Interceptor





Interceptor volume 10 number 7

- Becaused Show

It Gen Arthur C. Anan

Ubusty many respectibility. That is why meet man decad is





Mai Edward G. Cleary, Jr. Mai Richard P. Coulter

Mai Philip A. Tanson, III

Crain T. Schafer MSor Kenneth L. Grav



WE DOINT WITH BRIDE AFTFORUSHING

special features TAY AGAIN ALL AFTER MAY DAY" ADE'S GLOBAL CAPABILITY

DISPERSED OPERATING BASE

14

OUR COVER

memo

from the CHIEF OF SAFETY

COMMON SENSE





I'll be seeing you.

COL H. C. GIBSON



Cel H. C. Gibsen

-HOT LINE



brakes were released and a slight turn to the right conright rudder to correct the turning moment, and right or to reposition makes and note wheel alignment white could have caused a serious accident had-a formation a clean aircraft. We rebriefed all of our pilots on this observements that took us seven years to discover accidentally."

OXYGEN DEPLETION

ore for circres use. As F-101B experiesced confli oxygen loss and radar operator had severe hypoxia uses after takeoff. This allowed entire alcoraft oxygen supply to yent into cocknit. Cabin altitude was approximately 15,000 and radar operator was without oxycon for 10 to 15 minutes. Blat national carrotte carrottity had decened from 7.5 liters down to 2 liters. Aircraft was headed toward home and descent started down to cubin altitude of 10,000. Radar operator informed pilot that he was suffering from hypoxia symptors. Descript was continued down to aircraft altitude cency landing was made. Radar operator was uninmitted.

One system of primary importance is aircraft

UMP PILOTS ASSOCIATION PEUNION

The excepts third Armad Reurien of the China-Inn. Crockett, Texas, August 23-25, 1968. Contact York Authority, 111 Eighth Avenue, New York, N. Y.

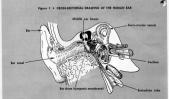
10011. Phone (212) 620-8396.





There are two twees of scenal-





current be heard by man and probably exert no ill effects on bearing The risk of hearing loss due to

NOISE is dependent on the following factors: . The intensity of the point exnouser. This is usually expressed as pressure level in decibels (db's) which has a reference of 0.0002 dynes/cm⁴, i.e., zero decibels is a sound pressure level equal to two son-thousandths dynes per source

centimeter. Whenever decibels, which are not absolute measuring units such as degrees or inches, are used definite reference levels must be specified (see Table 1). . The frequency energy of the

NOISE errouse. This is usually expround in cycles per second (ces) by netwo bands. . The duration of the NOISE

ernouse. The shorter the duration of exposure to high intensity NOISE.

the less the damage risk to the indi-Figure 1 depicts the cross-sectional anatomy of the human ear. circular canals and adjoining structures, which aid us in spatial orien-

tation, and the cochlea which con-These receptors change pressure This is the area that becomes either temporarily or premanently damaged due to exposure to high intemity NOISE.

Obtained during obvaical examinations, the audiogram reflects the threshold of bearing of the examince, which is the sound recovere level (in decibels) it takes for an individual to barely perceive sound

at six different frequencies, ranging from five hundred to six thousand cycles per second. USAF bearing standards are listed in Attachment 12 AEM 160-1 Medical Examination and Medical Standards These are the maximum allowable louner of hearing acuity accepted by USAF. further medical examination discnosis and disposition as outlined in AFR 160-3 Hazardous Noise Exposure. These detailed examinations

are done at designated Diagnostic Hearing Centers. After it has been determined that NOISE was the cause of an aircrement's bearing loss, an inflight evaluation can be done by a flight surgeon. If there is still a question as to whether the aircrewman is or is not a hazzed to flying safety, he can be referred to the USAF School of Accorpace

Medicine for a final examination and recommendation, which is sent to the Surgeon General for final disposition of the case. The bearing threshold of a giver

individual may shift temporari



ear may hear a little better than the other, but both will exhibit loss of hearing due to NOISE. The primary sources of NOISE

found within the covelpts of jetpension and the covelpts of jetpension and the covelpts of jetpension and the covelpts of jetton and the coverpt of jet of jet of jet of jet of aeroslants disturbances which result from the operation of different environmental country system. NOISE associated with aerosynamic disturbances results when the cuser sections of the fuselage, casegy, or witchfulled resources aerosynamic loadings which are imposed by the secronaling autorophre through

surrounding atmosphere through which the aircraft travels. Noise measurements made inflight in the cockpits of twenty different types and models of jet aircraft with interents or semi-internal fitted single or dual engines ranged from a low of 96 db to a high of 109 db, well above the maximum allowable sound pressure level of 85 db. trolling the exposure of an individual to NOISE:

NOISE reduction.
Reduction of exposure time.
Personal protective devices.
The first two methods must be

saken into consideration in engineering design of future systems. The third method can be used in and around the precest systems which are known to produce hazardous MOISL. This in done by wearing any plage, are metho, or both. The sat of the produce of the produce of the systems of the produce of the prosent of the produce of the prosent of the produce of the Base Flight Surgeon's Office. Depending on the frequency, the car plage attion of the produce of the proting of the property of the proting of the proting of the proting of the proting of the property of the proting of the property of the proting design of the property of the proting design of the property of the property of the proting design of the property of the protemporary of the property of the protemporary of the protempo

Loss of hearing sensitivity occurs noturally with increasing ago. Other causes of hearing loss include: infection, trauma, and drug sosicity. Any loss due to these reasons will be additive to NOISE-induced hearing loss.

