19 Apr 83

TABLE OF CONTENTS - ESD MANUAL

25X1

GLOSSARY

BINLOC	Bin Location Program
CAT	Conserv-a-trieve
CE	Current Exploitation
CMS	Communications Management System
CPAT	Collection, Planning, and Targeting
CPC	Computer Program Component
CPCI	Computer Program Configuration Item
CTF	Conserv-a-trieve File
DMR	Data Management Routine
DMS	Data Management System
E/F	Exploitation Facility
ESD	Exploitation Support Data
FAL	File/Activity Log
I/S	Imaging Satellite
MPF	Mission Parameters File
NDS	NPIC Data System
O/F	Operations Facility
PAS	Prediction/Assignment/Status Data
PASF	Prediction/Assignment/Status File
PE	Preliminary Exploitation
PF	Prediction File
PI	Photo Interpreter

PIF	PI On-Duty/Skills File
PLF	Packet Location File
RSI	Remote Symbiont Interface
SCF	Spot Cable File
T/C	Terrestrial Communications
TIP	Transaction Interface Package
TPDF	Temporary Prediction Data File
XAU	Applications Support Utilities CPCI
XCH	Communication Handling CPCI
XES	Exploitation Support CPCI
XMN	Mensuration CPCI
XMS	Exploitation Management Support CPCI
PFF	Page Format File

POT/OPERATIONAL TAPES - MISCELLANEOUS

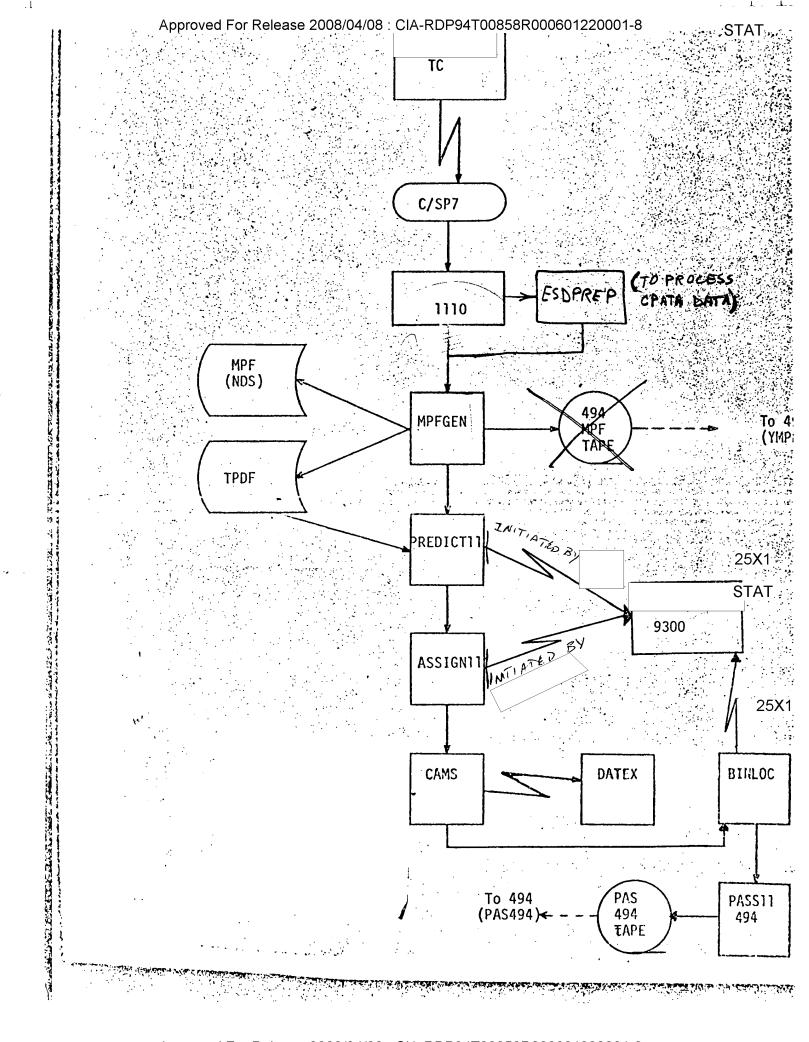| TYPE	#REELS	LABEL	SERIES	RETENTION	LOCATION
Highlite (SPOT) Cable	1 3 Times a Day	Hilite MRN/SSN Mission # Cable #	6000	1 Week	Library
Summary Cable (PEG)	1 Twice a Day	Summary MRN/SSN Mission # Cable #	6000	3 Months	Library
Special Summary Cable	1	Special Summary MRN/SSN Mission # Cable #	6000	3 Months	Library
CPAT	1, Retrans- mission Only	CPAT Feedback MRN/SSN Time	6000	1 Day	Library
CAMS Photo Reference	1	CAMS Photo Reference MRN/SSN	6000	1 Day	Library
Site System Engineering (KGSSE)	1	KGSSE	6000 ~~9 2099~~		Library
MPF Tape	1 Reel Per Pass	YMPF IS/PASS REV Time	6000	1 Week	Library
CAMS PREDICT	1, Retrans- mission Only	CAMS PRED LIST MRN/SSN IS/PASS/REV Time	6000	1 Day	Library
EEI (1110 ONLY) Per CAMS Request	1	EEI File for CAMS Time	6000	2 Cycles	Library

