



CCAD
 CORPUS CHRISTI ARMY DEPOT



BETTER • FASTER • COST EFFECTIVE

Annual Report 2012



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BUILDING 8



A TEAM ASSEMBLES THE TAIL SECTION OF
CCAD'S FIRST UH-60 BLACK HAWK L-L RECAP

Letter from the Commander



On behalf of the Corpus Christi Army Depot (CCAD), I would like to present our Annual Report for Fiscal Year 2012. This report will illustrate our accomplishments, capabilities and mission strategy to leverage our position as the Department of Defense's premier Organic Industrial Base for helicopters and Unmanned Aerial Systems.

In the information provided, we highlight the exceptional work we are doing as the largest helicopter, engine and component maintenance facility in DoD. Though CCAD has a number of capabilities found nowhere else, the depot continues to evolve by adding capabilities that will be needed for the future of defense and the Joint Warfighter.

To do that, we are reducing our consumption of government funds and material resources by finding smarter and more efficient ways to provide the best support to the Joint Warfighter. When it comes down to it, the U.S. government can't afford to purchase new aircraft each time one is damaged. They rely on us to take those damaged aircraft and components and get them flying again.

The historic drawdown from Iraq and Afghanistan, coupled with a reduced DoD budget, signals a number of challenges for the Army and for CCAD but, as the Annual Report will show, the depot is ready for those challenges.

We have achieved unprecedented cost avoidance by operating as a business, while investing in technology and our workforce. Every American can be proud of the service we provide to our Joint Warfighters as we show how efficient the federal government can be.

In short, CCAD is better, faster and more cost effective; this is reflected in everything we do.

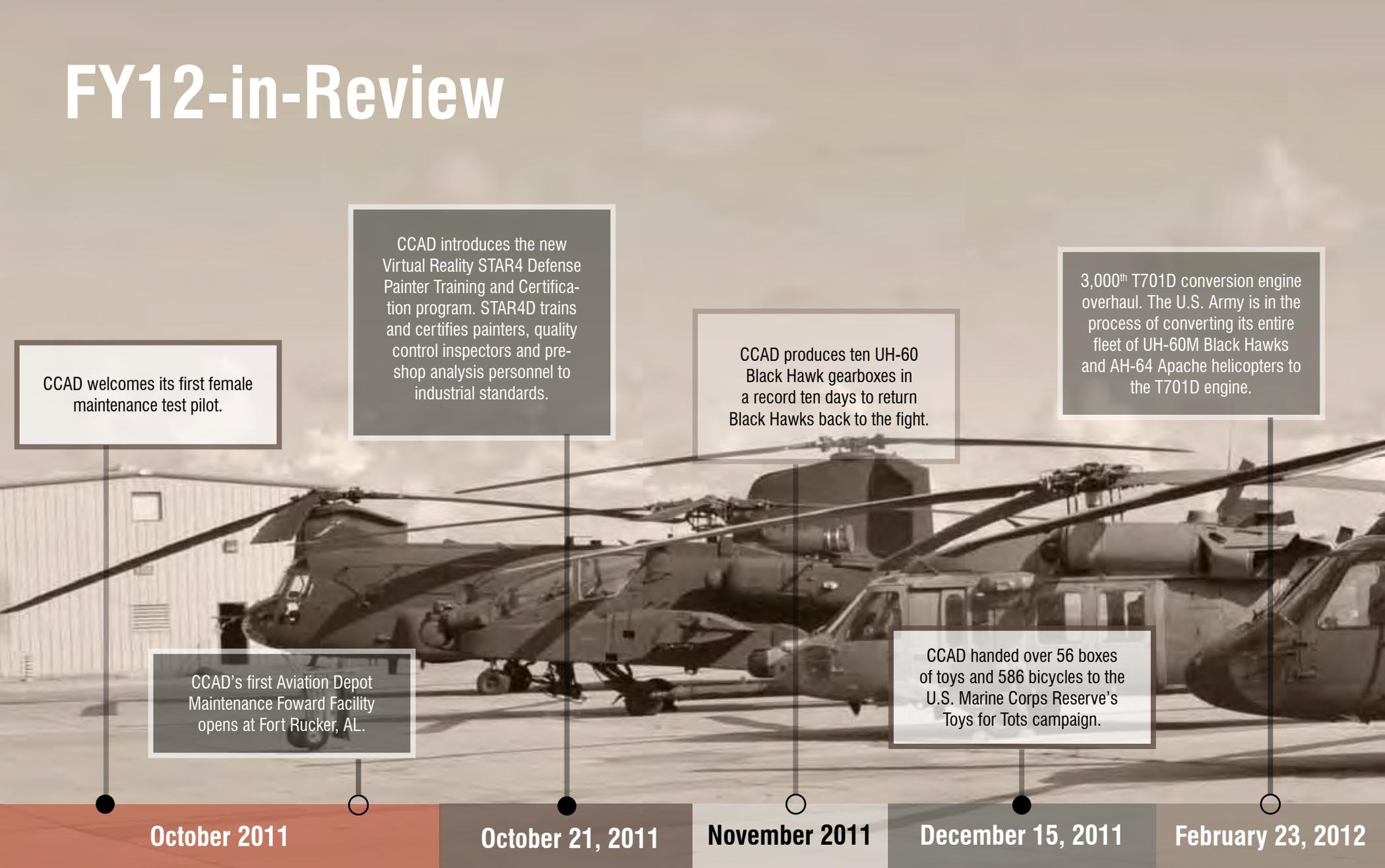
Sincerely,

A handwritten signature in black ink that reads "Christopher B. Carlile". The signature is written in a cursive, flowing style.

COL Christopher B. Carlile
Commander, Corpus Christi Army Depot



FY12-in-Review



CCAD welcomes its first female maintenance test pilot.

CCAD's first Aviation Depot Maintenance Forward Facility opens at Fort Rucker, AL.

CCAD introduces the new Virtual Reality STAR4 Defense Painter Training and Certification program. STAR4D trains and certifies painters, quality control inspectors and pre-shop analysis personnel to industrial standards.

CCAD produces ten UH-60 Black Hawk gearboxes in a record ten days to return Black Hawks back to the fight.

3,000th T701D conversion engine overhaul. The U.S. Army is in the process of converting its entire fleet of UH-60M Black Hawks and AH-64 Apache helicopters to the T701D engine.

CCAD handed over 56 boxes of toys and 586 bicycles to the U.S. Marine Corps Reserve's Toys for Tots campaign.

October 2011

October 21, 2011

November 2011

December 15, 2011

February 23, 2012



CCAD gains the capability to repair UH-60 Black Hawk main rotor blades using ultrasonic shot peening technology. The new computerized technology has the ability to shot peen small localized process areas in a matter of seconds.

Renovated military barracks for Soldiers that come for training at the depot.

CCAD delivered the first OH-58D Kiowa Warrior that was upgraded under the Wartime Replacement Aircraft Program.

First UH-60 L-L recapitalization.

10th Anniversary of the UH-60 Recapitalization Program. Fifty UH-60 Black Hawks completed for FY12.

CCAD inducts its first UAS Shadow.

March 2012

March 28, 2012

June 7, 2012

August 2012

September 2012

September 24, 2012

CORPUS CHRISTI ARMY DEPOT

HANGAR 8



UH-60 RECAP

128

Corpus Christi Army Depot



CCAD Overview

Corpus Christi Army Depot (CCAD) is a critical asset to the Army's Organic Industrial Base (OIB) as the largest rotary wing repair facility in the world. The depot has a unique set of capabilities in helicopter, Unmanned Aerial System (UAS), and component support that is essential for all branches of Department of Defense (DoD) and foreign military. CCAD's repair and overhaul capabilities are matched by a commitment to the customer, the Joint Warfighter, and to the American public by providing support that is better, faster and cost effective.

