TRANSMITTAL SLIP | DATE *9/20/83*

TO: *ICS Registry*

ROOM NO. | BUILDING

REMARKS:

DIA review completed.

FROM:

ROOM NO. *350* | BU

(47)

FORM NO. 241   REPLACES FORM 36-8
WHICH MAY BE USED.

SECRET

DCI/ICS 83-8015
16 September 1983

MEMORANDUM FOR THE RECORD

25X1

FROM:

Planning and Policy Staff/ICS

2 0 SEP 1983

LOGGED

SUBJECT: Notes from the Technology Steering Panel Meeting
with RADM John Butts, DNI/USN, on 1 Sept 83

25X1

1. The Technology Steering Planel (TSP) met with Rear Admiral John Butts on 1 September 1983. The purpose of the meeting was to solicit his views on future issues that the Intelligence Community will face (1985-1995 time period), and the Navy's plans for dealing with these issues.

25X1

2. Admiral Butts opened the meeting with a brief review of an R&D investment strategy recently completed by the office of the DNI. Copies of the study have been requested and will be available for any panel member who desires to review. The Admiral stated that a formal review process has been established to gauge the progress of implementation and provide any necessary redirection.

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3. Rear Admiral Butts then presented three areas that he believed will pose serious and continuing problems for the Intelligence Community.

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DEFENSE INTELLIGENCE AGENCY
WASHINGTON. D.C. 20301

ATTACHMENT 1

5456/83

General Defense
Intelligence Program

S-056/83   22 April 1983

MEMORANDUM FOR THE DEPUTY DIRECTOR OF CENTRAL INTELLIGENCE

SUBJECT: Joint National Intelligence Dissemination System (JNIDS) (U)

(S) The Joint National Intelligence Dissemination System (JNIDS) is the GDIP initiative to develop new analytical and collection management techniques and technologies to handle the intelligence data flood expected in the mid-1980's. I am providing this report because of the importance I attach to its success.

(S) These are the major elements of the JNIDS analytical R&D effort:

-- Build an intelligence information management system based on approved ADP programs, such as SAFE, IAIPS, and SOLARS/IDHS-80.

-- Determine the analytical and collection management potential of emerging technologies, such as very large-scale integration, very high-speed integrated circuits, optical readers, and artificial intelligence.

-- Develop a joint test bed to evaluate technology applicable to processing, tasking initiation, cuing, cross-cuing, and interaction between the processing system and data bases.

-- Focus initially on SLBM and SS-20 adaptive targeting.

-- Use real-world events to determine data level and flow and apply the lessons learned to JNIDS development. For example, CINCLANT's planned I&W demonstration against Soviet navy activity in June will be extremely valuable if the Soviets include a strategic SSBN exercise.

-- When the groundwork has been done, probably in FY 86-87, determine the features of the system and begin acquisition.

(U) DIA, the Military Services, SAC, and NAVINTCOM are collaborating on JNIDS under the Director of Naval Intelligence, who is my executive agent for the program. NSA is an observer. Nine corporations, including Westinghouse, and Lockheed, are participating with focused internal company R&D that will lead to specific intelligence processing applications. Academe is represented by Stanford, the Carnegie Mellon Institute, and Yale.

CLASSIFIED BY: DIA/DG
DECLASSIFY ON: OADR

SECRET

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(U) Here is our current status:

    -- We have established a cadre program development office out of hide.

    -- The program memorandum of agreement is being expanded and refined.

    -- We have started concept development and a cross-program and technical survey.

    -- The initial project management plan is being developed.

(S) For the near-term, we will concentrate on:

    -- Establishing the formal program development office in FY 84.

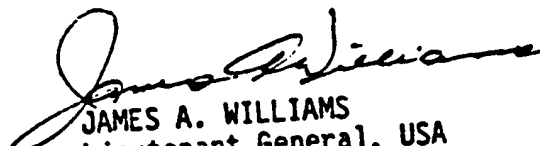   -- Feasibility studies, starting in FY 84.

    -- Applications for the Soviet 1983 Spring SSBN strategic exercise.

    -- A base-line concept of operation and development plan.

    -- A SSBN data base and data base management system to support the focused analysis effort.

(U) I am comfortable with the direction and progress that we have made. I am convinced that JNIDS will yield positive and significant results. _____ who has been closely associated with it from the start, participates with the oversight group and is fully involved in the program. I look forward to your continued support.

