

for efficient tactical air power

TAC ATTACK

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Tactical Air Command

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Articles, accident briefs, and associated material in this magazine are non-directive in nature. All suggestions and recommendations are intended to remain within the scope of existing directives. Information used to brief accidents and incidents does not identify the persons, places, or units involved and may not be construed as incriminating under Article 31 of the Uniform Code of Military Justice. Names, dates, and places used in conjunction with accident stories are fictilious. Air Force units are encouraged to republish the material contained herein; however, contents are not for public release. Written permission must be obtained from HQ TAC before material may be republished by other than Department of Defense organizations.

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Angle of ATTACK LOOKING AHEAD

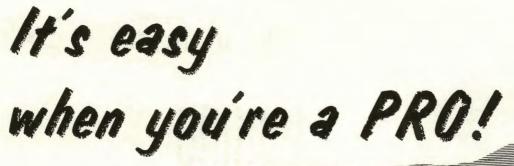
The Thanksgiving turkey is no more than an unwanted bulge at the waistline and Christmas shopping now plagues the nerves and bank account. Following Christmas joy comes the time for New Year's cheer and New Year's resolutions, and time for a quick check at 6 o'clock before setting our sights on future targets.

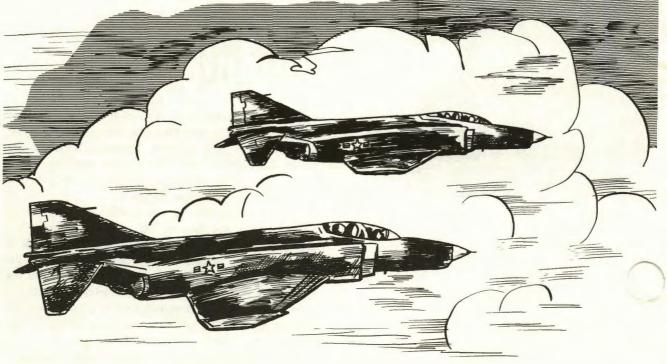
The 1971 final score isn't complete, but we are well on our way to a new low in TAC aircraft accidents. The savings in TAC assets should be a warm source of pride to everyone. The success of your efforts points out the obvious answer for the future. And so do the failures. We had enough bonehead accidents and incidents in 1971 to provide the foundation and incentive for a fine preventive program in 1972. There's no special magic about it, just plenty of hard work and constant alertness.

TAC's face will change in 1972 – hasn't it always – but even faster now. Our aircrew experience level will drop and opportunities for leadership will increase. Funds for needed projects grow less and less, while the need for astute management grows more and more Conservation of resources ceases being a platitude and becomes a hard necessity. There just isn't any other way. That's looking ahead.

But for now, to Blue Four and all his bosses, and to all their families and friends, Fleagle and the TAC Safety staff send warm wishes for a blessed and safe holiday season. Merry Christmas and a Happy New Year!!

GERALD J. BEISNER, Colonel, USAF Chief of Safety





By: Capt Al Manweiler 67 TRW, Stan/Eval Division Bergstrom AFB, Texas

and signals... We all use them at one time or another to "talk" to a wingman or a crew chief. Most of us know enough to get our point across. And, of course, there's always the UHF.

But what about emergency signals? You know, the ones you use when your radio quits and everything else is going to hell.

Air Force Manual 60-15 lists normal formation and emergency distress signals and all jocks ought to be familiar with them. But, if you're like me and don't like to memorize much more than your name and social security number, maybe an inflight crutch would help.

Ask your friendly Stan/Eval troops about incorporating formation and emergency signals into your local aircrew checklist. You never know when they'll come in handy.

Here's a short story I hope will get my point across. Fill in the blanks as you read it and see how well you know your signals.

It was late in the afternoon and the weather was field grade. Colonel Smiling Jack had just finished a rigorous low level (at 3000') and he was skyhooking his way home in his trusty Phantom. While scanning the horizon for bandits (an old habit from Korea), his eyes suddenly narrowed as he spotted another F-4 which had cleverly snuck into tight formation on his right wing.

Regaining his composure, Jack saw the other jock frantically wave his hand back and forth in front of his face and left ear. Puzzled, the colonel called to his navigator, "Harry, what the hell's wrong with that g Startled, Harry dropped his crossword puzzle and ed the other aircraft. "Jeez, Colonel, I think he's got lems with his (1) ."

- 1. a. Muscle Control
 - b. Helmet
 - c. Radio
 - d. Navigator

When Jack looked over at the other pilot again, he saw the guy put his clenched fist to the top of the canopy, then raise five fingers.

"What's that, Harry, the new peace symbol?"

"No, Colonel. He's using the (2) ______ system to tell you he's got problems with his (3) ______."

- 2. a. EFTO
 - b. HEFOE
 - c. NOGOE
 - d. DUMBO
- 3. a. Engine
 - b. Navigator
 - c. Hydraulics
 - d. Electrics

h, is that all!"

The colonel looked over at the other bird. Now the pilot had his hand at the top of the canopy, palm down, fingers extended, and he was moving it forward and down, like a roller coaster.

"Look at that, Harry! His face is purple and his eyes are bugged out. I guess he's got trouble with his G-suit."

"No, no, Colonel. He wants to (4) _____ because he's got (5) problems."

- 4. a. Eject
 - b. Split-S
 - c. Descend
 - d. Dump fuel
- 5. a. Navigator
 - b. Oxygen
 - c. Bladder
 - d. INS

"No kidding? How'd you know that?"

"It's all there in your Aircrew Aid, Colonel. Why don't you look it up for yourself."

"I ... I forgot mine," said Jack sheepishly.

After taking the appropriate action, Jack checked the pilot again. His color looked normal and his eyes pack in place, so Jack relaxed a bit. A few minutes later the colonel noticed the other jock pat his left shoulder with his right hand and hold up two fingers.

"Hey, Harry," said Jack, "now he wants to fly some wing acro."

"Come on, Colonel," said Harry disgustedly. "He's trying to tell you that he wants to (6) _______at an airspeed of (7) ______ knots."

- 6. a. Eject his navigator
 - b. Land on your wing
 - c. Jettison his tanks
 - d. Lower his gear
- 7. a. 130
 - b. 140
 - c. 150
 - d. 160



It's easy when you're a PRO!

"Just kidding, Harry," said the colonel, knowingly. "Well, in that case I'd better find out how much (8) he's got."

- 8. a. Guts
 - b. Oxygen
 - c. Time
 - d. Fuel

Jack fumbled around for a few minutes, then finally said, "Say, ahhh, Harry, how about passing your Aircrew Aid up here?"

"Forget it, Colonel. I'll find out."

Harry raised his left hand, fist closed with thumb extended and performed a drinking motion with his thumb touching his oxygen mask.

The other jock held up two fingers horizontally, closed his fist, then one finger vertically.

Jack said, "Boy, he's hurtin'! We're 150 miles from home, it's getting dark and he's only got 2100 pounds left. We'd better get him on the ground!"

(9) Colonel, relax! He's got

9. a. 1,200 b. 21,000 c. 7,100 d. 17,000

There was a pained silence in the front cockpit as the colonel turned toward home.

It was dark by the time they arrived back in the local area and the colonel decided he might as well log a little night time. So he throttled back and began making lazy turns around the area.

All of a sudden the other pilot began making circles on his canopy with his flashlight.

"He's blinding me with that flashlight, Harry. How do I get him to turn it off?"

"You can (10) , Colonel."

- 10. a. Punch out
 - b. Close your eyes
 - c. Land
 - d. Put your visor down

"Oh, sure," said Jack. As he turned toward the bar he called approach control and informed them of situation and his intentions.

At 15 miles on final Jack confidently announced, "I'll just drop my tailhook now to tell him we're about to lower gear and flaps."

"Arrrgh!" groaned Harry. "Look, pull up the hook and turn your (11) to (12). Then switch to (13) and lower the gear and flaps. Got that?!!"

11. a. Formation lights

- b. Anti-collision lights
- c. Position lights
- d. Flashlight
- 12. a. Dim/steady
 - b. Bright/steady
 - c. Bright/flash
 - d. Off
- 13. a. Dim/steady
 - b. Bright/steady
 - c. Bright/flash
 - d. On

"Sure, Harry ... Thanks."

Gear and flaps were lowered and the approach begun. Halfway down final, the wingman dropped back about a ship length. When he pulled into position again, his landing light was flashing on and off.

"I guess there's a short in his landing light," said the colonel, tentatively.

"There's a short, all right," thought Harry, "but not in the other airplane." (Harry knew that the other jock was signaling that he wanted to make a (14)_____. (Local Procedure)

- 14. a. Low-approach
 - b. No flap approach
 - c. Barrier engagement
 - d. Bail out

"OL' Smiling Jack is sure going to be surprised when he turns off the runway alone," mused Harry.

The landing was completed safely and, sure enough, Jack began looking around furtively. "Harry, what happened to our wingman," he asked perplexedly, "and whaddaya make of all those flashing red lights back there around the barrier?"

Harry switched to cold mike so the colonel would hear him laughing.

As Jack taxied back to the ramp he said humbly, ry, I sure do want to thank you for all your help. I'd a made a real mess of it without you."

"Without my handy Aircrew Aid is what you mean, Colonel. Next time please remember to bring yours!"

As Jack pulled into the chocks and shut down, a staff car came screaming up.

"Great job, Jack!" shouted the Wing Commander. "I'll remember this in your next E.R."

"It was nothing, Sir," Jack called back. "It's easy when you're a pro!"

ANSWERS

1. C 2. B

3. A

4. C 5. B

6. B 7. C 8. D

9. C 10. C

11. C

12. B

13. A 14. C

CHOCK TALK ... incidents and incidentals

IT'LL GIVE YOU THE JITTERS

Everything was normal until the flaps were retracted after takeoff in the VT-29B. At that time the flight controls began to vibrate violently. Airspeed rose slowly; power adjustments had no effect on the vibration. A quick check of the engine instruments said everything was OK in that department. The pilot sent the flight engineer aft to see if he could find out what was causing all the shaking. Meanwhile, the pilot declared an emergency and began a turn to downwind for an immediate landing. As the aircraft rolled out on downwind the engineer returned to the cockpit and informed the pilot that the ailerons were fluttering rapidly. By using min safe airspeeds the pilot completed the landing without further difficulty. During taxi back the trim tab on the right aileron was noted hanging free and flapping in the breeze. Total flight time was ten minutes.

A close look at the trim tab actuator showed that a bolt and castellated nut that holds the whole thing together were lying in the bottom of the aileron. The cotter key was missing.

The hole in the end of the bolt, which is reserved for the cotter key, was filled with dirt and grease, indicating the key had not been installed or had been out for an extended period.

No maintenance had been accomplished in this area since the aircraft had returned from IRAN.

It's interesting to note that during this particular IRAN one of the inspection items was to remove moveable control surfaces and inspect, clean, perform corrosion control treatment, and repair as necessary.

One must assume that an additional requirement is to put it all back together ... correctly.

PLUGGED POWER

The C-130 required an engine run after a prop change on number one. During the max power run for all engines, the operator noted that number three was low on power. After the run was completed number three was inspected to determine the reason for low power. An INTAKE

PLUG was found jammed against the inlet guide vanes. Damage was caused by a safety streamer and attached hardware.

This one happened in another command; let's profit from their mistakes

A-7 OIL

This A-7 pilot observed his master caution and engine oil lights illuminate while on a low level mission. He declared an emergency and IAW appropriate flight manual procedures made a safe recovery. Post flight maintenance troubleshooting revealed an oil leak at a connection that had evidently been improperly torqued. It should be emphasized that it is doubly important to torque proper for several reasons. First of all, the A-7 oil quai indicating system is deactivated in many A-7s because problems with the instrument. New ones are under development but are not operational. Secondly, the A-7 only has 1.45 usable gallons of oil, so a very small leak can quickly deplete the oil supply. Let's do it right the first time. Otherwise, the next incident may not turn out as favorably.

A SNAGGLETOOTH SABRE

Adjust the rudders and blow the canopy? Seems like this unlikely combination is possible. One F-100 pilot ground checked the above combination and found it works.

Here's how, It seems that there is a round head rivet on the bellcrank assembly cockpit enclosure ejection initiator (a mouth full) that can be snagged by the rudder adjustment tension spring causing the bellcrank to move forward enough to fire the initiator.

This outfit found that one-third of their aircraft had round head rivets in the bellcrank, while the other two-thirds had flat head rivets. They also found that one-third of the aircraft with round head rivets showed signs of rubbing. Seems like the ole Super Sabre still has few tricks up its sleeve.

with a maintenance slant.

SAME OLD STORY

How many times have you seen a catchy title for incidents such as, "Loose Screw" or "Loose Nut" or something of that nature. Usually they are lead-ins to a tale of a nut or bolt being found in a place where it isn't supposed to be. We all shake our heads and murmur, "What a shame!" or "That's inexcusable." Hardly a day passes, however, without something of this nature happening. Here are two that occurred within an hour and ten minutes of each other.

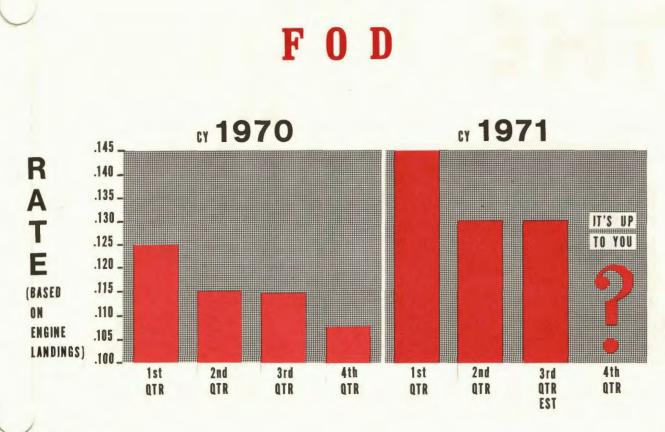
The first case was an F-4 that had an engine vibration. A bolt or screw of undetermined origin went through the engine. The second case was another F-4 that had a nut wedged between the nozzle actuator pump input lever and the engine casing, resulting in a nozzle stuck full open.

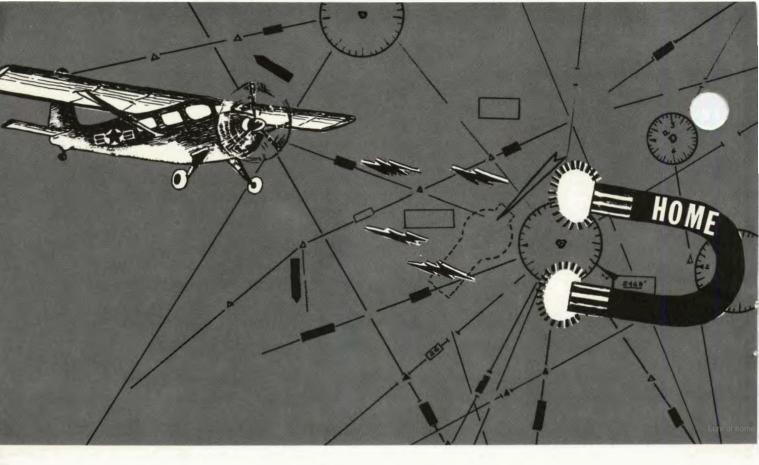
The results are obvious. The cause is well known. F O D !!

The chart below shows our (TAC) FOD performance during the first three quarters of this year as compared to last year. Reduced to a word our performance this year has been lousy.

When all the statistics are in for the third quarter it will show that we have already surpassed last year's record in numbers of FOD incidents.

Gents, let's turn this trend around in the fourth quarter. It's up to you.





THE LURE OF HOME

The accident report read, "Primary Cause: Operator factor; the pilot continued to fly in icing conditions which resulted in loss of power and aircraft control. Contributing Cause: Operator factor; the pilot disregarded the Flight Manual, filed and flew into forecast icing conditions."

Why?

What were the underlying drives that prompted

the pilot to defy common sense, the Flight Manual, and his aircraft's capabilities?

The absolute truth may never be known. The men who could tell us, the pilot, co-pilot, and passenger died in the crash. But we can look back through the mission history and find some answers.

The mission was briefed as a cross country proficiencyflight for the pilot and co-pilot.

During the briefing the ops officer went over the osed routing and checked the long range weather ast. At the time of the briefing it appeared that the out would be in advance of a weather front and the trip back, four days later, would be behind the front. The ops officer briefed the two pilots not to fly in actual instrument conditions.

The trip out went pretty much as planned.

Four days later, on the trip back, it was a different story. The weather didn't live up to the long range forecast, as is its inconsistent fashion, and as a result the pilot had to change the routing.

While enroute to the first stop, the weather forced the crew into an unplanned enroute stop where they refueled and refiled. The second leg of the trip was completed routinely. After reaching the second stopover point the pilots checked the weather for the final leg; again the weather had turned sour so they decided to RON.

The next day the pilots checked the weather for the return trip home and again it was lousy. Another RON was necessary. The co-pilot called the squadron ops officer on the hom and informed him of the decision. He concurred and advised the co-pilot to check the weather the next day and give him a call before leaping off.

That night the pilot made a long distance call to his wife. The following day was to be their tenth month



anniversary and they were anxious to be The wife offered to drive the distance separating two bases so they could be together but he told her

that the weather was improving and that he would be home the next day.

