

~~Diet~~ Dietz * 2600

AC

Summary of Trends
check o/s

15 B

13 B

6 B

34 B

Foly MRF
23098

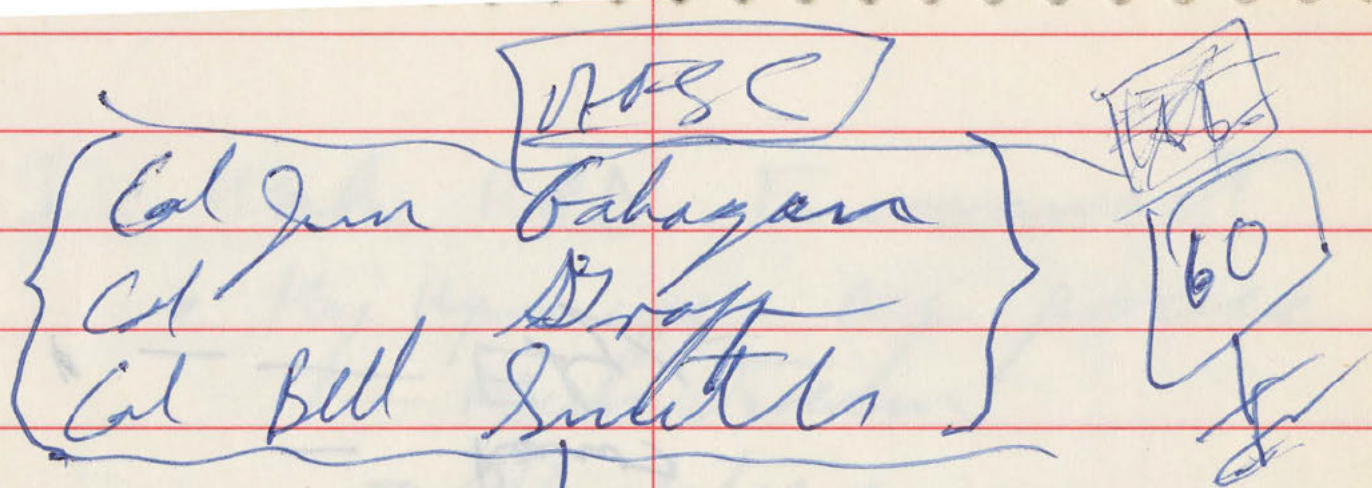
Function determination, analysis,
recommendations

- Reduce DCS/RD Staff or
- Streamline management
(assume existing planning,
req process, acquisition
etc remain as is or
- Planning, Req Process,
Acquisition, subject to
streamlining.

- ~~Medals early for people~~
~~leaving.~~
- RD management

June 8 Cr 346

12:30



Cochairman [Col Don Brewster]

ATSC options

- ① - Minor Manpower savings
+ No significant changes
in responsibilities
- ② - Change responsibilities
but not not organization
- ③ - Thorough review of
functional responsibilities
new organization
- big effort no
holdovers
- possible alternatives

To improve operations

④ LB - Procurement Policy

⑤ XOX, XOO

Sepl — b

• Steery Committee
~~to the~~

= Hudson (Chairman)

— Slay

— Stewart

— Russel

— Raws

• — — Ely

I What R&D Environment

- Key Upstream Key process
 - Mainstream
 - all sites
 - DSI's
- Who is involved
- What do they do?

II Observations on resulting influence on R D & A Main practices

III NOW R&D Main Practices

IV Comparison II & III

V Summary

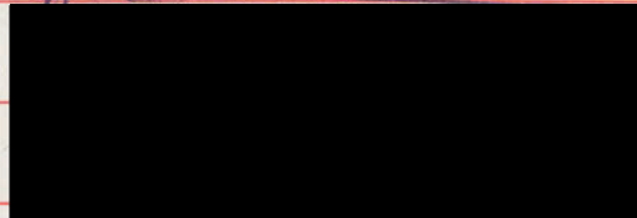
VI Management / organisational alternatives

VII Pros and Cons of VI as related to Above.

- Get Historical warning data USN// AFSC
- Identify Trend
~~• ~~

- manpower
- Responsibilities

• Bill Smith



- Al Ketyur
- Don Greene



• Advocacy

• No Cradle to Grave

• Operations will drive

• RDG, RDP conceptually do not change even tho some functions may change

• Try to get Tose involved in everyday management
- RDIE E program; authority

• Acquisition Mgmt. best in DOD - Can we spread it across the board

• 1 goal point for
provisions

• tend to protractate

— the study

• mission Area
Technical Area

• XR $\rightarrow$ SD

How do they play

• 6-3a, b are related
to procurement
Dev Plan

• More info (Life Cycle Costs)

• No dual hats

• Technology at AFSC

Output

- Separates how
- Recommended alternative
- rationale
- Expected Results
- time phasing

CSAT/VCSAT

- save manpower
cut out or combined
functions (XXXX)

- Is a model necessarily
bad

↓
• Why do they happen?
• Are or have they been
useful

- Get Don Connors pitch on Reg Process

- AF

- HP 21-1

- OSD - manpower
- organization
- historical trend

- H End S A S C
It are S A C
H and S B C

Done

~~that~~ get a list of current studies conducted (up in band)

Done

^M
• PR brief to Council Dr Stoff
Hq's Assessment get it
[in band]

Done

~~Get copy of Hodnett
- Hunt reorganization
study (located but not read)~~

Done

Workload study sponsored
by Vice Chief for R.D.
(located but available)

RDM study on reducing
PARS and SPRS
(copy in hand)

get my minute or
attend in council meeting
on this subject (briefed
23 May 75)

all DCS have concurred
except Cristaller so need
final blessing

Notes

- R&D management features
(- Hangup = admitted)
How to use this chart?