25X1

JAMES A. WILLIAMS
Lieutenant General, USA
Program Manager

cc:
D/ICS ✓
ACSI, USA
DNI, USN
ACSI, USAF

SECRET

12 April 1983
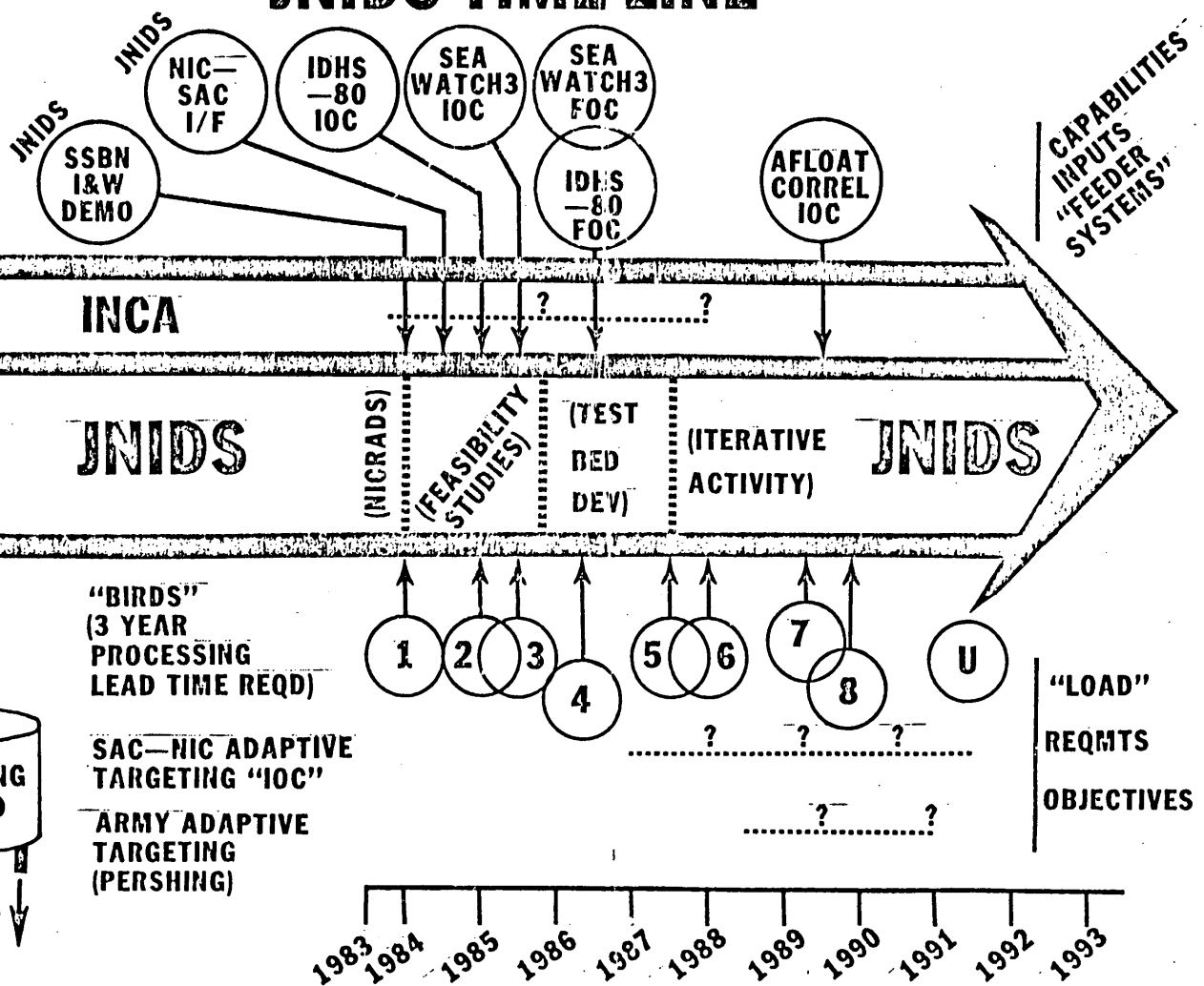
NOTE FOR: Distribution

STAT

FROM: _____ , D/PPS

The attached is distributed for your

information per D/ICS.

