force Chief of Staff and in coordination with Air Force Public Affairs, DCD initiated a test program to determine the best method for displaying the new Air Force symbol on base entrance signs and water towers. Following a successful test period, DCD developed interim policy and guidance, subsequently approved by the Air Force Chief of Staff.

The division conducted an Air Force-wide building code workshop that addressed building codes, life safety, and accessibility issues.

DCD served as host with the Defense Commissary Agency, Army and Air Force Exchange Service, and major command senior facility representatives at a workshop to align approaches to facility excellence, develop protocols for decision-making, collaborate on mutually beneficial installation development methodologies, and promote standards of excellence that support Air Force and other Department of Defense needs. Topics discussed included community master planning, roles and responsibilities, programming, design standards, signage, and congressional oversight.

The division also organized, facilitated, and conducted a training workshop for Air Force architects as a breakout session to the American Institute of Architects' (AIA) Public Architects Training Workshop held in May 2001 in conjunction with the AIA Convention. The workshops, training sessions, expositions, and AIA seminars offered Air Force architects opportunities to learn design techniques practiced around the service, collect information on new materials, examine new construction techniques, and interact with private-sector professionals. Eighty-four Air Force and associated agency architects attended the session that covered topics such as housing privatization, general officer quarters, dormitories, and design awards, sustainable design, award-winning architecture using design build, and design for the entertainment industry. Speakers were from AFCEE, Air Force Materiel Command, and the private sector.

MILCON DIVISION (DCM) (Tel: 210.536.3382/DSN 240.3382)

Medical Facilities

As the designated design/construction managers for the Air Force Medical Military Construction (MILCON) program, the MILCON Division is at the forefront of the replacement and improvement of Air Force medical treatment facilities. In FY 2001, DCM completed and brought online seven new state-of-the-art medical



The DCM staff.



treatment facilities, either as stand-alone clinics or as additions or alterations to existing medical treatment facilities. The division also completed construction of two medical warehouses.

The total amount of completed medical facilities in FY 2001 exceeded \$91 million in new construction. Five other facilities, valued at \$21 million, were started. In addition to construction projects, the division completed the designs of ten medical treatment facilities, with another five designs under way, for a total value of more than \$132 million – all positioned for construction start in the next fiscal year. The MILCON Division medical program work spans across twenty-nine bases and seven major commands in the continental United States as well as Lajes Field, Azores, and Thule Air Base, Greenland.

Military Family Housing

The MILCON Division provides the services of design and/or construction agent for projects in the MFH program. In FY 2001, DCM completed design packages for seven MFH projects at six bases. These projects will either renovate or replace more than 300 family housing units for a total contract value of more than \$41 million. In addition, the division currently has another five MFH projects in design for 676 units with a value of about \$68 million. Furthermore, in FY 2001, DCM provided construction agent services for thirteen MFH projects. These projects either replaced or renovated 856 units, for a value of approximately \$159 million. The MILCON Division MFH program work spans across fifteen bases and seven major commands/direct reporting units in the continental United States as well as bases in Alaska, Hawaii, Japan, South Korea, and the Azores.

In FY 2001, DCM gained approval from Air Staff to acquire up to eight architect-engineer (A-E) indefinite delivery, indefinite quantity (IDIQ) contracts for a five-year contract period with a program ceiling of \$45 million. These IDIQ contracts will have a \$4 million delivery order limit and no annual threshold in order to accommodate the larger MFH projects and their follow-on option years approved by the Air Force Chief of Staff through the Air Force Family Housing Master Plan. These contracts will give AFCEE an added capacity to improve or replace an additional 18,400 housing units worldwide as needed.

Acquisition

DCM is one of several proponents of new and innovative facility acquisition methods. Through its active leadership in various forums in the Air Force and DOD medical facilities community, the division persuaded the customers, programmers, and agents involved in the Medical MILCON program to use the design-build contracting concept on medical treatment facility projects. As a result, 51 percent of the FY 2002 program is being accomplished by this method, where previously only warehouses were considered for design-build.

In addition, DCM is continuing the process of fielding its concept of Air Force design-build for the future, Design-Build Plus (DB+). The DB+ concept is a variation of construction delivery methods used by other government agencies and the private sector. DB+ was created to leverage the government's shrinking workforce and maintain the number of facilities that are built on time, and do so within established budgets while meeting customer requirements.

**Housing Privatization Division (DCP)
Privatization
(Tel: 210.536.3032/DSN 240.3032)**

The Housing Privatization Division is at the forefront in replacing and renovating Air Force military family housing through privatization. To facilitate this huge undertaking, DCP awarded an umbrella IDIQ Privatization Support Contract (PSC) in FY 2001. This PSC contract has a \$39 million ceiling and acquired five consultants to provide support in the execu-

tion of installation real estate projects from concept development to lease signing. By the end of FY 2001, DCP was involved in the privatization of more than 23,000 housing units at twenty-five installations throughout the United States.



The interior of a house in a privatized project at Lackland AFB, Texas.



The DCP staff.

In order to facilitate the many reviews in the housing privatization process, as well as to ensure all legal clauses and lessons learned from previous projects had been incorporated, DCP published a generic request for proposal (RFP) to be used on all future projects. In addition, DCP published a *Housing Privatization Execution Guide* to assist the bases and major commands in understanding the housing privatization process and its associated roles and responsibilities.