The risk of damage to YOUR

hearing is with YOU daily. The means of preventing this damage are available. Discuss with your flight surgeon any problem you may have with hearing or NOISE-hazardous areas.

areas. ★

Ed. Nose: For further information, the following references are
suggested: AFR 160-3, Hazardous
Noise Exposure, AFP 32-2-1, Noise
Codds. Codds.

suggested: AFR 10-3, Hazardosa. Noise Exposure; AFP 372-21, Noise Guide for Air Base Commanders; AFM 160-1, Medical Examination and Medical Standards; Audiology Hanfouts from USAF School of Aerropace Medicine; and Texthook of Otolaryngology by D. D. DeWeese and W. H. Saunders, published by C. V. Mosby Co, St. Louis, Mo, in

1964

quencies (five hundred, one thou-

to NOISE exposure, but forty-right

hours in a quiet environment will

smally petern that individual's

hearing threshold to what was pre-

viously normal. Repeated exposures

eights five dh over several months

or years will eventually cause per-

manent hearing loss because the

cochies has been damaged beyond

renair. Usually this loss is at or near

four thousand ces. Continual NOISE

exposure will extend the damage.

however, to both higher and lower

frequencies in addition to increasing

the loss at the four thousand cos

frequency! The lowest frequencies

are affected least. Considerable

damage can take place before an

tered until the hearing loss is greater

than thirty db in the speech fre-

"ADC'S GLOBAL CAPABILITY"

The 318th FIS at Osan, Korea



The date, 9 July 1968, will mark five nouth of TDV for the airmen and officers of the 318th Fighter Interceptor Sepanders, the first Aerospace Defense Coremusal F-106 unit to deploy overnoss. It was not too dengt ago that many USAF "Superir's seeffed at the concept of Global Air Defense, and with the F-106 no less ADCs excepting with the F-106 no less ADCs where were best located across the street were best located across the street they are, five thousand miles from both, with the best F-105 OR rate in the Command for February, March, April, and May. It the thought crosses your mind that seene of the muchiness are not up to par, worke invited over to five them and

There are several good reasons for this. Foremost, of course, is that when a unit is TDY, something occurs that unities the outfit and inspires the men so put out their best. when needed and just give 100% everyday. The absence of the stateside attractions no doubt helps, e.g., no commisary runs, hunting and

For many men this deployment, sudden and with almost no notice, presented personal precitions of no at a small stature. Five of the nicerews are recent setuments from the Fin-East. Over 70 niment had also jost to returned from SEA, Some of them had no time to new sentide.

....

inched or find housing for their nilies. The hardships inflicted by the suddenness of this operation were many. It would do little good to expound on them here. Suffice it to say that, as in all large scale unit movements, they encountered the usual number of family criess and

busted bank accounts. Being designated a deployment Fighter Wing maintenance organiza-January 1968. But implementation was something else again. When the order came through, it deviated from the basic plan to the extent they had The final days of preparation, packing, crating, shoes, processing, were 18 hour days full of frustration. changes, regrouping, and masterful No time was allowed for lengthy servells and bon voyage parties. were not told their final destination, but the Pueblo affair gave them a clue. The first destination

Just trying to plan the navigation for each leg became a tedious and frustrating chore. Each day beought new changes. The unit finally relaxed and watered in out. When they got within the 46-hour period, they started seriously to work with the navigation computer printious and to prepare the pilots' flight planning materials.

There was Bulle concern about the

was Naha, Okinawa. From there they would be redeployed.

readiness of the alectives. The flights across were routine formation, serial refuelting, and recovery. They do point out with great pride that all 318th FIS aircraft mode it off and were in first class condition at the tanker rendezvous. The airborne spores called for by the plan were not needed and retreamed to the





My hadr's 18 000 miles from home but my mind's sent

"Johnny-on-the-Spot" and the Six hours after departure, Dia-

raced Head loomed on the horizon delightful. but dispersed by the thoughts of the morrow's icorney.

Okinewa was a sadist of the moont 10% longer it was, learning on that seft. houseless survival his so thoughtfully provided.

gine-wise was near perfect. Those casuation over that length of time need not worry any longer. Some hinds took little or no cil at deutinaterm were all cond. Some



connect. But none council one or difficulties. Some pilots just and to make more bookure than others. That at least helped kill time.