POT/OPERATIONAL TAPES - MISCELLANEOUS (Continued)

TYPE	#REELS	LABEL	SERIES	RETENTION	LOCATION
SOAK (Both 494 & 1110)	1	RPT 76 Mission # Cable # (PEG for 1110) (IEG for 494)	1110-6000 494-Ø-2999	1 Month	Library
COAK (Both 494 & 1110)	1, If pro- duced	COAK Mission #, Cable # (PEG for 1110) (IEG for 494)	1110-6000 494-Ø-2999	1 Cycle	Library
BOAK	1	BOAK Mission #, Cable # (PEG for 1110) (IEG for 494)	1110-6000 494-Ø-2999	1 Cycle	Library
Microfiche (Both 1110 & 494)	1	Micro Mission #, Cable # (PEG for 1110) (IEG for 494)	1110-6000 494-Ø-2999	1 Cycle	Library
Plot Tapes	1	Plot IS/PASS Mission #, Date	6000	1	Scratch After Plotting
PAS Archive	2	Already Labled	6322, 6301	10	1110 Room
CRF Archive	2	Already Labled	6233, 6336	10	1110 Room

POT/OPERATIONAL TAPES - BACKUP & RECOVERY

TYPE	#REELS	LABEL	SERIES	RETENTION	LOCATION
Audit Trail Tape	3-4 Per Day	Operational Audit Trail Time:	6000	1 Cycle	1110 Room
Weekly Data Base Secure	22 Per Week	Operational Data Base Weekly (DBSTON) TIME:	6000 Generations in Library	4 Cycles	Library
Daily Data Base	10 Per Day	Operational Data Base Daily (Daily DMP N) TIME:	5000-5050 (Old Contingency Tapes)	4 Cycles	1110 Room
PFF Save	1 Per Day	Daily PFF Time	6478,6045,6170	3 Cycles	1110 Room
Weekly Secure	6	Secure Save All Operational Time:	6000-6099	3 Cycles	1110 Room
Daily Secure	3	Secure Daily Time:	6000-6099	3 Cycles	1110 Room
Rolout	-	Rolout Operational	6000-6099	Until Inactive	1110 Room
Backup Master	1 Per Day	Backup Master Operational	6000	7 Cycles	1110 Room
	1 Per Day	LIBSAVE Operational Time:	6000	3 Cycles	1110 Room
TSS File	1	TSS File Operational Time:	6000	3 Cycles	1110 Room
Account File		Account File Operational Time:	6000	3 Cycles	1110 Room