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Attachment

1-C/CIPC
1-C/COMIREX
1-C/SIGINT
1-C/HUMINT
1-C/FIPC
1-D/PBS
1-C/IHC
1-C/SECOM
1-C/CCIS
1-C/SS
1-C/FLTC
1-C/LL

JNIDS TIME LINE

JNIDS

JNIDS

JNIDS

SSBN I&W DEMO

NIC— SAC I/F

IDHS —80 IOC

SEA WATCH3 IOC

SEA WATCH3 FOC

IDHS —80 FOC

AFLOAT CORREL IOC

CAPABILITIES INPUTS "FEEDER SYSTEMS"

INCA

? ?

JNIDS

(NICRADS) (FEASIBILITY STUDIES) (TEST BED DEV) (ITERATIVE ACTIVITY) JNIDS

"BIRDS" (3 YEAR PROCESSING LEAD TIME REQD)

1 2 3 4 5 6 7 8 U

SAC—NIC ADAPTIVE TARGETING "IOC"

? ? ?

"LOAD"

REQMTS

OBJECTIVES

ARMY ADAPTIVE TARGETING (PERSHING)

? ?

EXISTING LOAD

1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993

JNIDS

$PP8$

11 APRIL 1983

STATUS REPORT/DECISION BRIEF

JOINT NATIONAL INTELLIGENCE DISSEMINATION SYSTEM

ATTACHMENT 2

JNIDS

FY'83 ACTIVITIES

— PRELIMINARY CONCEPT DEVELOPMENT

— PRELIMINARY JNIDS STATEMENT OF REQUIREMENT

— TECHNOLOGY SURVEY (ONR - BETAC)

— PRELIMINARY PROJECT MANAGEMENT PLAN

— RENEGOTIATING MOA

— 6 + 3 NICRADS

— BASE-LINE SYSTEM CONCEPT
  — SSBN DATA BASE (NOSC - PRC/CTEC)
  — DATA BASE MANAGEMENT SYSTEM (NOSC)
  — ARTIFICIAL INTELLIGENCE (DAPRA - AI&DS)
                                  (ONR - COGNITIVE)

JNIDS

1983 NICRADS

BETAC
— JNIDS REQUIREMENTS ANALYSIS
— JNIDS PROCESSING SYSTEM ANALYSIS

PRC
— NIC - SAC COMMS INTERCONNECTIVITY
— IDHS - 80/IAIPS DATA BASE INTERFACE

WESTINGHOUSE
— VHSIC AND AI TECHNOLOGIES APPLICATION

JNIDS

1983 NICRADS (CONT'D)

LOCKHEED/MSD
— JNIDS ARCHITECTURE
— SSBN/SS-20 ANALYSIS
— SSBN DISPERSAL SCENARIO

TRW
— RECOMMENDED TECHNOLOGY
— STATE-OF-THE-ART COLLECTION MANAGEMENT TECHNIQUES

CTEC
— SS-20/SSBN DATA PROCESSING SYSTEM

JNIDS

ADDITIONAL
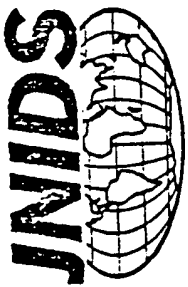# NICRADS (FY83 - 84)

LOGICON
— INFORMATION PROCESSING ARCHITECTURE
— DATA BASE MANAGEMENT TECHNIQUES
— ARTIFICIAL INTELLIGENCE APPLICATIONS

GTE-SYLVANIA
— DATA BASE ARCHITECTURE
— DATA BASE MANAGEMENT SYSTEMS
— ARTIFICIAL INTELLIGENCE
  — LANGUAGE
  — DATA BASE ARCHITECTURE
  — PROCESSING APPLICATIONS

COGNITIVE
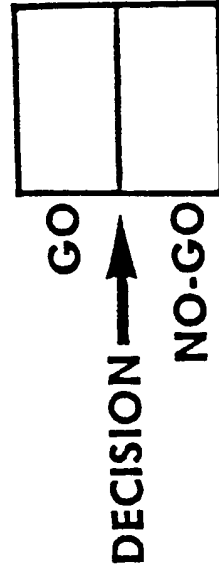— ARTIFICIAL INTELLIGENCE
  — DISCOVERY SYSTEMS

JNIDS

FY '83 SPENDING PLAN

CONTRACT
— JNIDS STATEMENT OF REQUIREMENT
— JNIDS CONCEPT DEVELOPMENT

CONTRACTOR
— BETAC

GO

DECISION

NO-GO

JNIDS

FY '83 SPENDING PLAN (CONT'D)