Arrival at Naha was a glorious

face they poissed the direction to

Korea. This trip was about 155

hours. The "Biots" around in a ly below zero. The alert shack, opsbuilding and PE section were still Ath pilots and assured coray who







It foll "Boar" Consents their flow conducts marries Electric marries



rii camanan

month of alert at Osan. With followings, the cold well still seeds them. Ascendt, packed on spen them, Ascendt, packed on spen shart, deal batteries, and secondered wishfolds. Crew chiefs had to run the ground power outle continuous to the provide power outle continuous to the provide power outle continuous and the second to the provide power outlet outlet to the provide power of the provide power outlet outlet to the provide power outlet to the

If this the is beginning to sound as in little meldermatic, we beare to add that things at Oam are greatly improved. The worder-since Manch has been warm, rarmy, and day for conditions have developed into conditions have developed into a through self-dely. They will have no Accopace Ground Engineers or the other conditions have developed into the conditions and the conditions are developed into the conditions are developed for the other conditions. The affect containeers in still heavy, but this's the mance of the gener. The flying is great with every variety of training mission including close air training mission including close air same printed in the size of the first interval and the small air defines interval.

curculus. The unit concentrates over his of their training series to ACM continuation. They was been applied to the training series to ACM continuation. They have bed easily standard serial control against the 15° (RONAF), F-4, F-102, and F-103. The combinating secondar training against the 15° the combinating secondar training against three interests are a tobase to the ACM programs where in ACM. The interceptors are under the operational control of PACAF, he takes there are several other headquarters account that come a clause of them.



arbere to ADC manuals in their training. Most of the headquarter people are TAC types with little or no ADC experience; some education was necessary. GCI control is performed by ROSAF personal monitored by USAF detectives. The controllers are good and little difficulty is encouraged when the little given back in time to ADC before the result of the people of the result of the results of the people of t

tern and overall communications need modernization.

Base facilities are fairly good, a 100% improvement from the Korea you old heads recall of 1950 - 1954.

Bods, and course, coloresis has

Pools, golf course, cafeeria, base theaser, radio station, TV, and clubs with floor shows twice as week are available. Off-base recreation is till Merele is high despite leng bourand news-ending alert. Both pilots and measure-ending alert. Both pilots and measure-ending alert. Both pilots and measure-ending alert. Both pilots and the Eclibs and the reserve with

units over there. The 318th FIS has not the TAC fighter troops that ADC has a first line fighter aircraft and aircrews who know how to fly it at its maximum, day, night, and in the maximum, day, night, and

It at its maximum, day, night, and in the weather.

All in all, this first deployment has given the 318th FIS, ADC, and the Air Force a great deal to think about. Some conclusions can be

reached, and could be stated thus:

• Global air defense is a proven concept and should open up new vistas for ADC and other overseas commands who find the need.

 The F-106 is the most versatile fighter in the USAF inventory. It range, endorance, performance qual lites, ECCM features, engine per formance, all-weather weapons con the system, and serial refuelin capubility earn it that accolade.

course, you don't eat, don't drink, or don't do anything that's fun.



SSgr Dale Borr and TSgr Bill Miller,





Here's a story on what can happen when the corriort and security of because of an energected multipaction, in this case the loss of niroraft control. The ejection can be conrearrand safety. But that's as far as it coes. There was a lot of copportunity available for a less fortunate

The rilot of an F-102 weet out to his aircraft wearing the green his lower right lee nocket, he had put a leather case containing the ment. Since the mission was to be flown primarily over water and the would only get in the way if he did it all the time. After preflighting the sircraft, he climbed into the cocknis. giving the ejection seat hoses and relets do since it's almost impossible to determine whether everything is booked up correctly or not. An interesting sidelight here is this particular aircraft was recovered at another base because of a broken throttle lever. A maintenance. man was dispatched from the home vival kit and election seat were rethorized personnel. When the threat, tle quadrant was replaced qualified

Before the pilot sat in the seat, he

inserted the gold key, and made the high impulse seat. The start, taxi, and takeoff were normal. While pretty sensitive and later, during a WSEM pass, the aircraft went our

the seat, redled his feet back, rest his head against the headrest, and was ejected out of the aircraft without feeling encessive forces. As he ine coarward from the canopy of Shortly after petting into the stream, he received a severe blow where is received a quality control his beliner off and threw him out of the seat. The thought crossed his senarator was a little violent. He

found himself freefalling through the air, so he stabilized himself in a with arms extended outward. After waiting a short period of time, he his less together, graphed the "D" ring with both hands, and varient shock. His believe continued downward as far as the oxygen bose would let it go and then it spaceed back. He caught it between his knees preserver and fastened the stran

across the front. Then he reached

back for his survival his and for

missing. He had lost his right glove ring ejection and could feel that a good portion of the back end of his flight suit was also missing. His right upper arm was bleeding bally.