- (ASD), etc. chief of small programs. DSDO at USRT to get to ASD on major programs

- Discipline in RDT&E Programs

- Remote Management Features, briefing chart

- Management Process Out

• Must still ask
? why buying/
overlap/duplication

• PPTS to AF
Manage to AFSC



Result: Change nature
of questions from
OSD or upper levels

• Duplication — USDP
→ AFSC

• Criteria (change
to get to)

- DFSC

Budget formulation
Funds Control

- Hy USPTF

RDQ Mixture (Boyd/Smith)
RD Interfaces (Young/Bremer)
Macro Management (Young/Murray)
Budget Defense (Boyd/Helyar)

- Weakness: (RDQ Mixture)

Mixture of Hardware Program
Frontier & Planning in Single
office

Are! Separate Doors
from Planners

Big Program
+
Little Program

- How: Transfer funded
Hardware Programs out of RDQ

- Transfer funded
hardware programs out
of KR (DFSC)

- Emphasize Planning Function

- Manager System
- Integrated

~~Weakness: (Budget Deferral)~~

~~Decentralized ~~Control~~
Program Budget
Formulation~~

~~Cure: How!~~

~~- Assign~~

Weakness: Centralization of
Budget Deferral (3600, 3010,
3020, 3080)

Cure: Delegate Function
To Hq. AFSC

Howe - AFSC/CC testify
in lieu of DCS/RD

- AFSC Support Congressional
Event Response
preparation
 - AFSC Participation
in P, F Level
Congressional Testimony
 - AFSC Participation in
Posture Statement
Reviews
-

• DSARC Process - My Lee

RDA Meeting 13 June 70

Council perceives
this request as a
basis for reducing
manpower

In other ^{words} RD saves
the rest of the Air
Staff - at their own
expense

(Capt Dick Khum)

- Maj. Lohman 70172
 - Functions
 - Manpower
 - (Capt Bartlett)

(981-3001)

B/G
Lambert

- Compare R&D functions
 - Desired (with)
 - Actual

- Outcome
 - Should ~~be the~~ go toward the appropriate solution

• Air Staff USAF } (only
AFSC }

• Desires { USAF
AFSC }

•

• Action

Management Philosophy

~~• 1957 - AEM~~

- AEM - June 1957 FV Nadel
- Aerial Ditch Study - ^{April} 1968
- E-M Theory - May 1969
- E-M March 1966
- Half Man Concept Jan 72

Book:

- Inside Bureaucracy
Anthony Downs
(Little Brown)
Road Research Study
- Relativity for the Million
Martin Gardner
Pocket Books

• What is Relativity.

L.D. Landau

& G.B. Pomeranchuk

Fawcett Premier

XPL - GP

XRP - ~~Ally~~ E

- Mission & Functional
Area Overview

XPT - Sent Tapes

- off

- $R^2 + C$

XRA - Policy & Programs

• Objective & Goal, Aim,
End, Purpose

• Refers to ^{desired End} ~~End~~ Result of
some action or activity.

• Problem: { Condition, or matter
of difficulty, doubt
unsettledly

• Refers to an existing condition
or matter that precedes
action or activity

Planning

• Deficiencies

- No Framework in existence for planning
- Result - planning done on AD Hoc basis

• Why the deficiency

- Apparent lack of interest at higher level

- Lots of talk no action.

• Effectiveness of Planning

- Few people assigned or allowed to participate in such an activity.

- Solution → Provides a scheme that recognizes the mismatch (between resources and learners)

~~Solution alternatives~~

② points the decision maker to deal with the mismatch in a systematic fashion

Planning — Analysis being used as a substitute for planning.

Planning :— What and Why addressed

How ~~where~~ when and when not addressed

● Observation

- Can meetings in the Pentagon produce something better than mediocrity? If so how?
- Do meetings produce substance or brilliant solutions? If not, why not?

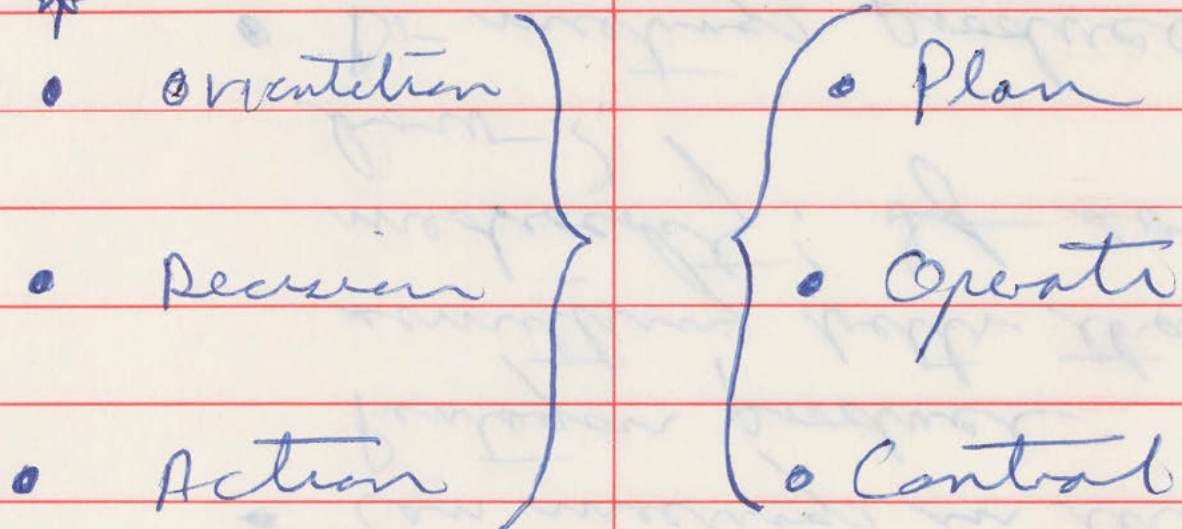
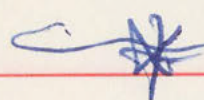
— Vernon Spadling —