SSBN I&W DEMONSTRATION

— MAY - JUNE 1983

CINCLANTFLT   NFOIO

CINCPACFLT   DIA

                      USAF

CONTRACT

— SCOPE DATA VOLUMES

— MAP DATA FLOW

— DEVELOP "LESSONS - LEARNED" IN
    PROCESSING

CONTRACTOR

— LOCKHEED MSD

DECISION → GO / NO-GO

JNIDS

FY '83 SPENDING PLAN (CONT'D)
BASE-LINE SYSTEM

DATA BASE MANAGEMENT SYSTEM		DATA BASE MANAGEMENT SYSTEM

SSBN DATA BASE

INTERFACE

INTERCONNECT

INTERFACE

SSBN DATA BASE

*APPLIED ARTIFICIAL INTELLIGENCE

APPLIED ARTIFICIAL INTELLIGENCE

*DARPA CONTRACT

DECISION → GO / NO-GO

JNIDS
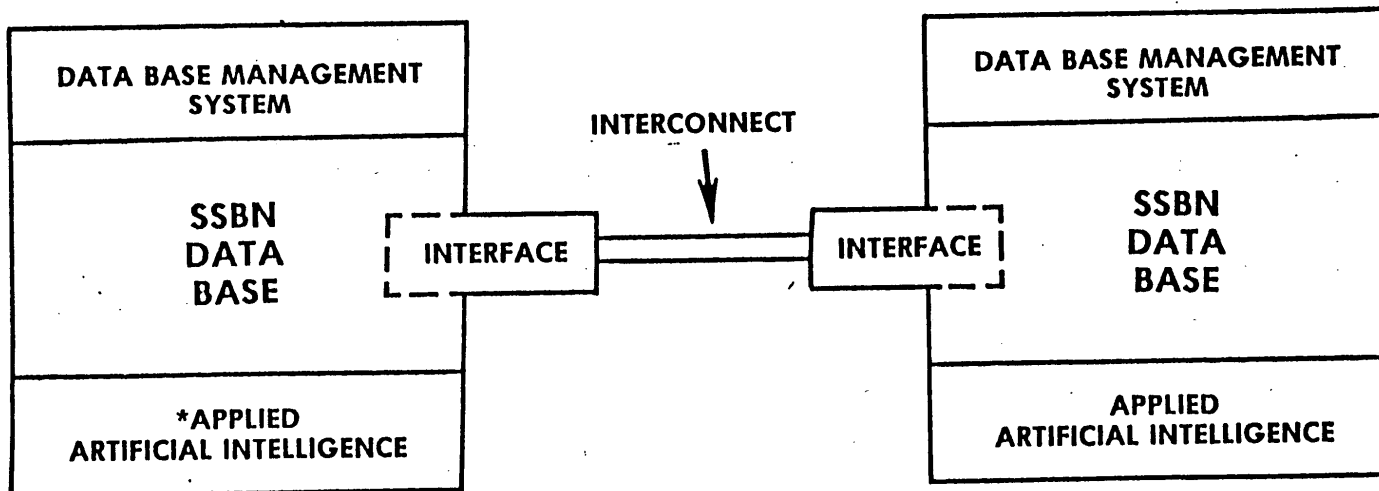
LINKAGE
OF
NICRADS   FEASIBILITY STUDIES

LOGICON
LOCKHEED
GTE-SYLVANIA

DATA BASE MANAGEMENT

WESTINGHOUSE
CTEC
GTE-SYLVANIA
LOCKHEED

DATA BASE ARCHITECTURE

PRC

INTERFACE-INTERCONNECTIVITY

WESTINGHOUSE
GTE-SYLVANIA
COGNITIVE SYSTEMS

ARTIFICIAL INTELLIGENCE

JNIDS
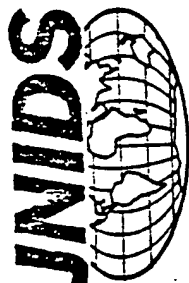
FY 84 FEASIBILITY STUDIES

— DATA BASE MANAGEMENT TECHNIQUES

— DATA BASE ARCHITECTURE

— SYSTEMS INTERFACE — INTERCONNECTIVITY

— APPLICATION OF ARTIFICIAL INTELLIGENCE

GO

DECISION →

NO-GO

JPMO MANNING

JNIDS
