

## Interceptor volume 11 number 10-11

U Gon Arthur C Anna

All power, even the most despotic, rests altimately on

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departments

MEMO FROM THE CHIEF OF SAFETY

DOWN AND OUT

CHECK POINTS

SAFETY OFFICERS FIRED REPORTS THE WAY THE BALL BOUNCES

WE DOINT WITH BRIDE

special featurer

COOLSTONE VOLUNTEERS

THE BORED CONVENES SMOKING - IS IT WORTH THE RISK?

LIFE SUPPORT TRAINING - A LITTLE EXTRA

The requirements for ewend of the

OUR COVER

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## memo

### from the CHIEF OF SAFETY

### WOULD YOU BELIEVE . . .

That the majority of our accidents these days are precipitated by maintenance error or materief allure? As a matter of fact, during 1968, maintenance/materielf failure was the starting point for 17 out of 22 jet accidents in ADC and our ANG units where the cause factor was known. Some of them were ridiculously simple, such as UHF failure and A/B eyelds failing to close. From such simule bestnings, the pilots failed to ana-

lyze the situation completely and painted themselves right into the accident corner. During the past three years, statistics show that 78 percent of our accidents were precipitated by maintenance/materiel failure.

The nurrose here is not to noint out that our aircrews

are failing to meet and solve the problems which face them. In general, they have done a magnificent job because in 1968 alone, they successfully handled more than 2,600 precautionary landings and in-flight incidents. But what is no disheartening is that some drop the ball

so completely. For this reason, I estimate that we have experienced six accidents this year that we didn't deserve. The message is this:

The message is this:

Analyze your problems. If things start going wrong, interrupt the deteriorating chain of events — break off and
start over. In preparation for this, know the symptoms of
various materiel failures. Reason out beforehand what you
would do under these circumstances and follow the pre-

scribed emergency procedures.

COL H. C. GIBSON



Wall Charles

# 13115

One of our Safety Officers writes: "The July IN-



which told of shortness is morning and as a country

payer OCA service. The corrective action suggested? An excerpt from the second to the lost sentence says. ". . . it is incumbent upon the pilot, the mission super-

to correct this reserving shortner to do so? Why isn't it incumbers upon higher command to give us a good safe IRAN? Why isn't it incumbent upon these same

depot's mistakes or with work that should be done at everything flows: the pilot? In the end, he is the guy who has to take this whole system of shortages, poor headquarters, and moor planning, and try and make it work."

We can't help but sympathize with the sentiments of our safety man in the field. Contrary to the oninion that all bendynarters types are built in a susuage factory. there are many of us who were at one time or another of frustration. But understanding the problem, and wants ing to do something about it, doesn't automatically provide the corpornatity. Head Sheds are sat on by Head Sheds ad infinitum. What may appear to be inaction is in all probability impotency. We can above give savepurhy because it isn't limited by fiscal reins. And that isn't passing the buck. You can't pass what you don't have. Everyone is concerned over the problem areas

mentioned by our Safety Officer, and muny more But

the situation is very much like the one in which an on-

e2. ees

worse. So he smiled and sure enough, things not worse. T.33 GEAR UP. During a low approach, a solo cited noticed a slight binding when he raised the year handle. He first a closed teelfie notion and taken by ottomered to lower the year, the handle wouldn't on down. After

repeated attempts, the handle unfidency become free to move in any direction, but had no effect on year posilower the more easy only and had to load in that one-Investigation revealed that when the landing year

handle became jammed in the "up" position, downward of the selector valve care shaft to shear, allowing gear handle to rotate freely

The near handle was stock in the un position because not be determined, but it is suspected that excessive stresses on the landing gear mechanism over an extended

The main landing gear emergency cylinders failed to operate, probably due to an airlock in the lines which permitted the uplocks to remain engaged, resulting in unsuccessful emergency extension of the main landing

To prevent similar year handle realfunctions in the future. T-33 relots are custioned to adhere to the follow-

- 1. Insure that the year handle release button is fully depressed before exerting pressure on the layer.
- 2. Do not use unnecessarily heavy pressures on the handle while raising or lowering the year or performing the "jiggle" check.
- 3. Write up any unusual feel or operation of the landing gear handle or release burron As for the emergency cylinders not operating



# a salute

in recognition of outstanding achievement in accident free operation.

112 Ftr Go. Greater Pitt

4758 DSES, Holloman

120 Ftr Gp. Great Falls

124 Ftr Gp. Boise

162 Ftr Gp. Tucson

Over 5 Years

48 FIS Langley

148 Ftr Gp, Duluth Over 3 Years

4603 AB Gp, Stewart 147 Ftr Gp. Ellington

103 Ftr Go. Bradley 142 Ftr Gp. Portland 169 Ftr Go. McFotire 75 FIS. Wurtsmith 343 Ftr Gp, Duluth

Over 1 Year

49 FIS, Griffiss 78 Ftr Wg, Hamilton 158 Ftr Gp, Burlington 27 FIS, Loring 71 FIS. Malmstrom

57 FIS. Keflevik

4676 AB Gp. Richards-Gebaur 119 FIS. Homestead 144 Ftr Gp. Fresno 163 Ftr Gp, Ontario





### Coolstone Volunteers

by ROGER G. CREWSE / Chief, Analysis Dividen. Ha ADS

poslutione was well aware, from year poslutions, that when the poslution of the poslution of the southern are saled for, additional southern agreement but been that poslution capecines had been that poslution are get to the wolumer asking point. Now, unsigned at an higher level, the Rock was somewhat I tas bestuate to wolumer affect of course, high but overside to was now at 47,000 for our week the Poslife, 1500 miles wasy from the United States in a B-57, went that it had seemed a pretty good Mea on the time to had wolumered. He are all his feathers

the depot in the United States.

The reasons that Coolstone had voluntered were: one, he needed to get out of the office for a while—the new boss was pressure, gressure, pressure. Two, he hada's been to Vietnam yet, and this trip would serve so bring his was stories partially up to date. They were estimately up to date. They were estimately

tions we're right at the point of no return, and I haven't been able to raise Dack Burn. We should be in range about now, and according to over flight plain, we should make a heading change to the sooth of about eight degrees, if the winds are right." "Okoy," said the Rock, "I'm tuen-

one thousand nesos. He called his

haven't you got Duck Butt on the

Two cleared his throat gently, and

nuviousor on the intercorn.

eight degrees, if the winds are right."
"Okay," said the Rock, "I'm turning to zero nine five now. Let me have the radio compass for a momore and I'll see if I can raise them from up here."

He took control of the radio compass, fiddled with the knobs, but was only able to raise a highly developed static level instead of the signal from the midsty hoat. He want from

antenna to compass and then the loop position, but he could get no signal of any kind.

"I can't trace there in either," said Coebsone, "so I think I'll give them a call. You know, that radio compass wann't working too well before we not to Hickam. When you no

out of sight of land, it quits. They said it checked clay on the ground at Hickam, though. "Call them," said Two, "maybe they can get a fix on us. I'd like to know about where we're at." One keyed his radio, "Hello, Dack

Nothing.