Skilled depot artisans take yesterday's aircraft and transform it into an elite flying machine packed with maximum capabilities and cutting-edge technologies to handle anything on the battlefield. The Joint Warfighter not only depends on CCAD to get them to the fight, but also to get them home; that is why the depot is committed to quality. Everything that leaves CCAD's hangars is in the best condition it has ever been in, delivered faster than ever and at the lowest possible cost.

CCAD understands the needs of the customer and that is why it has a team of the most skilled helicopter experts ready to deploy at a moment's notice. CCAD makes a promise to do what it takes to get its products back in the air through accident investigations, troubleshooting and repair anywhere in the world.

The best artisans have expertise and knowledge accumulated from decades of service, but CCAD consolidates it into intense and engaging training for Warfighters throughout DoD, including Active, Reserve and National Guard. Newly renovated barracks put Soldiers steps away from hands-on training that cannot be found elsewhere. Each Soldier returns to his or her unit with a unique skill set that is critical to the field.

By ensuring customer satisfaction through these elements and by forecasting future needs, the depot postures itself for years of continued service to the Joint Warfighter and the American people.

Mission

- *Our critical mission is achieved through a shared desire to support the American Joint Warfighter.*
- *Return Army rotary wing aircraft and components to the fight with uncompromising quality, at the lowest possible cost, in the shortest amount of time possible.*
- *Support the Army's accident investigation processes with subject matter expertise and reliable laboratory analysis anywhere in the world.*
- *When required, assess, evaluate and repair forward-deployed aircraft and components anywhere in the world, to include forward capabilities as required.*
- *Support Active, Reserve and National Guard maintenance skill development with hands-on experience at the depot.*

CCAD Values

Commitment

To excellence in all we do

Loyalty

To our community and our customers

Accountability

We live for better, faster and lowest cost

Honesty

Our actions match our beliefs

Personal courage

We choose the right and lead the way

Selfless Service

Is organic to our artisan and visible in our products

Teamwork

Our critical mission is achieved through a shared desire to support the American Joint Warfighter



CW3 TRINA MORENO



CCAD's FIRST FEMALE MAINTENANCE TEST PILOT
PREPARES TO TEST FLY A UH-60 BLACK HAWK

JACOB PARKS



*RUNS ELECTRICAL WIRES FOR
THE OH-58 KIOWA WARRIOR*



Joint Warfighter

Corpus Christi Army Depot provides maintenance, repair and overhaul services to more than just Army Aviation to support every Soldier, Sailor, Airman and Marine. The Joint Service Aircraft Maintenance status helps ensure the depot's future, along with the Lean and Six Sigma initiatives implemented during the past nine years. Since the early 1990s, the depot has returned more than 170 Air Force HH-60 Pave Hawks and thousands of components for Air Force, Navy and Marine helicopters to the fight. The joint effort is in addition to the hundreds of

Army UH-60 Black Hawks, CH-47 Chinooks, AH-64 Apaches, OH-58 Kiowa Warriors and related components that have found their way to the frontlines. Each Air Force, Navy and Marine helicopter and component is given the same high-level priority as each Army aircraft. The cost and time consumed would be substantially greater if the components or aircraft were purchased new. CCAD brings all military branches together to serve the same mission, which is supporting the Joint Warfighter.

***CCAD is a Center of Industrial
and Technical Excellence***



FY13–FY14 Balanced Scorecard



MARIA ZAMORA

APPLIES SEALANT ON THE TAIL
CONE OF A UH-60 BLACK HAWK

Financial

- Improve data accuracy to ensure stewardship and audit readiness.
- Balance carryover.
- Optimize inventory levels and reduce excess material.
- Reduce UFCs through cost management.
- Improve financial administration oversight.

Customer and Quality

- Meet the command schedule coordinated with AMCOM.
- Improve production process management including master data.
- Apply Depot Transformation Team concepts to other activities and departments.
- Improve the effectiveness of quality oversight.
- Communicate the value of CCAD to key stakeholders and customers.

Employees

- Continue the focus on employee and product safety.
- Recruit and retain a flexible highly skilled workforce.
- Invest in the financial and business skill of our leaders.
- Improve the work-life balance.
- Empower employees to participate in positive change.

Organizational Improvement

- Improve efficiency of support processes.
- Increase our proficiency and discipline in LMP and shop floor automation tools.
- Synchronize policy and documentation to CCAD innovations, certifications and strategy.
- Implement proactive infrastructure sustainment plans and management.
- Improve the acquisition process for required materials and services.



ABEL CARRION



WELDS A STAINLESS STEEL BASKET USED TO
HOLD AIRCRAFT PARTS DURING PROCESSING



CORI HILL & KAREN NICHOLS

*EVALUATE THE TAIL ROTOR OF
AN OH-58 KIOWA WARRIOR
DURING PRE-SHOP ANALYSIS*

Programs

Aircraft Programs

UH-60 Black Hawk Recapitalization (RECAP)

50 Sold in FY12 CCAD's Black Hawk Recapitalization Program adds years to the life of each UH-60 and loads it with the latest and best technology and systems, creating a chopper that is equal to or better than a new one. By continuing to invest in aircraft already in their inventory, the Army is able to provide the Warfighter with a state-of-the-art aircraft that is a proven game-changer in combat. During a time when budgets are tight, CCAD delivers a superior aircraft for millions less than the cost of a new one, making CCAD as practical as it is economical.

UH-60 Black Hawk Crash Damage

6 Sold in FY12 Trusted as the front-line utility helicopter of choice for combat, the UH-60 Black Hawk is pushed to its limits every time it takes flight. This makes the UH-60 susceptible to damage both in and out of combat, but the Army cannot afford to ground a helicopter, nor can they afford to risk a Soldier's life by giving him a damaged aircraft. CCAD's Crash Damage Program repairs and rebuilds damaged UH-60 Black Hawks and sends it back into action. CCAD's skilled artisans also perform and install the latest structural and technological upgrades to give the American Soldier the edge in combat.

HH-60 Pave Hawk

9 Sold in FY12 The HH-60 Pave Hawk is a highly modified version of the UH-60 Black Hawk that is used by the United States Air Force for combat search and rescue. Providing rescue support to all U.S. military services, foreign military and non-military combatants, the HH-60 Pave Hawk workload is a symbol of CCAD's commitment to the Joint Warfighter. Dedicated CCAD artisans perform depot-level maintenance and prolong the life of each aircraft through its Structural Integrity Program that either replaces or modifies parts on the HH-60 Pave Hawk's airframe.

OH-58 Kiowa Warrior WRA/Overhaul/Crash Damage/Repair & Return

20 Sold in FY12 The Army continues to rely on the OH-58 Kiowa Warrior as the primary air reconnaissance helicopter though production ceased thirteen years ago. The Army now counts on CCAD to sustain and improve the fleet at least until 2025. In the past year, CCAD launched a new program and upgraded its first Wartime Replacement Aircraft (WRA) Kiowa. The WRA Program is the Army's initiative to replace those lost. The program is a joint effort with CCAD, the Armed Scout Helicopter (ASH) Project Office, the Aviation Field Maintenance Directorate (AFMD) and Bell Helicopter providing the Army a cost-effective and efficient way to replenish lost aircraft.

CH-47 Chinook Recap/Crash Damage

5 Sold in FY12 The CH-47 Chinook is the Army's heavy-lift transport helicopter designed to move troops, weapons and essential equipment during combat and support missions. The recapitalization effort modernizes onboard electronics, restores airframe integrity and improves flight performance. The depot supports the D and F Model Chinooks and the MH-47G Special Operations Aviation version. Through recapitalization and crash damage repair, CCAD continues to drive down the cost of Army aviation by maintaining the current fleet.

