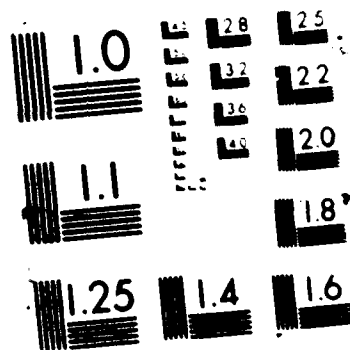


143

1

A 10x10 grid of squares. The top-left square is missing, creating a staircase effect on the left side. The grid consists of 10 rows and 10 columns. The first row has 9 squares, the second row has 10 squares, and so on, up to the tenth row which has 10 squares.



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APPENDIX A, Part I

Development of Milestone Schedules for Selected Logistics Support Directorate Programs. (U)

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Data Base Development

19 ABSTRACT (Continue on reverse if necessary and identify by block number)

The Logistics Support Directorate is responsible for numerous developmental programs requiring comprehensive milestone schedules to guide programs through the Army's extensive materiel acquisition cycle. Schedules are developed using micro-computers to assist Project Engineers with the management of key activities. The objective of this effort was to develop milestone schedules for selected developmental programs. Examples were generated for use by Project Engineers when they develop future milestone schedules. The document also includes examples of a data request form to extract data from Project Engineers and a user's manual for data base management.

Acquisition Management, Data Base Development

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DEVELOPMENT OF MILESTONE SCHEDULES
FOR
SELECTED LOGISTICS SUPPORT DIRECTORATE PROGRAMS

APPENDIX A, PART I
HTPM TEMPLATES



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DEVELOPMENT OF MILESTONE SCHEDULES
FOR
SELECTED LOGISTICS SUPPORT DIRECTORATE PROGRAMS

APPENDIX A, PART I
HTPM TEMPLATES

15 SEPTEMBER 1987

BRUCE B. HALSTEAD
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THOMAS J. FIDD
KURT A. KLADIVKO
JERRI Y. GIST

DTIC
ELECTE
S OCT 07 1987 **D**
D

Prepared for:
US Army
Belvoir Research, Development and Engineering Center

Under
Contract Number DAAK70-84-D-0053
Task Order 0033

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APPENDIX A HTPM TEMPLATES

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HARVARD TOTAL MANAGER PROGRAM TEMPLATES

ORGANIZATION OF DATA

1. This Appendix contains four versions of HTPM templates designed to be fit to on-going and future Logistics Support Directorate acquisition programs to enhance management efforts.

a. Two versions were provided by the Study Sponsor as a result of previous work. The first two versions contained in this Appendix are those versions, updated to accommodate the latest changes in Army acquisition procedures contained in pertinent regulations and directives. They are:

- Research and Development (R&D)
- Nondevelopment Item (NDI)

b. Two additional versions, developed during the conduct of this analysis, are also included.

- Army Streamlined Acquisition Process (ASAP)
- Product Improvement Program (PIP)

c. Each version is subdivided into phases:

- R&D
 - Concept Exploration (CE)
 - Demonstration and Validation (DV)
 - Full Scale Development (FS)
 - Production and Deployment (PD)
- NDI
 - NDI1 (similar to CE above)
 - NDI2 (similar to DV and FS above)
 - NDI3 (similar to PD above)
- ASAP
 - ASAP1 (Technology Base Activities)
 - ASAP2 (Proof of Principle)
 - ASAP3 (Development/Production Prove Out)
 - ASAP4 (Production and Deployment)
- PIP
 - PIP1 (Phases are similar to ASAP Phases above)
 - PIP2
 - PIP3
 - PIP4

d. This Appendix contains a roadmap for each main program associated with a phase and roadmaps for each subprogram associated with each main program. A roadmap consists of milestones, tasks and subprograms.

- Milestones are depicted by boxes. Milestones with names beginning with "D" (D8040) are "Dummy" milestones required when two or more tasks lead into one task or when one task branches into two or more tasks.

- The critical path is denoted by double lines.

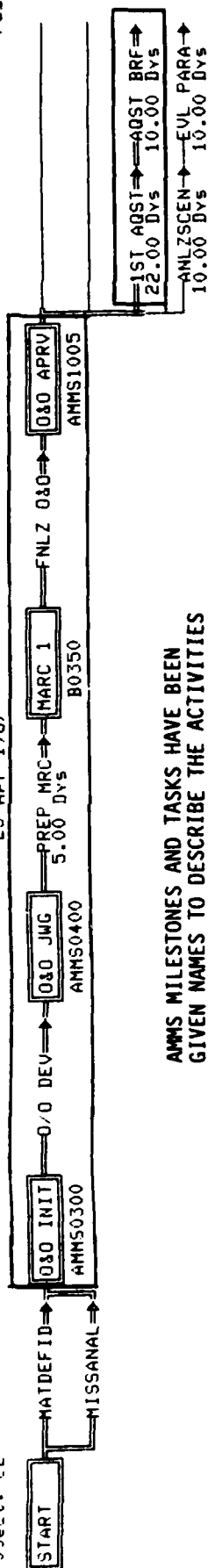
- Tasks are named on the activity line. Tasks with names beginning with "CONT" (CONT. 02) or "D" followed by a number (D0160) are dummy tasks required when there are two or more milestones in sequence.

- Subprograms appear similar to tasks. They can be differentiated from tasks because their names begin with an asterisk, "*". For example, "*CEAP" would be a subprogram of the CE main program. However, if the subprogram name is eight characters long, the first two characters will be replaced by the "*". For example, "N1LSARAM", a subprogram of ND11 would be represented in the ND11 main program as "*LSARAM".

2. The templates (or roadmaps) are followed by an alphabetically sorted task and milestone list, summarizing the tasks contained in the templates. Summaries include the task or milestone name, the schedule to which it belongs, AMMS or BELVOIR code numbers as appropriate, responsibilities for task accomplishment, event duration times, and task descriptions.

CONCEPT EXPLORATION PHASE
RESEARCH AND DEVELOPMENT TEMPLATE

CONCEPT EXPLORATION PHASE OF THE LIFE CYCLE MANAGEMENT MODEL



AMMS MILESTONES AND TASKS HAVE BEEN GIVEN NAMES TO DESCRIBE THE ACTIVITIES BEING UNDERTAKEN DURING THIS PERIOD.

THE ACQUISITION STRATEGY IS THE HEART OF PROGRAM PLANNING AND SETS THE BASIC COURSE OF ACTION TO BE FOLLOWED. (AR 70-1)

THE TASKS ADDED ARE PROVIDED AS PERTINENT TO THE ACCOMPLISHMENT OF THE AMMS MILESTONES AS DESCRIBED IN DA PAM 700-XX. DURATION TIMES ARE BASED UPON ESTIMATED LEVELS OF EFFORT AND EXTRAPOLATION FROM SIMILAR TASKS PREVIOUSLY BUILT INTO THE SCHEDULE.

MILESTONES WHICH HAVE NAMES BEGINNING WITH "D", SUCH AS "D8040", ARE "DUMMY" MILESTONES. HTPM REQUIRES THESE NODES IN CASES WHERE TWO OR MORE TASKS LEAD INTO ONE TASK OR WHERE ONE TASK BRANCHES INTO TWO OR MORE TASKS.

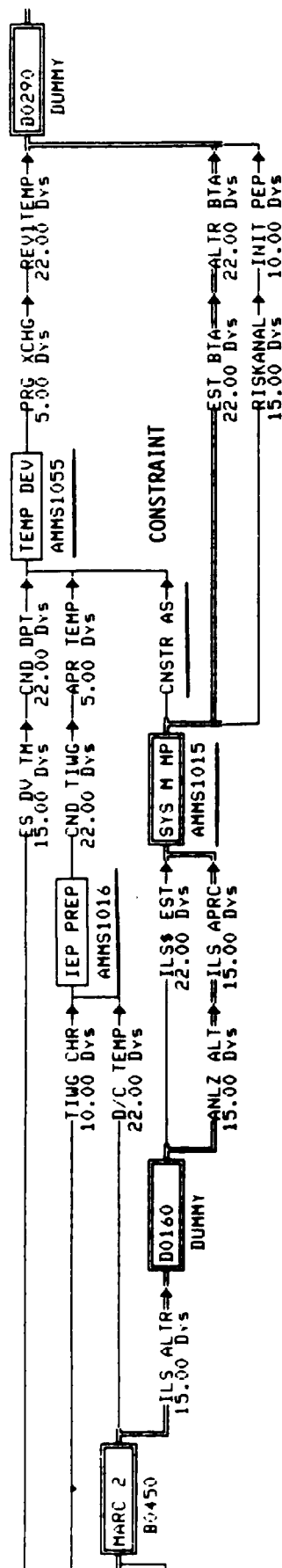
TASKS WHICH HAVE NAMES BEGINNING WITH "CONT", SUCH AS "CONT. 02", ARE "DUMMY" TASKS. HTPM REQUIRES THESE NODES IN CASES WHERE THERE ARE TWO MILESTONES IN SEQUENCE.

CONCEPT EXPLORATION PHASE OF THE LIFE CYCLE MANAGEMENT MODEL

Project: CE

23-Apr-1987

Page 2

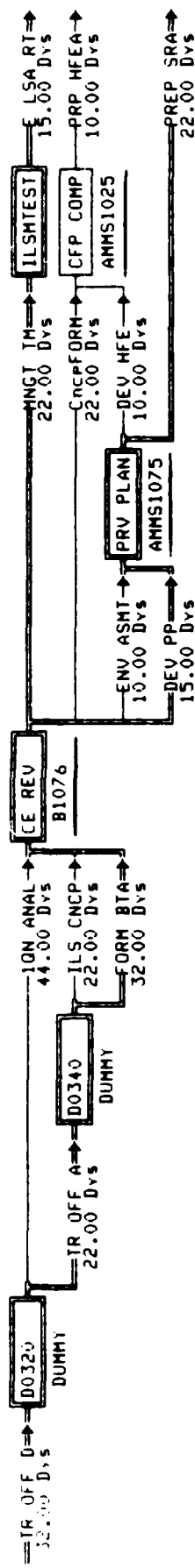


CONCEPT EXPLORATION PHASE OF THE LIFE CYCLE MANAGEMENT MODEL

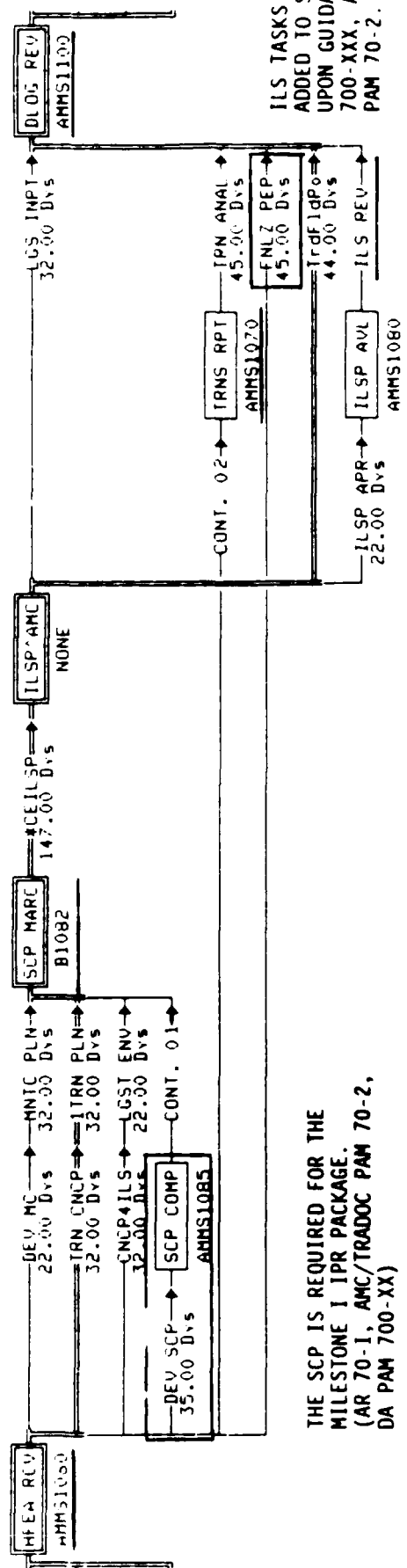
23-Apr-1987

Page 3

Project: CE



THE TASK ADDED IS PERTINENT
TO THE ACCOMPLISHMENT OF THE
AMMS MILESTONE.

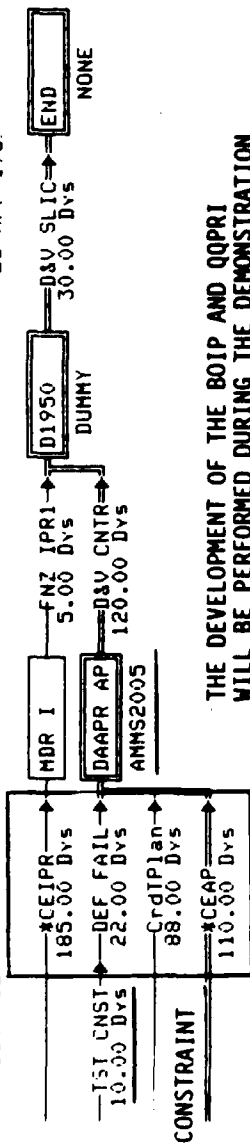


THE SCP IS REQUIRED FOR THE
MILESTONE 1 IPR PACKAGE.
(AR 70-1, AMC/TRADOC PAM 70-2,
DA PAM 700-XX)

TASK AND MILESTONES ADDED
TO SCHEDULE TO ACCOMPLISH
PROGRAM MANAGEMENT PLANNING.
(AR 70-1, AR 71-9, AMC/TRADOC
PAM 70-2, AND DA PAM 700-XXX)

THE LOA HAS BEEN SUSPENDED. THE ROC IS THE FORMAL REQUIREMENT DOCUMENT. THE ROC IS NOT NORMALLY APPROVED UNTIL PROOF OF PRINCIPLE HAS BEEN CONDUCTED UNDER AN APPROVED O & O PLAN. (AR 71-9, AMC/TRADOC PAM 70-2)

Project: CE



23-Apr-1987

CONCEPT EXPLORATION PHASE OF THE LIFE CYCLE MANAGEMENT MODEL

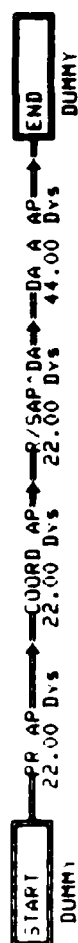
THE DEVELOPMENT OF THE BOIP AND QOPRI
WILL BE PERFORMED DURING THE DEMONSTRATION
AND VALIDATION PHASE CONCURRENT WITH THE
ROC APPROVAL PROCESS. (AR 71-9, AR 71-2,
AMC/TRADOC PAM 70-2, AND DA PAM 700-XXX)

CONCEPT EXPLORATION PHASE OF THE LIFE CYCLE MANAGEMENT MODEL

Project: CEAP

23-Apr-1987

Page 1

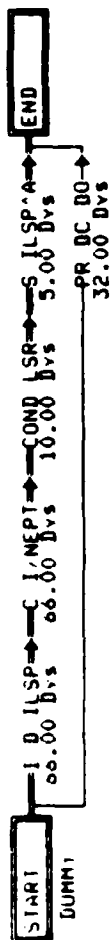


CONCEPT EXPLORATION PHASE OF THE LIFE CYCLE MANAGEMENT MODEL

PROJECT: CELLSP

23-Apr-1987

Page 1



CONCEPT EXPLORATION PHASE OF THE LIFE CYCLE MANAGEMENT MODEL

Project: CEIPR

23-Apr-1987

Page 1



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

CONCEPT EXPLORATION PHASE OF THE LIFE CYCLE MANAGEMENT MODEL

23-Apr-1987

Project: CEIPR

END

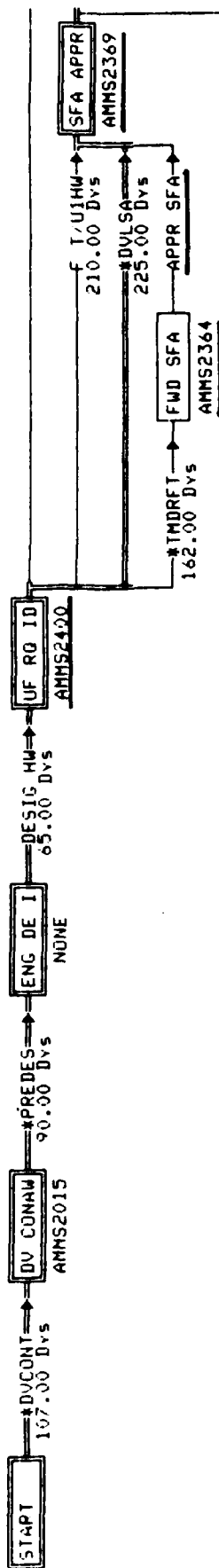
DEMONSTRATION AND VALIDATION PHASE
RESEARCH AND DEVELOPMENT TEMPLATE

Project: DV

DEMONSTRATION AND VALIDATION PHASE

22-Apr-1987

Page 1

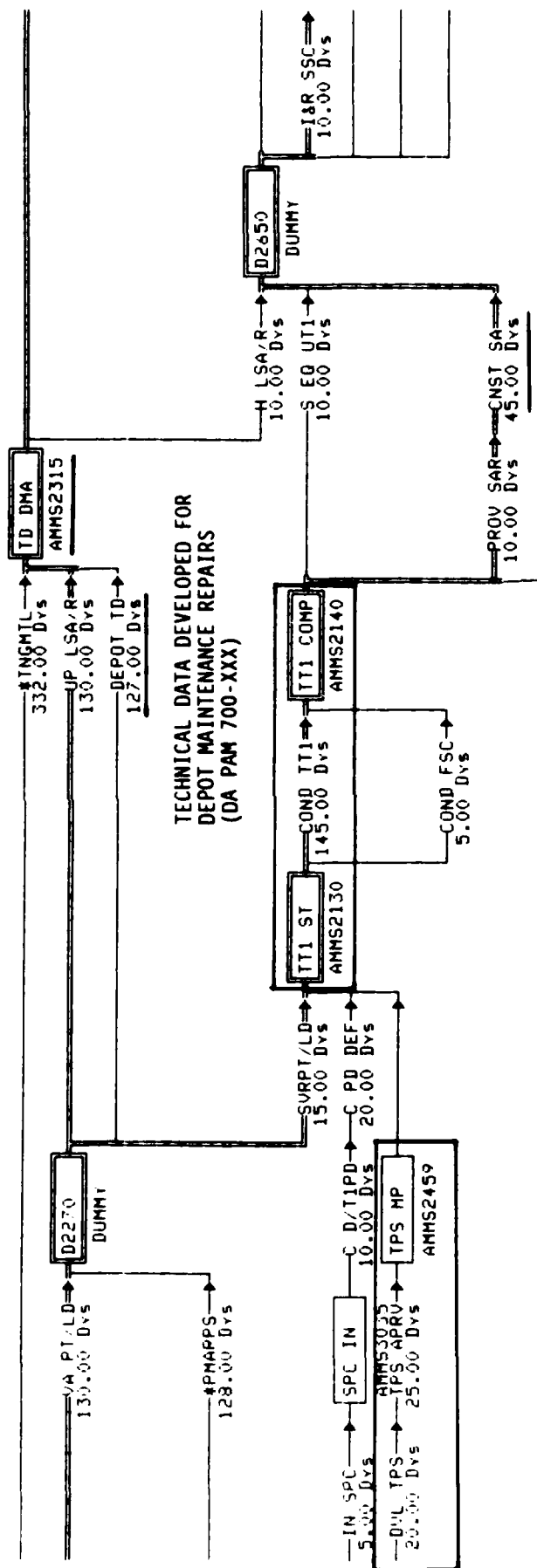


THESE ARE MILESTONES REQUIRED BY AMMS FOR THE SFA AND A TASK TO SHOW HOW TO ACCOMPLISH THE MILESTONE.

MILESTONES WHICH HAVE NAMES BEGINNING WITH "D", SUCH AS "D8040", ARE "DUMMY" MILESTONES. HTPM REQUIRES THESE NODES IN CASES WHERE TWO OR MORE TASKS LEAD INTO ONE TASK OR WHERE ONE TASK BRANCHES INTO TWO OR MORE TASKS.

TASKS WHICH HAVE NAMES BEGINNING WITH "CONT", SUCH AS "CONT. 02", ARE "DUMMY" TASKS. HTPM REQUIRES THESE NODES IN CASES WHERE THERE ARE TWO MILESTONES IN SEQUENCE.

THE TASKS ADDED ARE PROVIDED AS PERTINENT TO THE ACCOMPLISHMENT OF THE AMMS MILESTONES AS DESCRIBED IN DA PAM 700-XX. DURATION TIMES ARE BASED UPON ESTIMATED LEVELS OF EFFORT AND EXTRAPOLATION FROM SIMILAR TASKS PREVIOUSLY BUILT INTO THE SCHEDULE.



TPS MANAGEMENT PLAN FROM THE AMMS
REGULATION AND THE TASKS NECESSARY
FOR ACCOMPLISHMENT

DA PAM 700-XXX CHANGES DEVELOPMENTAL
TESTS (DTs) TO TECHNICAL TESTS (TTs).