The pillots flight planned for 6000 feet for the trip home. During the weather briefing the weather man forecast light rime icing between 3000 and 10,000 feet. Minimum freezing level was 3000 feet. The pilot filed his flight plan ignoring the flight manual warning which states, "Do NOT fly the aircraft into known or forecast icing conditions." He did not telephone the squadron ops officer as he had been instructed.

At the aircraft the co-pilot was completing the preflight and the pilot was putting the bags in the aircraft when a transient alert sergeant came out to assist. He asked the pilot if he didn't want to stay instead of flying in this weather. The pilot responded that he preferred not to fly but he had to get back home.

Shortiy after takeoff, while climbing to 6000 feet the aircraft started to ice up. Rather than return to the departure point the pilot requested 3000 feet and pressed on. Nine minutes later the pilot requested the lowest altitude available and was advised by center that he was "at it."

Ground witnesses reported hearing the airplane passing head (still in the clouds) with the engine acting up, probably indicating that the carburetor had iced up.

The combination of a severely distorted airfoil, increased weight, and an impaired engine, all due to icing, probably forced a descent. Ground witnesses observed the aircraft banking and yawing erratically with the engine running rough.

The aircraft had exited the clouds at about 500 feet AGL but the pilot had extremely limited forward visibility due to windscreen ice. The erratic maneuvering was probably an attempt, on the pilots part, to gain side visibility in an effort to find a forced landing site.

The ground witnesses then observed the aircraft to nose up abruptly then pitch down sharply, diving into the ground . . . it stalled.

The Dash One for this airplane states that with the control wheel held full aft there is no stall or loss of control such as is normally associated with an aircraft in a stalled condition. Following that statement is a warning: "With slats inoperative the aircraft may stall abruptly followed by a strong nose down pitching moment."

In all probability the slats were rendered inoperative because of structural ice.

If the pilot had turned around when he reported picking up ice he probably would have been able to make a safe landing at the departure base.

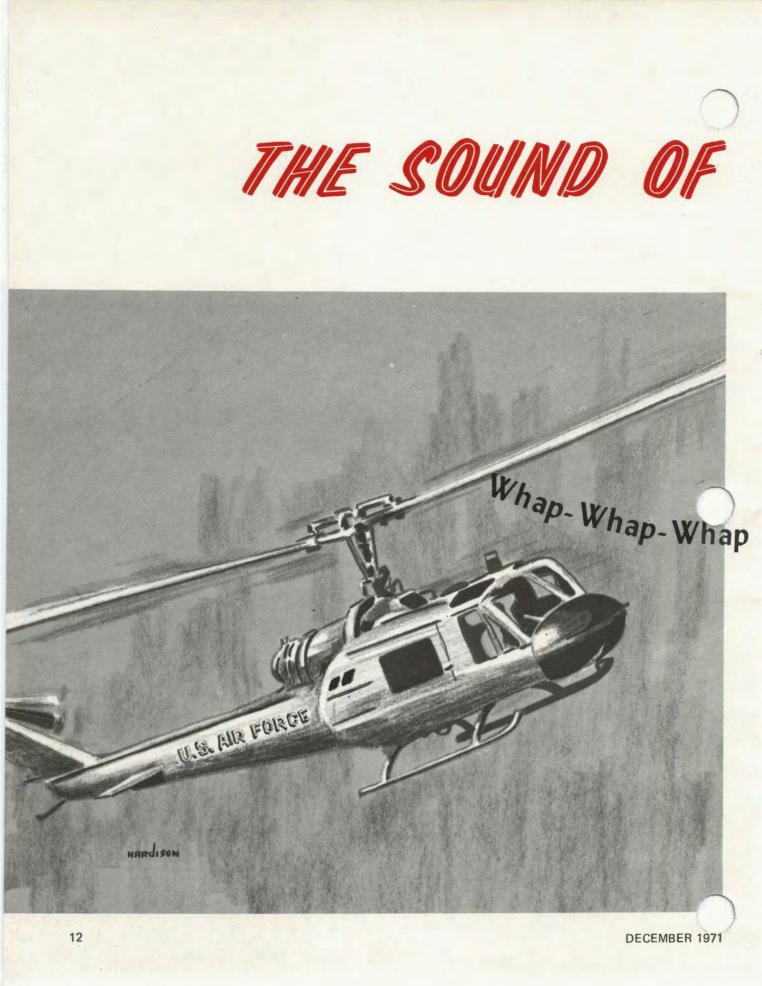
If he had not disregarded the flight manual and taken off into forecast icing conditions he would not have encountered the difficulties.

The pilot let the lure of the home fires enter his judgment to a commanding degree. He wanted to get home

The situation is not without parallel. Dropping back a couple of thousand years into the imagination of Homer we find a well known figure, Ulysses, pursuing a similar goal. After the battle of Troy, Ulysses, in following the urge to return home, had to endure a hurricane, overcome the lethargic well-being offered by the Lotus-eaters, battle Polyphemus (the one-eyed Cyclops giant), flee a cannibal race of island dwellers, escape the embrace of Circe (belatedly), ignore the mind boggling song of the Sirens, battle the monsters Charybdis and Scylla, endure the eight-year affections of the nymph Calypso, and upon return to Ithaca he had to wipe out a score or so of his wife's suitors. Old Ulysses had the urge.

Ulysses' adventure is mythology but the urge to return home is not. It is a very real thing, something we all have. That's fine as long as we let it take its proper position. When we don't; when it reaches the forefront of those things that influence judgment, we place our lives and those of others in jeopardy.

Get-home-itis has no function in the decision making process when the decision involves the airplane and the mission.





your bird, heading for his parking space, throttle down if possible. In any event, hold back on any burst of power until he is well clear of your blast area. He will avoid flying close to you when possible. As stated, his "rotor wash" is pretty tough on control surfaces and is also one of the better FOD scatterers around.



PASSENGERS... Not to belabor the obvious, but the tail rotor on this bird is dangerous. To preclude any sorrowful events, approach and depart the machine in view of the flight crew. (Forty-five degrees either side of the front of the helicopter.) The Huey rotor blades can droop to within five feet of the ground during starting and shut-down operations. So unless you happen to be about 4'10" tall, it is advisable to wait for an "All Clear" from the flight crew prior to walking under the blades. The crew will give you a passenger briefing prior to flight, however, a few pointers for the unfamiliar:

There is no emergency alarm system installed in the cabin area, therefore, one cabin occupant should be on intercom at all times in flight to relay any instructions from the pilot.

<u>Never</u> leave the helicopter until cleared by a flight crewmember. This applies for normal operations, forced landings, and even ditching. (It is amazing how many persons have been struck by a rotor blade while swimming away from a ditched "chopper.")

Keep your seat belt fastened at all times in flight.



SUPERVISORS... The helicopter is a marvelous machine; but it does have its limitations. Wind, temperature, altitude, and gross weight all have an effect on performance. Your helicopter pilots know and understand these limitations. The flight procedures used by them have been developed over many years of USAF helicopter operations. On occasion the risk factor in a particular mission may not be apparent. This is particularly true in high altitude and confined area operations. To alleviate the risk, the pilot may request an alternate landing site, smaller payload, or delay for more favorable weather conditions. Supervisors should consider the judgment of their helicopter crews prior to committing them to an operation that may be marginally safe.

Remember, whap - whap - whap - whap . . .

by Lt Col Roger Scott Hg TAC (DOVL)

-Whap-Whap-Whap !!!

Lawnmower? Piledriver? Steamroller? Haymaker?....Guess Again! That gentle slapping of the morning air is the new sound of <u>progress</u> at many of our TAC bases. Several bases have recently been assigned UH-1 (Huey) Helicopters for range and mission support operations. Other bases will soon have the Hueys there (assigned to MAC/AARS) as primary rescue aircraft. Therefore, it behooves all of us to become familiar with some of the idiosyncrasies of these "frustrated palm trees." By following a few basic rules and precautions when operating in the vicinity of Hueys, you will find they are a welcome addition to the local "fleet."



PILOTS... Follow the "good neighbor policy," that is: STAY AWAY! The Huey not only throws out a strong blast of wake turbulence, but is susceptible to prop/jet blast during ground operations. Since it doesn't have 'rels, all "taxi" operations are performed in the flight . Needless to say — if one is tooling along behind

TAC ATTACK

Aircrewmen of Distinction





Capt Norsworthy

1st Lt Roberts-

Lie

Captain Morris E. Norsworthy and First Lieutenant Ronald J. Roberts of the 4535th Combat Crew Training Squadron, George Air Force Base, California, have been selected as Tactical Air Command Aircrewmen of Distinction.

Captain Norsworthy (Instructor Pilot) and Lieutenant Roberts (Combat Aircrew Trainee) had completed a night ground attack training mission in an F-4C. The mission had gone as planned and the final approach for landing was normal. Upon touchdown the aircraft immediately swerved hard right. Lieutenant Roberts applied full left rudder and aileron in an attempt to keep the aircraft on the runway but the right drift continued. He then engaged nose wheel steering turned off the anti-skid, and lowered the tail hook. Captain Norsworthy confirmed the procedures, backed up the nose wheel steering and anti-skid disengagement, and applied left brake pressure from the rear cockpit. The right drift was stopped; however, the aircraft continued to skid down the runway in a left crab. Sparks which had issued from the right wheel immediately after touchdown had progressed to an intense fire. By judicious use of nose wheel steering and left brake in a combined effort Captain Norsworthy and Lieutenant Roberts were able to bring the aircraft to a stop on the runway. Both crewmembers quickly egressed over the nose of the aircraft and the flames were extinguished by the fire department. Later examination of the skid marks showed that the right main strut had come within two feet of the right edge of the runway.

Unknown to the pilots the main gear from the strut fork down had fallen from the aircraft on takeoff. No cockpit indications of this situation were available to the crew. Their excellent knowledge and application of the correct emergency procedures kept the aircraft under control and on the runway.

The professional competence displayed by Captain Norsworthy and Lieutenant Roberts during this critical emergency qualifies them as Tactical Air Command Aircrewmen of Distinction.

DECEMBER 1971

Maintenance Man of the Month

Master Sergeant William F. Martin, 834 Field Maintenance Squadron, Hurlburt Field, Florida, has been selected to receive the TAC Maintenance Man Safety Award. Sergeant Martin will receive a letter of appreciation from the Commander of Tactical Air Command and a Certificate.



TACTICAL AIR COMMAND

Crew Chief of the Month

Staff Sergeant Richard K. Kramer, 27 Tactical Fighter Wing, Cannon Air Force Base, New Mexico, has been selected to receive the TAC Crew Chief Safety Award. Sergeant Kramer will receive a letter of appreciation from the Commander of Tactical Air Command and a Certificate.

AIR COM



TAC ATTACK

The month of December 1971 may prove to be a hallmark month for TAC ATTACK. Admittedly we have been remiss in not bringing to light Fleagle's background and lineage. This month we'll rectify that oversight.

Fleagle was born on Pea Island, North Carolina, the elder son of a Ruddy Duck and a Common Loon. Scoffers were quick to point out that the product of such a union was doomed to a life of mediocrity, however, he soon proved them to be wrong.

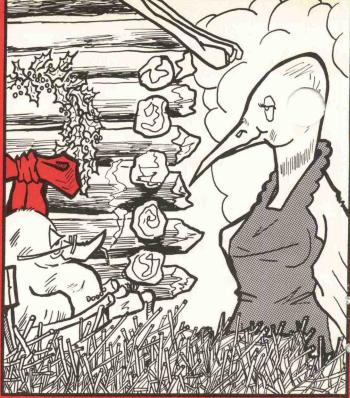
Fleagle won his wings at an early age. During his first flight he traveled a distance of fifty feet...straight down ... as he was attempting to explain the "Labs Maneuver" to his father. He was quick to learn, however, the next time he only fell forty feet... a ten-foot advance in knowledge.

Fleagle's childhood was punctuated by similar advances in knowledge. This unique educational process continued throughout his life bringing us the Fleagle we know today... hardly mediocre.

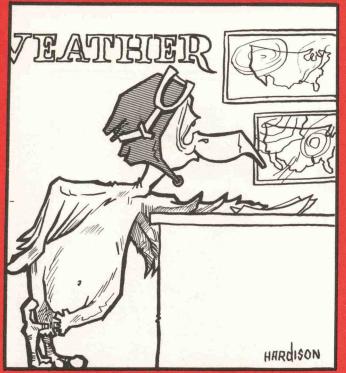
This year Fleagle, and his younger brother, have given in to the pleadings of their mother and are returning home for Christmas.

TAC ATTACK presents ...

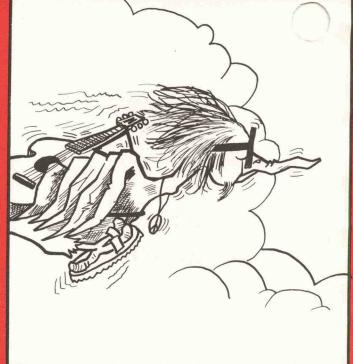
FLEAGLE'S HOMECOMING



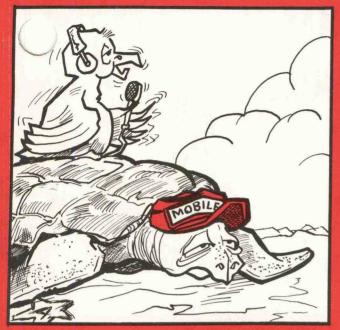
2. Settle down Mama, we've got time for one more drink before the boys get here.



1. Hmmm-WOXOF at Pea Island ? No sweat...gotta get home for Christmas !



3. Man that campus gig was getting me uptight. A few days in cheersville with the senior citizens will put me right



4. Aw Rodger, Fleagle, This is Pea Island Mobile, You're cleared to land behind departing Condor, caution wake turbulence.



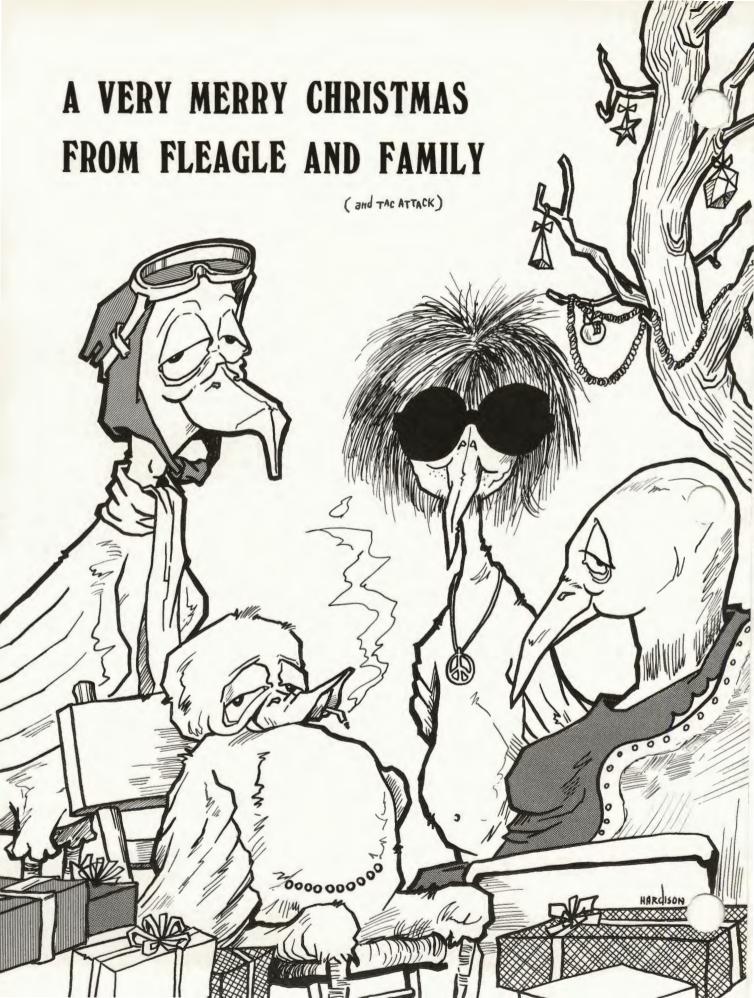
6. Fleagle....My Baby !



5. OOPS - Porpoised again !



7. Papa... it looks like our other son has arrived.





CONTROLEX PUSH-PULL ASSEMBLIES

In keeping with the philosophy that TAC ATTACK offers something for everybody, this article is principally for the benefit of those who maintain and fly the newest addition to the TAC fighter fleet . . . the A-7.

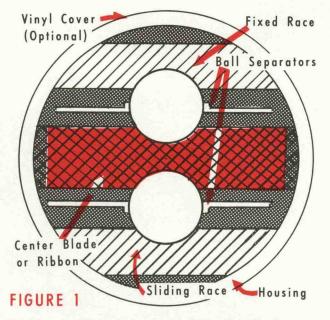
Several recent discrepancies of A-7 throttle stiffness have been reported which should be of specific interest to all A-7 mechanics. In many cases the throttle stiffness results from improper handling of the Controlex push-pull assemblies used throughout the A-7.

