19 August 1974

MEMORANDUM FOR:   All Participants in 29th ORACLE Management
Meeting

SUBJECT        :   Release 1 Cost and Schedule Considerations

STATINTL

1.  During the 29 August meeting, scheduled for 1000 in
2E23, with███████ I feel that OJCS should have an Office
position on how to implement the Release 1 ORACLE System.
Included in this memorandum are items that I feel should be
considered.

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2.  VM Implementation Schedule - Very little work on
the VM design has been accomplished during the past four or
five months.  Most all███████effort has gone into the batch
interface.  During my last visit to███████ they felt that the
earliest they could start VM implementation was March 75 with
current manpower.  I told them this was unsatisfactory.

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███████████ who did all of the design, is employed by ██████████
and is out in ████████████████until the Initial System is shipped.
He is doing the main implementation of the batch interface now
and ████████wants to wait until that is complete before they
start on VM.

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My position is that ████████can not add new people at this
time who will be able to get the VM interface accomplished
much faster, and there is no real requirement for the VM
interface in April.  If we have to decide, I think we should
allow ████████to start when they want and with whom they want
and insure us of the schedule impact.  If we force them to
speed up the VM interface now, it will just slip the batch
interface - there is a limited amount of work that can be
accomplished by a limited number of people.

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3.  Personnel -████████ is currently three under what
they think they should be and possibly four or five under
what they really should be.  They are interviewing many
people, but are much like SED in that they are not finding
the exact types they want.  The people they have are
excellent.  SED currently has ████████████████████working
almost full time on the project.  Most of the OS/MVT interface
is delivered.  The rest, mods to OPEN and CLOSE, will be
delivered in September.  It appears that ASP 3.1 is going to
slip enough so that we won't want to test it in November.

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This will mean that ████████ work will continue longer than STATINTL
expected, but probably not at the same intensity. ████████ STATINTL
and the VM interface will depend on the ████ schedules. If STATINTL
████ does not start the interface until March, it is probably STATINTL
unwise to have Eric continue his portion of the VM interface
until ████ starts up again. STATINTL

    4.  Hardware Schedules - ████ may feel that they can STATINTL
not get the hardware finished in time to ship in December.
The tape dubbing feature, (required for dispersal and tape to
tape copy) can not be tested until two data channels are
complete and this is in September sometime.  I have informed
████ that any further delays in the shipment schedule must STATINTL
result in a program slip, i.e., if shipment slips into late
January, the program slips into May.  I feel that the real
schedule problem is and always will be software, but ████ STATINTL
may not want to admit this.

    5.  Software Problems - ████ will claim that the current STATINTL
software in Release 1 is much larger than any of us ever
realized.  I think that it is not.  ████ might not have realized STATINTL
the size, but I think some of us did.  The current design does
not have anything that the proposal or RFP did not call for.  The
security profile system is somewhat more work than the original
proposal, but security was the number one item in the RFP.  The
original proposal called for the directory to be much like the
OS catalog, and we requested a change to a directory using a
hashing technique.  I do not believe that the amount of work
to implement either one is much different, but I am sure that
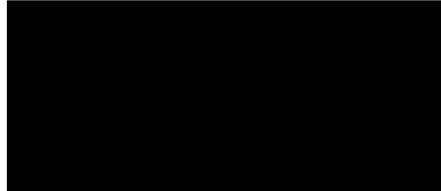████ feels there is more work involved. STATINTL

    I feel that we are developing a very large system and
as such there is a lot of work that has to be accomplished.  Most
of what we are doing is essential to install an operational
system, and is not very exotic.

    6.  Summary - OJCS needs to decide on the impact of a one
to two month slip in the program due to VM, or hardware slips
at the ████ end.  OJCS needs to make trade-offs involving STATINTL
personnel in SED between now and July 75.  OJCS needs to con-
vince itself that ████ is where they say they are and that they STATINTL
can get to where they say they are going.  The 29 August meeting
is the time to do that.  ████ responds much better to manage- STATINTL
ment than they do to members of the MSSB.  If ████ proposes STATINTL

any cost or schedule changes, OJCS management must satisfy
themselves that the changes are valid and what to do if
they are not.  Any suggestions for the meeting format or
content should be sent or phoned to me as soon as
possible.