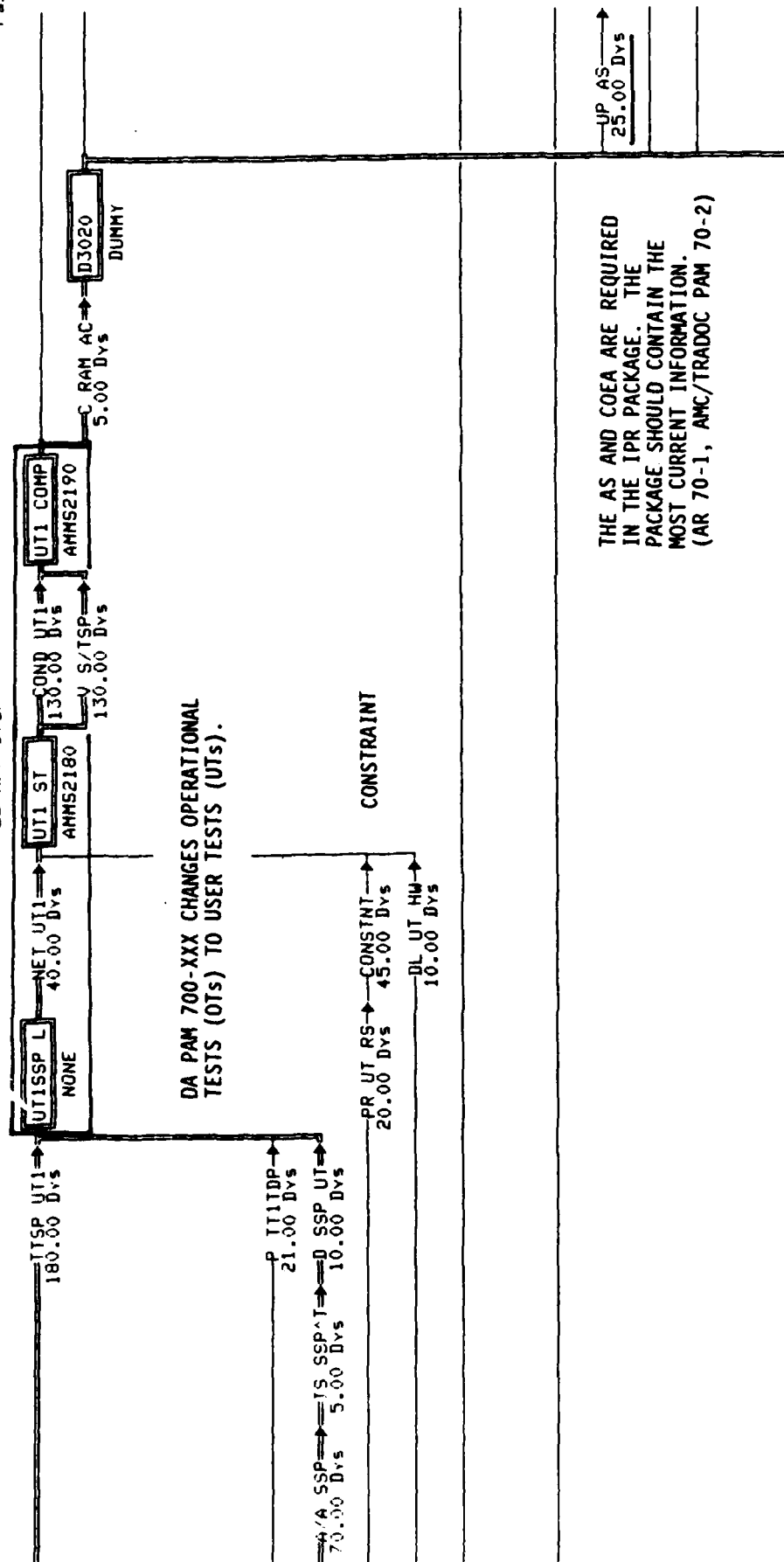
CONSTRAINT

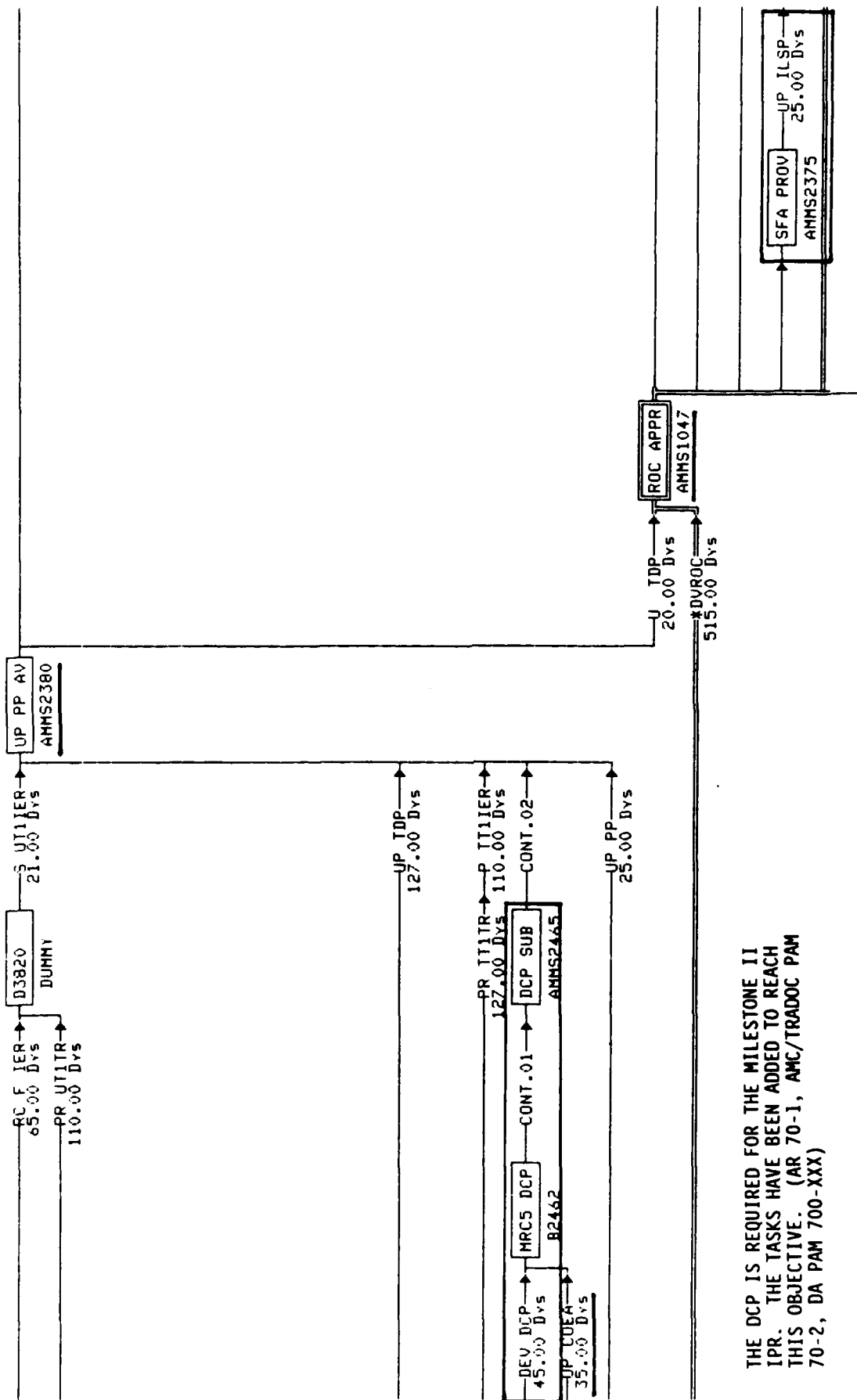
Project: DV

22-APR-1987

Page 3

DEMONSTRATION AND VALIDATION PHASE





THE DCP IS REQUIRED FOR THE MILESTONE II IPR. THE TASKS HAVE BEEN ADDED TO REACH THIS OBJECTIVE. (AR 70-1, AMC/TRADOC PAM 70-2, DA PAM 700-XXX)

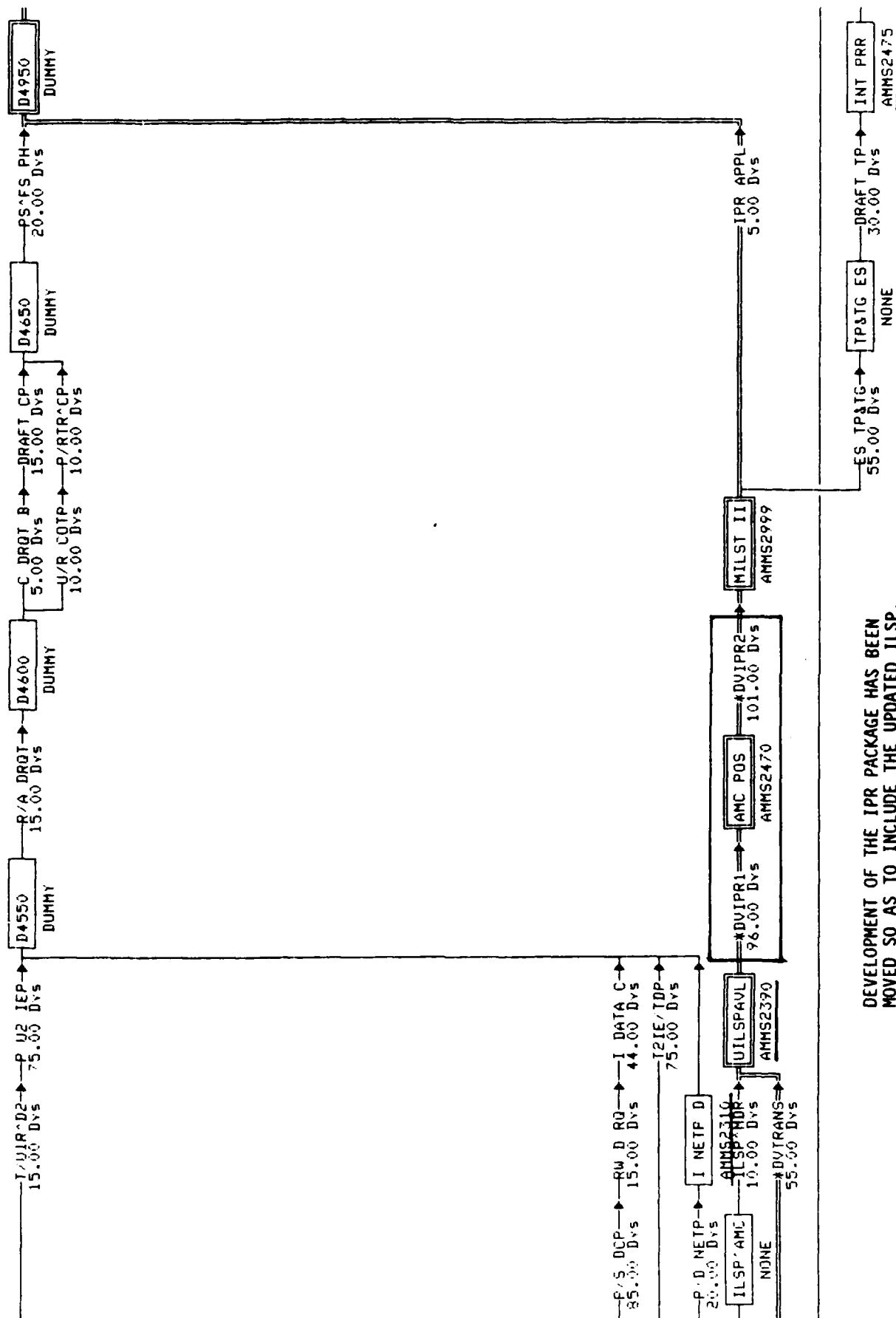
UPDATE THE ILSP TO INCLUDE THE SFA AND THE PROVISIONING PLAN. (DA PAM 700-XXX)

Project: DU

22-Apr-1987

DEMONSTRATION AND VALIDATION PHASE

Page 5



DEVELOPMENT OF THE IPR PACKAGE HAS BEEN
MOVED SO AS TO INCLUDE THE UPDATED ILSP.

DEMONSTRATION AND VALIDATION PHASE
22-Apr-1987

Project: DU

1.1.50L
20.00 DYS

END

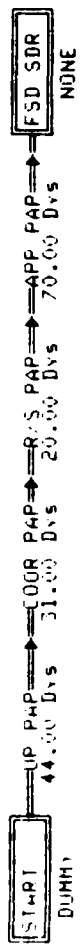
NONE

0.04P
165.00 DYS
CONT.03

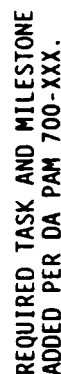
DEMONSTRATION AND VALIDATION PHASE

22-Apr-1987

Project: DMWP



22-Apr-1987



A-21

Project: DV801P

HQDA B/O 45.00 DYS
B/O APPR
AMMS2250

DESIGN 20.00 DYS

DATA CON 15.00 DYS

REQUIRED HEADQUARTERS DA
APPROVAL ADDED PER AMC/TRADOC
PAM 70-2, DA PAM 700-XXX.

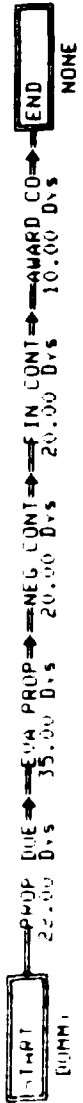
DEMONSTRATION AND VALIDATION PHASE

22-APR-1987

DEMONSTRATION AND VALIDATION PHASE

22-Apr-1987

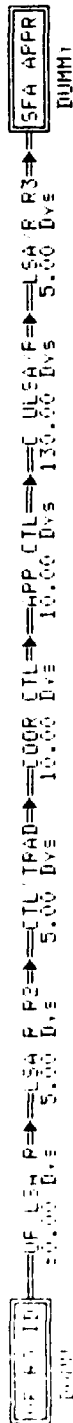
START DATE: D:CONT

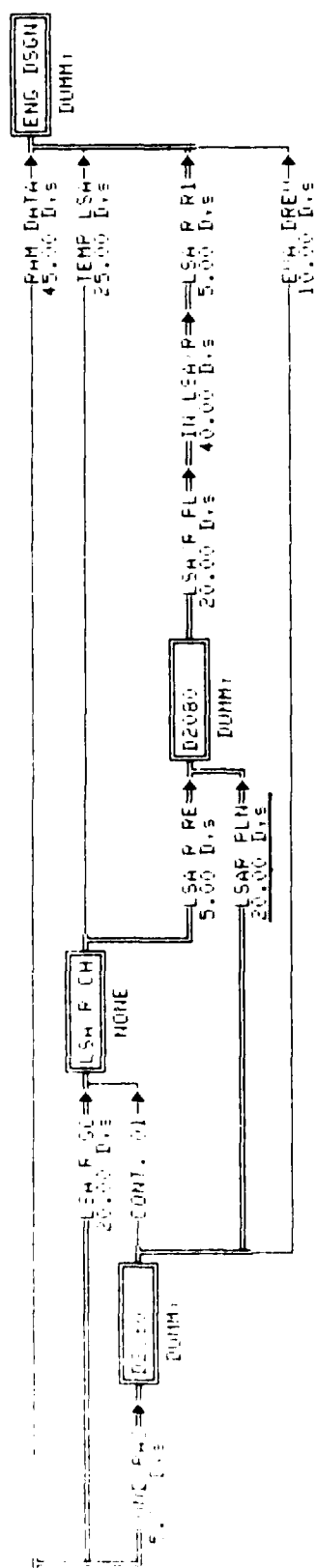


Page 1

DEMONSTRATION AND VALIDATION PHASE

23-APR-1997

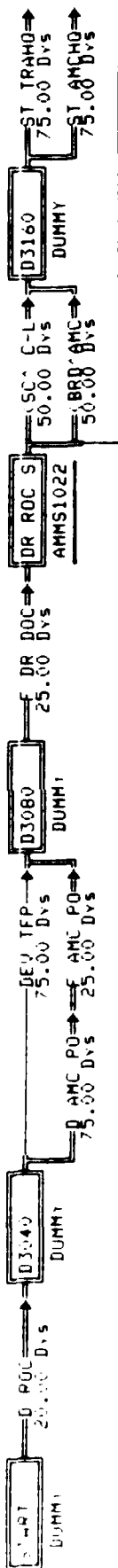




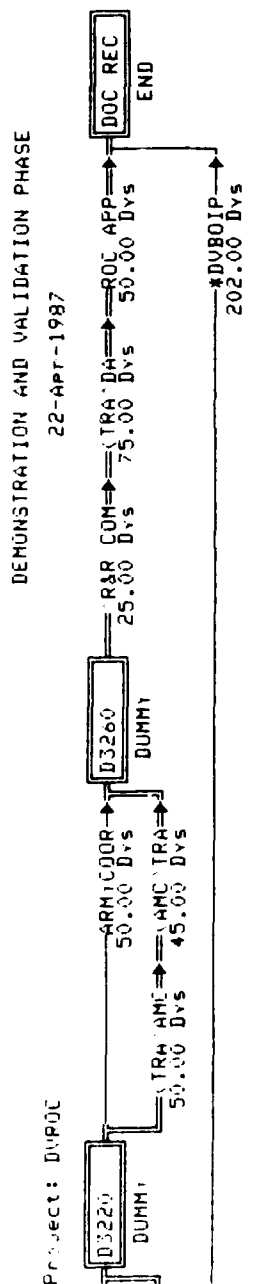
DEMONSTRATION AND VALIDATION PHASE

22-APR-1987

4-1-87 00:00



THE ROC WILL NOT NORMALLY BE APPROVED
UNTIL PROOF OF PRINCIPLE (DEMONSTRATION
AND VALIDATION) HAS BEEN CONDUCTED
UNDER AN APPROVED O & O PLAN. (AR 71-9)



THE DEVELOPMENT OF A DRAFT REQUIREMENT DOCUMENT (i.e. ROC) INITIATES THE ASSIGNMENT OF A Z-LIN AND DEVELOPMENT OF THE TBOIPFD AND TQPRI. (AR 71-2)

THE TIMELINESS OBJECTIVE REQUIRES THAT THE BOIP AND THE ROC BE APPROVED AT THE SAME TIME. (AR 71-9)

DEMONSTRATION AND VALIDATION PHASE

23-MAR-1987

Page 1

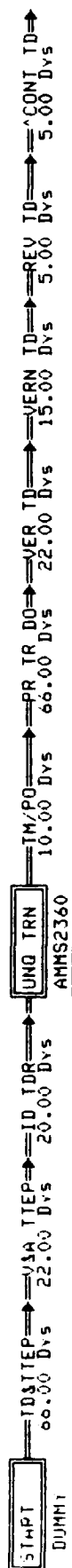
Project DUMDEFT



DEMONSTRATION AND VALIDATION PHASE

22-Apr-1987

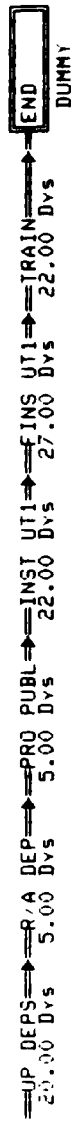
Project: DVTNGMTL



DEMONSTRATION AND VALIDATION PHASE

22-Apr-1987

Project: DIVINGMTL



DEMONSTRATION AND VALIDATION PHASE

22-Apr-1987

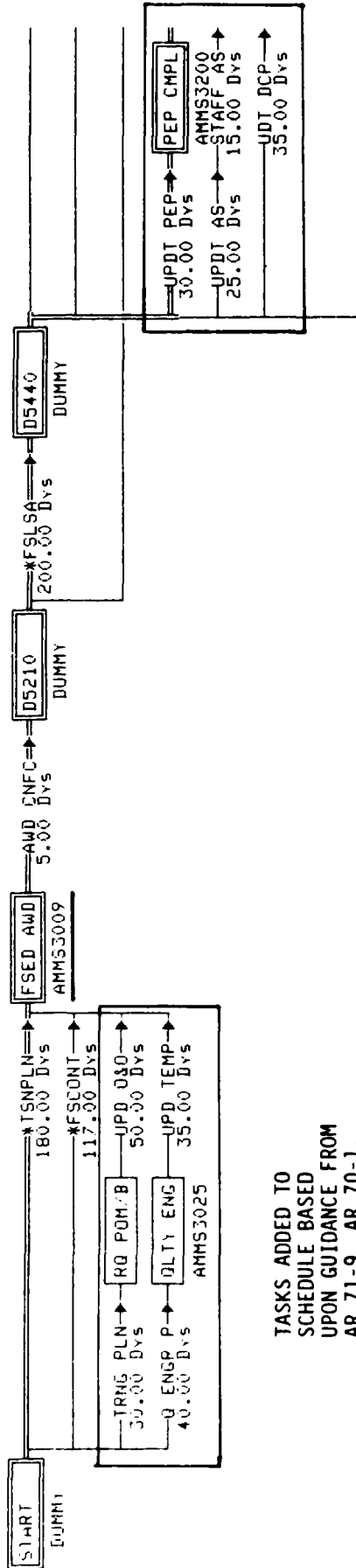
Project: DUTRANS



FULL SCALE DEVELOPMENT PHASE
RESEARCH AND DEVELOPMENT TEMPLATE

FULL SCALE DEVELOPMENT PHASE
23-APR-1987

Project: FS



TASKS ADDED TO
SCHEDULE BASED
UPON GUIDANCE FROM
AR 71-9, AR 70-1,
DA PAM 700-XXX,
AND AMC/TRADOC
PAM 70-2

TASKS ADDED TO
SCHEDULE BASED
UPON GUIDANCE FROM
DA PAM 700-XXX AND
AMC/TRADOC PAM 70-2

MILESTONES WHICH HAVE NAMES BEGINNING WITH "D",
SUCH AS "D8040", ARE "DUMMY" MILESTONES. HTPM
REQUIRES THESE NODES IN CASES WHERE TWO OR
MORE TASKS LEAD INTO ONE TASK OR WHERE ONE TASK
BRANCHES INTO TWO OR MORE TASKS.

TASKS WHICH HAVE NAMES BEGINNING WITH "CONT",
SUCH AS "CONT. 02", ARE "DUMMY" TASKS. HTPM
REQUIRES THESE NODES IN CASES WHERE THERE
ARE TWO MILESTONES IN SEQUENCE.

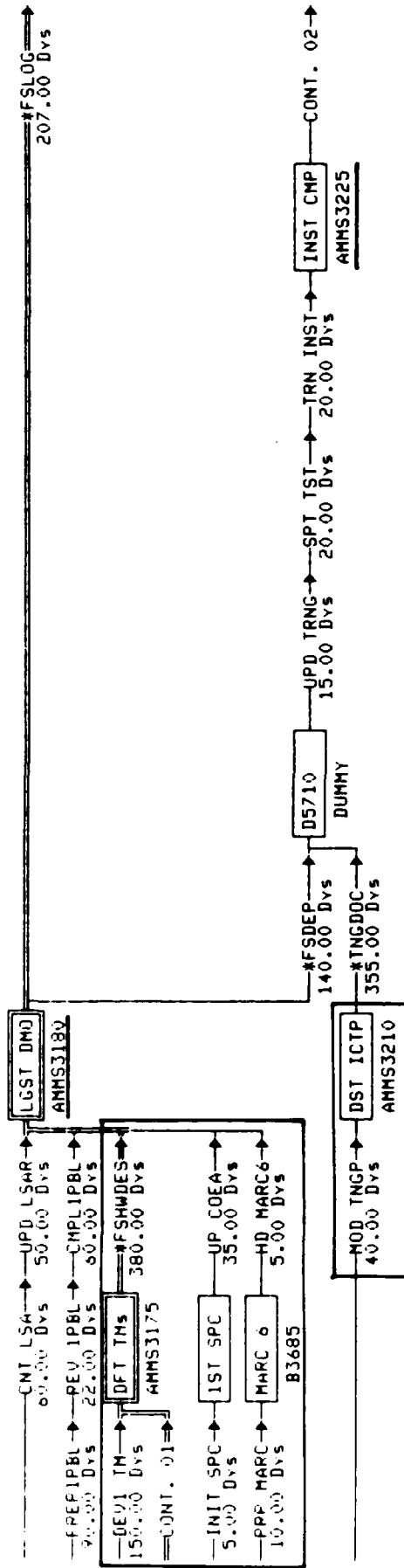
THE TASKS ADDED ARE PROVIDED
AS PERTINENT TO THE ACCOMPLISHMENT
OF THE AMMS MILESTONES AS
DESCRIBED IN DA PAM 700-XX.
DURATION TIMES ARE BASED UPON
ESTIMATED LEVELS OF EFFORT
AND EXTRAPOLATION FROM SIMILAR
TASKS PREVIOUSLY BUILT INTO
THE SCHEDULE.