POT/OPERATIONAL TAPES - DUAL IDF PROCESSING

TYPE	#REELS	LABEL	SERIES	RETENTION	DISPERSION
494 Generated Cable (IEG)	1	RPT 75 Cable # MSN #	Ø-2999	3 Months	Library
Intersystem Maintenance TIF Tape	1-2	I/P INTERUPD Time	6000	7 Cycles	Library
1110 SAC Output Tape	1	SAC RPT 75 Cable # MSN #	6000	3 Months	Library

STAT

```
                    ┌──────────┐
                    │    TC    │
                    └──────────┘
                         │
                         ↓
                    ╭──────────╮
                    │   C/SP7  │
                    ╰──────────╯
                         │
                         ↓
                 ┌──────────┐        ┌──────────┐   (TO PROCESS
                 │   1110   │──────→ │ ESDPREP  │    CPATA DATA)
                 └──────────┘        └──────────┘
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MPF
(NDS)

TPDF

MPFGEN

494
MPF
TAPE

To 4:
(YMP;

PREDICT11   INITIATED BY   25X1

9300   STAT

ASSIGN11   INITIATED BY

CAMS   DATEX   BINLOC   25X1

To 494
(PAS494)   PAS
494
TAPE   PASS11
494

1110 OPERATIONS SCHEDULE -- (1800 - 0600)

(1730) -- 1. After release of 1700 highlight and after HDCOPY of 2100 summary, ST POT*CONT.CHISTPAS,,,DMS/DMS (PAS Archival)

(1830) -- 2. After PAS Archival (#1), you may process ESDs as received.

(0815) -- 3. Initiate KGSSE job: modify card deck and load card deck:

      IERRUN

(2115) -- 4. After release of 2100 Summary Cable, initiate external update (if IEG releases cable), and clean up USF (during training period 1 Aug - 15 Sept).

      EXT-UPD. - USE CARD DECK
      ST POT*CONT.DMPUSF,,,DMS/DMS

(2145) -- 5. After Summary Cable and external update (#3), initiate inter-system maintenance:

      ST XAU*SYM.RUNSTRM,,,DMS/DMS

(2215) -- 6. (Sunday - Friday) After inter-system maintenance (#4) FINs, start daily DMS TIPOUT and PFF save:

      ST NDS*RECOVERY.DAILY-OUT-P,,,DMS/DMS
      ST DBS*DATA-PROD-LD.PFFTIPOUT,,,DMS/DMS

      NOTE: Do not hold ESDs or users.

(2215) -- 7. (Saturday) After inter-system maintenance (#4) FINs, initiate weekly DMS TIPOUT.

      ST NDS*RECOVERY.WEEKLY-OUT-P,,,DMS/DMS

      NOTE: Hold ESDs and inform OPs Officer that Data Base will be locked out for about 1-1/2 hours.

      NOTE: If WEEKLY cannot be started before 2300, hold until Sunday, but do daily TIPOUT instead.

(2345) -- 8. Allow ESDs if held by WEEKLY DMS TIPOUT.

1110 OPERATIONS SCHEDULE -- (1800 - 0600) (Continued)

(0000-
 0400) -- 9.   Between ESDs during the hours 0000 - 0400, initiate
               three Data Base maintenance runs.

                    MPF Purge   : ST XAU*CNAK.CPURGEMPF,,,UNIVAC/UNIVAC
                    CRF Archival: ST XAU*CNAK.CHISTCRF,,,DMS/DMS
                    FAL Purge   : ST POT*CONT.PURGE/FAL,,,DMS/DMS

(0545) -- 10.   CPAT Feedback runs.

(1800 -- 11.   Every three hours allow CAMs Photo Reference to run.
 2100   If not in backlog:
 2400
 0300   ST XES*DIANE.   ,,,DMS/DMS
 0600
 0900
 1200
 1500)

1100 OPERATIONS SCHEDULE -- (0600-1800)

(0500)   1. Process ESDs as received.
CPAT

(0800) -- 2. IEG training begins (through 1600)

(0845) -- 3. CPAT Feedback runs.

(0900) -- 4. Morning Highlight runs.

(1100) -- 5. Morning Summary runs.

(1200) -- 6. Noon Highlight runs.

(1630) -- 7. CPAT Feedback runs.

(1700) -- 8. Evening Highlight runs.

9. Start PAS Archival after 1700 Highlight transmitted and after HDCOPY of 2100 Summary taken.

ST POT*CONT.CHISTPAS,,,DMS/DMS

10. Every three hours allow CAMs Photo Reference to run. If not in backlog,

ST XES*DIANE.CAM,,,DMS/DMS

NORMAL SEQUENTIAL PROGRAM OPERATION OVERVIEW:

