



# N-FINAL

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*On the Cover...*

MSgt. Ricky Erwin, 507th  
EAMS armament system  
mechanic, helps load up an  
F-16 with a wingtip missile.

## Editorials

## Colonel's Journal

*We need you in our future*

*By Lt. Col. Roger Barr  
507th CSS Commander*

The time is rapidly approaching for all supervisors in the 507th to dust off the crystal ball and once again predict the budget needs for the future.

Many of you, especially those lower ranking members are probably wondering, "So what has this got to do with me?" The answer is: EVERYTHING.

Budget cuts and manpower reductions are driving the Air Force of the future to become a smaller force, but with better global reach and global power.

The Air Force Reserve and the 507th are no different. In budgeting to meet future challenges, we can and must do a better job. We need to open up the budgeting process to everyone.

From the lowest ranking airman to the commander, we each must determine our training needs and requirements today. We also need to look far down the road and determine where and what we will need five years from now.

***In budgeting for the future, don't expect your supervisor to be a mind reader. Make your requirements known.***

Sit down with him or her and identify your needs. What courses do you and your fellow workers need to stay proficient; what equipment will you need now and five years from now.

Look outside your career field training as well. Do you need budgeting, management or professional training courses? Be realistic, don't "pad" your requests, but don't sell your training requirements short. Finally, help your supervisor justify and document those requirements for submission.

Anything less than this, and when it comes time to fulfill your training program, you'll find there's no money and plenty of frustration.

We need to look at new and innovative methods for maintaining readiness. We must continue to restructure and reduce sustainability requirements. We must look for every opportunity to become more efficient. It's a tall challenge, but

one we can and must meet to stay the very best Air Force in the world.

America deserves this. America also deserves an Air Force that will manage its smaller resources smarter and better so that we will be a world-class producer. The Air Force agrees.

Throughout the 507th, we will increase our attention on productivity and quality. These efforts must and will continue. Our emphasis will be on quality. We're going to encourage you, military and civilian, to put your talents to use. We're going to reduce time required to evaluate suggestions. We're looking to change the way we do business with quality and productivity as our watchwords.

But merely calling for a change in the way we operate is not enough. If we are truly going to change the management culture within the 507th and the Air Force Reserve, we must educate you toward a different vision of management. We must encourage you to look for innovation and creativity. We must create the organizational style which gives you the power to be creative and change things.

Then, we must give you the resources to do your job, the authority and responsibility to get the job done and the latitude to do it in the most efficient, effective manner. There should be a feeling of joint ownership of the process. You also need the recognition and rewards that come from successful implementation of your ideas.

Three characteristics of a world class organization, either public sector or private sector, are a passion for customer satisfaction, obsession with product quality, and a continuing commitment to measurable improvement. And, our unit and the Air Force Reserve must strive to lead the way.

This vision of the Air Force Reserve in the 21st century is exciting; highly capable, responsive, professional and will produce a flexible instrument of national power.

**507th Tactical Fighter Group Editorial Staff**

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# Airman, NCO of Quarter picked

*by SSgt Stan Paregien*

The winner of the Airman of the Quarter is Senior Airman Carl Goforth of the 507th Security Police Flight.

SrA Goforth is described by his supervisor as an outstanding security policeman. He continually strives to excel in his duties and has recently been awarded his 5-level and will test for PME in order to accept supervisory responsibilities.

During the recent ORI, he was invaluable as a security response force member securing the flightline from unauthorized intruders. His technical knowledge and expertise with the M-60 machine gun proved instrumental in negating the aggressor's advances. Also, during the ORI, he was verbally lauded by the inspectors for his job knowledge and rapid response to every scenario. His outstanding contribution and superb attitude throughout the inspection made a good impression indeed.

SrA Goforth is described as an assertive, confident and dedicated

individual who willingly seeks to set an example for his peer group. He volunteered to work eighteen hour shifts during the ORI, displaying the professionalism of someone of higher rank and experience. Part of his civilian time is spent on his fraternity executive counsel.