AH-64 Apache Pre-Mod/Repair & Return/Crash Damage

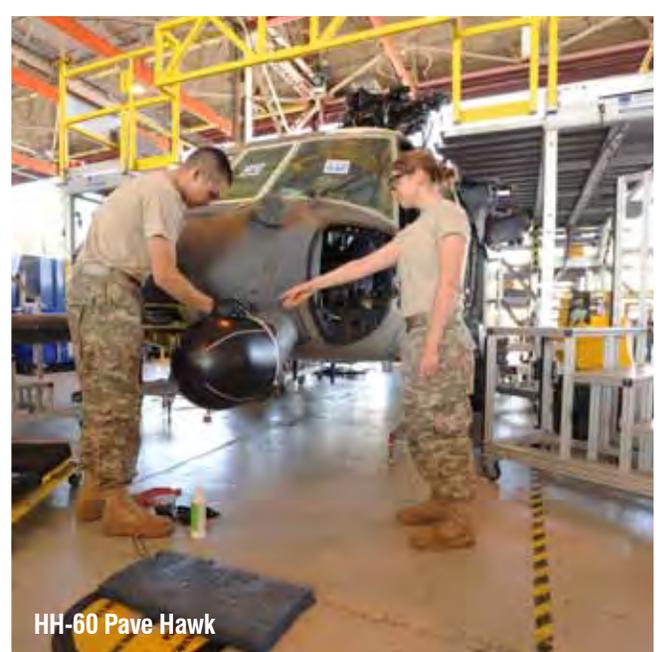
17 Sold in FY12 CCAD is Department of Defense's only depot capable of AH-64 Apache support. The Apache is the Army's primary attack helicopter, capable of defeating a wide range of targets with highly mobile and effective firepower. CCAD artisans recently completed its 128th AH-64 Pre-Modernization Aircraft, completing the program. They continue with Crash Damage and Repair & Return efforts to ensure the Joint Warfighter is armed with the most advanced and effective aircraft that delivers superior performance and lethality on the field.



UH-60 Black Hawk A-L/L-L Recap



UH-60 Black Hawk Crash Damage



HH-60 Pave Hawk



OH-58 Kiowa Warrior WRA/Overhaul/
Crash Damage/Repair & Return



CH-7 Chinook Recap/Crash Damage



AH-64 Apache Pre-Mod/Repair &
Return/Crash Damage



Component Repair



OH-58 Kiowa Warrior CASUP



Engine and Transmission Repair



Unmanned Aerial System Shadow

Engines and Components

Engine and Transmission Repair

The Engine and Transmission Test Facility is the only facility to test AH-64D Apache transmissions along with UH-60A/L, CH-47D and OH-58 transmissions. It is the only facility capable of overhaul, repair and modification of all Army, Navy, Air Force and Marine rotor heads and rotor controls. Additionally, nearly 3,000 General Electric T701Ds and 400 Honeywell T55-714 engines have been produced with a significantly reduced turn-around-time since the workloads were assumed.

Component Repair

Eighty percent of the total revenue is component repair. Components Production plans, coordinates and executes hydraulic, mechanical, electrical, avionics, instruments, bearings, aircraft rotor systems, rotary wing, rotor heads, rotor controls and related aircraft component production at CCAD to meet scheduled maintenance requirements of the DA, DoD and other U.S. and foreign customers. Components programs continues in the implementation of Lean Six Sigma manufacturing and production methodologies and Continued Process Improvements, Value Stream Mapping (VSM), Rapid Improvement Events (RIEs) and Lean Six Sigma events. In 2009, Lean events netted a total cost avoidance of \$12,798,765.

INSTRUMENTS
OH-58D
CASUP

T-700
ROTARY
WING

Future Workload

Unmanned Aerial System Shadow

31 Planned in FY13

CCAD recently inducted its first new platform in decades, a non-rotary wing program, the UAS Shadow. This new program will include Modification, Repair and/or Overhaul associated with the Tactical Unmanned Aerial System Shadow 200. This is a pilot-free reconnaissance aircraft that can recognize tactical vehicles up to 8,000 feet in the air, day or night. The Shadow gives the Army superior capabilities without risking the Soldier's life, making CCAD's mission to maintain "Ready-For-Issue" Shadows critical.

OH-58 Kiowa Warrior CASUP

CCAD was awarded the Cockpit & Sensor Upgrade Program (CASUP) in December 2011 to convert the OH-58D Model to an F Model. In the process, CCAD artisans will address additional capabilities, safety enhancements and obsolescence issues. CCAD artisans will give the Warfighter an edge in combat by upgrading aircraft with cutting-edge sensing technologies. By FY15, depot artisans expect to produce 27 aircraft and 40 in FY17.





HANGAR 45



A TEAM ASSEMBLES AN OH-58 KIOWA
WARRIOR IN SUPPORT OF THE WARTIME
REPLACEMENT AIRCRAFT (WRA) PROGRAM

Production

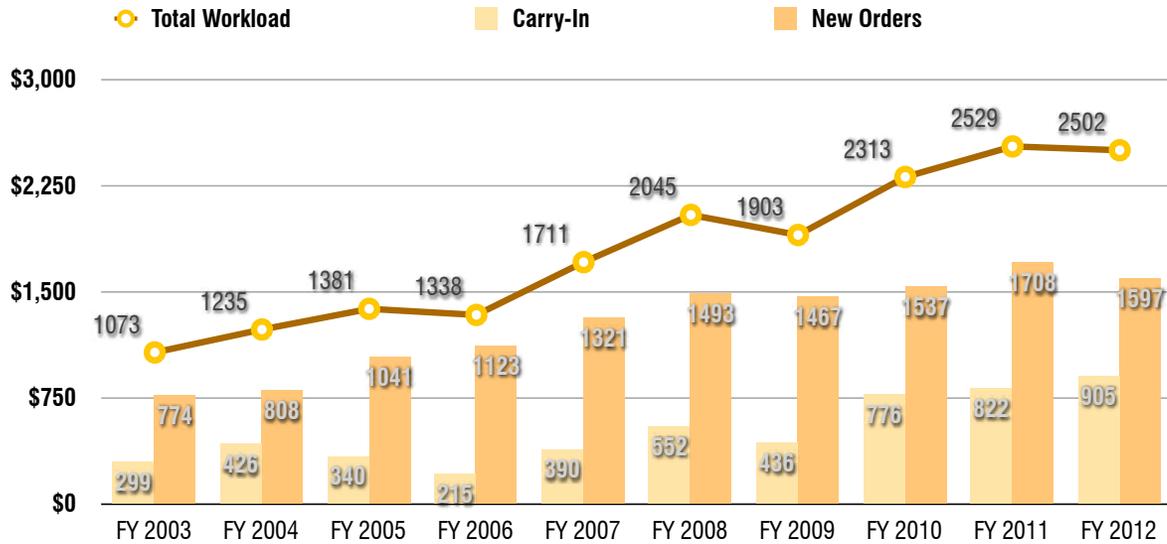


JOSH GONZALES



*WORKS ON AN OH-58 INSTALLING STATION
192 FRAME USING A RIVET GUN*

Workload



CCAD continues to improve production efficiencies as workload requirements evolve. In FY12, CCAD surpassed the previous year's airframe production of 103 to produce 107 airframes. CCAD topped the previous year's stellar production of 49 UH-60 Recapitalization (Recap) airframes by producing 50 UH-60 Recap airframes in FY12. In addition to the UH-60, CCAD ramped up production on the OH-58 Kiowa Warrior. CCAD produced an additional eight airframes over FY11 as workload for the OH-58 Premod, Wartime Replacement Aircraft, and Crash Battle Damage Programs continue to evolve.