"Are you getting the side to the he asked Two.

e asked Two.

"Negative," said Two.

"Okay," said Coolstone, "I think

the radios are going out too. You know we had some trouble with it just before we got to Hickam, but they said they checked this radio out okay on the ground, too." He tried to contact Duck But one

"Duck Butt, from Coolstone One, how do you read? Over."

Nothing.
"I think that radio is out," he told his navigator. "I thought it was

awfully quiet up here. Say, are you getting anything on the radio compass now?" he asked as he saw the meedle settle down a bit. "I thought I had something," saic Two, "but I don't hear a tone, the static jast got quieter, but if that I

Two, "but I don't hear a tone, the static just got quieter, but if that it him, he's about 110 degrees off of the left side."

"What are you talking about said Condutone One. "I show that

"Roe thirty decrees starboard. What have you got?" "Eve got 110 degrees port," said the pavigator. "Hello Duck Burn bello Duck Batt this is Cooksone One Cookstone One do you read? If you read come in elesse." \*Duck Burt from Cooksone One. if you read. I have lost my radio compass and I would like a DE stoor, riesse." "What does your radio compass read now. Two?" "About 130 degrees port," said Two, "What's yours?" "I show about 40 decrees right, now," said One. "I can't hear a thing on the low a," said Two. "I don't know that re getting a signal or not." If we are cettine a signal," said One, "your indicator is probably right, since time and distance indicated that we should actually be past Duck Butt." "Rocer," said the novigator, very

trees starboard on my indicator."

"Right now you show thirty de-

groes starboand!" said Two.

"Soy" said Coolstone "Run one of those ten decree time checks "Do what?" said Two "You know," said One, "time the

in the back seat ply it with whatever you multiply it with, and then you get time from

One said. "If this totalizer is right. we have two thousand pounds less than we should have at this point. It's going to be close, close, close," "Hello, Duck Butt." he said. "Coolstone One, Coolstone One, come in please," But there was no answer. Coolstone had to resign himself to the fact that the radio was out, the radio compass was out, and he was about a thousand miles out "Okay," he said to Two, "I'm going to start squawking emergency when we're about four hundred miles miles out we should be able to pick up a TACAN of some kind-if our equipment is working. Give me an ETA for four hundred miles and two hundred miles from the coast." "Rog," said Two, and immediately went to work. The fuel situation ways't improveing a bit, and Coolstone sometimes

"I can't exactly remember " said

Cooktone "You time the ten de-

cores and then you multiply it by

something and you either get time

or distance. But a maximator mould

"Never heard of it," said Two,

again, "Anyhow, we couldn't treat it

if we did know how to make the

signal set and your indicator is dif-

said, out loud, "Impossible!"

he able to figure that out "

forest from mine."

"Okay," said the Rock, discustedly. "I'm going to run a fuel check now and I see we're picking up an undercast ahead. I don't remember The Rock checked his tanks, then his totalizer. The hair started to "What's that about two thousand pounds short?" said Coolstone Two

the undercast was going to break up He'd like to know when he named over the coast at least. Then an unsettline thought crossed his mind Since they had been over fifteen hundred miles without a fix he wasn't sure if they would even his tion TACAN to nick it up. Onickly he decided he receifd accent arecthing from British Columbia to Mexico. and he methodically observed off the frequency for each of the coastal After about an hour or more, the EWO said, "Well, we're coming up on about four hundred, according to my calculations." "Rog," said Coolstone, and turned his IFF to emergency It was shortly after this that a rather incorning drama beens to develop in one of the Disection Conters on the coast. A telephone runo at the controller's desk "Hello," said the controller, "This is Red Eye." "Rozer, Red Eye, this is the Center. We have a R-57 execute from Hawaii with a suspected radio failune. He didn't check in with the ocean station. He'll probably be porth of flight plan due to the provailing winds. Do you have anything out theor?" "No. not yet," said the controller "I don't see a thing that isn't identified. But we'll keep an eye open." About thirty minutes later the phone rang again. "Hey." said the weapons director to the controller, "I think I have an emergency squawk out here about two hundred miles off the coast. He's in our area now, but he's just about on the boundary between us and 'that other division'. It looks like he'll drift into 'that other division's'

didn't look at the liquidometer for

three or four seconds. He strained

his eyes un about again to see if

using now. What shall we do?" "Well" said the Red Eve controller "let's watch him for a little while Mushe he'll on into 'that other division's' area and they can take the action. I'll call 3that other division 111

"Roser" said the director. The controller dialed the phone. waited a moment, then said, "Catarnot this is Red Eye We have a track that is in the southern portion of our area and out over the water about two hundred miles. We think he's squawking emergency, but it

looks like he's going imp your sees. We've classified him as pending. He might be a B-57 which the FAA center says has lost his radio." "Rog," said Cataract, "We'll keep an eye open for him," The weapons director called in.

"Hey," he said, "that emergency traffic has finally gone out of our seen Hale blost other division's problem now," And he chuckled a "Rop." said Red Eye, "we outlasted them that time." The phone rang again. It was the Center, "Say," said the Center controller, "we think we're picking up

an emergency squark out there shout one hundred and fifty miles. Have you got anything?" "Rog," said the Red Eye controller, "I think we have got some-'that other division's' area now."

thing out there, but we don't know exactly what it is, If it's the B-57 and he just has the radio out, there is probably no emergency. He's in "I don't know," said the Center controller. "don't you think you ought to take intercept action? You got anything close by? He might have something else wrong." "Well, we could put an F-102 on him." said the Red Eye controller "Maybe we should." descent with very little power.

"I think that would be a good idea," said the Center controller. The Red Eve correctler called "that other division's" controller "Hey. Cataract, how about running that F-102 you have out there in on that May Day squark. The Cen-

ter thinks he might be in trouble." "Rog." said Cataract, "we'll eo ahead and divert the Guard Deuce and out him on that target. Do you "Rog." said Red Eve. "the Center said something about forty-nine thousand feet, and he's doing about

Meanwhile, back in the mess -"How far are we out?" Coolstone saled his EWO. and fifty miles off the coast at this point" said Two

Coolstone started dialing in TA-CAN framencies. He sturned with ones in Oregon first and began working down the court. He nicked un nothing "How far our now?" he select the "We shouldn't be over a bundered

- fifty or a hundred and seventy five railes off the coast right now." "Roz." said Coolstone, and with a rure guts play, he dialed in his destination TACAN frequency. He was absolutely amound to see the postle swing around and lock. The DME stopped its inevitable rotation and much again to his surprise. locked in at 195 nautical railes. He he had an identification. He corrected his course 45 degrees to the

north checked his fact, short a short , short , but he could see that un the undercost. He milled both

he was able to make it known to the Deuce pilot that he was without radios and low on fuel, but that if the DME was right, there was no "Boy." he said. "how about that! We've been squawking emergency here for about an hour and we get intercepted right after we find our-The low seads punic level at which

About a hundred miles out

broken to scattered.

the right wing!"

could see that the weather was

"Hey," said Two, "Look out on

Confistone looked, and there was

a Deuce. After much arm waving

he had been operating becam to recede, and in its place came a slow burn which, by the time he had landed, had developed into a fullfledged fire. As he was taxing in he saw now that the liquidorneter had given him back his two thouse pounds that it had taken away radio compass was working again. and on an off chance, he gave tried the UHF, but it was still out. After he had parked and thee entered base operations, he got a line to the Direction Center, "Look."

he said. "didn't you guys see that squawk of mine? When I was out there I was in a world of hurt." "Yah," said the controller, "we intercepted you, didn't we?" "Sure you intercepted me," said Coolstone, "After I had found myself, and then I had to out up with that Druce all the way down to final. How come you didn't get him

"Ah," said the controller, "We

but everything worked out okay, Reluctantly, Coolstone agreed that it weeked out okay, but it would be a hot day in December before volunteered again for anything.

