



**U.S. Army Corps
of Engineers**
Far East District

FY03 Year in Review



From the Far East District Commander

TO OUR VALUED PARTNERS AND STAKEHOLDERS:

FY03 was another challenging and exciting year for the Far East District and our partners in Korea. We completed and turned over major construction projects in all geographic areas, continued progress on over 120 projects, and awarded over \$260 Million on a CWE basis in construction contracts for 55 projects in the past year. All of these represent significant improvements in war fighting capability and quality of life for our soldiers, sailors, airmen, marines, as well as all other members of the U.S. Forces Korea (USFK) family.



This past year we completed many important projects such as the Humphreys Lodge, Youth Center, and Family Housing Phase 1, as well as the Yongsan Multi-purpose Training Facility, Casey Lodge Addition, Osan Visitors Quarters, and a Squadron operations Facility at Kunsan. For the future we broke ground on other vital projects such as the Yongsan Overpass, Casey Vehicle Maintenance Facility, and the Osan Dormitories.

Environmental support to USFK included the completion of complex ground contamination investigations and multiple delivery orders for fuel tank removals and asbestos abatement. District field teams continued to provide valued water well maintenance services to US military installations. Also, the District partnered with the Savannah District to develop an Army-wide Geographic Information System (GIS) for KORO-IMA, with facility management and master planning applications.

We continued to position ourselves to be ready to respond to emerging requirements such as the US and ROK Future of the Alliance discussions by positioning master planning resources, developing new expedited contract vehicles, and exploring potentials for leasing facilities. In addition we supported the command in starting up the Korea Rental Housing Program that will enable the installations to quickly lease quality off-post housing for service members and families at a reasonable cost.

In the midst of all this activity the District received the official certificate from the International Standards Organization (ISO), which recognizes that FED's quality management system meets the ISO 9001:2000 standard. FED is the first district in the Corps of Engineers to have all of its business processes included in the ISO 9001 certification. This achievement represents FED's commitment to delivering quality products and services to our partners. In order to maintain this ISO certification we must continually improve since the external assessors will be conducting surveillance audits in April and October every year to verify that FED continues to meet the standard.

We continue to strive for excellence and delighted customers and remain committed to supporting the command through the exciting challenges and opportunities of the future. Essayons!

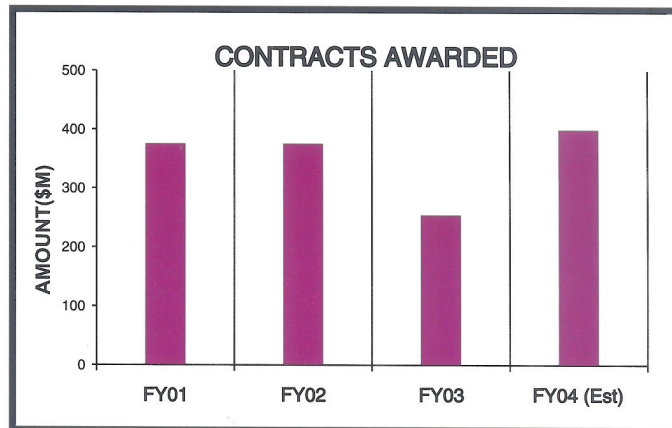
FRANCIS X. KOSICH

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Commanding

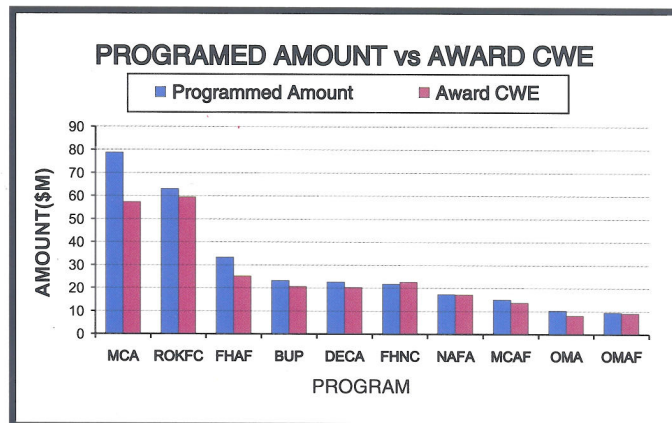
Contracts Awarded:

In FY 01/04 contract award amount for each fiscal year is an indication of workload during the following year.