Shot Peen

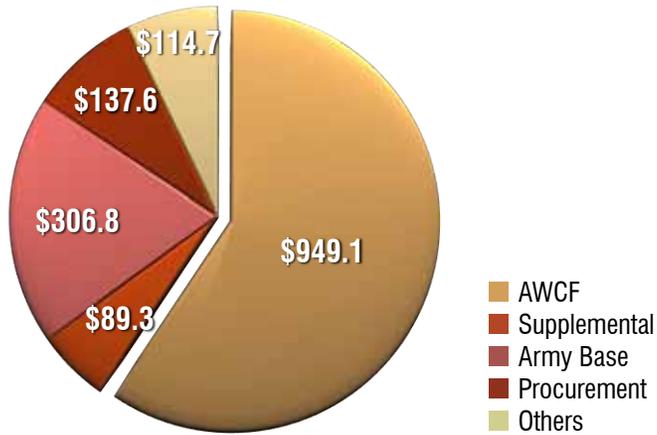


Hands on Training

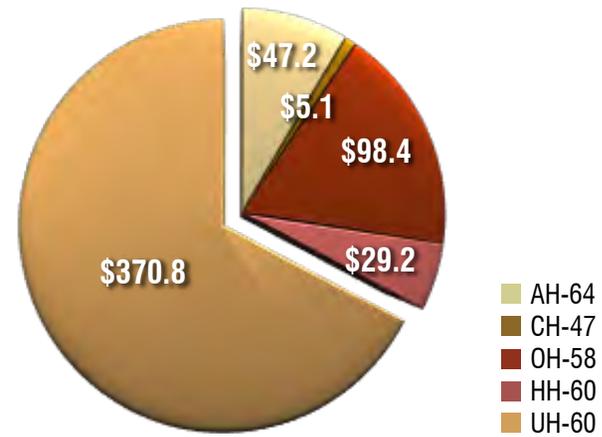


Wartime Replacement Aircraft Program

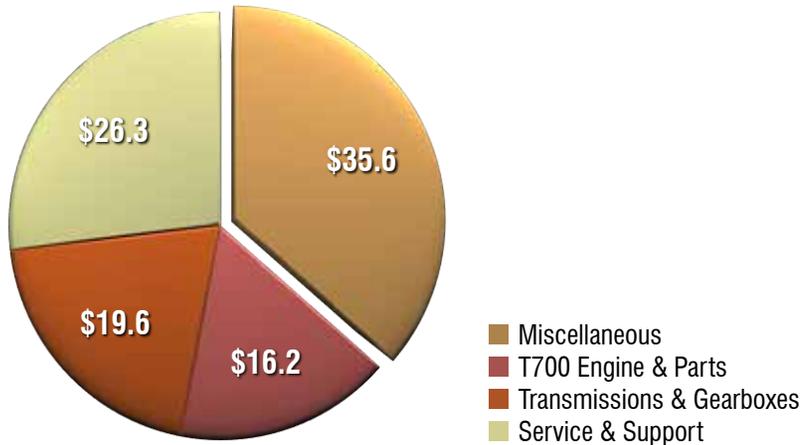
New Orders by Customer \$1,575.5M



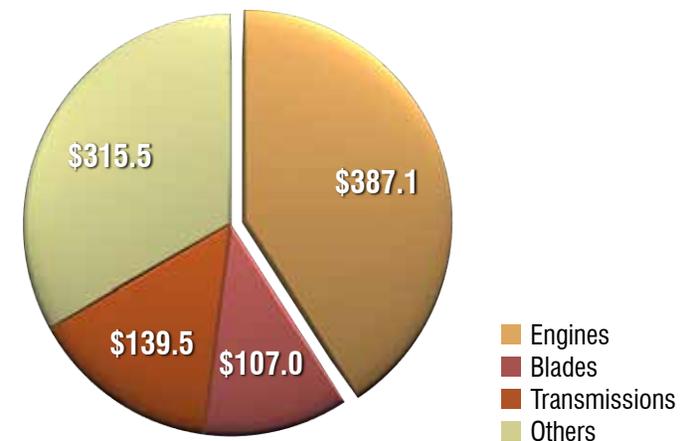
Airframes New Orders \$550.7M



Other DoD/FMS \$97.7M



Components New Orders \$949.1M





HANGAR 46

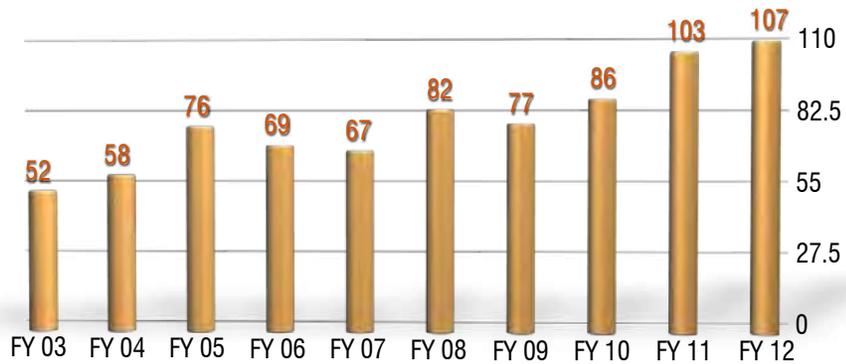


UH-60 BLACK HAWKS IN THE
ASSEMBLY PROCESS

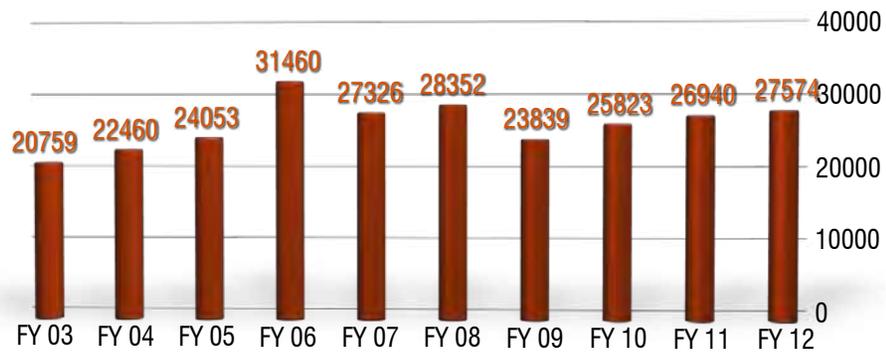
DO NOT
CROSS
OVER PIPE

33
38

Aircraft Production



Component Production



PAUL MOORE

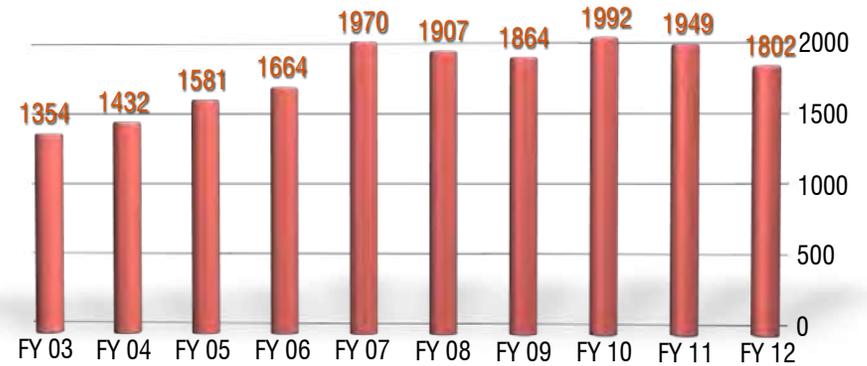
CONDUCTS A ROOF UPGRADE
FOR A UH-60 BLACK HAWK

These milestones are critical to Army Aviation in reducing turnaround times for critical assets for contingency operations. The requirements and workload for HH-60 Pave Hawk airframes dipped slightly in FY12 resulting in a production decrease of four airframes for the year. Not to be out done by Aircraft Production, Aviation Systems continued its steady production.