* Human Goals ~~strong~~ (individual or an organized level) within a System increase Entropy (Disorder)

* Raises questions:

- Why have System Goal? (expect for independent Action)
- How do we impose System goal over Subsystem Goals?
What is mechanism?
- If acceptable mechanism available, What is mechanism based upon.



I 30K/RX $\rightarrow$ 2383[#]/min.

33K/RX $\rightarrow$ 2702[#]/min.

30K/J $\rightarrow$ 837[#]/min

II 32.5/RX $\rightarrow$ 3321[#]/min

~~32.5~~/RX $\rightarrow$ 3835[#]/min

32.5/J $\rightarrow$ 1017[#]/min

- AG maxson set aside
~~JPA~~ fuel for some time that
 RX can operate

- Also put in 37.5 bird
 with .8 T/w in addition
 to 8 T/w 30K bird

• 22.8	→	653	3.7 RX 30K	2630 2633
• 30.6	→	837		RX = 2383
• 37.8	→	1016		RX = 3271

$1674 + 837 = 1941$

$3554 + 1016 = 3771$

• 30K → 2383/3.2 ~ 2520/3.0

• 37.8/L → 3271/3.0 ~ 3271/4.2

- W/S spec fuel volume (generated by using Rx fuel) filled with Rx fuel and additional JP-8 to extend persistence (or loiter/radius in A-G missions). If accomplished Rx T/W would need to be increased to maintain ave combat T/W.

- W/S of heavier designs at ave. combat are less than lighter designs.

• ~~Drag~~ ~~different~~ difference due to jet engine vs Rx motor + jet engine,

- Ab missions all internal volume used

T-T-D

I

- Purpose of question
- Importance of definition
- Definition Argument
- Creativity Argument
 - Unstructured thought
 - Education contradiction
- Analysis / Synthesis
 - first crucial step - Unstructured
 - second crucial step - verify
- goal / obstacle argument

Induction
Unstructured (S)
 a posteriori
 open ended.



goal is unknown (I)
 Objective = uncover
 (creativity)

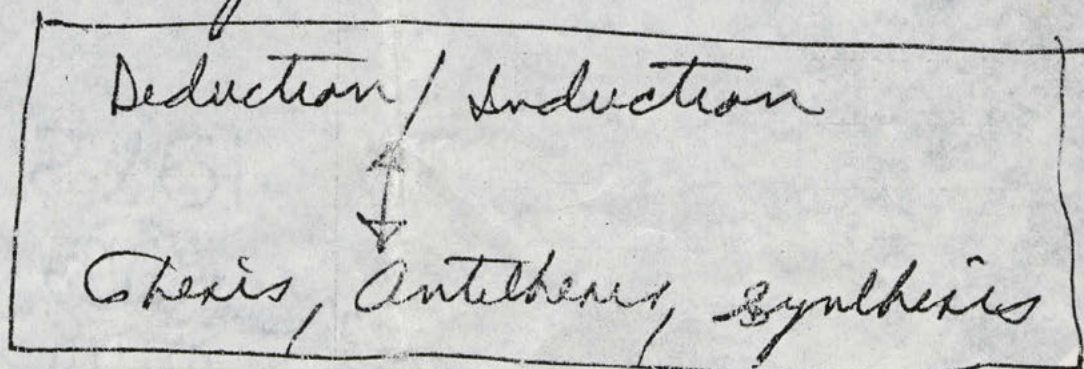
|

Deduction
Structured (U)
 a priori
 closed system



goal is known
 Objective = reach
 (reason)

- Inductive synapses
 - relation of synapses to neurons
 - why you shouldn't drink
- Implication of should
- Evolution / revolution
- Organizational argument
 - confront external threat
 - ideas, rules - framework to permit organization to function
 - Why ROE?
- Dialectic argument
 - Opposites
 - Thesis, Antithesis, Synthesis
- Relation of:



- Deduction/Induction — related to rate of change
- Thesis Antithesis, Synthesis — ~~relations~~ related to a position

Conclusion: ?

- Deduction/Induction provides the basis for dynamic learning
- Dialectic (thesis, antithesis, synthesis) are positions within the learning process

- Why IQ Test, do not measure creativity
- Survival — directly related to ability to restructure / structure
- Diversity and entropy

Prospective Club Officer

Major Harold Marshall
from Tan Son Nhut

8th Ave Subway up town
A Train to 190th Street

- 1 Go out Swinging gate to Broadway
- 2) Walk to left down hill on Broadway
- 3) Turn Left on Broadway - walk up
2.5 blocks - Jewish Memorial

Am 400

LO 9 - 4700

going to Columbia Presbyterian
Hosp + Hospital Old Field Section

M

Down to 14th St

14th St (Cavendish) or BMT →
1st Avenue - (4th Stop)

Arrive (A) = turn ~~right~~ ^{left} onto 1st Avenue

- 1) 523 E 14th St
- 2) 10D

T-T-D

Eclectic Dialectics (Application)

- Education

- process - present contradiction
- creativity -

- Science

- Assessment of state of knowledge within discipline
- Advancement of science

- Universal

- Creation of matter
 - stars, planets.