# the BORED convenes



evidence, or to obtain evidence, for mine pecuniary liability, or line of

understand?" "Yes, Six, all except peculiar re-"That's necessary liability and it

"Well, Sir. I'm not responsible It isn't the purpose here to deter-

THOMAS BURKE mine things of that nature. All we happening again, Nothing weee," "I think I understand Sir. May I smoke? Investigations always "Yes, the lamp is lit. You mean

"I didn't say that, Sir, Besides, your own words, please describe

"That won't be easy because I

T-bird 013. Mr destination was

Parchet AEB for a sofueling stop. I was on my way to Sidewinder AFB of as a target against the 99th Air back seat was filled by Captain Glasshelt who I didn't know too landed at Ratchet and stoved the night. Next morning, we took off

day relaxing for the night go. "Soractime before we went to the seat at Ratchet, I thought I'd give

"After the mission briefing, we

ing somewhat I saked Centain Glasshelt to check the rephreds in the plenum chamber while I moved the elevator. We couldn't find the trouble. We decided to resur on since the binding wasn't all that had It didn't seem to bother Contain Glassbelt's flying area "We cranked the engine at Mountain Ton after receiving our clearsace and taxied on our No other same elevator binding and the heading indicator 180° out of phase in the front cocknit. Mine was OK. Captain Glassbelt took the active and ran it up. At 80% all the

filed our clearance, with Glitter

AFR as alternate. Sidewinder was

forecast to be foreed in on our re-

turn. We launched, flew the target mission, and sure enough, we had

to divert into Glitter. We got to bed late so we slept in the next

morning. We took off for Mountain

Too AFB that afternoon and arrived about dock. By the time we got

"To back up a little bit, at Side-

gauges were in the green, so he released the brakes and labbed the power to it. I got involved with changing the radio to departure control frequency and the next thing I know we're airborne with an excessive nose high attitude. The airspeed was 115 knots and I knew we had trouble. So I took control of the aircraft and lowered the nose to pick up some speed. We had drifted off the right side of the runway and when we touched down for the first time, it was among the tulios. I honked it back in the air and told Glassbelt to suck up the year to reduce drag. No luck! Old 013 touched down again, harder this time, and went bouncing through the boonies with no grace at all. Just before we came to a out of these Glasshelt made it OK too. The fire department was right on the button and not the Naze out is no time at all. But 013 was really busted up. That's about it. Sir." "Major Haddit, are you aware that a flight control problem is a erconding item?" "Yes. Sir." "Why did you elect not to have maintenance take a look at it?" "Well. I checked it out to my satisfaction. Even though I couldn't isolate the cause. I felt that is didn't present a big problem. I have a couple thousand hours of T-bird probably would have grounded the "Major I can't help but think

orienting bult Glassbelt intringered

the canony with his right armost

net and a ball of flame whistled

post my right car I got a little

burned but was able to hotfoot it

"Ves Sir"

"Yes Sir"

the airrigac?"

"No Sir"

one they so desire?"

the canony rone?"

neely to my question."

"No. Sir. 1 ... =

"Were two aware that Custain

"Were you in any way directed

"Is it usual squadron policy to

"Major Huddit, did you have new

"Excuse me. Doc. but what has

that got to do with the line of

questioning up to this point? I'd

like to hear Major Haddie's full

"Sorry, Sir. I got carried away,"

"Major Haddit, please continue,"

"What was the question again.

"It it usual squadron policy

"No. Sir. I'm sure that is not

squadron policy. I did that on my

"I see. How did you drift off

the right side of the runway? The

wind was light and variable."

let pilots . . . , uh, to check

they are on IP orders?"

difficulty exiting the rear seat with

allow offers who think they are on

orders as an IP to check out serv-

Glassbelt was not T-33 qualified?"

to check Contain Glassbelt out in

you first noticed the binding at Sideand the weather was forecast to be poor. You still elected to let Canthough he had never done so before

had been rut through. I guess I

misunderstood. No such action had

"In other words, you were func-

were not so designated on orders?"

"I don't know. It must have been a ghost wind or something. We just "Yes. Sir." "You say you have a lot of T-33 "Who raised the flans?" time. Are you an IP?" "I dida't and Captain Glassbelt "I thought I was, but now I said he didn't." know that I wasn't." "Please explain." "Several weeks back I was told that I was to be put on orders as an IP. I assumed the renerwork

shost hand nossibly?"

found in the "UP nosition? A "I can't speak for the chosts, Sir. I know I didn't raise them." "Insofar as you can remembe

INTERCEPTOR

was the engine performing proper

as it deliverine normal throat? "Yes Sir Insofar as T-33's deliver normal thrust nowadays." "Did you compute a line speed "No Sir, I didn't, I can tell by

\*Did was have a checklist in

"Did you use it?" "No Sir. I have it memorized."

"When the investigators exemined the cocknit, the throate was found full forward and the engine switches some all on. Was the engine running after the siecraft came to a stop or did you shut it down?" "I don't remember. The fireball

ect my complete attention." "Doc. you can ask that question now." "Yes, Sir," "Major, did you have any difficulty exiting the rear seat

with the canopy gone?" "Yes, as a matter of fact, I was according the seat chute and it got hung up slightly. I had to yank fairly hard to pull it free. If you don't come straight out with the

chute it hones up on the lan helt evaluated by success and since adjustment buckles." "Very interesting! Were you aware that Cantain Glassbelt had used his right arm rest to jettison

'Not until later or I would have been out of that seat before the bird came to a stop,"

"Was Captain Glassbelt contemplating ejection?" "You'll have to ask him. But I'm glad he didn't go through with it. If he was I'm no some ball." "Thanks, Doc." "Major Haddir, Glassbelt was not T-33 qualified.

Did you give him a thorough cocknit and ejection seat briefing?" "Refere I cut him in the front seat gave him a quick and dirty briefg on the layout of the switches.

He's flown the back wat before and knows about the ejection seat "What I can't undentand, Major,

is what promoted you to take it igation at sight with a malfuncnon names that it's totally assists the that it's not according to

> "Yes. Sir. But two things influenced my decision. The first is that I've always felt sorry for these GIBs who seldom get to fly the front seat. Second, I figured I could give Captain Glambelt a break and vet be able to handle any situation from the three foot trail position.