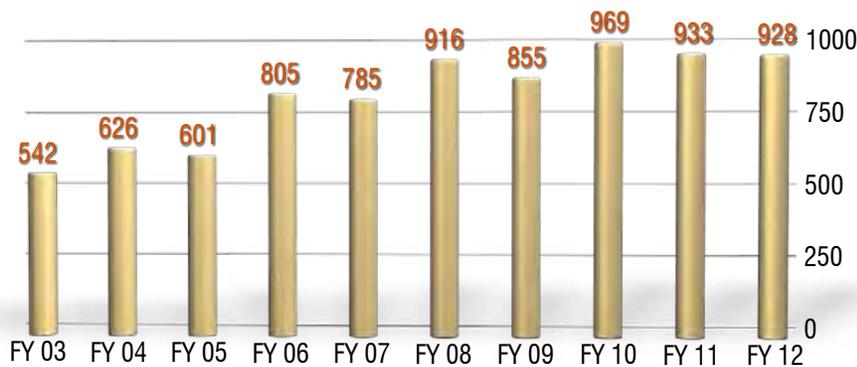
Artisans continue a focused approach on delivering quality products to the Warfighter.

Overall, component production was up 2.3% over FY11 primarily led by rotor blades, cold section modules, and gearbox production. Transmissions, power turbine modules, and engines dropped off slightly from the previous year primarily due to reduced requirements. Whether its airframes or components, CCAD's employees, managers, contractors and artisans continue a focused approach on delivering quality products to the Warfighter.

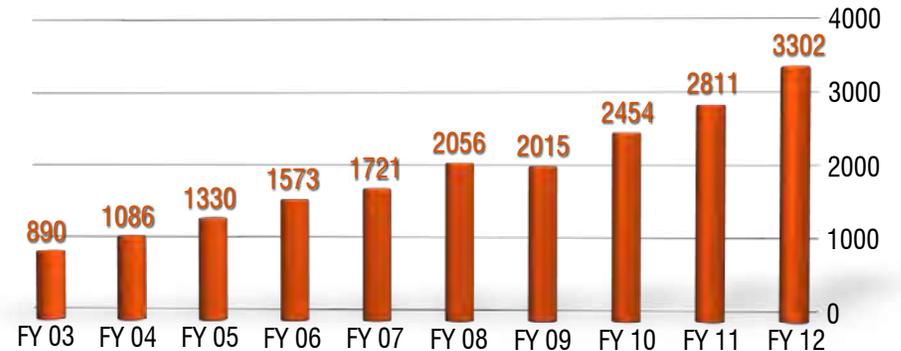
Transmission Production



Engine Production



Rotor Blade Production



A woman in a purple shirt is holding a large, dark-colored gear component. She is standing in a factory or workshop. In the background, there are other workers, machinery, and a computer workstation. The scene is brightly lit with overhead fluorescent lights. The woman is looking at the gear she is holding. The gear has a complex, multi-toothed design. The workshop is filled with various tools, equipment, and parts. The overall atmosphere is one of a busy industrial environment.

MELISSA PEREZ

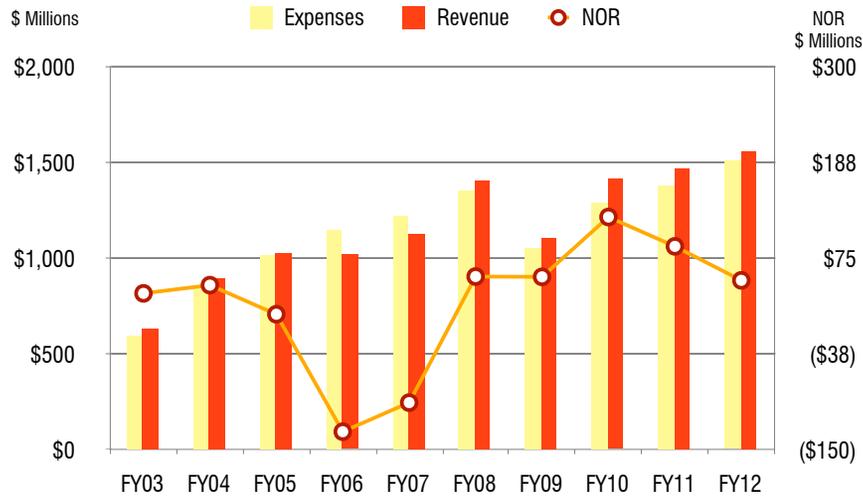


*CHECKS FOR PATTERN PINIONS FOR THE
CH-47 CHINOOK COMBINE DURING THE
BACKLASH PROCESS*

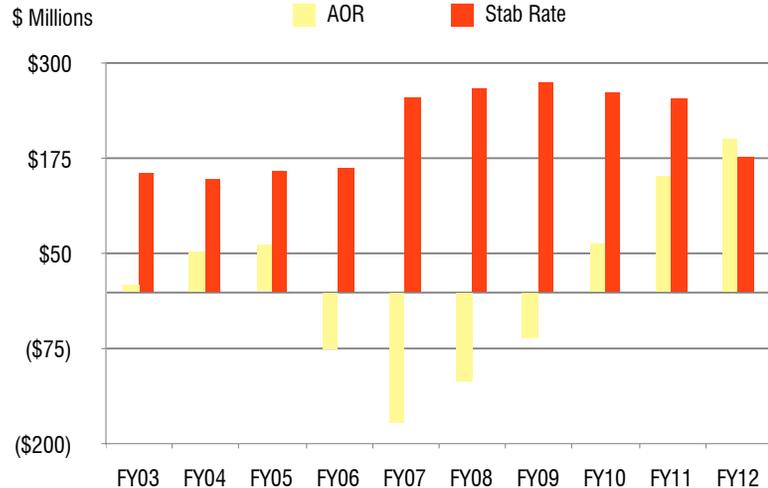
CH-47 COMBINE XNSX

Financials

Net Operating Results



Recoverable AOR Comparison (with Stabilized Rate)



Net Operating Results

NOR
\$ Millions
\$300
\$188
\$75
(\$38)
(\$150)

CCAD's evolution as a critical DoD aviation supplier is manifested in its financial statements. From FY03 thru FY11, the annual depot revenue grew an average of 13%. At the end of FY12, annual revenue was \$1,559.7M versus \$1,471.9M in FY11, a 6% increase. The most significant drop in revenue occurred in FY09 from the transformation to the new enterprise system, Logistics Modernization Program (LMP).

Comparable to revenue, depot expenses continue to grow. From FY03 thru FY11, depot expenses increased an average of 14%. At the end of FY12, depot expenses were \$1,510.4M versus \$1,382.6M in FY11, a 9% increase.

The financial impacts from the LMP transformation included adjustments in revenue recognition, such as recognizing negative revenue from material credits, and adjustments to material costs from fluctuations in moving average costs. Even though the depot is not fully mature in its LMP processes, since FY09 they have made significant improvements.

Recoverable AOR Comparison with Stabilized Rate

Despite the adjustments in FY09, the depot's Recoverable Accumulated Operating Result (AOR) remained positive, as the depot recovered from the negative Recoverable AOR of \$170.9M

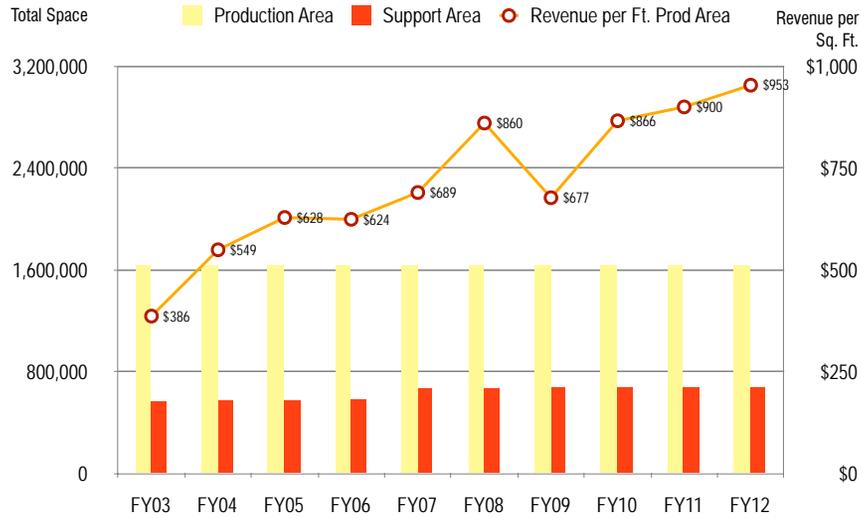
in FY07. Increasing rates from FY06 to FY09 helped bring the AOR back above zero in FY10. The accumulation of positive Recoverable AOR allowed the depot to decrease rates for customers in FY10, FY11 and FY12. CCAD solidifies its cost-conscious culture and optimizes efficiencies with Lean Six Sigma and LMP.

Revenue Generation Per Area

To develop a standard baseline, the depot illustrates its revenue growth as a function of total production area as shown on this chart and on direct personnel strength and direct labor hours as shown on the next chart (Revenue Generation).

At the end of FY12, annual revenue was **\$1,559.7M vs. \$1,471.9M** in FY11, a **6% increase**.

Revenue Generation Per Area



By the end of FY12, the indirect support area increased by 29.1% though spacing has remained steady at 1.6 million square feet since FY03.

With an increasing revenue stream since FY03, CCAD'S revenue per square foot of production has also increased. CCAD experienced a 5.9% revenue increase per square foot between FY11 and FY12. While the commercial industry seeks to increase revenue generation, DoD operations like CCAD, work with taxpayer dollars. Lower rate reductions means lower costs.

With the addition of the Dynamic Component Repair Facility, it will take some time to maximize the revenue as the depot establishes new production areas and reorganizes space in existing facilities.



JESUS TORRES



INSPECTS THE ENGINE OF AN
OH-58 KIOWA WARRIOR



ARMANDO VALDEZ



FABRICATES DRILLING STRAPS FOR THE TOP
TAIL CONE SKIN FOR A UH-60 BLACK HAWK

Revenue Generation

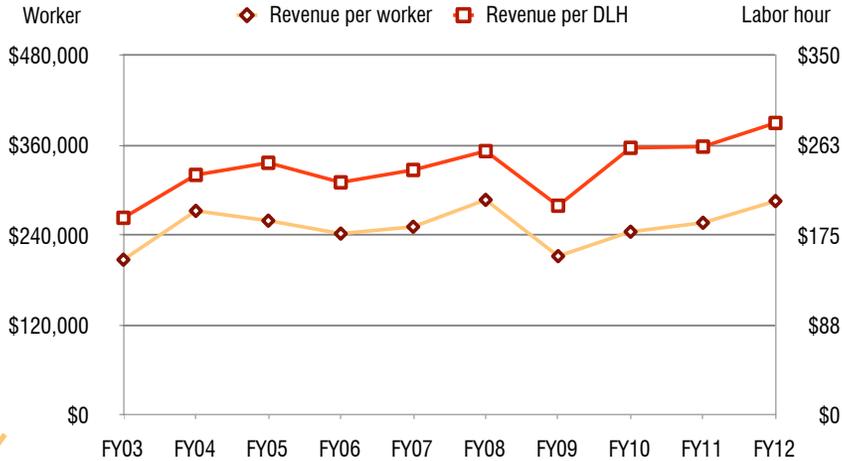
When examining the revenue growth as a factor of personnel or labor hours, there are very similar profiles and trends. Both profiles begin a gradual increase after the LMP integration in FY09.

In FY03, revenue generation per worker was \$207.7 thousand, but over the past 9 years there has been a gradual increase to reach the current value of \$286.1 thousand per worker. For direct labor hours, the depot earned \$192 for every direct labor hour worked in FY03, but now earns \$285 per direct labor hour. The positive revenue trends are not limited to these indicators, but other indicators associated with costs are also favorable.

FY03, revenue generation per
worker: **\$207.7K**

FY12, revenue generation per
worker: **\$286.1K**

Revenue Generation



FY03, \$192 per direct labor hour

FY12, \$285 per direct labor hour

Overhead Investment

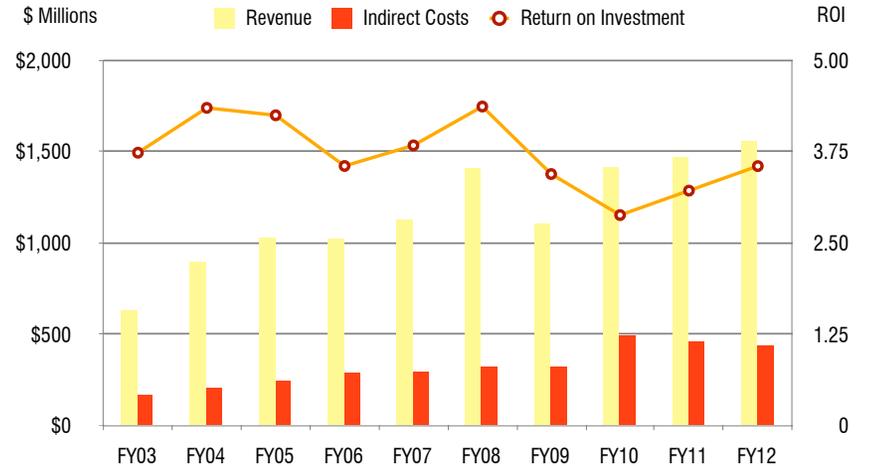
Another attribute of our cost-conscious culture is the contribution of indirect support towards revenue maximization. From FY03–08, the depot recognized on the average \$3.01 of revenue for each indirect \$1 invested.

With the implementation of LMP in FY09, the revenue decreased to \$2.88 for every \$1 invested through FY10. This is attributed to the decrease in revenue and an increase in indirect costs with the

implementation of LMP in FY09. In FY11, CCAD turned the corner by decreasing indirect costs while still maintaining a positive return for every \$1 of indirect cost invested.

This trend continues to increase through FY12, which saw a dip in indirect costs of \$18.071 million and an increase to CCAD’s indirect cost investment which generated \$3.55 of revenue for every \$1 of indirect cost invested.

Overhead Investment





HANGAR 46



A TEAM ASSEMBLES THE MAIN ROTOR
SECTION OF A UH-60 BLACK HAWK

Innovations for Efficiency

Logistics Modernization Program

During a time when Department of the Army is experiencing massive budget cuts and workforce reductions, CCAD is producing more, spending less and maintaining its manpower. Within one fiscal year, nearly 6,000 CCAD employees and industry partners underwent a series of changes to become a government entity focused more on cost and performance and less on budget.

The Logistics Modernization Program (LMP) better allows organizations, like Army Aviation and Missile Command (AMCOM), to have total asset visibility of inventory and a single common view of inventory, while improving communication with the depot. It also allows for

visibility over contractor-managed inventories that legacy systems did not allow. LMP allows the Army to order inventory on a just-in-time schedule thus improving efficiency within repair processes and cutting down on storage costs.

LMP has allowed the Army to maintain and strengthen its Organic Industrial Base by allowing CCAD to focus on and improve process in their workload, while Headquarter staff pulls necessary reports and data. Through LMP, the CCAD workforce catalyzed an enterprise approach to operations to affect the overall costs of Army Aviation and turn every dollar saved into more capability for the Army.



...focused more on cost
and less on budget.

A woman in a red shirt is standing and pointing at a computer monitor. A man in a striped shirt is sitting at the desk, looking at the monitor. The background shows an office with other people and desks.