In normal operation an Exploitation Support Data (ESD) Transmission is received from Ground Communications (GC). The receipt of an ESD message will be announced by the message "DTXØ1 will FIN and "Rsspp" will start; where ss is the satellite number and pp is the PAS number. Rsspp will start the Computer Program Configurations (CPC's), or programs, MPFGEN, PREDICT11, ASSIGN11, CAMS, and BINLOC in series. After the CPC's have run to normal completion, the message, "Rsspp Normal Termination" will appear on the console. "Rsspp*" will precede all the normal console messages for each CPC.

ESD, FUNCTION AND PURPOSE

The ESD shall be transmitted from the Operations Facility (O/F) through the 9480 at G/C, to the Univac 1110 at [   ] The ESD   STAT will be used to produce a comprehensive target acquisition list, identify targets that require confirmation feedback to Collection, Planning, and Targeting (CPAT), locate targets within images, and assign preliminary exploitation responsibility to individual PI's. The transmission of ESD and CPAT data is the primary function of the DLT 310 Enhancement which resides in the C/SP as part of the IPL software. The following console message applys:

"DLT001*RECYC OUT-NO RESP" - The U-1110's C/SP software is attempting to establish communications with [   ] G/C. Acknowledge for   STAT RECYCLE BLOCK is not being received.

OPERATION ACTION - Contact G/C OPS, or [   ] to   STAT verify operational status of DLT communication line (SCM210 CHNL 21). If their end is good, contact NPIC/COMMO

RECYCLE - Operator may initiate a recycle if requested by G/C Of [   ] Simply DN 7/8 and UP 7/8 for transmission   STAT of recycle.

NOTE: If G/C resets the SSN numbers back DLBØØØ, ST POT*CONT.DELETE-
       DLB,,,DMS/DMS

2. "DLT001*RECYC-ACK'D"-

   "DLT001*RECYC-REC'D-

[_____]T/C acknowledged the U1110 C/SP's RECYCLE, and we received   STAT

and acknowledged[_____]RECYCLE. This path is ready to send and   STAT

receive CPAT and ESD traffic.

3. "DTXLLLSTART" - ESD message received from the O/F

   "DTXLLLFIN"   - ESD message successfully received from the

                    O/F, if no error message apperas between

                    START and FIN.

   NOTE: DTX = Data Transmission

          LLL = Last three positions of Sysgen'd Data Line Ter-

                minal line ID (i.e., DLT 001 =[_____]   STAT

The DTX message is in the file name XCH*DLNSSS.

    SSS = Is the unique message station serial number.

    N   = The last letter of the originators routing indicator

          (i.e., RUXFFA = T/C, RUXFFB = O/F[_____]   STAT

    DL = Constant within C/SP software.

7/7 - RMSU03, 9300[_____]   STAT

7/8 - DLT001, 9480

7/9 - DLT002, Datex HDQTS.

7/5 Rmsp02, 9300 como @ NPIC

REQUEST FOR RETRANSMISSION

When it is necessary to get a retransmission of a message from [   ] STAT
the following procedure is to be followed:

1. Inform the Op's Officer of the requested retransmission.

2. Call GC and tell them you are requesting a retransmission.

        a. Give only the last 4 positions of the original messages
            station serial number, i.e., DLB024 - Request B024 be
            retransmitted.

        b. The date and time of the original message may help GC
            locate the message.

3. Log retransmission as such.

MPFGEN, FUNCTION AND PURPOSE:

The MPF Generation CPC is the first program to be executed upon receipt of an ESD. MPFGEN does the processing necessary to generate three principal outputs: (1) The Mission Parameters File (MPF) stored in the NPIC Data System (NDS) Data Base, (2) the MPF written to tape, and used as input for the 494 MPF maintenance CPC, and (3) the Temporary Prediction Data File (TPDF) to be used as input by the PREDICT11 CPC.