FULL SCALE DEVELOPMENT PHASE

23-Apr-1987

Page 2

PROJECT: F5

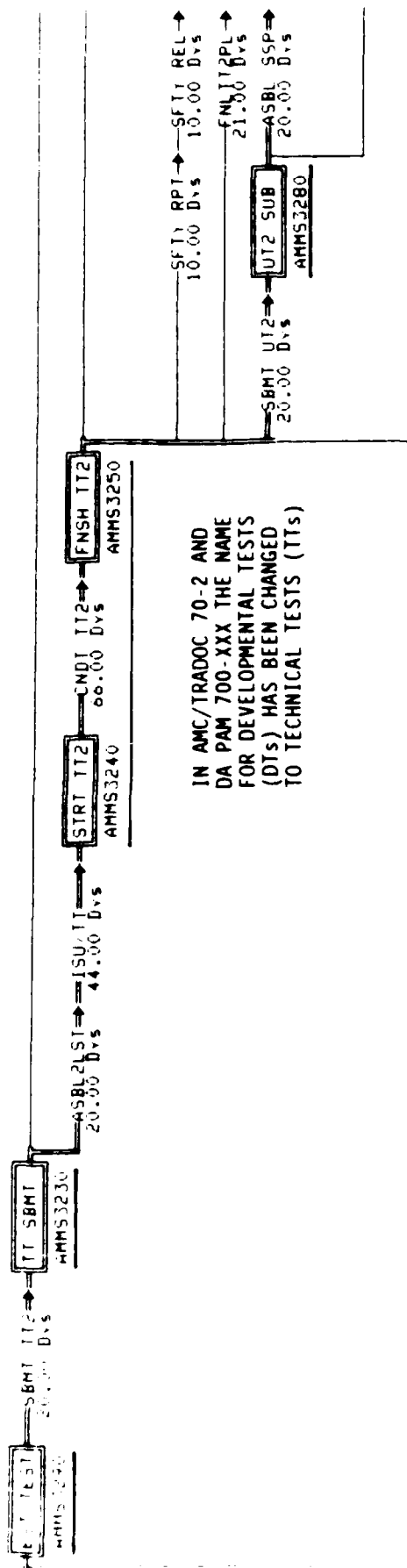


TASK AND MILESTONES ADDED
TO SCHEDULE TO ACCOMPLISH
PROGRAM MANAGEMENT PLANNING.
(AR 70-1, AR 71-9, AMC/TRADOC
PAM 70-2, AND DA PAM 700-XXX

FULL SCALE DEVELOPMENT PHASE

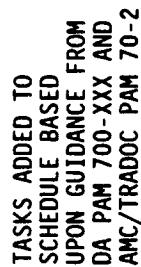
23-Apr-1987

Page 3

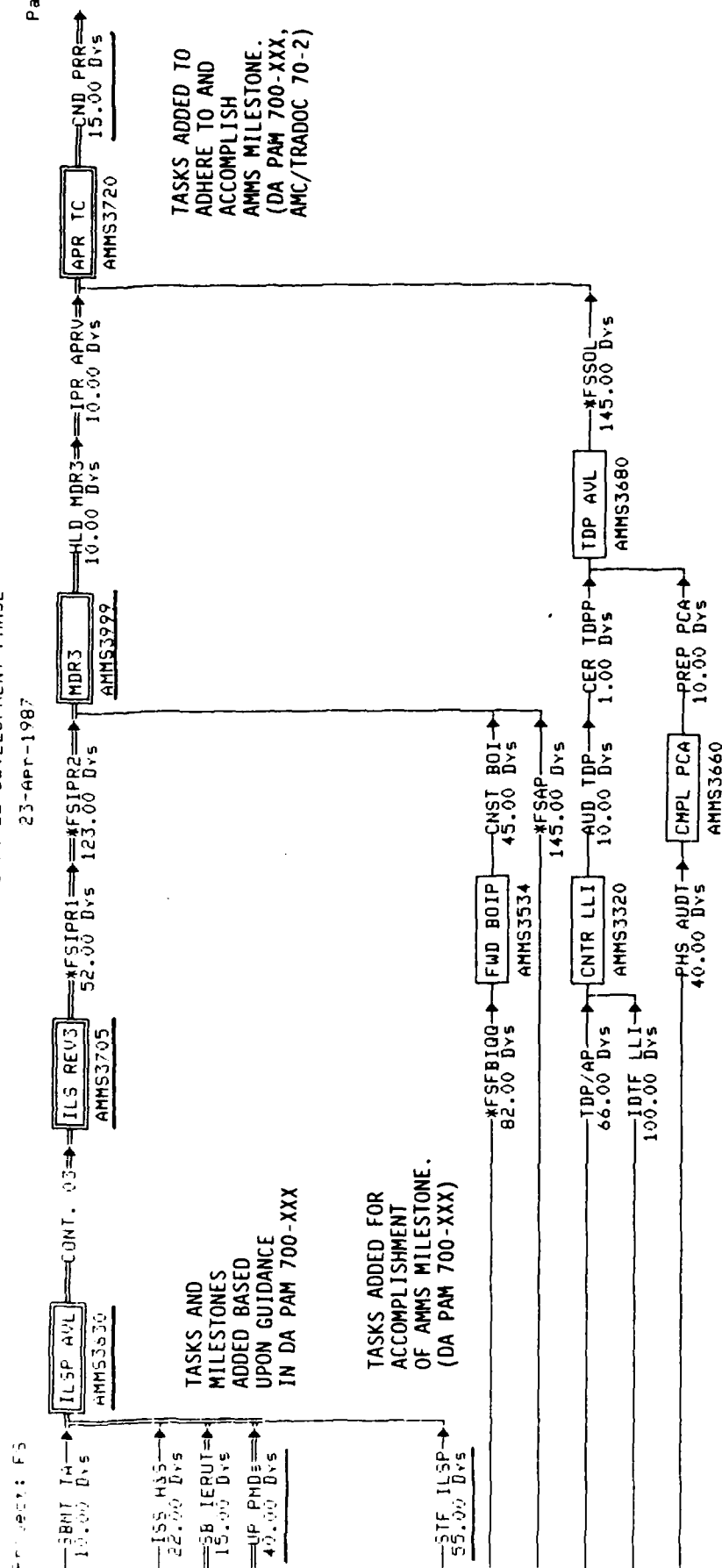


IN AMC/TRADOC 70-2 AND
DA PAM 700-XXX THE NAME
FOR DEVELOPMENTAL TESTS
(DTs) HAS BEEN CHANGED
TO TECHNICAL TESTS (TTs)

23-APR-1987

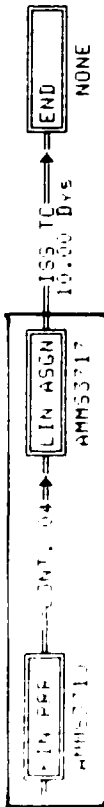


FULL SCALE DEVELOPMENT PHASE



FULL SCALE DEVELOPMENT PHASE

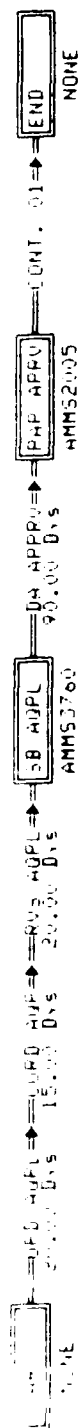
23-APR-1987



TASKS AND
MILESTONES
ADDED BASED
UPON GUIDANCE
IN DA PAM 700-XXX

FULL SCALE DEVELOPMENT PHASE

23-Mar-1987

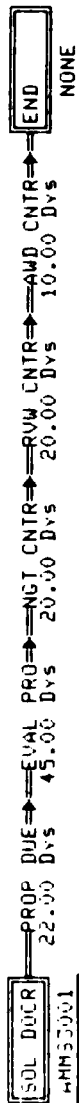


FULL SCALE DEVELOPMENT PHASE

23-Apr-1987

Project: FSCONT

Page 1



01 000 1 12 333 188 655 777 221 232 3 4 555 666 777 888 999 000 1 18

FULL SCALE DEVELOPMENT PHASE

23-APR-1987

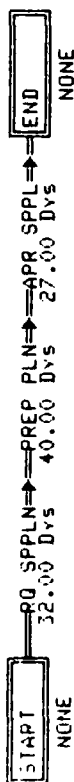
Project: FSDP



FULL SCALE DEVELOPMENT PHASE

23-Apr-1987

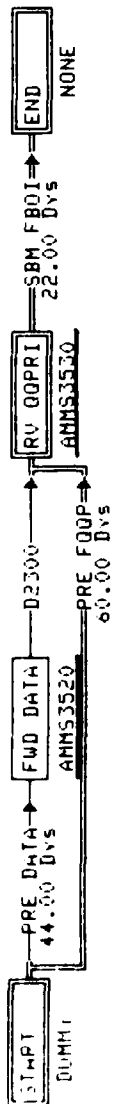
Project: FSDSP



FULL SCALE DEVELOPMENT PHASE

23-Apr-1987

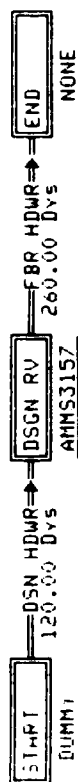
Project: FSFB100

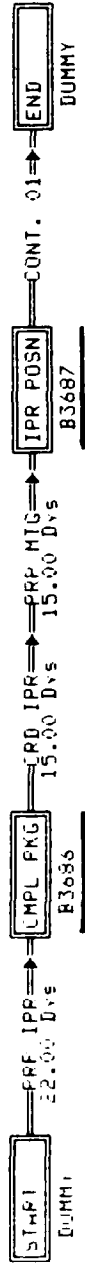


FULL SCALE DEVELOPMENT PHASE

23-APR-1987

Project: FSHWDES



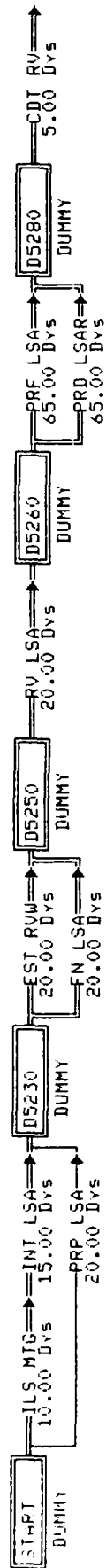


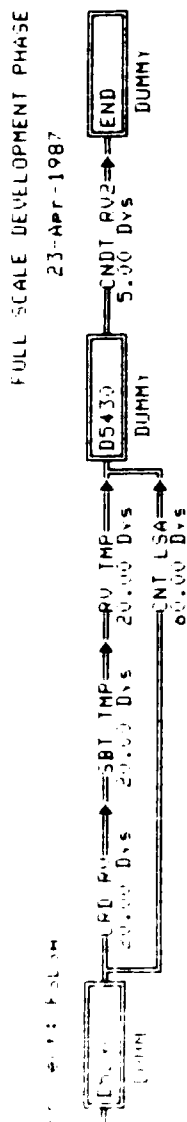
FULL SCALE DEVELOPMENT PHASE

23-APR-1987

Project: FSL5A

Page 1

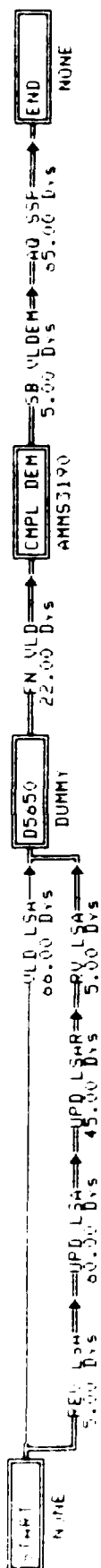




FULL SCALE DEVELOPMENT PHASE

23-APR-1987

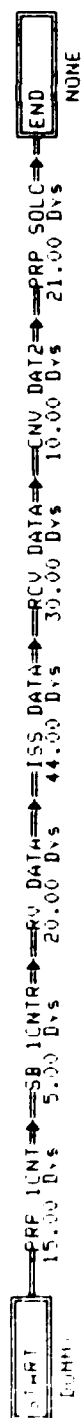
0 1 2 3 4 5 6 7 8 9



FULL SCALE DEVELOPMENT PHASE

23-Apr-1987

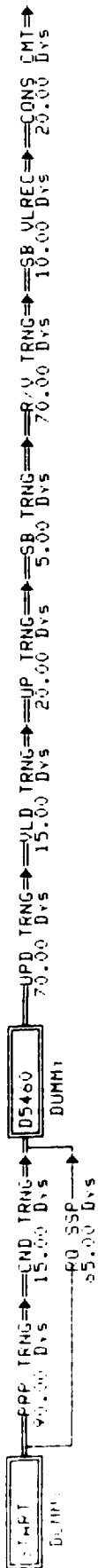
2000



FULL SCALE DEVELOPMENT PHASE

23-Apr-1987

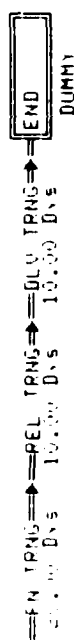
Project: FSTNG000



FULL SCALE DEVELOPMENT PHASE

23-Apr-1987

Project: F51NGDDC



FULL SCALE DEVELOPMENT PHASE

23-APR-1987

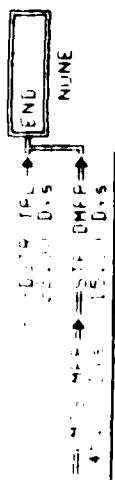
ENGINEERING PLAN



THE TASKS ADDED ARE PROVIDED
AS PERTINENT TO THE ACCOMPLISHMENT
OF THE AMMS MILESTONES AS
DESCRIBED IN DA PAM 700-XX.
DURATION TIMES ARE BASED UPON
ESTIMATED LEVELS OF EFFORT
AND EXTRAPOLATION FROM SIMILAR
TASKS PREVIOUSLY BUILT INTO
THE SCHEDULE.

FULL SCALE DEVELOPMENT PHASE
23-APR-1997

Page 2



TASKS ADDED TO
SCHEDULE BASED
UPON GUIDANCE FROM
DA PAM 700-XXX AND
AMC/TRADOC PAM 70-2

PRODUCTION AND DEPLOYMENT PHASE
RESEARCH AND DEVELOPMENT TEMPLATE

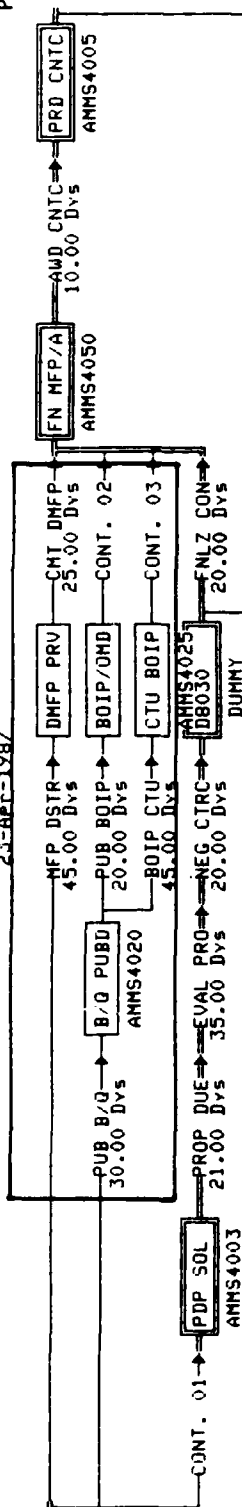
Project: PD

FDP PDM
AMMS4000

23-Apr-1987

PRODUCTION AND DEPLOYMENT PHASE

Page 1

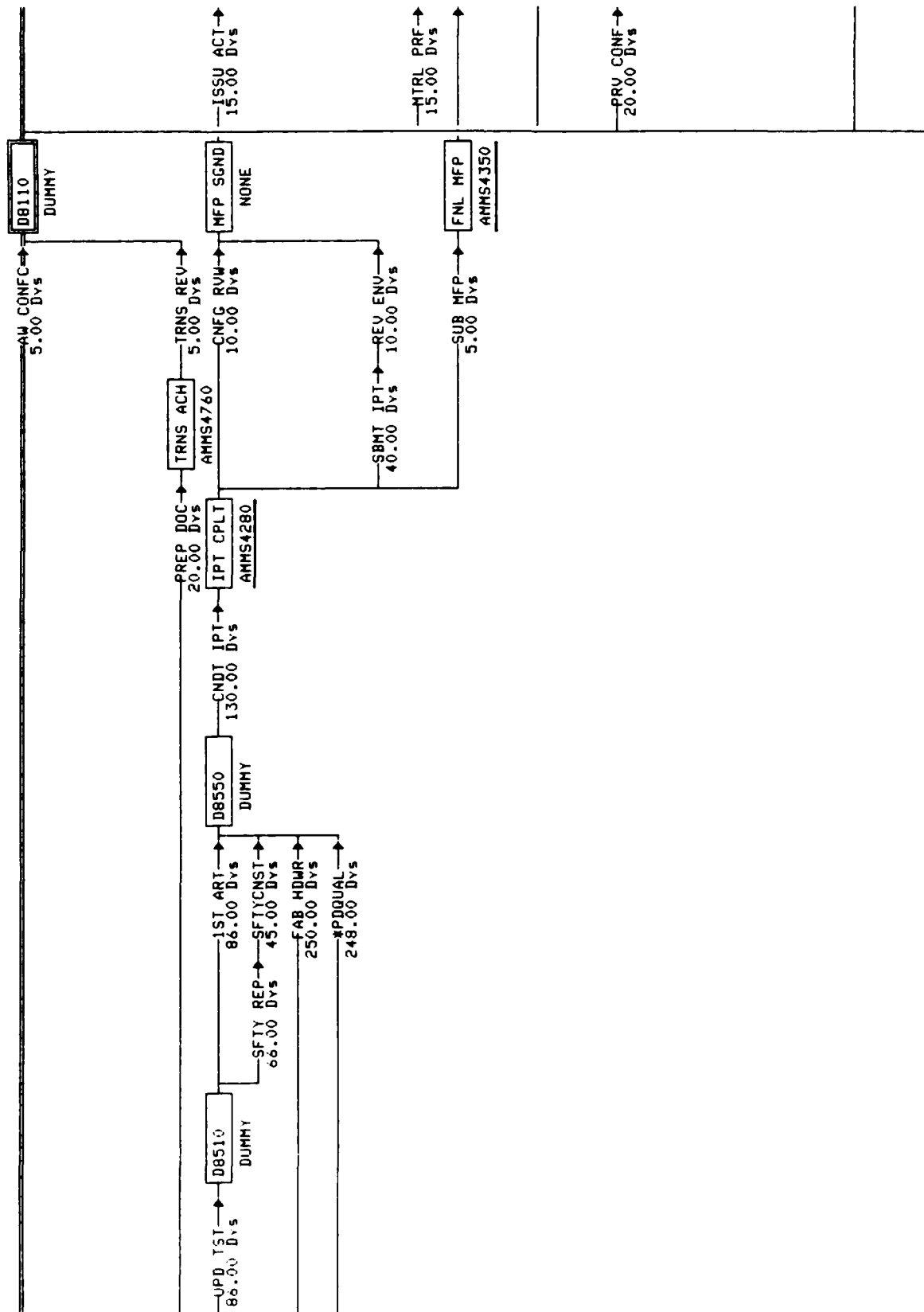


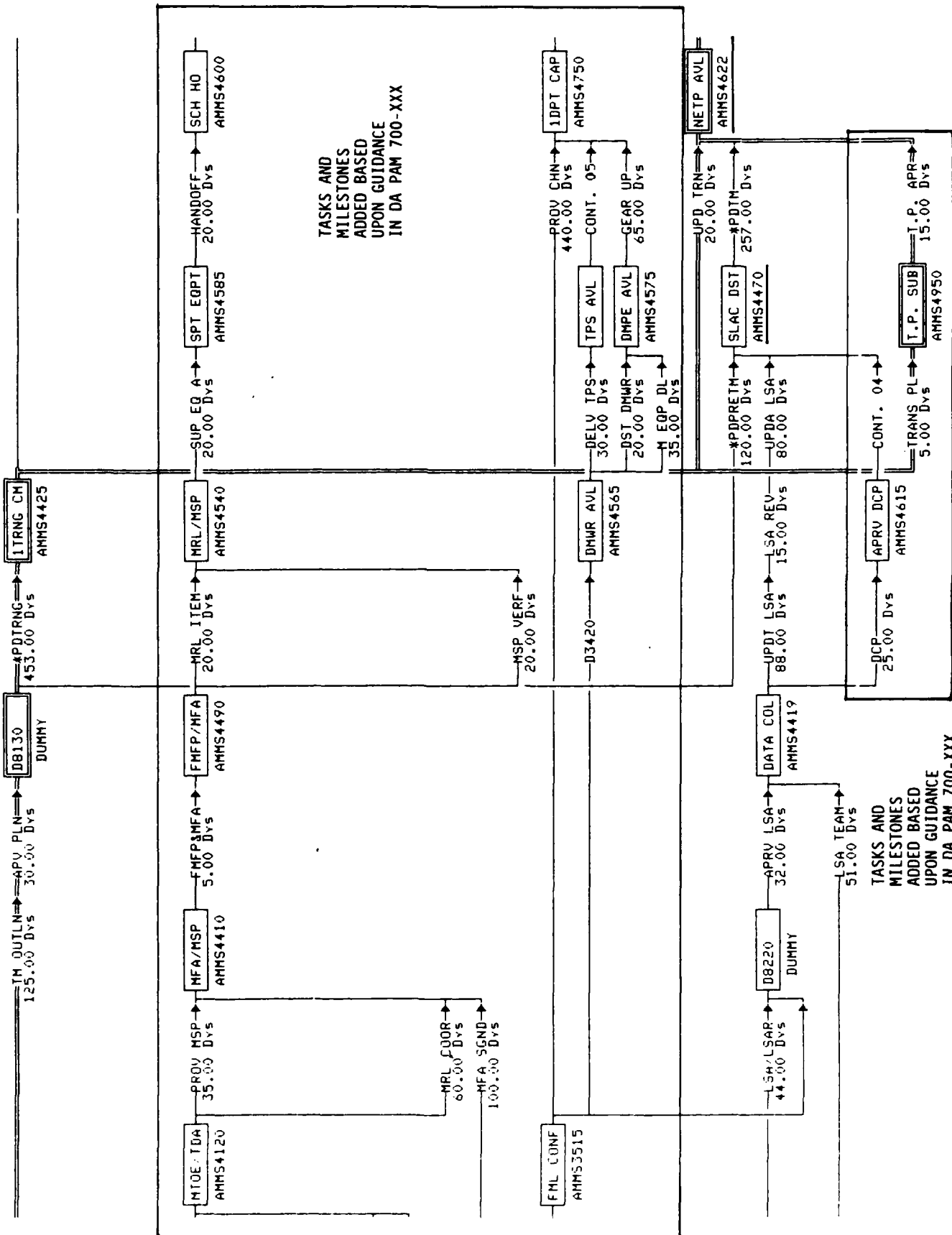
MILESTONES AND TASKS
ADDED TO COMPLETE
THE BOIP/QOPRI
PROCESS. (AR 71-2,
AMC/TRADOC PAM
70-2, AND DA
PAM 700-XXX)

MILESTONES WHICH HAVE NAMES BEGINNING WITH "D",
SUCH AS "DB040", ARE "DUMMY" MILESTONES. HTPM
REQUIRES THESE NODES IN CASES WHERE TWO OR
MORE TASKS LEAD INTO ONE TASK OR WHERE ONE TASK
BRANCHES INTO TWO OR MORE TASKS.

TASKS WHICH HAVE NAMES BEGINNING WITH "CONT",
SUCH AS "CONT. 02", ARE "DUMMY" TASKS. HTPM
REQUIRES THESE NODES IN CASES WHERE THERE
ARE TWO MILESTONES IN SEQUENCE.