he light wit was also missing. He right upper area was beeding body. As he approached the water, he put his arm theough the left riser, copered the left gasted, and put his required to the left gasted, and put his release the left gasted, and put his refer his the water, he polified the release the right side and puddied away from the clean. His heliant was still between his know, so he pictude away from the clean. His heliant was still between his know, so he pictude away from the chain strength of the clean of the cle

to be wrapped around his neck. The ends of the shoulder harness and the gold key were still connected. After paddling around for a while, the ridet decided to get the survival

out of his right lee pocket. It gone. Realizing that he might need a signalling device, he reached light. He thought of his URT-21 beacon radio and tried to reach it. but couldn't. He didn't want to unfasten his chute harness since the holding him up. He located the white flexible antenna coming from the beacon and vanked on it booing automatic function didn't work. The pilot retained his boots during the ejection. They presented no reoblem in the water and keet his feet warm. He took his left glove off because the water made it slippery and it was

the water made it alippery and it was difficult to operate the strobe light. A wingman came down and circled overhead. About a half hour later, materious rescue aircraft arrived on the scene. A helicopter flew over the pitot several times and he waved the strobe light without any alarent effect. The sca was choppy alarent effect. The sca was choppy



and the acception part is the operaces of heading arts from the downed pitst. Another accent proposined the pito's position and notified the pito's position and notified the believepte. A sirry was forecast, but because the signy to his arm began to hart by this time, the pitot couldn't get into it. A thicospier coressual suspect into the water and helped his into the coiler. He was beined up and from back to a hospital. The specie is the water was about two beers and thirteen minutes.

the retrospect, it is not as all diffitions of the place, and the second of the which could easily have resulted in loss of the place, and the second of could be second or the second of the rescue area, only a mirache would have seven have any other second have seven have a post or second their which he takes for gustand, like the engine will ran properly shoring the fight, the gaze will reatryourse will function if medical What happens when he suddenly workers will function if medical What happens when he suddenly recessible which be constrain on so leasily for see many years? It both down to this his die may depend on the may be the second on the second of the

sense to be prepared, regardless of how inconvenient or unnecessary the

extra effort may seen. The only orientee available for investigation and analysis was the plots't personal engineers, and plots't personal engineers, and plots't personal engineers and state of the engineers and the engineers and the made. Examination of this equipment indicated that a flush fine or sailar apploains of the engineers are of the engineers to ejection, the fire had to have time to but her the plot bilitatic hour time.

to allow them to purt. The five most probably ignited before the seat left the aircraft.

The possibility of rocket mallancin the 55

repolations of this had nocurrent, there would have been recide or
the earth of the control of the
propellian or propellian recides on
the equipment which was recovered.
Tests showed there was rose. The
sams probable explanation for the
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when the kit was necessed and remarked by commission presented prices to the ejection. Examination of other aircraft contesting the conorder aircraft contesting of the conorder aircraft contesting of the other aircraft contesting of the con

meeting straps.

The lap bett bullistic hose was broken by the force of the explosion and when the initiators freed, the pressure of released gasses inflicted the injury to the plack's arm and deposited residue from the bullistic cheepe on the forearm. The blow to the bock of the place's head could have been caused by safe/man in-volvement or concepy, survival kit,

have been caused by sent/man involvement or canopy, survival kit, or arisonom defeis from the alexast. The recice train believed that an orange flying suit would have greatly increased the pilot's chances for an easiler pickup because the green flying sait which he was wearing and thended with the wane. Had the

authorities were convinced that injury to his arm would have been considerably less severe and that he would have been more confectable in the 52° temperature water. All personal signalling devices

All personal signaling devices which were put in the right log pocket were lost. All units have now been solvined that the five rausdatery items are to be certified in a certain tems are to be certified in a certain member's flight deleting. Packets or kits are easily lost due to their neight. The new ADCR 501-7, seen to be patiently, reconsensed that a vest be used on all ejection soat

member's flight debting. Packets or kits are easily load due to their weight. The new ADCK 501.7, soon to be pathlode, reconsensed that a west be used on all ejection seat flights since it is supporte to flight debting pockets for retaining equipment. The vost has not been such smallerey because some combinations of craw nearbers size and couple configuration precised to use. The contract of the comtract of the contract of the conract the URT-21 Journal become. It's untikely that it would have aided in the research. It was determined.

the beacon was inoperative. Further investigation revealed that the piece's purachate was 11 days overdue for repack and that the personal equipment section was unaware of the 21month shelf life on URT-21 butteries. Consequently, all batteries were over age and when tested their output was below minimum acceptable.

The moral is this ejection episods speaks load and clear for itself. You never know the time, day, or place when trouble in bounches (see Down and Out, this issue) will force a fast exit from the confortable "greenhouse." Then, a new adventure begins, the outcome of which may very well depend on aristales and

gins, the outcome of which may very well depend on artistades and preparations developed long before the moment of truth. Survival is an extra-ericky business when all you have left in your that and spain. So, were the jacket, distribute the goodies, and take nothing granted.





bands of "Sidewindors" for the weapons storage area

Located some 180 miles every from their home base at Heranstead AV. Force Base, Rivolds, in Detachment Complete States and the Complete States and the Complete States and the Complete States and Conference Comments and their states and their st

At these DOBs a full time NORAD







The 319th Fighter Interceptor Squad-

ron's Commander is Colonel Walt Maylar whose number one "honcho" at tinuously exercised as is the whole syst tem. Routinely two F-104 "Starfish ers" deploy on a daily basis to the DOB from their main hase while rossion. After their recovery and turnaround at the DOB, the flighters load



Bet. 1 main facilities: Trailer #1 houses CAC and alart every levege. Trailer #2 has





maluations steps additional F-104s into e DOB for sustained operations --and rafer aircraft turnaround, weap-











"SOMETHING ROPPOWED SOMETHING BILLE"

"Securing Received."

