Interceptor



FOR PILOTS ONLY

se laike

MAY 1969

Interceptor volume number

spotlight

The truth barts only if it should

It Gen Arthur C. Anne Cal H. C. Cibron



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departments MEMO FROM THE CHIEF OF SAFETY

HOT UNE CHECK POINTS DOWN AND OUT SAFETY OFFICERS FIELD DESCRIPT THE WAY THE BALL BOUNCES

AETERBURNING special features EOR RILOTS ONLY BE PREPARED TO DIVE

> THERE'S NO US PERRIN: PATH TO PROFICIENCY FOUR-EYED AIR CREWS

THE NAME OF THE GAME IS MAXIMUM PERFORMANCE



sely his judgment and skill can are

memo

from the CHIEF OF SAFETY

"YOUR RESPONSIBILITY"

The "Introduction" in Flight Mensals, or Dash Ones if you will, contains some sexual strike and guidance that outher int to be overloaded in light of recent oversits. Of the form rador accidents ADC has experienced in far this three of them. In two of these, a contributing cause is listed as supervisory factor in that the Dash One contained insufficient guidance relative to seemal charge two space of an emergency percentage to bell flow type. The printary charge loss space of an emergency proceedure to bed flow type. The printary

One of these three could defininly here been entitled through the exercise of good judgment. Even though there were no guidelines enablished in the book, the perfect ofces make notes of the fact that "The means it is a post substitute for sound judgment. Leading substace, sound judgment must pervail. In this one a tisked was rejected for lack of proper speed during the necessarian deck, and without incredigation of the cause of the problem, a second tasked was atmosphere, and likewise abouted for the same reason. After the second was atmosphere, and likewise abouted for the same reason. After the second to the aircraft. The rouse of the errosens aircraft endant was a crack in the

Another secision involved Mergley's Lew wherein multiple energencies.

Another secision involved Mergley's Lew wherein multiple energencies are not deviting flight is night seather ended in disaster. It pointed up the net for administration and guidance correcting the loss of an engine and the additional energy of the Flight Manual emphatically shared by many, since the "Fereword" of the Flight Manual emphatically states that an error cannot be corrected unless the Flight Manual Manuace for

made aware of its existence. Cross members are responsible for recommending changes to the manual when the need becomes appeared. Failure of the flight control system, or a comparent thereof, caused the last bash of one of our fighters. We don't know as much about this accident as we'd like to at this writing, but again, attention has been focused on the ever-

important Dash One. The recommendation to change several steps to critical term in the energy-may procedures any or may not have effected the outcome of the content of the

Massaul Porjans, none them to the state of t

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-55 175 LINE



160 AND JUDOMANT. A Done pits in it is go to fall might before their. The EUT possis set at 600 degrees. He reclused the pure to belies 600 degrees and intuited beautiful. The EUT beautiful to the contract of the contract

with nylon descent.

We'd like to have a back for every pilot and airplane lost because of refusal to believe the gauges.

Nine out of ten may turn out to be false alarme, but
like Ramian Bouletts, the louded one can kill you.

WHENVILLTHEYEVERILLEARN?

LIGHTNING STRIKES AGAIN. Last year the cause of a major aiscraft accident was attributed to a discharge of Entraing which blinded the rilot during

is refuel after at fight. Here, wonther, edited to administ, more in metal instances, the direct wisse, and held that the sixend had eighted us on every considering the sixen and every say. Considering the sixen is every say. Considering the sixen is every say. Considering the sixen is every say. Recent experiences there shawe (so no curi-suszement) that the sixen is the sixen in the sixen is every sixen in the six sixen in the six sixen in the six sixen is sixen in the six sixen in the six sixen in the six

We view with skepticism the dissemination of this kind of information at face value. It could smallly the waters.

been supped by lightning and it's difficult to predict what in midstidults received me the Agent deal de-predict me has severity of the utility and treat deal de-predict me has severity of the utility and treat deal to it in a severity. With the eight condustant of circumstance, it's possible that one board per conduction for a conduction for the close to staffe two-forces and the conduction for the close to staffe two-forces and the conduction for the close to staffe two-forces and the conduction for the close to staffe two-forces and the conduction for the close to staffe two-forces and the conduction for the close to staffe two-forces and the conduction for the close to staffe two-forces and the conduction for the close to staffe two-forces and the conduction for the close to staffe two-forces and the conduction for the close to staffe two-forces and the conduction for the close to staffe two-forces and the conduction for the close to staffe two-forces and the conduction for the close to staffe two-forces and the conduction forces are conducted as a section of the conduction forces and the conduction forces are conducted as a section of the conduction forces and the conduction forces are conducted as a section of the conduction forces are conducted as a section of the conduction forces are conducted as a section of the conduction forces are conducted as a section of the conduction forces are conducted as a section of the conduction forces are conducted as a section of the conduction forces are conducted as a section of the conduction forces are conducted as a section of the conduction forces are co

SCORCHED TAIL Two incidents have occurred in which aircraft

have received substantial darrage to the vertical State Inflores. In both cause to the own being thrown in diagrams for resulting and darrage resulted for the darrage received to the lead strends. There was an indication in the cockpit that this was hoppering. One pitch believed that he had always aparting in loose forwarden during afterbarner operations. Never can tell, so be carried.

CHIDIAW CHUMS, We are cloted over the measures represent to our Teath Austricary insues. It is success not made possible each through the effort and cooperation of many people, not the lost of where were three stable, bend working entiress of the where were three stable, here lowering entiress of the wholes were three stable, here and the stable possible possible and the stable possible and the stable possible and the stable possible and the stable possible possible and the stable possible possible possible and the stable possible possible



ACT I Base Ope

"How are you going to file, "VFR. It's only a tad over a Fearless Fagan, I figure we can "That's OK with rae as long as

ajaks before chow. I've heard i's a good Mexican joint that

purches. I'm kinds sick of scotch

and water." "If I've told you once. I've told an BO, aberry an BO." "No need to get personal again. world's groutest something or other

"Seed it with a bigg!" "And I gotto fly with you for on how forty-five. Pilots. They're and they give you the skin-m."

I need some rough fuel figures "What for? We're going VFB.

"Yeah but I hafts out comething remonable on this flight thingvh when" "A conscience sat Will wondere

"Say if you talked as much doning an intercent I seed to been wondering whether you were book

there or not Whatsamatter been "OK you know how to heet o guy. How about 6500 pounds and 50 minutes to the natch?"