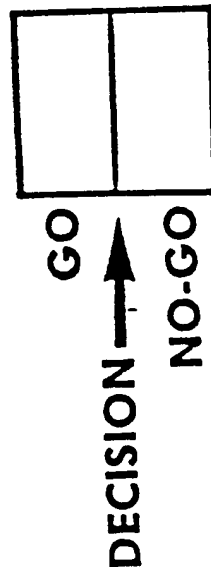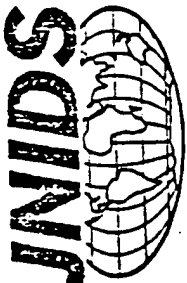
	FY84	FY85	FY86
USN	4 OFFICERS 2 CIVILIANS	4 OFFICERS 2 CIVILIANS	4 OFFICERS 2 CIVILIANS
USAF	2 OFFICERS *2 CIVILIANS	3 OFFICERS 2 CIVILIANS	4 OFFICERS 2 CIVILIANS
DIA	**2 OFFICERS 2 CIVILIANS	3 OFFICERS 4 CIVILIANS	3 OFFICERS 4 CIVILIANS
ARMY	2 OFFICERS	2 OFFICERS	2 OFFICERS
TOTAL	16	20	22

* 1 SECRETARY

** (1-N, 1 AF)

*** (1-N, 2 AF)

JPMO ORGANIZATION

JNIDS

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┌──────────┐        ┌──────────┐
│   JOB    │        │   CNIC   │        ┌──────────┐
│ EXEC AGT │╌╌╌╌╌╌╌╌│          │        │   SAC    │
│  (DNI)   │        │          │        │          │
└──────────┘        └────┬─────┘        └────┬─────┘
                         │                   ╎
                    ┌────┴─────┐              ╎
                    │ PROGRAM  │         ┌────┴─────┐
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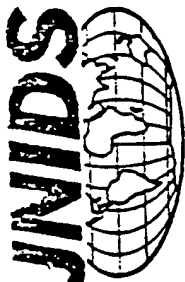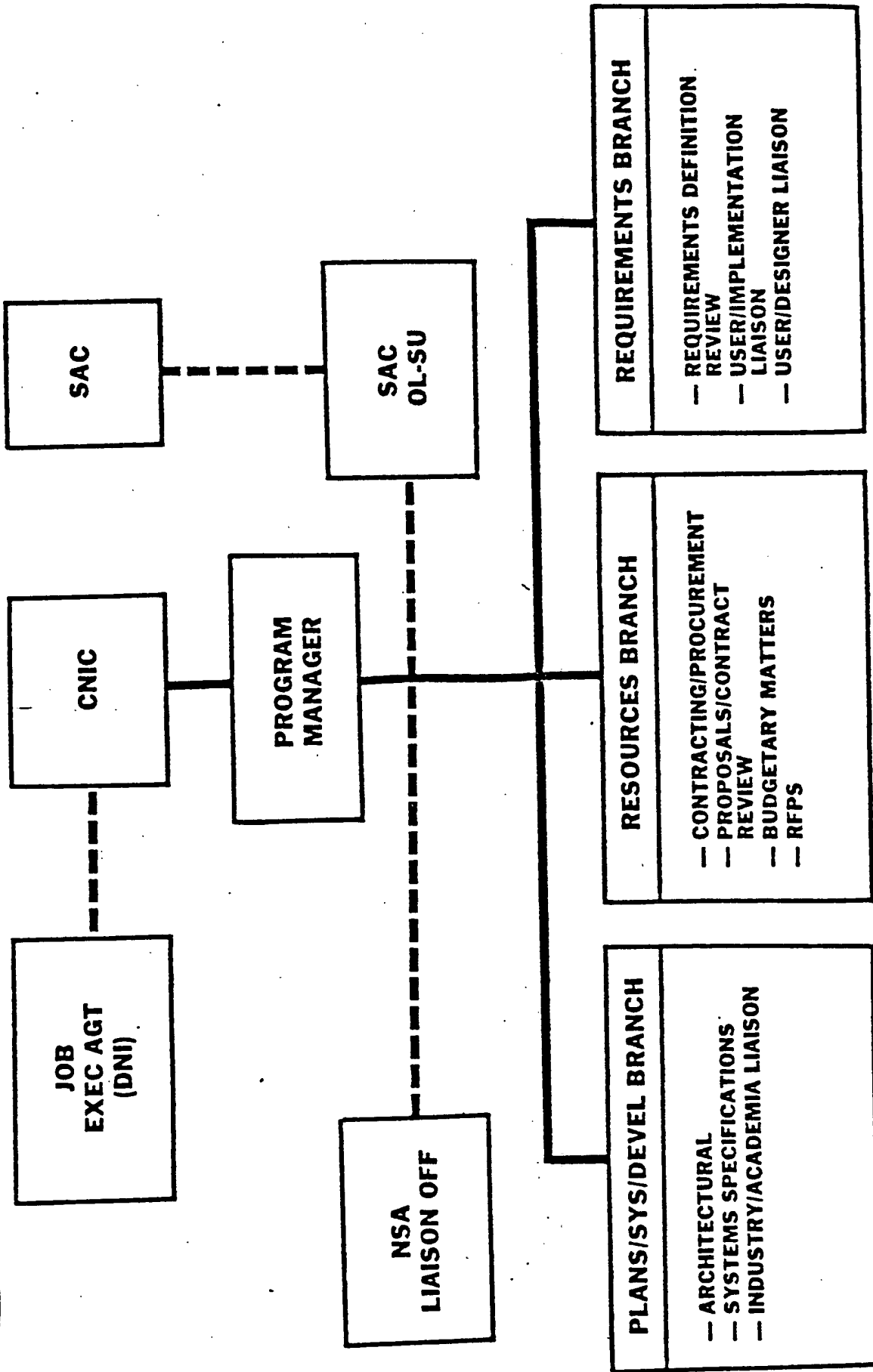
REQUIREMENTS BRANCH
- REQUIREMENTS DEFINITION
- REVIEW
- USER/IMPLEMENTATION LIAISON
- USER/DESIGNER LIAISON