> It's not often that I've been right, but this is one time I was wrong. "What was that last statement

> Like other pilots. Due done a lot which were not right according to one handbook or another That's where not being right very often comes in But infement is usually

> exerciting has always turned out OK for me. I never got criticized. This last one blew up in my face and so for all practical purposes. I was wrong." "What you are saving, then, is

> that you've been under the impression that rules can be broken as long as everything turns out rosy."

> "I used to think along those lines, you notice or later. And yet it to nail you to the wall, they can do it, no matter what you do." "How did you manage to come up with that conclusion. Major?"

"Well, Sir, everyone will arrow. before the fact, that rules and rees.

udement. Yet after the fact, any number of little known or less cared about rules and rees can be massaged and interpreted to send the pilot up the creek without a paddle. who had an engine blow up and he tried a flameout landing He hit short and wined out the sear For his trouble he not pilot error Variations of this kind of Old West justice still to on no matter what

pilots are encouraged to use their

anybody says." "And so you think that because there may be a flaw in the system here and there, you have a rectact right to choose the manner in which you crash an airelane."

"No. Sir. What I meant is that there are times of distress when no guidance is available until such time that you foul up. Then, guidance appears all over the place. It leaves a bitter taste."

"I see, Well, there's enough bitter taute in this accident to leave no doubt where the cause factor lies. The lesson is a grim one. Since there are no more questions for

this witness, you are excused." "Bring in Glassbelt."





and its possible effects. It is an at-

Presented herein is a rather short

of the individual. those who do smoke to consider moral support to these who do not

This paper will not have all the

the individual's health.

This augreencement was predica-

death rate well over 40,000.

are among women is increasing readily each year. This increase is quite evident with the increase of smoking among women. Cancer is one of the oldest discases knewn to man, rooted as far back as 3,500 years up by Egyptian physicians. Cancer is a condition in which normal cells have been altered

back as 3,500 years up by Egyption
physicians. Cascert is a condition in
which normal cells have been conlarger seasons of the condition in
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to the c

are carried through the body in the blood stream examing cancer to appear in other parts of the body. Lang cancer in by far the most provident cause of death free cascer. This disease was very rare for early 1900s. However, in 1920 there system a noticeable increase in secupearer as the case of the case of the cigarette. Dr. Alson Ochstern, Vinfeature of Clinical Surgery, School of Medicine. Taken University.

one of the first to notice any relationship between beavey smoking and lung cancer, and this was not until 1936. Dr. Ochsner was able, in new patients, to forteid type and extent of cancerous thomage upon learning of the patient's smoking hable, which surgery later proved.

surgery later proved.

All factors which can cause or presente cancer are known as carcinogens. Nicotine seems to be the most predominant carcinogen of

those identified. It is a colorium liquid allicated which trans brown when exposed to the sir. In its pure state sicorium, even a small quantity, can couse venting, weakens, repid but weak pulse, and possibly death. Nicotine in smoke, depending on brand of cigarette, generates forom, 7 milligram to 3.8

absorbed, and when inhaled, 88 to 90 percent of the nicotine is ab-

scebed.

There are also chemicals known as co-carcinogens. These substances, when testeds, have not been found to cause cancer, but when cells are exposed to a carcinogen also, cancer frequently uppears. An experiment at this area was conducted by Dr. Peyron Roun of the Reckefeller In-

Poyou Reus of the Rockefeler Institute using rabbie. When the rabbits were infected with a virus type to carcinopea, Iarge wart-like growths developed. But when the rabbits were exposed also to a carcinegea, cancer seen appeared. Cigarette streeke coetains a proerful co-carcinogea known as phanol. In addition to this substance,

noi. In addition to this substance, there is another substance suspected of being a co-carcinogen. As already stated, a co-carcinogen when linked with a carcinogen will produce cancer. Therefore, it is a reasonable assumption that tobacco stroke, which carcinogen will produce the

and the co-carcinogen elements, is a strong candidate for causing candid cer.

In another experiment, using small birds, it was discovered that

small birds, it was discovered that the vapor from a glass rod meistened with micetine, when held close to the bird's beak, would kill the bird instantly. Nicetine also has definite physics.

Nesterile area has constitute projects of first on the condiseascular system of experienceal animals and man, as reported by the Bangoon Granera's 1964 report, Increase is been a first, systems carteliar conjust and spoule volume, and ill restifution in an increased reposar-distribution couper demands. This there is no second the contract of the co

een varely and also removes carbon

the tissue, it gives up oxygen and absorbs carbon dioxide. Studies have also shown that the carbon monoxide absorbed from

southern monoxide absorbed from carbon monoxide absorbed from smoking may cause a decrease in the supply of available oxygen from the blood which is required to meet the increasing demand of the myocardial tissue. This, in inself, it is closure that smoking can cornelwate to the increase in heart disease.

crease in heart disease.

Because of the vast assurat of publicity given to cigarette steeking and its effects, many how tensed to steeking open and eighers. There is a higher filtering onlift to righes and eighers which is apprecent in the town substance found in the stem of pipes. However, it is still quite represent the much of this adoltance reported than each of this adoltance reach, allowing for a good chance of it affection the inner eart of the

An experiment by three American scientists—E. L. Wysder, E. A. Grahams, and A. Croninger — working with mine at Washingane University in Saint Louis produced trainers interesting results with open and the substance. They constructed a machine with opening to hold olgentars and by a sucking achies, were able to siteralise actual stocking. This substance was collected and painted on the shared dark of states actual stocking. The site died absent immediately mistaked to the states of the states of the state of the states of the sta

and then applied, lesions appeared within two weeks on the mice. In 1939 the American Cancer Society made a study covering a much broader area than cancer. It covered more than a million men and women, collecting more information about each participant has had ever been done before. They were concerned not only with sensiting and concer, but either handly response. One of the significant findings in their study indicated that larg cuncer was closely associated with inhaling eigenette smoke, Early studies have shown that inhaled eigenette smoke paralyzes the short, halifike citia, whose function is to prevent interest, recognition in to prevent

cilia, whose function is to prevent irritants from settling in the beenchial tubes.

In an experiment conducted by Dectors E. Carder Hammond, Oscar

Austruck, and Purdy Stoot performing microscopic examinations of coning microscopic examinations of conlung times from LDOO patients, all of whose had died from different causes, they found that by comparing the cancerous tissue of all lung cancer victims against the noncancerous lung tissue of smokers and nonsmokers, they found that in all of the smokers the cilis had been of the smokers the cilis had been

destroyed — a condition that was not widned in any of the necession. To quote Dr. Ochner. "When the citia den't function properly, the installed irritants serie upon the walls of the breachial tree, accumulate and proceed with their destruction unhampered." Coughing eventually resists from these irritated issues and coe of the first symptoms of and one of the first symptoms of and coe of the first symptoms of the previously flexible.

cough.

The American Cancer Society's study indicated that smokers of pipes and/or cigars rate from all forms of cancer 32 percent above that of non-smokers; heavy cigareous susokers; 156 percent higher than nocumokers, and 200 percent feel lung cancer.