"What?" "fast wanted to see if you were naving attention Seventoes minutes and 2300 rounds. What you

do after that is your own har of tricks." "That's more like it." "I'll so out and load the tunk and

start the reofficht Don't formet to sion the flight plan "

"Scram! !!!" (Sometimer I wasder about that may He's a road

ent though)

ACT 11 Out on the Power "See you found the beast! How was the reallight? Are looks loom

"None" "I'll check, just to make sure. You climb in, back seat only, and

are if there will be one delay from "Your humor's like on old shoe

Or othinks !! "I've heard that one before,"

"It will fite."

Preflight Complete-in the Pit and Stropped In

"Yeah, I'm on." "Got the clearance vet?"

"Yep. Right turn after takeoff. climb on course. Burway 13, you're

*Ready to crank?"

"Touve, Borney Tango Ed "Romeo Tango Eight-Eight, taxi runway one three, winds light and variable altimeter three zero-zero

"Boy this taxiway is bumpy?"

"Excuses, always excuses," (Torsee Eight-Fight resolver one

"Eight-Eight cleared for takeoff."

Box my destiny is in your "Tower, Eight-Eight rolling,"

*OK, gear up-flags-burners out Looks OK Box what a day to flut? "The ruder is still out." "So what's nead Come out !

under the velvet hood and enjoy the view. This desert is armathing else Nothin' but moke and rand?"

out what's wrong with it. Must be the IF strip. No images." "Humm, Can't really see too much from up here. Let's drop down. We've got plenty of gas."

"How low are you gome go?" "Don't sweat it. I flew in TAC We did it all the time."

"The lowest I've been is on those five hundred foot intercepts over the drink. But don't get too low." "No sweet I won't bloor doct

We'll level here and I'll inch my "Boy, it's a different world down here. Not as flat as it looks up

above Look! There's a pay camped out over there. What a nut!" "Yeah this contour flying is the greatest. Sure get a feeling of speed. Sure is hot, too,"



"I don't know. We just record over some bushes or trees or somethin'. Better pull up. Maybe, up lost somethin." "The bird feels OK PR level

here and check eventhing over The gauges look good Wonder "Uh-oh. Look at the right

Yesh I noticed you meet breathing heavy. Perpoising too."

"Kenrined How the hall did

"You musta bit one of those builder or trees back there." "But I couldn't have I had plenty of elegrance I know."

Not as him but it's a hole. Better slow down. We don't want to make it any worse. Wonder if the wine could come off?" New I don't think so but there might be damage somewhere else

You don't feel much in these his beside How are we going to ex-"What's this 'we' stuff? I don't have a magic wand back here. You told me you were a TAC pro. I so whither thou goest, I'm a Wizard.

"OK. OK. Wizard. Use your magical powers and help me come up with a good excuse for this one. You wanted to go low, too, you

"How about we thought we saw someone signalling for help and

went down to investigate. Then while looking for this cat we accidentally hit the only tree in the "Verry funnsy! Get serious or

my career will go down the tube for sure. Want my kids to starye?" "You got married, not me. But on't think there's any way to ver up. Let's tell 'em the truth.

"OK, the's in There Twenty starboard. Hm. forty miles. Might as well get it on the ground and



"No lectures, please, I guess you're right, though. What a mistake to make. Excepthing down the tubes for nothin' Sometimes I wonder where I was when these Two been trying to tell you

that for "Lay off, you professional passenger. It's not furnsy! Say, where are we arrayay? I haven't been

keeping track. Boy, that's a big hole in the right wing." "Climb, man, climb! The TACAN won't nick up the station down

here. What's the free orain?" "Oh boy, here I got troubles and . . . Channel fifty-two."

thinking of beiling out, are you?" "Oh how you are a label Whee d'va think, I'm nots? You could land in a snake's nest or worse." "Yeah that's obstead? "Do you think we should climb to fifteen these or so and make a

stall check with that bad wing and All?" "None she's abiota Bosides I don't want to wreck my nerves any

more than what they are now." "You mean you might not be able to lead it OK?" "I didn't say that Oaly that I'm a little shook un about what I'm

know, that signal idea you had is beginning to sound better and better. Maybe we could does it

on a little more, you know, stick in a few extras to make it more helievable " "You gotta be kiddia". It would nesser sell. Besides, don't clark now. We're only twenty miles out. What'll you be like one out on

*Listen. I'm in deep serious already. They ground gays in SEA for hitting trees on a napalm pass And that's war, man, What d'va

think I'll not for having a look-see at cartus-a solid gold Well Done? The first question they'll ask you is why you didn't order me to climb. you being a major and all."

"What has that not to do with "Nothing, But that's what they'll ask. We notta come up with

sunken. I mean, something or we'll be sunken, er, sunk, Suppose we say we were flying along at ten grand minding our own business our attention like. Then, I see it.

from We don't see southing so we or something. I pull up and head

fixes. How does that sound?" "It'll never sell." "You round like a broken record. Things con't be any worse. How

about it old rol? Think positive?" to me. But I summore it's our word against the snakes [1] no along on one condition." ground." "What's that?"

turning final. These legs and pres-"Cleared to land." ing, old pal?" still white."

"Eight-Eight from Tower, Looks like you have something wrong with your right wing."

"Rog. thanks. Tower." "Eight-Eight from Mobile, You have damage to your right wing." "Roper, Mobile, going to ground freq." "Tower, Eight-Eight on "Roper Eight-Eight, did you get

"No sweat, I'll carry fifteen extra for the holes," "Tower, Eight-Eight "How's that for a smoothic land-"Not bad, but my knockles are "Let go of the handles then."

"That you don't had no ham it

"What hannered to Wirest?"

"I'll never call you that again

old not Let's call for leading in-

structions " "Ones Tours Borner

Tongo Eight-Eight fifteen north

"Fight-Eight Ones Tower land

renway zero nine. Wind light and

variable. Altimeter three zero - zero

"Box. Tower, you won't have to

wait for old Eight-Eight," "Hey-

old nal read me the list. Got the

nurvey in sight. We're ming

"I've got my hands on the

"Tower Fight-Fight initial five

"Eight-Eight Oasis Tower don't

have you in sight. Oh you're on initial for two seven. Continue an-

proach, left traffic, winds light and

variable. No conflicting traffic." "Heh thanks Tower, Sprry about

four. Coll initial."

"Lansand"

that!" "Say, are you alright up there?"