To provide for a better understanding of Controlex assemblies the following article reprinted from LTV's ' 1970 issue of MAINTENANCE DIGEST is ad. Ed. by C. A. KNIGHT LTV Maintainability Engineer

Some publications refer to Controlex units as cable. Controlex is not a cable and cannot be handled in the same manner as a cable within a conduit, such as a "teleflex cable." Controlex is a precision, ball bearing, flexible push-pull control assembly and it can be damaged, or its operation impaired if it is not handled properly; however, when handled and installed properly it is extremely durable and dependable. Figure 1 is a cross

TAC ATTACK

Controlex Push-Pull Assemblies



Ed Note... The center blade (ribbon) rides between closely spaced ball bearings and transmits the force (push-pull) from the input to the output linkage. section of the Controlex push-pull assembly.

It is not obvious in Figure 1; but, the fixed race completely restrained by anchor pieces in the r housing. The sliding race is slotted in the rigid housing permitting movement of approximately 0.38 inch along the length of the control. This construction allows the assembly to bend approximately 180 degrees when the fixed race is on the inside of the bend.

This is the natural direction of bending. The center blade is free to glide on the ball bearings between the two outer races, and it is through this blade that movement is imparted from the input linkage to the output linkage. The whole internal assembly will helix (spiral) inside the housing within the degree permitted by twisting of the fixed race between its attached ends. This ability to helix permits multiple and/or out-of-plane bending in the longer installations.

Personnel working on Controlex installations are urged to become familiar with the characteristics of Controlex prior to attempting installations. The following tips/precautions should aid in this familiarization:

1. Do not force the Controlex to bend in a direction other than the direction of natural bend. A hump or "crank" handle formed in the Controlex will make out-of-plane bends easy to install.

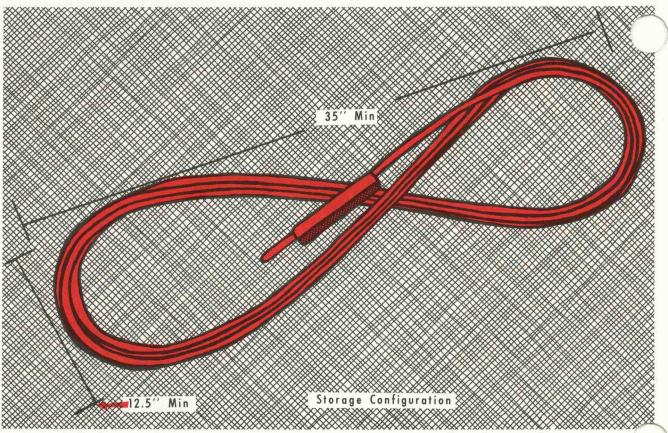


FIGURE 2

2. Do not twist the flexible housing. This will result in '-inking the diameter of the housing and possible

ation where it is swaged into the rigid end fittings. is not to preclude permitting the internal assembly to helix, which may be necessary to make certain bends in the installation.

3. DO NOT COIL CONTROLEX IN A CIRCULAR COIL. This will permanently damage the internal races by stretching. Coiling in a "figure eight" is proper and eliminates stretching. (Refer to Figure 2.) The "figure eight" essentially limits the angle of bend to 180 degrees since each second loop is subtractive from the first in computing the angle of bend.

Control assemblies should be uncoiled in the flat plane of the "figure eight." Two men are required to properly uncoil or recoil an assembly. (Refer to Figure 3.)

4. When installing the control in an airframe, uncoil the control in the plane of the "figure eight" and feed it through the airframe aft and/or forward, keeping the loops in a vertical plane as shown in Figure 4.

5. Controlex can be bent to a radius of 3 inches if necessary during installation, but the installed assembly should have a minimum radius of 6 inches.

6. Controlex does not bend equally well in both directions in the plane of bending. If one end resists bending in a plane it will be necessary to either reverse the

" oction of bend (short assemblies) or crank in a helix to re the condition (long assemblies). DO NOT HELIX CEPT AS ABSOLUTELY NECESSARY.

7. Controlex does not need clamps or other restraints

to operate. Clamps are used to prevent fouling of adjacent installations. Do not, therefore, add clamps or reduce the size of oversized clamps which may have been installed to permit oscillations of the Controlex end sliders. The intent, when clamping the housing, is to restrain the control in space, not to crush or squeeze it. The control assembly should be free to move through the clamp.

We cannot overemphasize the importance of proper handling of these push-pull assemblies. With careful handling and installation, a Controlex assembly will function efficiently and effectively for an indefinite time period.

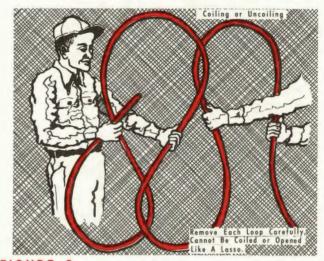
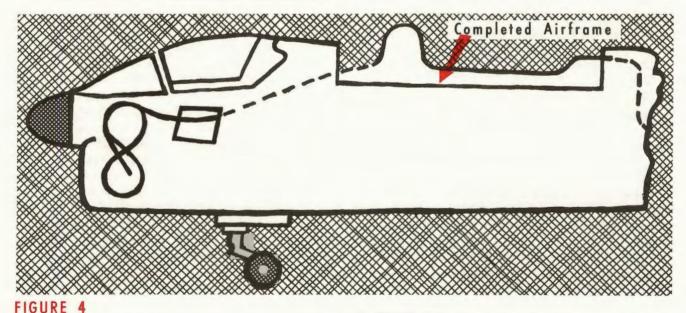


FIGURE 3



CAUTION: If binding or throttle stiffness occurs, do not attempt to lubricate the Controlex system; <u>no</u> lubrication of A-7 Controlex systems is permitted.



TAC TIPS

... interest items, mishaps

A Lesson Learned

The T-39 was cruising at FL 350. Center was queried about the weather situation and replied that thunderstorms were ahead on the planned route, but that an alternate route was reported clear by other aircraft operating between FL 310 and FL 390. Clearance was received for the alternate route at FL 390 and then to FL 410. While at FL 410, in a cirrus layer, a sudden updraft carried the machine to FL 450. Center was accommodating and cleared the aircraft to maintain FL 450. Shortly afterward number two engine flamed out, followed within moments by number one.

Airspeed at the time of flameout was 160 KIAS. An unusual attitude resulted and recovery was accomplished on instruments 10,000 feet later, at about FL 350. An airstart was attempted on number two which resulted in an engine fire indication. The restart was terminated. At FL 305, an airstart was attempted on number one which also resulted in a fire. The restart was discontinued and the fire blew out. Number two engine was still giving a fire indication, so the fire emergency T-handle was pulled. At FL 210 a second airstart attempt of number one was successful.

Meanwhile, center was unable to assist in navigation to the nearest emergency airfield because their radar had been knocked out of commission by a lightning strike. The VOR at the nearest AFB was tuned. The field was acquired visually and a pattern was set up to land on the north runway using the ILS as a backup.

Rainshowers and gusts obscured the runway during the approach. A normal single engine approach was accomplished with touchdown 1000 feet down the runway at 114 KIAS. During the rollout the airplane hydroplaned for 5000 feet and at the 3000 foot remaining point both main tires blew. The aircraft veered to the right and continued the rotational movement (ground loop) for 240 degrees. During the turn number one engine was shutdown. The aircraft finally came to rest on the right side of the runway and the crew and passengers quickly egressed.

Damage consisted of two blown main gear tires and the

left wheel rim ground flat. There was no structural damage.

Looking at the factors involved provides a lesson for us all. The pilot entered cirrus clouds while attempting to avoid the weather in an area of known thunderstorms. Light turbulence, coupled with an attempt on the pilot's part to maintain altitude, caused the airspeed to drop to 160 KIAS. These factors caused the inlet airflow to be disrupted and subsequently dual engine flameout. There were other factors that ganged up on the pilot. The weather briefing received during preflight and later through flight service indicated that FL 350 would clear all weather along the proposed route. Information from ARTC led the pilot to believe that the alternate route of flight would present no weather problems. Looks like they were wrong. Just more proof that the weat situation can change mighty fast.

The Thud that didn't

The pilot was cruising his trusty Thud on a low level nay mission at 400 knots and 1000 feet AGL with autopilot on when the Thunderthing started to make like it was boss. It began a rapid roll to the left. The jock disconnected the autopilot and stab aug, then applied right aileron and rudder pressure. However, the stick would not move to the right and the Thud continued the roll to 100 degrees left bank. The pilot then reduced power and applied bunches of back stick. The machine slowly recovered to 60 degrees left bank, but when power was reapplied the left roll increased. The pilot established a climb and reduced airspeed to below rudder lock-out speed where he was able to maintain wings level flight with nearly full right rudder. He continued the climb to above 18,000 feet, delcared an emergency and received assistance from an airborne IP, mobile control, and a Republic tech rep.

After the conversations the jock turned on stab lock switch and lowered the left flap (only) to relieve heavy rudder pressure. The stick still refused to move to the right but the pilot could establish a 10-15 degree right bank with rudder.

The pilot experimented with left flap positions

with morals, for the TAC aircrewman

min control speeds with the gear hanging to figure out the best landing configuration. Final flap setting was: left flap 48 percent, right flap up. The jock landed the Thud from a straight in approach at 235 KCAS touching down 2000 feet from the approach end of a 12,000 foot runway. The pilot didn't have any problems stopping the machine using aero braking and the chute.

After parking the right aileron was full down and the left aileron was neutral with both spoilers closed.

The maintenance folks found a support bracket with a clamp attaching bolt and broken clamp ears lodged in the right aileron power control unit which had locked the control valve in the extended position driving the right aileron full down.

Hats off to the pilot for a great job.

The Wake

We've all sat through movies, listened to lecturers, and read studies of wake turbulence. Volumes of data have been published concerning its evils and what we can do to avoid them. Somebody didn't listen . . .

The 0-2 (another command) returned from an uneventful mission and entered the pattern for Runway 07 on the downwind leg. A C-130 was on final. The 0-2 turned final behind the C-130 for a normal full flap landing. Tower cleared the 0-2 to land behind the 130 calling the winds 220/04 and citing possible wake turbulence. The 0-2 jock acknowledged the call. At a point fifty feet up and 1000 feet from the approach end of the runway the 0-2 entered the turbulence. The pilot applied full power and fought the controls but it was too late. The aircraft continued to descend and the left wingtip struck the ground thirteen feet to the right of the overrun. The aircraft skidded for 220 feet and was demolished in the process.

Wake turbulence is a reality. You can't see it, smell it, or hear it, but you can avoid it by knowing where it is and putting to practice those things you learned in the movies, lectures, and volumes of reading material published on the

t. TAC ATTACK

... and here's the Kicker!

During a multi-bundle drop (another command) two C-130 loadmasters were secured to the aircraft floor by restraining straps attached to their parachute harnesses. The loadmasters involved in the airdrop were: a kicker, a hooker, and two feeders. The feeders push bundles to the hooker who attaches the bundles to a static line and the kicker pushes (kicks) the bundles out of the aircraft. Both the kicker and the hooker were equipped with the restraining straps. The feeders did not have any restraining gear since their job didn't call for them to operate aft of the paratroop doors.

During the airdrop the kicker lost his balance and fell, breaking his arm, then bounced off the aft edge of the ramp and into the slip stream, dangling by his restraining strap.

The hooker (the man nearest the kicker) was apparently wearing a shorter restraining strap and could not reach the kicker to pull him in.

One of the feeders, who was wearing neither parachute nor restraining harness, rushed to the kickers aid and pulled him inside the airplane.

One of the recommendations is to make the restraining straps of sufficient length to allow the kicker enough line to do his job but not enough so that he can fall out of the airplane.

The kicker, most likely, agrees.

Definition -

SELF-INFLICTED GIG (self-inflikt'ed gig) n. 1. In military, an IG or Safety survey write-up for not complying with a locally-imposed directive, plan, etc. Such gigs generate paperwork which contribute little or nothing to accident prevention. Example: A higher hq requires monthly inspections to be performed by certain unit Safety personnel. Local plan requires weekly inspection and written report; however, procedure is not enforced. 2. SYN, see <u>unnecessary</u>. 3. Moral: If a supplemental local procedure is desired, it should be performed as required, otherwise, deleted (collog: CYA).

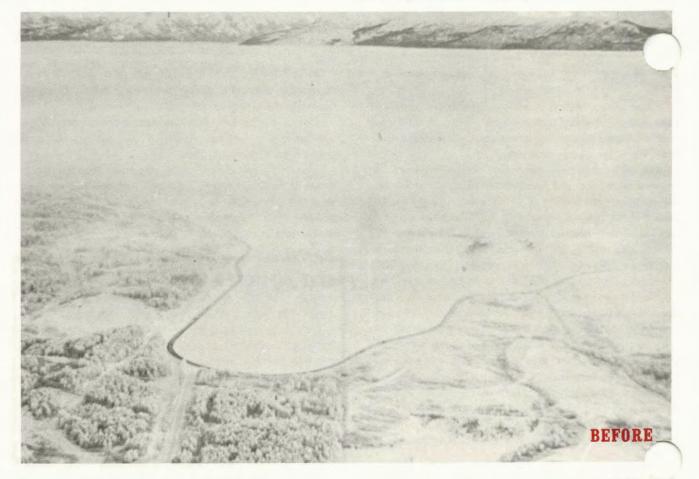
The FOG KILLERS

by Captain John C. Lease

Every now and then a significant advancement is n in weather technology that grabs the attention of flying community. This article written by Captain Lease, who has the imposing title of Assistant Chief, Aerospace Modification Division, Office of the AWS for Aerospace Sciences, reports on such an advancement. It will be of particular interest to European rotational aircrews and dual-based fighter units. Ed.

How many times has your mission been delayed, altered, or cancelled due to fog at either home plate or the terminal field? Until recently nothing could be done about it except wait for it to clear, or if you were airborne, divert to your alternate. Now, due to a unique function provided by Air Weather Service, there is another alternative: fog dispersal.

There are three different types of fog. Warm fog is the most common type that affects military operations. It consists of liquid water droplets and occurs at temperatures above freezing. Promising investigations in warm fog dissipation are being conducted in the United





States and abroad, but success has been limited and techniques are not ready for operational application. The second and rarest type is ice fog, which is composed of very small ice crystals and occurs in the Arctic regions when temperatures fall below -30° C. Like warm fog, no practical technique yet exists for dissipating ice fog. The third type of fog, supercooled or cold fog, is composed of liquid water droplets at temperatures between 0° C and -30° C. Although cold fog accounts for less than 5 percent of the fog that occurs in the world, it does significantly interfere with military operations in Europe, Alaska, and the northwestern United States during the winter months. However, unlike warm fog and ice fog, we now have techniques that can create dramatic visibility improvements in cold fogs.

The method to dissipate cold fog has been known to scientists since the 1940s. Schaefer and Vonnegut demonstrated in controlled laboratory and field experiments that coolants could be used to trigger the growth of ice crystals and the evaporation of water drops in supercooled clouds. The technique, known as the Bergeron-Findeisen process, relies on the vapor pressure directed between water and ice. The vapor pressure over

er droplet is greater than that over an ice crystal.

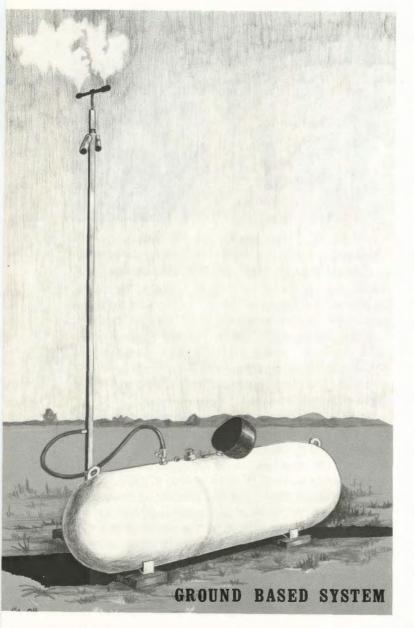
Therefore, if a large number of ice crystals can be produced in the fog, the crystals will grow at the expense of the water droplets, eventually falling out as small snow flakes, thus improving the visibility. To produce the ice crystals it is necessary to "seed" the fog with an agent capable of drastically cooling small areas in the fog. Common cooling agents are dry ice and liquid propane. After the ice crystals have formed, they diffuse throughout the surrounding fog by the natural turbulence of the air. The complete process from seeding to clearing requires 30 to 60 minutes.

In 1967 Air Weather Service was assigned the mission to conduct weather modification to support Air Force operations. As a result of earlier efforts there was little question that cold fog could be dissipated; the real problem was how to do it operationally. In the winter of 1967-68, project Cold Cowl was initiated at Elmendorf AFB, Alaska, to conduct an operational test of an airborne fog dispersal technique. The results of this test were encouraging enough to prompt the initiation of a second project the following year.

The objective of the second project, Cold Crystal, was to provide weather modification support to Air Force bases in the Eifel area of Germany. Both projects used

THE FOG KILLERS





AWS WC-130s as the seeding aircraft. These aircraft are used for hurricane and typhoon reconnaissance in summer and fall and are thereafter available for tasks. The WC-130 employs an ice crusher/dispenser to crush blocks of dry ice into pellets and then dispense them into the fog through a hole in the bottom of the aircraft. The seeding patterns vary in size and location according to wind speed and direction, desired duration of clearing, and existence of terrain obstacles. The typical seeding pattern consists of 5 to 30 lanes, 4 to 15 miles long, spaced one-half to one mile apart. Seeding rates range from 15 to 30 pounds per mile, depending on the depth of fog and the temperature. The patterns are flown an hour upwind of the runway (based on wind velocity) to allow time for ice crystal spreading, growth, and fallout.