Currently under development for the coming fiscal year is the anticipated award of privatization projects totaling 6,509 units at six installations. In addition, DCP is developing a comprehensive training program targeting base and major command personnel. The training will provide a very detailed understanding of the process, role, and responsibilities of the players and the documents involved. As this program has evolved, it became

evident that the financial analysis computer model developed a few years ago has quickly become outdated. DCP has contracted for an update of this financial modeling software, which should be available next fiscal year.

Portfolio Management

The division has expanded its staff to establish a portfolio management cell comprised of a real estate lawyer and financial and contracting experts. During FY 2001, this cell began its portfolio management duties with data collection from the four pilot project installations that have already completed the housing privatization execution process. In addition, because the expected workload of privatizing military family housing at approximately thirty bases over the next fifty years is a huge undertaking, the portfolio management cell acquired consultant support to provide assistance in collecting, managing, and analyzing the vast amount of data collected from each installation.



DC's FY 2001 Program

Program total for FY 2001 was \$69,312,000

The following figures include the value of projects obligated in FY 2001 and all ongoing work carried over from previous years.

Organization

Air Combat Command	\$940,600,000
Air Education and Training Command	355,200,000
AF Materiel Command	522,300,000
AF Space Command	231,300,000
AF Special Operations Command	39,100,000
Air Mobility Command	543,100,000
Bolling AFB, D.C.	64,000,000
Pacific Air Forces	250,500,000
U.S. Air Forces Europe	1,700,000

TOTAL	\$2,947,800,000
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Regional Environmental Offices (REOs)

AFCEE has Regional Environmental Offices (REOs) in Atlanta (Eastern Region), Dallas (Central Region), and San Francisco (Western Region). These three REOs advocate the Air Force before local, state, regional, and federal authorities. Their duties include assisting major commands and bases with environmental issues; providing Air Force environmental leaders with updates and forecasts on environmental compliance status, trends, and problem areas; and managing all Air Force third party sites (TPS).

In addition, the REOs serve as the Department of Defense Regional Environmental Coordinator in Standard Federal Regions 12, 6 and 10, and as Air Force Regional Environmental Coordinator in all ten regions.

Eastern Region (CCR-A) (Tel: 404.562.4205/Tollfree 888.610.7419)

Environmental Management Review (EMR)

The Eastern Region REO developed the concept of the Environmental Management Review, which is a free expert examination of the Environmental Management System at Air Force installations by the Environmental Protection Agency and an independent contractor. The EMR is an important step toward improving base environmental management and developing a qualified EMS.



The Atlanta REO staff.

The Eastern Region REO began working with EPA Region 4, Air Education and Training Command Headquarters, and environmental managers at Columbus AFB, Mississippi, to conduct a review at that base – the first EMR at a major DOD installation in the region. The review included a series of interviews with base personnel, from the wing commander down to the individual shop managers.

The EMR team focused on the actual base environmental management, making its evaluation using EPA-recognized EMS guidelines. This innovative approach provided the installation with key information in building an EMS that meets the requirement of Executive Order 13148, which states that all federal facilities must have an EMS by 2005.

The Eastern Region REO plans to offer this EMR service to as many installations in its region as EPA can support. With these detailed reviews, Air Force bases will have an opportunity to build a strong environmental management system that will support future missions.

Central Region (CCR-D) (Tel: 214.767.4650/Tollfree 888.610.7418)

Accelerated Cleanup Program

The Central Region REO successfully developed an Accelerated Cleanup Program (ACP) for Randolph AFB, Texas. The program teamed EPA Region VI, the Texas National Resource Conservation Commission, Air Education and Training command and Randolph AFB restoration program managers in a cooperative effort to develop and implement successful strategies for property cleanup and revitalization. This coordinated effort ensured that wasteful duplication of effort was eliminated, resulting in a more streamline approach to cleanup procedures.



The Dallas REO staff.



As a result of improvements made in processing No Further Action (NFA) documentation for site closure, the cleanup of 23 Installation Restoration Program (IRP) sites at Randolph AFB was significantly accelerated. Also, up-front planning and direct involvement by the Restoration Advisory Board in cleanup decisions avoided unexpected regulatory and community concerns that could cause delays in cleanup activity and increase costs.

Overall, the pilot program is proving to be a significant improvement over normal restoration approaches, which often experience delays because of confusion associated with regulatory comment or resource constraints. Currently on schedule, the pilot program should result in the closure of at least 75 percent of the IRP sites. Plans are to export this concept nationwide, with cost avoidance estimated in the millions of dollars because of compressed and accelerated site closeouts.

Watershed data

The Central Region REO collected extensive watershed information over the last year for about 300 Air Force facilities in an effort to determine which bases are vulnerable to federal and state Total Maximum Daily Load (TMDL) regulations. These data were entered into an Access database and are available on line to any af.mil by going to www.afcee.brooks.af.mil/da/dahome/, clicking on the Military Links button and then on the USAF TMDL Program. The Web page also contains summaries of TMDL regulations, references, FAQs, and findings of the vulnerability analysis. Maps on the Web page show which Air Force bases discharge into water bodies that are “impaired” with various pollutants, such as sediments or pathogens.