RESOURCES BRANCH
- CONTRACTING/PROCUREMENT
- PROPOSALS/CONTRACT REVIEW
- BUDGETARY MATTERS
- RFPS

PLANS/SYS/DEVEL BRANCH
- ARCHITECTURAL
- SYSTEMS SPECIFICATIONS
- INDUSTRY/ACADEMIA LIAISON

JNIDS

BRIEFINGS
(POST - DEC '83)

ACSI ARMY	(MGEN ODOM)	**NSA, CHIEF A** ___
DASN C³I	(MR KITSON)	**AIR STAFF REPS**
NSA REP DEP	___	**ARMY ACSI STAFF REPS**
D/DIR NSA	(MR RICH)	**ONR (MR DENIKOFF)**
SENATE SCI S	(MR HALL)	**RADC (COMMANDER & STAFF)**
HOUSE SCI S	(MS SMILEY)	**SAC (IN) STAFF**
NSA, CHIEF R	___	**544TH STRAT INTEL WING**
NSA, SPEC AS		**NOSC REPS**

PRC	**GTE-SYLVANIA**
TITAN	**WESTINGHOUSE**
LOGICON	**TRW**
RCA	**LOCKHEED**
E SYSTEMS	**NORTHROP**

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TRANSMITTAL SLIP	DATE 20 September 1983

TO: ICS Registry

ROOM NO.	BUILDING

REMARKS:

2 attachments

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FRO	, ICS/PPS

ROOM NO.	BUILDING	EXTENSION

FORM NO. 241
1 FEB 55

REPLACES FORM 36-8
WHICH MAY BE USED.

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DCI/ICS 83-8014
20 September 1983

MEMORANDUM FOR THE RECORD

25X1

FROM: [   ] PPS

SUBJECT: Notes from the Technology Steering Panel Meeting with
          LTG James A. Williams, Director, DIA, on
          4 August 1983

The Technology Steering Panel (TSP) met with LTG James A. Williams, on

4 August 1983. The purpose of the meeting was to solicit LTG Williams's views

on future issues that the Intelligence Community will face (1985-1995 time

period), and the DIA's plans for dealing with these issues. The attachment

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presents key points presented by LTG Williams during the meeting.