STATINTL

Chief,
Mass Storage System Branch

Copy to:

DD/OJCS
C/PS/OJCS
C/SED/OJCS
DC/SED/OJCS
EO/SED/OJCS
C/SP&MS/SED/OJCS
███████/USD          STATINTL
C/OD/OJCS
████    D/OJCS
████    /SED/OJCS    STATINTL
████    ED/OJCS
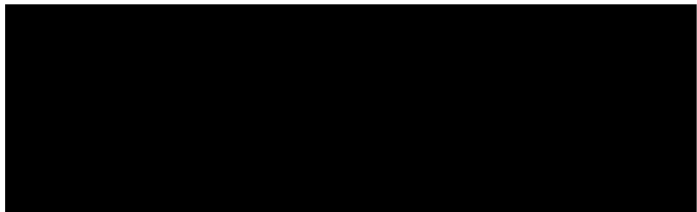ORACLE Notebook

**Next 1 Page(s) In Document Exempt**

TMS 2

NINTH TECHNICAL PROGRESS REPORT

August 15, 1974

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TMS 2

TECHNICAL PROGRESS REPORT

FOR

Director, OJCS

Central Intelligence Agency
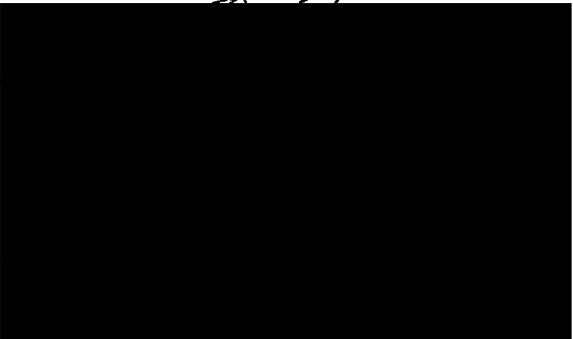Washington, D.C. 20505

August 15, 1974

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Prepared by:

Approved by:

I.    INTRODUCTICN/SUMMARY

        This is the TMS 2 Monthly Technical Progress Report for
July 1974.

        Four (4) customer review meetings were held at ▆▆▆ in          STATINTL
July, as follows:

    1)  Completion of Annual Review carryover from June 29
        through July 5, 1974.  Major events and action items
        of the review are discussed further in Section II
        below and Attachment 1 respectively.

STATINTL
    2)  ▆▆▆▆▆▆▆ Deputy Chief OJCS for a TMS 2 Project
        Review, July 10, 1974.

    3)  Installation/Facilities Conference TMS 2, Room 1D1605,
        Air Compressor and Vacuum Blower System, July 25, 1974.

    4)  System Specification, Pre-Shipment Acceptance Test
        Document and Open Contract Changes Review, July 30
        through August 6, 1974.

        The installation of the prototype TMS System at ▆▆▆▆▆          STATINTL
Corporate Computer Center has been rescheduled from the week of
August 5th to the week of August 26th, based on:

STATINTL
    1)  Best current information on completion of facilities
        preparation in ▆▆▆▆▆▆, and

    2)  Hardware and software integration of the first half of
        the TMS 2 Initial System at ▆▆▆▆▆▆▆▆          STATINTL


II.   SOFTWARE

STATINTL        The annual review was held June 29th through July 3rd at
the ▆▆▆▆▆▆ facility.  The status of the software development
was presented and the Release 1 software requirements were discussed
with the Agency representatives.  It was agreed among all parties that
a TMS 2 System Specification in addition to a Release 1 Software
Specification was needed.  The content of the System Specification
was agreed upon during the meeting and work was started on a draft of
the System Specification during July for review with Agency repre-
sentatives during the last week in July.

        Since the annual review, JOBEXEC, DMS, and SCPOS have been
integrated and are ready for the August 5th integration with SCP2.
SCP2 (DFT) and EDCP have encountered some problems and are behind
schedule for the August 5th integration.