Airborne seeding has been very successful. In the last two years over 600 takeoffs and 500 landings have been assisted. This year, operational support will again be provided from 15 November to 15 February at Elmendorf AFB in Alaska and Hahn, Bitburg, Ramstein, Rhein-Main, Zweibrucken, Mildenhall, Wiesbaden, and Spangdahlem in Europe.

Shortly after the development of the airborne system, work began on developing a ground-based cold fog dissipation system which was envisioned as the eventual successor to the airborne system in providing fixe support. In 1969-70 the first system was install Fairchild AFB. It consisted of an array of propane dispensers located in an arc around the runway complex. Each dispenser is capable of vaporizing 10 gallons per hour of liquid propane into the fog. (The liquid propane acts in the same manner as dry ice in dissipating the fog.) During a fog dispersal operation five or six dispensers located directly upwind of the runway are turned on one hour before the scheduled arrival or departure of any aircraft and left on until all flying operations are completed.

The results of the ground-based fog dissipation support have been equally as effective as the airborne system. In the first year of operation at Fairchild, the Strategic Air Command documented a cost savings of over \$232,000. Since that time another ground-based system has been installed at Hahn AB and is now undergoing a checkout. Presently a radio-controlled system is being installed at Elmendorf which will replace the airborne operation after a checkout period.

Cold fog dissipation is now an operational reality. It is available for use by any aircraft at the above listed bases. The only thing required of you, the pilot, is to give the weather people two hours' notice prior to your arrival so they can have the field above minimums when you arrive

JEAPONS WORDS

too little knowledgetoo little thought

We in the Weapons Safety business thought the extensive publicity given to accidents caused by "unloaded," "safe," weapons had everyone wary of accepting anything less than positive proof that the "gun is empty." But, several individuals recovering from their wounds prove everyone hasn't gotten the word so we will try one more time.

During a recent field security evaluation exercise at one of our TAC bases, a senior NCO was injured as a result of an explosives mishap. A part of the NCO's duties during the security exercise required the use of M-119 whistling booby trap simulators to simulate the sound of incoming rounds. As the exercise progressed the NCO was handed an M-117 flash booby trap simulator which has physical characteristics ALMOST identical to the M-119 whistling simulator. The NCO, thinking he was holding an M 119, activated the device and was injured by the

ing flash explosion. The unit was unable to mine how the unauthorized M-117 flash device entered the evaluation site but the painful burns suffered by the NCO should make all personnel more cautious during future training and evaluation operations.

Not long ago, a 40mm grenade round used as a paper weight was knocked off a table where some people were playing cards. It functioned upon impact with the floor; end of card game and no winners!

An NCO was visiting a nearby base to assist in phase-down operation for base closure. A FRIEND gave him a BLU-26/B souvenir that had been used for over a year as a paper weight. The bomblet, just smaller than a tennis ball, is a blue sphere with four aerodynamic flutes, and to say the least it made a handsome desk ornament. The NCO returned the bomblet to his home base by government vehicle and placed it on his desk for display. Other personnel visiting the office noted that the bomb did not have holes drilled in it or the word EMPTY or INERT impressed on the outside surface as required by TO 11A-1-53. The area was evacuated and EOD assistance requested. Examination of the BLU-26/B bomblet disclosed that the handsome paper weight was LIVE and dangerous.

Reports of safe items resulting in accidents causing th, maiming, and destruction are numerous. Suffice to know the requirements of TO 11A-1-53 for marking explosives items as safe for display and training. The only safe way is to have positive proof the souvenir, memento or gun is NOT LOADED before you treat them casually.

If your souvenir hasn't been drilled and marked as required by TO 11A-1-53 and you're not positive it is inert, better check with your EOD section to have them verify its status.

gambler's regret

Luck ran out for one of our munitions loadcrews that decided to gamble against the odds. As we all know, the "gamble" is scrubbed out of our operations by use of easy-to-follow checklists. However, this loadcrew elected to gamble by not following established procedures, not just once, but three times before losing to an errant 2.75 rocket.

It all started when an aircraft returned from a ground attack training mission with unexpended munitions. Our loadcrew didn't waste time before testing their luck. First, during dearm they ignored part of the checklist and as a result communication between the aircrew and the weapons crew chief was not established. Also, the aircraft was not properly checked for unexpended munitions during installation of safety devices. Second, the same loadcrew failed to use their checklist properly when downloading the SUU-20 from the aircraft; as a result, the unexpended munitions remained in the SUU-20 dispenser. The loadcrew tried once more for an accident by not accomplishing that part of the checklist requiring removal of rockets and bombs when they installed the same SUU-20 dispenser on another aircraft, Although too late. it was at this point the loadcrew decided to follow checklist procedures and all were properly positioned for the electrical checks. This placed the number three man directly behind the dispenser, but, instead of voltage readings, he saw from too close a range the exhaust blast of a 2.75 rocket.

Bad luck? Not really! The loadcrew blew three chances to use the checklist properly, any one of which would have shown this SUU-20 was lethal. The accident report shows primary cause was personnel error in failure to use the checklist properly, with a contributing cause of poor supervision. We must look beyond these cause factors to see the price someone inevitably pays for a gamble against the odds! We must look to the man who received the full blast from the 2.75 rocket, to see his burned arm, his burned shoulder, and sightless eye.



TT - TAC Tips CT - Chock Talk

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$\begin{array}{l} TT - LESS \ LIGHT \\ TT - WINDMILLING \ WANDERER \\ CT - WATCH \ THE \ KNIFE \\ TT - TAXI \ ACCIDENT \\ FLAMEOUT \ VS \ POWER \ LOSS \\ CT - PANELS \ AGAIN \\ A BOMB BY \ ANY OTHER \ NAME \\ TT - A \ HAIRS \ VANY OTHER \ NAME \\ TT - A \ HAIRS \ VANY OTHER \ NAME \\ TT - JUDGMENT \\ CT - SIGHTLESS \ \mathsf{WINDOW } \\ CT - CONTROLS \\ TT - JUDGMENT \\ CT - CRG \ REVOLS \\ TT - GEORG \ REVOLTED \\ CT - FORMULA \ FOR \ AN \ ACCIDENT \\ TT - GEORG \ REVOLTED \\ CT - PLUGGED \ \mathsf{POWER} \\ TT - AND \ HERES \ THE \ \mathsf{KICKERI} \end{array}$	JAN FEB MAR APR MAY JU/AUG JU/AUG JU/AUG SEP SEP SEP OCT OCT NOV DEC DEC	23 14 26 10 22 24 4 10 18 12 22 20 20 20 24 9 22
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SO YOU WANT TO FLY IN A THUNDERSTORM ?	MAY	
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	NOV	0
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CT - A SNAGGLETOOTH SABRE F-104 CT - NEW FOD CT - FOXED BY LOX CT - SCREWDRIVERS AREN'T EXPENSIVE F-105 SECOND LOOK ANOTHER WILD RIDE CT - SVIDSIVE BOLTS BITE CT - SUJRPRISE III CT - WHAT HAPPENED TO THE BOOK TT - THE THUD THAT DIDN'T F-111 SWING WING DEPARTURES TT - ROLLBACK OR NOT7	NOV DEC MAR SEP NOV JAN MAR MAR MAR NOV DEC JUN SEP	27 22 15 15 16 27 14 15 22
CT – A SNAGGLETOOTH SABRE F-104 CT – NEW FOD CT – FOXED BY LOX CT – SCREWDRIVERS AREN'T EXPENSIVE F-105 SECOND LOOK ANOTHER WILD RIDE CT – EXPLOSIVE BOL'TS BITE CT – SUAPRISE III CT – SUAPRISE III CT – WHAT HAPPENED TO THE BOOK TT – THE THUD THAT DIDN'T F-111 SWING WING DEPARTURES TT – ROLLBACK OR NOT? ZARK AND TINK LOOK AT THE F-111	NOV DEC MAR SEP NOV JAN MAR MAR APR NOV DEC	27 22 15 16 16 27 14 15 22 4 13
CT – A SNAGGLETOOTH SABRE F-104 CT – NEW FOD CT – FOXED BY LOX CT – SCREWDRIVERS AREN'T EXPENSIVE F-105 SECOND LOOK ANOTHER WILD RIDE CT – EXPLOSIVE BOLTS BITE CT – SUAPRISE III CT – WHAT HAPPENED TO THE BOOK TT – THE THUD THAT DIDN'T F-111 SWING WING DEPARTURES TT – ROLLBACK OR NOT? ZARK AND TINK LOOK AT THE F-111 O-1	NOV DEC MAR SEP NOV JAN MAR MAR MAR NOV DEC JUN SEP SEP	27 22 15 16 27 14 15 22 4 13 14
CT – A SNAGGLETOOTH SABRE F-104 CT – NEW FOD CT – FOXED BY LOX CT – SCREWDRIVERS AREN'T EXPENSIVE F-105 SECOND LOOK ANOTHER WILD RIDE CT – EXPLOSIVE BOL'TS BITE CT – SUAPRISE III CT – SUAPRISE III CT – WHAT HAPPENED TO THE BOOK TT – THE THUD THAT DIDN'T F-111 SWING WING DEPARTURES TT – ROLLBACK OR NOT? ZARK AND TINK LOOK AT THE F-111	NOV DEC MAR SEP NOV JAN MAR MAR MAR NOV DEC JUN SEP	27 22 15 16 16 27 14 15 22 4 13
CT – A SNAGGLETOOTH SABRE F-104 CT – NEW FOD CT – FOXED BY LOX CT – SCREWDRIVERS AREN'T EXPENSIVE F-105 SECOND LOOK ANOTHER WILD RIDE CT – EXPLOSIVE BOLTS BITE CT – SUAPRISE III CT – WHAT HAPPENED TO THE BOOK TT – THE THUD THAT DIDN'T F-111 SWING WING DEPARTURES TT – ROLLBACK OR NOT? ZARK AND TINK LOOK AT THE F-111 O-1	NOV DEC MAR SEP NOV JAN MAR MAR MAR NOV DEC JUN SEP SEP	27 22 15 16 27 14 15 22 4 13 14
CT - A SNAGGLETOOTH SABRE F.104 CT - NEW FOD CT - FOXED BY LOX CT - SCREWDRIVERS AREN'T EXPENSIVE F.105 SECOND LOOK ANOTHER WILD RIDE CT - EXURPRISE III CT - SURPRISE III CT - SURPRISE III CT - THE THUD THAT DIDN'T F.111 SWING WING DEPARTURES TT - ROLLBACK OR NOT? ZARK AND TINK LOOK AT THE F-111 O-1 SECOND LOOK O-2 CT - SET THE BRAKES	NOV DEC MAR SEP NOV JAN MAR MAR MAR MAR NOV DEC JUN SEP SEP JAN	27 22 15 16 27 14 15 22 4 13 14 15 22 4 13 14
CT - A SNAGGLETOOTH SABRE F.104 CT - NEW FOD CT - FOXED BY LOX CT - SCREWDRIVERS AREN'T EXPENSIVE F.105 SECOND LOOK ANOTHER WILD RIDE CT - SVDRPISE III CT - WHAT HAPPENED TO THE BOOK TT - THE THUD THAT DIDN'T F.111 SWING WING DEPARTURES TT - ROLLBACK OR NOT? ZARK AND TINK LOOK AT THE F-111 O1 SECOND LOOK O2 CT - SET THE BRAKES TT - FIRE EXTINGUISHER AGENT DISCHARGED	NOV DEC MAR SEP NOV JAN MAR MAR MAR APR NOV DEC JUN SEP SEP JAN APR NOV	27 22 15 16 16 27 14 15 22 4 13 14 15 14 24
CT – A SNAGGLETOOTH SABRE F.104 CT – NEW FOD CT – FOXED BY LOX CT – SCREWDRIVERS AREN'T EXPENSIVE F.105 SECOND LOOK ANOTHER WILD RIDE CT – EXPLOSIVE BOLTS BITE CT – SUAPRISE III CT – EXPLOSIVE BOLTS BITE CT – SUAPRISE III CT – WHAT HAPPENED TO THE BOOK TT – THE THUD THAT DIDN'T F.111 SWING WING DEPARTURES TT – ROLLBACK OR NOT? ZARK AND TINK LOOK AT THE F-111 O-1 SECOND LOOK O-2 CT – SET THE BRAKES TT – FIRE EXTINGUISHER AGENT DISCHARGED TT – THE WAKE	NOV DEC MAR SEP NOV JAN MAR MAR MAR MAR NOV DEC JUN SEP SEP JAN	27 22 15 16 27 14 15 22 4 13 14 15 22 4 13 14
CT - A SNAGGLETOOTH SABRE F.104 CT - NEW FOD CT - FOXED BY LOX CT - SCREWDRIVERS AREN'T EXPENSIVE F.105 SECOND LOOK ANOTHER WILD RIDE CT - SVDRPISE III CT - WHAT HAPPENED TO THE BOOK TT - THE THUD THAT DIDN'T F.111 SWING WING DEPARTURES TT - ROLLBACK OR NOT? ZARK AND TINK LOOK AT THE F-111 O1 SECOND LOOK O2 CT - SET THE BRAKES TT - FIRE EXTINGUISHER AGENT DISCHARGED	NOV DEC MAR SEP NOV JAN MAR MAR APR NOV DEC JUN SEP SEP JAN APR NOV DEC	27 22 15 16 16 27 14 15 22 4 13 14 14 15 14 24 23
CT - A SNAGGLETOOTH SABRE F.104 CT - NEW FOD CT - FOXED BY LOX CT - SCREWDRIVERS AREN'T EXPENSIVE F.105 SECOND LOOK ANOTHER WILD RIDE CT - SUPPRISE III CT - SUPPRISE III CT - WHAT HAPPENED TO THE BOOK TT - THE THUD THAT DIDN'T F.111 SWING WING DEPARTURES TT - NOLLBACK OR NOT? ZARK AND TINK LOOK AT THE F-111 O1 SECOND LOOK O2 CT - SET THE BRAKES TT - FIRE EXTINGUISHER AGENT DISCHARGED TT - THE WAKE OY - 10 TT - INTIMATE FAMILIARIZATION	NOV DEC MAR SEP NOV JAN MAR MAR MAR APR NOV DEC JUN SEP SEP JAN APR NOV	27 22 15 16 16 27 14 15 22 4 13 14 15 14 24
CT – A SNAGGLETOOTH SABRE F-104 CT – NEW FOD CT – FOXED BY LOX CT – SCREWDRIVERS AREN'T EXPENSIVE F-105 SECOND LOOK ANOTHER WILD RIDE CT – SUAPRISE III CT – SUAPRISE III CT – SUAPRISE III CT – SUAPRISE III CT – WHAT HAPPENED TO THE BOOK TT – THE THUD THAT DIDN'T F-111 SWING WING DEPARTURES TT – ROLLBACK OR NOT? ZARK AND TINK LOOK AT THE F-111 O-1 SECOND LOOK O-2 CT – SET THE BRAKES TT – FIRE EXTINGUISHER AGENT DISCHARGED TT – THE WAKE OV – 10 TT – INTIMATE FAMILIARIZATION TT – BUSTED STANDARD	NOV DEC MAR SEP NOV JAN MAR MAR MAR MAR MAR DEC JUN SEP SEP JAN APR NOV DEC JUN	27 22 15 16 16 27 14 15 22 4 13 14 15 14 22 23 11
CT - A SNAGGLETOOTH SABRE F.104 CT - NEW FOD CT - FOXED BY LOX CT - SCREWDRIVERS AREN'T EXPENSIVE F.105 SECOND LOOK ANOTHER WILD RIDE CT - EXPINISE III CT - EXPINISE III CT - EXPINISE III CT - WHAT HAPPENED TO THE BOOK TT - THE THUD THAT DIDN'T F.111 SWING WING DEPARTURES TT - ROLLBACK OR NOT? ZARK AND TINK LOOK AT THE F-111 OL SECOND LOOK O2 CT - SET THE BRAKES TT - FIRE EXTINGUISHER AGENT DISCHARGED TT - THE WAKE OV - 10 TT - INTIMATE FAMILIARIZATION TT - BUSTED STANDARD	NOV DEC MAR SEP NOV JAN MAR MAR MAR NOV DEC JUN SEP SEP JAN APR NOV DEC JU/AUG SEP	27 22 15 16 27 14 16 27 14 15 22 4 13 14 15 14 23 11 13
CT – A SNAGGLETOOTH SABRE F-104 CT – NEW FOD CT – FOXED BY LOX CT – SCREWDRIVERS AREN'T EXPENSIVE F-105 SECOND LOOK ANOTHER WILD RIDE CT – SUAPRISE III CT – SUAPRISE III CT – SUAPRISE III CT – SUAPRISE III CT – WHAT HAPPENED TO THE BOOK TT – THE THUD THAT DIDN'T F-111 SWING WING DEPARTURES TT – ROLLBACK OR NOT? ZARK AND TINK LOOK AT THE F-111 O-1 SECOND LOOK O-2 CT – SET THE BRAKES TT – FIRE EXTINGUISHER AGENT DISCHARGED TT – THE WAKE OV – 10 TT – INTIMATE FAMILIARIZATION TT – BUSTED STANDARD	NOV DEC MAR SEP NOV JAN MAR MAR MAR MAR MAR DEC JUN SEP SEP JAN APR NOV DEC JUN	27 22 15 16 16 27 14 15 22 4 13 14 15 14 22 23 11
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CT - A SNAGGLETOOTH SABRE F.104 CT - NEW FOD CT - FOXED BY LOX CT - SCREWDRIVERS AREN'T EXPENSIVE F.105 SECOND LOOK ANOTHER WILD RIDE CT - EXPINISE III CT - EXPINISE III CT - EXPINISE III CT - WHAT HAPPENED TO THE BOOK TT - THE THUD THAT DIDN'T F.111 SWING WING DEPARTURES TT - ROLLBACK OR NOT? ZARK AND TINK LOOK AT THE F-111 OL SECOND LOOK O2 CT - SET THE BRAKES TT - FIRE EXTINGUISHER AGENT DISCHARGED TT - THE WAKE OV - 10 TT - INTIMATE FAMILIARIZATION TT - BUSTED STANDARD T29 IT KIND OF MAKES YOU WONDER CT - IT'L GIVE YOU THE JITTERS T.33	NOV DEC MAR SEP NOV JAN MAR MAR APR NOV DEC JUN SEP SEP JAN APR NOV DEC JUN SEP SEP JAN	27 22 15 16 16 27 14 15 22 4 13 14 15 14 22 15 14 23 11 13 11 13 17
CT - A SNAGGLETOOTH SABRE F-104 CT - NEW FOD CT - FOXED BY LOX CT - SCREWDRIVERS AREN'T EXPENSIVE F-105 SECOND LOOK ANOTHER WILD RIDE CT - SUPPRISE III CT - SUPPRISE III CT - SUPPRISE III CT - WHAT HAPPENED TO THE BOOK TT - THE THUD THAT DIDN'T F-111 SWING WING DEPARTURES TT - ROLLBACK OR NOT? ZARK AND TINK LOOK AT THE F-111 O-1 SECOND LOOK O-2 CT - SET THE BRAKES TT - FIRE EXTINGUISHER AGENT DISCHARGED TT - THE WAKE OV - 10 TT - INTIMATE FAMILIARIZATION TT - BUSTED STANDARD T-29 IT KIND OF MAKES YOU WONDER CT - TI'LL GIVE YOU THE JITTERS	NOV DEC MAR SEP NOV JAN MAR MAR MAR NOV DEC JUN SEP SEP JAN DEC JU/AUG SEP JAN FEB	27 22 15 16 16 27 14 15 22 4 13 14 15 14 22 15 14 23 11 13 17 9 23 24
CT - A SNAGGLETOOTH SABRE F104 CT - NEW FOD CT - FOXED BY LOX CT - SCREWDRIVERS AREN'T EXPENSIVE F105 SECOND LOOK ANOTHER WILD RIDE CT - EXPLOSIVE BOLTS BITE CT - SUAPRISE III CT - SUAPRISE III CT - WHO'S CHECKLIST? CT - THE THUD THAT DIDN'T F111 SWING WING DEPARTURES TT - ROLLBACK OR NOT? ZARK AND TINK LOOK AT THE F-111 O1 SECOND LOOK O2 CT - SET THE BRAKES TT - FIRE EXTINGUISHER AGENT DISCHARGED TT - THE WAKE OV - 10 TT - INTIMATE FAMILIARIZATION TT - BUSTED STANDARD T29 IT KIND OF MAKES YOU WONDER CT - I'L GIVE YOU THE JITTERS T33	NOV DEC MAR SEP NOV JAN MAR MAR MAR NOV DEC JUN SEP SEP JAN APR NOV DEC JU/AUG SEP JAN MAR DEC JAN	27 22 15 15 16 16 27 14 15 22 4 13 14 24 23 11 13 17 9 23 24 17
CT - A SNAGGLETOOTH SABRE F104 CT - NEW FOD CT - FOXED BY LOX CT - SCREWDRIVERS AREN'T EXPENSIVE F105 SECOND LOOK ANOTHER WILD RIDE CT - SVDIVE BOLTS BITE CT - SUBPRISE III CT - WHAT HAPPENED TO THE BOOK TT - THE THUD THAT DIDN'T F111 SWING WING DEPARTURES TT - ROLLBACK OR NOT? ZARK AND TINK LOOK AT THE F-111 O1 SECOND LOOK O2 CT - SET THE BRAKES TT - FIRE EXTINGUISHER AGENT DISCHARGED TT - THE WAKE OV - 10 TT - INTIMATE FAMILIARIZATION TT - BUSTED STANDARD T29 IT KIND OF MAKES YOU WONDER CT - T'L GIVE YOU THE JITTERS T33	NOV DEC MAR SEP NOV JAN MAR MAR MAR NOV DEC JUN SEP SEP JAN DEC JU/AUG SEP JAN FEB	27 22 15 16 16 27 14 15 22 4 13 14 15 14 22 15 14 23 11 13 17 9 23 24