Console Messages:

MPFGEN REQUESTS A 7-TRACK TAPE FOR 494 MPF - Operator action self explanatory.

PLEASE UP A 7-TRACK DRIVE IF NONE ARE UP NOW - Operator action self explanatory.

494 TAPE HAS BEEN WRITTEN - No operator action required.

HAND-CARRY TAPE TO 494 ROOM - Operator action self explanatory.

MPFGEN NORMAL EXIT - No operator action required.

PREDICT11, FUNCTION AND PURPOSE:

The PREDICT11 task predicts target position in the PI reference

system [   ] updates the Prediction/Assignment/Status   STAT

Data (PAS) File of the NDS data base with target position and related

target header information on a pass-by-pass basis, sends predict lists

back to [   ] creates the "PRDFIL" File, and inputs to the ASSIGN11   25X1

task.

PREDICT11 runs under the Data Management Systems (DMS). Console

indications of normal execution, as well as error codes, can be found

in the operators reference manual for DMS.

PREDICT11 normal console indications are:

PREDICT11 Task Initiation

PREDICT11 Task Normal Termination

PREDICT11 sends <u>all</u> error messages to the 1110 printer and all CPAT

error messages and/or fatal error messages to the 9300 printer at the Site.

If Assign errors and cannot be completed -

RETASG can be run to get the areas Predict/Assign listing. Use as last

resort only.

ASSIGN11, FUNCTION AND PURPOSE:

The ASSIGN11 program assigns predicted targets (if they are to be exploited) and predicted images to PI's and sends back assign lists to

STAT

Preliminary Exploitation (PE) targets and images are assigned to on duty PI's with the required skill.

Current Exploitation (CE) targets and images to be exploited at the Exploitation Facility (E/F) are assigned to PI's in the proper component with the required skill.

There are Start and Finish messages on the console.

The ASSIGN11 program creates the "ASGFIL" File input to the CAMS and BINLOC task, as well as TGT-RCRD's for the CTF.

The PREDICT/ASSIGN listing produced by ASSIGN11 will be printed at both the 1110 printer and the 9300 printer at the Site.

ASSIGN11 normal console indications are:
"ASSIGN11 Execution Started"
"ASSIGN11 Normal Termination"

PROGRAM RETASG

PURPOSE: The purpose of this program is to recreate the PREDICT/

ASSIGN list.

PROGRAMMER: [   ] P/A Team   STAT

CAPABILITIES: 'RETASG' is capable of generating a PREDICT/ASSIGN list

for any IS and PASS. Optionally, a summary PREDICT/ASSIGN

listing of all IS and PASS's for a mission may be requested.

Two listings will be generated for each type. One will be

transmitted t[   ] and the other to the E/F. 'RETASG' STAT

does not update the data base.

USE: 'RETASG' solicits input from the system console. The inputs

are:

        (1)   IS # (i.e., "01")

        (2)   PASS # (i.e., "05")

        (3)   MISSION # 55YYDDD

                     where: 55 = Constant
                               YY = Year
                         DDD = Julian Date

An IS and PASS of zero (0) will indicate that a summary

listing for the whole mission is desired.

'RETASG' can be initiated from the system console with

the following input: ST POT*CONT.RETASG,,,DMS/DMS

CAMS

Function and Purpose

The CAMS Predict List Task is a batch program which sends a list of predicted targets to the COMIREX Automated Management System (CAMS) at CIA Headquarters.

The output from this program is a list of images and of predicted targets for each ⬚ pass, formatted for machine processing by the CAMS computer. A copy of the list is printed on the system printer in the printout of the XMS runstream.