- Biology

- creation of life and its perpetuation

• Sociology

- Creation of behavior
- Creation and perpetuation of organizations.

• Psychology

- Building up of intelligence
- relation of this build-up and the ~~brain~~ synaptic network.

• The ultimate dialectic

T-T-D

I

- Purpose of question
- Importance of definition
- Definition Argument
- Creativity Argument
 - Unstructured thought
 - Education contradiction
- Analysis / Synthesis
 - first crucial step - Unstructured
 - second crucial step - purify
- goal / obstacle argument

Induction
Unstructured
a posteriori
open ended.



goal is unknown
Objective = uncover
(creativity)

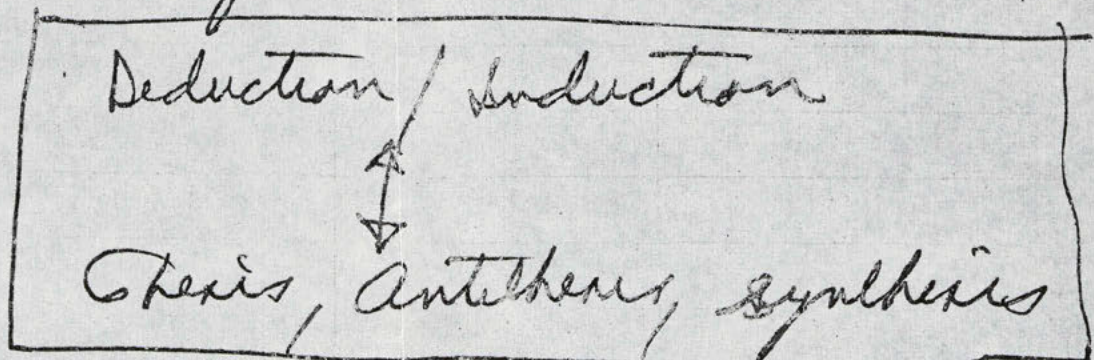
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Deduction
Structured
a priori
closed system



goal is known
Objective = reach
(reason)

- Inductive synapses
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 - Thesis, Antithesis, synthesis
- Relation of!



- Deduction/Induction — related to rate of change
- Thesis Antithesis, Synthesis — ~~relations~~ related to a position

Conclusion: ?

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Prospective Club Officer

Major Harold Marshall
from Tan Son Nhut

6 Aug 73

QUESTIONS

MODEL

- Are multiple (2V2, 2V1, 4V4, 4V2, etc.) engagements considered? If so how? If not why not? If not how can the transition probabilities contain all the characteristics of the aircraft and their interaction including any GCI that might be available?
- Why uniform distribution?
- Is uniform distribution assumption retained throughout SAM, SO and CI engagements? Why? If not, when is it not applied? Why?
- How is desire $(1 - P_k)$ to remain engaged applied in model for B attack R or R attack B cases? Have the engagement simulations been investigated to see if desire results in fewer engagements or reduced engagement time?
- How are other assumptions - confusion, interference, etc. - applied?
- How were mixed force fighters distributed in raid? Is distribution realistic? Basis?
- When using mixed force, is the acquisition radar threat information by F-15 or F-4 shared with (and applied by) the LWF and F-5Es?
- What is basis for SAM, SO, and CI P_k 's?
- Would ECM (friendly and/or enemy) reshape
 - detection by radar?
 - P_k 's of missiles?(Is this accounted for in model? How?)
- Is the impact of additional info (ECM) on pilot ability to sort and respond (increased time and confusion) accounted for in the model? If so how? If not why not? - Impact on results!

* SO = Standoff

* CI = Close-in

Attach 1

- . Would employment of enemy air-to-air arm reshape results in relation to
 - detection (radar).
 - SO missile shooting opportunities.
 (Is this accounted for? Should it be accounted for in confusion or interference factor?)
- . Would interlocking weaving maneuvers by threat or friendly reshape
 - Radar lock-on
 - SO shooting opportunities
 - SO missile P_k 's
- . Would end-runs by threat around F-15 reshape results? (B attack R)
- . Would additional fuel on F-4E and F-5E reshape results - B attacks R? How much fuel in LWF?
- . Would different terminal attack trajectories reshape results - missile kills vs gun kills in CI engagements as well as friendly/threat P_k ratios?

RESULTS

- . Why does LWF experience the lowest improvement when it goes from NON-GCI to a GCI environment? Does desire, $(1 - P_k)$ to remain engaged drive these results?
- . How many: F-15s shot down?
 LWFs shot down?
 F-5Es shot down?
 F-4Es shot down?
- . How many F-15, LWF, F-5E and F-4E shot down by enemy SAM, SO and CI respectively?
- . What were the results when employing 7 wings of LWF?

- How many of enemy does F-15, LWF, F-5E and F-4E shootdown by SO and CI respectively?
- Explain the significance of the SEA exchange ratio of small #'s of Migs vs large #'s of U.S. fighters to the results from TAC engager. How does this compare with WWII?
- How do we explain the superiority of F-8 over F-4 in SEA air-to-air?