It is the exceedy inspection? Into it print several.

It is the exceedy inspection? Into it prints a finite or in the control of the c

that save even notes a security saring our inspection. Ver, Virginia, we look for and report good times in our report. You probably don't believe this after reading one thus books and sense of these article. We re-port these pood items with the intended purpose of spending the "good wood" so clear sents. These good consuments aren't covered in much depth as space in likelifed, so you saw have to coveract the unit to obtain further details.

So you wou't think we are pasting up anothe significant of the property of the p

note, fir's see what some of the units are doing that may be of value to you.

The Combat Afert Creater personnel at the 48th Pighter Interceptor Sequelone, Griffins Art Force Base, New York, but devised a single noting both that greatly added their training programs. A Phelaglas assure sheet, with belief for correct answers, was prepared for each better and the programs of the programs of the contraction of the correct answers, was prepared for each which belief the programs of the programs of the whole of the programs of the programs of the pieces.

incms were inserted into the test bein. The test taker punches his selected answer on the standard newer sheet and immediately knows whether he has selected the correct response as the pencil will punch through the paper and not answer sheet if correct. The Cornec Canadas Ferces Base being a training

mode-up of their base which was used in security police training clauses. The mode-up was an excellent aided training clauses on security after term deploymedinates loads, and consigney security operations. Sitdents were allowed to activity participate in training clauses by weeking on practical problems at the training mode-up.

The LaDb. Habour Gunne, (ANG) Efficience May

Force Bar, Trans, constructed as excident system for marking the benefactor of their dark, mass load, and terrurrored areas. Individual standsions were made of plantic rubing which were inserted iron a buse plate. The base plate was boiled to the ramp at predesignated locations. A faulting red fight was statisted to the pay of each standsion. The wire precising the current to the lights was statisted to the expert and offered boundary. The system was relatively simple, light world, and their practical control of the con-

The 57th Contrat Support Squadree, Paine Hield, Washkajten, hal large pictures of the custom data plants posted near the security hadge rack at the entry point to the alest oness. Energy centerities used the pictures in rapidly identifying the pilest during seasonables. The 133d Fightee Group (ASCI), Des Mohies, Menicipal Airpere, Jovas, had construend an excellent planting heart for prother radio estilation. Fing were surveil along the board melocation of the surfece of long.





Simple, but effective, fleshing light security boundary conceived by the Ellington AHS.





security people.

his boord.

These are just a few of the many good ideas we have observed. Looking back through the dusty files of old that books, one can see the writesps that could have been avoided if supervisors had instituted the good ideas outlined above. sees for the secontry after team to arrive at the secont.

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"Sowething Blar" There has been an increase in the number of deficiencies moved in recognitive perimeter security. The

variety sports, along the personner of the buse. A test and, a provided portionary gain of each be decided for over 30 missions. He had been releved from post bot sucher counts of the state of the state of the state of solet tests for his state keep with the was not on post, alore tests for his state keep with the was not on post, for the state of the st

TOM WILLE, Colonel, USAF

POINTS

This section of the magazine has been designed for you. Be you a headquarters type at any level, a commander, safety officer, pilor - interceptor, transport, light aircraft - rader levercopt officer, mechanic, a civilian in industry, weatherman, destee, designer, or tedian Chief.

We salist year ideas, items, nates, photographs, sketches, and pictures. The writing should be less than a paragraph - preferably a sections or two. We would sincerely appreciate year inputs mailed directly te: The Editor, INTERCEPTOR, Box 46. Tex 485. Capacide, 80012.

This command recently separated or necleon involving positio (DOS contention leadings, A B-3 cere, on 1000 corporation of the contention o

How much electric current does it take to electrocute a person? Only one-terth of an ampere for a second or longer. Most appliance circuits handle at least 15 amperes. (WGMME-Q)

Hot Starts. . . Type Jet A-I fuel is not an a'hernate (wal for T33)A, F-IO2, and F-IO8 series aircraft. Due to the low vegor pressure of the fuel it may cause engine hamp up on start and the EST to rise beyond limits. When used as an emergency fuel and a successful start is made, normal operation can be expected. WGMME-GI

May 15, 1936. The War Department gave high priority to research and development of a pulse-echo method of aircraft detection. (ADC-PS)

INTERCEPTO

T-JJA Fundege Feli Quantity Indicators.

Current practice of many organiacurrent practice of many organiaguantity indicators from T-JLL are
as in error. The maximum indicators should be 88 gallons. To, LJSA-2 purepass, 44-40. Intell. The final adjustment rest
department over could practice in deviation of the organization of the control of the country one D-JLL are in proceedings of the country one D-JLL are included as the significant of the country of the count

bless is a cituation the Auditors bean been picking up in their inspections: Refueling personnel and crew chiefs are having problems finding the AF Form 1239 Aufuals Identarilate the use of which is now mandatony when invited eviation POL products. It is usually kept with the AFTO 781 binder, but paragraph L73 of T.O. 00,20,5 says this about it: "If the AFTO Form 781 hinder is feequently removed from the aircraft for debriefing or other purposes during the pariod when the aircraft is normally refueled the local commender or maintenance officer may determine a suitable location in the aircraft for storing the one that makes the idententate readily icing personnel and which is not subject to temperatures in excess of 165 or below -65 First prior to use of the identaplate in the imprinter," If the identaplate is located other than with the AFTO Form 781 binder, the "location information will he stanciled on the left side of the fuselage below the aircraft identification

Paper clothing may become a fire hazard if laundered, drycleaned, or soaked by rain, reports the U.S. Public Health Service. Such treatment may remove whatever flame-retardent finish the garment may

T-33A Wiring Changes. . . These techsical order compliances are being conpleted during T-33 fmited IRAN programs (rewiring) as scheduled by AFLC - T-0, IT-33A-638 direct resource of the studeat lockout system for aircraft scrief sumber 50-385 and subsequent. The noticeable changes will be the removal of the circuit breakers and button

• TO IT-134-619 provides an improvement in DC power distribution in aircraft serial number 50-385 and subsecuret Modification includes removal of his tie relay circuit breaker in the forward cockpit and on the engine section junction box, the external power interlock circuit breaker will be removed. . T.O. IT-33A-640 is being scheduled for all T-33A-15 aircraft. The present inload capacity and relocates the main inverter DC feed wire so that it will not induce undesirable transients into the communications system. The main inverter circuit breaker will be removed from the right console is the forward corknit and installed in the radio "J" bos on the main inverter rack, (WGMMEQ)

April 12, 1965. A Viet Cong mortar attack on Tan Son Nhut AB at Saigon wounded 10 members of the ADC Big Eve detachment. (ADC-PS)

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F-102 OUT OF CONTROL
The piton of a fight of three size
extra wave briefed for a ratar inserexpert makes. From the piton of the piton
to the piton then were
ever included. The piton then were
out to their aircraft, All aircraft
equipment fractioned properly for
the author two poten except that
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except foot off in formation while
marker three tools. Of second sepating and joined up on climbout.
Close formation sew markitalent of the

15,000 feet and tactical formation to 37,000 feet.

During the climbout, the pilot of the number two aircraft felt that his sensitive because he had a slight amount of difficulty maintaining proper formation position. He assurned the aircraft had the pro-Hen vulve type flight control system which is characterized by sensitive controls and he therefore believed the aircraft was in satisfactory condition. The other two pilots stated that his formation flying appeared normal. After reaching 37,000 feet, the flight leader signaled his wingmen to fall into trail position. The loaded on rails, 1, 3, 4, and 6. To

avoid degrading the quality of the

evaluator checks on the scheduled

evasive, ECM, and chaff target, the

craft to attempt two WSEM resucce.

The first pass was completed with-

decented to 35,000 feet for the second pass. He leded on at approximately 3 NM, selected after-burner, and accelerated until the overther enabled about 50 knows is which time he terminated after-burner operation, fedicated Moswas 88 with approximately 300 KtMs. The sterring det was errating and the pilot thought of aborting the mission. As the attack progressed, he applied back sick persuste to try to conter the dot. The

out difficulty using the front buy

An article and the bottom of the control stated as exercise type roll to the right. The inflorate apparent to roll about the longith. The inflorate apparent to roll about the longitudinal axis, to roll about the longitudinal axis, the control of the control of the longitudinal axis, the longitudinal axis of the longitud

The pilot started a spin recordlecked his shoulder harness, and therefored back. He retained his tanks for a short time, hoping the airplane would recover; but it diel'st, and he then jettisoned them. He observed the tanks float by the occipit, in an effort to clean up the airplane, the pilot used the procedure to retract

they were still down and cousing some problem with recovery. He selected stake position, do-armed, and hit the retract button. After this he neutralized the controls for a short time and re-applied the spin recovery with half afteren into the direction of spin. Still no response.

At this point, the pilot observed.

the tail pipe temperature climbing out of limits even though the theotie was retarded. He shat down the engine so that it wouldn't be damaged in the event a spin recovery could be effected. No other (engine or hydraulic mallunctions could) detected from instruments. He followers to power to his radio and put the emergency AC on the bas. The engine was midmilling between 20,10%.

Intermittently during the spin, the pilot attentional courses and reapplied the recovery procedure with our roads. The simped distinct read area throughout the macroser. Several times the simped distincted area throughout the macroser. Several times the spirit though about palling the dragshate handle, but headed to wait. An about 12,000 feet, he hand one of his wingreer coiling for him to spice. Realings that he had distincted tag, he institute halious procedures at about 11,000 feet and left the increast about 10,000 feet. The limital direction sequences

appeared normal to the pilot al-

difficulties after leaving the aircraft. Subsequent investigation revealed that problems he encountered in the support and survival equipm

ial ejection somence, it was conered of sufficient importance by the INTERCEPTOR to be the subject of another article in this issue entitled. "Ejection Under Fire." During investigation and analysis.

order to spread the word around gated follow in order of probability:

1. Erratic electronic signal application in the nigh and/or yaw damper system. a. Improper input signals from the following sources could cause a

serious correct surface deflection. (1) Failure of the roll rate eyro or roll rate channel in the demodulator. Gyro failure could produce an erratic signal to the ailcron. rudder yaw control circuits. This

erratic signal should affect both ewons and the rudder. The result At he a coordinated sell in the signal. The rolling action uncorcorrect could result in an aero-

(2) Failure of the pitch evroor pitch channel in the demodulator unit was discounted since the erratic signal should provide only a nose up or nose down signal, affecting

both elevers in the same direction of movement. This would only inculibrator amplifier could produce on erratic ritch or vaw correction to

the right elevon that could not be overcome by the application of an orposite aileron input by the direct manual mode of operation. Furthermore, the application of opposite aileron would not overcome the total movement of a pitch signal (right ator up) thereby resulting in an

of a pitch condition which may cause the attitude of the aircraft to

buck notestioneter in the eleven servo actuator would prevent the convision of a suit of food back signal to the cultivator amplifier which would then allow the servo actuator to keen the control oron urril full deflection of the surface occurs. Again, aredication of oppoual mode of operation would result

in the "up elevon" condition described above b. Each of these malfunctions can normally be overcome by dis-

distribs specification of savailable tries 2. Mechanical failure linkage breakage fore and aft of the "T" miser bellerank. a Linkage failure forward of

the "T" mixer was discounted. This type of failure would result in a "free stick," i.e., slopey-with no centering-in either the pitch or roll axis. Since the pilot indicated the stick felt normal but not responsive.

"T" mixer assembly was exertually discounted because of the surposed acrodynamics maneuvers encoun-

tered. However, to simulate a failure in a mechanical portion of the system the eleven push/pull rod was disconnected and vibrated by hand. Whenever the eleven was slightly above the neutral position, the elevon eventually would creep to the "full up" position. This condition would normally cause a climbing roll, but in historical cases where

controls were severed, the aircraft

performed a quick wing over and

function, the bolt connecting the now commend Norbine happened until a stick movement was made The stick movement a very light flect to the "full up" position since the offerted valves had four their

fixed reference point, which prevented a mechanical follow-ur "stop" action to the control valve. It was also served that a mechanical failure would generally cause on uncoordinated maneuver. The pilor's testimony indicated that the induced roll started slowly, increased in intensity, but appeared and felt com-

system failure, and/or contaminaa A complete component failare would undoubtedly lead to a system failure or loss of hydraulic pressure. A component failure should cause loss of hydraulic fluid or pressure. If an internal failure occurred, generally only one system would be affected and control would be available through the other sys-

tem. Furthermore, loss of pressure An internal failure with a resultant fluid byross should also cause activation of the overheat light. b. Complete system failure, one or both, was discounted because of the complete lack of warning system

activation. It was considered doubtful that all indications of system failure, i.e., light activation and pressure gauge, would simultaneously malfunction, Furthermore,

and secondary systems is highly improbable

c. The probability of system contamination was thoroughly dis-

tamination. If contamination was a foult it was served that it might have occurred later in flight Classically, aircraft systems which are contaminated usually cause erratic hydraulic valve operation, wallowerally results in overheated fluid. and normally causes hydraulic pressure fluctuations.

4. External damage. a. Loss of WSEM/bullast inflight: recorded instances of WSEM loss in flight show no damage occur-

b. Though minor damage may be incurred by extension of launcher pressure warning light Loss of

possible, this was discounted

5. Internal fire and explosion. explosion which caused control avatem multunctioning is possible but unlikely. Fire and/or explosion which was previously discussed fire carries wise damage could win he responsible for the generation of greatic electronic signals to the year and/or pirch damner system which of the damper system. Fire in an

ation of the fire loops sidered to be an erroneous electronic

signal input into the nitch and/or van damper system of an undetercontrollable managers terminating in a flat spin.

safety officers'

FIELD REPORTS

F-101B THRUST FLUCTUATIONS. Aircraft was in cruise flow fluctuated 300 PPH, EPR varied .1 in response to crease and decrease. Pilot varied nower setting and lower power settings. Precautionary landing was made The airrest has flown seventeen times since then with

F-106 STUCK THROTTLE. Thromle stuck at 90%, the aircraft engine was shut down using the fuel shut-off valve. Cause: A nut and bolt on the throttle friction F-106A WINDSHIELD. The right windshield outer layer crecked while cruising at FL 350 at .93 Mach. An aircraft emergency was declared and a precautionary landing completed. Investigation revealed material falliws of the windshield from an unknown cause. The

F-106A Oil LITE. The oil pressure low warning light flashed several times at 49,000 feet with military power. The oil pressure was observed fluctuating between 35 and 40 psi. An aircraft emergency was dedown, investigation revealed the engine oil pressure transmitter was defective.

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Auadoud you speer revoused yournifer uebfirm you upredicted in promotion was accomplished intrespetion numed off and lending accomplished Ust, Cause, Seat ott, pior feit extreme cold on seat, Uxygen system F102 COLD SEAT, Approximately 5 minutes after faxe-

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security and trode for lemon sew light betselve sew after fateoff at 23,000 feet, the AFCS and although holds FIGUR ANGLE OF ATTACK TRANSMITTER, 160 minutes

landing without further incident, Cause Facton The szuce descriptions de la principa de la precentionary prior year river cover condition or gees, the lower aux highington ares e merdo or apem arow sidualite ire ureur une sur (Areupou populare red) ureur subu pue esou eus 'seeb busamos updo 'buspues dous sos sos uses 1-23A UNSAM GRAK, PLOS émend normal trattic par Appendig normally

sous sey ways pue paudusoday avan speet speet ware tound looped over the nozzie position indicator eventile lending, leads to the fuel quantity indicator cared an emergency at that point and made an un--ep est spunod ouez Buyenpu; Kasuenb jenj perou fuel remaining, After rolling out on downwind, he sour of flight, pilot entered initial with 1300 pounds FIGA ZERO FUEL GUANTITY INDICATION, Affor one

tormed win to further problem. limiting range. Throstle was re-rigged and PCP peroperating inhermittently in and out of the temperature fortnoo leaf oft ni betiusen dollw gin to tuo elitoyiti buscarujouary landing was made. Maintenance found mal. EGT and thrust fluctuation occurred again and non of beniutes neal the Vittememorn OVS to beniem sudden drop in EGT from 670" to 570"C. EGT drop befon toliq ,rbeM 9, bne teel 000,01 ylesemixorqqe Flota THRUST RUCTUATIONS. During climbout at Street excessive bisk in the right main geer uplock. with continue on the beautiful most model control. An where gear was cycled, indicated down and locked evolved, arcrell returned to base of departure dropped, indicators showed gear up and locked. Flight the 12,500, 94% KMS. Right man geer assenting route to norse stenon, ten miles north, prior leveled-

-ne esed a betredeb therain, Altored a base en-

Distriction baseiges marks assure mon teacher parties outperfor record menurs releved on Ard appear regulari dandaro diametrania mas casametrania dating sychemic Cestes: Write to 30" Hittle swinch croken.

MICEPH was recovered at home base without further Survey place expend obserd annual nuescabl training FIRST SHEED BRAKES, Speed Stekes would not fully remove to nonninem on more namental made coording to the engine bay was then replaced. PCF was

supplied of the highly teed from the indicator in the as sedus vocased describy diopped to one-her for un it usew se usede peudspurseus connu pue AA coax lead repreced, FCF was performed on 10 Feb-Agg quibus pue paceidas pue pavouras sem autilia eserve studies around a bed therone stiff JobON to not of the dip stick. All flight line personnel were briefed "year to esned aurumesed or used unds sam Arquesse each ,enil edi oini yew edi ile bedaug ed xons qib em in secon and other some dip and gaming in becomended. If

Appreciation of the same that being the in best day and -preduct autilia aut in institue sew xeat tio aidezio white thight and indicated 26 pints on the digit with our incident. Oil quantity was checked immediately Ad one-half for remainder of flight, Lending was withat Mech 1.7. Indicator remained between one-third FIGHY OIF FOM FEAST INDICATION, OIL 1972 CHITE

safety officers'

FIELD REPORTS

TR-102, DEAD CHUTE. Drag chure failed to deplay on landing following a transition frainling mission. Inspection revealed no malfurction of the drag chure or the drag chure equipment, the pilot had failed to pull the control handle so the full all position due to the fact that the TE drag chure handle is harden to operate be cause of the filinkage on both sides of the cockpit.

Throat, Wester Gata MonCarlons, When he gas was executed the basics, on useles indicates were accessed to the basics, on useles indicates were approximately an experimental control of the service of th

T.33A, SIPHONING FUEL Fuel began siphoning from the right leading edge tank on takeoff. A precontinrry fanding was mode, after which it was determined ust the fuel cap was loose. The cap and filler neck were examined and were in good condition. A positive locking of the cap could be felt when it was a.000 feet, both prices in the control of the contr

TARA SUMES IN THE COCKPUT Climbing through

F-104A, THEUST FLUCTUATIONS. Plot felt empires and naded pen fluctuation from 95 to 100% rgm with fluoritie in full military. Rign variation was accompanied by ECT and nazzle area fluctuations. Throttle was nesteded below the serperature limiting range and all fluctuations ceased. Precautionary landing was without further incident. Aurena's was no no trip and but malthoution could not be deplicated. Temperature applifier was registed as a most probable case of probable cases of

TF-102A, CRACKED WINDSHIELD, Twenty minutes of

24,000 feet, when the left windshield paral failed in a clear spide-web patter. Emergency procedures were followed and a procurionary lending was rade without further difficulty. The NESA corrol to so was checked and no discrepancies in the NESA system were found. The failure appears to have essolided from an internal when of the NESA wiring in the parel. The failed panel was replaced.

ASAA RILL WARNING. File was property to termine a ministe after 5 bean and 27 minister of flight flas gains elemed to fly a visual parties will be a file element to fly a visual parties will a file and the property of the file of the property of the file of

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F-104	0	
F-106	4	
B-57	0	
EC-121	0	

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