THE TASKS ADDED ARE PROVIDED
AS PERTINENT TO THE ACCOMPLISHMENT
OF THE AMMS MILESTONES AS
DESCRIBED IN DA PAM 700-XX.
DURATION TIMES ARE BASED UPON
ESTIMATED LEVELS OF EFFORT
AND EXTRAPOLATION FROM SIMILAR
TASKS PREVIOUSLY BUILT INTO
THE SCHEDULE.



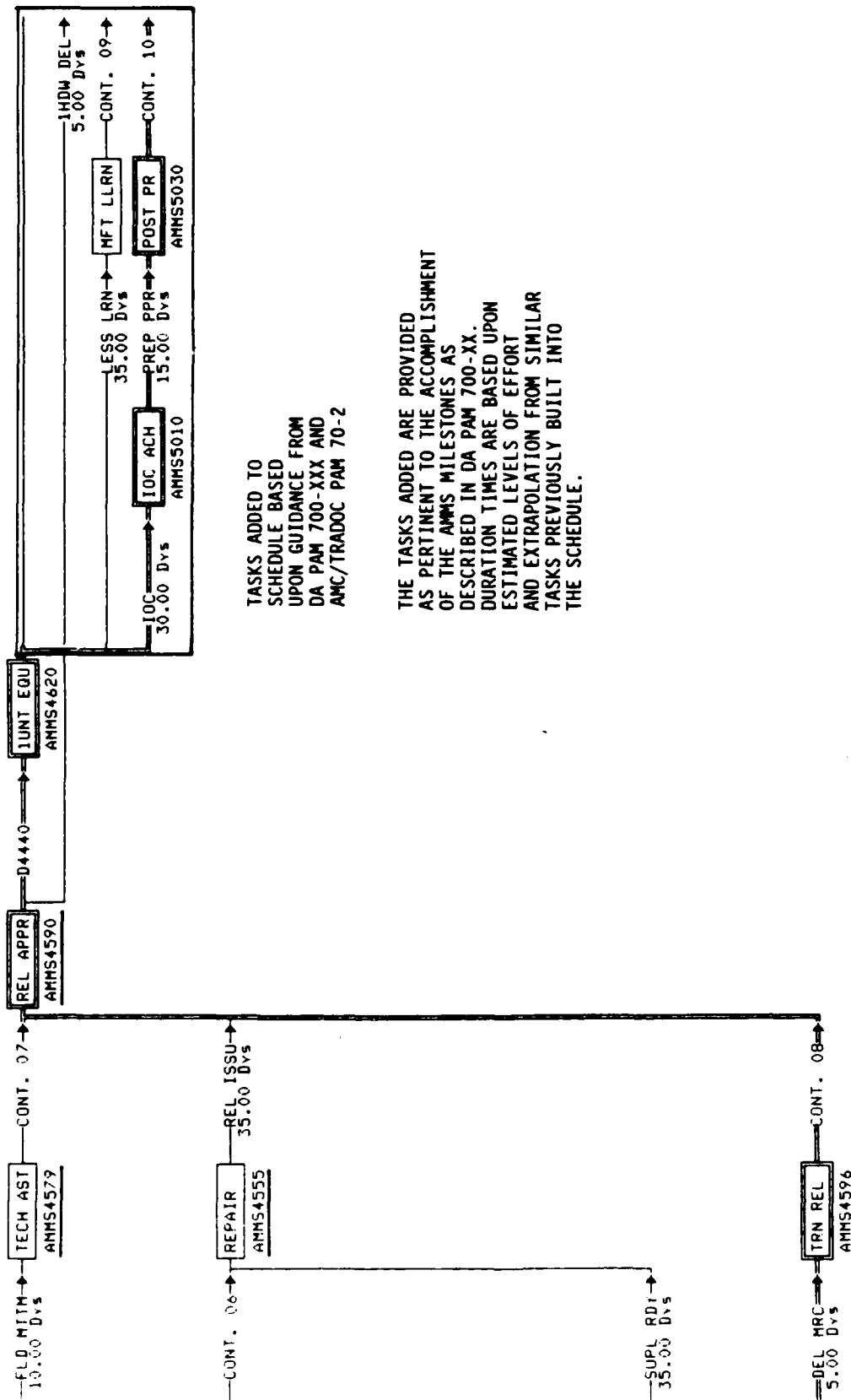


Project: PD

PRODUCTION AND DEPLOYMENT PHASE

23-APR-1987

Page 4



TASKS ADDED TO
SCHEDULE BASED
UPON GUIDANCE FROM
DA PAM 700-XXX AND
AMC/TRADOC PAM 70-2

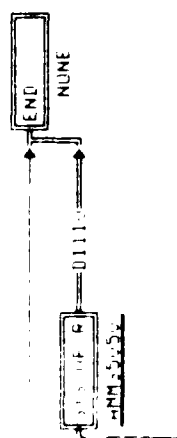
THE TASKS ADDED ARE PROVIDED
AS PERTINENT TO THE ACCOMPLISHMENT
OF THE AMMS MILESTONES AS
DESCRIBED IN DA PAM 700-XX.
DURATION TIMES ARE BASED UPON
ESTIMATED LEVELS OF EFFORT
AND EXTRAPOLATION FROM SIMILAR
TASKS PREVIOUSLY BUILT INTO
THE SCHEDULE.

18 1987 APR 23 10 00 AM

Page 5

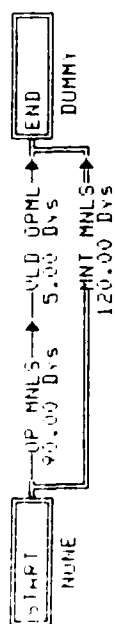
PRODUCTION AND DEPLOYMENT PHASE

23-Apr-1987



FAULTS 1014 AND DEPLOYMENT PHASE

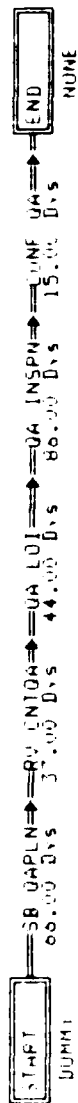
7861-JAM-62



PRODUCTION AND DEPLOYMENT PHASE

23 APR 1987

PROJECT: FDUHML



PRODUCTION AND DEPLOYMENT PHASE

23-APR-1987

Project: PDIM



PRODUCTION AND DEPLOYMENT PHASE

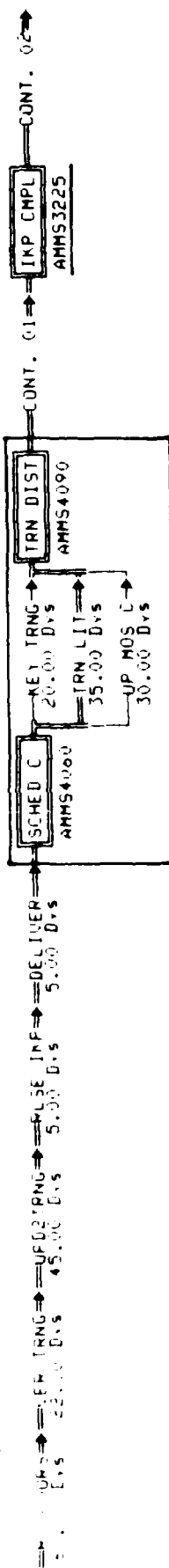
23-Apr-1987

PRG: P01TRNG

1000000	APR TRNG	50.00 Dvs	20.00 Dvs	20.00 Dvs	5.00 Dvs	5.00 Dvs	22.00 Dvs	22.00 Dvs	60.00 Dvs	60.00 Dvs	37.00 Dvs	60.00 Dvs	20.00 Dvs
	APR TRNG	50.00 Dvs	20.00 Dvs	20.00 Dvs	5.00 Dvs	5.00 Dvs	22.00 Dvs	22.00 Dvs	60.00 Dvs	60.00 Dvs	37.00 Dvs	60.00 Dvs	20.00 Dvs
	APR TRNG	50.00 Dvs	20.00 Dvs	20.00 Dvs	5.00 Dvs	5.00 Dvs	22.00 Dvs	22.00 Dvs	60.00 Dvs	60.00 Dvs	37.00 Dvs	60.00 Dvs	20.00 Dvs

PRODUCTION AND DEPLOYMENT PHASE

23-Apr-1987



TASKS ADDED TO
SCHEDULE BASED
UPON GUIDANCE FROM
DA PAM 700-XXX.

THE TASKS ADDED ARE PROVIDED
AS PERTINENT TO THE ACCOMPLISHMENT
OF THE AMMS MILESTONES AS
DESCRIBED IN DA PAM 700-XX.
DURATION TIMES ARE BASED UPON
ESTIMATED LEVELS OF EFFORT
AND EXTRAPOLATION FROM SIMILAR
TASKS PREVIOUSLY BUILT INTO
THE SCHEDULE.

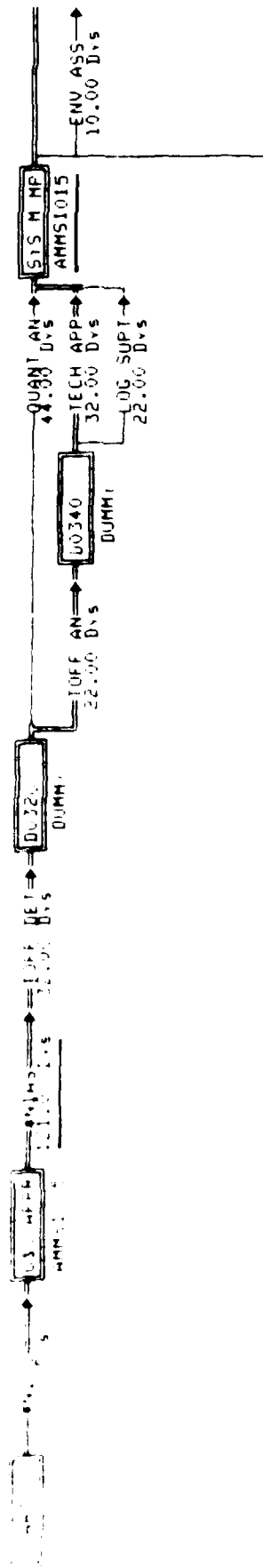
100

1

NONDEVELOPMENT ITEM PHASE I

NDI TEMPLATE

23 Apr 1987



MILESTONES WHICH HAVE NAMES BEGINNING WITH "D", SUCH AS "D8040", ARE "DUMMY" MILESTONES. HTPM REQUIRES THESE NODES IN CASES WHERE TWO OR MORE TASKS LEAD INTO ONE TASK OR WHERE ONE TASK BRANCHES INTO TWO OR MORE TASKS.

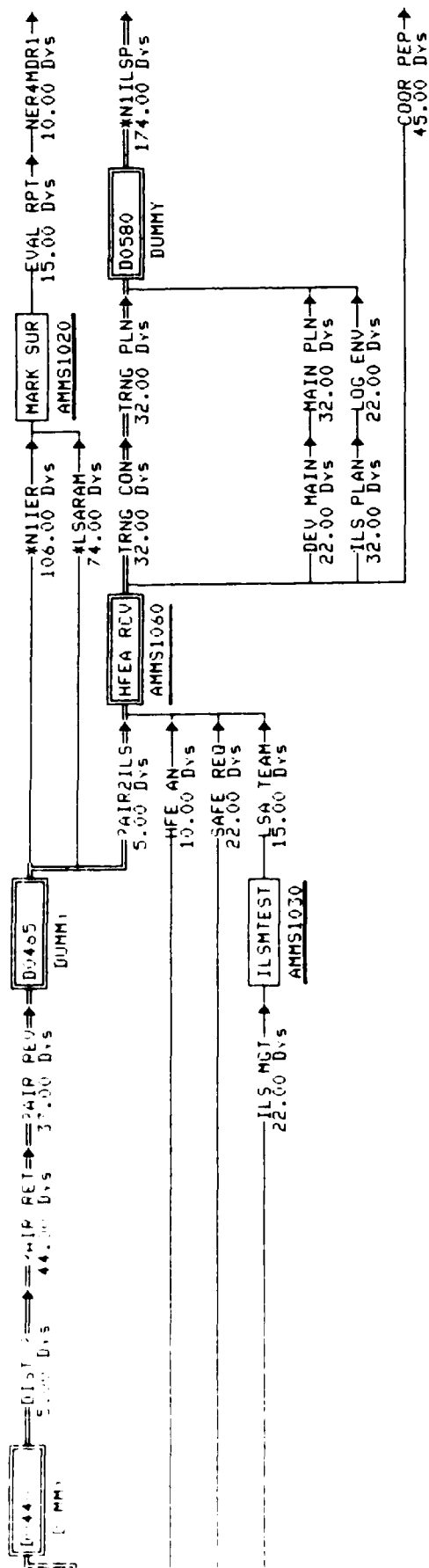
TASKS WHICH HAVE NAMES BEGINNING WITH "CONT", SUCH AS "CONT. 02", ARE "DUMMY" TASKS. HTPM REQUIRES THESE NODES IN CASES WHERE THERE ARE TWO MILESTONES IN SEQUENCE.

THE TASKS ADDED ARE PROVIDED AS PERTINENT TO THE ACCOMPLISHMENT OF THE AMMS MILESTONES AS DESCRIBED IN DA PAM 700-XX. DURATION TIMES ARE BASED UPON ESTIMATED LEVELS OF EFFORT AND EXTRAPOLATION FROM SIMILAR TASKS PREVIOUSLY BUILT INTO THE SCHEDULE.

NONDEVELOPMENT ITEM (NDI) PHASE I

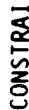
23-Apr-1987

Page 3



THE LOA HAS BEEN SUSPENDED. THE ROC IS THE FORMAL REQUIREMENT DOCUMENT. THE ROC IS NOT NORMALLY APPROVED UNTIL PROOF OF PRINCIPLE HAS BEEN CONDUCTED UNDER AN APPROVED O & O PLAN. (AR 71-9, AMC/TRADOC PAM 70-2)

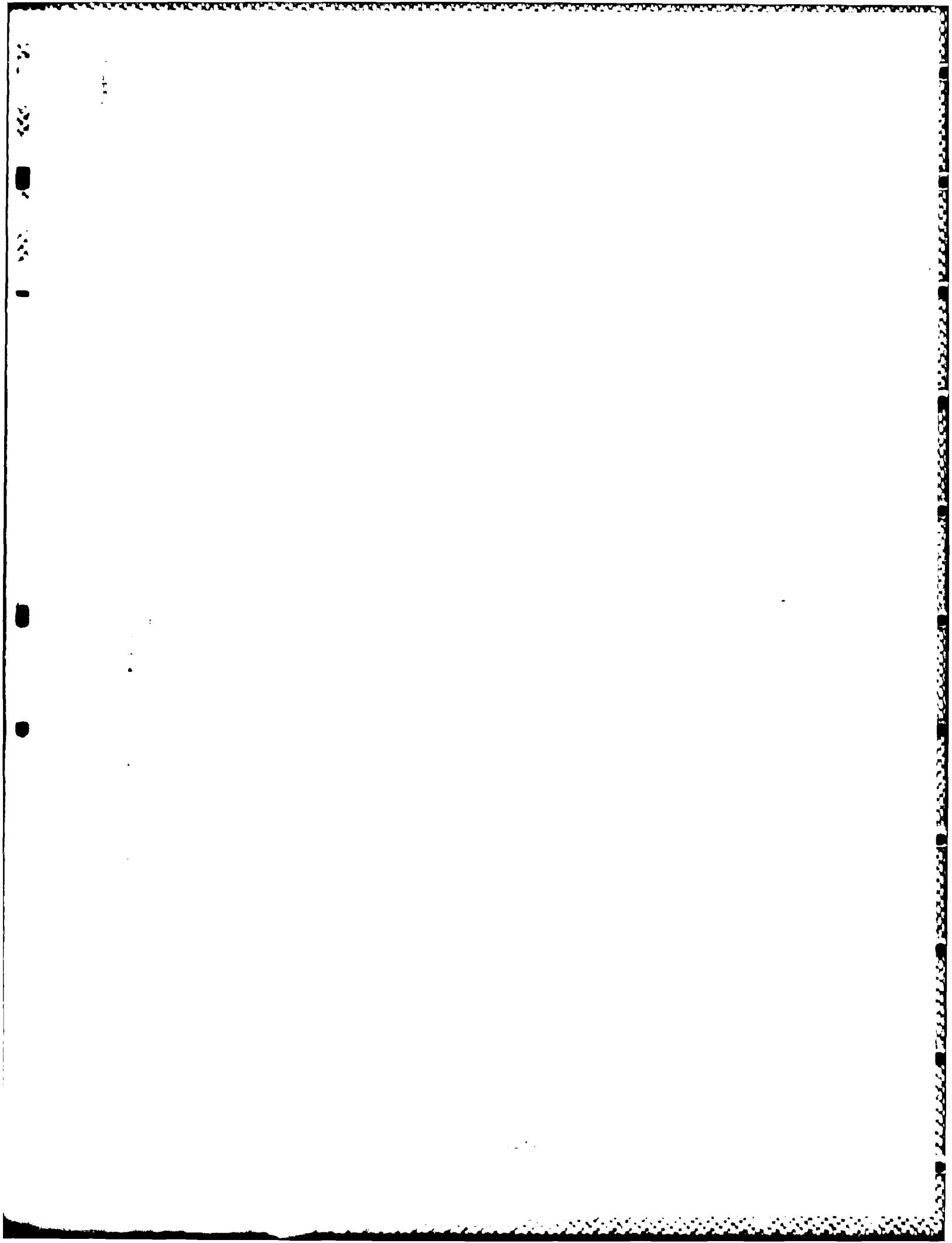
1921-1922



THE ACQUISITION STRATEGY IS THE HEART OF PROGRAM PLANNING AND SETS THE BASIC COURSE OF ACTION TO BE FOLLOWED. (AR 70 1)

1954

Figure 1 illustrates the evolution of a 2D lattice of particles. The top row shows a single particle at the top center. The second row shows two particles at the top corners. The third row shows four particles at the corners. The bottom row shows a single particle at the bottom center. The diagrams are arranged in a grid with columns labeled 1, 2, 3, 4 from left to right and rows labeled 1, 2, 3, 4 from top to bottom. The particles are represented by small black dots.

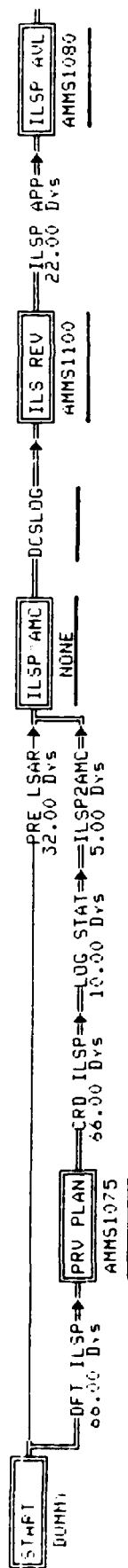


NONDEVELOPMENT ITEM (NDI) PHASE I

Page 1

Project: NIIISP

23-Apr-1987



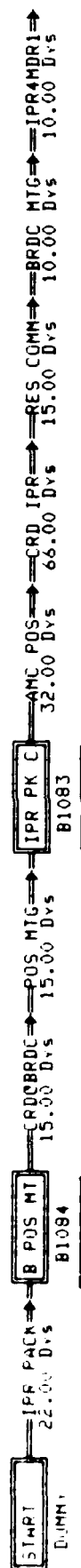
NO DEVELOPMENT ITEM - NDI - PHASE I

20-Apr-1987

FOR INFO ONLY

STOP HERE → END
S. J. [unclear]

NONE

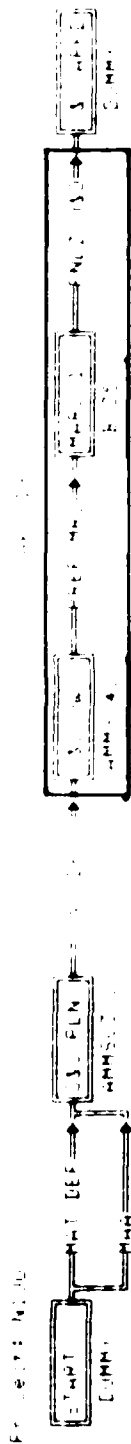


WIND DEVELOPMENT ITEM (NDI) PHASE I

23-APR-1987

6-11 NICH-124





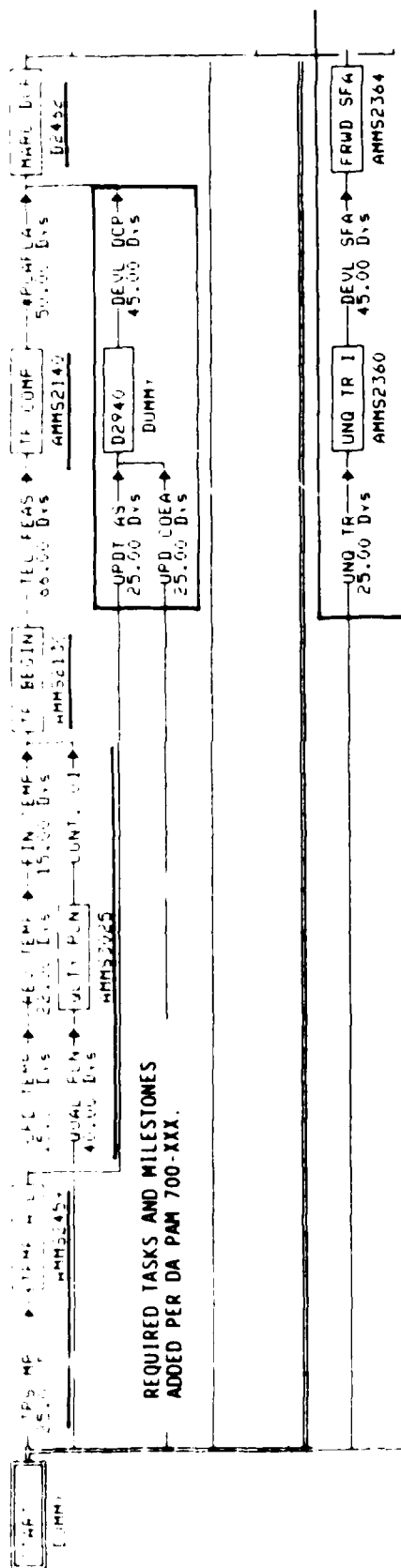
AMMS MILESTONES AND TASKS HAVE BEEN
GIVEN NAMES TO DESCRIBE THE ACTIVITIES
BEING UNDERTAKEN DURING THIS PERIOD.