**STEPHANIE LEAL &
JOHN DAVILA**



*READ AND INTERPRET LMP DATA
FROM TRANSACTIONAL INPUT*



ROBERT BILBREY
OF AVION SOLUTIONS DEMONSTRATES HOW TO
USE THE ULTRASONIC SHOT PEENING TECHNOLOGY



BUILDING 8



LASER CUTTER



GEORGE PEREZ
CREATES A PART USING THE
FLUID CELL PRESS

Capabilities

Ultrasonic Shot Peen

Due to space limitations at the shot peen shop, repairs to the UH-60 main rotor blades could not be accomplished. CCAD refurbished the blades at Original Equipment Manufacturing facilities which incur a high repair cost along with more time spent away from the depot. We had the skilled artisans, we just didn't have the space. So the idea for a portable shot peen machine was born.

This technology will ensure what the depot is doing for flight critical components meets the requirements of our depot's maintenance and overhaul standards. Our ultrasonic shot peen technology allows us to take the machine to the blade, when they can't bring the blade to the machine.

Ultrasonic peening has been recently considered an alternative to conventional shot peening due to its versatility in establishing localized repairs on the field. The new computerized technology has the ability to shot peen small localized process areas in seconds. This capability increases our readiness and reduces turnaround time.

In the last year CCAD has saved 28 rotor blades from becoming scrap, resulting in a cost avoidance of approximately \$160K per blade.

Laser Cutter

Depot artisans are a step closer to automating the entire sheet metal manufacturing process at CCAD with a new laser cutter. The fixture is a high performance linear motor that delivers high-speed cutting for fast, continuous processing of high quality parts.

The laser cutting fixture cuts sheet metal patterns that are later formed with the fluid cell flex press or power brakes before they are put on a helicopter. With a cutting speed of 40 meters per minute, the laser is faster than producing patterns by hand. The laser can cut through several thicknesses of different material, including plate steel, stainless steel and aluminum. Patterns are guaranteed to cut with repetitive accuracy.

In the past, a sizeable product like a UH-60 bulkhead required the part to be pressed by hand in multiple sections. Now, the laser cutter can cut a pattern in as little as five minutes. The laser cutting fixture and the subsequent automation implementations will allow CCAD to schedule accurately and allow the training of a more technologically-proficient workforce to meet unpredicted surges in demand.

Fluid Cell Press

CCAD's new Fluid Cell Press forms vital parts for the UH-60, CH-47, AH-64 and OH-58 aircraft in-house.

Replacing the 67-year old Farquhar Press that was in constant need of repair with limited parts availability, the modernized press streamlines production with a continuous flow of parts in less time, at a lower cost and with higher accuracy than ever before.

Now, CCAD has more capabilities to sustain aircraft with the fluid cell press' ability to form larger airframe parts and to press multiple parts at once at a fraction of the time. It also eliminates a number of processes and requirements that eat up production time. The new forming process maximizes efficiency by reducing turnaround time and cost by 95% while producing at nearly 100% sell quality.

This new technology has revolutionized the way CCAD works. An aircraft former that used to cost \$17K and take more than 300 days of lead time now takes only \$1G and a fraction of a day to produce.





HANGAR 44



CCAD EMPLOYEES HELP LOAD
UP DONATIONS FOR THE 2012
TOYS FOR TOTS CAMPAIGN

Stewardship



FLIGHT LINE



UH-60 A TO L RECAP BLACK HAWK
ON THE FLIGHT LINE

Environmental

CCAD implemented an Environmental Management System (EMS) to reduce its impact on the environment. EMS identifies environmental concerns exclusive to CCAD operations, and enables CCAD to strive towards its goals to reduce waste, material use and energy consumption. The system not only guarantees consistent environmental results, it also achieves significant cost avoidance while working in accordance with ISO 14001 and Department of Army guidance.

In its first full audit year, CCAD performed 88 EMS performance audits and issued 34 environmental Corrective Action Reports (e-CARs), establishing a baseline for future improvements. Since its inception, CCAD has made strides through many pollution prevention initiatives including recycling, wastewater screening and by reducing waste toxicity.

Safety

CCAD is so well known for its safety that the Department of Army (DA) recognized it with a DA Industrial Operations Safety Award and a DA Safety Award for Excellence – Civilian. As a model of Safety throughout the Department of Defense, CCAD continues its obligation towards a safer work environment.

Safety Audits

CCAD created safety audits as a more comprehensive and internal replacement of conventional safety inspections. With

Since its inception, CCAD has made strides through many pollution prevention initiatives including recycling, wastewater screening and reducing waste toxicity.

over 1,600 hazards corrected so far, these safety audits have increased hazard identification and effective hazard elimination throughout the depot.

Army Medics

Recruited by and supported through the DoD Personnel Force Innovation Program (PFI), CCAD introduced Army Reserve Soldiers as industrial base medics in April. Since its inception, injury response and care time has been reduced by as much as six hours per injury. More importantly, CCAD personnel receive superior aid by experts in emergency response.

Personal Protection Equipment

CCAD's Safety Office created an online ordering system for all Personal Protection Equipment, including safety shoes and prescription eyeglasses. This new online shop has seen a huge return on investment as it reduces wasted man hours and foot traffic by providing delivery to the work center.

Fitness-In-Training (FIT) Weight Loss Contest

This annual 12-week weight loss challenge had more than 500 contestants that collectively lost more than one ton. These contests are helping change lifestyles that will lead to a healthier workforce.

Community Outreach

CCAD employees engage in a number of outreach programs to benefit their community and organizations close to their hearts. The CCAD workforce is a major driver for every community effort. It is a symbol of the dedication and sacrifice of the entire CCAD team who is willing to do for the greater good.

Through the Coastal Bend Combined Federal Campaign, CCAD donors have consistently increased their level of giving by raising more than \$768,000 in 2011. "Share Your Christmas Food Drive" and "Feds Feed Families" are CCAD-

supported food drives. The Corpus Christi Food Bank regards CCAD as one of the top contributors every year. "Toys for Tots," the Marine Corp Reserve campaign, is a campaign CCAD employees hold close to their hearts. In 2011, CCAD employees donated over 5,200 toys and 414 bikes to the less fortunate children of the Coastal Bend during the holidays.

CCAD was awarded the National Award of Excellence for the Most Productive Blood Drive on behalf of America's Blood Centers as employees donate their blood on a continual basis throughout the year.

Operation Paint Brush sends teams of CCAD volunteers to paint houses belonging to lower income families, the disabled and senior citizens.

Operation Christmas Spirit brings CCAD volunteers local nursing homes as they deliver holiday cheer through gifts, songs and smiles.

As a model of safety throughout the Department of Defense, CCAD continues its obligation towards a safer work environment.



CCAD employees represent the depot in Corpus Christi's annual July 4th Stars and Stripes Celebration.





**DYNAMIC COMPONENT
REPAIR FACILITY (DCRF)**



*IN THE EARLY STAGES OF CONSTRUCTION
Spring 2011*

Investing In Our Future

Partnerships and Contracts

CCAD has symbiotic partnerships with key players in private industry. In FY12, there were a total of 1,561 contracts worth more than \$100 million that allowed CCAD to be better, faster and cost-effective. The following are just some of our amazing partnerships.

Technical, Engineering and Logistical Services and Supplies (TELSS): our Original Equipment Manufacturers work closely with CCAD to ensure quality support to America's Warfighter. In turn, these partnerships look to CCAD as a needed resource when it comes to our unique capabilities. Our main partnerships are well-known in the aviation industry.

The Boeing Company, awarded in 2010, supports the CH-47 Chinook (100 components) and the AH-64 Apache (30 components). Altogether, Boeing has more than 7,500 repair parts and services with an estimated contract value of \$714 million.

General Electric has supported the T700 engine for CCAD since 2005. With a total estimated value of \$1.342 billion, this partnership supports the T700 family of engines, modules and components with nearly 1,000 repair parts and services. Honeywell supports the T-55 engine and components with more than 1,300 repair parts and services. This partnership was awarded in 2005.