"Is that all?"

handles Don't but me."

un without me knowing it "

"Yes, sir. That's the way it was just as Captain Waylow said." "In other words, he lies and you swear to it. Who do you guys think you're kidding? I had a full report of the incident in my hands within forty-eight hours after you hit those trees. Seems there was an old prospecter eating lunch in that word

area. You knocked bugs and burs INTERCEPTOR

Home Drame—Squadren CO's Office "And that's the whole story, sir. that's how it happened. Bight, old

"Yeah thanks." (The whole world's a wise my.) ACT IV

right. When did you plan on leav-"Birtht now. This bird is moint to "Oh. OK, sir, have a safe trip

"With leaves on?" "Yeah sak my old rol here if you don't believe me Darmlest thirst yes ever sou! Camoufland "Yes sir whatever you say's

"It's but the ennesite. Chief Don't get excited, we just ran into a counte of wooden for an Mirs."

pine in while I mark this thing. See "Sir. Sir! You have a big hole to your left wing and small one in

"Better watch that "follow-me" toock or we might end up with some more publicity."

Do you know you have a hole in "Box One One I know thank you? "Why don't they print a

the mercani²¹

Your right wing?

you on the ground."

the right."

"Box Tower I not the message

"Eight-Eight this is One One

special edition for crying out

"Very fungy old ral. Put your

uch Made him so mad he immed in his inen and raced to the nearest phone to report those lowtion of the aircraft too I was honing you would come clean and admit a buyy job. Now. Eve weally not to hammer you for trainer to snivel out of it with the hull story

about signals."

"But sir. I had to come up with something. I had to give it a try-Eve been a mod tock keeping my nose clean, doing my job. I made a bud mistake, but I just couldn't throw correttions away without a fight. I've worked too hard. The phony story was all my idea and I

wish I hadn't thought of it. I've out to choice but to take my lumny and I men I deserve them?

"Waylow viner words are truching I don't have to use the old man for a slav or un 1'll think about what to say to him In the meanne keen out of sight and trouble Both of you. I'll let you know the

outcome as quick as I can." ACT V

Division CO's Office

"Chief Eye talked to those two clowns about the incident and they thought and I'm satisfied that it was an honest mistake. Waylow is a coord milet with a let of negestial Honology is a steady BO type and a corel officer. Does his homework Force can use both of them. I'm inclined to allow as how this was a one-time lapse of good judgment. back. I'm probably partly to blame for not recognizing overenthusiasm and pulling in the reins a little.

hat won't happen again. So, I

ongly recommend lensency. I

don't think we'll record it " "Colonel your worsh are touching. But you know how much recosize we get when someone even

scretches aluminum. In this case I think I can persuade the old mon to drop the matter. You are closer to the problem than I am and I oin appreciate your position and

accept your infernest. If I couldn't me of the time I took out some Bell Tel wires with a P.36 Newer thought I'd survive that one. So that's the way we'll on. Tell those clowns I'll nemonally skin 'on alice if they so much as come to work

late. What else have you got?"

Squadron CO's Office ". . . and if you clowns so much as come to work late, the old man will recognally skin you alive. Then you're mine. Now get out of here and lay off the kid stuff. Have

those RBIs in my office bright and early tomorrow." "Yes, sir, Thank you, sir," ACT VII

Squadron Snack Bar

"Wizzed, old pal, what did I tell

you? Didn't I say we'd come out smelling like a rose? Stick with me. old pal, and we'll go places." "Sure!" (Oh brother, here we no

STICK WITH ME OLD PAL. AND WE'LL GO PLACES!

he prepared

Back in May 1968, a young Ale Force dependent from Tyndal

diver to fully raisy the wonders

items which are either musafe or speak to avoid The reel seniors, conducted at

of engineers on readily sculled

natur much fin and smorble. This

are buildy breathing (using one

least 40 feet (without regulator)

inally, a 1000 yard swim in m water with mask, fins and couldied eport diese in the case of the Typdall Diving Club. The fense Weapons Center Safety Office and by the National Association of

sional divers, they dive for the eninvested of the sport. Club acnyonies include a year long spear sented armually during larmory. organized and impromptu trips to various diving spots throughout Florida. We, in the Club, see

one San Blac in 95 fact double for an F-105 wreckage in 1966, and the more recent recovery of an F-106 wreckage off the eastern end of Mexico Beach in which Tyndall effect almost total recovery from 30 feet of murky water.

By completing a recognized course of instruction in scuba diving and by continually observing some basic rules of diving which are listed, diving can be a safe. rewarding hobby with every dive ending happily, such as the one cited at the beginning of the article, instead of the very unfortonate end of an Army officer's divein a Florida spring recently. His Navy divers in a dark cave at a death of 190 feet with two empty oir tanks. Or the dive of two Air. Force men earlier this year. They o swam to a watery grave in the

or of another Florida spring.

I. Never dive alone.

2. Do not dive if tired or not

limits use watch and death gauge on doen dives-

5. Use srobs and weight helt

cending while scuba diving. than your cabanet hubbles 3. Stay within no decompression

6 Never hold your breath as 9. Always carry a snorkle when scuba or skip diving 10. Fly a diser's flag when distre-

Instruction on Environment



There's No in Flying Safety ?



The sign reads ... DON'T LEAVE THE "U-OUT OF PLING SAFETY. Expressing agreement are Colonel Kenneth E. Nordling. 14th Fighter Group Commander (right), and Captain Bill Goodwin, Plying Safety Officer for the Islah Air National Gazant. The sign appears above a nationary used by plotts on they walk frees Operations down to the High line.

This is the first winner in a neries of safety.

meetily winner and his wife are assumed a fractic throne by the Group Commander.

Safety is taken sericonly by every member, the felals Air Gazuli an ovidenced by the fat that they have just completed misenteen most of accommendation fritten. This becomes even mor algorithms when you consider that the arisk's H ing time last you consider that the arisk's H ing time last you consider that the arisk's H ing time last you consider that the arisk's H. Ing time last you consider that the arisk's H. Ing time last you consider that the arisk's H.

In flying safety, there is a U!... and there is a me!!...

and there is a them, and there's an us!!!