Attachment:
  a/s

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12 Sep 83

LTG WILLIAMS HAS SEEN

1 3 SEP 1983

PRESENTATION TO THE TECHNOLOGY STEERING PANEL (TSP)

4 August 1983

1. (S) Dr. Waespy, Chairman TSP, led off the introduction, stating the purpose of the meeting, the composition of the Panel and specifically referring to the technological needs of HUMINT in the future, the problem of bulk data processing and the uncertainty of what is required for waging nuclear war in the future.

2. (U) LTG James A. Williams, Director DIA, discussed the following issues with the Technology Steering Panel (TSP):

a. (S) The Director said that his primary concern is intelligence support to Unified and Specified Commanders, corps, wings and fleet commanders.

b. (S) He pointed out that communications systems for support of intelligence operations are extremely poor to the point that we cannot move current data now, with current technologies, with any assurance of desired timeliness.

c. (S) Imagery support to commanders is difficult. While TACIES is needed by both the Army and Marines, there is no available technology to substitute for photo interpreters actually doing the read out. Magazine quality imagery, ELINT from ITEP and tactical COMINT are needed out to 300 km from FLOT on what can affect the commander within 96 hours.

d. (U) in addition, he made the following points:

(1) (S) Data bases are not sustainable in terms of people available.

(2) (C) While prioritization is necessary, this very action will dampen third world collection and affect CENTCOM adversely.

(3) (S) The DIA INCA effort demonstrated that DCA is not being taken into account with regard to communications support for intelligence; communications authorities are not being asked by intelligence authorities to provide the necessary support. The Director cited the fact that there are 19 Signal Battalions in Europe now and that we must move information without further involving masses of people.

(4) (S) In the area of treaty verification, he said he is uncertain as to the Soviet intent in their arms strategy; are they planning for ABMs that can be installed quickly; why are their phased arrays pointed towards Africa? He also referred to CREEK FLUSH operations, stating that the NFIP needs 2/3 of these for contingencies in support of commanders.

(5) (S) He mentioned the lack of support for the TR-1 saying that 35 is the stated need, the AF says 19 is the obtainable number, while the real requirement isnot known.

(6) (S) He questioned the value of PARAPSYCHOLOGY, asking whether or not the Soviets could read the contents of safes, yet noting that while the Soviets devote a large amount of assets, the NFIP treats it like a stepchild. He said that AF is expected to exert some help in this area.

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Declassify on __OADR__

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HANDLE VIA COMINT
CONTROL SYSTEM ONLY

(7) (S) Drones should be investigated as worthwhile platforms in support of collection operations.

(8) (S) ADP needs to lean forward and keep an edge on technology rather than reacting to circumstances and events.

(9) (S) Counter intelligence support needs to be brought to bear on technology transfer of high tech data to the Soviet Union. Any substantial curtailment would cut 5 years off their program while 50% curtailment would seriously hurt them. The area needs political attention.

(10) (S) All weather, day night imagery is required.

(11) (S) The Army needs systems to assist in obtaining targets more than 72 km from the FLOT, the present limit.

(12) (C) HUMINT, because it can answer questions that technology cannot, requires rebuilding.

(13) (S) Support to the NCA in a nuclear war should be couched in terms of "did we win or lose", status of resources and condition of the rest of the world at the time.

(14) (S/CCO) He stated that NSA is having difficulty collecting data because of new communications technologies and because the base of interceptable traffic is being reduced. The Director said that more division and lower level COMINT collection and analysis is required as the detail in the analyses at these levels is very valuable in terms of determing warfighting doctrine of our potential enemies.

(15) (S) On the question as to how technology should be handled between the Services and CIA, the Director said it is extremely difficult, but can be done. He then referred to FIST, TACIES, LOCE and other such projects as areas of technological coordination between the Services that are working. He said the influence of the DCI is low in this area. He mentioned his high regard for the D-WIP. He said that R&D must support HUMINT and that search of overt data, use of libraries and close touch with industries is useful in improving R&D for HUMINT.

2. (U) The following members of the TSP and DIA were in attendance:

NAME	ORGANIZATION
LTG J.A. Williams	DIA/DR
	DIA/DT
William Schmitt	ICS
	DIA/DT WSSIC
	DIA/DI
Fred Cirillo	TTIC CIA/TTAC
Bruce T. Murland	STIC
S.A. Newton, Jr.	C/JAEIC
Jim Lynch	C/FIC
	DIA/DP-1
	DIA/DP-1

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