			FLEAGLE		
Т-37			FLEAGLE - FLYING	FEB	BC
CT – JAWS	MAR	27	FLEAGLE - FLIGHT SAFETY	MAR	BC BC
T.38			FLEAGLE – WEATHER FLEAGLE – BUZZING	MAY	BC
	MAY	25		JUN JU/AUG	BC BC
OMP CHOMP CHOMP	NIM T	20	FLEAGLE – PRESSING FLEAGLE – MIDAIR	SEP	BC
			FLEAGLE – ATTITUDE FLEAGLE – VERTIGO	OCT	BC
TT - A LESSON LEARNED	DEC	22	FLEAGLE - MIDAIR	DEC	BC
ABORT			FLEAGLE'S HOMECOMING	DEC	16
			FLIGHT CONTROL		
TT – F-100 ABORT	FEB	14	TT - F-4 FLIGHT CONTROLS	MAR	10
ANGLE OF ATTACK (OPERATIONS)			TT – F-4 PITCH UP TT – F-4 FLIGHT CONTROLS	MAR	11 10
SWING WING DEPARTURES	JUN	4	TT - FLIGHT CONTROLS	JUN JUN	9
ANGLE OF ATTACK (EDITORIAL)			TT – F-4 FLIGHT CONTROLS – AGAIN TT – GEORGE REVOLTED	NOV	24
ANGLE OF ATTACK (EDITORIAL)			SI MINO PAPETY		
A CHALLENGE WHAT HAVE YOU DONE FOR BLUE FOUR TODAY	JAN FEB	3	FLYING SAFETY		
WHOAII WE'RE MISSING THE TARGET AREA	MAR	3	THE TEAM	SEP	4 26
A TIME OF CHANGE	APR	3	THE INCIDENT REPORT WHAT GOOD IS IT? IT'S EASY WHEN YOU'RE A PRO	DEC	4
TOO MANY DEAD! ISOLATED CASE?	JUN	З	THE LURE OF HOME	DEC	10
THE "I's" HAVE IT	JU/AUG	3	FOD		
KNOCK ON WOULD "FOR THE NORTH WIND DOTH BLOW "	SEP	3	FOD		
READ THE SIGNALS	NOV	3	TT WHO'S CHECKLIST?	JAN JAN	23 26
LOOKING AHEAD	DEC	3	CT – BUTTON IT UP CT – ETERNAL VIGILANCE	JAN	27
ATC			CT - BIG BLAST	JAN	27
ADDITIONAL SERVICE	FEB	8	TT – NO CHECKEE – NO LAUNDRY – TIMES TWO CT – F-4 FOREIGN OBJECT	FEB	15 24
TT – ATTENTION MILITARY PILOTS SO YOU WANT TO LAND YOUR AIRCRAFT?	MAR	10	CT – F-4 JAMMED STICK	FEB	24
TT - POSITIVE CONTROL AREAS (PCA)	JUN	8	CT - A FIRST???	FEB	25 25
TT - CHECK BEFORE YOU SQUAWK	JU/AUG NOV	11	CT – F-4 FOD CT – FOD	MAR	26
YOUR TWO CENTS WORTH TT PCA	NOV	25	CT - WOULD YOU BELIEVE ?	MAR	26
			CT - NEW FOD	APR	27
AUTOMOBILE SAFETY			TT – F-4 FOD CT – F-4 FOD	APR	14
WHOAH WE'RE MISSING THE TARGET AREA	MAR	3	TT - F-4 COCKPIT FOD	MAY	10 10
TOO MANY DEAD!	MAY	3	TT ~ F-4 FLYING FOD CT - PREFLIGHT - WHO, ME?	MAY	24
TRAGEDY AT CASTELLO LET'S TALK MUSCLE MACHINES, VEHICLE	MAA T	10	CT - THEY'RE FOR THE EARS!!	JUN	24
INSURANCE AND TRAFFIC VIOLATIONS	JUN	16	CT – F-4 FOREIGN OBJECT TT – A HAIRY STORY	JUN JU/AUG	25 10
THE WINTER DRIVING SEASON SO YOU GOT A TICKET MISTER, YOU BREAK MY HEART	OCT	26 30	CT - TORQUE AND G	SEP	22
THE SIGNALS	NOV	3	CT - PANEL FASTENER FOD	OCT NOV	20 14
S AND ARRESTING GEAR			CT – TWO LOOSE NUTS CT – SCREWDRIVERS AREN'T EXPENSIVE	NOV	15
S AND ANNESTING GEAN			CT - PLUGGED POWER	DEC	8
ARRESTING GEAR?	JAN	15 28			
ARRESTING GEAN?	in the second se		FUEL AND FUEL SYSTEMS		
BIRDSTRIKE			SECOND LOOK	JAN	14
TT - FORTUNATELY	JAN	23	IT KIND OF MAKES YOU WONDER	MAR	17
TT - BIRDSTRIKE	OCT	11 8	T-33 TT A PAT ON THE BACK	MAR OCT	17
THE FEATHERED MISSILE		U			
BRAKE SYSTEM			GENERAL		
CT - F-4 NO BRAKES	APR	15	OUT OF THE PAST	JAN	4
CT - LOOPED GOON	SEP	23 25	WHAT HAVE YOU DONE FOR BLUE FOUR TODAY ? TT - LET 'ER RIP	FEB	3 14
TT - GIVE YOURSELF A BREAK WITH THE BRAKES	NOV	25	BREAKTHROUGH	FEB	16
COMMAND AND SUPERVISION			CT - WATCH THE KNIFE	APR	27 8
THE "I's" HAVE IT	JU/AUG	3	MOTORCYCLE SAFETY TT THE WORM SQUIRMS	APR	11
KNOCK ON WOULD	SEP	3	TRAGEDY AT CASTELLO	MAY	16
			FOTO FOLLY DROWNPROOFING	JU/AUG JU/AUG	12 14
COMMUNICATIONS			CT - YELLOW DOTS	JU/AUG	19
HOW ABOUT A SYSTEM?	FEB DEC	22 4	CT – RELIABILITY PROGRAMS TT – THE USAF HAZARD REPORTING SYSTEM	JU/AUG SEP	19 12
IT'S EASY WHEN YOU'RE A PRO	DEC	4	NARCOLEPSY	SEP	24
EJECTION			THE HUNT ARCHEOLOGIST UNCOVERS ENGINEERING MIRACLE	NOV	5
TT - LUCKI	JAN	22	TT PCA	NOV	25
GROUND EGRESS ALA 1918	FEB	30	1971 TAC ATTACK INDEX	DEC	28
TT INTIMATE FAMILIARIZATION CT TWO WRONGS DON'T MAKE IT RIGHT	JU/AUG	11			
TAC LIFE SUPPORT PROGRAM	JU/AUG	26	GROUND SAFETY		
ENGINES			EIGHT DOWN - ONE TO GO!	FEB	12
			MOTORCYCLE SAFETY	APR JU/AUG	8
TT WINDMILLING WANDERER	FEB	14 22	SAFETY AT STAKE FOR STEAKS CT – BENT BOOM	SEP	23
FLAMEOUT VS POWER LOSS TT JUDGMENT	SEP	12	THE HUNT	OCT	4
TT BUSTED STANDARD	SEP	13	READ THE SIGNALS HOLIDAYS FROM DANGER	NOV	3 16
FIRE					
CT – IF	JAN	26	GUNNERY		
TT - F-100 FIRE IN FLIGHT	MAY	10	LET'S GO DROP SOME BOMBS	JAN	30
CT - FIRE-IN-THE-HOLE?	MAY	24 20	TT F-4 RICOCHET TT IT PAYS TO HAVE A GOOD AIM	MAR JU/AUG	11
FIPE FIRE "E EXTINGUISHER AGENT DISCHARGED	NOV	20	ON TARGET	OCT	16