Prior to this project, very little watershed information was available for Air Force facilities. The project was undertaken to address the need for adequate and accurate watershed information so that vulnerability to TMDL regulations could be assessed. Section 303(d) of the Clean Water Act (CWA) requires states and territories to identify “impaired waters” – those that don’t meet water quality standards – within their boundaries. States then prioritize the impaired waters based on the severity of the pollution and the water body’s use. Total Maximum Daily Loads must then be developed for all pollutants that cause the impairment.

**Western Region (CCR-S)
(Tel: 415.977.8881/Toll free 888.324.9254)**

Support during energy crisis

The Western REO in San Francisco assisted Air Force installations in California during last summer’s energy crunch. With the state experiencing rolling black-outs and facing the possibility of more extensive energy shortages, the Air Force moved some electrical generating equipment from other bases in the country to Travis AFB. The San Francisco office provided extensive support to this effort by trying to get the equipment registered



The San Francisco REO staff.

with the state and obtaining permits for the units from the local air district. However, because of the age of the units and their lack of pollution controls, the idea of relocating them to Travis was abandoned. The equipment would have provided enough energy to power about 5,000 homes in the event of a blackout.

Onizuka Air Force Station in Sunnyvale, California, is required to maintain 99.999 percent reliability of its power supply, which is normally provided by a commercial firm. Emergency power is produced by systems that run on either JP-8 jet fuel or natural gas. The installation's air permit, however, allows it to use only 10,000 gallons of JP-8 annually, with a maximum emission of 95 tons of primary pollutants, mainly nitrogen oxide (NOx). But this amount of JP-8 would have provided only 14 hours of power for the station in the event of a blackout. So the Western Region REO and its legal support staff assisted Onizuka in obtaining a variance to the permit, allowing the installation to increase its use of JP-8 to 235,000 gallons a year, while still maintaining the same level of NOx emission. The increased allowable fuel usage would enable the base to continue to meet mission requirements for five to six weeks in the event of an interruption in power supply.

Partnering

The San Francisco office continued to provide environmental program assistance and support to western region bases through its partnering efforts. For example, in August 2001 the REO worked with environmental coordinators from the other services to organize the Washington State Environmental Forum that brought together federal and state executive leaders of environmental agencies and military installation officers and commanders. At the meeting, participants shared mission information and success stories and discussed the barriers that kept them from better understanding and appreciating each other's roles. The forum also allowed the services to discuss with federal and state regulators such common issues as implementation of the Clean Water Act's Total Maximum Daily Load program and the impact of the Endangered Species Act on military missions.

Another example of the partnering effort was the Western REO's attendance at the Arizona Commander's Summit, which brings together the senior military leadership from all the military organizations in the state. Conference emphasis is on identifying and improving service to the Air Force customer, and on the DOD regional environmental coordinator team's support to the ACS. Two summits were held in FY 2001. They focused on air and ground encroachment, environmental concerns, utilization of special-use airspace, range enhancement programs, community relations, and other issues.

The Arizona governor participated in the September 2001 summit and addressed the state's perspective on three key issues: the Barry M. Goldwater Range, encroachment, and the potential for the joint strike fighter bed-down in Arizona. At the next semi-annual summit, the federal, state, and military pollution prevention partners that have been working together for over a year will sign a charter to formalize their partnership.

The Regional Environmental Offices have been working with state regulators to help formulate state adoption and implementation of the EPA promulgated regulation that deals with military munitions as waste under the Resource Conservation and Recovery Act (RCRA). Most states have adopted the federal rule, with only a few adding provisions contrary to the rules established by the EPA. In the Western Region, the San Francisco office is assisting California and the Territory of Guam in developing draft regulations and adoption language.



Regulatory relief

In FY 2001, the Western Regional Office participated in several initiatives to obtain environmental regulatory relief. One example was the office's support of the Navy's successful effort to obtain an exemption from the states of Arizona and Nevada to exclude aerospace ground equipment from Clean Air Act permit requirements. Instead, the equipment will be included in a registration program similar to one in California.

In California, the Western Regional Office supported a successful drive by the Air Force and the Navy to keep the EPA from reclassifying a part of the state from "serious" to "severe non-attainment for ozone." The area is home to Edwards AFB and the Navy's China Lakes Weapons Station. The bump up in status would have placed significant restrictions on military operations as well as future mission capabilities. The services argued their case at the EPA's Office of Air Quality and Standards, presenting scientific evidence and asking that eastern Kern County, where the two installations are located, should be considered separately from the rest of the affected area. Precedence for such a "carve-out" exists, and the services' argument was supported by two state environmental agencies.

The Western Regional Office and its legal support staff assisted Vandenberg AFB, California, and Air Force Space Command in preparing the Air Force's part of the DOD response to a marine life protection master plan being developed by the California Department of Fish and Game. The main concern for the Air Force was the possible impact that the plan would have on military and commercial operations at Vandenberg. The state agency, however, indicated that neither Air Force nor the other services would be affected by the master plan.