SrA Goforth is attending Oklahoma State University in pursuit of a bachelor's degree in Corrections and Sociology. He is also enrolled with the Community College of the Air Force working towards a degree in Industrial Security. SrA Goforth's goal is to be an agent with the Federal Bureau of Investigation. He is a recipient of the Reserve Outstanding Unit Award.

The winner of the NCO of the Quarter for 1 April 1991 to 30 June 1991 is Technical Sergeant Rickey Lawrence, also of the 507th Security Police Flight.

TSgt Lawrence has been an example to the unit since transferring from the Marine Corps Reserve in 1985, due to his extensive police and combat knowledge. His supervisor points out that he has consistently strived to

better the flight by sharing experience at every available opportunity. He is also called on for training purposes and special assignments continuously.

TSgt Lawrence is a nationally certified Drug Abuse Resistance Education (DARE) instructor and the DARE coordinator for the Tulsa district. He is the Oklahoma State DARE Public Relations/Membership Coordinator. He further serves as an auxiliary deputy sheriff for Pawnee County, Oklahoma. As a State Probation/Parole Officer, he serves on the Affirmative Action Committee and has been a guest instructor at the Department of Corrections Academy at the University of Oklahoma.

He constantly tries to improve his military and police knowledge. Although he already holds an Associates Degree and a Bachelor's Degree, Sergeant Lawrence is enrolled in the Community College of the Air Force and lacks only three hours to graduate. He has successfully completed Course 6 for promotion to Master Sergeant.

## Enlisted committee solves your problems

The Enlisted Advisory Committee is a standing committee formed to deal with specific items which affect the general morale welfare of enlisted personnel assigned to the 507 Tactical Fighter Group and its subordinate units.

The objective is to detect irritants and items of individual concern in order to prevent them from becoming major unit problems. Troubleshoot items and issues brought to its attention and resolve within the bounds of Air Force regulations. They record for open reading all committee actions and publish formal minutes for posting on all unit bulletin boards.

They submit items of general interest to all command enlisted personnel for consideration within the bounds of Air Force regulations. They also submit items of general interest to all command enlisted personnel for consideration and publication in the group newspaper or training bulletin.

The committee monitors the Airman of the Quarter program and identifies policy changes to put before the ARPC/ANG Council.

Each unit commander appoints one voting primary and one alternate enlisted representative to serve as committee members for a period not to exceed two years. Committee members should be given sufficient time to seek problem and positive areas.

The Group Commander will co-chair the committee with an enlisted co-chairperson elected by committee members from its membership for a period of one year.

The enlisted co-chairperson appoints a secretary and the Group Career Advisor and Senior Enlisted Advisor will be non-voting members.

Committee members work as a liaison body in identifying and solving problems which affect the general morale and welfare of enlisted personnel of the group.

The committee meets monthly or as required.



MSgt. Carvel Davis checks the regulations to ensure quality and efficiency are maintained. (U.S. Air Force photo by SSgt. Stan Paregien)

### Non-Destructive Inspection:

## The "Doctor" is in

by Maj. Donald W. Klanko  
507th Public Affairs

"Like doctors, we're diagnosticians. Our job is prevention," said TSgt. Martha Smith of the 507th Consolidated Aircraft Maintenance Squadron's Non-Destructive Inspection Section.

What Sergeant Smith, the Assistant NCOIC of NDI, and her coworkers are trying to prevent is potentially disastrous in-flight failure of critical aircraft components—the sorts of failures that cause airplanes to crash.

A good preventive starting point for the NDI team is the aircraft's engine oil. Like oil in a car, aircraft engine oil has to be changed regularly as foreign matter builds up in it, causing wear on the parts. But a trained technician can tell a lot from aircraft engine oil through the Spectrometric Oil Analysis Program (SOAP).

The SOAP machinery in the NDI shop can tell a technician which engine parts are wearing out by revealing how many parts per million (PPM) of certain metals the used oil contains.

For example, if a SOAP inspection of an F-16's engine reveals a six PPM content of both iron and nickel, a worker would know by looking at the technical orders, there's nothing to worry about. Four to ten PPM of those metals in combination is normal.