TAC ATTACK

HELICOPTER		
HELICOPTER RESCUE LIMITATIONS	MAY	28
THE SOUND OF PROGRESS	DEC	12
INSTRUMENT & INSTRUMENT FLYING		
ADI PROBLEMS	MAR	4
TT – F-4 ADI DOOLITTLE'S INSTRUMENT FIRST	MAR	11 20
DOCTIFICS INSTROMENT FINAL	140 0	20
INVESTIGATION AND REPORTING		
ISOLATED CASE?	JUN	3
THE INCIDENT REPORT WHAT GOOD IS IT?	NOV	26
LANDINGS		
THE SINK HOLE TT ~ LESS LIGHT	JAN JAN	8 23
TT - LEFT PHLANK	JAN	22
TT - THE SINKHOLE REVISITED	MAR	10
ANOTHER WILD RIDE WHY "TEST" THE ANTI-SKID?	MAR	16 26
TT IT WENT THATAWAY	JUN	9
THE TECHNIQUE OF LANDING THE TEAM	JUN SEP	10
TT - A STERN ADMONISHMENT CIRCA WWI	SEP	12
CT – A-7 STEERING TT – CHECKLIST COMPLETE?	SEP	22
TT GOOD MOVE	OCT	13
TT REMEMBER THE TAIL WHEEL YOUR TWO CENTS WORTH	OCT	13
TT - THE WAKE	DEC	23
LIFE SCIENCES		
NARCOLEPSY THE CROWN PRINCE OF ILLUSION	SEP	24 12
	140 4	12
LONG REACH		
P-38	FEB	26
P-47	MAR	23 20
P-47 and P-51 P-47	APR MAY	18
P-47	JUN	20
P-47	JU/AUG	20
MAINTENANCE		
0000PSII	JAN	24
CT - PUTTING ON THE PRESSURE	JAN	26
CT – BUNDLE TROUBLE		27
CT _ DEADLY BATTERIES	JAN	24
CT – DEADLY BATTERIES CT – HURRY HURRY HURRY	FEB	24 24
CT HURRY HURRY CT BLOCKED PEDAL	FEB FEB FEB	24 25
CT - HURRY HURRY HURRY	FEB	24
CT – HURRY HURRY HURRY CT – BLOCKED PEDAL CT – BANG BANG TT – F-4 TURBINE CT – SURPRISE	FEB FEB FEB APR APR	24 25 25 11 14
CT - HURRY HURRY HURRY CT - BLOCKED PEDAL CT - BANG BANG TT - F-4 TURBINE CT - SURPRISE CT - F-4 FOD	FEB FEB FEB APR APR APR	24 25 25 11
CT - HURRY HURRY HURRY CT - BLOCKED PEDAL CT - BANG BANG TT - F-4 TURBINE CT - SURPRISE CT - F-4 FOD CT - SET THE BRAKES CT - T-BIRDS CONTROLS	FEB FEB FEB APR APR APR APR APR	24 25 25 11 14 14 14 15
CT - HURRY HURRY HURRY CT - BLOCKED PEDAL CT - BANG BANG TT - F-4 TURBINE CT - SURPRISE CT - F-4 FOD CT - SET THE BRAKES CT - T-BIRDS CONTROLS CT - F-4 HOT SECTION PROBLEMS	FEB FEB FEB APR APR APR APR APR MAY	24 25 25 11 14 14 15 24
CT - HURRY HURRY HURRY CT - BLOCKED PEDAL CT - BANG BANG TT - F-4 TURBINE CT - SURPRISE CT - F-4 FOD CT - SET THE BRAKES CT - T-BIRDS CONTROLS	FEB FEB FEB APR APR APR APR APR	24 25 25 11 14 14 15 24 25 25
$\begin{array}{l} CT & - HURRY HURRY HURRY \\ CT & = BLOCKED PEDAL \\ CT & = BANG BANG \\ TT & - F4 TURBINE \\ CT & - SURPRISE \\ CT & - F4 FOD \\ CT & - F4 FOD \\ CT & - SET THE BRAKES \\ CT & - T-BIRDS CONTROLS \\ CT & - F4 HOT SECTION PROBLEMS \\ CT & - CHOMP CHOMP CHOMP \\ CT & - BURNED BATTERY \\ CT & - CT & - THROTTLE LINKAGE \end{array}$	FEB FEB FEB APR APR APR APR APR MAY MAY MAY	24 25 25 11 14 14 15 24 25 25 25
CT - HURRY HURRY HURRY CT - BLOCKED PEDAL CT - BANG BANG TT - F-4 TURBINE CT - SUPRISE CT - F-4 FOD CT - SET THE BRAKES CT - T-BIDS CONTROLS CT - F-4 HOT SECTION PROBLEMS CT - CHOMP CHOMP CHOMP CT - BURNED BATTERY	FEB FEB FEB APR APR APR APR MAY MAY MAY	24 25 25 11 14 14 15 24 25 25
$\begin{array}{l} CT & + HURRY + HURRY \\ CT & = BLOCKED PEDAL \\ CT & = BANG BANG \\ TT & - F4 \ TURBINE \\ CT & - SURPRISE \\ CT & - F4 \ FOD \\ CT & - F4 \ HOT \ SECTION \ PROBLEMS \\ CT & - CHOMP \ CHOMP \ CHOMP \ CHOMP \\ CT & - \ BURNED \ BATTERY \\ CT & - \ FOR \ WANT \ OF \ A \ PIN \\ CT & - \ FOR \ WANT \ OF \ A \ PIN \\ CT & - \ CT \ OVERBOOST \end{array}$	FEB FEB FEB APR APR APR APR APR MAY MAY MAY MAY JUN JUN	24 25 25 11 14 14 15 24 25 25 25 25 25 24 24
$\begin{array}{l} CT & +HURRY +HURRY \\ CT & = BLOCKED PEDAL \\ CT & = BANG BANG \\ TT & = F4 + TURBINE \\ CT & = SURPRISE \\ CT & = F4 + FOD \\ CT & = SET + THE BRAKES \\ CT & = T4 + HOTS CONTROLS \\ CT & = T4 + HOTS ECTION PROBLEMS \\ CT & = CHOMP + CHOMP + CHOMP \\ CT & = D4 + ROTLE + LINKAGE \\ CT & = F4 + ROTLE + LINKAGE \\ CT & = F0R + WANT + OF + PIN \\ CT & = FA + NELS + AGAIN \\ \end{array}$	FEB FEB FEB APR APR APR APR MAY MAY MAY MAY MAY JUN	24 25 25 11 14 14 15 24 25 25 25 25 24
CT - HURRY HURRY HURRY CT - BLOCKED PEDAL CT - BANG BANG TT - F-4 TURBINE CT - SURPRISE CT - F-4 FOD CT - SET THE BRAKES CT - T-BIDS CONTROLS CT - T-BIDS CONTROLS CT - F-4 HOT SECTION PROBLEMS CT - HOW PCHOMP CHOMP CT - BURNED BATTERY CT - F-4 THROTTLE LINKAGE CT - FOR WANT OF A PIN CT - PANELS AGAIN CT - C-7 USERBOOST CT - FOR WANT OF A PIN CT - HOW NOT TO BE HELPFUL TT - F-4 CANOPY	FEB FEB FEB APR APR APR APR APR MAY MAY MAY MAY JUN JUN JUN JUN JUN JUN	24 25 25 11 14 14 15 24 25 25 25 25 24 24 24 24 25 10
$\begin{array}{l} CT & + HURRY + HURRY \\ CT & = BLOCKED PEDAL \\ CT & = BLOCKED PEDAL \\ CT & = SURPRISE \\ CT & = TSURDS CONTROLS \\ CT & = TSURDS CONTROLS \\ CT & = TSURNED SATTERY \\ CT & = COMPCHOMP \\ CHOMP \\ CHOMP \\ CHOMP \\ CT & = COMPCHOMP \\ CT & = COMPC \\ CT \\ CT & = COMPC \\ CT \\ CT & = COMPC \\ CT \\ CT$	FEB FEB FEB APR APR APR APR APR MAY MAY MAY MAY MAY JUN JUN JUN JUN JUN JUN JUN JUN JUN	24 25 11 14 15 24 25 25 25 25 24 24 24 24 25 10 18
CT - HURRY HURRY HURRY CT - BLOCKED PEDAL CT - BANG BANG TT - F-4 TURBINE CT - SURPRISE CT - SURPRISE CT - F-8 FOD CT - SET THE BRAKES CT - T-BIRDS CONTROLS CT - F-4 HOT SECTION PROBLEMS CT - CHOMP CHOMP CHOMP CT - BURNED BATTERY CT - F-4 THROTTLE LINKAGE CT - FOR WANT OF A PIN CT - FANELS AGAIN CT - C-7 OVERBOOST CT - FOR WANT OF A PIN CT - HOW NOT TO BE HELPFUL TT - F-4 GANOPY CT - RF-4 BENT FLAPS CT - SECURE THEM CT - C-100 CONTROLS	FEB FEB FEB APR APR APR APR APR MAY MAY MAY MAY MAY JUN JUN JUN JUN JUN JUN JUN JUN JUN JUN	24 25 11 14 14 15 25 25 25 24 24 24 25 25 24 24 25 10 18 18
CT - HURRY HURRY HURRY CT - BLOCKED PEDAL CT - BANG BANG TT - F-4 TURBINE CT - SURPRISE CT - SET THE BRAKES CT - T-BIRDS CONTROLS CT - T-BIRDS CONTROLS CT - F-4 HOT SECTION PROBLEMS CT - CHOMP CHOMP CT - BURNED BATTERY CT - F-4 THROTTLE LINKAGE CT - FOR WANT OF A PIN CT - FANELS AGAIN CT - C-7 OVERBOOST CT - FAWLS AGAIN CT - C7 OVERBOOST CT - FAUELS AGAIN CT - FA BENT FLAPS CT - FA BENT FLAPS CT - SECURE THEM CT - C-130 CONTROLS CT - TWO WRONGS DON'T MAKE IT RIGHT	FEB FEB FEB APR APR APR APR APR APR MAY MAY MAY MAY MAY MAY JUN JUN JUN JUN JUN JUN JUN JUN JU/AUG JU/AUG JU/AUG JU/AUG	24 26 25 11 14 14 15 25 25 25 25 24 24 24 24 24 24 25 10 18 18 18 19
CT - HURRY HURRY HURRY CT - BLOCKED PEDAL CT - BANG BANG TT - F-4 TURBINE CT - SURPRISE CT - F4 FOD CT - SET THE BRAKES CT - T-BIDS CONTROLS CT - F4 HOT SECTION PROBLEMS CT - CHOMP CHOMP CHOMP CT - BURNED BATTERY CT - F4 THROTTLE LINKAGE CT - F0 WANT OF A PIN CT - PANELS AGAIN CT - F0 WANT OF A PIN CT - HOW NOT TO BE HELPFUL TT - F4 GENT FLAPS CT - SECURE THEM CT - FOXED BY LOX CT - FOXED BY LOX	FEB FEB FEB APR APR APR APR APR APR MAY MAY MAY MAY MAY JUN JUN JUN JUN JUN JUN JUN JUN JUN JUN	24 26 25 11 14 14 15 25 25 25 24 24 24 24 25 10 18 18 18 19 22 22
CT - HURRY HURRY HURRY CT - BLOCKED PEDAL CT - BANG BANG TT - F-4 TURBINE CT - SURPRISE CT - F4 FOD CT - SET THE BRAKES CT - T-BIRDS CONTROLS CT - F4 HOT SECTION PROBLEMS CT - CHOMP CHOMP CHOMP CT - BURNED BATTERY CT - FA THROTTLE LINKAGE CT - FOR WANT OF A PIN CT - FANELS AGAIN CT - C-7 OVERBOOST CT - FOR WANT OF A PIN CT - FA ENT FLAPS CT - FA ENT FLAPS CT - SECURE THEM CT - C-130 CCNTROLS CT - FOXE BON LOX CT - SIGHTLESS WINDOW CT - WIND FOX BOMED?	FEB FEB FEB APR APR APR APR APR MAY MAY MAY MAY JUN JUN JUN JUN JUN JUN JUN JUN JUN JUN	24 25 25 11 14 14 15 25 25 25 24 24 24 25 25 24 24 24 25 10 18 18 18 18 19 22 22 23
CT - HURRY HURRY HURRY CT - BLOCKED PEDAL CT - BANG BANG TT - F-4 TURBINE CT - SURPRISE CT - F-4 FOD CT - SET THE BRAKES CT - T-BIDS CONTROLS CT - F-4 HOT SECTION PROBLEMS CT - CHOMP CHOMP CHOMP CT - BURNED BATTERY CT - F-4 THROTTLE LINKAGE CT - FOR WANT OF A PIN CT - FANKLS AGAIN CT - C7 OVERBOOST CT - FOR WANT OF A PIN CT - HOW NOT TO BE HELPFUL TT - F-4 CANOPY CT - RF-4 BENT FLAPS CT - SECURE THEM CT - C130 CONTROLS CT - C130 CONTROLS CT - FOXE DS LOX CT - FOXE DS LOX CT - CPI CANOPY CT - FOXE DS LOX CT - CNO WRONGS DON'T MAKE IT RIGHT CT - FOXE DS LOX CT - CPI CT - CPI CT - CPI CT - CPI CT - CPI CT - CPI CT - CPI	FEB FEB FEB APR APR APR APR APR APR MAY MAY MAY MAY MAY JUN JUN JUN JUN JUN JUN JUN JUN JUN JUN	24 26 25 11 14 14 15 25 25 25 24 24 24 24 25 10 18 18 18 19 22 22
CT - HURRY HURRY HURRY CT - BLOCKED PEDAL CT - BANG BANG TT - F-4 TURBINE CT - SURPRISE CT - F-4 FOD CT - SURPRISE CT - F-4 HOT SECTION PROBLEMS CT - F-4 HOT SECTION PROBLEMS CT - CHON CHOMP CHOMP CT - BURNED BATTERY CT - F-4 THROTTLE LINKAGE CT - FOR WANT OF A PIN CT - FOR WANT OF A PIN CT - CF OVERBOOST CT - FOR WANT OF A PIN CT - FOR WANT OF A MIN CT - FOR WANT OF A MIN CT - SUBCHETHEM CT - C-130 CONTROLS CT - WOW MONGS DON'T MAKE IT RIGHT CT - FOR BOMBED? CT - CPI CT - TECH DATA CT - FOR WULA FOR AN ACCIDENT	FEB FEB FEB FEB APR APR APR APR APR MAY MAY MAY MAY MAY JUN JUN JUN JUN JUN JUN JUN JUN JUN JUN	24 25 25 11 14 14 15 25 25 25 25 25 25 25 25 25 25 25 25 25
CT - HURRY HURRY HURRY CT - BLOCKED PEDAL CT - BANG BANG TT - F-4 TURBINE CT - SURPRISE CT - F-4 FOD CT - SET THE BRAKES CT - T-BIDS CONTROLS CT - F-4 HOT SECTION PROBLEMS CT - CHOMP CHOMP CHOMP CT - BURNED BATTERY CT - F-4 THROTTLE LINKAGE CT - FOR WANT OF A PIN CT - FANKLS AGAIN CT - C7 OVERBOOST CT - FOR WANT OF A PIN CT - HOW NOT TO BE HELPFUL TT - F-4 CANOPY CT - RF-4 BENT FLAPS CT - SECURE THEM CT - C130 CONTROLS CT - C130 CONTROLS CT - FOXE DS LOX CT - FOXE DS LOX CT - CPI CANOPY CT - FOXE DS LOX CT - CNO WRONGS DON'T MAKE IT RIGHT CT - FOXE DS LOX CT - CPI CT - CPI CT - CPI CT - CPI CT - CPI CT - CPI CT - CPI	FEB FEB FEB APR APR APR APR APR APR MAY MAY MAY MAY MAY MAY JUN JUN JUN JUN JUN JUN JUN JUN JUN JUN	24 25 25 11 14 14 15 24 25 25 24 24 25 25 24 24 24 25 25 24 24 25 22 23 10 18 18 19 22 23 20 20
CT - HURRY HURRY HURRY CT - BLOCKED PEDAL CT - BANG BANG TT - F-4 TURBINE CT - SURPRISE CT - F-4 FOD CT - SET THE BRAKES CT - T-BIRDS CONTROLS CT - F-4 HOT SECTION PROBLEMS CT - F-4 HOT SECTION PROBLEMS CT - FONW CHOMP CHOMP CT - BURNED BATTERY CT - F-4 THROTTLE LINKAGE CT - FOR WANT OF A PIN CT - FOR WANT OF A NO CT - FOR WANT OF A PIN CT - LUGS CT - LUGS CT - LUGS CT - LUGS AGAIN	FEB FEB FEB FEB APR APR APR APR APR MAY MAY MAY MAY MAY JUN JUN JUN JUN JUN JUN JUN JUN JUN JUN	24 25 25 11 14 14 15 24 25 25 25 24 24 24 25 10 18 18 19 22 23 20 0 20 20 20 20 20 20 20 20 20 20 5 25 2
CT - HURRY HURRY HURRY CT - BLOCKED PEDAL CT - BLOCKED PEDAL CT - BLOCKED PEDAL CT - SURPRISE CT - F4 FOD CT - SURPRISE CT - F4 FOD CT - SET THE BRAKES CT - T-BIDS CONTROLS CT - F4 HOT SECTION PROBLEMS CT - CHOMP CHOMP CHOMP CT - BURNED BATTERY CT - F4 THROTTLE LINKAGE CT - F0R WANT OF A PIN CT - ULGS CT - LUGS CT - LUGS AGAIN CT - WHO'S BOMBED TO THE BOOK?	FEB FEB FEB FEB APR APR APR APR APR MAY MAY MAY MAY JUN JUN JUN JUN JUN JUN JUN JUN JUN JUN	24 25 25 11 14 14 15 24 25 25 25 24 4 24 25 10 18 18 18 19 22 22 32 00 20 20 4 14 14
CT - HURRY HURRY HURRY CT - BLOCKED PEDAL CT - BANG BANG TT - F-4 TURBINE CT - SURPRISE CT - SURPRISE CT - F-4 FOD CT - SET THE BRAKES CT - T-BIDS CONTROLS CT - F-4 HOT SECTION PROBLEMS CT - CHOMP CHOMP CHOMP CT - BURNED BATTERY CT - F-4 THROTTLE LINKAGE CT - FOR WANT OF A PIN CT - FAWANT OF A PIN CT - FOR WANT OF A PIN CT - FA CANOPY CT - RF-4 BENT FLAPS CT - SECURE THEM CT - TWO WRONGS DON'T MAKE IT RIGHT CT - FOXED BY LOX CT - SIGHTLESS WINDOW CT - WHO'S BOMBED? CT - TECH DATA CT - FORMULA FOR AN ACCIDENT CT - LUGS CT - LUGS CT - WHAT HAPPENED TO THE BOOK? TT - AN OPEN COCKPIT - AND NO SCARF CT - AN OPEN COCKPIT - AND NO SCARF	FEB FEB FEB FEB APR APR APR APR APR APR MAY MAY MAY MAY MAY MAY JUN JUN JUN JUN JUN JUN JUN JUN JUN JUN	24 25 25 11 14 14 15 24 25 25 25 24 24 24 25 10 18 18 19 22 23 20 20 20 14 14 15 25 26 26 26 26 27 20 20 20 20 20 20 20 20 20 20 20 20 20
CT - HURRY HURRY HURRY CT - BLOCKED PEDAL CT - BANG BANG TT - F-4 TURBINE CT - F-4 TURBINE CT - F-4 FOD CT - SURPRISE CT - F-4 HOT SECTION PROBLEMS CT - F-4 HOT SECTION PROBLEMS CT - F-4 HOT SECTION PROBLEMS CT - F-4 THROTTLE LINKAGE CT - FOR WANT OF A PIN CT - FOR WONG SONT CT - FOR WORD SECONT CT - SECURE THEM CT - C-130 CONTROLS CT - SECURE THEM CT - FORED BY LOX CT - SUGHTLESS WINDOW CT - WHO'S BOMBED? CT - CPI CT - FORMULA FOR AN ACCIDENT CT - CHECKLIST AGAIN CT - CHECKLIST AGAIN CT - WHO PIN TO THE BOOK? TT - AN OPEN COCKPIT - AND NO SCARF CT - IT'LL GIVE YOU THE JITTERS CT - NO WENGELED TO THE BOOK? TT - AN OPEN COCKPIT - AND NO SCARF	FEB FEB FEB FEB APR APR APR APR APR MAY MAY MAY MAY MAY JUN JUN JUN JUN JUN JUN JUN JUN JUN JUN	24 25 25 11 14 14 15 24 25 25 25 24 4 24 25 10 18 18 18 19 22 22 30 00 20 14 14 14 15 25 8 9
CT - HURRY HURRY HURRY CT - BLOCKED PEDAL CT - BANG BANG TT - F-4 TURBINE CT - SURPRISE CT - SURPRISE CT - F-4 FOD CT - SET THE BRAKES CT - T-BIDS CONTROLS CT - F-4 HOT SECTION PROBLEMS CT - CHOMP CHOMP CHOMP CT - BURNED BATTERY CT - F-4 THROTTLE LINKAGE CT - FOR WANT OF A PIN CT - FAWANT OF A PIN CT - FOR WANT OF A PIN CT - FA CANOPY CT - RF-4 BENT FLAPS CT - SECURE THEM CT - TWO WRONGS DON'T MAKE IT RIGHT CT - FOXED BY LOX CT - SIGHTLESS WINDOW CT - WHO'S BOMBED? CT - TECH DATA CT - FORMULA FOR AN ACCIDENT CT - LUGS CT - LUGS CT - WHAT HAPPENED TO THE BOOK? TT - AN OPEN COCKPIT - AND NO SCARF CT - AN OPEN COCKPIT - AND NO SCARF	FEB FEB FEB FEB APR APR APR APR APR APR MAY MAY MAY MAY MAY MAY JUN JUN JUN JUN JUN JUN JUN JUN JUN JUN	24 25 25 11 14 14 15 24 25 25 25 24 24 24 25 10 18 18 19 22 23 20 20 20 14 14 15 25 26 26 26 26 27 20 20 20 20 20 20 20 20 20 20 20 20 20
CT - HURRY HURRY HURRY CT - BLOCKED PEDAL CT - BLOCKED PEDAL CT - SURPRISE CT - F4 TURBINE CT - SURPRISE CT - F4 F6D CT - SET THE BRAKES CT - T-BIRDS CONTROLS CT - F4 HOT SECTION PROBLEMS CT - F0R WANT OF A DIN CT - BURNED BATTERY CT - F4 THROTTLE LINKAGE CT - F0R WANT OF A PIN CT - PANELS AGAIN CT - CF0 WANT OF A PIN CT - F0R WANT OF A NACLI CT - SIGHTLESS WINDOW CT - WHAT HAPPENED TO THE BOOK? CT - CHECKLIST AGAIN CT - CHECKLIST AGAIN CT - CHECKLIST AGAIN CT - MIAT HAPPENED TO THE BOOK? CT - AN OPEN COCKPIT - AND NO SCARF CT - IT'LL GIVE YOU THE JITTERS CT - AS INGELETOOTH SABRE CT - A7 OLL CONTROLEX	FEB FEB FEB FEB APR APR APR APR APR MAY MAY MAY MAY JUN JUN JUN JUN JUN JUN JUN JUN JUN JUN	24 25 25 11 14 14 15 24 25 25 25 24 24 24 25 10 18 18 19 12 22 20 20 20 20 20 14 14 15 5 8 9 9
CT - HURRY HURRY HURRY CT - BLOCKED PEDAL CT - BLOCKED PEDAL CT - SURPRISE CT - F4 TURBINE CT - F4 F4 F0D CT - SET THE BRAKES CT - F4 HOT SECTION PROBLEMS CT - F4 HOT SECTION PROBLEMS CT - F4 THOT FLE LINKAGE CT - F0R WANT OF A PIN CT - F4 THROTTLE LINKAGE CT - F0R WANT OF A PIN CT - F0R WONGS BONT MAKE IT RIGHT CT - SECURE THEM CT - SECURE THEM CT - GNORED SON'T MAKE IT RIGHT CT - F0R WORONGS DON'T MAKE IT RIGHT CT - F0R WORONGS DON'T MAKE IT RIGHT CT - F0R WANT OF A PIN ACCIDENT CT - WIGN BOMBED? CT - WIGN BOMBED? CT - ULGS AGAIN CT - CHECKLIST AGAIN CT - CHECKLIST AGAIN CT - WHEN HAPPENED TO THE BOOK? TT - AN OPEN COCKPIT - AND NO SCARF CT - I'LL GIVE YOU THE JITTERS CT - AJ OIL CONTROLEX MATERIEL FAILURE	FEB FEB FEB FEB APR APR APR APR MAY MAY MAY MAY MAY MAY MAY JUN JUN JUN JUN JUN JUN JUN JUN JUN JUN	24 25 25 11 14 14 15 24 25 25 25 24 24 24 26 10 18 18 18 19 22 23 20 0 20 14 14 14 15 25 8 9 9 9 19
CT - HURRY HURRY HURRY CT - BLOCKED PEDAL CT - BLOCKED PEDAL CT - SURPRISE CT - F4 TURBINE CT - SURPRISE CT - F4 F6D CT - SET THE BRAKES CT - T-BIRDS CONTROLS CT - F4 HOT SECTION PROBLEMS CT - F0R WANT OF A DIN CT - BURNED BATTERY CT - F4 THROTTLE LINKAGE CT - F0R WANT OF A PIN CT - PANELS AGAIN CT - CF0 WANT OF A PIN CT - F0R WANT OF A PIN CT - CT - CNE DE THEM CT - C-130 CONTROLS CT - SIGHTLESS WINDOW CT - WHAT HAPPENED TO THE BOOK? CT - CHECKLIST AGAIN CT - CHECKLIST AGAIN CT - WHAT HAPPENED TO THE BOOK? CT - AN OPEN COCKPIT - AND NO SCARF CT - IT'LL GIVE YOU THE JITTERS CT - AS OIL CONTROLEX	FEB FEB FEB FEB APR APR APR APR APR MAY MAY MAY MAY JUN JUN JUN JUN JUN JUN JUN JUN JUN JUN	24 25 25 11 14 14 15 24 25 25 25 24 24 24 25 10 18 18 19 12 22 20 20 20 20 20 14 14 15 5 8 9 9
CT - HURRY HURRY HURRY CT - BLOCKED PEDAL CT - BLOCKED PEDAL CT - SURPRISE CT - F4 TURBINE CT - F4 F4 F0D CT - SET THE BRAKES CT - F4 HOT SECTION PROBLEMS CT - F4 HOT SECTION PROBLEMS CT - F4 THOT FLE LINKAGE CT - F0R WANT OF A PIN CT - F4 THROTTLE LINKAGE CT - F0R WANT OF A PIN CT - F0R WONGS BONT MAKE IT RIGHT CT - SECURE THEM CT - SECURE THEM CT - GNORED SON'T MAKE IT RIGHT CT - F0R WORONGS DON'T MAKE IT RIGHT CT - F0R WORONGS DON'T MAKE IT RIGHT CT - F0R WANT OF A PIN ACCIDENT CT - WIGN BOMBED? CT - WIGN BOMBED? CT - ULGS AGAIN CT - CHECKLIST AGAIN CT - CHECKLIST AGAIN CT - WHEN HAPPENED TO THE BOOK? TT - AN OPEN COCKPIT - AND NO SCARF CT - I'LL GIVE YOU THE JITTERS CT - AJ OIL CONTROLEX MATERIEL FAILURE	FEB FEB FEB FEB APR APR APR APR MAY MAY MAY MAY MAY MAY MAY JUN JUN JUN JUN JUN JUN JUN JUN JUN JUN	24 25 25 11 14 14 15 24 25 25 25 24 24 24 26 10 18 18 18 19 22 23 20 0 20 14 14 14 15 25 8 9 9 9 19
CT - HURRY HURRY HURRY CT - BLOCKED PEDAL CT - BLOCKED PEDAL CT - SURPRISE CT - F4 TURBINE CT - F4 F4 F0D CT - SET THE BRAKES CT - F4 HOT SECTION PROBLEMS CT - F4 HOT SECTION PROBLEMS CT - F4 THOT FLE LINKAGE CT - F0R WANT OF A PIN CT - F4 THROTTLE LINKAGE CT - F0R WANT OF A PIN CT - F0R WONGS BONT MAKE IT RIGHT CT - SECURE THEM CT - SECURE THEM CT - GNORED SON'T MAKE IT RIGHT CT - F0R WORONGS DON'T MAKE IT RIGHT CT - F0R WORONGS DON'T MAKE IT RIGHT CT - F0R WANT OF A PIN ACCIDENT CT - WIGN BOMBED? CT - WIGN BOMBED? CT - ULGS AGAIN CT - CHECKLIST AGAIN CT - CHECKLIST AGAIN CT - WHEN HAPPENED TO THE BOOK? TT - AN OPEN COCKPIT - AND NO SCARF CT - I'LL GIVE YOU THE JITTERS CT - AJ OIL CONTROLEX MATERIEL FAILURE	FEB FEB FEB FEB APR APR APR APR MAY MAY MAY MAY MAY MAY MAY JUN JUN JUN JUN JUN JUN JUN JUN JUN JUN	24 25 25 11 14 14 15 24 25 25 25 24 24 24 26 10 18 18 18 19 22 23 20 0 20 14 14 14 15 25 8 9 9 9 19
CT - HURRY HURRY HURRY CT - BLOCKED PEDAL CT - BLOCKED PEDAL CT - SURPRISE CT - SURPRISE CT - SURPRISE CT - SURPRISE CT - SET THE BRAKES CT - THIBDS CONTROLS CT - FA HOT SECTION PROBLEMS CT - FA HROTTLE LINKAGE CT - FOR WANT OF A PIN CT - FA THROTTLE LINKAGE CT - FOR WANT OF A PIN CT - CT OVERBOOST CT - FOR WANT OF A PIN CT - CT OVERBOOST CT - FOR WANT OF A PIN CT - CT OVERBOOST CT - FOR WANT OF A PIN CT - CT OVERBOOST CT - FOR WANT OF A PIN CT - FOR WANT OF A NACLIDENT CT - SIGHTLESS WINDOW CT - WHAT HAPPENED TO THE BOOK? TT - AN OPEN COCKPIT - AND NO SCARF CT - IT'LL GIVE YOU THE JITTERS CT - A7 OIL CT - A7 OIL CT - THE NOSE KNOWS	FEB FEB FEB FEB APR APR APR APR MAY MAY MAY MAY MAY MAY JUN JUN JUN JUN JUN JUN JUN JUN JUN JUN	24 25 25 11 14 14 15 24 25 25 25 24 24 24 25 10 18 18 19 22 23 20 20 20 20 14 14 15 25 9 9 9 9 9 9 9 9
 CT - HURRY HURRY HURRY CT - BLOCKED PEDAL CT - BLOCKED PEDAL CT - SURPRISE CT - SURPRISE CT - SURPRISE CT - FA FOD CT - SET THE BRAKES CT - HOT SECTION PROBLEMS CT - FA HURTYLE LINKAGE CT - FOR WANT OF A PIN CT - GU CONT TOLS CT - SIGHTLESS WINDOW CT - WORONGS DON'T MAKE IT RIGHT CT - FORMULA FOR AN ACCIDENT CT - FORMULA FOR AN ACCIDENT CT - FORMULA FOR AN ACCIDENT CT - GU COCKPIT - AND NO SCARF CT - CHECKLIST AGAIN CT - MOPEN COCKPIT - AND NO SCARF CT - TITLL GIVE YOU THE JITTERS CT - AT OIL CT - AT OIL CT - AN OFEN COCKPIT - AND NO SCARF CT - AT OIL CT - THE NOSE KNOWS MEDARE	FEB FEB FEB APR APR APR APR APR MAY MAY MAY MAY MAY MAY JUN JUN JUN JUN JUN JUN JUN JUN JUN JUN	24 25 25 11 14 14 15 24 25 25 24 24 24 26 25 25 24 24 24 26 10 18 18 18 19 22 22 32 00 20 14 14 15 25 8 9 9 9 19