25X1

There are Start and Finish messages on the console. If a Start message is produced but no Finish message and no error message appears and BINLOC starts, CAMS has determined that the predict list was previously generated and has exited.

A tape is produced containing a backup copy of the message. The program will output the message PLEASE MOUNT BACKUP TAPE. If no 9-track tape drive is in an UP state, the operator must UP one via a key-in before CAMS will proceed. Scratch tape and cards for the time being.

At the conclusion of CAMS execution, a message may be output:

NUMBER OF BAD COMIREX INDICES = NNNN

This indicates that one or more targets have badly structured COMIREX indexes. However, the CAMS program has executed properly unless other error messages appear. Do not restart the XMS runstream. No action need be taken unless the Data Base Administrator has requested that this problem be reported to him for analysis.

Note: Log all messages in Operations Log.

Note that CAMS sends output to DLTØØ2. When DATEX receives it, it will acknowledge it with a run started on the 1110 called DTXØ2. DTXØ2 will START and FIN with no error message. The SSN number and message reference number (needed for Recams) are displayed on the console at run time.

CAMS ERROR MESSAGES

CONSOLE MESSAGE	EXPLANATION	ACTION
Header Could Not Be Read	A DMS error occurred reading the CAMS header from the CHF in the Data Base	Call Data Base Rep.
Initialization Failed	1. DMS problems imparting or opening data base. 2. DMR or TIMER is probably down.	1. Restart DMR/TIMEI 2. If this does not correct the probl call Data Base Re
Error Assigning SSN or MN	1. Probable DMS error reading or updating FAL in Data Base. 2. Possible hardware problem.	Call Data Base Rep.
Image-Count Error	The number of images in the PAS file does not match the count generated by ASSIGN-11 -- Data Base may be invalid. However, a predict list was sent to CAMS.	1. Call Data Base Re 2. Do not restart XI runstream. 3. Call CAMS and wai them that Predici List may be bad.
Target-Count Error	The number of targets in the PAS file does not match the number stored by PREDICT-11 -- Data Base may be invalid. However, a predict list was sent to CAMS.	1. Call Data Base Ro 2. Do not restart XI runstream. 3. Call CAMS and wai them that Predici List may be bad.
Termination Routine Failed	A DMS error occurred in the termination of CAMS.	Call Data Base Rep.
Error Accessing PAS File	A DMS error occurred reading from the PAS file in the Data Base.	Call Data Base Rep.

BINLOC, FUNCTION AND PURPOSE :

The BIN Location and PI Assignment Task (BINLOC) is a TIP Off-Line Batch program initiated by an XMS Runstream. It will be executed on a pass-by-pass basis, throughout the imaging day, as soon as assignments for a given pass have been made to the "PAS" file by the [   ] Target 25X1 Prediction and Assignment Function.

This task will require target MRN and associated image and assignment data for all PI, CE, and active COMIREX targets. Note, the TGT-RCRD's must be in XPRI/MRN order. It will generate "WRK-PACK" records in the CONSERV-A-TRIEVE (CTF) file for the target folders to be retrieved.

.BINLOC will produce two printed reports of the target folders to be retrieved from the CONSERV-A-TRIEVE (CAT) on the 9300 printer at the E/F. The "Remote" subroutine will be used to send the two reports to the E/F printer. These reports will contain separate lists of the folders which are currently in and currently out of the CONSERV-A-TRIEVE Control. The reports will be used by the Intelligence Assistant to direct manual retrievals in the event of loss of computer support and will allow the Assistant to find and retrieve those folders already in the Exploitation Environment.