FERCEPTO

history of

using the early years of aviation, softeness to problems such as determining airspeed, altitude, and range were considered the basic speeds to the operation of aircraft, and as technology advanced did aeronautical organizations begin to envision a method with which to

ALMSGT BORRIE L. MASHRUEN

The problem was to develop experience which would process the same information to the plot as he would observe under visual Eight conditions. Visual references gave the pitch in position is a three disigneed of the pitch in position is a three disigneed of the pitch in position is a three disigneed of the pitch in position is a fixed dispersion of the pitch in position in the pitch was made and the pitch with the pitch and the pitch was made and the pitch with the pitch is candidated points of the pitch with the pitch is candidated pitch of the pitch with the pitch is candidated pitch of the pitch with the pitch is all the pitch with the pitch is all the pitch with the pitch is all the pitch with the pitch is described by the pitch is all the pitch with the pit

It was during the late 1920s that the Bureau of Standards designed the first instrument landing system. Development of this method proved to be a major breakthrough in the ministen of weather as the largest

registration for correction segments of this second, the basic principles of this serve as a model for most developments to this side. Even the connesperary terms. Localizer and Gible Path were coincide to describe components of this sarly technique.

The localizer transmitted as a frequency of 278 followyders, the results of the control of the cont

end of a cursory so that its signal custodied directly down the middle, with a producetance of either the 65 gas or 86.7 cp. to brening the band patterns on the last and right aides of the cursory center line. The state of the cursory center line. The tristing reed indicators, one would receive an expect to 65 gas and the colortered to 65 gas and the colortered to 65 gas and the colortered to 65 gas and the colortic color of the execution of the reeds indicated the amount of shelloud signal and therefore the location of the aircraft with respect to the decided removes course. On the decided removes course. On

pilet positioned his aircraft so that

his a directive antenna array which is to excited at 93.7 mc by a 500 m. by transmitter. The signal postern composition is sided of an infinite series of point where the transmitter produced of easier and the side of equal field strength. The color of the side of the si

constant reading, the alcoraft would discored on the selected path to a landing.

A fan marker indiscored by an aaral tone the odge of the rearway. This transmitter operated on the name frequency as the localitors, therefore no addatonal receiving opaliments was required.

component was required in the superation of the 65 cps and 65, 7 go localizer sideband pameras. This achievement provided a sechnique of applying their respective corpuss to a zero-center differential indicator. This nater surveneet was incorporated with the glide path to provide one common indicator which has reviewed into the standard commonwhere interactive and add



PERATIONAL READINESS INSPECTION TEA HQ, ADC

"HAPPING ON HPP"

Inspective have discovered many problems in the Bossan Blabbitty Programs (IRE) shring the past year. As year how the property of the program of the program of the property of the program of the way to be taken by operating unit personnel, and, countly, this is close after an included "catche helffor not doing the job properly in the first place. We have to speed time surfast; meaninatery inspection reports or, for that matter, writing at all. So let's look at the more consum IRE problems and distant way.

as the sum consense life profession and distinct of the consense of the consenses of the consense

HRP certificate before the budge request is signed.
Take your HRP rotters to pass and ID and company
the date of initial accessing for the indepthical uned.
HRP with the date that the budge was issued. If

the date of initial accessing for the individual used. If HRP with the date that the badge was inseed. If badges were inseed first, best take some corrective action, such as rescreening the individual. Publish #2. "Personnel were not properly

Problem #2. "Personnel were not properly screened, because required steps were performed out of sequence." In several cases, the Fight Medical Officer reviewed medical records after the commander accepted the individual under HRP. In other cases, the individual signed the HRP critificate after the com-

mentional region for mind victories was to be communicated as expended in market to religiously followed:

in the part of the communication of the communica

Problem #4. "Many administrative ceres were need in HBP poper-onl." For example, signature and datas were ministig from HBP certificates and centres in medical records, also, blocks on BBP certificates were not theselod as to Mother it was an initial successing or reservesing. Sometimes HBP certificate blocks were such checked as to whether the included."



"We don't think you're unreliable or inhuman, it's just that your 286 is "

had been seround. Continuously, neutrity clauses and insentigation leads were not enumerated as the mental consistency coupleded or were towarded consistency of the continuous and account of the continuous and a First 17, 1, and 67. A through self inspection would clinicate many of these cross. The HIP 1000 rate on enumerate women of a First 18 HIP 1000 rate on enumerate women of a continuous testing on the continuous testing on the water and continuous testing on the water and continuous testing on the water and continuous testing on the continuous testing of the continuous testing

usits, even when the security police program was conclusted. Most HIP contribute from the GEO should take a more active role in the program. Seen HIPL take a more active role in the program. Seen HIPL terms prevented recent accurate. They should provide race advice and guidance to the vertical provide race already and ranks staff vision to the users, proposed act and role and racks and vision to the starting proposit act was released and racks staff vision to the swarten during the state of the staff of the staff of the design year. Herman Halahlip, Program. H. discotication of the staff of the staff of the staff of the design point Harman Halahlip, Program. H. discotication of the staff of the

the security police for had HRP write-ups at some

BILL NORRIS, Colonel, USAF Team Captain, ADC ORI Team

PERRIN: ATH TO PROFICIENCY









"Welcome to Perrin Air Force ent aviators to they park in front If you have been a pilot in ADC for any length of time, you are

"Deuce" and "Dog" are familia this Assocrace Defense Corresand combat crew training base. carry training base in the Air Name It is directly reader the numeratains of Tenth Air Force opened in 1941 and renamed in 1942 in memory of Lieutenant Colonel Elmer Perrin, a native Town who was killed while test activation (1946-1948), Porris has cadets, then transition training in

a number of different aircraft leading finally to the F-102. is the 4750th Air Defense Wind tor aircraft as combat weapons. Accordingly, the Wing, with the narty aircreves, stands ready to organest ADC in the event of hostilities. Life support training of

ADC signess is another vital misis placed on water survival in this

The applicances date of 13 lanwary 1969 marked Penja's contriwithout a major accident to ADC's flying safety record. During these training unit) logged 23,500 hours in T-37 jet trainers. The almost automorpical total of 105,000 hours represents nearly twelve years of

ADC fighter unit over sixteen year

way important part of the 5th Air Defense Wing is the two couldn't crew training upusiress. The 4781st and 4782nd Cornbut Cown Training Squadrous produce combut-ready F-102 pilots;
however, the types of flying occurrent conducted are many and

varied.