SUMMARY

- Does model of SAM, SO and CI consider preferred actions or what actions should be generated as opposed to what actions can be generated?
- If model cannot address future realistic preferred actions by friend and foe, how can results be used to predict outcomes?
- If future outcomes cannot be predicted of what use are the results?

or put another way

- What was (or is) the real purpose of the analysis and related results?

Questions

- What maneuvers used: Basis for maneuver selection?
- What control logic is placed upon maneuvers to assure "appropriate" maneuver execution. Basis for control selection?
- What terminal attack trajectories used? Basis for trajectory selection?
- What maneuvers used to counter-missile trajectories? Basis for these countermaneuvers?
- What regions (H, M, E_S) used for maneuver employment. Basis for correlation of maneuvers with region of maneuver employment?
- What decision logic is used for maneuver selection and region for employment. Basis for selection? When accomplished?
- How has program been changed over past three years or more? Basis for change.
- How has decision logic been changed to account for different maneuver emphasis and/or change of maneuver control logic or reorientation of region for maneuver employment.
- If decision logic has not been changed -- Why not? If decision logic has been changed what is basis for change.
- What impact do the following have on results or on selecting new designs (parametric investigation).
 - maneuver selection
 - maneuver control logic
 - terminal attack trajectories
 - countermaneuver to terminal attack or missile trajectories
 - maneuver region orientation
 - decision logic to identify relative maneuvers and region for employment

Strategy for R.D

- Integrate "bits and pieces" together to see what it all means — with reference to "Patterns of Conflict"
- Conceptual Approach

- First-mover and Second-to-Last Scheme considered from both a short and long range viewpoint and how they play together

ACM/B-1

- Pro's / Cons

Gen Flynn
4E 1076

Contract

T-T-D

- Get ~~RK Sections on~~
Radar X sections on

F-15

F-16

F-4

F-17

F-5

- Look-up - Have you
investigated Mike

- Radar
→ Look/Up and Look/Down

- Msl

- Govt Expectations - (Get
contractors to respond)

• ~~MC~~ →

• All Performances

• Radar/ Look = P

• Inside →

• ~~Exactly~~ X recitations

•

Trend - opp

10 Budget Trend

- O & G / personnel
- Improvement

• Radar X sections

- P_A of Now/Now as opposed to other cases
- Fold in X sect / X off now
- fold in Radar MSL with Radar
- Fold in H's to comparison
- Fold in EW
- Why Radar Hall

• Mike can you pick up
the two ~~last~~ - to books
results better

• Ricciani argument on
radio - find page

Contractors banded up

bout:

• Being after ~~the~~ with
independent law firm,

• ~~Result~~ Caused by
language in bill.



← Demands →

- Replacement
 - ~~+~~ Joint Shop
 - Six months
 - Where to go.
 - Number board
-
- Fundamentals of RTT Combat

• Consider different ideas embodied in EMI and differing results associated with digital simulation, manned simulation and real world

• Show



16/10/7

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE

DIRECTORATE OF
OPERATIONAL REQUIREMENTS AND DEVELOPMENT PLANS
DEVELOPMENT PLANS & ANALYSIS GROUP
(AF/RDQL)

DATE

MEMO FOR

Presbyterian

~~*Presbyterian*~~

Presbyterian Home

• Lutheran Church

— John Britton

• Episcopalian

— St Paul

6-1, 6-2

money -

check this
out

FLIGHT MEDICINE CLINIC
Rm 4A 750, The Pentagon
Wash, DC 20330

EXCEPT FOR EMERGENCIES, SICK CALL IN THE FLIGHT MEDICINE CLINIC IS BY APPOINTMENT ONLY. WE REQUEST ALL PATIENTS TO COOPERATE SO THAT WE MAY GIVE EVERYONE ADEQUATE TIME FOR HIS MEDICAL PROBLEMS.

FOR AN APPOINTMENT PLEASE CALL: 74598 or 79014

NOTIFICATION FOR PERIODIC OR FLYING PHYSICAL EXAMINATION IS GIVEN BY MILITARY PERSONNEL, X 71080.

1.2/0.9/100/0.8
DEC 1.2/0.9/0.8

Proposal

Prototype

Operational

B 908

8.2/10.2/39/4.1

8.0/9.0/42/4.0

7.7/8.7/43/3.9

LV 1101

9.5/11.2/37/4.0

8.7/10.4/45/3.8

8.2/9.8/48/3.6

GD 901

8.4/10.5/46/5.3

7.8/9.6/50/5.0

7.5/9.2/52/4.8

L 1601

6.4/8.5/54/3.7

6.0/8.1/48/3.5

5.8/7.8/71/3.4

1201

8.9/11.3/46/5.2

7.9/10.4/57/4.8

7.6/10.0/59/4.6

908

17,990/26.7

18097/26.7

1101

16,756/24.7

17842/24.7

401

16960/4342/4900

18099/25.5

18899/25.5

1601

20402/27.8

21146/27.8

601

20465/26.3

21,077/26.3

MEMORANDUM
OF CALL

TO:

Col Boyd

☒ YOU WERE CALLED BY—

☐ YOU WERE VISITED BY—

Col Tucker

OF (Organization)