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TDIO, TDIF, DFT, JOBEXEC, DMS, SCPOS Coding Conventions, SAVREQ, RESREQ, ENQ/DEQ, EDV, Core Management, WDP, WTD/WTDR, SCPOS Error Processing and Dumps, I/O and EDIF Handlers, and IPL design have been documented and edited and are in for typing. JOBEXEC, DMS, and SCPOS Error Processing and Dumps documentation will be distributed next month.

III. HARDWARE

Hardware completion and development progress for the Initial System is as follows:

A. DSS

1) First Half

Stand-alone and integrated checkout of the Dual Transport Module, Transport Driver and Data Channel are complete except for the Data Interface Buffer of the Data Channel which is scheduled for early August completion. Subassembly shortages are down to about 10 items which are not expected to impact checkout activities.

2) Second Half

TMS Department checkout of Dual Transport Module #2 and Transport Driver #2 are approximately 50% and 60% complete respectively. Final assembly of Data Channel #2 is in process in Manufacturing. The equipment was delayed due to a shortage of several PC cards and in process manufacturing rework to correct errors discovered by TMS Dept. in checkout of Data Channel #1. Completion and delivery of the Data Channel #2 TMS is scheduled for mid-August 1974 with no impact on final delivery schedule.

B. CCS

1) First Half

a) EDCP - DEC equipment, less the DA11B interface units and the TCIF has been checked out complete with an interim configuration CHSIM. Completion of the deliverable TCIF has been delayed for numerous backplane wiring errors which are currently being debugged. This is the pacing item in completion of the first half of the Initial System which is targeted for completion prior to the prototype equipment move to █████████

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    b) SCP - DEC equipment, less the DA11B interface units, prototype $^T$DIF (less display panel) and interim configuration channel simulator are checked out complete. The TDIF LED manual control panel design has been completed and will be backfitted in completed units.

  2) Second Half

    a) EDCP - TCIF wire wrap cards in rework scheduled for completion and testing in September. A final configuration CHSIM for this unit is scheduled for delivery to ▊▊▊▊ during the week of August 26th.

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    b) SCP - TDIF cards are built and checked out and fitting with display panel is under way. CHSIM for this equipment is scheduled for early September.

## IV.  MANUFACTURING - Second Increment Hardware and Initial System Spares

Purchase Orders have been placed for approximately 90% of the required hardware. Balance of orders are in process. Of the four (4) long lead items previously discussed as returned for engineering review, one (1) has been redesigned and released for procurement. The remaining three (3) items are in process of redesign to specify an item with better delivery.

## V.  SCHEDULES

Based on the discussion in Item III above, it is apparent that progress on the first half of the Initial System is well along and should be functionally complete by mid-August. This will enable hardware and software development to continue in ▊▊▊▊▊▊ when the Prototype System is installed in the ▊▊▊▊ during the week of August 26th.

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## VI.  PROBLEMS

Based on preliminary information, it appears that the dual density 3330 disk units to be used by the Agency could have a TMS 2 program impact.  The technique for achieving dual density implemented by Control Data appears to be based on two logical disks per physical disk.  The technique for achieving dual density in the Control Data disks is not compatible with ▮▮▮▮▮ original STATINTL understandings and cannot be supported without additional development.

## VII.  ACTION ITEMS

Action items change sheets are attached.