The daylong Statewide Restoration Advisory Board Rountable in Anchorage, organized in part by the San Francisco REO, brought together community representatives from throughout Alaska. Representatives expressed their views on Department of Defense environmental cleanup efforts in their state.

Financial Management and Mission Support (MS) **(Tel: 210.536.2319/DSN 240.2319)**

Mission Support's major role is to ensure that the AFCEE product directorates and regional environmental offices have the support necessary to accomplish their portions of the Center's mission. MS provides assistance in such areas as financial management, computer and



The MS staff.

communications, public affairs, multimedia, and human resources.

Computer Systems Division (MSC) **(Tel: 210.2569/DSN240.2569)**

MXT

During FY2001, MSC implemented two of the three modules planned for the Management, eXecution, and Tracking (MXT) System. This system is designed to support AFCEE project management, providing a single database for project execution across the organization. As AFCEE grew, many organizations, even down to the division level, developed some automated tools to support their work. As a result, AFCEE had more than a dozen different databases and applications housing mission related data.

The natural consequence of this situation was duplication of data entry, differences in reported information, and costly maintenance. MXT virtually eliminates duplicate data entry, offers a single source for reporting, and will reduce the cost of maintenance by \$250,000 to \$300,000 per year when fully implemented. Standard reports containing contract actions, obligation amounts, project data, and other data are now available to customers via the AFCEE Web site.

Environmental Resources Program Information Management System (ERPIMS)

ERPIMS is the Air Force standard validation process and repository for data from environmental projects at Air Force installations. It includes analytical chemistry samples, tests, and results as well as hydro-geological information, site/location descriptions, and monitoring-well characteristics. With the provision of a new desktop tool to support contractor data loading, MSC has increased the acceptability of ERPIMS contract deliverables to a new high. This improvement in submitted data quality enables AFCEE to continue to validate, distribute, and query for users more than eight times the number of records handled just five years ago, and at a continually lower cost per record.

Air Force Environmental Geographical Information System (AEGIS)

The primary example of the Web-based ERPIMS viewing tools available through AFCEE is AEGIS. MSC continues to work in partnership with the Environmental Restoration Directorate to develop AEGIS, a Web-enabled application with GIS components that provides querying, reporting, and visualization of spatial data within a standard browser interface. With AEGIS, AFCEE provides a new level of GIS applications for its customers.



AFCEE Web site

The new home page for the AFCEE Web site (<http://www.afcee.brooks.af.mil>) was activated. This new site has been redesigned to keep it in line with changing standards and offers much more “up front” access, including the “What’s New?” and “Upcoming Events” sections, quick access to the most popular AFCEE sites, and randomly activated photographs dealing with various items of special interest. MSC took pro-active steps to ensure the Web site was in compliance with the Electronic and Information Technology Accessibility Standards document published in December 2000 as part of Section 508 of the Rehabilitation Act of 1973. This led to the selection of the AFCEE Web site as one of only 20 Air Force sites picked to participate in the Department of Justice focus survey for 2000.

Public Affairs and Multimedia (MSP)

Members of the Public Affairs and Multimedia Division provided support for the sixth annual joint services Pollution Prevention and Hazardous Waste Management Conference. Their work included photography and video taping and assisting with the development of the AFCEE display. MSP is responsible for such areas as graphics and design, media relations, internal information, audiovisual support, and security and policy review. The division also edits and publishes *CenterViews*, AFCEE’s official quarterly magazine, and serves as a consultant on AFCEE Web page issues, including keeping the biographies Web site updated.

In FY 2001, as in previous fiscal years, MSP provided environmental community involvement and stakeholder relations services for in-house and external customers to meet the requirements of the Resource Conservation and Recovery Act (RCRA), the Comprehensive Emergency Response, Compensation, and Liability Act (CERCLA), and the National Environmental Policy Act (NEPA).

Resource Management Division (MSR)

More than distributing dollars

MSR successfully programmed, obtained, managed, and provided oversight for AFCEE funding, including the funds provided by customers for the services they need from the Center. But MSR did more than just distribute dollars; it also programmed, prepared, and coordinated budgeted and unfunded requirements. Other division functions included managing internal controls, audits and inspections, and serving as trainer and systems administrator for the Automated Business Services System (ABSS) and the Obligation Adjustment Reporting System (OARS).

Automated systems

To carry out its functions, the organization used several different automated financial programs, including the General Accounting and Finance System, Command Budget Accounting System, and the Program Budget Accounting System (PBAS). ABSS provided an electronic document flow and approval system for eliminating unnecessary paper copies and reducing processing time. A variety of different financial documents are processed in this system. More than 2,000 temporary duty (TDY) orders with an estimated value of \$2 million and over 1,400 Form 36 purchase requests valued at more than \$371 million were processed in FY 2001.

Team work

The AFCEE financial management function is performed by the Customer Support and Integration, Operations, and Cost Schedule and Analysis Services teams.

The Customer Support and Integration Team processed Base Realignment and Closure (BRAC) project accounts totaling \$110.9 million in current-year authority and maintained oversight of \$846.7 million in cumulative BRAC project authority and \$61.3 million in PBAS project funds. In addition, this section prepared all command financial reports for Defense Finance and Accounting Service (DFAS) System accounting and financial reporting, performed financial reviews, and was responsible for researching financial errors and coordinating with the appropriate personnel to ensure timely resolution.