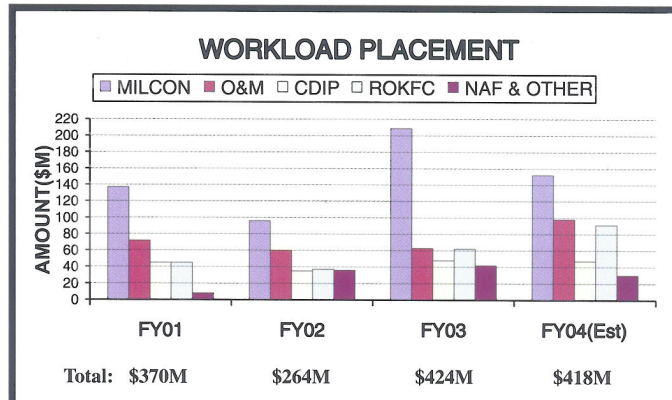
Contract Savings:

In FY 03 we awarded contracts for projects programmed at a total of \$302M. Our award CWE for these projects totaled \$260M representing a savings of \$42M for the command.



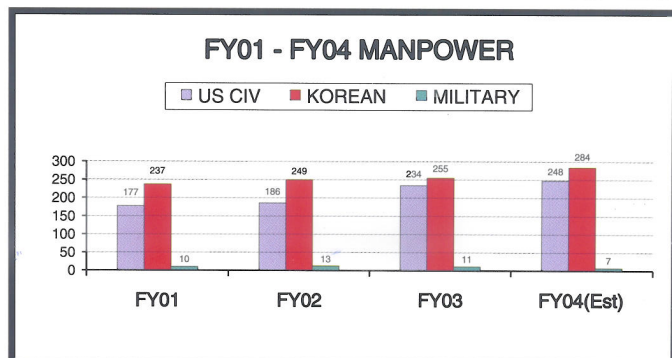
Workload Placement:

FY01/04 actual payment made for services provided during the fiscal year. This includes the amounts paid for progress in construction.



Manpower:

FY02/03 actual strength includes two reservists called to active duty. As a reimbursable organization, the manpower reflects the workload.



Area I Projects

Camp Hovey 232 PN Barracks and Battalion Headquarters



This project consists of two 232 space barracks and one battalion headquarters, all featuring the FY02 standard design, site-adapted. Two soldiers occupy each living area, which each having a bath and 2 closets. Barracks include TA 50 lockers and common facilities on each floor, mud room and laundry (1st), kitchen/dining area (2nd), lounge (3rd), and game room (4th). The battalion headquarters is modern and spacious, with room enough for the entire battalion staff. It has a multi-media conference room, 3 classrooms, a crypto vault, and an elevator.

The Casey Lodge Addition

This project consists of a 3-story, 40-room addition to the existing 26 room lodge. Each guest room is attractive and spacious. Each unit has a kitchenette and a full bath. Common guest facilities include a business center (internet access), laundry, and lobby. Two elevators were installed for guests and staff. This project significantly enhances Casey Lodge's capacity and dramatically improves MWR's ability to provide exceptional short-term housing for soldiers, DOD civilians, contractors, and their families and guests.



Barracks Upgrade Program (BUP)



The Barracks Upgrade Program (BUP) has been one of the most successful FED programs in the Casey Enclave in the past three years. When the BUP is finished, 18 aging barracks buildings will have been completely overhauled cost-effectively to give them new life as modern barracks fully in compliance with modern Army standards for troop housing. At the close of FY03 13 of the 18 buildings in the program were completed and occupied.

Yongsan Projects

121 Hospital renovation

The purpose for this construction program is to correct life safety deficiencies, comply with Joint Commission on Accreditation of Healthcare Organizations (JCAHO) standards, improve the functional layout, provide for AT/FP and provide a state of the art facility for beneficiary population throughout the peninsula. Phase I, awarded in June 2001, is a \$33 million dollar construction project. Estimated completion is Nov 2004.

The remainder of the facility will be renovated during the next two phases with estimated completion in 2008.



Multipurpose Training Facility



Construction was completed in August 2003 at a total cost of \$3.3 Million. It includes three auditoriums with state of the art video, sound, and acoustic systems capable of showing different movies simultaneously. The main auditorium seats 359 while the other two smaller auditoriums each have a seating capacity of 125. The facility includes a snack bar, office space, restrooms, central heating and cooling system, fire alarm and sprinkler system. The entrance to the facility features a promenade with high ceiling, granite stairs, and decorative granite flooring.

Vehicle Overpass, Yongsan

This highly visible project is to construct a two-lane vehicle overpass across Itaewon Road at the Yongsan Garrison to connect Main and South Post. The overpass is 40 meters in length and will have facilities for bicycle and pedestrian traffic. It will also be capable of carrying vehicles as large as commercial busses. Estimated construction cost is \$10 million and it is scheduled for completion in January 2004.



Multi-Story Family Housing (60 Units), Phase I, Yongsan



The first design-build contract for new construction in Korea is to construct 60 family housing dwelling units in two - five story apartment buildings for field grade, company grade, warrant and senior non-commission officers. This phase consists of 2 five-bedroom units, 18 four-bedroom units, and 40 three-bedroom units ranging from 1628 to 1995 net square feet per unit.

Each apartment unit will have it's own central hot water system, heating and air conditioning system (heat pumps), CATV and

telephone system in all rooms. Units will be fully furnished to include ranges, dishwashers, clothes washer/dryers and furniture. The individual buildings will be serviced by four elevators. 60 Primary parking spaces will be located below the two buildings for residence parking. In addition, 71 secondary underground parking will also be provided. Supporting facilities include a tot lot, playground, basketball and volleyball court, BBQ deck and landscaping with lighted walkways. Construction is expected to be completed in April 04. Total cost of this design-build contract is approximately \$24 Million.



Whole Barracks Renewal, Yongsan



This project consists of a five story 252 person (modified 2+2) unaccompanied enlisted personnel barracks. Each unit includes a living/ sleeping room with closets and a semi-private bath. Common area includes two elevators, kitchen, storage area, laundry room, lounge, mud room, weight and activity rooms. The building is equipped with fire protection, central heating and cooling system, CATV and telephone connections. Project commenced in October 2002 and estimated completion is July 2004. The construction cost is \$8.5 Million.

Camp Humphreys Projects

Army Family Housing Phase 1



Completed in September 2003, this 52 unit 5-story family housing building provides state of the art living for soldiers and their families. Supporting facilities include basketball court, tot lots, BBQ area and landscaping. Each unit comes with all appliances including a dishwasher, cable TV and internet service. The families will have the advantage of living on post within walking distance of child and youth services, new PX and commissary, and many other community facilities.

Army Family Housing and Underground Parking Structure (Phase 2)

With the completion of Phase 1 family housing, FED also awarded the construction contract of Phase 2 family housing and an underground parking structure in August 2003. Phase 2 family housing is a 6-story 48 units structure that includes 32 3-bedroom units and 16 4-bedroom units. The construction will be completed in October 2005. The 2-story underground parking structure, tucks in between the family housings structures, has 230 spaces for phases 1 and 2 as well as a phase 3 building in the future.



Army Lodging Facility



In September 2003, FED completed the construction of a 80 room 4-story lodging facility. This state of the art lodge has a mix of standard rooms and both small and large suites. The suites include a kitchenette. All rooms include a refrigerator, microwave, safe, TV, VCR, and telephone/internet connection. The facility will support all military and civilian individuals who are on TDY, PCS and leave.

Osan & Kunsan Projects

Osan Enlisted Dorms

Two adjoining 156 room, four-story dormitories were constructed for the single airman at Osan AFB. The living quarters modules consist of two individual living rooms, with shared kitchens and bathrooms. Also included in each building are three lounges, two study / meeting rooms and two laundry rooms. The buildings each have the latest in technology with Collective Protective Systems (CPS) for protecting the personnel in the event of chemical and biological attack. These two dorms were completed in September, 2003 at a cost of \$18.6 million.



Osan Runway Repair and Improvement



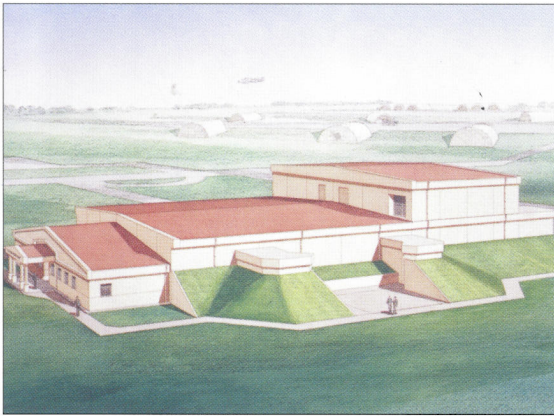
The Osan runway had a periodic maintenance repair along with an upgrade to the airfield's lighting system and widening of taxiways. The runway was closed for 54 days to allow unrestricted access to the runway. This \$6.3 million project was completed by two individual contractors. Working side-by-side, often times 24 hours per day, the project was completed without a time extension.

Osan Hardened Aircraft Shelters

Phase I and II of this CDIP project will provide four new hardened aircraft shelters at Osan Air Base. They will house a number of A-10 aircraft once completed. Phase I is scheduled for completion in June 2004 and phase II in September 2004. These third generation hardened aircraft shelters (HASS) will have 18" thick reinforced concrete walls and roof with steel lining plates. It has a reinforced concrete foundation and floor slab, fire suppression system (AFFF), and a standby electric generator. This project also includes the construction of a PCC apron/taxiway, road, concrete chamber revetment, site improvement and storm drainage system.



35th Squadron Operations Facility



This facility was completed in December 2003. The 1680 square meters CDIP funded facility started in September 2001 and was completed at a cost of \$6.2 Million. State of the art features include a chemical warfare mode ventilation system with positive pressurization, a force protection building system able to withstand bomb blasts, a briefing room for meetings and training and a contaminated control area that has a seven day self-sustained operation capability.

Patriot Vehicle Maintenance Facility

This project is to construct a vehicle maintenance facility for the Army Patriot batteries. The facility consists of pile foundation, a reinforced concrete floor, CMU walls, and sheet metal roofing, including HVAC system, fire detection and suppression system, and other supporting facilities. The project started in Sept 2001 and was completed in July 2003 at a cost of \$4.0 Million.



Kunsan Resident Office Renovation



Kunsan Resident Office was upgraded from a project office in 2003. As part of the upgrade, the office building was expanded from 2100 sf to 3100 sf, and interior renovations were completed. This will allow for an increase in occupancy as well as improved facilities. The expansion and renovations include a conference room, individual office space, file room, upgraded bathrooms, new composition tile floor, new ceiling and lights, and a fresh coat of paint. The resident office is looking forward to moving into the refurbished quarters at the beginning of 2004.

Area IV Projects

Child Development Center, Camp Carroll



This \$2.3 million project is a standard-design child development center for 60 children. The center includes media, music, and play areas as well as space for small and large group activities. It also includes a food service area, administrative space, pre-wired workstations, surveillance cameras, staff workrooms, storage, sheltered outdoor activity space and playground. The project was completed in February 2003.

Whole Barracks Renewal, Camp Carroll

This project consists of a four story 232 person (modified 2+2) unaccompanied enlisted personnel barracks. It includes living/sleeping rooms with closets and semi-private baths, storage, laundry, dayroom, and mud room. Supporting facilities include utilities, paving, sidewalks, curbs and gutters, parking, bike racks, dumpster pad and trash enclosure, storm drainage, fuel oil storage tank, information systems, and site improvements. This \$6.7 million project was completed in April 2003.



Renovation of Bldg S-315, Camp Walker



Completed in August 2003, this \$1.9 million Theater Network Operations and Security Center - Korea renovation project includes replacement of walls, floors, ceilings, doors, dilapidated HVAC system, and old electrical system, installation of new sprinkler system, and conversion of existing mechanical room to a working space with raised floor. Supporting facilities include provision of a 2,000-gallon aboveground tank, replacing main electrical transformers and upgrading the grounding plan.

Contingency Operations and Readiness

Throughout the year the Far East District, aptly dubbed the “Maneuver District”, continued to serve a purpose like no other USACE organization. As the DoD design and construction agent for USFK, our mission continued to be a three-fold operation. Execute the military and host nation construction programs, support installations through engineering, environmental, design and construction management services and provide professional engineering and construction services. North and South Korea maintain some of the most formidable forces in the world, separated only by a few miles. For this reason, the District continues to improve and prepare itself by adapting new contingency and mobilization program concepts.



FED took major steps toward improving its readiness posture and mission execution capability by tailoring the new USACE Field Force Engineering (FFE) doctrine and program to the District mission and by honing collective and individual contingency skills through a comprehensive training program. Under this program, the District provides responsive and tailored contingency technical engineering, real estate, and contract construction planning support to USFK and its major supported commands (MSCs). Division leaders and supervisors held a number of workshops hammering out a District structure and task organization to meet future challenges.

FED fielded a Forward Engineer Support Team -Main (FEST-M), while a smaller organization, was trained and equipped to leverage the full capabilities of USACE and CONUS-based technical engineering centers. It is designed to provide planning, coordination and execution throughout the year to our diverse customer base. As part of the FEST-M program, FED developed and deployed a number of new systems during RSO&I and UFL-03.

Other new contingency tools deployed in support of our contingency customers this year were the Automated Route Reconnaissance Kit, Tele-Engineering Tool Kit, Blast Effects Estimation Module, NEO Automated Accounting System and a Theater Construction Management System 2.0. The District Division Chiefs and leadership played a critical role in the development of the District FEST-M concept and are themselves vital players (Emergency Essential Civilians) in the District contingency organization.

To accomplish these improvements, our soldiers, leaders, and civilians had to be technically and tactically proficient and learn many new and diverse skills. Leaders (supervisors) had to use and manage all available tools and resources to ensure that we trained subordinates as we expect them to operate and survive in times of contingency. USACE funding primarily focused on assessing the District's collective and METL tasks during the two annual JSC FTX exercises, RSO&I and UFL. Individual common task survival skills and contingency operations awareness were funded via overhead. Only through leadership did the District have a successful training year in which both the soldiers and civilians could walk away with knowledge that they are prepared to operate in any contingency environment.

Geotechnical and Environmental Services

Geotechnical Services for project planning, design, and construction, with highlights shown below (top left to bottom right): (1) inspection of Seoul Subway Line #6 tunnel below Yongsan Bridge Overpass; (2) micropile installation for renovation of 8th Army G1 Building, Yongsan; (3) pile driving off barge for Kunsan AB approach lighting pier; (4) new facility and equipment for MCX-certified Materials Testing Lab; (5) geophysical investigation for Land Partnership Plan (LPP) land acquisition study; (6) expedited airfield runway repairs at Camps Page and Humphreys; and (7) Pile Driving Analyzer technology for monitoring driven pile performance at Kunsan AB commissary site.



Environmental Services in support of KORO, USFK, and District projects, with highlights shown below (top left to bottom right): (1) C-12 crash site investigation near Pyeongtaek, with Survey Unit GPS control; (2) fuel fluorescence detector used for UST leak study at Camp Humphreys; (3) fuel contaminated soil tested by staff chemists; (4) soil contamination analyses, K-16 AB Gas Station; (5) asbestos surveys by in-house staff; (6) biopile soil remediation, Camp Walker; (7) bioslurper system to recover gasoline product below Yongsan Gas Station; (8) meeting with Seoul City at FED on status of subway contamination investigation; and (9) investigation of hazardous waste disposal at Camp Carroll.



Water Well Services : During FY03, the Water Well Services Section completed preventive and emergency maintenance on 228 water wells on 49 different USFK installations. Those wells produced approximately 18.5 million gallons of water daily, providing a needed resource for basic installation operations and contingency requirements. Expedient water well support was provided to the Korea Training Center and Camp Mujuk during exercise build-ups at those facilities. In-house drilling assets were also applied to the construction of several monitoring wells for the Seoul Subway contamination study near Yongsan.



Geographic Information Systems (GIS) : The Far East District is partnering with the Savannah District in developing an Army-wide GIS for KORO-IMA, with the basic system to be in place by Jan 04. The KORO GIS will provide Web-based, controlled access to installation data for various facility management and master planning purposes. The Data Management Section leads the way in GIS technology implementations at the District and within USFK. In addition to the KORO GIS, the Section has completed a GIS-based database for underground fuel storage tanks, and staff have made presentations at GIS conferences in Korea and CONUS.



The Safety and Occupational Health Office (SOHO)

Serves the Far East District by providing SOH Program oversight and guidance to all Divisions, Sections and project contractors. SOHO conducts accident/incident investigations to ensure full understanding of the causes and provides recommendations for reduction of future such events.

- Sustained only 4 Recordable Accidents (Property or time lost greater then \$2,000.00)
- FED has had only one Workmen's Compensation (OWCP) claim since 1984.
- Taught six Contractor Safety Courses (4 Korean Language [172 students], 2 English Language [35 students])
- Conducted over 100 safety site visits
- Reviewed 75 Accident Prevention Plans
- Reviewed 500 Activity Hazard Analysis
- Provided technical guidance (Construction/OSH Issues)
- Provided safety training to PQ contractors, Ministry of National Defense (MND) and newcomers

The FY03 Safety Day was one of the most memorable in FED history. All FED personnel, to include Resident Offices and for the first time, Korean Military Contractor Association board members and Host Nation project contractors, participated.



MND Exchange Program

The Far East District and the Republic of Korea Ministry of National Defense - Defense Procurement Agency have been very good partners for many years and the relationship is valued by both sides. In order to maintain and improve the relationship, every year the Far East District sponsors an exchange training program with the Ministry of Defense. During the training program, the District introduces District personnel to Republic of Korea Ministry of Defense engineers (both military and civilian). This annual program is valuable training and competition for admittance is high. The selected ROK MND engineers go to each District division/branch, including construction offices, and receive training on how we do our business processes and to ensure high quality construction. The District believes this program is one of the reasons why the Combined Defense Improvement Projects (CDIP) construction quality continues to improve every year. The FY03 MND Exchange Training was held from 12 November - 20 December 2002 for nine ROK MND engineers and FY04 training was held from 03 November - 12 December 2003 for eleven ROK MND engineers.

In addition, Far East District worked with ROK Army Headquarters to institute a new Exchange Officer Training Program. In this program an Army Engineer Officer with a rank of Major or higher comes to the district and works for the district for a year. This program will provide more in-depth and hands-on training on how the district manages projects. The program kicked off 1 May 03 and the first Exchange Officer, LTC Shin, Hak-Su will be with the district until 31 Mar 04. He is working for the Area IV and Uijongbu Project Management Team as a Project Manager.

Build to Lease Program

Our support of the USFK commander's goal of increasing the command-sponsored rate continues under the Build to Lease (BTL) Family Housing Program. The Camp Humphreys project now consists of 1,756 family apartments in 12-15 story buildings, two elementary schools, and one high school. Other necessary community facilities will be determined based on the location of the site designated for BTL. We will be prepared to solicit for developers in early 2004 in a two-stage procurement with developer selection completed by the end of the year. We also recently started feasibility analysis for a 360-unit project in the Daegu area. We completed the analysis in November 2003 and will be ready to solicit for developers in mid-2004.

Korea Rental Housing Program: In addition to the BTL program, the KORO Public Works Division engaged FED to lease apartments off-post for military families. We enlisted the aid of a real estate specialist from Sacramento District who visited Korea to develop a standard Government lease for KORO, negotiate the terms with the owners, and conclude the leases. We concluded leases on 11 apartments and stand ready to conclude more as suitable properties become available.

QAB/CD

FED is using the USACE Center of Expertise (CX) and other expertise within the Corps when subject matter expertise is more efficiently and effectively imported to assist us. For example, during FY03, we brought engineers in from CX to assist us with hardening, blast protection and paving projects. We also brought in an elevator consultant through our A-E's Construction Management Service contract to help us provide quality assurance service at several project sites where elevator quality assurance and inspection services were required.

Underground Storage Tank Removal and Aboveground Storage Tank

This project addresses one of the most pressing environmental issues for USFK. During FY 03, the Underground Storage Tank Removal and Aboveground Storage Tank (UST/AST) contractors in the Casey Enclave removed 74 USTs, many of which had been in the ground for several decades. 106 new double-wall ASTs on curbed concrete foundations (for spill protection) were installed. Each with double-wall secondary containment piping from the tanks to the boiler rooms. The UST/AST program in the Casey Enclave during FY03 was a successful collaborative effort between the Far East District environmental staff, Camp Casey Director of Public Works and the Tongduchon Resident Office. It served as a model for the peninsula-wide program now in place in Korea.