Langley

☒ PLEASE CALL →

PHONE NO.
CODE/EXT. _____

☐ WILL CALL AGAIN

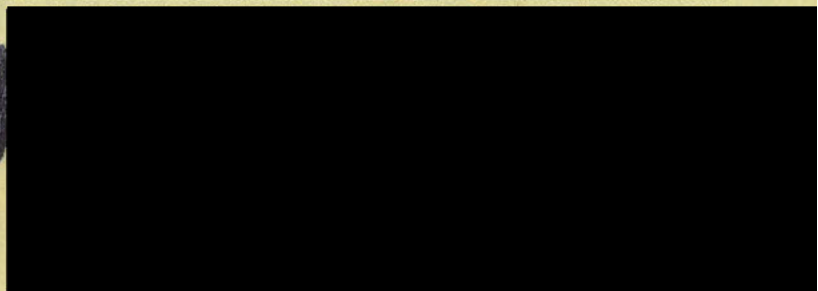
☐ IS WAITING TO SEE YOU

☐ RETURNED YOUR CALL

☐ WISHES AN APPOINTMENT

MESSAGE

Autovon



Re: ATF - What
should they study?

RECEIVED BY

ev

DATE

17 Jan

TIME

1307

STANDARD FORM 63

REVISED AUGUST 1967

GSA FPMR (41 CFR) 101-11.6

GPO : 1969-048-16-80341-1 332-389

63-108

- 8 Jack Dawsey Letter
- John Chapman - "Worthless"
 - Heersey - "Friend of Jack at Harttrap"

Options

- Keep it at ASD
- Move it elsewhere at WP
- esp (PDL)
- Move it to Rand, or NASA or etc.

Recommendation:

- Keep it at ASD and — (JC)
- Send RDEL Letter drafted for Chief's signature.

[REDACTED]

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
WASHINGTON, D.C.



REPLY TO: SAGF
ATTN OF:

SUBJECT: SABER JET (FOXTROT) [REDACTED]

TO: AF/AFRDQL (Colonel Boyd)

1. You raised two questions concerning the results, "Why do the 17 wings of F-5E get so much improvement from the GCI environment?" and "Why do 12 wings of Light Weight Fighters do worse than 9 wings when they operate in the GCI environment?".

2. Both questions are difficult to answer since they are placed in terms of an improvement factor I, defined by you to be the Exchange Ratio when Blue attacks Red divided by the exchange ratio when Red Attacks Blue. The improvement factor is computed for two cases in which more than one variable is changing. For example in the denominator of the improvement factor, 17 wings of F-5E's are added to 692 F4-E's, and they fight in the enemy GCI. In the numerator 17 wings of F-5E's are added to 1018 aircraft of three different types, and they fight in their own GCI. To further complicate the matter in the denominator the Blue forces are opposed by a Red force of 2393 Fishbed J's and Floggers. In the numerator the Blue forces oppose 1769 aircraft composed of four different types.

HQ USAF

Classified by DIR GEN PWR & ALET STDY
SUBJECT TO GENERAL
DECLASSIFICATION SCHEDULE
OF EXECUTIVE ORDER 11652
AUTOMATICALLY DOWNGRADED
AT TWO YEAR INTERVALS.
DECLASSIFIED ON
31 DECEMBER 1979

[REDACTED]

2

[REDACTED]

Even if the assumption is made that all the variable changes produce linear effects, it is virtually impossible to separate the effects. It could be that the F-5E gets more benefit from the GCI than the LWF because there are more of them. There are 1.42 as many F-5E's as there are LWF's if you compare 17 wings of F-5E's to 12 wings of LWF's. If you apply this factor, 1.42, to your improvement factor for the 12 wings of LWF, 1.41, then you get an improvement of 2.1 for the 17 wings of F-5E's which is approaching the actual number 2.29. This ignores the effect of the differences in size and composition of the Blue base forces being compared, and the size and composition of the Red forces being compared.

3. The second problem is the one of comparing the performance of 9 wings of LWF on the defense with 12 wings of LWF on the defense. Again with the complications of the interactions taking place it is difficult to assess the effect of the changes. In one case adding the 3 wings caused the number of Reds killed in a raid to increase from 49 to 54. At the same time the number of Blue killed increased from 12 to 14. The net effect was to decrease the exchange ratio from 4.1 to 3.9. So it is difficult to assess the effect of marginal returns when the returns are being computed from two different points of view, and then made into a ratio.

- [REDACTED]
- all the variable changes
- it is really impossible to separate
4. The model was changed (improved?) for the analytical work in SABER JET (GOLF) and SABER SCAN (ALPHA). Therefore, it no longer exists in its original format and I am unable to run the 7 Wings of LWF Case.
5. We are using TAC ENGAGER as a genesis for a new look at the air battle problem. We plan to make it capable of fighting a FEBA air battle as well as the airfield attack and airfield defense. It will if possible measure the effects of ECM, EECM, weather, and other items that were beyond the scope of the previous effort.
6. We would appreciate any help you can give us in this project.

Robert B. Piper
ROBERT B. PIPER, Lt Col, USAF
SABER WARRIOR Study Director
ACS/Studies and Analysis

Hope this answers most of your question. Give us a call if you want to pursue this further.

CONFIDENTIAL

17
50000

1

1

4. The model was changed (improved) for...
work in SABER and (SABER) and SABER (SABER).
it no longer exists in the original format and I am...
to run the Wings of the...
5. We are using TAC ENGINEER as a general for a new look...
the air battle problem. We plan to make its capabilities...
a FEA air battle as well as the airfield attack and airfield...
detected. It will be possible measure the effects of ECM...
ECM, weather, and other items that were beyond the scope of...
the previous effort.