The Operations Team managed most of the appropriations used to support AFCEE overhead requirements: Operation and Maintenance (O&M), Base Realignment and Closure (BRAC) overhead account, the Environmental Restoration Account (ERA) program, Military Family Housing (MFH) program (including the privatization initiatives), reimbursable customers, and additional MMR budget execution and program support. This year the Operations Team experienced an extremely successful execution of these accounts, achieving a 100 percent obligation rate before the fiscal year-end closeout.

The Cost and Schedule Services Team is composed of a staff of highly professional cost analysts who managed the audit and inspection program, reviewed and funded all travel vouchers for the organization, and provided key cost and schedule support in the areas of: high quality cost and schedule analysis; evaluation of AFCEE contractors performance history; analysis of the financial status of AFCEE contractors; support of the AFCEE Award Fee program; advisement on the effects of cost overruns and schedule slippage; training in cost and schedule analysis issues; and invoice sampling for validation.

Human Resources (MSX) (Tel: 210.2023/DSN 240.2023)

During the past year, MSX processed 55 time-off awards, 27 Notable Achievement Awards, 125 training requests, and 235 personnel actions for AFCEE employees. The division also worked to improve the quality of life and office environment for the people assigned to Center headquarters in building 532. MSX managed such improvements as the replacing of carpeting and installing of tile in various parts of the facility, and the troubleshooting and adjusting of the building's heating, ventilating, and air-conditioning system. Additionally, as a security enhancement, the division oversaw the installation of an automatic gate in the loading dock area.





Human Systems Wing Environmental Contracting Division (PKV)

AFCEE receives contracting support from the Environmental Contracting Division (PKV) and the 311th Human Systems Wing Support



The PKV staff.

Contracting Branch (PKOA) of the Human Systems Center at Brooks AFB. PKV provides contracting assistance for environmental studies, assessment, and remediation at Air Force installations worldwide. The division is made up of the Program Support, Base Restoration, and Base Closure branches. PKOA, on the other hand, supports AFCEE's Design and Construction Directorate in the areas of design, construction, and privatization contracting.

New business line Web page

The Environmental Minor Construction and Operations and Services (EMCOS) program, AFCEE's newest business line, now has its own Web page. This innovative resource contains both general and specific information, including government and contractor points of contact, a list of the five prime contractors and their teaming partners, the basic contract with all its attachments, helpful links, and a "tool" kit. The site is located at <http://www.afcee.brooks.af.mil/pkv/EMCOS/emcos.asp>. The Web page was created with four users in mind: internal AFCEE personnel, service center customers, all other government customers, and contractors.

The tools contained in the kit are tailored to the user. Some tools are beneficial for all users, such as the points of contact directory, the list of EMCOS type work efforts, and EMCOS acronyms. The proposal preparation guide, on the other hand, is intended for contractor use and the document on writing effective statements of work is designed for AFCEE personnel. A decentralized ordering guide is also available for other government customers who wish to utilize AFCEE contracts through a memorandum of agreement (MOA) that allows them to do their own contracting, administration, and close-out.

The EMCOS business line was developed to address small, non-complex, base-level projects in support of environmental conservation, compliance and pollution prevention activities, and hazardous waste management. The contracts can be used for worldwide support; however, the primary place of performance for work placed against the EMCOS program will be within the continental United States.

For more information on the Web page or other matters dealing with EMCOS, contact the contracting officer, Mr. Gerardo Villarreal at (210)

536-6382, or program manager, Mr. Roger Wilkson, at (210) 536-4667.

Environmental Remediation and Construction (ENRAC) Program

The ENRAC acquisition was one of the largest source selections ever completed at Brooks AFB. The joint AFCEE, Human System Wing Contracting Directorate team finished the source selection in record time and debriefed 23 offerors. The debriefs were so thorough that no protests were filed. The resulting contracts will provide full-service technology capabilities to clean up contaminants in environmental media (air, water, and soil), repair, maintain, construct, and operate environmental sites and facilities, and perform other related activities worldwide. Fourteen contracts – eight full-and-open competition awards, five small business set-aside awards, and one 8(a) set-aside award – were awarded with a program ceiling of \$750 million. The contracts include a five-year ordering period.

The ENRAC contract awards brought 140 contractor representatives to the AFCEE “Contractor School,” which the Center holds in lieu of a traditional post-award conference. The full day of intense training covers AFCEE contract procedures, invoicing, close-out, and government property procedures; Defense Contract Management Agency (DCMA) and small business overviews; and cost and schedule reporting. In one-on-one sessions after the training, contractors discussed specific issues about their companies with AFCEE program managers and contracting officers. Additionally, a marketing session was held to acquaint AFCEE contracting officers and program managers with each contractor’s capabilities.

The school, one-on-one sessions, and marketing sessions were a huge success and received exceptional reviews from the attendees. The Contractor School concept conserves AFCEE’s resources by allowing the contractors to come to the agency rather than a contracting team traveling to each contractor location for individual post-award conferences. Most importantly, it sets the stage for a successful ENRAC program in support of AFCEE customers.