BINLOC will give no start instruction but will term with the message:

"NORMAL TERMINATION OF BINLOC"

followed by:

Rsspp*MSG: Runstream RUNXMSsspp normal and Rsspp FIN.

PROBLEMS   WITH   BINLOC :

Start the following run

XMS*K C-CAT. BIN-ERROR

This runstream will change the BINLOC absolutes to an old version which has always worked but does not update the data base. When run finishes (it should be pretty fast), restart the XMS Runstream (ESD etc.)

Error Procedures

1. "NO PAS INDEX FOR PAS PPYYDDD" or "NO INDEX RECORD FOR PAS PPYYDD."
   Check your input with the error message and make certain that the
   correct pass and date was input.
   Run the program again. If the input is correct and you receive the
   same results, there could be a data base problem. Save all the
   output and notify Data Base personnel.

2. "NO IMAGE-ID FOR PASS PPYYDDD".

3. "DMS ERROR TRYING TO FETCH TGT-LOC-STAT FOR THIS IMAGE-ID".

4. "NO TGT-LOC-STAT FOR THE FOLLOWING IMAGE-ID".

5. "NO TGT-ID FOR THE FOLLOWING IMAGE-ID AND TGT-LOC-STAT".

   Errors 2 through 5 are all data base problems and are printed
on the on-line printer. Save all output for Data Base personnel
to examine.

OPERATING PROCEDURES FOR "PARSONS"

1. Run after each ESD run is completed.

2. You will need a 7-track drive.

3. Start the program from the console.

    ST POT*CONT.RUNPASS11,,,DMS/DMS

4. Mount the tape per instructions.

5. Console message will appear next.

    "ENTER PASS/DATE FROM LAST ESD..."

    "ENTER PPYYDDD"

6. You will enter data as in the following example:

    EX. 0277111

7. The first two characters -02- are the Pass received via ESD. The third and fourth characters are the Year. The last three characters are the Julian Data during which the mission started. For example:

    When setting the Julian Date, schedule for the Julian Date will be one (1) more than the actual Julian Date of the first pass (01).

    The Julian Date will be the date when the mission ENDS rather than the date when the mission begins.

ITEMS [ ] STAT

OSG Duty

1. Each day at 10 p.m. and 7 a.m. make sure U-1110 is at MAX configuration if equipment is not down.

2. Keep abreast of Delta Problems (sign on yourself if necessary); try to get terminals up per your knowledge...keep count of "terminals out" twice/day and feed back to OC/OSG & coordinate [   ] 25X1

3. Keep abreast of Inforex printer status.

4. On Delta Problems try to cordinate your activities with [   ] Delta STAT Tech person on duty.

5. If you believe Delta repair man should be in [   ] to keep our Delta 25X1 reliability acceptable, contact [   ] and between you make the 25X1 decision.

6. Attempt to run PLOT.

7. Call into [   ] to CH/OSG each a.m. at around 0800 and give each situation STAT status---if CH not available, dictate to Secretary.

   a. Computer Configuration; 1x1, 2x1, etc.

   b. Terminal Status (multiterm); number of terminals down.

   c. Inforex Status; number of printers down.

   d. 9300 Status

[   ] 25X1

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OPS OFFICER CONFLICTS:

If you are having trouble with [____] ops officer, and a mutual   STAT
compromise cannot be achieved, do not argue - request him to call Mr.
[_____]home phone [_____]   STATAT

.:ABNORMAL POT PROBLEMS:

Executive software - Call [_____]   STAT
Other problems   - Call