Air National Guard pilots are trained to use the F-902 as an air defense weapon and are constant rouly when they reach their seats. F-902 pilots are trained and seat to squadress in Southeast Asia, Europe, Iceland, and Alasko. In addition, UFT graduater, and F-6 backwaters are given flying exhausters are given flying ex-

addition, UPT graduates and backseaters are given thring perience in the F-162 prior to ing sent to Tyndall for for training in the F-101 or F-106. SAC crees, who will ultima fly the B-58, are sent to Pennia a special transition course is F-102 to learn the Inefing cha

a special transform course in the F-102 to learn the landing characteristics of delta wing aircraft. Liked officers from several countries are receiving F-102 acudemic and flying training. The purpose is to provide a code of F-102

denic and flying training. The purpose is to provide a coder of F-102 instructor pilots for their respective air forces. Each combat crew training

squadron has its own instrument training section. When the new suddent plint arrives, he is extered in an intensive T-S3 instrument training program. Upon completion of this training, he eaters an F-102 course that is best sailed for his experience hevel, depending on where his fature anigeness will be He mergeness through record

experience nevel, depending on where his future assignment will be. He progresses through ground school, simulator, and then moves into the flying phase where he will learn formation flying, instruments, aecobatics, and radar intercept

In addition, each squadron has IPs who maintain qualification in in-flight refueling. They are freparly called upon to train aircross in refueling for ferry resi-



siens to SEA and other parts of

Our ground control intercent ify pilots in current ADC tactics active oir defense role. The sole within the Air Force" in keeping

Award in James, 1964, What it

Visiting flooren indicate that safest terrorounds point. We averare 350 satisfied outcomes nor

1962, they exhibit to the veleti-In lawary 1965, Det 11 was the ABBC's Commander's Torobe: The

in lune 1967, the 3251st Flying Training Squadron (ATC) has Green 23 500 comblest from boom Training (PIT). The assurbon

ABOUT THE AUTHOR for the 4760th Air Saferas Wing of Pavin AFR. Trees, since September 1988. A nation

Calumi Advance Flow combat relations both year A.800 miles in 11 hours from Connecof 1984. With over 4,200 flying hours to his

of abreels.

conducts life support training & personal and personal equipment

of life support training. Since its arrival at Portin AFIL trained 1.210 aircrew members. terino as moses as in 1967. In fem. ware of this year, the school gradnated its 20,000th student A small base with a hir ich-Perris, with its crew of dedical troops, continues to accomplish as spirit which prevails thoughout This is tempered with the tudgstanding safety record that we

Persin, its record, and its neonle +





again emphasized the necessity to wear regulation spectacles at all times.

The following is a brief sum-

the past orace the regiminal system of the control of the control of the tend of cameeling or taking makine control be fise with a pair of consequency belong disease. It has not been glasses, however, were the control of the control of the last of these glasses, however, were the horizontal of the control of the same than the control of the same than the control of the same that the control of the same than the same th

sident was the visual problems

mercially obtained spectacles.

AFR 167-3 is very specific in the statement of policy on the use of aircrew spectacles. Paragraph 10b states only spectacles authorized by this regulation will be prescribed.

Tour fiying spectacles are designed by experts at the School of Arrispace Medicine to be an intergral part of your helme-temper mark combination assuring a correct and comfortable fit. They are control with a substance that prduces glare and makes them ideal for midd frieng.

As you are all well aware you vision is tested during each annual physical examination. There is a resoon for this, beginning about 200 per 30 per 30

be corrected one year with one the prescription, the next year you may require more correction.

It is entirely possible that year

vision may debetiousle so fast that you would require several different prescriptions in the space of one dedesemble of the several desemble your. So don't wait to see the optonetrist until your annual examtation if you feel your vision has pen changed before time for your phys-

Each time you sign a 1042 (AE Form 1042, Medical Beconstern dation for Flying Duty) you are required to institul item 20 if appropriate. This is your acknowledgement that you are aware of and accept your responsibility to wear spectacker while performing daties requiring corrected visual accept; it is your responsibility to yourself and to the Air Force to they in your solet configuration.

proper mectacles' The He was

save may be your own.

the name of the game is AXIMUM' PERFORMANCE'

by MAJOR L. D. HAIGHT • DCS/Operations (ADOTT), Hig ADC

Mer L. D. Hengle has been flying the F-308 steen (900 and hen heen directly included as an instructor in the ACT triving progress since its otherat in ACC in 1907. His personal circum cen the ACT training progress over exposured in that article is attached as interest in article as attached as a toward in a steel as a fine of the article and the progress of the interest of the progress. Med Henglet is currently assigned to Revolution of the Progress. Med Henglet is currently assigned to Revolution (ACC on a Textical Control of Textical Cont

All F-16 opasitions are going to be trained in Arrich Corduct Taction. This training, along with training and the arrich training. The milkyla stodings, in the major item part for global air defense raining. Name 2007, ACT has been as one tablished program in some F-100 May 100 May 100

the instruction.

What is the end result of this progrant? You get a town coupled of operating in a border lighter or of operating in a border lighter with the confidence of the produces a globt who has the confidence and alkly to handle his sirecult throughout its outer massessevering ensolope. What does that mean? It means you don't have a splict that borolated at a light, althride unapper past there as after the results of the produce of the produce

The ACT peogues is designed to inscre that the pilet fully scalestarch have to nanowore his machain thereights in the overland postion of the pilet fully scale and particularly when he is approaching its performance in the name of the gares. Monitoran perfornance flying in the ability of the pilet to office his skill his safely getting the best cut of his aircraft. Ask yourself—of you know what the manisoms performance copilishes on the second performance copilablism of two seconds are of the pilet in the pilet is the manisoms performance copilablism of two seconds are of the pilet in the pilet in the pilet in the pilet is the pilet in the pile

proper control techniques with a

outly doubt it, unless you've been exposed to them in a planned and supervised manner—which is just what one supect of the ACT prigams is designed to do. You say "50 WHAT! Who wants the pilot to fly at maximum performance? What requires if? We don't need it to perform our mission." If used to be tree. The closic mis-

used to be tree. The close's mission for CONUS defense didn't require maximum performance out of the F-100. It was approached occasionally when breaking off a special weapons pass but it's also a fact that not all pilots know how to keep the bild sucker control in that instance! ADC has a new mission new as ADC has a new mission new as

AIX. In a sew insides now is well as the clasic air defense relief and that retirine — globel air deail that retirine — globel air desired air defense air desired air desired air defense air desired air develop the aletty or approach those limits with coeffidence. Tess all ags., No requirement for maximum performance. This is proposed to the proposed of the Keese right now and the threat core love good power and the same of you for the proposed of the or the proposed of the proise of the proposed of the proting of you find you. or aiceraft, then you're a sitting that for the opposition. It's not only Korea, almost any place the stars might be deployed, they face a hostile lighter threat. We know from first hand experience that the opposition has good machines and they know how to expelie them.