PKV & PKOA contract actions by unit in FY 2001

Branch	Number of Actions	Obligations (\$M)
Program Support Branch (PKVA)	1031	\$67.8
Base Restoration Branch (PKVB)	1017	\$266.6
Base Closure Branch (PKVC)	769	\$103.9
Design and Construction Support Branch (PKOA)	233	\$38.0
Totals	3050	\$476.3

Appendix

AFCEE Contracts

Worldwide Planning, Program and Design (3P-AE) Contracts

Contract Type: Indefinite Delivery/Indefinite Quantity (ID/IQ); Time and Material; and Firm Fixed Price; Five-year ordering period; Program Ceiling \$480 million. No individual contract may exceed \$200 million.

The Worldwide Planning, Program and Design contracts have three environmental pillars: restoration, pollution prevention and compliance, and conservation planning. In addition, 3P-AE offers architectural and engineering services. These contracts provide environmental investigations, studies, assessments, and design services to its customers. As part of their services, the 3P-AE contracts offer preliminary assessment and site investigations, remedial investigations and feasibility studies, and pilot tests. There are 12 3P-AE contracts, 11 full and open and one small business.

Prime Contractors: Montgomery Watson; Parsons Engineering Science, Inc.; Foster Wheeler Environmental Corp.; IT Corporation; Tetra Tech, Inc.; Jacobs Engineering Group, Inc.; CH2M Hill, Inc.; Black and Veatch Special Projects Corp.; Earth Tech, Inc.; URS Group, Inc.; Science Applications International Corp.; and Ellis Environmental Group, LC, an 8(a) contractor.

Technical Point of Contact (POC): Mr. Cesar Silva, HQ AFCEE/ERB, DSN 240-5255, Comm (210) 536-5255, Cesar.Silva@brooks.af.mil. Contracting officer: Keith Matowitz, 311 HSW/PKVCA, DSN 240-4517, Comm (210) 536-5255, Keith.Matowitz@brooks.af.mil.

Worldwide Full Service Remediation Contracts

Contract type: ID/IQ; Program Ceiling \$475 million, Firm Fixed Price; Cost Plus Award Fee; and Cost Plus Fixed Fee; Five-year ordering period.

Remediation of any type, including containment, free product removal, low level radioactive waste removal, landfill capping, ground water remediation and control excavation, ordnance removal, and many other types of environmental cleanup work. Contact POCs for more information on specific projects.

Prime contractors: International Technology Corporation; Montgomery Watson; Groundwater Technology, Inc; Roy F. Weston, Inc.; Environmental Chemical Corporation; Cape Environmental Management, Inc.; and Versar, Inc. The ordering period ends August 2002.

POC: Mr. Gerald Saulnier, HQ AFCEE/ERD, DSN 240-5201, Comm 210-536-5201, FAX DSN 240-9026; Gerald.Saulnier@hqafcee.brooks.af.mil

Environmental Remediation and Construction (ENRAC) Contracts

Contract Type: ID/IQ; Time and Material and Firm Fixed Price; Five-year ordering period; Program Ceiling \$750 million.

The ENRAC contracts provide full-service technology capabilities to clean up various contaminants in environmental media (air, water, or soil); repair, maintain, construct, and operate environmental sites and facilities; and related activities. ENRAC is the follow-on to the worldwide full service remediation contracts. There are 14 ENRAC contracts, eight full and open, five small business, and one 8(a).

Prime Contractors: Jacobs Engineering Group, Inc.; Roy F. Weston; Foster Wheeler Environmental Corp.; Earth Tech, Inc; Environmental Chem Corp.; IT Corporation, Inc.; Parson I & T Group, Inc.; CH2M Hill Constructors; Geo-Marine, Inc. (SB); Toltest, Inc. (SB); Environmental Quality Mgt. (SB); BEM Systems, Inc. (SB); Versar, Inc. (SB); and Innovative Tech Solutions (8a).

POC: Mr. Gerald Saulnier, HQ AFCEE/ERD, DSN 240-5201, Comm (210) 536-5201, Gerald.Saulnier@brooks.af.mil. Contracting officer: Mr. Cliff Trimble, 311 HSW/PKVBC, DSN 240-6575, Comm (210) 536-6575, Cliff.Trimble@brooks.af.mil.

Systems Engineering and Technical Assistance (SETA) Contract

AFCEE's SETA is a full-time resource that leverages the Center's workforce and supports virtually all of its programs. These include the programs noted in the SETA plus military family housing.

Contract type: ID/IQ; Five-year ordering period; Time and Material and Firm Fixed Price; Program Ceiling of \$46 million.

Special studies and analysis, cost, risk and feasibility analysis, technology demonstrations and workshops, acquisition support (includes statements of work, cost estimates, and proposal evaluation recommendations); document preparation and review; contractor monitoring and quality assurance oversight; and contractor deliverables review. Also, contaminant fate and transport and ground water flow modeling; site visits and staff assistance; and partnering and peer review support.

Prime Contractors: Universe Technologies, Inc. (UNITEC) and Informatics Corporation.

POC: Ms. Carol McCollum, HQ AFCEE/ERC, DSN 240-5234, Comm 210-536-5234 FAX DSN 240-3609, Carol.Mccollum@hqafcee.brooks.af.mil.