PROJECT: NITRUS



NONDEVELOPMENT ITEM PHASE II

NDI TEMPLATE



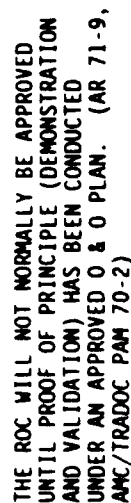
THE AS AND COLA ARE REQUIRED PROGRAM MANAGEMENT DOCUMENTS. THESE DOCUMENTS PACKAGE SHOULD CONTAIN THE MOST CURRENT PROGRAM DATA. THE DCP IS REQUIRED FOR THE MILESTONE III RPPR. THE TASKS HAVE BEEN ADDED TO ACHIEVE THIS OBJECTIVE. (PAR 70-1, AMC/TRADOC PAM 70-2 DA PAM 700-XXX)

THESE ILS TASKS ARE REQUIRED FOR
UPDATING THE ILSP TO INCLUDE
THE SFA AND THE PROVISIONING
PLAN. (DA PAM 700-XXX)

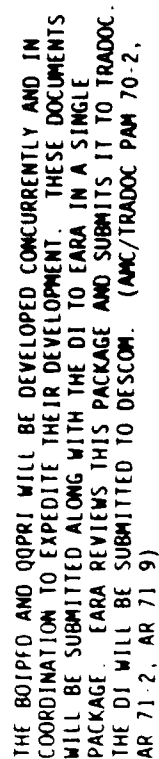
MILESTONES WHICH HAVE NAMES BEGINNING WITH "D", SUCH AS "D804C", ARE "DUMMY" MILESTONES. HTPM REQUIRES THESE MODES IN CASES WHERE TWO OR MORE TASKS LEAD INTO ONE TASK OR WHERE ONE TASK BRANCHES INTO TWO OR MORE TASKS.

TASKS WHICH HAVE NAMES BEGINNING WITH "CONT", SUCH AS "CONT. 02", ARE "DUMMY" TASKS. HTPM REQUIRES THESE NODES IN CASES WHERE THERE ARE TWO MILESTONES IN SEQUENCE.

THE TASKS ADDED ARE PROVIDED AS PERTINENT TO THE ACCOMPLISHMENT OF THE AMMS MILESTONES AS DESCRIBED IN DA PAM 700-XX. DURATION TIMES ARE BASED UPON ESTIMATED LEVELS OF EFFORT AND EXTRAPOLATION FROM SIMILAR TASKS PREVIOUSLY BUILT INTO THE SCHEDULE.



DUPLICATE NAMES HAVE BEEN CHANGED.

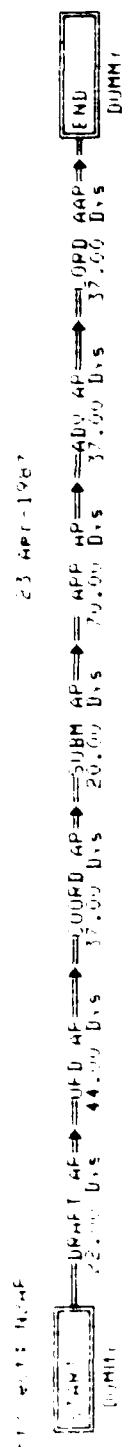


10-10-68 10:00 AM 10/10/68 10:00 AM



23 APR - 1964

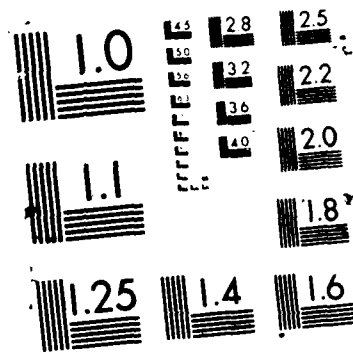
II 35044 - 1794 - 4311 143430730390000000



24

●

A 10x10 grid of squares, with the top-left square missing, representing a 10x10 grid with a 1x1 hole.

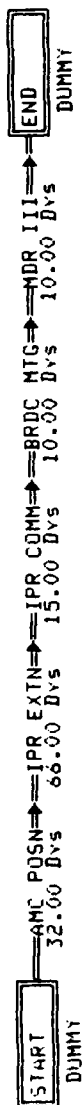




NONDEVELOPMENT ITEM (NDI) PHASE II

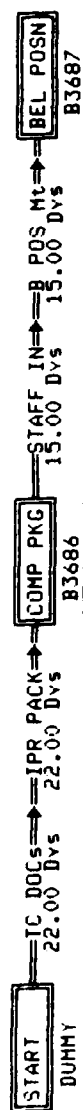
23-Apr-1987

Project: N2IPR3



NONDEVELOPMENT ITEM (NDI) PHASE II

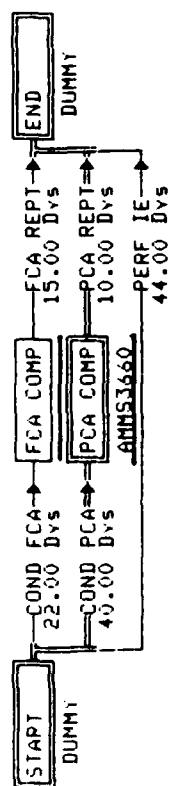
23-APR-1987



DUPLICATE NAMES HAVE BEEN CHANGED.

NONDEVELOPMENT ITEM (NDI) PHASE II
23-Apr-1987

Project: N2PCAFA

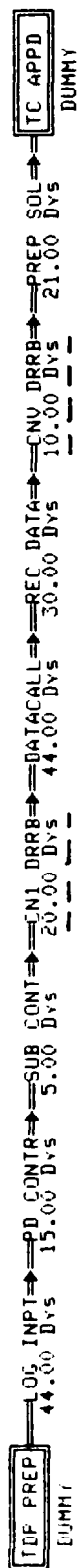


Project: N2FR050L

24-Apr-1987

NONDEVELOPMENT ITEM (NDI) PHASE II

Page 1



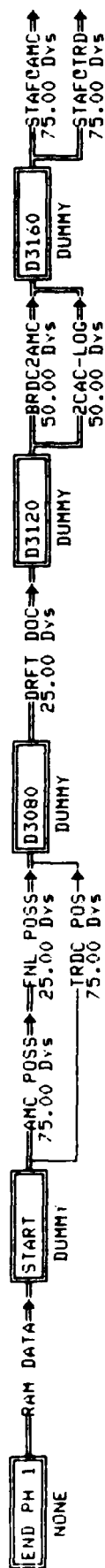
DUPLICATE NAMES HAVE BEEN CHANGED.

Project: N2RUC

23-Apr-1987

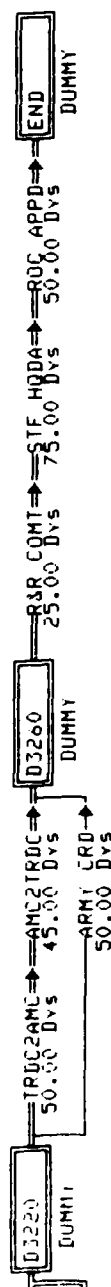
NONDEVELOPMENT ITEM (NDI) PHASE II

Page 1



NONDEVELOPMENT ITEM (NDI) PHASE II

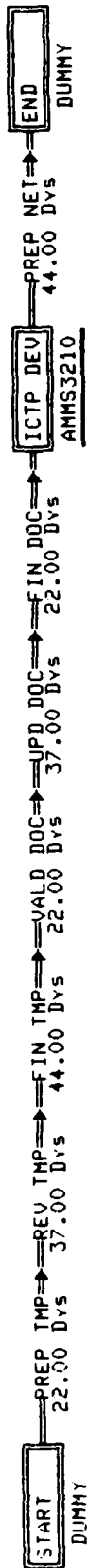
23-Apr-1987



NONDEVELOPMENT ITEM (NDI) PHASE II

23-Apr-1987

Project: N2TNGDOC



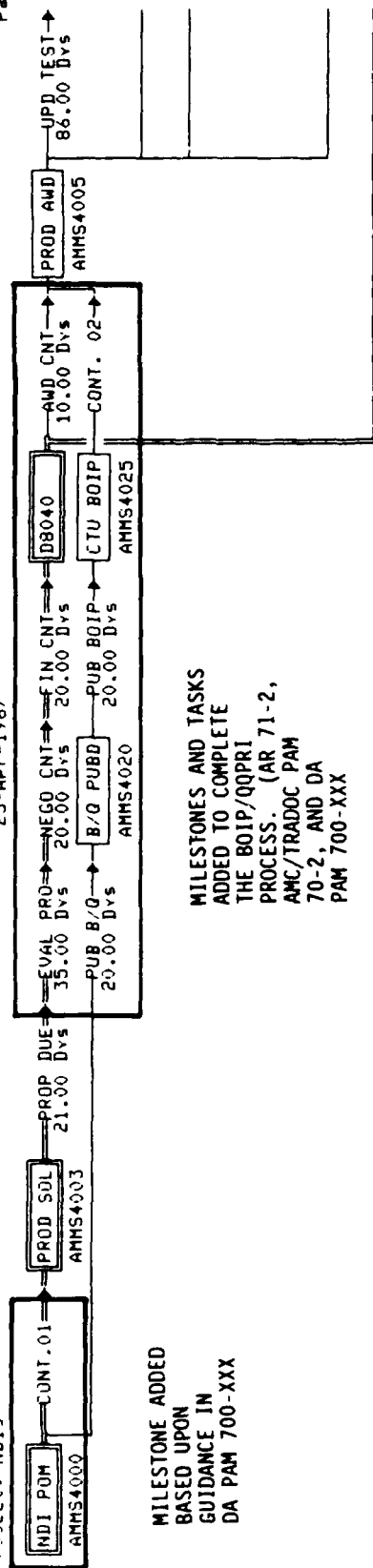
NONDEVELOPMENT ITEM PHASE III
NDI TEMPLATE

Project: NDI3

NONDEVELOPMENT ITEM (NDI) PHASE III

23-APR-1987

Page 1



THE TASKS ADDED ARE PROVIDED AS PERTINENT TO THE ACCOMPLISHMENT OF THE AMMS MILESTONES AS DESCRIBED IN DA PAM 700-XX. DURATION TIMES ARE BASED UPON ESTIMATED LEVELS OF EFFORT AND EXTRAPOLATION FROM SIMILAR TASKS PREVIOUSLY BUILT INTO THE SCHEDULE.

MILESTONES WHICH HAVE NAMES BEGINNING WITH "D", SUCH AS "D8040", ARE "DUMMY" MILESTONES. HTPM REQUIRES THESE NODES IN CASES WHERE TWO OR MORE TASKS LEAD INTO ONE TASK OR WHERE ONE TASK BRANCHES INTO TWO OR MORE TASKS.

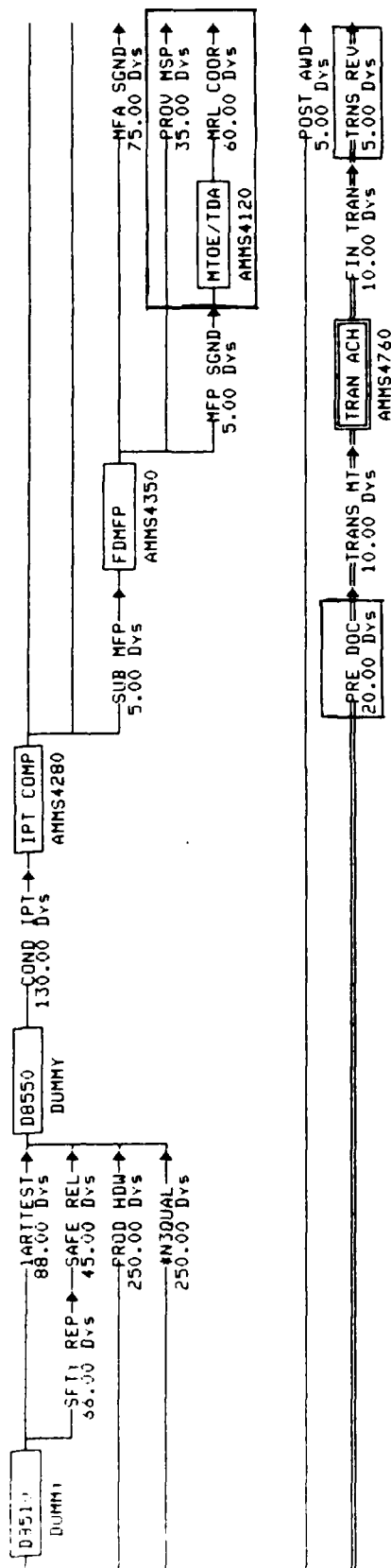
TASKS WHICH HAVE NAMES BEGINNING WITH "CONT", SUCH AS "CONT. 02", ARE "DUMMY" TASKS. HTPM REQUIRES THESE NODES IN CASES WHERE THERE ARE TWO MILESTONES IN SEQUENCE.

Project: ND13

NONDEVELOPMENT ITEM (NDI) PHASE III

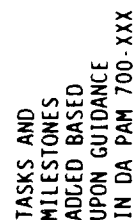
23-Apr-1987

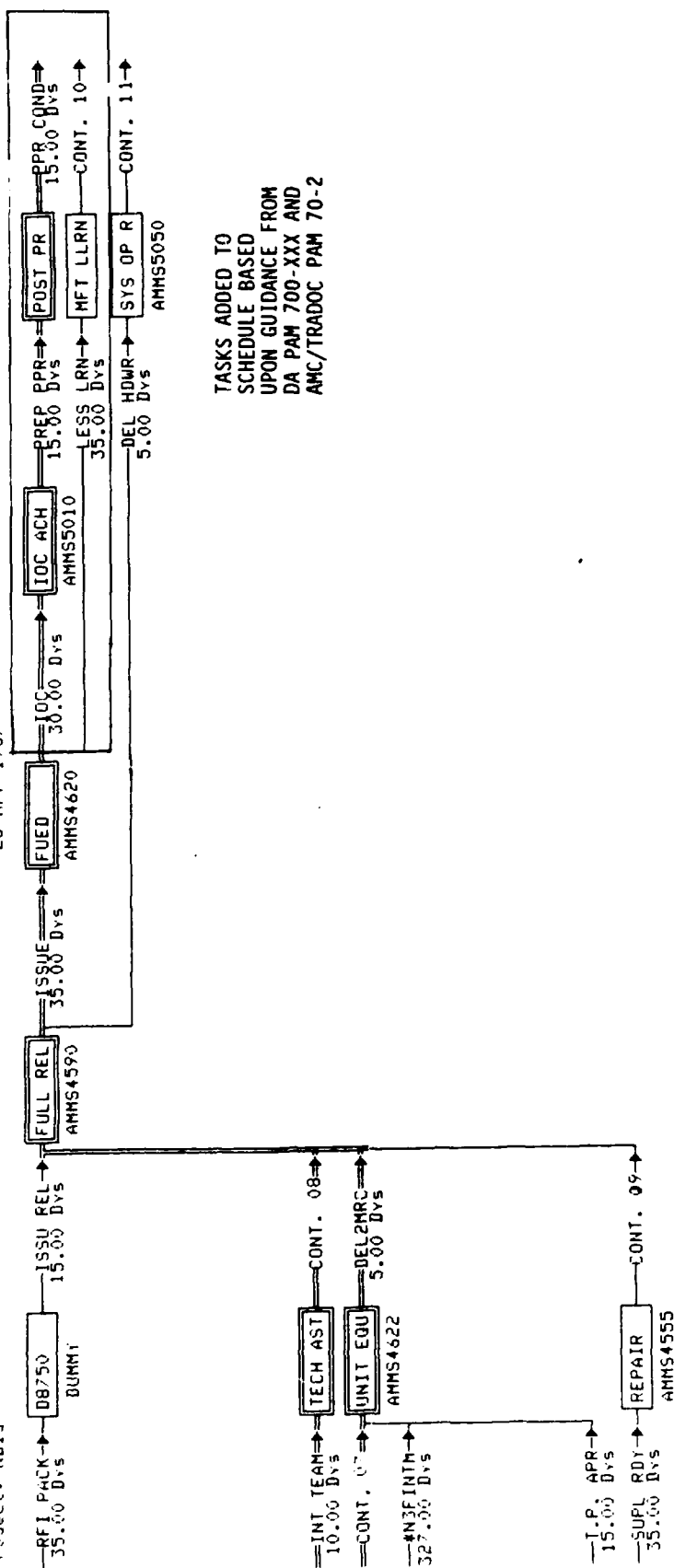
Page 2



TASKS AND
MILESTONES
ADDED BASED
UPON GUIDANCE
IN DA PAM 700-XXX

TASKS ADDED TO
SCHEDULE BASED
UPON GUIDANCE FROM
DA PAM 700-XXX AND
AMC/TRADOC PAM 70-2





TASKS ADDED TO
SCHEDULE BASED
UPON GUIDANCE FROM
DA PAM 700-XXX AND
AMC/TRADOC PAM 70-2

NONDEVELOPMENT ITEM (NDI) PHASE III
23-Apr-1987

Project: NDI3

END

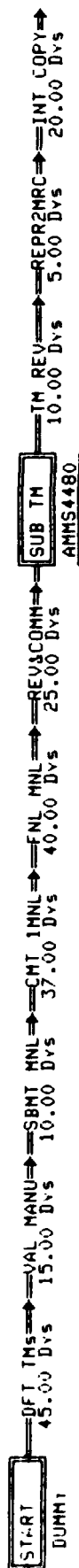
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Project: NJFINIM

NONDEVELOPMENT ITEM (NDI) PHASE III

23-Apr-1987

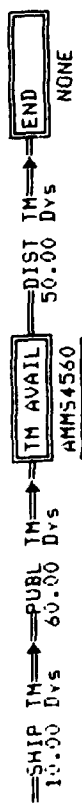
Page 1



NONDEVELOPMENT ITEM (NDI) PHASE III

23-Apr-1987

Project: N3FINIM



Project: N3FINTRN

NONDEVELOPMENT ITEM (NDI) PHASE III

23-Apr-1987

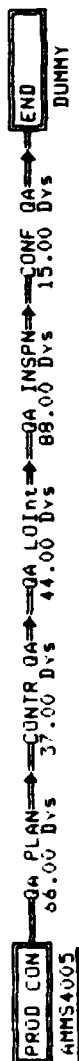
Page 2

ENL TRNG=>DEL TRNG=>DSGN CRS=>GOVT REL=>TRN LIT=>TRN DIST=>INP TRNG=>RV COURSE=>UP MOS C=>SCHED CR=>CONT. 01=>
45.00 Dvs 5.00 Dvs 45.00 Dvs 5.00 Dvs 35.00 Dvs AMMS4090 22.00 Dvs 60.00 Dvs 30.00 Dvs AMMS4060

NONDEVELOPMENT ITEM (NDI) PHASE III

23-Apr-1987

Project: NISUAL



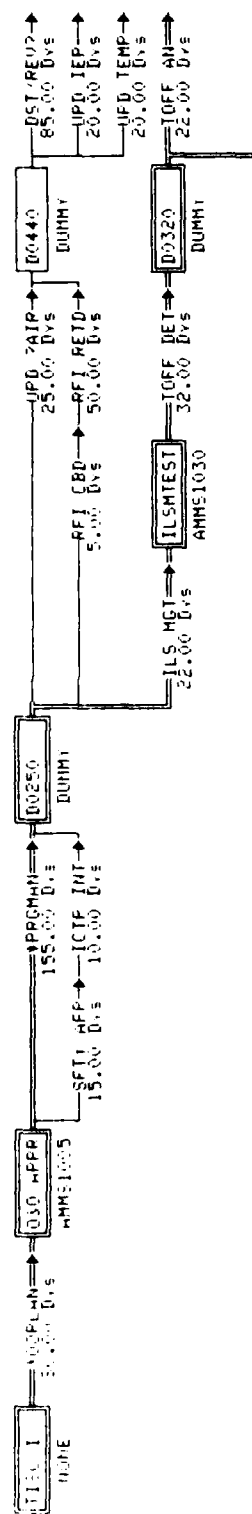
ASAP PHASE I
TECHNOLOGY BASE ACTIVITIES

TECHNOLOGY BASE ACTIVITIES PHASE OF THE H&AP MODEL

15-May-1997

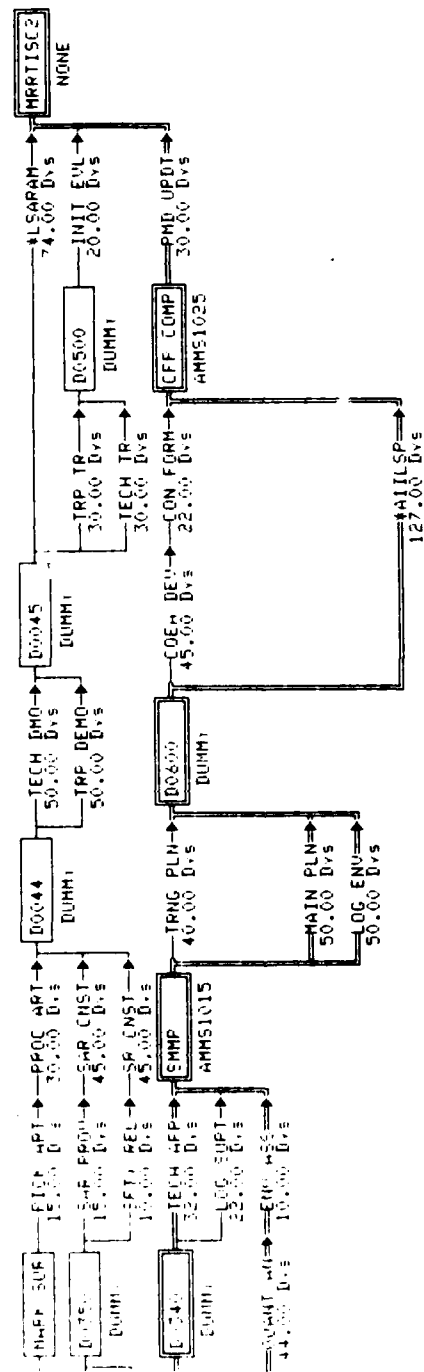
PROJECT: H&AP1

Page 1



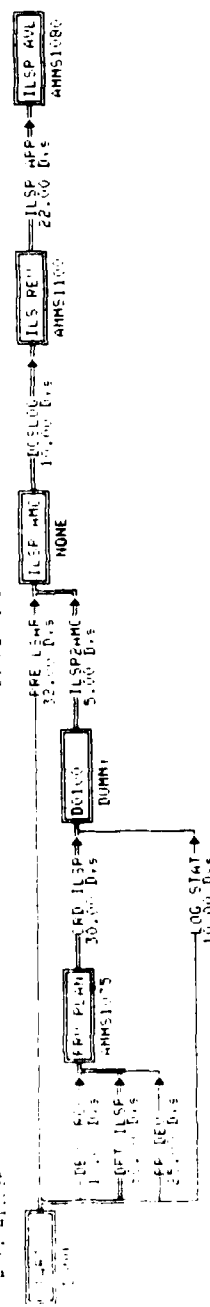
TECHNOLOGY BASE ACTIVITIES PHASE OF THE HASP MODEL

19-M3-1995



30-115-192-

Page 1

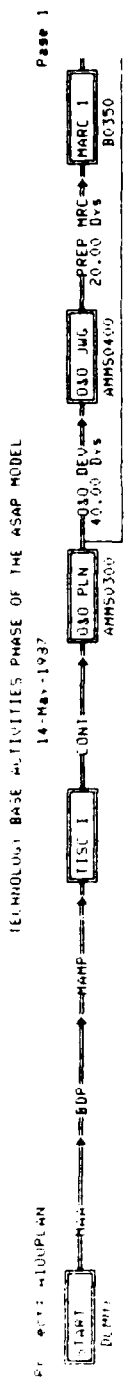


TECHNOLOGY: BASE ACTIVITIES OF THE ASAP MODEL

12-May-1987

PROJECT: AILSARAH





END DUMMY

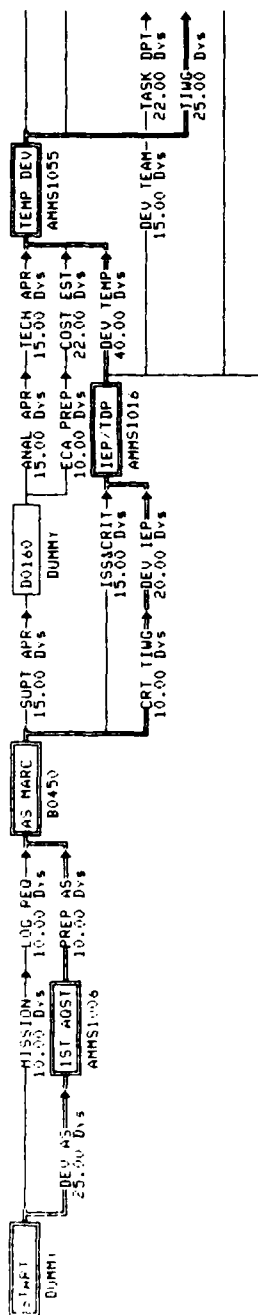
Page 2

100

TECHNOLOGY BASE ACTIVITIES PHASE OF THE ASAP MODEL

15-Nov-1987

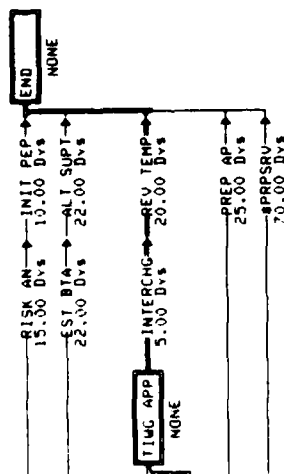
Page 1



TECHNOLOGY BASE ACTIVITIES PHASE OF THE ASAP MODEL
15-May-1987

Page 2

PROJECT ALPHANAM

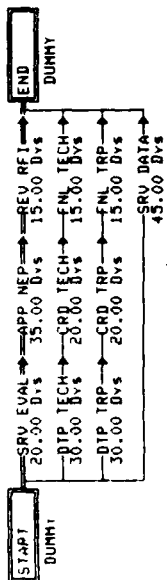


PROOF OF PRINCIPLE PHASE FOR ASAP

11-May-1987

Project: AIPRPSRV

Page 1



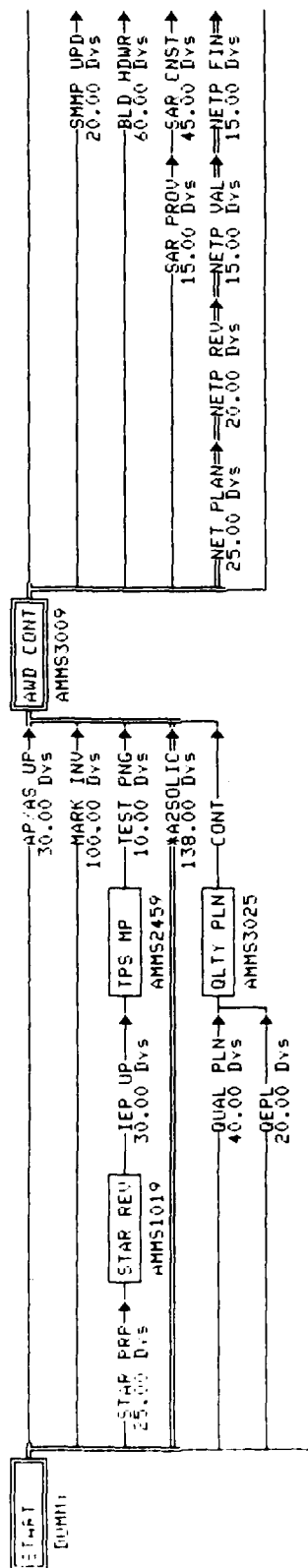
ASAP PHASE II
PROOF OF PRINCIPLE

PROOF OF PRINCIPLE PHASE OF THE ASAP MODEL

Page 1

20-May-1987

PROJECT: ASHF2





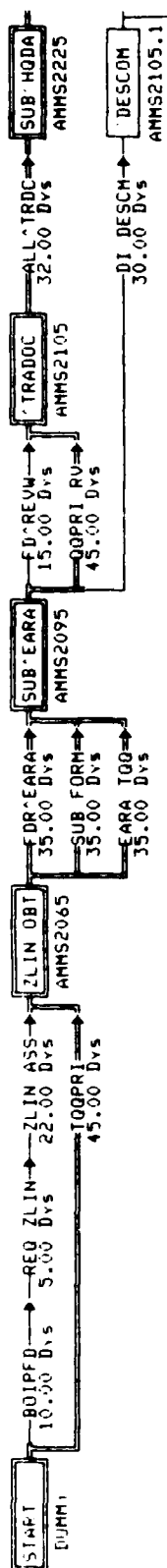


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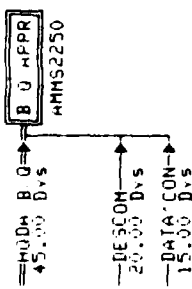
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14-May-1987

Page 1



Project: A280IP



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14-May-1987

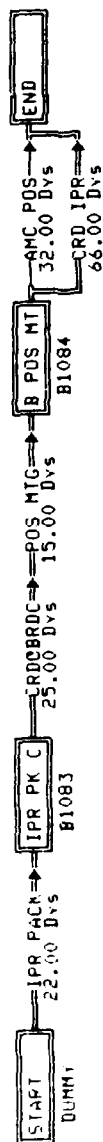
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14-May-1987

Project: M2IPR



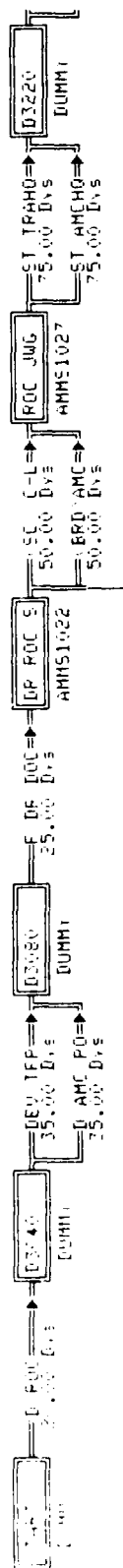
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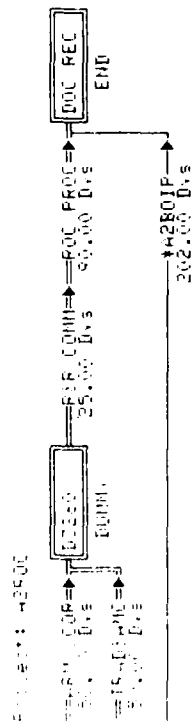
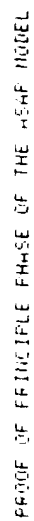
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Project: W2IPFN



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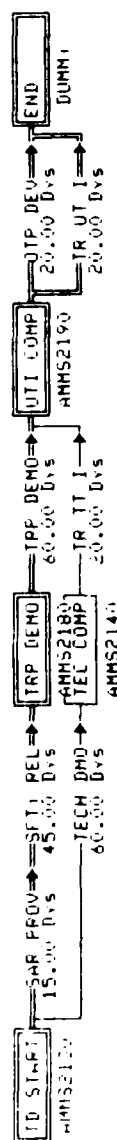


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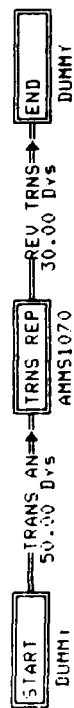


Project: A2TRANS

PROOF OF PRINCIPLE PHASE OF THE ASAP MODEL

14-May-1987

Page 1

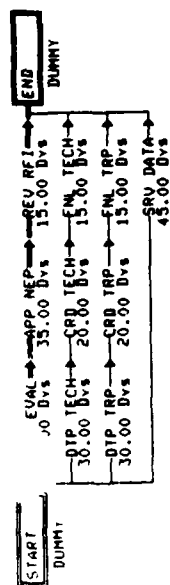


PROOF OF PRINCIPLE PHASE FOR ASAP

11-Nov-1987

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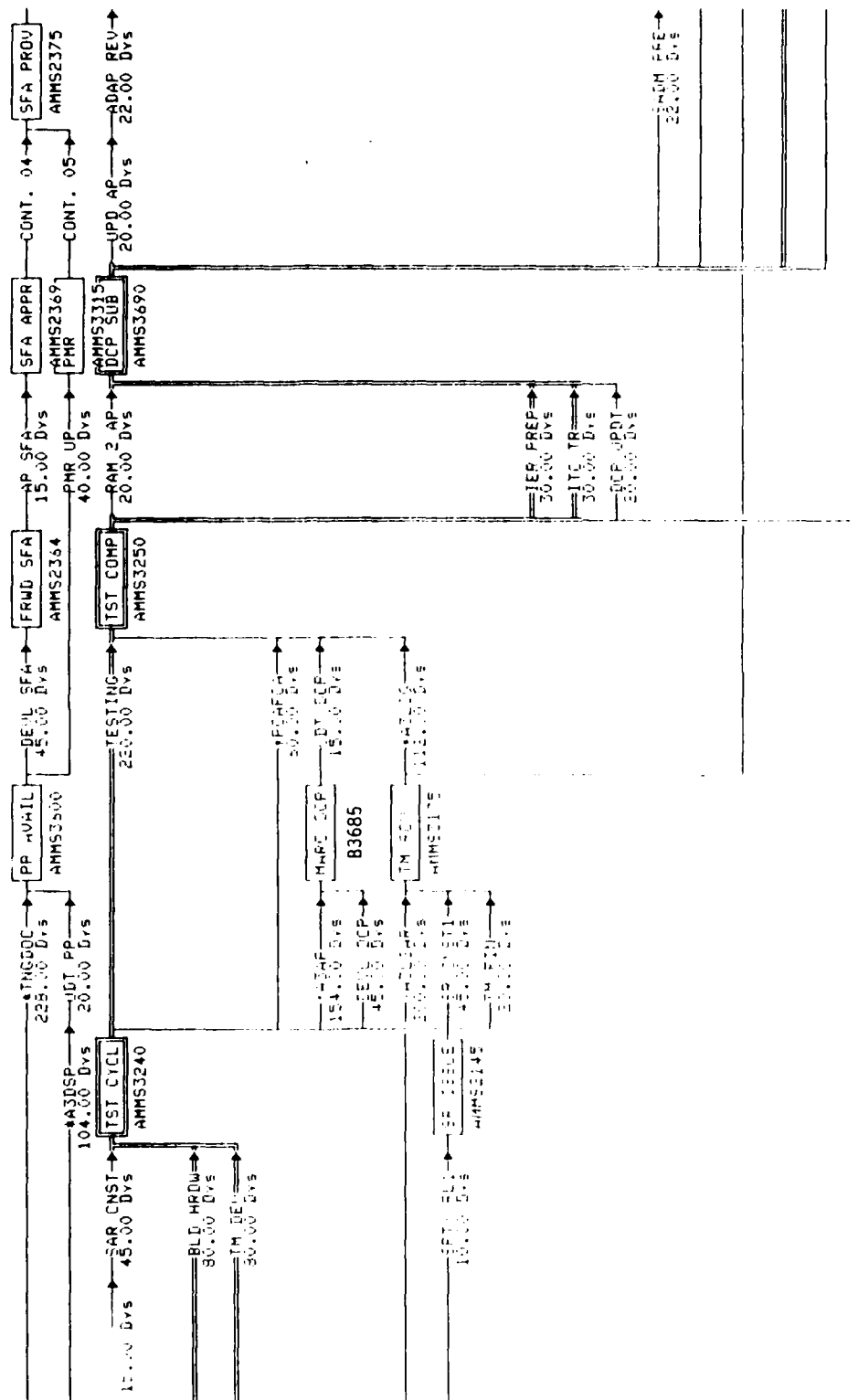


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DEVELOPMENT/PRODUCTION PROVE OUT

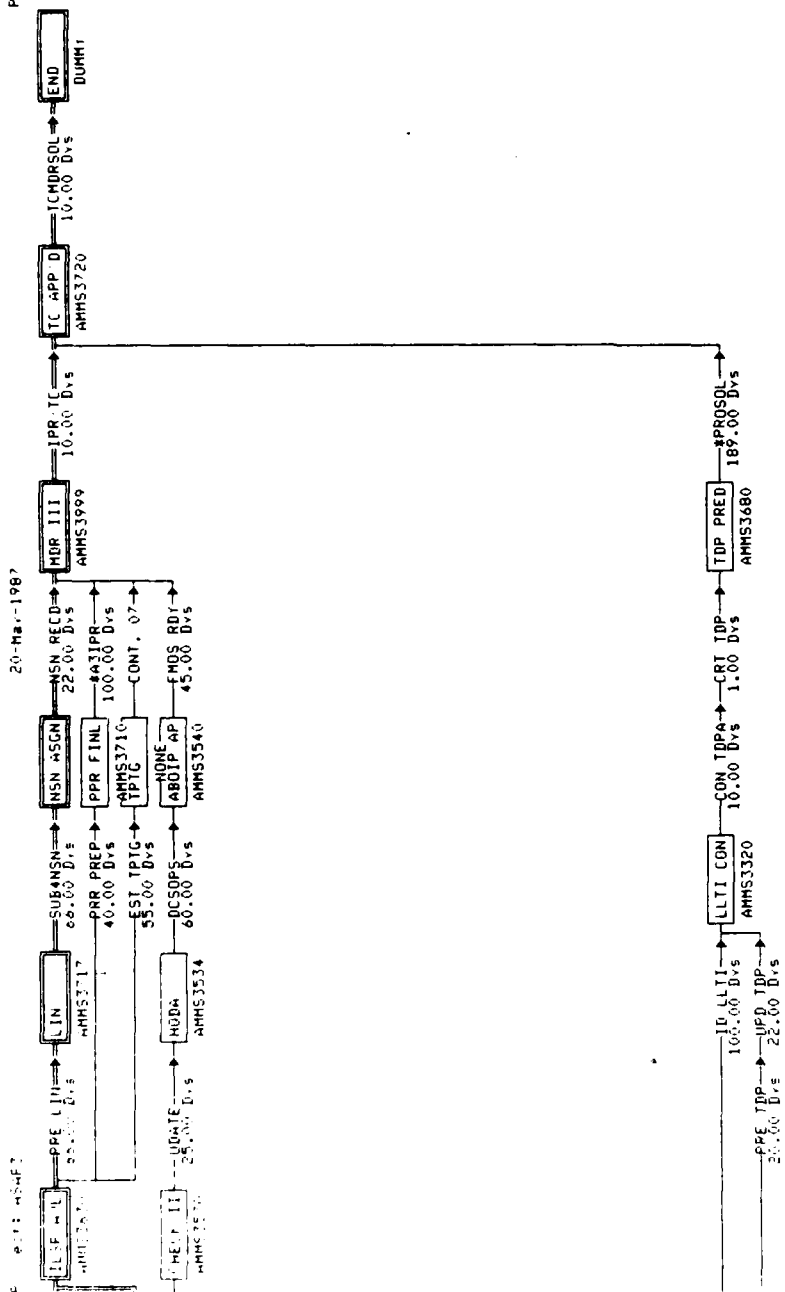


ASAP DEVELOPMENT PRODUCTION PROVE OUT PHASE

Project: ASAP3



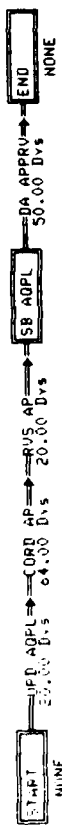


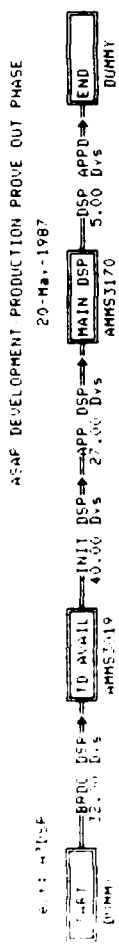


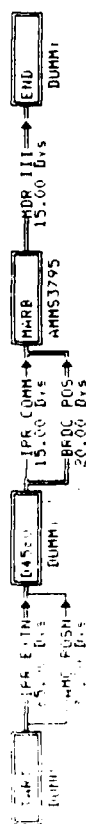
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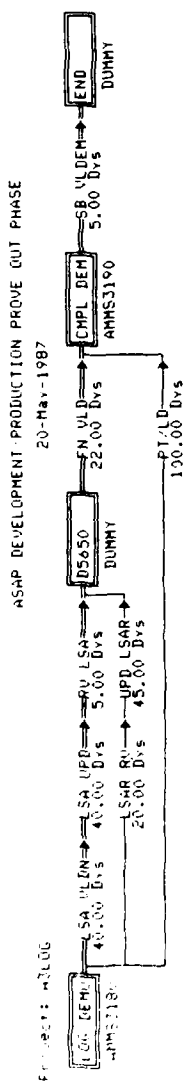
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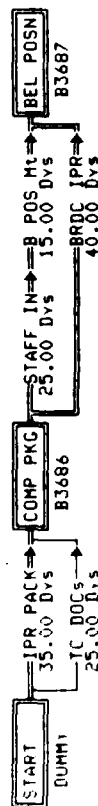




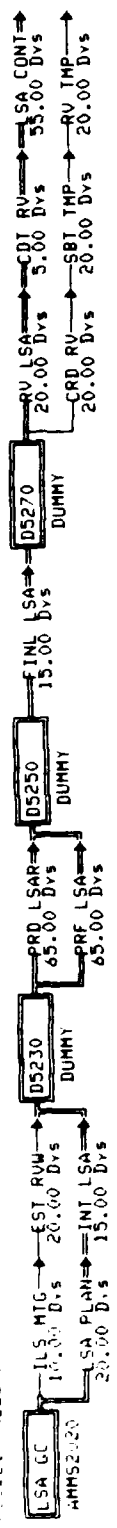
ASAP DEVELOPMENT/PRODUCTION PROVE OUT PHASE

19-May-1987

Project: A31PR3PR

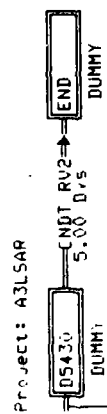


Project: WILSAR
 ASAP DEVELOPMENT/PRODUCTION PROVE OUT PHASE
 20-May-1987
 Page 1



ASAP DEVELOPMENT/PRODUCTION PROVE OUT PHASE

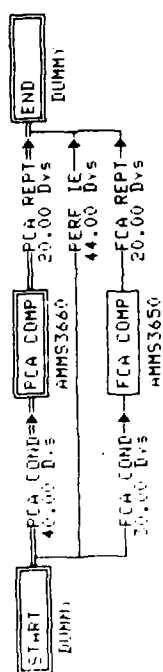
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ASAP DEVELOPMENT/PRODUCTION PROVE OUT PHASE

20-May-1987

Project: A2FC4FCA



ASAP DEVELOPMENT/PRODUCTION PROVE OUT PHASE

19-May-1987

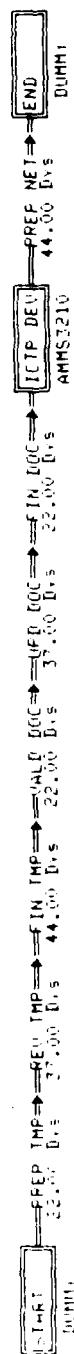
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ASAP DEVELOPMENT PRODUCTION FROM QUT PHASE

19-MAY-1987

PROJECT WITHING

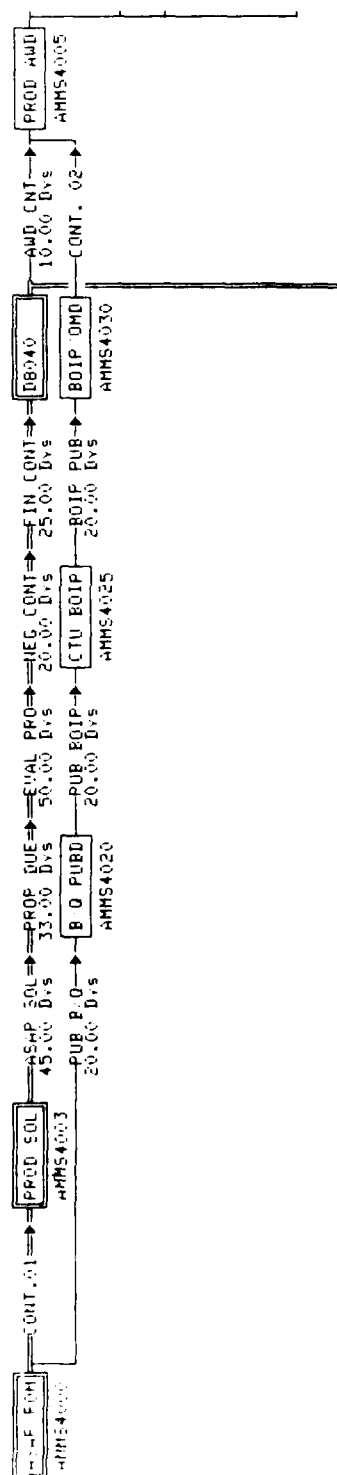


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PRODUCTION AND DEPLOYMENT

MSRP PRODUCTION AND DEPLOYMENT PHASE

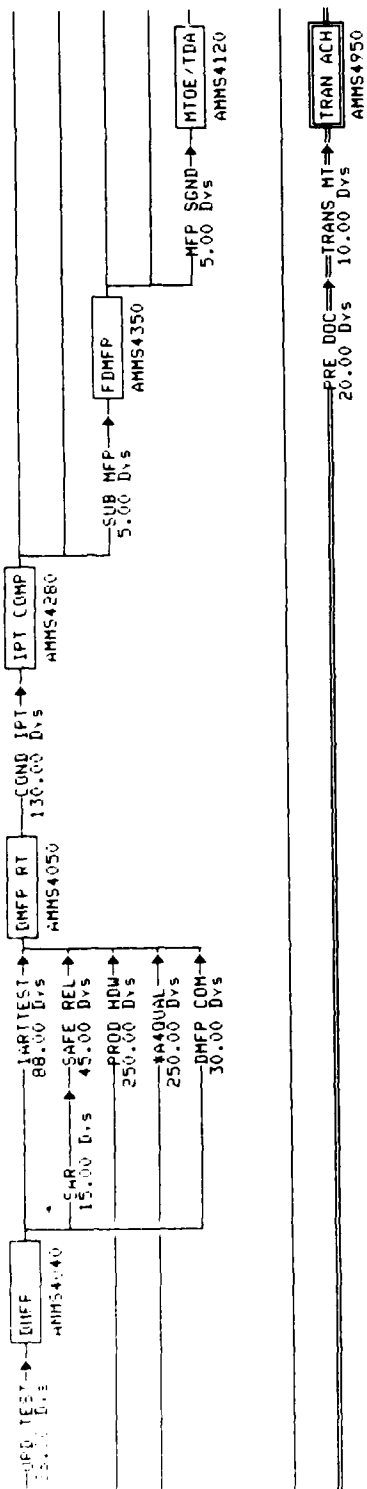
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Page 1