The different areas most suscep-

tible to cancer by types of smokers ner: Cancer of the lungs — eigerette smokers. Cancer of the lips — pipe smokers. Cancer of the tonguse eiger smokers. The following are some possible causes for cancer; (1) Atmospheric causes for cancer; (1) Atmospheric

The following are some possible causes for cancer: (1) Atmospheric pollution from domestic and factory chimneys. (2) Exhaust fumes of road vehicles. (3) Dust from turred roads and rubber tires. (4) Smoking

Out of those listed, only one comes nearest to the cause — SMOKING. Furnes, pollution, and

read dust are characteristics of an industrialized country. Yet in counries less industrialized than the United States we can find a high rate of lugg cancer; on the other hand, in some countries as equally industrialized, there is a significant log in the rate of lang cancer.

alized, there is a significant log in the rate of lung concer.

The discot engine road vehicle was not introduced to any extent into this country until 1930. This was well after the neticeable increase in lung cancer. All evidence con-

times to point to one definite cause of lung cancer — tobacco and tobacco smoke. A shocking experience was described by Dr. John E. Survey of New

croccu by Dr. John B. Summe to News. Verk who one meeting necited his left arm seemed to be askeep — he thought it was because he had repord on it during the night. "I could not have. I could not dress. I could not have. I could not dress. I could not have. I could not great the of my hand, I said to my wife that I was going to my an experiment and that it might prove what was wrong with me. I had been muchine cisus.

cores for thirty years. So I picked out one of my favorite eigerettes and began inhaling it, as I usually did. The tip of my thamb and all of my fingers began to tingle. They became dead and white, and that ringing and dead feeling went up to my elbow and I was right back where I started frem, with a ner-

feetly paralyzed hand and arm. I was admirted to the hospital and had a course of anticoagulants administered. Gradually, improvement occurred. "Dr. Satton quit smoking. Much of the experimental exidence against smoking has been through the use of animals. Therethrough the use of animals. There-

Much of the experimental evidence against smoking has been through the use of azimals. Therefore, many of the critics of the antismoking advocates, which include some doctors and scientists, refuse to accept anything but actual proofof any relationship between senokiiand cancer. Until there is a human volunteer to experiment on under laboratory conditions, conclusive proof will be hard to obtain. However, research has shown

that there is more than just a chance relation between smoking and your health. So much evidence has been gathered about smoking that, were tobacco may other substance such as a questionable drug, it would have been off the market long before now. In "A Cancer Source Book for Nov.

ses," (1963), published by the American Cancer Society, it is stated: "Lung cancer is the chief cause of death from cancer in men. It has increased eightfold in the past 20 years. An impressive mass of exidence has been accumulated to indicate that eigeretic smooting is the major consumer factor in lung cancer." Benerach and medicinemath.

dence has been accumulated to inside case that cigarette senoking is the major consentive factor in lung care." Research and studies strongly indicate that smoking may also contribute insurancely to other forest cancer. Snoking process an enormous risk to the individual's health. A risk the cannot afford and casses proceedings of the cannot afford and casses the contribute of the cannot afford and casses.

### and the Admox

Born in Freehold, New Jersey, Sgs Jackson enlisted in the Air Force immediately after graduating from high school. His overseas service includes Korea and SEA. During his military career he has attended offdaty courses at Paul Quinn College, Texas: Duaneme University, Penasylvenia: University of Alaska; and University of Colorado, Colorado Springs Center, While stationed in Vietnam he attended the University of Marsland on the Ton Son Nhut "compur." In addition to his educational courses here at ADC he also coaches Young America

### ANSWEDING OHESTIONS ABOUT LUNG CANCER

O. In there enothing enocitie in circurette smake that

A. A number of chemical agents have been found that

(known as co-curringgrees) which savier the action produced experimentally in onimals with chemicals found in cirarette smake and with cross cieurette

O. If you make clearence and don't inhale - are you note from huna conces? have cancer death rates increase with the resource of

cigarette unoke inhaled. Most smokers inhale to Is shere a "safe" number of citaretter one can

day show a higher death rate than ponsyrokers. The death rate increases with the number of cigarettes smoked.

O. Do pecole who do not smoke cigarettes per lung concer? A. Yes. The disease is found occasionally among non-

smokers. The type of lung cancer which is most common occurs almost exclusively in cigarette moken.

years, will you get home concer? A. Arrone who gives un cicarette smeking decreases the risk of contracting lung cancer. However, once they have started, most clearette amokera find it

difficult to stop - at any age.

O. What are the comptons of hose concert A The countyme are necessaries cough blood in the

has usually represent too for to be cured.

O. How is lawn cancer descend? A. Usually by x-ray experiention of the chest. But when

ined under a microscope.

O. How is lang concer diagnosed? A. By year exemination and by broughousenic examination or surgical exploration of the chest with the

O. What are the chances of being cured of lung cancer? A. About one in 20. Most cases are incumble at the moment of discovery.

company to make closester, can be still out lane

A. Yes, A checkup will not prevent lung cancer, but is early stages. However, as stated above lang cancer is difficult to detect early.

O. How many people die in the U.S. of lang conceoreast) A. About 43,000

From the American Concer Society Pemphlet "Answering the Office.

# specialty (expert proficiency to attain this rating well

In the May 1966 issue of INTERCEPTOR, an article entitled "How MAD" was published to explain and promote interest in the Man ter of Air Defense (MAD) akill rating. When the article was published, forty aircrew arrained the MAD skill ratine. Since that time thirty-

Some recent changes to brought to the attention of aircrew members and INDs. number of examinations and charles that an individual is subjected to. The program

is easier to manage and canto understand the program and the changes a quick review is in order First, the "Master of Air Defense" rating can be

the numbered AF and Headawarded to AEW&C sircrews (pilots and navigators) When these eight hurdles intercept directors (ground the MAD skill rating. interceptor aircress (fighter interceptor pilots, and ered to have a primary

Second, let's review the examinations/checks a candidate takes. The F-106 pilot in the above example takes a numbered Air Force evaluator. When the candidate passes these tests, he has to again take and pass his primary specialty tests from a Headquarters ADC evaluadate had to take both pri-

The command emphasis and recognition given to the MAD program make the expenditure of effort required worthwhile After a candiquirements, he is presented the ADC Form 235, "Master of Air Defense Certificate." by the Commander, ADC. at Headquarters, Agrogance Defense Command. The recipient receives a framed

"Master of Air Defense" patch, a land pin and an ADC amblem and a sense ate device with the words "Master of Air Defense" embroidered on it. In add

tion, a letter of favoral the Commander of ADC to the numbered Air Force in which the individual is stationed in recognition of the individual's accomplishment that the individual be considered for the award of the

This short resume gives the required examinations/ prise the MAD program. When the candidate has passed the examinations/ checks successfully, he has the public recognition and awards cited above, but also he has two intangible bene

knowledge: two - a working howledge and appreciation for the duties and problems encountered by the other half of the Aerospace Defense team. This is the real benefit from the MAD pro gram - personnel who are better trained and more canable of performing their

during in ADC That's the program in a nutshell. If you want to so MAD, for once, you not only have headquarters approval but a guarantee that you can not lose; for the end result is knowledge and so

The following list of names is published in recog-nition of those who have attained the "Master of Air Defense" rating:

Mai. D. H. Flesland It Col A. P. MacDenald 5-101 PH OTE Mai W M Scott Mai P. L. Harris Mai G. F. Roose

Mai I A Alfand

Moi E. F. Mullins

Mni B I Nobles

F-102 PILOTS

Cord F. T. Fohn

Copt D. D. Bright

Cost G. W. Cristonso

Mai O. V. Johnson

Copt P. M. Williams Capt L. L. Crawford

Cost K. J. Lamberton

Copt F. W. Doisley

Moi R E Majourt

Cost T. C. Smith.