Global Engineering, Integration & Technical Assistance (GEITA) Contract

Contract Specifics: Five-year multiple ID/IQ awards; Cost Plus Fixed Fee and Firm Fixed Price; \$150 million program ceiling.

This contract offers a full range of Advisory & Assistance Services (A&AS) in support of AFCEE's worldwide mission for execution of environmental restoration, quality, pollution prevention, compliance, conservation, and design and construction programs. A&AS projects support or improve: management and administration practices/procedures, organizational policy development, decision making, and program/project management.

Prime Contractors: Booz, Allen & Hamilton, Inc., DynCorp I & ET, Inc., Portage Environmental, Inc., and Team, LLC.

POC: Mr. Stephen A. Gagliano, AFCEE/ERC, DSN 240-5263, Comm (210) 536-5263, Stephen.Gagliano@brooks.af.mil. Contracting Officer: Mr. Dennis Spradling, 311 HSW/PKVAA, DSN 240-5383, Comm (210) 536-5383, Dennis.Spradling@brooks.af.mil

Environmental Minor Construction & Operations and Services (EMCOS) Contracts

Contract Type: ID/IQ, Three-year ordering period, Firm Fixed Price, Time and Materials, and R.S. Means/Pulsar Estimating System, Program Ceiling \$45 million.

EMCOS supports the government in achieving environmental objectives in the areas of environmental compliance, pollution prevention, environmental and land use planning, environmental restoration, environmental conservation, and other environmental services. EMCOS provides AFCEE customers with contractor capability to address emerging needs to support execution of environmental minor construction (to include repair, remediation, and demolition) and operation and services (O&S) requirements and act as a force multiplying augmentation to in-house workforces.

The EMCOS contract is envisioned to primarily support CONUS, small dollar-non-complex base level projects; however, larger projects can also be accomplished. This contract is not expected to duplicate the large Environmental Remedial Actions Contract (ENRAC). Orders will usually be issued by the 311 HSW/PKV; however, the basic contracts can also support other government customers through Decentralized Ordering with the agreement that other government customers shall negotiate, administer, and close out their own task orders. Through EMCOS, the government wishes to obtain customer satisfaction for products and services delivered while reducing cost, administrative requirements, and project timetables.

Prime Contractors: Laguna Construction Company, Inc. (SB); Geo-Marine, Inc. (SB); Environmental Quality Mgt., Inc. (SB); BEM Systems, Inc. (SB); Cape Environmental Mgt., Inc. (SB)



POC: Mr. Roger Wilkson, HQ AFCEE/EQT, DSN 240-4667, Comm (210) 536-4667, Roger.Wilkson@brooks.af.mil. Contracting officer: Mr. Gerardo Villarreal, 311 HSW/PKVAB, DSN 240-6382, Comm (210) 536-6382, Gerardo.Villarreal@brooks.af.mil. Additional information on the EMCOS program can be found at: <http://www.afcee.brooks.af.mil/pkv/EMCOS/emcos.asp>.

PRO-ACT Contract

Contract Type: Five-year ID/IQ, Cost Plus Fixed Fee, \$5.7 million Program Ceiling.

Environmental compliance and requirements are numerous and complex, straining Air Force environmental support resources. The PRO-ACT program is an Air Force environmental research service and information exchange clearinghouse. PRO-ACT is sponsored by AFCEE to provide environmental research services free-of-charge to the Air Force, including Air National Guard, Air Force Reserve, Air Force civilian employees, and contractors who hold active environmental contracts with the Air Force.

PRO-ACT Technical Inquiries are questions received from Air Force personnel regarding specific environmental concerns or issues. Technical Inquiries are submitted from all levels within the Air Force, and each customer receives the same high-quality, individual technical support from PRO-ACT's environmental researchers. Although individual research efforts are the foundation of PRO-ACT, the project also monitors environmental resources being developed throughout the Air Force and Department of Defense.

Prime Contractors: Bering Straits Environmental and Kevric, Inc., in a joint venture.

Technical POC: Capt Ashley Echevarria, HQ AFCEE/EQP, DSN 94-3340, Comm (210) 536-3340, Ashley.Echevarria@brooks.af.mil. Contracting officer: Ms. Brenda Dillard, 311 HSW/PKVAB, DSN 240-6381, Comm (210) 536-6381, Brenda.Dillard@brooks.af.mil.

Environmental Minor Construction & Repair (EMCR) Contract

Contract Type: Three-year ID/IQ, Firm Fixed Price, \$3 million 8(a) set-aside contract to Cape Environmental.

This pilot-type program covers a number of small environmental projects, such as storm water systems repair, pollution-prevention and waste-minimization equipment installation, asbestos removal, small spill cleanup, lead-based paint removal, and others. This construction and repair contract allows AFCEE to do compliance related construction projects that currently do not fit well under other contract vehicles.

Prime Contractor: Cape Environmental, Inc.

Technical POC: Mr Jonathan Haliscak, HQ AFCEE/EQT, DSN 94-5522, Comm (210)-536-5522, Jonathan.Haliscak@brooks.af.mil. Contracting officer: Ms. Brenda Dillard, 311 HSW/PKVAB, DSN 240-6381, Comm (210)-536-6381, Brenda.Dillard@brooks.af.mil.

Design and Construction Contracts

AFCEE contracts provide commands and installations with a variety of A-E services to advance installations excellence and Air Force quality of life through standards and criteria development, as well as execution of design and construction of a wide range of facility types, with emphasis on medical and military family housing.

Contract type: Mostly ID/IQs; mostly five-year ordering periods; firm fixed price; with contract ceiling and work type variations among the contracts as noted below.

Services provided: Vary among contractors and include design guides, handbooks/standards preparation; interior, facility, and landscape design documents; feasibility studies/project programming, 1391 development, and site surveys/reports; construction management services; planning studies, assistance teams, and cost

estimating services; design/construction documents; energy/sustainability studies; housing community profiles, housing market analyses, and annual family housing master plan; and other related services.

Contractors and contract descriptions:

- Baker and Associates (ordering period ends September 2003), Hellmuth Obata Kassabaum Inc. (ordering period ends August 2002) – five-year, regional ID/IQs for continental U.S. family housing projects; each with annual ceiling of \$1.5 million and \$500,000 delivery order limit;
- Baker and Associates)/Group 70 (ordering period ends July 2002), Koonce Pfeffer Bettis (ordering period ends December 2003) – five-year ID/IQs, for Pacific and Alaska family housing contracts, respectively, each with \$1.5 million annual ceiling and \$500,000 delivery order limit;
- URS, Corp. (ordering period ends December 2004) – five-year worldwide construction management services ID/IQ (not limited to housing) with \$3 million annual ceiling and \$1 million delivery order limit;
- The Atkins Benham Group (ordering period ends June 2005), 3D/International (ordering period ends September 2005), Hellmuth Obata Kassabaum Inc. (ordering period ends September 2005) – five year worldwide ID/IQs, each with a \$10 million ceiling or five year performance period, a \$5 million annual ceiling, and a \$1 million delivery order limit;
- Parsons Infrastructure and Technology Group (ordering period ends May 2004) – four-year worldwide housing ID/IQ for development of the annual Air Force Family Housing Master Plan with \$12 million annual ceiling with no limit on individual delivery orders;
- Avila Government Services (ordering period ends July 2003) – worldwide advisory and assistance privatization contract with a \$2.99 million program ceiling or three-year performance limit with no limit on individual delivery orders;
- Jones Lang LaSalle, Ernst & Young, Basille Baumann Prost & Associates, PSC Military Housing Company, & Kormendi/Gardner Partners (ordering period ends September 2005) – five-year ID/IQs, all Privatization Support Contracts developed by the Air Force Center for Housing Privatization to provide start to finish full capability support for the life of military family housing privatization projects. These five contracts, including a small business set a-side will share a program ceiling of \$39 million with capacity to support 26 candidate installations.

POCs: For military family housing privatization, Mr. Perry Potter (primary), HQ AFCEE/DCP, DSN 240.3032, Comm 210. 536.3032, FAX DSN 240.3498, Perry.Potter@hqafcee.brooks.af.mil. Lt. Col. Dennis Jasinski (alternate), HQ AFCEE/DCP, DSN 240.5506, Comm 210.536.5506, FAX DSN: 240.9004, Dennis.Jasinski@hqafcee.brooks.af.mil.

POCs: For standards/criteria development, and design/construction of facilities other than military family housing, Mr. Boyce Bourland (primary), HQ AFCEE/DCD, DSN 240.5483, Comm 210.536.5483, FAX DSN 240.9004, Boyce.Bourland@hqafcee.brooks.af.mil. Mr. Mikeual Perritt (alternate), HQ AFCEE/DCD, DSN 240.3547, Comm 210.536.3547, FAX DSN 240.9004, Mikeual.Perritt@hqafcee.brooks.af.mil.

POCs: For non-privatized military family housing and medical, Ms. Linda Hansen, (primary), HQ AFCEE/DCM, DSN 240.3382, Comm 210.536.3582, FAX DSN 240.9004, Linda.Hansen@hqafcee.brooks.af.mil. Mr. Eugene DeRamus (alternate), HQ AFCEE/DCM, DSN 240-3553, Comm 210.536.3553, FAX DSN 240.9004, Eugene.Deramus@hqafcee.brooks.af.mil.

Contract type and services provided: Five-year ID/IQ design-build Plus (DB+) with a \$450 million contract ceiling over five years. Focuses on military family housing, but also includes dormitories and transient lodging and administration facilities. Contractors: Hunt Construction; Parsons Infrastructure and Technology, Inc.; and Sundt Construction. POC: Mr. DeRamus.

Contract type and services provided: Five-year, \$45 million architectural-engineering ID/IQ. Focuses on military family housing projects, but is full-service AE contract to include family housing master plans and housing market analyses. Contract established a cadre of seven contractors: Parsons Infrastructure; Atkins Benham, Inc.; Jacobs Facilities, Inc.; RIM Architects; Helmuth, Obata & Kassabaum, L.P; URS Group Inc.; and Baker and Associates. POC is Mr. Thomas Rech, HQ AFCEE/DCM, DSN 240-3067, Comm 210.536.3067, FAX DSN 240.9004, Thomas.Rech@hqafcee.brooks.af.mil.