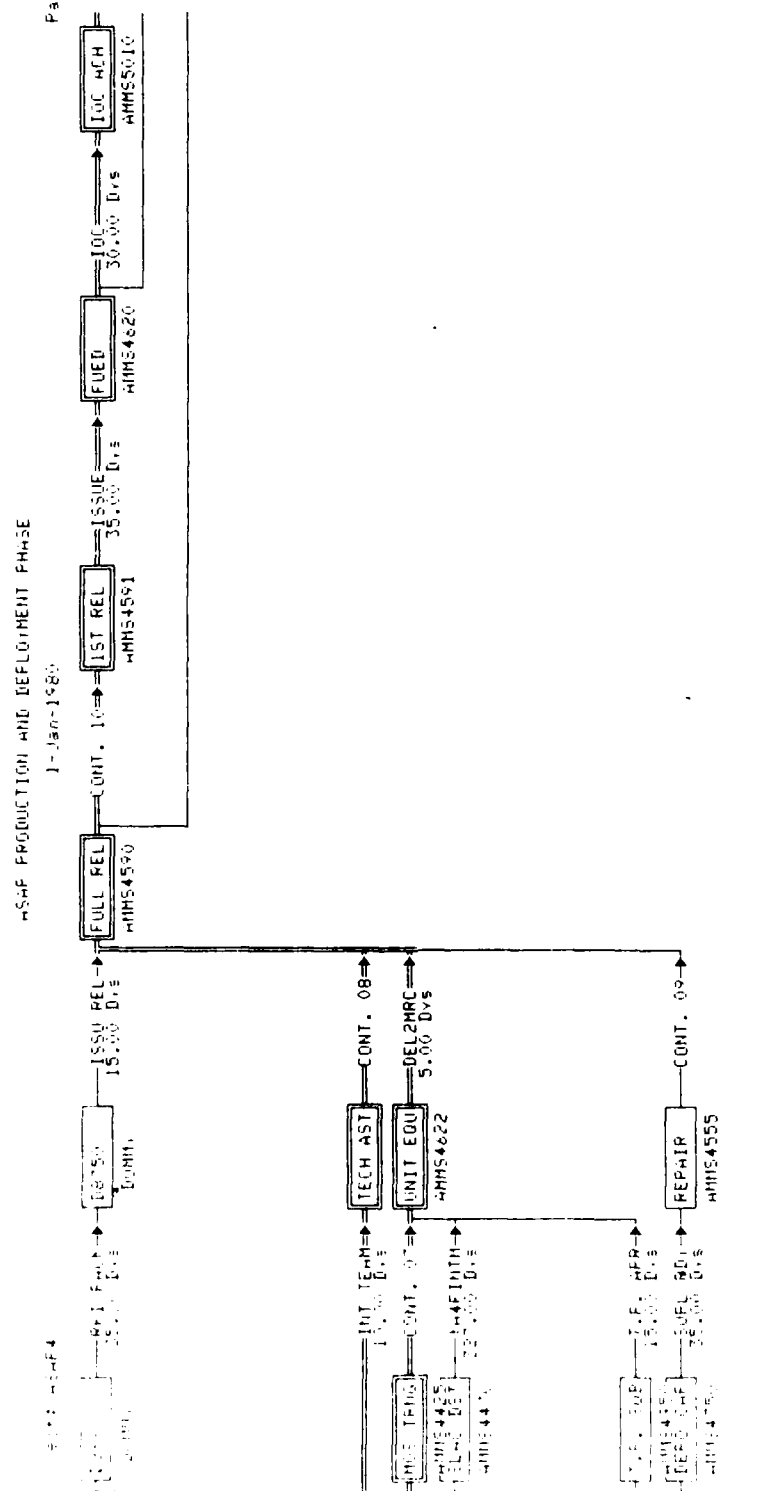


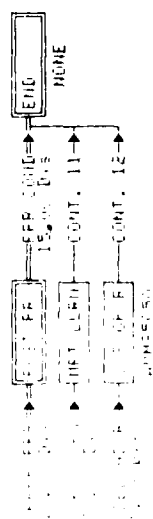
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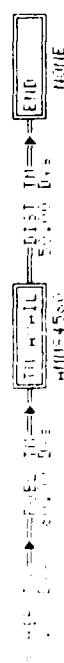






REF PRODUCTION AND DEPLETION PHASE

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PHASE PRODUCTION AND DEPLOYMENT PHASE

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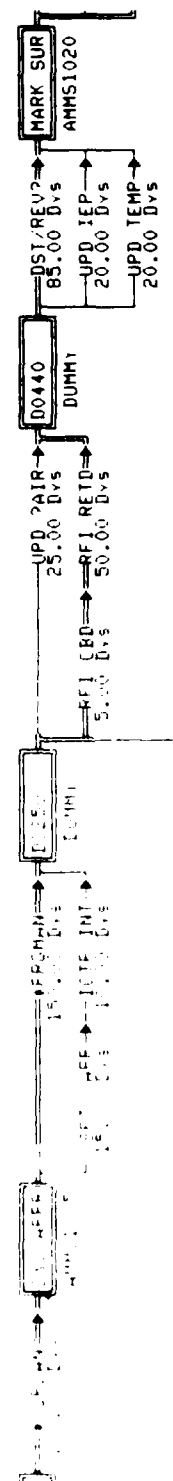
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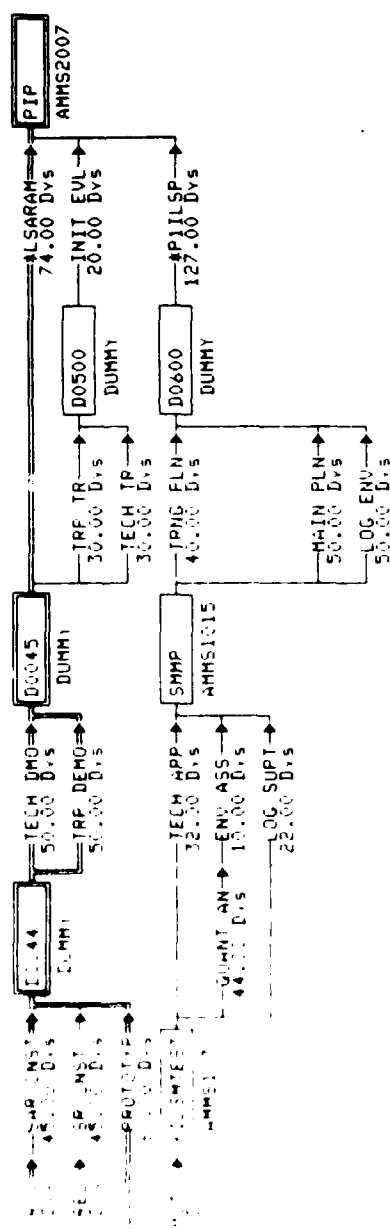
PHASE I
PIP TEMPLATE

PRODUCT IMPROVEMENT PROGRAM PHASE I

Page 1



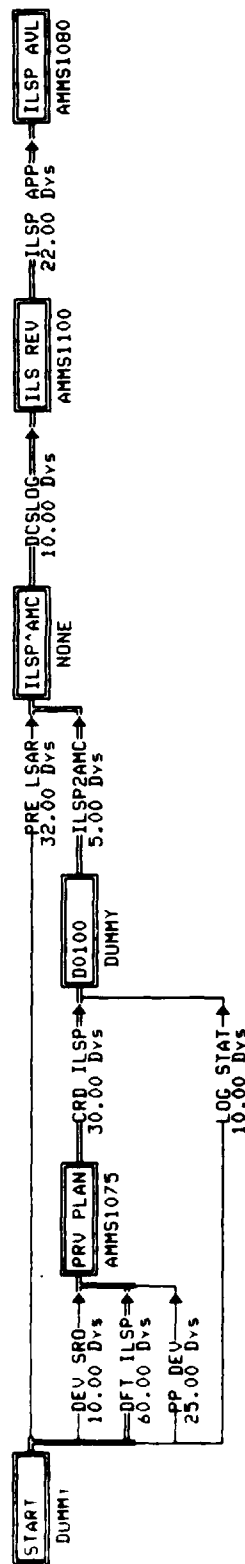
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PRODUCT IMPROVEMENT PROGRAM PHASE I

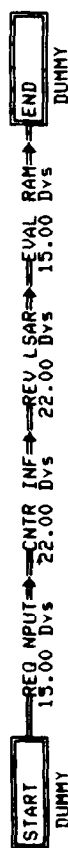
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PRODUCT IMPROVEMENT PROGRAM PHASE I

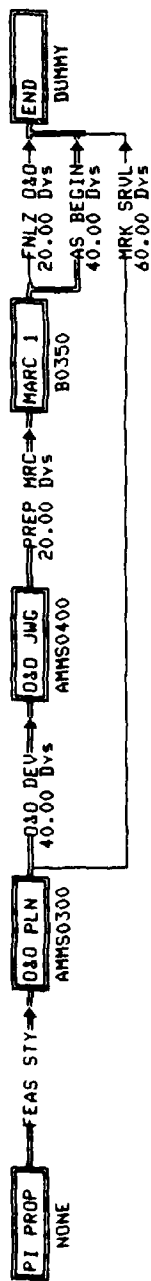
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PRODUCT IMPROVEMENT PROGRAM PHASE I

Project: P100PLAN

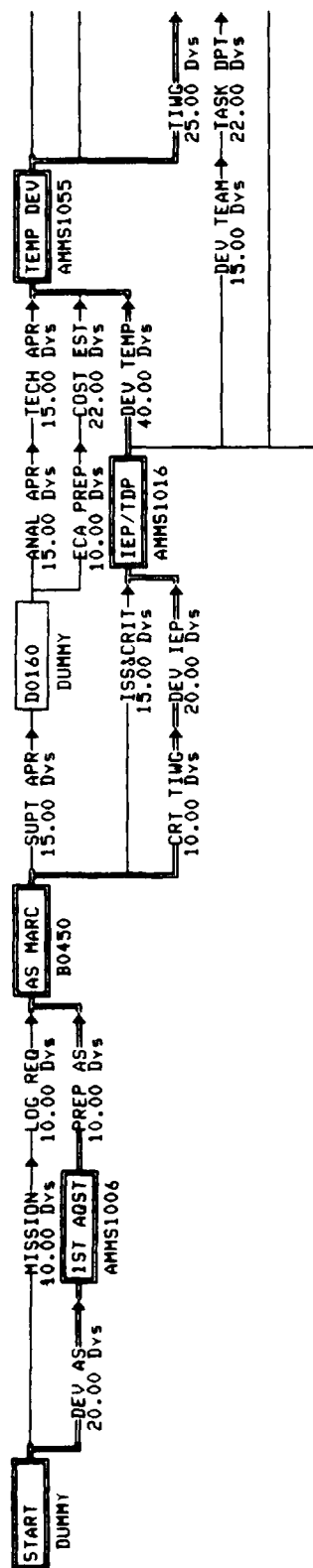
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PRODUCT IMPROVEMENT PROGRAM PHASE I

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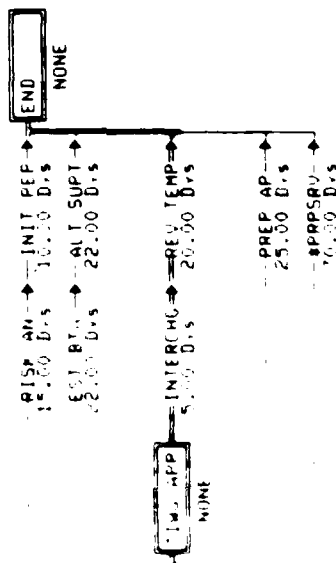
Page 1



PRODUCT IMPROVEMENT PROGRAM PHASE I

Page 2

PHASE I PROGRAM



PHASE II
PIP TEMPLATE

Project: P1P2

START
DUMM

START P1P2
END P1P2

END P1P2



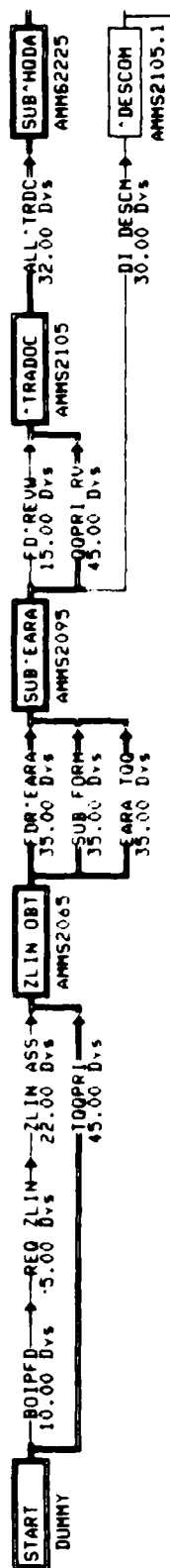
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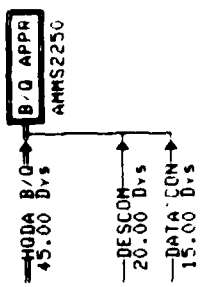
PRODUCT IMPROVEMENT PROGRAM PHASE II

Project: P280IP

Page 1



Project: P2B01P



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    E -- "E = 0" --> STOP1([STOP])
    E -- "E ≠ 0" --> SUBROUTINE[SUBROUTINE]
    SUBROUTINE --> STOP2([STOP])
  
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Project: P21PR



Project: P21PRFN



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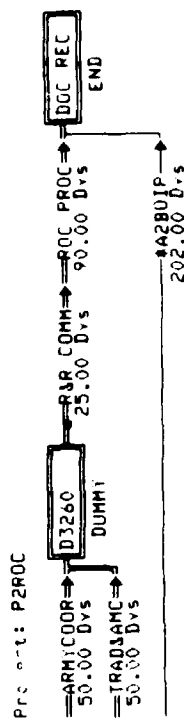
PRODUCT IMPROVEMENT PROGRAM PHASE II

Project: P2ROC

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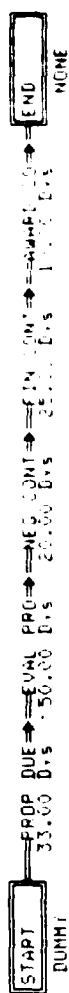
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Project: P2SOLIC

PRD 11 (MERGEMENT) PROGRAM PHASE II

Page 1



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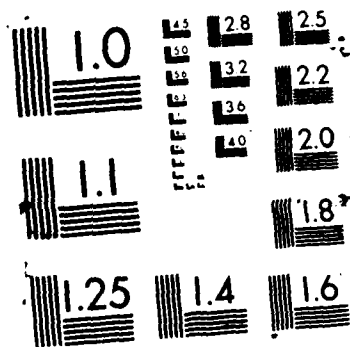
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B B HALSTEAD ET AL. 15 SEP 87 F/G 15/

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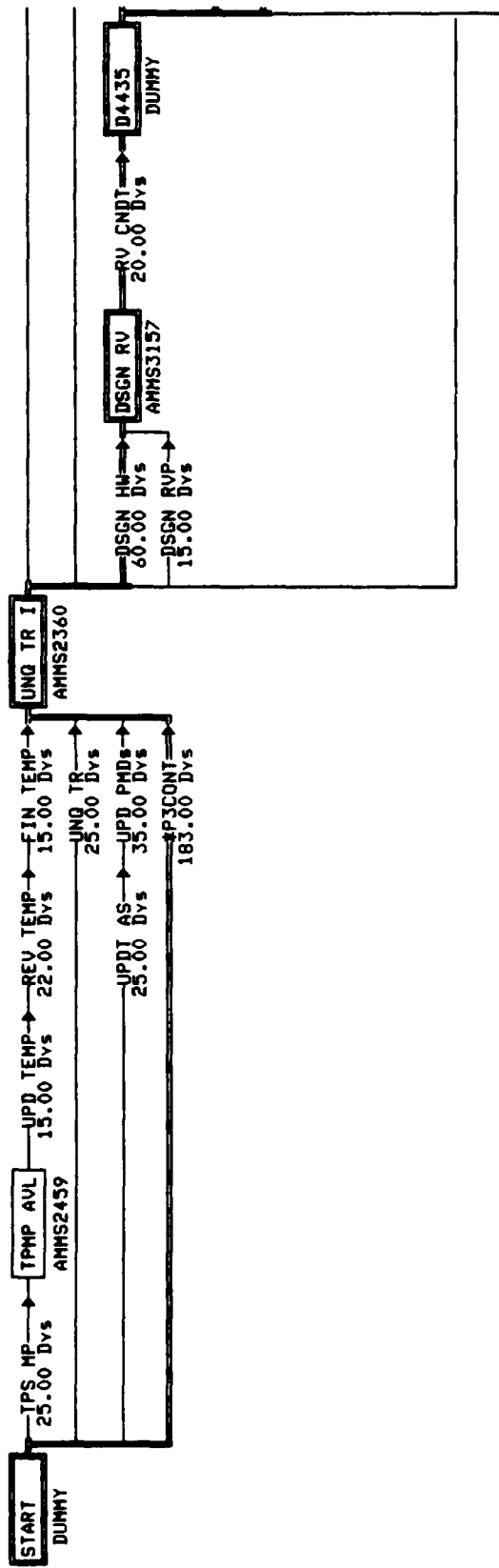