Our most effective counter to that threat is the best possible staining in AGT.

Well, I got off the track and waved my flig a let, I was talking about what the AGT program produces. Busically, it produces a pilot who is better prepared to handle list machine because lie understands its performance char-

pilet who is better prepared to handle bit machine because to handle bit machine because the understands its performance clusnactivities. Enemple—the approach to landing, and that is a clossic high angle of attack, low simpped situation that pilets face every day. Effect who have gone through the ACT program understand and are better able to cope with the posijuince of adverse yaw in the building lighter of adverse yaw in the building.

where and better prepared to set the hird down where they want it at the proper airopeed. The ACT program has shown as much about the need for effective use of natder control in all low airopeed and high angle of stark shuttons and frealth, the modern jet age has delited away from streaming its value. So much for a pilot better

defined away from strending in video. So much for a glish better prepared to handle list machine. Some of you are soling: "Will and good, but pulling all those the properties of the properties of the sion." That is not tree. The overall objective of all one training is to being armanent to hour on an excess. The ATT program to the properties of the properties of the market that a compatible six laterous rate and hose lighter mamorrows be accomplished. You can worked by the properties of the proserver that and other light or according to the properties of the proserver is accomplished. You can you can't becken arch he was

ws. About that G pelling tear-

ing up the radar set. That cry has been put out by two years of experience, it just ain't so. Effective creelsoment in a fight-

perience, it just ain't ao.
Effective employment in cr-to-lighter environment o that only free minufes some migras problems. W produce a plot who can in a maneuvering fight an ministic on the target you'v plot who is centainly able

in a management of the and pet a resistion on the target yeave get a pilot who is certainly able to cope with the front stem neutrals. All this about ACT touising and maximum performance and some of you see asking "What is the programs" it's all certificed is ADCM 51-100, Vol III. The gregars is real to the period of the description late. It is the period description that is a skey used the

could still the late of the la

limits of his aircraft—how to recoption the approach to them and the proper control ferelesspore in the proper control ferelesspore in Them a markey of the basic changed and approach to the changed and taught on repurse measurement. Each pilot learns have not manner and taught on repurse measurement. Each pilot learns have to perform them and their application in a manerovering engagement. Then testind ferresation, trans-

tion in a maneuvering engagement. Then teetical formation, teamwork and employment principles are brought in. The busics are put together and the fight in onl You've been given the tools. You must be aggressive and willing to pull your york out—the only way you'll conyour aircraft, then use it. The basic confidence maneurers are well named because they are just that. Only if you have complete confidence in them and your ability to perform them sail your considerably be able to call tracking from six cited love. It does not seen a six of the confidence of the confidence of the cited love.

I don't seem to imply that a humbanded beste vite in this per garse. Maximum performance in the key, not yank and bush. Montain the seem of the seem o

I'm hely horse end hely elligates and the rest of ne is red hot snapping tartle! For rears of son teeth and holes marked for more

psuched for more.
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Fin the roughest bird in the skyl.
I can whip my neight in arkhoust.
The further up the creek gen g
the trougher they get and I confrom the head of at!

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on ton of it right from the start .

POINTS

We would sincerely appreciate your inputs mailed directly to: The Edinor, INTERCEPTOR, Box 46, Est AFB, Colorado 80912.

F-101 Drivers: In the next we have experianced mystifying could been of fuel from the F-101. Some of these rended fuel leases have resulted in air craft being lost. A plausible explanation which appears technically correct has now been discovered. If the battery is dead and if the pilot has realected to select the bottery switch to the "ON" position then two disassociated means of losing fuel can occur. First, upon selecting ofterburners "OFF" the ofterburners will not terminate unless the throttle levers are retarded to below the afterburner emergency cutoff position (85%). The pilot would normally detect that the afterburner did not terminate: however, at extremely high altitudes it is possible that this condition may go undetected for some time, thus permitting a rapid depletion of fuel. Stronger things have hoppened. The second possible means of lasing fuel is through the wing tank yest. If, after will not close when the fuseloge switch is selected from "gravity" to "normal."

Thus the field pressure (16-24 PSI) will overcome the winty tank air pressure (11-13 PSI) allowing tank air pressure (11-13 PSI) allowing tank and in feed back into the wing tank and into the part of the pressure that the part of the corold eliment of the free pressure that the back tank the part of the p

A recent foul actioner occurred where a T-23 law power immediately after stake.

off. The pilet attempted to regards power, when he found this hos impossible, when he found this hos impossible, when he found this hos impossible, he attend to girt. He after a great out of a stake of the pilet. He after a great power is a stake of the pilet attend to the pilet atten

120 KAS minimum with no side rate. However, regarding the neutral mounting of 273 pites should be some that with the trian "in the green," at two with the trian "in the green," at two the time that possible, if a great to be the sime that the possible of the green, as two has honds off the central end resulted his honds of the central end resulted his honds of the central end resulted his considerable that a possible review that the central end of 123 pitch review that own seeds of 123 pitch review that own seeds and 123 pitch review that own seeds.

moving the nose-down trim as soon as is martiral after airborne (ADCSA)

The time is approaching when we must appear shore the sky with our feethered feether. Mortunately, it is not a second and the second and the

"Yow!" up your whole day. (ADCSA)

Who would think that a single job like isstilling an access panel could continuous to the country of the countr

listed as a contributing factor to a major aircraft accident which accovered recently within this Commend, Sometimes it is the single receive jets that lead as down the gender path. We stend to get advant the gender path, we forget the importance of the single received and the second of the properties of the second of the

It has come to our attention that the WARNING on Page 4-11 in the 7.33 Dash One, concerning the consequences when the TACAN circuit breeder page out, is not widely known, it is strongly recommended that all 7.33 pilots familiarize themselves with this WARNING.

(ADCSA)

BLUE ZOO



"You may wender why I've called this meeting.

feet at which time the rilet was and glide path. The aircraft conuntil 400 feet when the poor seat pilot called out the altitude as resuppled According to the rear seat

off or 400 feet but to his knowledge, the other pilet did wet ading at the alternate, the ejecualt was termed off with feel. Weather GCA controller noticed the leveloff and instructed a governed The front and pilot called "We

to get out of here." The year west they would make a strangered and either atterns another agreeach or go to the alternate. Shortly the level-off maneuver, the seat milet noted a rather near-high

attitude and an airmeed below 100 knots. As the aircraft began to

"We have to get gut?" At that point, the year west pilot was nilot in the freet. He turnblad

and after the paraclute opened. pensimately 50 feet from the aircraft impact point. The front seat with a portially opened parachate some 450 feet from the aircraft impact point. The aircraft hit with no store of vertical with a trian low attitude, approximately 500 yards

were fully extended.

T-33 CRASH ON FINAL

The minion started matter as a

the front seat pilet, and partly as miles to another have for physials. gical training. The flight to desti-

At moon on the following day. was heisfed as 500 broken, 2,000 herken 8,000 coverest with 3 miles conditions would be 800 overcast with I rule in rainshovers. After some discussion, the pilot in command decided to file for home route. Takeoff, climbout, and leveltraffic control center. Approaching destination, he made the decision approaches to home bose where

After cracking an 800 foot ceil-

500 becken 500 mesent with 2 navigational reoficiency flight for miles in light rate and fee. Intermittent conditions of 300 broken forecast for arrival. An IFR flight plan was filed with an estimated arrival time of 1814; conditions of darkness would exist. Takeoff and destination fix the pilot was

> revived current weather from both the air traffic central center 570 rullons at this point. Descent and handoff to approach control for and received existing weather conditions. After bandoff to GCA. the year seat pilot was asked to call cut abbudge of 400, 500, and 200 isting weather conditions were now 200 overcast with 1 mile is light



The primary cause of the acri-

counties (Whole unangenered Why did the offer been to level off at 400 feet and from all indica-Since the reflet is no longer with us. many board on available informa-

The front sent relet was comsidered to be the conscientions none Illis responsioner more fraflight management ability during regulation by not reporting a flight proceeds actions. His total relet time was just over 1900 hours, of 180 hours of this in the T-31. Two days prior to the accident, he com-

pleted 5 cresenaches in loss ceiling conditions and monitored at least 5 more precision approaches by a cilot who was in the year and. He had flown a total of 7 hours in the He was an nirline pilot who was theirer with an ANC unit. This was probably the reason behind his request for readout of altitudes dur-Based on the facts available, the 400 feet most probably lies some proficiency in the T-33 and spatial disorientation. It's possible that when the year seat pilot called cut

400 feet, the freet seat pilot took

some other properties factor he cosóda't reestablish his concentraproperted him to call. "We have to accordingly.

is absorbly and it won't be to some it does present an opportunmy to re-emphasize the point that when a refer to making on anhe's cross if he takes his even from the gauges before bitting miniment procedure. Normally the

Only one nagging question re-

make a go-around or if he was come he didn't advance power as randless of how proficient he is or ion't. Apparently, he didn't even shadder as it approached the stall. that he experienced one of those odd-ball partial feel control failand can't be deplicated on the grabbing for some sky before ejecbuck-seater would fit in a little better. We'll never know for sure. but the assorbing to think about Filing into an airdrome with clouds on the dock and instrument renficiency at low tide is also worths



safety officers'

FIELD REPORTS

T-33A, SMORE IN COCKRIT. When gare handle was gloved drawn prior to 1500 high keys, variate extending from the second prior to 1500 high keys, writes extending from the filter of the raw cought instrument panel. Unserently, and the second prior to 1500 parts. Investigation revealed a body burned leading gear warning horn. No other electrical defects were resulted to Short burned leading to 1500 per warning horn. No other electrical defects were resulted to Short burned leading to 1500 per warning horn. No other electrical defects were resulted to 1500 per warning horn. No other electrical defects were resulted to 1500 per warning horn. No other electrical defects were resulted to 1500 per warning horn.

1.1 mosh, the ACIOC pewer fleshed on and directly leaving or recent tress in related on and directly leaving or recent tress in related to acid descent insistly 60 secretary in the second of descent insistly 60 secretary in the second of descent insistly 60 secretary in the second of descent individual of the second of the second of the second on the second on the second on the second on the second peace of the second on the second peace of the second on the second of second on the secon

I-102A, SMORE AND TRANSE IN COCKETT. Fill of closed errorgancy immediately after takent file of electron and the control of th

F-102, OXYGEN PRESSURE. During flight at FL 200, oxygen pressure become so extreme that pilot could not exhale. Recovery mode using believe borise offer olicraft system depleted. Defective oxygen regulator. BASE, ROOM VIRKATON, Transition was being figures until a gille for ecouracy in the 1-32. After ga-missed from a lew apprision is witnesseen was head and the 1-30 destined as recognition to head of the control of the second control of the large, the soots wheat custom was found traceptive lease on the control or the second traceptive lease and the custom was found traceptive lease and the custom was found traceptive lease and the custom was found traceptive lease on the custom traceptive lease was seen as the custom traceptive the wheat land valued. Support that the custom the the wheat land valued is only to the wheat land valued. Support that the custom the the wheat land valued is support that the custom the lease was one extension and after 1 fell land.

Th-125A, MOM OIL PRESSURE. While or 25,000 feet approximately 70°C, the oil pressure fight liberinated on the following parts of pressure goope read 70°D, and the second control of the second contro

25,000 feet, the stroifes were absorbed to the Not molitory position. A field live Metaveten of 800 to 1100 PM was assed with an occurpanying IFF fluctuation of 2.5 at 2.5. the 41 GO was the consistently 80°C lower than 72. Perset 100 was the consistently 80°C lower than 72. Perset 100 was the field to the second of the second of the field control on 71 engine was selected and fluctution assent. Per applies was selected and fluctution assent. The second precentisency londing was consequently all homes bases. Neveralization control interned feature of the wain fuel coerco. A PECANIONAL LANGOO. The amount of fallow. The paint four count designs purpose of fallow. The paint four count designs purpose of fallow. The paint four count designs purpose of the county of the c

F-102 WINDSCREEN. Aircraft experienced crocked in windshield. NESA wining was observed to be from in the forward lower corner of the pone. Aircraft slowed down and landed aloy. Cause: Short in NESA panel caused windshield to crock.

emergency DC has franchout

A1018. Sign! A fractional shot flight was believed from the first original shorps. After should be former of the first shorps of the sign of the sign

F-106, CONTROL STICK. Stick "bound up" mamenterity during londing approach. Landing completed without incident. Cause. An extra bolt of the type of to secure the stick assembly to the aircraft was food under the stick linkage. FINDA ILBIT CONTROL. While describing through 18000, OOI TRAN, similar water size as in which is placed, but the 1800, You Trans the control water size as which is proven. For indexe placed in exercity with deposition in proven. For index peaks in exercised control placed in the contro

F-1068, TURBINE COOLER FAILURE. Aircraft was in gell up fair in free seepup attack when the pilot heard in load naise followed by enable and dest entering the cedapit. The cockpit temperature was integretable thereoffer. The directiff was returned to harse bose where a successful familiag was reade. Investigation revealed internal failure of the tarbine cooler.