ACTION ITEMS

INDEX

| NO. | ITEM TITLE | DATE CLOSED |
|---|---|---|
| 1 | Host Messages Format and List | 2/25/74 |
| 2 | Design Considerations Affecting User | 4/8/74 |
| 3 | Action Item Notebook | 5/1/74 |
| 4 | Dummy Data Set Names | 7/4/74 |
| 5 | Recovery Problem List | 5/1/74 |
| 6 | Review of Design Problems and Requirements | 5/16/74 |
| 7 | List of MIS Requirements | 7/4/74 |
| 8 | Software Documentation Plan | 5/16/74 |
| 9 | Time Plan for Major Software Specifications and Requirements | 5/16/74 |
| 10 | Save/No-Save with Respect to Scratching P-Spaces | 8/7/74 |
| 11 | Work Management Error Transmission to Virtual Machines | 8/7/74 |
| 12 | Hot-file Backup | 5/16/74 |
| 13 | SCP Crash Message Traffic and CP Poll for Backup | 3/5/74 |
| 14 | Startup Parameter and Default Guidelines | 7/4/74 |
| 15 | I/O Operation Timeout | 3/5/74 |
| 16 | Addressability Plan for Application Program Larger than 32K | 5/16/74 |
| 17 | System Overload Plan | 7/4/74 |
| 18 | Action Item List | 5/16/74 |
| 19 | Read-Share and Write-Share Allocation | 8/7/74 |
| 20 | Read-Share vs Write-Share Definition | 8/7/74 |
| 21 | Timing for Dependent Jobs Generating New Data Sets | 5/16/74 |
| 22 | Restriction on Absolute Referencing of Generations within New Generation Data Groups | 5/16/74 |
| 23 | Data Set Availability after Job Bind but before Job Start | |
| 24 | ORACLE Allocation Control of New Large Files | 7/4/74 |
| 25 | Rename Large Files and Small Files | |
| 26 | UNIT=ORACLE, DISP=(NEW,DELETE,DELETE) | 6/6/74 |
| 27 | JOBEXEC Input Validation Prior to Setup Message | 3/5/74 |
| 28 | New Data Set Job Abort | 7/4/74 |
| 29 | Utility Program Definitions | 5/16/74 |
| 30 | Job Startup Message for OS/ASP Executions | 3/5/74 |
| 31 | DMS | 5/16/74 |
| 32 | RBA Function | 5/16/74 |
| 33 | Data Set, File, Subfile Organization | 5/16/74 |
| 34 | Government Requirements for DMS | 5/16/74 |
| 35 | ASCEND and DESCEND Break-in to Support CP Performance | 7/4/74 |
| 36 | Expiration Dates on Data Sets | 7/4/74 |
| 37 | Government Requirements for File Management Utilities | 5/16/74 |
| 38 | EDCP IPL | 3/5/74 |
| 39 | EDCP Dump | 5/16/74 |
| 40 | Objectives for DMS, MIS, Recovery, Security, File Management | |
| 41 | Security-Related Default Non-Sensitive Group | 5/17/74 |
| 42 | Changing of Security Profiles | 5/17/74 |
| 43 | ASP Operator | |
| 44 | Archiving Facility in Release 1 | 7/4/74 |
| 45 | Recovery from Broken Tape | |

ACTION ITEMS (Cont'd)

| NO. | ITEM TITLE | DATE CLOSED |
|-----|-----------|-------------|
| 46 | Storing DSDB on TBMTAPE | 7/3/74 |
| 47 | Erase Errors - LOGTAPE | 5/17/74 |
| 48 | LOGTAPE Dispersal | |
| 49 | Utility for Renaming Datasets | 7/3/74 |
| 50 | CP Backup Procedure•re P-Space | |
| 51 | Read-only Option for Security Profile Parameters | |
| 52 | Graceful Failure | 5/17/74 |
| 53 | Hardware for Backup | |
| 54 | Backup - Disk Allocation Tables | |
| 55 | Verifying MFD Validity | |
| 56 | I/O on Private Packs | |
| 57 | CHECKSUM on TTY Communication Link | |
| 58 | VM Schedules | |
| 59 | MIS Contents | |
| 60 | Performance Monitoring | |
| 61 | Data Set Activity Requirements | |
| 62 | Hashing Algorithms | |
| 63 | GDG Support | |
| 64 | Expanded Hardware Complex | |
| 65 | Tally | |
| 66 | GDG's | |
| 67 | LOGTAPE Performance | |

ACTION ITEM TITLE:    VM Schedules

Initiated by:         Solve at Yearly Review Mtg

Date Initiated:       6/29-7/3/74

NO. 58    Brief Description:   Government requires VM Schedules.