Sikorsky Aircraft Corporation, awarded in 2008, supports the H-60 helicopters and components with more than 7,200 repair parts and services. In addition, CCAD relies on vendors for parts repair, manufacture and manpower support.



Winter 2011



Spring 2011



Fall 2011



Spring 2012

L3 Vertex Aerospace provides logistical, administrative and base operations support to include data input with data gathering. L3 also provides skilled labor in the inspection, maintenance and repair of rotary wing aircraft and components. This contractor is skilled in the performance of aviation unit maintenance, depot level, aviation life support equipment, flight and maintenance records on aircraft and related equipment.

Advanced Employment Services or Mental Health Mental Retardation provides custodial services and supplies throughout the depot. Other contractors that provide support to CCAD and the Warfighter include Vanguard Resources Corporation, Gold Belt Falcon, NTA Tool Room, Gabriel Group, SIDTEK,

Camber, Telesto Group, Bell Helicopter, Cape Environmental, SERCO, DYONYX, Knowledge Based Systems, Computer Science Corp, DEMATIC, Gleason Research Associates, South Texas Lighthouse for the Blind, Congleton Inc, IHS and Kcorp Technology Services Inc.

Additionally, CCAD's Business Development Office utilizes local channels to find the best support offered in the region and gives private businesses the tools needed to do work for CCAD. The depot understands that its success relies on the continuation and development of key partnerships that will result in a top-quality product at the lowest price with the quickest turnaround.



**DYNAMIC COMPONENT
REPAIR FACILITY (DCRF)**



NEARLY COMPLETE INTERIOR



FLIGHT LINE



SOLDIERS PREPARE TO TAKE
THEIR AIRCRAFT HOME

Leadership



COL Christopher B. Carlile
Commander, Corpus Christi Army Depot

COL Christopher B. Carlile was commissioned in 1989 as a Second Lieutenant from Arkansas State University with a BS in Zoology. He holds an MBA from Embry-Riddle and a MS in Strategic Studies from the Air War College. He is a certified maintenance examiner rated in the UH-1, OH-58, UH-60 and CH-47 with over 600 hours of maintenance test flight time.

COL Carlile's military education includes the U.S. Air War College, Command and Staff Course, Nuclear Planning and Execution Course, U.S. Army Space Operations School, Logistics Executive Development Course, Combined Arms Services Staff School and the Infantry Officer Advanced Course. He is a qualified Space Operations Officer and served as a Nuclear Strike Advisor for President George W. Bush. He is a Distinguished Honor Graduate of the Aeroscout Aviation Course.

COL Carlile's first assignment was to VII Corps in Germany in 1990. While there he deployed serving as the Supply Support Activity and Maintenance Platoon Leader during Operations Desert Shield and Desert Storm and the

Aviation Intermediate Maintenance (AVIM) Production Control Officer during Operation Provide Comfort in Turkey and Northern Iraq. While assigned to the 10th Mountain Division, he deployed to Somalia where he served as Production Control Officer and Aeroscout Pilot during Operation Restore Hope. COL Carlile served as the Attack Helicopter Training Battalion Executive Officer (XO) and Operations Officer (S3) supporting six reserve attack helicopter battalions. He later served as the 4th Cavalry Regimental Operations Officer (S3) at Fort Knox, Kentucky. COL Carlile commanded A/8-101 (AVIM) at Fort Campbell, Kentucky deploying to Kosovo KFOR-3A and Afghanistan. He served as the 8-101st Aviation Regiment (AVIM) Executive Officer (XO) in Iraq during Operation Iraqi Freedom.

COL Carlile's most recent assignments include, Battalion Command of the 1-223d Aviation Regiment, Fort Rucker, Alabama and later as the Deputy Chief of Staff for the Aviation Center and Fort Rucker. COL Carlile most recently was the Director of the Unmanned Aerial Systems (UAS) Center of Excellence and assumed Command of Corpus Christi Army Depot June 2010.



Kresten Cook
*Deputy to the
Commander for Support*

Kresten Cook began his career at CCAD in 1983 as an Industrial Engineer and is currently the Deputy to the Commander for Support. He has previously held the position of Deputy to the Commander for Production.

During his 28 years at the depot, Cook advanced through several engineering, business development and production leadership positions. Cook's experience at CCAD includes initiating the Business Development Office where he established the initial wave of partnerships between

CCAD and Original Equipment Manufacturers and the depot's world-wide operations. He also led CCAD's Production Control and Programs Divisions, and was CCAD's Deputy to the Commander, acting, in 2003.

He has served as Senior Engineer and Chief of the Logistics Management Division supporting both the Directorate of Maintenance and Directorate of Engineering Services and was selected as the first Chief of the CCAD Corporate Performance Office.

Cook possesses a degree in Industrial Engineering from the University of Houston, an MBA from Texas A&M University-Corpus Christi, and is a 2010 graduate of the United States Army War College with a Masters Degree in Strategic Studies.



William L. Braddy
*Deputy to the
Commander for Production*

Mr. William "Bill" L. Braddy is the Deputy to the Commander for Production. He joined us from the Systems Engineering Group (SEG) of QinetiQ North America (formerly Westar Aerospace and Defense Group) where he served as the Senior Vice President for Business Performance located in Huntsville, AL. His responsibilities included business integration, quality management, strategic planning, program finance, and facilities management. His company earned both ISO 9001-2008 and the Capabilities Maturity Model Integrated (CMMI) Level 3 certifications

while Bill was with them.

Prior to Westar, Bill was the Director of Operations for the Recall Corporation headquartered in Atlanta, GA. His responsibilities included 51 facilities and 500 folks across the United States and Canada. Prior to that, he served as Vice President for Engineering and Product Development with Schneider National in Green Bay, WI. His team specialized in transportation network optimization and data warehouse development. Schneider uses the ten+ terabyte data warehouse for operations, data mining, and business performance management.

Bill completed a 26-year Army career in 1998. His experience includes armor and aviation command from company through brigade. He served as the Division Chief of Staff and Aviation Brigade Commander in the 101st Airborne Division, and on the Joint Staff in the Pentagon. He also served as the Deputy Director, J-7, Joint Forces Readiness Command, in Suffolk, VA. Bill is a graduate of the Industrial College of the Armed Forces in Washington, D.C.



Marcia Bischak
*Deputy to the
Commander for Resource Management*

Originally from San Antonio, TX, Marcie entered civil service in 1980 working for the Air Force Commissary Service, holding numerous positions within the Southwest Regional office. In October 1992, the Department of Defense merged all commissaries into the Defense Commissary Agency. Marcie stayed with DeCA San Antonio until 2002 when she was asked to serve as the DeCA European Budget Officer. Upon returning to San Antonio, Marcie held the position of Resource Business Area Director managing both Human and Financial

Resources for over 10,000 employees throughout the Region.

When presented with a 2006 Base Closure decision, Marcie chose not to relocate to Hopewell, VA, and was selected as the Financial Manager for the Defense Information Systems Agency, Joint Interoperability Test

Command at Fort Huachuca, AZ. Marcie returned home to San Antonio in 2008 as the Internal Control Program Manager for DISA. As the Program Manager, Marcie lead DISA to receive a first place rating from the Office of Secretary of Defense, for its 2009 Annual Statement of Assurance.

Marcie is knowledgeable in all aspect of financial management and audit. She supports the command by providing relevant financial information and guidance to develop innovative solutions to resource problems while increasing accountability and visibility of the depots resources.

Marcie possesses a Degree in Business Administration and a Master of Science Degree in Accountancy from the University of the Incarnate Word, San Antonio. She is currently studying for the Certified Public Accountancy Exam.

Command Staff



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HANGAR 8



UH-60 RECAP LINE



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