If the SOAP machinery showed 15 PPM of both metals, though, you'd definitely have something to worry about. A quick check of the tech order would reveal that the #4 bearing on the engine's high compressor hub (made of nickel and iron) is rapidly wearing out and must be replaced.

***SOAP isn't a simple program; it requires skill, judgment, and observation to make it work.***

***"Know your engines," TSgt. Smith warned. "Each one has its own personality."***

Using the same example, one engine's oil might consistently show nine PPM of iron and nickel under SOAP inspection, while another will show only four PPM of those metals. As long as the SOAP readings are consistent, there's probably nothing wrong with either engine.

A sudden increase in the latter engine's PPM count of those metals from four to eight, while both permissible according to the T.O. and lower than the first engine, will raise a red warning flag to the observant maintenance technician.

SOAP inspections don't wait for an "oil change." They're conducted after each flight of single-engine aircraft like the F-16.

Complex and important as it may be, SOAP inspection forms only a small part of the NDI shop's workload. Ultrasonic machinery is used to inspect jet engine blades, disks, and other ferrous metal parts. Should a repairable surface crack be found in such a part, it's sent to the welding shop for repair, and then returns to the NDI shop for a follow-up inspection before being installed on an engine. Ultrasonic machinery is also

used to find internal cracks in both metal and composite airframe components, often while these are still on the aircraft.

An eddy current machine sends an electromagnetic current in a circular path through a part to reveal cracks. And like the ultrasonic machine, it can be used on parts remaining on the airframe.

"It checks bolt holes, too," Sergeant Smith added. The shop also possesses x-ray equipment that can check lamination integrity in wings, fuselages, stabilizers, and other control surfaces.

***Like old-fashioned doctors, the NDI teams still make house calls.***

There are times when "on aircraft" component inspection is impractical or inappropriate. Then partial or complete component dismantling or "teardown" is necessary. Ferrous metal parts taken off the aircraft can be inspected for surface cracks with the Magna Tech magnetic particle inspection machine, which reveals such cracks under black light.

Nonferrous metals are also inspected under black light using a fluorescent penetrant fluid to show any surface cracks. Both x-ray and ultrasonic equipment are used to detect internal

cracks or voids in components taken off the aircraft.

This extensive array of equipment has worked very well during training and routine maintenance activities here at Tinker AFB. The strain on the aircraft of deployment to a distant forward operating location followed by combat sorties, rapid turnarounds, and more combat sorties would make the NDI shop's services even more essential to mission success. Will that capability be there, when and where it will be needed most? TSgt. Smith assured it would be.

She said the NDI shop has long had the ability to deploy along with the unit to carry out their jobs. But that capability is improving all the time. Last year the NDI bought a new, highly-portable SOAP machine and are updating the shop's other equipment for rapid deployments.

***"We can go anywhere, anywhere." - TSgt. Martha Smith***

At a time when "Global Reach, Global Power," and "force projection" seem to be the favored phrases of professional war planners, TSgt. Martha Smith simply states, "We can go anywhere, anytime."



SSgt. Robert Porter runs a test using the interlocked gas control system and wavelength drive. (U.S. Air Force photo by SSgt. Stan Paregien)

# F-16 dart training gets to the point



SrA John Wylie and SSgt. Danny Fischer of the 507th munitions section bolt together another dart to be used for target practice. (U.S. Air Force photo by MSgt. Sharlotte Epps)

by MSgt. Sharlotte Epps  
507th Career Advisor

When you think about darts, you get the image of a quaint English pub and a couple of locals out for an evening of fun.

From May 12-25, 76 members of the 507th Tactical Fighter Group deployed to Homestead AFB, Florida for their own version of "darts".

These darts, however, which weigh in between 70 to 80 pounds and 16 feet long, were not exactly the type you'd want to toss at a gameboard. But they did prove to be ideal targets for 507th F-16 pilots when towed behind an F-86 support aircraft.