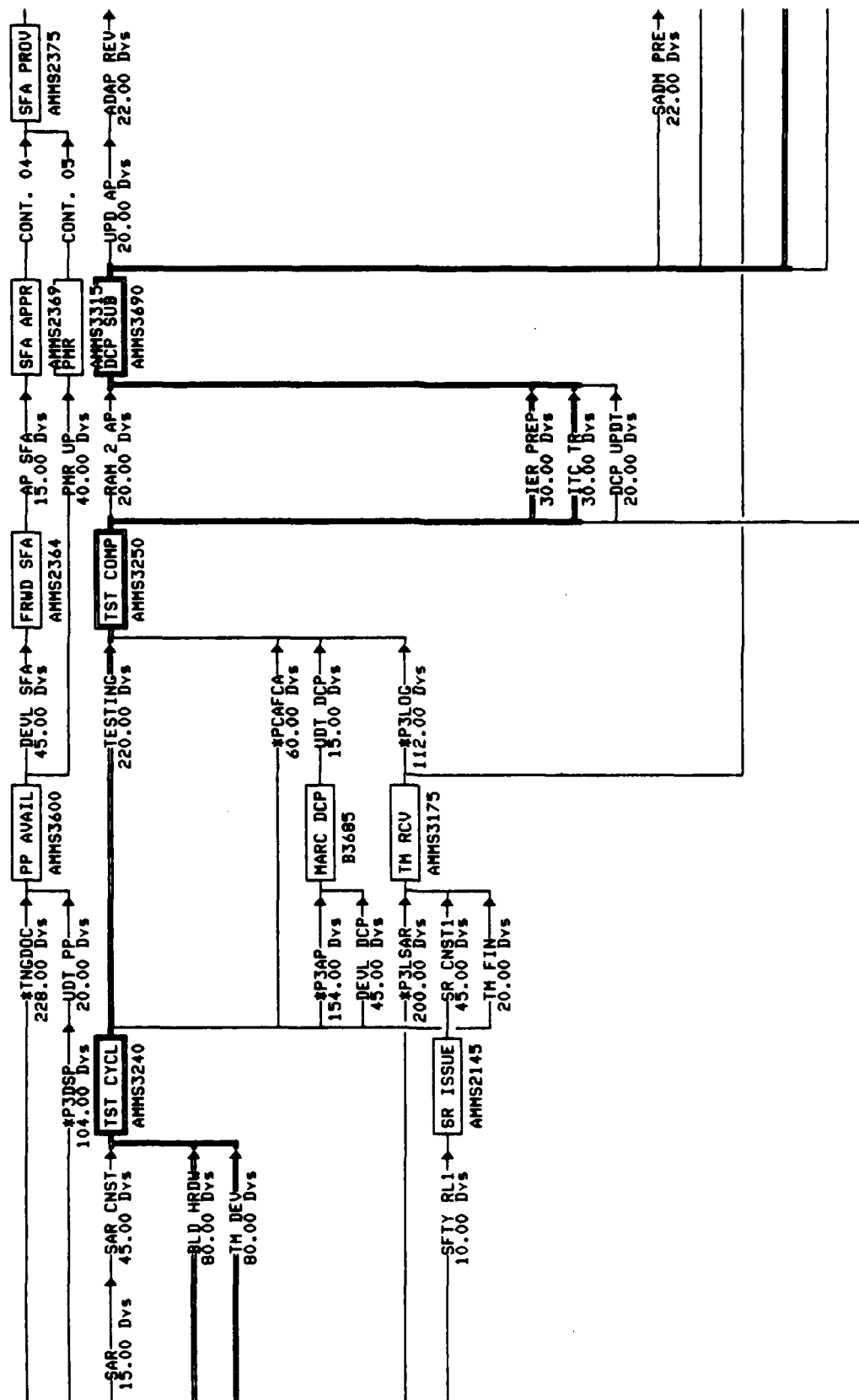
PHASE III
PIP TEMPLATE

PRODUCT IMPROVEMENT PROGRAM PHASE III

Project: PIP3

Page 1

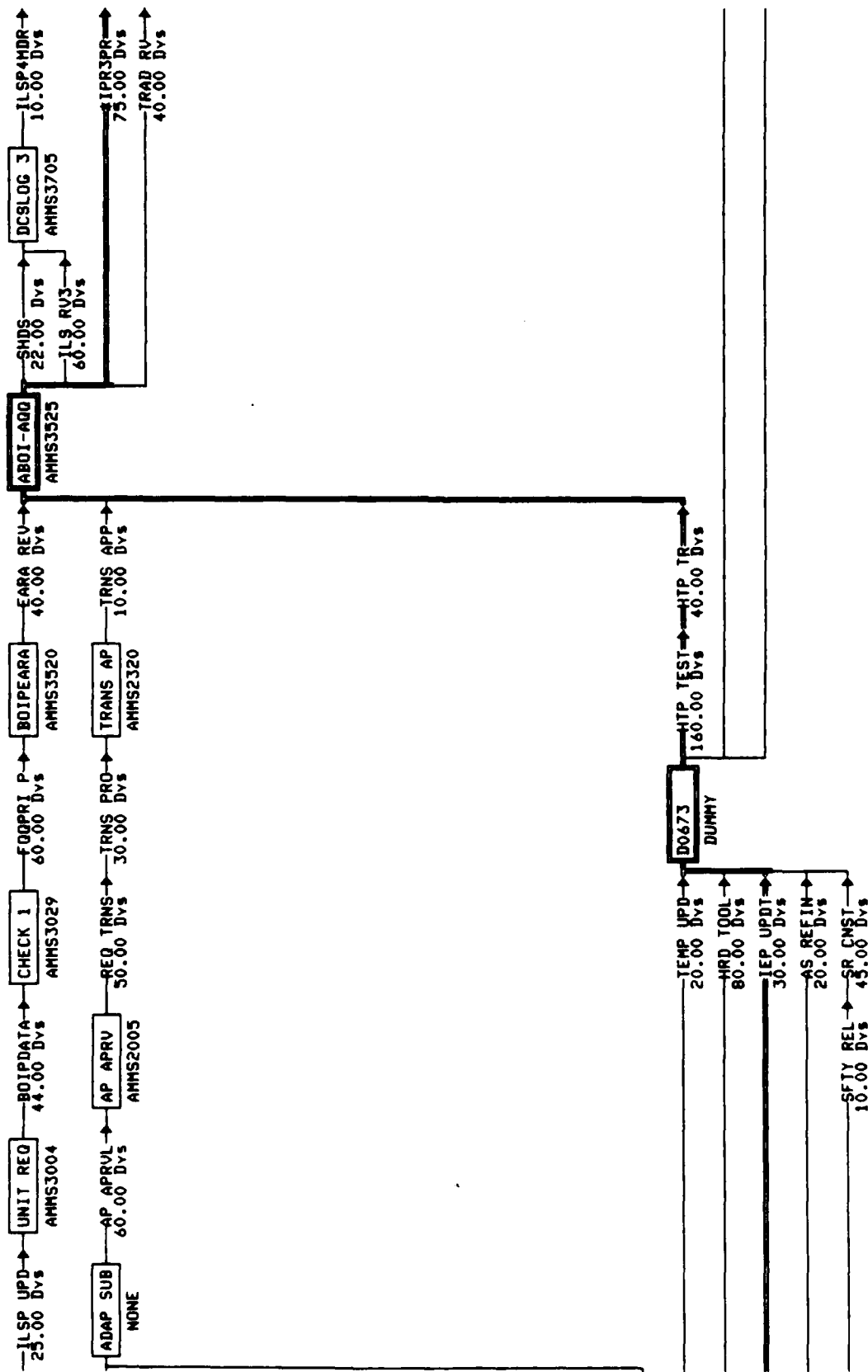




Project: PIP3

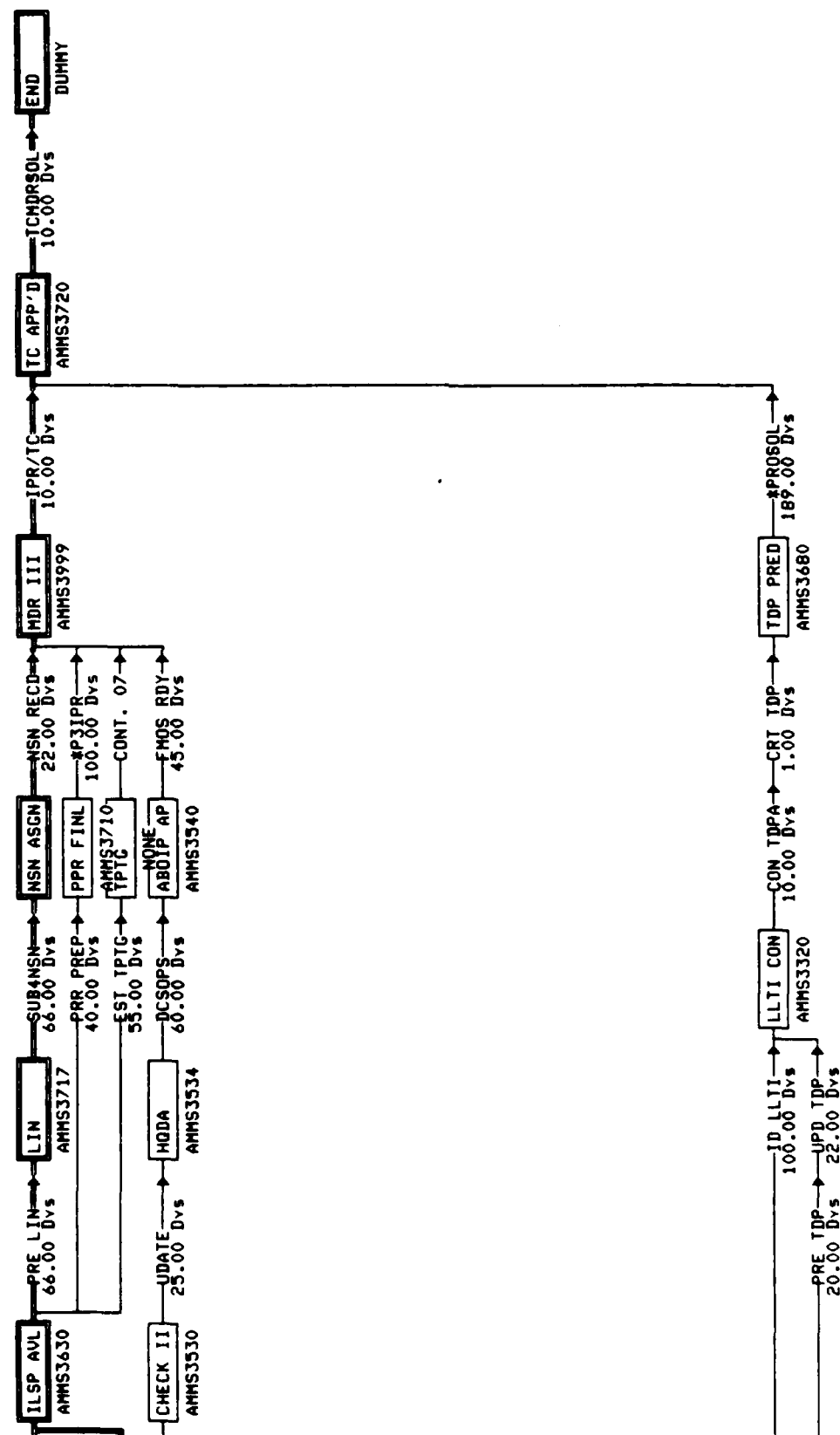
PRODUCT IMPROVEMENT PROGRAM PHASE III

Page 3



PRODUCT IMPROVEMENT PROGRAM PHASE III

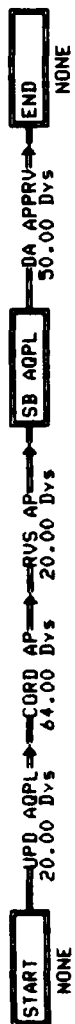
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PRODUCT IMPROVEMENT PROGRAM PHASE III

Page 1

Project: P3AP



Project: PJCONT

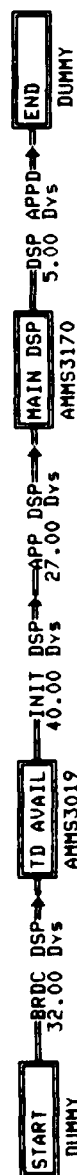
PRODUCT IMPROVEMENT PROGRAM PHASE III

Page 1



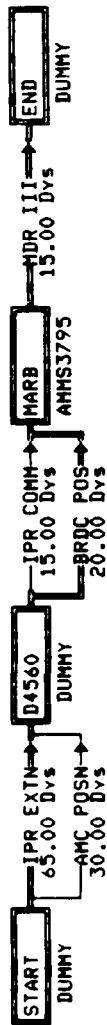
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Project: P3DSP



PRODUCT IMPROVEMENT PROGRAM PHASE III

Project: PJIPR

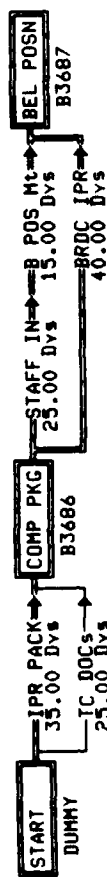


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PRODUCT IMPROVEMENT PROGRAM PHASE III

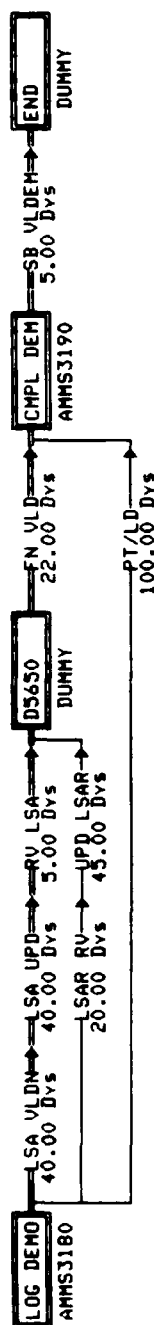
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PRODUCT IMPROVEMENT PROGRAM PHASE III

Project: P3LOG

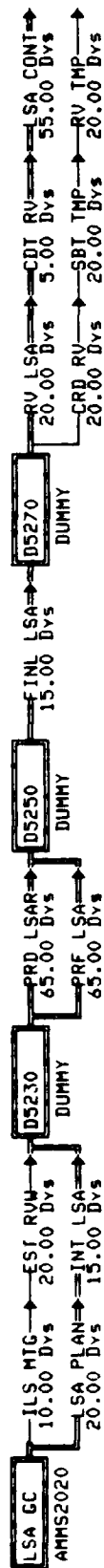
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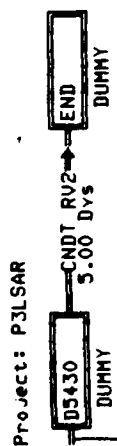
PRODUCT IMPROVEMENT PROGRAM PHASE III

Project: PJLSAR

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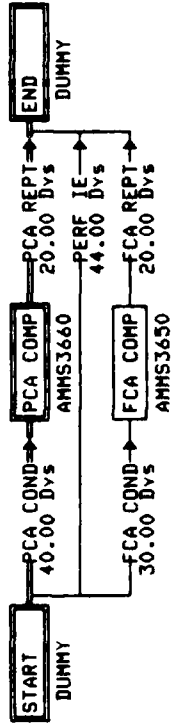
PRODUCT IMPROVEMENT PROGRAM PHASE III



Project: P3PCAFA

PRODUCT IMPROVEMENT PROGRAM PHASE III

Page 1



PRODUCT IMPROVEMENT PROGRAM PHASE III

Page 1

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PRODUCT IMPROVEMENT PROGRAM PHASE III

Project: P3TNGDOC

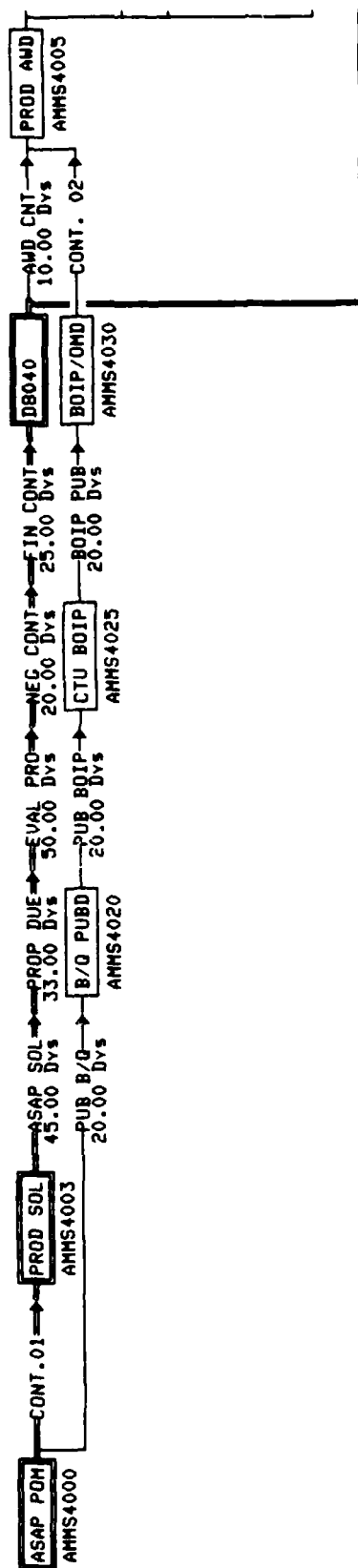


PHASE IV
PIP TEMPLATE

PRODUCT IMPROVEMENT PROGRAM PHASE IV

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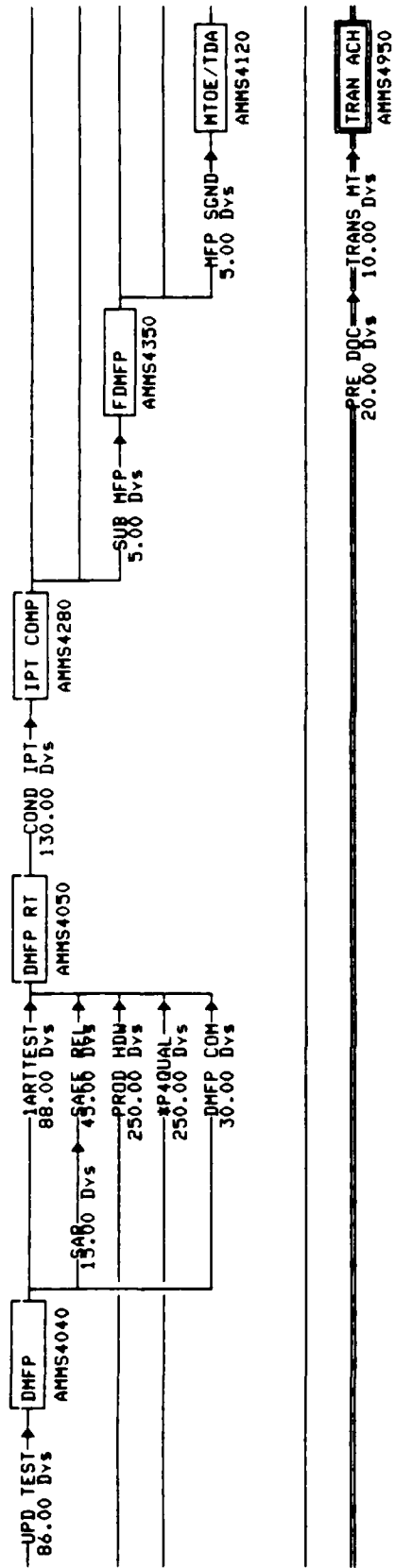
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PRODUCT IMPROVEMENT PROGRAM PHASE IV

Page 2

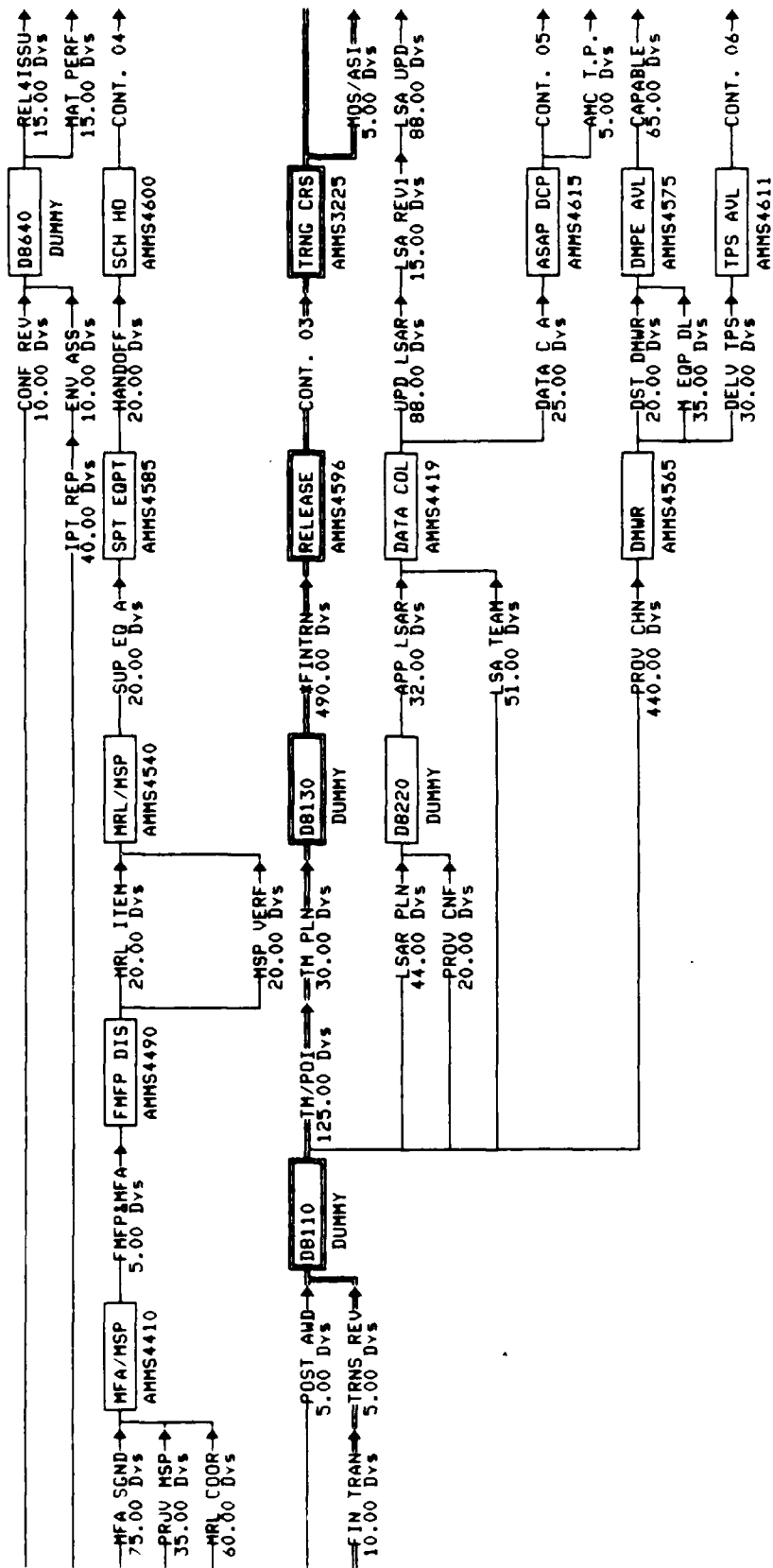
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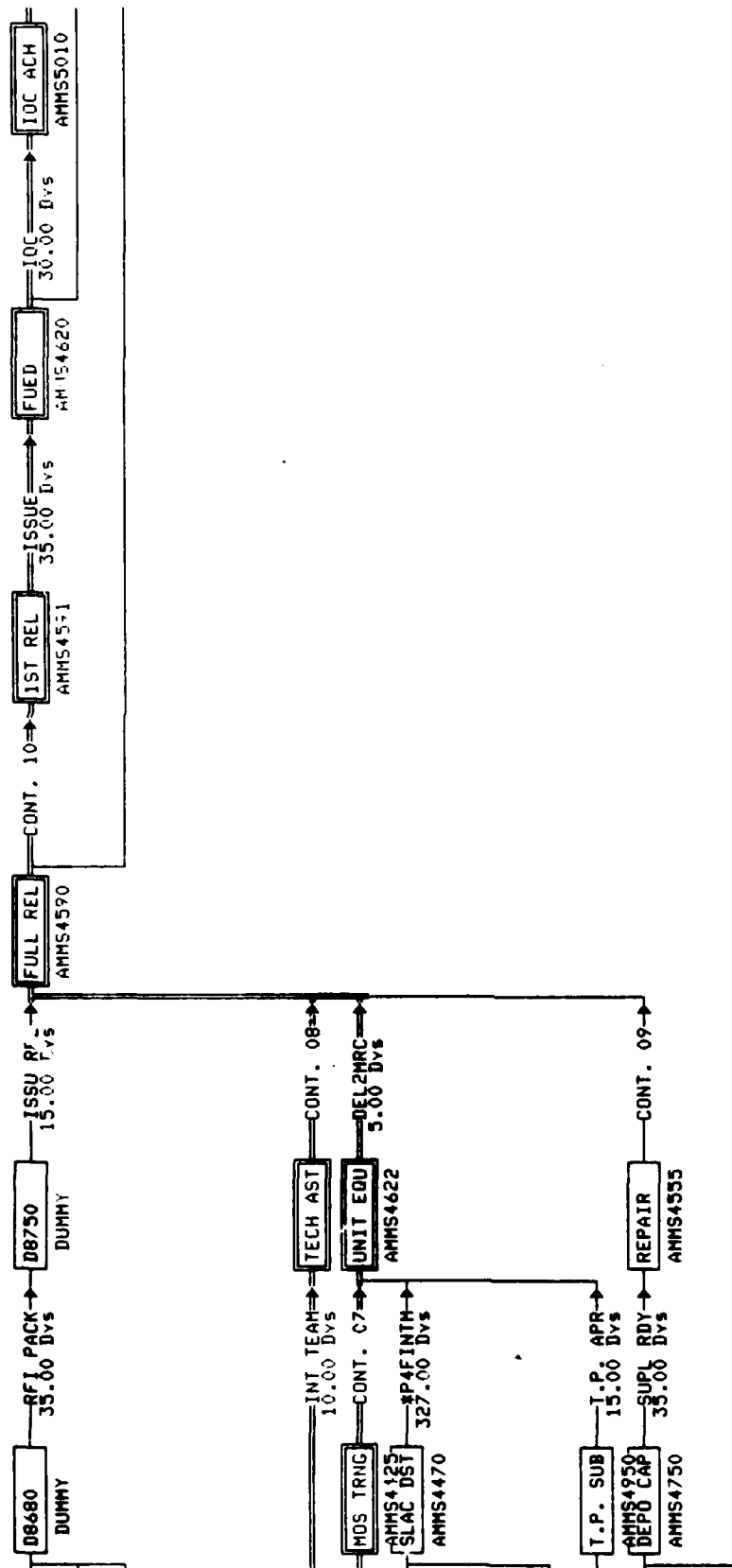
PRODUCT IMPROVEMENT PROGRAM PHASE IV

Project: PIP4

Page 3



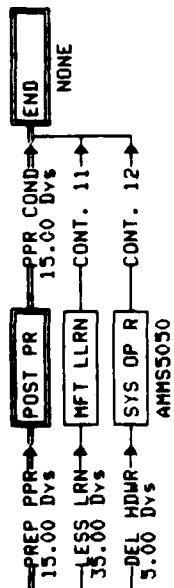
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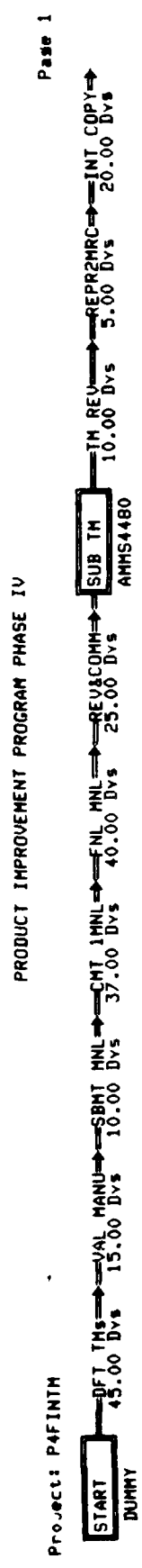


PRODUCT IMPROVEMENT PROGRAM PHASE IV

Page 5

Project: PIP4





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PRODUCT IMPROVEMENT PROGRAM PHASE IV

Project: P4FINTH

Page 2



PRODUCT IMPROVEMENT PROGRAM PHASE IV

Page 1

Project: P4FINTRN



PRODUCT IMPROVEMENT PROGRAM PHASE IV

Project: P4FINTRN



Project: P4FINTRN

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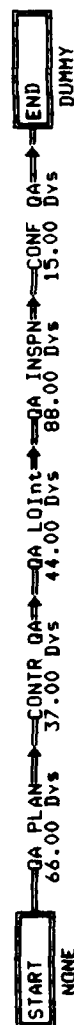
PRODUCT IMPROVEMENT PROGRAM PHASE IV

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Project: P40UAL

PRODUCT IMPROVEMENT PROGRAM PHASE IV

Page 1



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