F-1018, RUDDER MALFUNCTION. After takeoff or 200 KIAS the rudder ween full right. The table any was normed off. At 33,000 feet the ACS was selected and again the nudder water full right. The ACS was trend off. An unavasathil safering was made at homespine. Consistive action was to replace the IAS2 methods on the Collistorie is the allieron and rudder methods on the collisions in the allieron and rudder.

F-162, INSTRUMENT MARKHUCTON, Accordings being filter on on P.C. After being different on an P.C. After being different on the season of the s

F-104B, HEAVY STICK FORCES. The pilot noned heavy Highs control srisk forces during takeoff. Additional pressure was required to control piloth so oirspeed increased. At fisal appressor, speed strongle control was named, but note was heavy during rounded for a preconferency handley, investigation revealed

latar.

safety officers' FIELD REPORTS

ELONA PRODUCT MALEUNCTION During second interand you on AC never follow accurred which could

not be brought back on the line. While 39 miles from hame during RTB, all pressure light come on accomportied by complete loss of all pressure. Power setting was set at 85%. A successful SFO from 18.000 feet was set at 85%. A soccessful sed from 10,000 feet shoking so hadly during SFO he could hardly read the airspeed indicator. Angle pear adapter oil pressure fitting failed due to avertormusion or improper 5.102 DAM AN TURNING. The gircroft experienced of

hardenalis all hat light five minutes ofter take-off. Airspeed was reduced to 220-240 KIAS and uneventful applicable landing personalished. After landing it was discovered that the RAT had extended in flight. The pilot stand that he did not hear a click when he closed the RAT on preflight, but the door remained and applied Corrective action: RAT door and lately T-33A, BROKEN BUCKETS. On a post-flight inspection

the time of those burbine rater blades were found to he broken off. There had been no unusual indications during the acresious flight, layertoution reveoled a mismatch of turbine buckets by another organization during overhout and inspection. Cor-

F-1018, COCKPIT SMOKE. During climbout, the RIO therapiter seriend hive smoke within ceckers. Approximpaly 30 seconds loter, pilet neticed smake from off and temperature turned down. Rom and dump was selected. Specialty in landing presentished. in line to #1 engine primary hydraulic purro. Line retorqued

STATE SHEE SECREEN. The State was air show when fuel in cell two was 1800 nounds and neither narmal or all nurses selection on fuseigne first tranfor would increase quantity. Fuel continued to trensfor from the entered teek and the wines. Alcounts leaded ASAR. The gircroft was refueled ofter leadion and the malfunction was not arresent. After can-

siderable trouble shooting, the malfunction appeared when both the external and wing tank had fed out. The fuel control relay panel was checked and two

T-33A, BUNAWAY TEM. Elevator trim want to full nose down as pilot started go-ground during an SFO. Tries coarrida was expansed. On arroard and subsequent leading were correlated without further diffi. sulty. Investigation revealed the ness frim down selector relay was stuck in the nose down position and had an electrical short.

F-105A. DRAG CHUTE. No drop chute on landie There was no drop shute in the carnister on post-Form 781 had been signed off from previous flinks. Speed brokes were closed during preflight so pilot didn't visually check chute installed. There was no nationable reaction when done there handle was nulled and no drop shate was found on or in the vicinity of the runway. Drug shute deployments since have been normal. Exact cause of malfunction un-

F-101B. ENGINE VIBRATIONS. The number two engine vibrated between 30 and 40 percent rpm during start and shutdown. Whentons were sharked and determined to be within limits. On an intercest training mission during a snop-up the ofterburner blow out. On a record intercept the engine last never EQT was flurnation between 180 and 280° C. and ram were low. Throatle needlen was near military. An emersensy was declared, the number two grains placed at idle power and an uneventful lending accomengine responded normally. Cause factors: The popease needes were found out of adjustment turbin wheel. 3rd stoge nozzle guide venes damaged; C bushings were found loose.

THE BALL BOUNCES

ACCIDENT FREE

F-100 F-104 F-106 B-57

EC-121

CONVENTIONAL

148 Ftv G

TE-102

42.5

we point with





1.33 FLAMFOUT LANDING

a marts pickup mission. Climb. two consecutive bangs, accompan-

to 1000 EPM. The throttle was immediately retarded without effect on engine RPM Smoke and furner began filling the cockpit and the throttle was stancocked. Noting the RPM increasing towards 1059, and the ECT assessables 1000 durant

An emergency was declared with altitude on arrival at Lowson AAF.

greetenn condition and the main placed in the closed position. Glide where a flamoust nattern was

were lowered using normal prowith no damage to the streraft.

broken loose resulting in simple systems supplying fuel to the

reperier flying skill and calm manscortly of the ADC "We De

AFTER BURNING

May I be umany the many to congratu-

MA. It is, in short, the answer to a multito, multi-mission capability for beverbe-

ore defense—the O-1X. After extension field trials in SEA, comple ten species than disharps handlule of

ter, has simplified the problems of weepen reproduction of its \$408 program parket

EUROSE TO CAPT BELT STREET

arefled.

If Call Jones M. When

"Our WWI separt was well aware of the explain of Billy Riches and had beenful to include him in the last Woman remarks.

of planes of WWL approintly on I becomed

LATE INTERCEPTOR DISTRIBUTION

Please Servered two copies of "The Righter

a different six. In addition to the found Andrewson have which was double vice ory edition on the \$100 and Fisher. And and two Fighter Pilot avails.

The 120th Fighter Group, Marriage Air No.

the Cold Hard Facts

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	of AF Form 947. R. primarily used to V. Orders instituted in V. Orders SAFETY HAZA- Addo in a Ski	olomia routina la Flight Mor	recommo	om. However,
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