"It was a lot like putting together a model airplane." Here the munitions team balances a dart prior to it's "flight". (U.S. Air Force photo by MSgt. Sharlotte Epps)

"The purpose of our deployment was to provide our pilots with dart target practice according to a tasking message," said Maj. "Psycho" Comtois, project officer for the deployment.

Major Comtois explained that the darts were towed on a long cable behind the support aircraft over the ocean. The 21 deployed 507th pilots would give pursuit, receiving a realistic training opportunity to shoot at a moving target.

More than 50 support personnel also deployed to support the five aircraft deployed. Among them were 507th munitions specialists who had the additional task of building the darts.

"The darts were made mostly of styrofoam," said MSgt. Chuck Amato of the 507th CAMS munitions section. "We would take them out of their cases and bolt them together." Sergeant Amato said his team constructed a total of 18 darts while deployed.

"Towards the end we were able to build a dart in about 22 minutes. It was a lot like building a model airplane," said SSgt. James Sis of munitions. In addition to building the darts, the team also would tie the tow cables that were attached to the F-86 support aircraft, a process that involved approximately two days.

Once the mission was complete, Sergeant Amato said the dart would be ejected by the support aircraft to be recovered later.

"We did have two of the darts shot off a supposedly bullet-proof cable," Sergeant Sis said.

"The 93rd Tactical Fighter Squadron from the 482nd Tactical Fighter Group at Homestead gave us outstanding support throughout the deployment," Major Comtois said.

# Family/ Mission Day planned next month

by SSgt. Stan Paregien

The 1991 507th Tactical Fighter Group Family/Mission Day will take place on Saturday, September 14 starting at 7:30 a.m.

"This special day to honor family and friends has been successful in the past and this year should be even better," said CMSgt. Lee Adams, 507th TFG senior enlisted advisor.

The day will begin with a fun run (if you consider running 1.5 miles fun) in the morning that can be used to count for Air Force Reserve member's annual fitness run qualification.

"Be sure to bring comfortable gym clothes to jog in," said the chief.

"This will be a great time for our 507th members to show Reserve activities to their family and friends. It is called family day, but it is really a family and friend day. If you and your boss are friends, bring him or her along too," said Chief Adams.

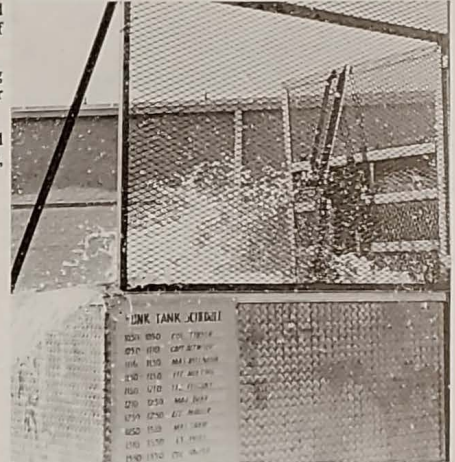
An F-16 static display and assorted unit displays including military weapons and an ejection seat will be available for family members to inspect.

Planned sporting activities include softball, volleyball, and horseshoes. Because of lack of gloves on past fun days,

softball has not always been played. Please bring any extra gloves that you can spare for the games.

Unit rivalry is already heating up, so get your equipment ready, form a team or two, and have fun competing with your fellow Reservists. If everyone brings enough gloves for softball, there will probably be several games going on at the same time and a playoff will determine the overall champions. The same process will be used in volleyball. It will be an exciting day in sports history!

Special events are planned for your children so be sure and bring them along. Activities like face painting, a cakewalk and basketball toss will keep all the kids busy so the whole family has something to do. If you would like to help at the children's booths, talk to Chief Adams and see what you can do to be part of the fun times too.



Nominate your supervisor or commander now for his or her turn in the dunk tank. (U. S. Air Force photo)

Do you have frustrations you want to get off your chest? Have you ever dreamed of being a super pitcher like Nolan Ryan? Then try your skill at throwing a strike with the Dunk Tank machine.

All dunk tank participants will be nominated by their peers (will Colonel Lytle be first?), and nominators will be able to take turns throwing the ball at the special target. Past participants say it is a "cool" experience they remember fondly.