Mni A S Worinse

Cont L. Lench (ANG) Copt J. Yoson (ANG) Moi D. T. Binosoptoli (4A4C) E-104 BUOTS

Mai C I Elten Mri F. M. Bunn Moi K. M. Read

E-104 MI OT Mei F. F. Dishesses

Mai I D Gornies Copt H. B. Pyles

Maj A. Lomox Maj H. A. Goodall Lt Col R. E. Edge Mai D. C. Schueler

Li Col J. M. Boyo C-121 PLOTS Case W. M. Adore

> C-121 NAVIGATORS Core M. D. Keens Mai J. P. Bistro WEADON SYSTEM OFFICERS

Cord A. R. Winklamon Mai G. E. Coats

Moi P. J. Frickleton Moi N. L. Trimmall Cost I I Blie

Maj M. P. Mahr Mai M. L. Johnson Mai Lenny Rinshy

Mai J. J. Pizza Maj C M Hastelles INTERCEPT DIRECTORS Cont W | Mietrob Cont N. Loverick

CWO E. S. Chronell Copt K. J. Dorsch Crest G. H. LaMontsone Coot D. T. Richards

Coot H. B. Stevens Cont W. F. Westfull Coot G. A. Fisher Copt J. T. McGrow

Copt T. A. Hebert Cord I I Kelly Core I. F. Coler Lt F. P. Herra Copf D. M. Beschto Cost P. I. Dress

Core T. M. McKennia Copt J. R. Biddle

Copt V. F. Lunas Maj R. E. Ross Cont W. J. Hobbs (ANG Mai R. D. Goodman (ANG) Mai C. A. Beasley (ANG) Cont W. Tomosi III (ANG)



# little **EXTRA**

Not too long ago a vest was authorized for wear with our flight clothing. Stylish? ... Not Penerica? ... yet! The SRU 21/P survival vest may be just that "little ents!" that will sove your life one day should you be forced into making a toylon letdown.
When an infight emergency oc-

day should you be forced into making a projon belower.

When an inflight contents of the content correct, the sixteers has two choices; core—make a forced landing if a satisfact field in switchely two—eject. The preferent associated with forced landings are well known and will not be reviewed in this article. If we ossesse that an ejection is our early alternative, which experience is not experienced in the content of the

A typical fighter plat (see Bistursien) has his pockers filled with all sorts of goodies such as kelfe, filmer, sanches, a comparte (small) CPUZAC, PD, etc., that causes the serviced lesses in certain pockers of the flight sletching is not recomsourced. As Mr. BONNET H. Shanzonpoints out in the article, "USAP 1009), there is not hasted involved if alrerow carry survival lesses in G-saist and the lower pockers of flying with. As standed serviced with the control of the con-

is being pinpointed. The problem is

crease. With these facts staring us

is the face, what recovers do we

hase? One netwer is the SRU-21/P survival west. The vest is now required on all 7-32 hights. It is Asploy recon all 7-32 hights. It is Asploy reccially in ejection sean epitypost and craft. This lighteneight overgraph and craft. This lighteneight overgraph and survival items. The vest is ween over the jacker and under the LPU seally assures reterrisen during an ejection; and since the liters are distributed.

the picture and tender the LPU and paneshate harvess. This practically awares retention during an ejection; and since the items are distributed around the upper torso, cockpit interference is negligible. Individual issue of the SRU-21/P is authorized and highly recomneeded. An individual vest can be properly fitted and the items in the where, it individual issue canno accomplished, be sure and have the "Personal Equipment" personnel adjust the vest to fix you properly. If you went the wrong sike vest, it can interfere with greenst eggess procedures, opencially lap belt release. Now, we have a vest, what can we put in it?

SRU-21/P: 1. RT-10 radio or equivalent (mondatory in vest) 2. MK-13 flares (res)

MK-13 flares (reo)
 Pengan flare kit (one)
 Police whintle (one)
 Signal mirror (one)

Waterpreef match container
(with waterproof matches)
 Fire starter (one)
 Survival kitu-introduct (one)

Survival kit—individual (one)
 Innect repellant (one)
 NOTE: Asterisked items plus MC-1 kelfo are ADC mandatory items.
 bese are proven survival aids, one has its purpose. For ex-

each has in perpose. Fee: easily in perpose Fee: easily has in perpose. Fee: easily, the radio is excellent for contaminating year location and condition to recover already. However, the radio is excellent for contaminating energy and the feet of the feet of

enough, be able to use it to you but advantage.

ADC Repulsion 501-7 is emphatic in its requirements. However, a regulation by itself is indequate; susfersheading the "why" is an estable chement of completisments were the verification of the comment of the comm







nee 21.14 and long androwers of

# ZOOM BAG

by MR. JOHN GARRETT AND MR. MILTON ALEXAND.
Anthropology Branch, Hawan Engineering Division
Aerospoce Medicine Research Laboratory
Wright-Patterson AFB, Ohio

graved the consider and safety halfinto the exploreer we tare in our flying octivities. Many long house of research and testing go from the cosign of on born before it reaches the field. Full present ratio are so exception. The Editors extend obsertionists to Mr. John Gurens and Mr. Milton Alexander for their background information on the developrates of two mats for the high altisors of two mats for the high alti-

per fine. ADC gibte about pine in the six includes verifig at Ad-Fore field pressure sate, rest asseed that mother the ceage A/P 225-8 or for new green A/P 225-8. The same green A/P 225-8 or for new green A

Billy E. Rerus, then chief of the

which is a stephene call freem Mr. Miles A Mephane call freem Mr. Miles A Mephane call freem Mr. Miles A Meridian and the people of the Mr. Alexander Wight - Paterson Mr. Alexander Wight - Paterson Mr. Alexander Mr. Alexander

surent's were being propared to perform a high altitude mission.

Both Mr. Alexander and Mr. Sgr.

Revers were well sware that a cockph had to be large enough to accommodate all pressures used pitch or someties a magic exclusive would nesess. It was the agreed that the Arthropology Branch could conduct the reventry project at Tyndas, may be reventry project at Tyndas, may the reventry project at Tyndas, may the reventry project at Tyndas, may completely a transfer and the contraction of the reventry project at Tyndas, may was seen to interfere with the second was seen to interfere with the second mission of the PTF. AIX. Personal

in the study.

While this instant cooperation, without red tape, amazed the physical arrhropologists, it was another typical example of the 4756th's rosatte. Bedden their resulter, ADC, do.

typical example of the 4756th's routine. Besides their regular ADC duties this unit serves as pessuare sail depot for the operational high altitade mission which involves Arrospace Defense Consumand, Military Airliff Consumand, Air Force Systems Consumand, and Tactical Air Conmand. In addition, the unit custed a Meritorious Unit Climica for their cooperation with the RCAF assuant on the high altitude record. Since 1907. sucreous shareful

Sales 1907, autoreous shorld with the control of th

The Ireneedous cooperation of the 473-6th PTF at Tyndull has enthe 473-6th PTF at Tyndull has enshed the Anthropology Beach of the 6570th Aecospace Medical Research Laboratety to expedite data collection and testing in coder to help provide the high flying pilow with the safest, most comfortable, yet funtional, full pressure sait.









ERATIONAL ADINESS IPECTION TEAM L. ADC

### "ONLY SATISFACTORY?"

You may be wondering if the CI team has a quota on outstanding ratings for musitions services sections, since only one "outstanding" has been given in this area in the past 12 meeths. Of course, there is no such thing as a quota. However, we can review situations that have led to issuer ratins. Be alleviations those notebrass, sour

ed to lesser ratings. By alleviating those peoblems, y mit will have progressed well toward an "outstandie We are interested in two major areas: certificat coords and proficiency loadings.

We stated to encounter few problems with our

soliton records, since ADCR 37-3, ADC Musifician Certification Programs, has been in effects for a long finan-Uniformatidy, we constantly find manuscross errors in ADCP Perm 26-2, finally-sall Technical Evolution and in the reporting of limiting factors or major deficiencies, Three fations caused most of the errors; carefusiness in the proparation of the forms, lock of funditionity with the requirement of ADCR 32-3, and fathers to clarity quarticiently areas with higher headquarters. A thorough sunfermaning and application of ADCR 32-3 and fathers to clarity quarticiently areas with higher headquarters. A thorough sunfermaning and application of ADCR 32-3 regular

A unit cannot expect to attain an outstanding rating, if its load crows are unable to load in a safe and reliable manner in accordance with the applicable technical coders and supporting directives.

We choose carefully the crows to be observed. For

example, we usually look at crews with augmentees. Our observation of the crew during the proficiency evaluation may contrast sharply with that of your standardization name, because more than the mechanical motions of loading are observed. We also inspect the aircraft, equipment and weapons. Thus we evaluate the crews in all areas, including their knowledge and application of

The most critical items in the application of rejection criteria are the aircraft forward and aft surebilicals. Many error chiefs appear to be unaware that a "CTION" and a "NOTE" exist which give explicit institutions on what action to take when constraination is found in the unbilicals or when the pirst are damaged

out its percent of those unbelicule, we consider that contamination in any unbrance — oil, genera, mointare, dirt, paint, or whateve — that may in any way affect the proper resulting of voltage through the price; account the proper resulting of voltage through the price; account the proper resulting of voltage through the price; account to the proper proper price of the price of the price of the have any other defect that could dismage the unbillied of the weapon. The inspection of weapon cambilities has also caused.

much conformation on our inspections. We expect to see he load crows apply acadily the same stringent criteria to this inspection as in required of the essentians maintenance personnel. Contamination in this instance in the same as previously stated, and also any loose paint or dirt particles large enough to be detected.

Many saits apparently believe that the aforementations.

However, Annex G of ADC Operations Plan 6-87 lists other interesting endeavors to be evaluated, such as: the training program, facilities and equipment, copliance with directives, and management Security



"# 22. EXTRACT LAST YEAR'S OR INSPECTOR...."

sizes services sections neight how received contantings in they also related sown in these areas. Management has often derivated from an otherwise contracting preference. By management, we mean everyone from the aparties contanting to the most included preference, and are also also also also allowed included the aparties contanting to the aparties of their deleter of the contact, and are also also allowed meets are made by the troops; impact for the upper collection in it the coro must; and unity is laising with the stell in your section, and gain their ail in previate, and the stell in your section, and gain their ail in previate.

Wilson. 8 will-subshield and well-obcessment training proupers, a section may feel intelligent when forced with testing. Our tow will challenge the reliably and validity of your training pages. The sost continued for two points one section stantines the telebrial that the property of the reliable containing the section for the basic supervisory information centered in AFM 66-1, ADCR 32-3, and ADCR 136-1. Most people and via the former, and poorly on the latter. For exactful, 89 percent of those tends to date did not know that it is cold. ADCR 186-1. When the property and its COLL DECR 186-00-00 [110]. supervisors aren's acquaissed with basic ADC directions. Finally, there are the cases where the sections were not only the minimum requirements. They have acceptabled their menut days-to-day hazerions in an adequate manner, as expected. Often, this section is rated only sanisfactory, because they did not stillar procedures, policities, or equipment that were superior, ingrainous, or wide minist be thought to other parts.

No one impector alone can rate a section outstanding. Data are farmished to the impector by fellow team members, and all factors are evaluated by the impector and his team chief. The final decision rests with the team chief.

In this "discussion." I have reviewed several items. In this "discussion," I have reviewed several items to the state of the control several several several conference of the several several

THE BEST OF LUCK ON YOUR COMING CIT BILL NORRIS, Colonel, USAF Team Captain, ADC ORI Team

E-101 INDIONY DRE The aircrew was briefed for a

short (17 minutes) flight to a more by base for a graick turnaround exercise. Exterior and interior cockrist prefights were accomplished nonmally except for a momentary inability to secure a green "trimmed matter trim switch corrected the

attempt on the right engine. Because of the short flight involved, the pilot climbed to and speed was 480 knots IAS with the left engine at 100% military power and the right engine at 100% after tempoing to burn fuel as rapidly as possible in order to get the aircraft

on the ground for the quick turn-At approximately 9 mirrates after takeoff, the pilot heard a load thump or small explosion in the aft

ously, the right engine steady fire light illuminated and the aircraft went through a series of moderately severe gyrations about all axes. The pilot shut the engine down, declared an emergency, and was given vectors

to the nearest suitable airport. Anproximately 255 mirrotes later, the fire warning light went out. He present to test both bulbs and determined that they were working

fuel filter housing failed in flight There was evidence of exidation of

He not a green safe light on the nese mar only. A believener flying in the local args was asked to visually check his landing your configuration. year and left main year down but the riete main year up and looked. He also reported no indications of fire. The pilot of the emergency aircreft then tried to retract his left reais ever while trapping the nose list procedures. He was unsuccessful The settly hydrastic pressure now

The aircrew made their decision to eight eather than land with only two gear extended. They recognized and received from approach corneal vectors to the ocean shoulding. When

2-3 seconds later. Altitude was 5,000. feet. The aircraft was observed pitch up and enter a flat spin. It impacted some 500 yards inland from the shoreline. During an extensive investigation and analysis, it was discovered that the right engine afterburner igniter



as five, both outside and inside the region of 900°F. The high presbeing heated to a temperature in had melted and the housing was bling the petals of a flower. The paper filter element and its fine mosh screen covering were missing.

exercly ignited. This caused on enfailed at the hinges with major pordown lines in the right engine how. section of the right flan and derande it impossible to lower the right

main landing year and necessitated ledgeable, and their actions were



# POINTS

### We would sincerely appreciate your inputs mailed directly to: The Edisor, INTERCEPTOR, No. ADC (ADCSA-E), Ent. AFR. CO. 80912

T-33A EO-HAUST GAS TEMPERATURE UMITATIONS, Meximum string hemperature; 900 degrees C. Meainman during peparations: 715 degrees C. Meainman GET during allihude acceleration check the EGT nay exceleration check the EGT nay exceed 175 degrees C. without causing demage; however, as the control of the Company of the Company

| Ambient Air |  | for  |
|-------------|--|--|
| Temperature |  | Taksoff  |
|             | -10 degrees C<br>0 degrees C<br>30 degrees C<br>40 degrees C | 610 degrees C<br>610 degrees C<br>640 degrees C<br>650 degrees C |

The EGT varies considerably in various engine and airframe combinations. Consequently, it is imperative that the accelaration check be utilized to determine that adequate thrust is evaluable for their off, During climb there are no established charts for minimum indications. References T.O. IT-33A-6CP-1. After proficiency flight checks, flight exerrisers will complete a separate line entry for the exemines in blocks A through B is AFTO Form 781, placing appropriate AFTO 781F code in Block E. Reference: AFM ANJ, new ASA, ADCSA)

The Police Accord Displace of Police Heardin has developed a total field the Interior has developed a total field the Interior has developed a total field the Interior has been been been been been been person to be completely effective. Being statute, fiscal displace in the total total throughout the size with field test the administrat place possibility of combutton of any sort occurring within the statute, and may be possibly of combutton of any sort occurring within the statute, and may be possibly of Act has displaced to object to south the statute of the possibility of the statute of the possibility of Act and the statute of the possibility of presently being occupied to the possibility and the possibility of the statute of the thing the statute of the Mind of the statute of Mind of

AFM 60-1, dated 14 July 1969, changes requirements for refresher courses and flight checks. The BIRTH MONTH is now the key word rather than birth date. At Moch 2, you will travel nearly a mile – 5191 feet — in the time it takes to tru your eyer from distant vision outside the cockpit, look at an instrument, recognie the reading, and look outside again. Yo will travel 2006 feet in the time it takes to datect and recognise an object outside

Red X and Red Diagonal symbols entered on the sizealf form expenses an opinion of the sizealf form expenses an opinion of the sizeal form or bridshall will be directed to change the symbol. If convence of higher expensibility, within the maintenance or sizeal s

It might be well to be reminded that 10% of the nature lighting styles recorded occurred in the -10° to +10°C temperature range. Of equal importance is the fact that in this same temperature range let fault are formerable whereave average is over-rich at these temperatures are upon the recorded lighting strikes occurred on the wings of the aircraft, the exceeded lighting strikes occurred on the wings of the aircraft, the

Pilots who maintain currency in jet or turbo-prop aircraft may substitute one weather posetration for 40 minutes of (annual or semi-annual) instrument requirements. Reference: AFM 60-1, para 4-12b. A drip pan or other suitable apparatus shall be placed under curitet overline until of the placed by the place of the liquid origins to prevent contact of the liquid with any oil or grease which may be on the range. Drip pan shall be kept clean and not be utilized for eny purpose other than liquid oxygen servicing. Reference:

Place the T-3) tip task jettion switch is auto drop in a sele area and prior to take off. Also make sure it is "eff" before an eneing the parking seas. In a recent techdent, the tip tasks jettiacoad when the carcipy was raised effer turning off the runway. The tip task jettion switch was still in asto drop, and some sensual wiring caused the tip tasks to jettion when the account for the tip task to jettion when the

### BLUE ZOO



"Marany knows you don't want to go to the Academy, but Doddy knows best!"

### safety officers'

## FIELD REPORTS

T-33A REVIESE TRIM. The pilet get little or no effect from the nose up tim applied during this restriction. When he tried again, the nose word drown. He checked further with emergency tim. He suspected the desease tim was wired beak words, but helicitated to try opposite tim. He landed the aircraft without problems. The root-up and non-down wires had been revened in the elevator trim the accusave carroom frag during its repair. The trim system worked exercicly after the wires were

The DA CONTROL WARRING COURT. In Figure to prison of that the tip last are so with the totalise readman of that the tip last are so with the totalise readtion of the tip last are on, even though the total country inductive seed influencing first tip alter an extension of the country of the country

THODA AC/OR FORME FAMURE. The alternth half account head account account decision growther when were about a Branch plage on the occlopit flower. The AC and DC power findle middly, these appearance to cent-me that the warning lights were out. The UHF and toon wheel storing were countries and the countries are constructed by the countries are constructed by the countries are countries as expension of the AC side. The entergracy AC generates was supplying power. What happened was the electrical short these several circuit breakers in the now whenly well which decided power 30 centrals occurrent. With the shorted figure and without free power, and the power and contains the construction of the AC shorted figure and within a construction.

F-102A FUEL LOW LEVER LIGHTS. The aircraft was so ing ms a target at FL 489. After the deeps had fed out, the plots used airboraser during a turn. Both feel leve level lights came on and the #0 turks reed 400 pounds. When he came out of the airboraser the tasks filled. Subsequent use of airboraser counced the same results. The trafts filled again and the lights were our during the returns to base. Maistenance personnel changed the #3 tasks very values.

B-57A ENGINE FARURE. After approximately one hour of flight, #2 engine began a riid vibration. An energisty was declared and processionary landing was unevented. After engine shouthorn, it was discovered that #2 engine bud seized. Engine removed for shipment to deput. Support #2 bearing influee.

never agits insurance view interact was on intel approach with approximately 2000 pounds test fluid renaising. The boost purps were trende off on tax-inand the engine insmediately flurand cost. Investigation revealed trapped foul in the transfer tasks caused by a restricted aff tool task presswritation filter. The filter was cleaned, re-installed, and checked satisfactority of the foul system tester.

F-1018 PVIL SPIRITS, During cruise at 24,000, 30 mis-

sites after takeoff, the pilot noted that he could not get any engine response on the right engine between 2500 pph and 3500 pph had flow. Fail flow could not be stabilized as any point between these figures. Engine response was normal on either side of this range. Engirophic was normal on either side of this range. Engirophic was not to be a superior of the side of the response was normal on either side of the side of the was accomplished. The engine was ground checked through all power stages and the mallarication could not be displicated. The first control was changed as a precurationary measure.

TR-102A MURTID PROPRINT THESAT. The alterarth was no GCA float price on glide slopes when the plast realized is was taking full rail to bold simpout. To increase alteration to the property to the anti-termine briefly. The intunctive piles need the EPR remained about 1.6 or 1.7 when the plast cases of the distribution, this class that the plant cases of the distribution of the control of the plant cases of the

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Thru August 1969

ACCIDENT FREE

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MINOR ACCIDENTS THEIR PERSON - 6-