6. We would appreciate any help you can give us in this

project

ROBERT A. PIER, Lt Col, USAF
SABER WARRIOR Study Director
AC/Secur and Analysis

Hope the...
question...
and to give the...
1-1-77

CONFIDENTIAL

WD EOE

1.2 0 6.46
0.9 0 8.46
ACC 0 50
G 0 3.76

CBG

6.66
8.50
52.8
3.65/3.74 (w overtrial)

• WE — 26,915
WA — 500
WFO — 10,400
R — 3800
WCF — 6600
ACIF — 7100
ACW — 34,015

MF

• B N-1 N-2 L GD LTV
+65 +27 +33 -15

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Capt Leopold:

Address: USAFA/DFEE
Colorado Springs, CO 80840

Phone:

A. Work - Autovon
or A/C 303

B. BOQ - A/C 303

INTERNATIONAL CERTIFICATE OF VACCINATION OR REVACCINATION AGAINST SMALLPOX CERTIFICAT INTERNATIONAL DE VACCINATION OU DE REVACCINATION CONTRE LA VARIOLE

This is to certify that

Je soussigné(e) certifie que

whose signature follows

dont la signature suit

has on the date indicated been vaccinated or revaccinated against smallpox with a freeze-dried or liquid vaccine certified to fulfill the recommended requirements of the World Health Organization.

a été é vacciné(e) ou revacciné contre la variole à la date indiquée ci-dessous, avec un vaccin lyophilisé ou liquide certifié conforme aux normes recommandées par l'Organisation mondiale de la Santé.

sex

sexe

date of birth

né(e) le

2
Date

Show by "X"
whether

Indiquer par "X"
s'il s'agit de

Signature, professional status, and address
of vaccinator

Signature, qualité professionnelle, et adresse
du vaccinateur

Origin and batch
no. of vaccine

Origine du vaccin
et numéro du lot

Approved stamp

Cachet
d'authentification



2



Revaccination

I. INTERNATIONAL CERTIFICATES OF
VACCINATION
AS APPROVED BY
THE WORLD HEALTH ORGANIZATION

(EXCEPT FOR ADDRESS OF VACCINATOR)
CERTIFICATS INTERNATIONAUX DE VACCINATION
APPROUVÉS PAR
L'ORGANISATION MONDIALE DE LA SANTÉ
(SAUF L'ADRESSE DU VACCINATEUR)

II. PERSONAL HEALTH HISTORY

TRAVELER'S NAME—Nom du voyageur

Boyd, John Richard

ADDRESS
ADRESSE

(Number—Numéro)

(Street—Rue)

(City—Ville)

(County—Département)

(State—État)

U.S. DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE

PUBLIC HEALTH SERVICE



PHS-731
Rev. 9-66

READ CAREFULLY
INSTRUCTIONS
Pages 10 and 11

*Transcribed from Off Dept
of Defense Records JAW/DM*

INTERNATIONAL CERTIFICATE OF VACCINATION OR REVACCINATION AGAINST YELLOW FEVER

CERTIFICAT INTERNATIONAL DE VACCINATION OU DE REVACCINATION CONTRE LA FIÈVRE JAUNE

This is to certify that
Je soussigné(e) certifie que sex
..... sexe
whose signature follows
dont la signature suit date of birth
né(e) le
has on the date indicated been vaccinated or revaccinated against yellow fever.
a été vacciné(e) ou revacciné(e) contre la fièvre jaune à la date indiquée.

Date	Signature and professional status of vaccinator Signature et qualité professionnelle du vaccinateur	Origin and batch number of vaccine Origine du vaccin employé et numéro de lot	Official stamp of vaccinating center Cachet officiel du centre de vaccination
4			
2.			

5 THIS CERTIFICATE IS VALID only if the vaccine used has been approved by the World Health Organization and if the vaccinating center has been designated by the health administration for the country in which that center is situated.

THE VALIDITY OF THIS CERTIFICATE shall extend for a period of 10 years, beginning 10 days after the date of vaccination or, in the event of a revaccination, within such period of 10 years, from the date of that revaccination.

Any amendment of this certificate, or erasure, or failure to complete any part of it, may render it invalid.

CE CERTIFICAT N'EST VALABLE que si le vaccin employé a été approuvé par l'Organisation Mondiale de la Santé et si le centre de vaccination a été habilité par l'administration sanitaire du territoire dans lequel ce centre est situé.

LA VALIDITÉ DE CE CERTIFICAT couvre une période de dix ans commençant dix jours après la date de la vaccination ou, dans le cas d'une revaccination au cours de cette période de dix ans, le jour de cette revaccination.

Toute correction ou rature sur le certificat ou l'omission d'une quelconque des mentions qu'il comporte peut affecter sa validité.

INTERNATIONAL CERTIFICATE OF VACCINATION OR REVACCINATION AGAINST CHOLERA CERTIFICAT INTERNATIONAL DE VACCINATION OU DE REVACCINATION CONTRE LE CHOLÉRA

This is to certify that
Je soussigné(e) certifie que

sex
sexe

whose signature follows
dont la signature suit

date of birth
né(e) le

has on the date indicated been vaccinated or revaccinated against cholera.
a été vacciné(e) ou revacciné(e) contre le choléra à date indiquée.

Series Completed 1965

Date	Signature, professional status, and address of vaccinator Signature, qualité professionnelle, et adresse du vaccinateur	Approved stamp Cachet d'authentification
		1. 
		2. 
3.		3.

THE VALIDITY OF THIS CERTIFICATE shall extend for a period of 6 months, beginning 6 days after the first injection of the vaccine or, in the event of a revaccination within such period of 6 months, on the date of that revaccination.