Lunch tickets are still on sale around the unit. Check with your supervisor and get as many as you need for family and friends. Other refreshments will be available throughout the day. There will also be special T-shirts on sale with all the money earned going back to the unit.



# Reserve news you can use

## Blood drive planned

507th Executive Officer, Mr. Dave Mugg, is asking unit members to "roll up their sleeves" this month during the unit's scheduled blood drive.

Mr. Mugg, the blood drive coordinator, said a bloodmobile from the Oklahoma Blood Institute will be located at building 1030 Saturday, August 3, from 8:20 a.m. to 1 p.m.

"Our blood drive is set just before the Labor Day weekend. This is a time of high accident potential and of high blood usage. Please come out, participate, and know that your sharing could save someone's life," he said.

## Safety officials keeping a close watch

Unit safety officials are keeping a close watch on 507th reservists this summer.

MSgt. Cody Smith, 507th Safety office, stated members shouldn't let the heat of summer, or the moment, affect decisions when it comes to safety.

Sergeant Smith advises members to:

Watch your ATTITUDE, if upset or angry...count 10 before taking action.

KNOW what you're doing...get facts...learn skills...respect dangers so that your own JUDGEMENT will be more sound and you can set a good EXAMPLE for others!

"It's worth your while to bother about SAFETY...because safety prone people get more done and have more fun," he said.

## Child care help offered for "Desert" participants

Congress has appropriated \$20 million to DOD for child care support for dependent children of active duty and reserve personnel who participated in Desert Storm.

This money has been allocated to MAJCOMs for reallocation to their installations. Installation child development programs and certified on

base family day care providers may be reimbursed for providing free or discounted child care services to active duty and reserve members during deployment, during the conflict, during reunion activities, and during resettling.

Parents may be compensated for previously incurred child care expenses in support of Desert Shield/Desert Storm above and beyond those usually incurred by providing them with coupons or vouchers for free child care for future use in either the on base child development center, youth center or on base certified family day care homes.

Installations have been encouraged to find ways to provide free child care to reserve forces who participated in Persian gulf conflict activities by making it known that they are eligible to participate in free child care offerings.



MSgt. Benny Reeves and Majors "Psycho" Comtois and Jerry Irwin sign autographs during last month's 89er's baseball game. (Photo courtesy of the 89ers)

## Bank machines to give TDY cash advances

Some Air Force travelers will soon be able to use government-issued charge cards at automated teller machines to get temporary-duty travel advances, Air Force finance officials said.

Previously, the Air Force has been issuing Diner's Club cards to all master through chief master sergeants, officers and civilians GS-9 and above to charge meals and room expenses while TDY.

Currently being studied is a withdrawal system that will provide travelers with a way to pull advance payments on their expenses. The Air Force moved to the credit card system as a method to avoid handling and maintaining large sums of money at military finance centers.

## Student loan rates drop

Interest rates on certain college education loans from the Air Force Aid Society have dropped more than 2 percent for the academic period July 1 through June 30, 1992, AFAS officials said.

The interest rate on the Society's parent loan, or Plus, dropped from 11.49 percent to 9.34 percent, the lowest rates since the loans were first offered in 1983.

## Members promoted

The following members have been promoted recently. Congratulations to these members.

Promoted to A1C is John Day.

Promoted to SrA are:

Sandra Deffler, Marcus Dixon, Kevin Easterling, Sherri Frair, John Hankins, Barbara Hill, Pamela Nelson, Jonathan Odum, Brenda Pearce, Alan Rehrig, Jami Stroud, and Ernest Washburn.

Promoted to SSgt. are:

Jeffrey Alexander, Gerald Bowland, John Carey, Edward Graham, Ricardo Guevara, Debra Hall, Cecilia Hood, Julie Ingarra, Mary Junk, Rene Martinez, Natasha Nelson, Annetta Serviss, and Michael Vaughn.

Promoted to TSgt. are:

Gary Burkhart, Lori Cranford, Patrick Holloway, John Kunhart, Christopher McCormick, and Catherine Robinson.