MISSILE/EXPLOSIVES SAFETY		
CT - EXPLOSIVE BOLTS BITE	MAR	~
A BOMB BY ANY OTHER NAME CT WHO'S BOMBED	JU/AUG SEP	1 1
CT - GANBLER'S REGRET WEAPONS WORDS	DEC	27
OPERATIONS		
SUNDAY DRIVER	JAN	6
THE SINK HOLE MORE ON TURNING THE F-4	NAL	16
TT CARBURETOR ICE THE LOSERS	JAN	22 28
PERSONAL EQUIPMENT		
TT – F-4 CIRCUS TT – AND HERE'S THE KICKER	FEB DEC	15 23
PREFLIGHT		
CT – JAWS	MAR	27
PROFESSIONALISM		
ACHALLENGE	JAN	3
TT – SAFETY THRU EXAMPLE BREAKTHROUGH	JAN	22 16
A TIME OF CHANGE	APR	3
SEAT BELTS		
THE THINKER	JAN	BC
SAFETY AT STAKE FOR STEAKS SEAT BELTS UPPING THE ODDS FOR LIVING	JU/AUG SEP	8
SECOND LOOK		
FUEL AND BARRIERS	JAN	14
SURVIVAL/RESCUE		
FOLLOW-UP ON SURVIVAL	MAR	12
TT – CHECK THOSE KITS SO YOU WANT TO FLY IN A THUNDERSTORM?	APR	10 4
HELICOPTER RESCUE LIMITATIONS WINTER SURVIVAL	MAY	28 22
		-
TAKEOFE		1
TAKEOFF	CER	0
TT – WINDMILLING WANDERER TT – IF AT FIRST YOU DON'T SUCCEED	FEB	
TT – WINDMILLING WANDERER TT – IF AT FIRST YOU DON'T SUCCEED TT – BLASTED CANOPYI		24
TT – WINDMILLING WANDERER TT – IF AT FIRST YOU DON'T SUCCEED TT – BLASTED CANOPYI TAXIING	MAY NOV	
TT – WINDMILLING WANDERER TT – IF AT FIRST YOU DON'T SUCCEED TT – BLASTED CANOPYI	MAY	18 10
TT – WINDMILLING WANDERER TT – IF AT FIRST YOU DON'T SUCCEED TT – BLASTED CANOPYI TAXING TAXI ACCIDENTS AGAIN!	MAY NOV	18
TT – WINDMILLING WANDERER TT – IF AT FIRST YOU DON'T SUCCEED TT – BLASTED CANOPY! TAXING TAXI ACCIDENTSAGAIN! TT – TAXI ACCIDENT	MAY NOV MAR APR OCT	18 10 13
TT – WINDMILLING WANDERER TT – IF AT FIRST YOU DON'T SUCCEED TT – BLASTED CANOPYI TAXING TAXI ACCIDENTS AGAINI TT – TAXI ACCIDENT TT – TAXI TROUBLE	MAY NOV MAR APR	18 10
TT – WINDMILLING WANDERER TT – IF AT FIRST YOU DON'T SUCCEED TT – BLASTED CANOPYI TAXING TAXI ACCIDENTS AGAIN! TT – TAXI ACCIDENT TT – TAXI TROUBLE TIRES	MAY NOV MAR APR OCT JAN	18 10 13 26
TT – WINDMILLING WANDERER TT – IF AT FIRST YOU DON'T SUCCEED TT – BLASTED CANOPY! TAXING TAXI ACCIDENTS AGAIN! TT – TAXI ACCIDENT TT – TAXI TROUBLE TIRES CT – PUTTING ON THE PRESSURE	MAY NOV MAR APR OCT	18 10 13
TT - WINDMILLING WANDERER TT - IF AT FIRST YOU DON'T SUCCEED TT - BLASTED CANOPYI TAXING TAXI ACCIDENTS AGAIN! TT - TAXI ACCIDENT TT - TAXI ACCIDENT TT - TAXI TROUBLE TIRES CT - PUTTING ON THE PRESSURE TOWING TT - PILOT ERROR7	MAY NOV MAR APR OCT JAN JAN	18 10 13 26 23
TT - WINDMILLING WANDERER TT - IF AT FIRST YOU DON'T SUCCEED TT - BLASTED CANOPYI TAXING TAXI ACCIDENTS AGAIN! TT - TAXI ACCIDENT TT - TAXI ACCIDENT TT - TAXI TROUBLE TIRES CT - PUTTING ON THE PRESSURE TOWING TT - PILOT ERROR? TT - TIGHT PARKING WATER SAFETY KILLER WAVES	MAY NOV MAR APR JAN MAY APR	18 10 13 26 23 11 24
TT - WINDMILLING WANDERER TT - IF AT FIRST YOU DON'T SUCCEED TT - BLASTED CANOPYI TAXING TAXI ACCIDENTS AGAINI TT - TAXI ACCIDENT TT - TAXI ACCIDENT TT - TAXI TROUBLE TIRES CT - PUTTING ON THE PRESSURE TOWING TT - PILOT ERROR? TT - TIGHT PARKING WATER SAFETY	MAY VOV PRA PR TOO TOO JAN MAY	18 10 13 26 23 11
TT - WINDMILLING WANDERER TT - IF AT FIRST YOU DON'T SUCCEED TT - BLASTED CANOPYI TAXING TAXI ACCIDENTS AGAINI TT - TAXI ACCIDENT TT - TAXI ACCIDENT TT - TAXI TROUBLE TIRES CT - PUTTING ON THE PRESSURE TOWING TT - PILOT ERROR? TT - TIGHT PARKING WATER SAFETY KILLER WAVES JUST BECAUSE IT'S SUMMER	MAY NOV APR APR JAN MAY APR MAY	18 10 13 26 23 11 24 12
TT - WINDMILLING WANDERER TT - IF AT FIRST YOU DON'T SUCCEED TT - BLASTED CANOPYI TAXING TAXI ACCIDENTS AGAIN! TT - TAXI ACCIDENT TT - TAXI ACCIDENT TT - TAXI TROUBLE TIRES CT - PUTTING ON THE PRESSURE TOWING TT - PILOT ERROR? TT - TIGHT PARKING WATER SAFETY KILLER WAVES JUST BECAUSE IT'S SUMMER DROWNPROOFING	MAY NOV MAR APR OCT JAN JAN MAY JU/AUG APR	18 10 13 26 23 11 24 12 14
TT - WINDMILLING WANDERER TT - IF AT FIRST YOU DON'T SUCCEED TT - BLASTED CANOPYI TAXING TAXI ACCIDENTS AGAIN! TT - TAXI ACCIDENT TT - TAXI ACCIDENT TT - TAXI TROUBLE TIRES CT - PUTTING ON THE PRESSURE TOWING TT - PILOT ERROR? TT - PILOT ERROR? TT - TIGHT PARKING WATER SAFETY KILLER WAVES JUST BECAUSE IT'S SUMMER DROWNPROOFING WEATHER SUMMER FLYING SO YOU WANT TO FLY IN A THUNDERSTORM?	MAY VOV AR APR JAN JAN MAY JU/AUG APR MAY	18 10 13 26 23 11 24 12 14 14
TT - WINDMILLING WANDERER TT - IF AT FIRST YOU DON'T SUCCEED TT - BLASTED CANOPYI TAXING TAXI ACCIDENTS AGAINI TT - TAXI ACCIDENT TT - TAXI ACCIDENT TT - TAXI TROUBLE TIRES CT - PUTTING ON THE PRESSURE TOWING TT - PILOT ERROR? TT - TIGHT PARKING WATER SAFETY KILLER WAVES JUST BECAUSE IT'S SUMMER DROWNPROOFING WEATHER SUMMER FLYING SO YOU WANT TO FLY IN A THUNDERSTORM ? JUST BECAUSE IT'S SUMMER JUST BECAUSE IT'S SUMMER DROWNPROOFING	MAY NOV MAR APR OCT JAN JAN MAY JU/AUG APR MAY JUN	18 10 13 26 23 11 24 12 14 12 14
TT - WINDMILLING WANDERER TT - IF AT FIRST YOU DON'T SUCCEED TT - BLASTED CANOPYI TAXING TAXI ACCIDENTS AGAIN! TT - TAXI ACCIDENT TT - TAXI ACCIDENT TT - TAXI TROUBLE TIRES CT - PUTTING ON THE PRESSURE TOWING TT - PILOT ERROR? TT - TIGHT PARKING WATER SAFETY KILLER WAVES JUST BECAUSE IT'S SUMMER DROWNPROOFING WEATHER SUMMER FLYING SO YOU WANT TO FLY IN A THUNDERSTORM ? JUST BECAUSE IT'S SUMMER THE GREATEST STORM ON EARTH A WEATHER OBSERVATION	MAY NOV MAR APR JAN JAN MAY MAY MAY MAY	18 10 13 26 23 11 24 12 14 14
TT - WINDMILLING WANDERER TT - IF AT FIRST YOU DON'T SUCCEED TT - BLASTED CANOPYI TAXING TAXI ACCIDENTS AGAIN! TT - TAXI ACCIDENT TT - TAXI ACCIDENT TT - TAXI TROUBLE TIRES CT - PUTTING ON THE PRESSURE TOWING TT - PILOT ERROR? TT - PILOT ERROR? TT - TIGHT PARKING WATER SAFETY KILLER WAVES JUST BECAUSE IT'S SUMMER DROWNPROOFING WEATHER SUMMER FLYING SO YOU WANT TO FLY IN A THUNDERSTORM ? JUST BECAUSE IT'S SUMMER DROWNPROOFING ON EARTH A WEATHER OBSERVATION BEWARE THE SUM	MAY NOV MAR APR OCT JAN MAY JU/AUG APR MAY JU/AUG JU/AUG JU/AUG SEP	18 10 13 26 23 11 14 12 14 12 14 12 26 22 28 13
TT - WINDMILLING WANDERER TT - IF AT FIRST YOU DON'T SUCCEED TT - BLASTED CANOPYI TAXING TAXI ACCIDENTS AGAINI TT - TAXI ACCIDENT TT - TAXI ACCIDENT TT - TAXI TROUBLE TIRES CT - PUTTING ON THE PRESSURE TOWING TT - PILOT ERROR? TT - TIGHT PARKING WATER SAFETY KILLER WAVES JUST BECAUSE IT'S SUMMER DROWNPROOFING WEATHER SUMMER FLYING SO YOU WANT TO FLY IN A THUNDERSTORM ? JUST BECAUSE IT'S SUMMER THE GREATEST STOM ON EARTH A WEATHER OBSERVATION BEWARE THE SUM	MAY NOV MAR APR OCT JAN JAN MAY JU/AUG JU/AUG JU/AUG JU/AUG SEP SEP SEP	18 10 13 26 23 11 24 12 14 12 14 12 14 12 28 13 13 13
TT - WINDMILLING WANDERER TT - IF AT FIRST YOU DON'T SUCCEED TT - BLASTED CANOPYI TAXING TAXI ACCIDENTS AGAIN! TT - TAXI ACCIDENT TT - TAXI ACCIDENT TT - TAXI TROUBLE TIRES CT - PUTTING ON THE PRESSURE TOWING TT - PILOT ERROR? TT - TIGHT PARKING WATER SAFETY KILLER WAVES JUST BECAUSE IT'S SUMMER DROWNPROOFING WEATHER SUMMER FLYING SO YOU WANT TO FLY IN A THUNDERSTORM ? JUST BECAUSE IT'S SUMMER THE GREATEST STORM ON EARTH A WEATHER OBSERVATION BEWARE THE SUM TT - ROLBACK OR NOT? TT - SNEAK PREVIEW TT - I GOOFED FOR THE NORTH WIND DOTH BLOW	MAY NOV MAR APR OCT JAN MAY MAY MAY JU/AUG JU/AUG JU/AUG JU/AUG SEP SEP OCT	18 10 13 26 23 11 24 12 14 12 14 12 26 4 12 28 13 13
TT - WINDMILLING WANDERER TT - IF AT FIRST YOU DON'T SUCCEED TT - BLASTED CANOPYI TAXING TAXIACCIDENTSAGAIN! TT - TAXIACCIDENT TT - TAXIACCIDENT TT - TAXIACCIDENT TT - TAXITROUBLE TIRES CT - PUTTING ON THE PRESSURE TOWING TT - PILOT ERROR? TT - TIGHT PARKING WATER SAFETY KILLER WAVES JUST BECAUSE IT'S SUMMER DROWNPROOFING WEATHER SUMMER FLYING SO YOU WANT TO FLY IN A THUNDERSTORM? JUST BECAUSE IT'S SUMMER THE GREATEST STORM ON EARTH A WEATHER OBSERVATION BEWARE THE SUM TT - ROLLBACKOR NOT? TT - SNEAK PREVIEW TT - I GOOFED FOR THE NORTH WIND DOTH BLOW WINTER WEATHER	MAY NOV MAR APR OCT JAN MAY JU/AUG APR MAY JU/AUG JU/AUG JU/AUG SEP SEP SEP SEP SEP SEP CCT OCT	18 10 13 26 23 11 24 12 14 12 24 12 14 12 26 22 28 13 13 13 13 13 13 13 13 13 22
TT - WINDMILLING WANDERER TT - IF AT FIRST YOU DON'T SUCCEED TT - BLASTED CANOPYI TAXING TAXI ACCIDENTS AGAIN! TT - TAXI ACCIDENT TT - TAXI ACCIDENT TT - TAXI TROUBLE TIRES CT - PUTTING ON THE PRESSURE TOWING TT - PILOT ERROR? TT - TIGHT PARKING WATER SAFETY KILLER WAVES JUST BECAUSE IT'S SUMMER DROWNPROOFING WEATHER SUMMER FLYING SO YOU WANT TO FLY IN A THUNDERSTORM ? JUST BECAUSE IT'S SUMMER THE GREATEST STORM ON EARTH A WEATHER BOSERVATION BEWARE THE SUM TT - NOLLBACK OR NOT? TT - SNEAK PREVIEW TT - IGOFED FOR THE NORTH WIND DOTH BLOW WINTER WEATHER	MAY NOV MAR APR OCT JAN JAN MAY JU/AUG JU/AUG JU/AUG JU/AUG SEP SEP SEP SEP SEP SEP SEP SEP SEP SEP	18 10 13 26 23 11 24 12 14 12 14 12 28 13 13 13 13 13 13 13 10 22 27 28
TT - WINDMILLING WANDERER TT - IF AT FIRST YOU DON'T SUCCEED TT - BLASTED CANOPYI TAXING TAXIACCIDENTSAGAIN! TT - TAXIACCIDENT TT - TAXIACCIDENT TT - TAXIACCIDENT TT - TAXIACCIDENT TT - TAXIACCIDENT TT - TAXIACCIDENT TT - TIGNT BON THE PRESSURE TOWING TT - PILOT ERROR? TT - PILOT ERROR? TT - TIGHT PARKING WATER SAFETY KILLER WAVES JUST BECAUSE IT'S SUMMER DROWNPROOFING WEATHER SUMMER FLYING SO YOU WANT TO FLY IN A THUNDERSTORM ? JUST BECAUSE IT'S SUMMER THE GREATEST STORM ON EARTH A WEATHER BECAUSE IT'S SUMMER THE GREATEST STORM ON EARTH A WEATHER OBSERVATION BEWARE THE SUM TT - ROLEACKOR NOT? TT - SNEAK PREVIEW TT - I GOOFED FOR THE NORTH WIND DOTH BLOW WINTER SURVIVAL THE WINTER DRIVING SEASON THE COLD IS A SNAP FOR THE PREPARED TT - ALLSSON LEARNED	MAY NOV MAR APR OCT JAN JAN MAY MAY JU/AUG JU/AUG JU/AUG JU/AUG JU/AUG JU/AUG JU/AUG SEP SEP SEP OCT OCT OCT OCT OCT OCT	18 10 13 26 23 11 24 12 14 12 26 22 28 13 13 13 13 13 13 13 10 22 27 28 22
TT - WINDMILLING WANDERER TT - IF AT FIRST YOU DON'T SUCCEED TT - BLASTED CANOPYI TAXING TAXI ACCIDENTS AGAIN! TT - TAXI ACCIDENT TT - TAXI ACCIDENT TT - TAXI TROUBLE TIRES CT - PUTTING ON THE PRESSURE TOWING TT - PILOT ERROR? TT - TIGHT PARKING WATER SAFETY KILLER WAVES JUST BECAUSE IT'S SUMMER DROWNPROOFING WEATHER SUMMER FLYING SO YOU WANT TO FLY IN A THUNDERSTORM? JUST BECAUSE IT'S SUMMER THE GREATEST STORM ON EARTH A WEATHER OBSERVATION BEWARE THE SUM TT - ROLLBACK OR NOT? TT - SNEAK PREVIEW TT - IGOFED FOR THE NORTH WIND DOTH BLOW WINTER WEATHER WINTER WEATHER WINTER SURVIVAL THE WINTER DRIVING SEASON THE OD IS A SNAP FOR THE PREPARED	MAY NOV MAR APR OCT JAN JAN MAY JU/AUG JU/AUG JU/AUG JU/AUG SEP SEP SEP SEP SEP SEP SEP SEP SEP SEP	18 10 13 26 23 11 24 12 14 12 14 12 28 13 13 13 13 13 13 13 10 22 27 28
TT - WINDMILLING WANDERER TT - IF AT FIRST YOU DON'T SUCCEED TT - BLASTED CANOPYI TAXING TAXI ACCIDENTS AGAIN! TT - TAXI ACCIDENT TT - TAXI ACCIDENT TT - TAXI TROUBLE TIRES CT - PUTTING ON THE PRESSURE TOWING TT - PILOT ERROR? TT - TIGHT PARKING WATER SAFETY KILLER WAVES JUST BECAUSE IT'S SUMMER DROWNPROOFING WEATHER SUMMER FLYING SO YOU WANT TO FLY IN A THUNDERSTORM ? JUST BECAUSE IT'S SUMMER THE GREATEST STORM ON EARTH A WEATHER BOBSERVATION BEWARE THE SUM TT - ROLLBACK OR NOT? TT - SNCHAR PREVIEW TT - IGOOFED FOR THE NORTH WIND DOTH BLOW WINTER WEATHER WINTER WEATHER WINTER DRIVING SEASON THE COLD IS A SNAP FOR THE PREPARED TT - A LESSON LEARNED FOG KILLERS	MAY NOV MAR APR OCT JAN JAN MAY MAY JU/AUG SEP SEP OCT OCT OCT OCT NOV DEC DEC	18 10 13 26 23 11 24 12 14 12 24 12 14 12 26 22 8 13 13 13 13 13 13 3 10 22 27 28 22 24
TT - WINDMILLING WANDERER T - IF AT FIRST YOU DON'T SUCCEED TT - BLASTED CANOPYI TAXING TAXIACCIDENTSAGAIN! TT - TAXIACCIDENT TT - TIGNT PRESSURE TOWING TT - PILOT ERROR? TT - TIGHT PARKING WATER SAFETY KILLER WAVES JUST BECAUSE IT'S SUMMER DROWNPROFING WEATHER SUMMER FLYING SO YOU WANT TO FLY IN A THUNDERSTORM ? JUST BECAUSE IT'S SUMMER THE GREATEST STORM ON EARTH A WEATHER OBSERVATION BEWARE THE SUM TT - SOLBACKOR NOT? TT - SNEAK PREVIEW TT - IGOFED FOR THE NORTH WIND DOTH BLOW WINTER WEATHER WINTER DRIVING SEASON THE COLD IS A SNAP FOR THE PREPARED TT - A LESSON LEARNED FOG KILLERS THE LURE OF HOME ZARK AND TINK LOOK AT THE F-111	MAY NOV MAR APR OCT JAN JAN MAY MAY JU/AUG SEP SEP OCT OCT OCT OCT OCT NOV DEC DEC SEP	18 10 13 26 23 11 24 12 14 12 24 12 14 12 26 22 8 13 13 13 13 13 13 3 10 22 27 28 22 24
TT - WINDMILLING WANDERER T - IF AT FIRST YOU DON'T SUCCEED TT - BLASTED CANOPYI TAXING TAXIACCIDENTSAGAIN! TT - TAXI ACCIDENT TT - TAXI ACCIDENT TT - TAXI TROUBLE TIRES CT - PUTTING ON THE PRESSURE TOWING TT - PILOT ERROR? TT - TIGHT PARKING WATER SAFETY KILLER WAVES JUST BECAUSE IT'S SUMMER DROWNPROOFING WATHER SUMMER FLYING SO YOU WANT TO FLY IN A THUNDERSTORM? JUST BECAUSE IT'S SUMMER THE GREATEST STORM ON EARTH AWEATHER OBSERVATION BEWARE THE SUM TT - RUBACKOR NOT? TT - SNEAK PREVIEW TT - I GOOFED FOR THE NORTH WIND DOTH BLOW WINTER SURVIVAL THE WINTER DRIVING SEASON THE COLD IS A SNAP FOR THEP PREPARED TT - ALLSSON LEARNED FOG KILLERS THE LURE OF HOME ZARK AND TIK	MAY NOV MAR APR OCT JAN JAN MAY MAY MAY JU/AUG JU/AUG JU/AUG JU/AUG JU/AUG JU/AUG JU/AUG JU/AUG CT OCT OCT OCT OCT OCT OCT DEC DEC DEC	18 10 13 26 23 11 24 12 14 12 24 12 14 12 26 22 8 13 13 13 13 13 13 3 10 22 27 28 22 24

TAC TALLY AIRCRAFT ACCIDENT RATES

UNITS

* Estimated

MAJOR	ACCIDENT	RATE	COMP	RISON

	TAC		A	NG	AF	Res
	1971	1970	1971	1970	1971	1970
JAN	1.6	4.8	16.7	5.9	0	0
FEB	1.6	3.9	11.6	2.6	0	0
MAR	3.1	4.6	7.0	1.7	0	0
APR	2.7	4.9	4.9	2.4	0	0
MAY	2.5	6.2	5.7	3.6	0	0
JUN	2.6	5.5	6.9	3.6	0	0
JUL	2.9	5.1	7.1	6,1	0	0
AUG	2.7	5.0	7.8	6.9	2.7	0
SEP	3.2	4.7	7.4	6.6	2.4	0
1	3.2	4.5	6.7	6.8	2.1	0
NOV		4.6		6.7		0
DEC		4.6		6.6		0

	Thru	Oct	1	Thru	Oct
	1971	1970		1971	1970
9 A F	3.7	1.8	12 AF	1.9	7.1
1 TFW	6.3	6.2	23 TFW	0	4.7
4 TFW	0	0	27 TFW	5.3	8.3
31 TFW	10.3	4.9	49 TFW 347 TFW	0	11.6 N/A
33 TFW	0	0	355 TFW	0	N/A
354 TFW	4.7	0	474 TFW	0	0
4403 TFW	14.8	0	35 TFW	2.9	11.0
363 TRW	3.9	3.3	67 TRW	0	3.9
316 TAW	0	0	313 TAW	0	0
			314 TAW	0	0
317 TAW	0	0	516 TAW	0	0
68 TASG	0	0	58 TFTW 4453 CCTW 71 TASG	7.4 5.2 0	14.7 3.8 0
	TA	C SPECI	AL UNITS		
1 SOW	7.4	5.9	4409 SUPSQ	0	0
2 ADG	0	0	4410 SOTG	4.6	0
			4500 ABWG	0	0
57 FWW	6.1	0	4485 TTS	0	N/A

THRU

TAC SUMMARY

TAC SUMMARY	OCT 1971	THRU 1971	OCTOBER 1970
TOTAL ACCIDENTS	2	27	35
MAJOR	2	21	30
MINOR	0	6	5
AIRCREW FATALITIES	4	14	26
AIRCRAFT DESTROYED	2	17	27
TOTAL EJECTIONS	0	16	25
SUCCESSFUL EJECTIONS	0	16	19
PERCENT SUCCESSFUL	0	100	76

TAC ATTACK