The approved stamp mentioned above must be in a form prescribed by the health administration of the country in which the vaccination is performed.

Any amendment of this certificate, or erasure, or failure to complete any part of it, may render it invalid.

LA VALIDITÉ DE CE CERTIFICAT couvre une période de six mois commençant six jours après la première injection du vaccin ou, dans le cas d'une revaccination au cours de cette période de six mois, le jour de cette revaccination.

Le cachet d'authentification doit être conforme au modèle prescrit par l'administration sanitaire du territoire où la vaccination est effectuée.

Toute correction ou rature sur le certificat ou l'omission d'une quelconque des mentions qu'il comporte peut affecter sa validité.

CERTIFICATE (Continued) CERTIFICATE (Suite)

Cholera

Date	Signature, professional status, and address of vaccinator Signature, qualité professionnelle, et adresse du vaccinateur	Approved stamp Cachet d'authentification
4.		4.
5.		5.
6.		6.
7.		7.
8.		8.
9.		9.
10.		10.
11.		11.
12.		12.

INSTRUCTIONS TO PHYSICIANS

1. Information requested on each certificate must be complete for the certificate to be valid; otherwise, the person may be subject to surveillance or isolation when these certificates are required for international travel.
2. The space for primary vaccination against smallpox is to be used only when a person receives his vaccination for the *first* time. If unsuccessful a new certificate must be used for a repeat primary vaccination.
3. The dates on each certificate are to be written with the day in arabic numerals, followed by the month in letters and the year in arabic numerals. Example: October 1, 1966, should be written 1/Oct./66.
4. Vaccinations may be performed by a nurse or medical technician if under a physician's direct supervision. The physician's *written* signature must appear on the certificate; signature stamp is not acceptable.
5. If vaccination is contraindicated the physician should provide the person with a written opinion, which port health authorities *may* take into account.
6. Official immunization requirements for international travel and the list of designated yellow fever vaccination centers in the United States are contained in the booklet "Immunization Information for International Travel, PHS No. 384, on sale at the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C., 20402. Changes in requirements may be obtained from local or State health departments.
7. Additional information concerning certificates and immunization requirements may be obtained from the Foreign Quarantine Program, National Communicable Disease Center, U.S. Public Health Service, Atlanta, Georgia 30333.

INSTRUCTIONS TO THE TRAVELER

1. Properly complete the cover sheet of this booklet before presenting it to your physician.
2. It is the responsibility of the traveler to have the "*approved stamp*" applied to the smallpox vaccination certificate or the cholera vaccination certificate. If both vaccinations are obtained, each certificate must have the "*approved stamp*." These certificates are not *valid* without the stamp and may not be accepted when required in international travel.

In the United States the stamp is that of the *local* or *State Health Officer* of the area in which the immunizing physician practices. The certificate may be mailed to the health officer for this service if time permits its return. If mailed enclose a self-addressed, stamped envelope to ensure return.

Other "*approved stamps*" are (1) the stamp of the Department of Defense; (2) the stamp assigned to official Yellow Fever Vaccination Centers; (3) the seal of the Public Health Service; (4) or a stamp authorized by the Public Health Service.

3. When yellow fever vaccination is needed for international travel it must be received at a designated center. The list of designated centers in the United States is contained in the booklet "Immunization Information for International Travel," PHS No. 384.
4. Immunization requirements—see items 6 and 7, page 10.
5. Travelers revaccinated against cholera or yellow fever during the period of validity of a current vaccination certificate should retain the old certificate for a period of 6 days in the case of cholera and 10 days for yellow fever.

II. The information which follows is a record of other immunizations which the traveler has obtained as an additional health protection for international travel. These immunizations are *not* usually required for entrance by any country. Space is also provided for a personal health record in case of illness or accident while traveling abroad.

OTHER IMMUNIZATIONS (Typhus, Typhoid, Plague, Poliomyelitis, Tetanus, etc.)

REMARKS CONCERNING VACCINATIONS—REMARQUES CONCERNANT LES VACCINATIONS

Date	Notes	Physician's signature and address Signature et adresse du médecin

This information is to assist any physician called upon to treat an ill traveler.
Cette information est pour aider le médecin qui peut être appelé pour traiter un voyageur malade.

Date	Rh type type Rh	Blood group Groupe sanguin	Name and address of physician—Signature et adresse du médecin

Name and address of person to notify in case of emergency.
Nom et adresse de la personne à aviser en cas d'urgence.

3	☐ Revaccination			
4	☐ Revaccination			
5	☐ Revaccination			

THE VALIDITY OF THIS CERTIFICATE shall extend for a period of 3 years, beginning 8 days after the date of of a successful primary vaccination* or, in the event of a revaccination, on the date of that revaccination.

The approved stamp mentioned above must be in a form prescribed by the health administration of the country in which the vaccination is performed.

Any amendment of this certificate, or erasure, or failure to complete any part of it, may render it invalid.

LA VALIDITÉ DE CERTIFICAT couvre une période de trois ans commençant huit jours après la date de la primovaccination effectuée avec succès (prise) ou, dans le cas d'une revaccination, le jour de cette revaccination.

Le cachet d'authentification doit être conforme au modèle prescrit par l'administration sanitaire du territoire où la vaccination est effectuée.

Toute correction ou rature sur le certificat ou l'omission d'une quelconque des mentions qu'il comporte peut affecter sa validité.

*See page 10, item 2.