STATINTL

Responsibility:   ████████ - by Sept. 1, 1974



Action Taken:

        Date _____

        By   _____

        Description of:



        Resolution:

ACTION ITEM TITLE: MIS Contents

Initiated By:     Attendees at Yearly Nov 28 Meeting

Date Initiated:     6/29-7/3/74

NO. _59_ Brief Description:    STATINTL ▓▓▓▓ and Government should agree on

MIS contents by July 19th.

STATINTL

Responsibility:    ▓▓▓▓ and Govt. - 19 July 74

Action Taken:

     Date _____

     By _____

     Description of:

     Resolution:

ACTION ITEM TITLE    Performance Monitoring

Initiated by:          Govt at Yearly Review Mtg
Date Initiated:        6/29-7/3/74

NO. 60    Brief Description:   Can a Delta Data Terminal be used as

          an output only display for performance monitoring?



                    "STATINTL
Responsibility: ▮▮▮▮▮▮ - Sept 1, 1974



Action Taken:

        Date _____

        By  _____

        Description of:



        Resolution:

ACTION ITEM TITLE:   Data Set Activity Requirements

Date Initiated:      6/29-7/3/74
_____

NO. _61_  Brief Description:  Supply list of Data Set Activity

STATINTL

requirements to ███████ (Govt) by 31 August 1974.


STATINTL

Responsibility: ██████ by 31 Aug 74


Action Taken:

    Date _____

    By   _____

    Description of:


    Resolution:

ACTION ITEM TITLE    Hashing Algorithms
Initiated by:        Govt at Yearly Review Mtg
Date Initiated:      6/29-7/3/74

NO. 62    Brief Description:    Furnish hashing algorithms to D.
          STATINTL
          ███████Govt), by 31 Aug 74.  He will evaluate and

    report distribution.


                    STATINTL
Responsibility:     ██████ - by 31 Aug 74



Action Taken:

    Date _____

    By   _____

    Description of:



    Resolution:


ACTION ITEM TITLE    Hashing Algorithms

ACTION ITEM TITL͏ GDG Support
Initiated by: Govt at Yearly Review Mtg
Date Initiated: 6/29--7/3/74

NO. 63 Brief Description: Define Generation Data Group Support

Limitations.

STATINTL
Responsibility: ■■■■ - As soon as possible

Action Taken:

Date _____

By _____

Description of:

Resolution:

ACTION ITEM TITL⌐  Expanded Hardware Compl x

Initiated by:         Govt at Yearly Review Mtg
Date Initiated:       6/29-7/3/74

NO._64_  Brief Description:   More input lines to System.

Govt wants larger hardware complex and would like to

know the cost of supporting it on TMS2.

STATINTL
Responsibility:      ███████ - by 1 Sept 74

Action Taken:

    Date _____

    By   _____

    Description of:

    Resolution:

ACTION ITEM TITLE     Tally

Initiated by:          Govt at Yearly Review Mtg
Date Initiated:        6/29-7/3/74

NO. 65    Brief Description:   Whither Tally? --

                                    -   What are contents?

                                    -   Under tape dubbing


                          STATINTL
Responsibility:           ██████ by 1 Sept 74


Action Taken:

        Date _____

        By   _____

        Description of:



        Resolution:

ACTION ITEM TITLE:    GDG's

Initiated by:         Attendees at Yearly Review Mtg
Date Initiated:       6/29-7/3/74

NO. 56    Brief Description:   Must be able to create GDG's from

    host.


    . STATINTL

Responsibility:    ███████  - As soon as possible



Action Taken:

    Date _____

    By  _____

    Description of:



    Resolution:

ACTION ITEM TITLE:   LOGTAPE Performance

Initiated By:          Attendees at Yearly Review Mtg.
Date Initiated:        6/29-7/3/74

NO. 67   Brief Description:   What are the performance considera-

   tions of LOGTAPE?


Responsibility:        STATINTL
                       ███████ - by 1 Sept 74


Action Taken:

   Date _____

   By   _____

   Description of:



   Resolution: