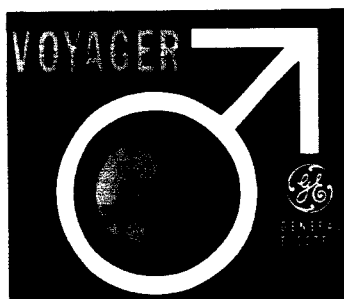
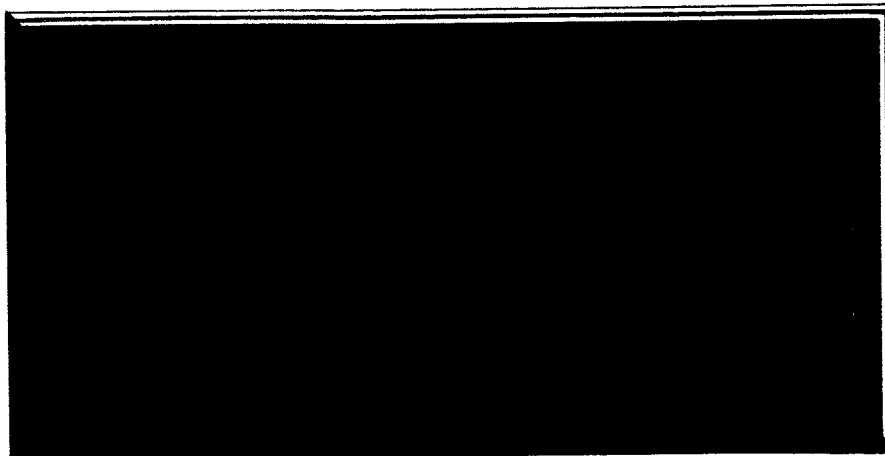


MISSILE AND SPACE DIVISION



PHASE IA, TASK C FINAL REPORT

GPO PRICE \$ _____

CFSTI PRICE(S) \$ _____

Hard copy (HC) 3.00

Microfiche (MF) .65

W 653 July 65

GENERAL  ELECTRIC

FACILITY FORM 608

N67-40420

(ACCESSION NUMBER)

173

(PAGES)

CR-89713

(NASA CR OR TMX OR AD NUMBER)

(THRU)

(CODE)

(CATEGORY)

DOCUMENT NUMBER VOY-CO-FR
28 JULY 1967

VOLUME 5
DATA MANAGEMENT STUDY

APPENDIX I
CONTRACTOR DATA PACKAGE
OVERALL MANAGEMENT(MA), SCHEDULING(SC),
MANNING AND FINANCIAL (MF)

PREPARED BY:

R. GINSBERG
C.H. SELLS
W.S. ROSOWSKI

PROGRAM MANAGEMENT
VOYAGER SPACECRAFT SYSTEM PROJECT

APPROVED BY:

A Frank

A. FRANK, COGNIZANT ENGINEER
DATA MANAGEMENT AND CONTROL TASK
VOYAGER SPACECRAFT SYSTEM PROJECT

PREPARED FOR

JET PROPULSION LABORATORY
CALIFORNIA INSTITUTE OF TECHNOLOGY
4800 OAK GROVE DRIVE
PASADENA, CALIFORNIA

UNDER JPL CONTRACT No. 951112

GENERAL  ELECTRIC

MISSILE AND SPACE DIVISION
Valley Forge Space Technology Center
P. O. Box 8555 • Philadelphia, Penna. 19101

TABLE OF CONTENTS

Section	Page
1 INTRODUCTION.	1-1
2 DATA ITEM LIST/USER MATRIX.	2-1
3 USER FLOW DIAGRAMS	3-1
4 DATA REQUIREMENT DESCRIPTIONS (DRD'S)	4-1
5 DOCUMENTATION RELATIONSHIP TREES	5-1
6 DATA ITEM PHASING/FREQUENCY	6-1

INTRODUCTION

This appendix presents the Contractor Data Package (Data Item Matrix, Data Requirement Descriptions, User Flow Diagram, Document Relationship Tree, and Frequency and Phasing Charts) for overall Management (MA), Scheduling (SC), and Manning and Financial, which are defined as follows:

- a. Overall Management. These data include those required to plan, review, and control Voyager activities from an overall management standpoint.
- b. Scheduling. These data define and specify all major milestones, key events and schedules. PERT and SARP documents are included.
- c. Manning and Financial. These data include those used to plan, review, control, and report manpower and financial resources in support of Voyager.

The complete list of Contractor Data Package appendixes is as follows:

- Appendix A - Technical Description and System Engineering (SE)
- Appendix B - Planetary Quarantine (PQ)
- Appendix C - Manufacturing (MG)
- Appendix D - Configuration Management (CM)
- Appendix E - Quality Assurance (QA)
- Appendix F - Test (TE) and Mission Operations (MP)
- Appendix G - Reliability Assurance (RA)
- Appendix H - Logistics and Support (LS)
- Appendix I - Overall Management (MA); Scheduling (SC); and Manning and Financial (MF)
- Appendix J - Procurement and Contracting (PC)
- Appendix K - Data Management (DM)
- Appendix L* - Facilities (FA)
- Appendix M* - Safety (SA)
- Appendix N* - Site Activation for Launch (AL)
- Appendix O* - Science (SI)
- Appendix P* - Related Project Interfaces (RP)
- Appendix Q* - Advanced Missions (AM)

*Appendixes L through Q prepared under Contract NAS7-584.

DATA ITEM NUMBER	DATA ITEM	DESCRIPTION
	1 of 3	
	<u>OVERALL MANAGEMENT</u>	
	<u>DIRECTIVES</u>	
MA-001	*Project Change Notice	In-house communication of customer/GE management direction.
MA-002	*Project Funding Instruction (PFI)	In-house allocation of tasks thru cost account level, effort, schedule, manpower, cost, performing oper
MA-003	Project Policies, Procedures, and Directives	File of policies, procedures, and directives pertain Voyager Project.
MA-004	*Department Policies, Procedures, and Directives	File of policies, proecedures, and directives pertain administration.
	<u>LISTS</u>	
MA-005	List, Priority Action Items	Formal establishment, between customer and GE, c for required actions.
MA-006	*List, Action Items	Detailed action items required to assure meeting of
	<u>PLANS</u>	
MA-007	Plan, Project Implementation	Total project plan comprising all functional and ope
MA-008	Plan, Project Control	Plan for conducting of project control activities inc and reporting of cost, schedule, technical status of
MA-009	Plan, Organization	Defines GE management and operational organizati responsibilities established and maintained to meet

* KEY INFORMAL DATA

DATA ITEM LIST/USER MATRIX

	APPLICABILITY TO FUNCTIONAL USERS AT CONTRACTOR LEVEL															
	SE	PQ	MG	CM	QA	TE	RA	LS	MA	SC	PC	MF	MP	DM	FA	SA
Changes or	U	U	U	U	U	U	U	U	A	U	U	U	U	U	U	U
Identifies technical information, etc.	U	U	U	U	U	U	U	U	A	U	U	R	U	U	U	U
Responsible for conducting of	U	U	U	U	U	U	U	U	PM	U	U	U	U	U	U	U
Responsible for company	U	U	U	U	U	U	U	U	PM	U	U	U	U	U	U	U
Establish project priorities	U	U	U	U	U	U	U	U	PM	U	U	U	U	U	U	U
Establish subtask milestones.	U	U	U	U	U	U	U	U	A	U	R	U	U	U	U	U
Developing plans.	U	U	U	U	U	U	U	U	PM	U	U	U	U	U	U	U
Responsible for planning, monitoring, and all project elements.	U	U	U	U	U	U	U	U	PM	R	U	R	U	U	U	U
Responsible for personnel, and project objectives.	U	U	U	U	U	U	U	U	PM	U	U	R	U	U	U	U

U - USE

R - REVIEW AUTHORITY

A - APPROVAL AUTHORITY

PM - PROJECT MANAGER APPROVAL

				APPLICABILITY AT SUBCONTRACTOR/VENDOR/SUPPLIER LEVELS						APPLICABILITY TO PROJECT BOARDS										
AL	SI	RP	AM	PRINCIPAL SUB-CONTRACTORS	MAJOR SUB-CONTRACTORS	KEY SUBCON AND VENDORS	OTHER VENDORS	KEY SUPPLIERS	KEY SUBSUPPLIERS	CONFIGURATION CONTROL	CONFIGURATION MANAGEMENT	DATA REVIEW	DESIGN REVIEW	FAILURE REVIEW	INTEGRATED SAFETY	INTEGRATED TEST	MAKE OR BUY	MATERIAL REVIEW	SOURCE EVALUATION	SOURCE SELECTION
-	U	-	U	NA	NA	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-
-	U	-	U	NA	NA	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-
-	U	-	U	(S)	(S)	(S)	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-
-	U	-	U	NA	NA	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-
-	U	-	U	S	S	(S)	NA	(S)	(S)	-	-	-	-	-	-	-	-	-	-	-
-	U	-	U	NA	NA	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-
U	U	-	U	S	(S)	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-
U	U	-	U	S	(S)	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-
U	U	-	U	S	(S)	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-

C - PREPARED BY CONTRACTOR S - PREPARED BY SUBCONTRACTOR/VENDOR/SUPPLIER () - OPTIONAL APPLICATION NA - NOT APPLICABLE

DATA ITEM NUMBER	DATA ITEM	DESCRIPTION
	2 of 3	
	<u>OVERALL MANAGEMENT</u>	
	<u>PLANS</u> (Cont'd)	
MA-010	Plan, Project Communications	Defines approach to assure rapid and accurate formal communication with GE and across customer and subcontractors.
MA-011	Plan, Security	Defines plan for meeting both government and industrial security requirements.
MA-012	Plan, Facility	
MA-012	Plan, Facility	Defines total facility requirements and the plan to meet them in order to meet spacecraft contractor project objectives.
MA-025	Plan, Contingency Operation	Plan for contingency project operations in the event of a major disaster (e.g., serious fire, earthquake.)
MA-013	Report, Final Project	Final report prepared at completion of work summarizing accomplishment under the contract.
MA-014	Report, Project Review	Report summarizing activities and results of periodic project reviews.
MA-015	Report, Project Problem/Action (Red Flag)	Communication alerting customer and GE project manager of serious problems (with proposed solutions) that will impede progress unless resolving action is taken promptly.
MA-016	Report, Project Progress (Monthly)	Provides monthly documentation for customer information on significant project activity during the reporting period.
MA-017	Report, Project Review Schedule and Agenda	Used to obtain customer concurrence on dates and formal project review meetings.
MA-018	Report, Film	Film report covering overall program status for the reporting period.
MA-019	Report, Quarterly, Written	Formal documentation of overall project status for quarterly summation of project progress (from the "Quarterly Reports").

* KEY INFORMAL DATA

DATA ITEM LIST/USER MATRIX

	APPLICABILITY TO FUNCTIONAL USERS AT CONTRACTOR LEVEL															
	SE	PQ	MG	CM	QA	TE	RA	LS	MA	SC	PC	MF	MP	DM	FA	SA
al and informal com- ntractor interfaces.	U	U	U	U	U	U	U	U	PM	U	U	R	U	R	-	-
trial security requirements.	U	U	U	U	U	U	U	U	PM	U	R	U	U	U	U	U
	U	U	U	U	U	U	U	U	A	U	R	U	U	U	R	U
satisfy them ctives.	-	-	U	-	-	U	-	-	PM	U	U	U	-	-	U	U
t of a disaster																
arizing total	U	U	U	U	U	U	U	U	A	U	U	U	U	U	U	-
dic project reviews.	U	U	U	U	U	U	U	U	A	U	U	U	U	U	U	-
management of l delay project	U	U	U	U	U	U	U	U	PM	R	R	U	U	U	U	
rmation of all iod.	U	U	U	U	U	U	U	U	PM	R	R	U	U	U	-	-
subjects for	U	U	U	U	U	U	U	U	PM	R	R	U	U	U	-	U
e specified period.	-	-	-	-	-	-	-	-	A	-	-	-	-	-	-	-
the period. A "Project Progress	U	U	U	U	U	U	U	U	PM	R	R	U	U	U	U	-

U - USE R - REVIEW AUTHORITY A - APPROVAL AUTHORITY PM - PROJECT MANAGER APPROVAL

2-4-1

				APPLICABILITY AT SUBCONTRACTOR/VENDOR/SUPPLIER LEVELS							APPLICABILITY TO PROJECT BOARDS										
AL	SI	RP	AM	PRINCIPAL SUB-CONTRACTORS	MAJOR SUB-CONTRACTORS	KEY SUBCON AND VENDORS	OTHER VENDORS	KEY SUPPLIERS	KEY SUBSUPPLIERS	CONFIGURATION CONTROL	CONFIGURATION MANAGEMENT	DATA REVIEW	DESIGN REVIEW	FAILURE REVIEW	INTEGRATED SAFETY	INTEGRATED TEST	MAKE OR BUY	MATERIAL REVIEW	SOURCE EVALUATION	SOURCE SELECTION	
-	U	-	U	C	C	C	(C)	NA	NA	-	-	-	-	-	-	-	-	-	-	-	
U	U	-	U	(S)	(S)	NA	NA	(S)	NA	-	-	-	-	-	-	-	-	-	-	-	
-	U	-	U	S	S	NA	NA	(S)	NA	-	-	-	-	-	-	-	-	-	-	-	
U	-	-	-	S	S	NA	NA	NA	NA	-	-	-	-	-	-	U	-	-	-	-	
-	U	-	U	S	S	(S)	NA	(S)	NA	-	-	-	-	-	-	-	-	-	-	-	
-	U	-	U	S	(S)	(S)	NA	(S)	NA	-	-	-	-	-	-	-	-	-	-	-	
U	U	-	U	S	S	S	(S)	(S)	(S)	-	-	-	-	-	-	-	-	-	-	-	
U	U	-	U	S	S	(S)	(S)	(S)	(S)	-	-	-	-	-	-	-	-	-	-	-	
-	U	-	U	S	S	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	(S)	(S)	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	
U	U	-	U	(S)	(S)	(S)	NA	(S)	NA	-	-	-	-	-	-	-	-	-	-	-	

C - PREPARED BY CONTRACTOR

S - PREPARED BY SUBCONTRACTOR/VENDOR/SUPPLIER

() - OPTIONAL APPLICATION

NA - NOT APPLICABLE

2-4-2

~~2-4-2~~

DATA ITEM NUMBER	DATA ITEM	DESCRIPTION
	<u>OVERALL MANAGEMENT</u>	
	<u>REPORTS (Cont'd)</u>	
MA-020	Report, Resources Requirements/ Availability	Comparison report of resource requirements versus availability and possible solutions.
MA-021	Report, Weekly Activity	TWX report to customer of week's accomplishments and significant project action items.
MA-022	Report, Schedule/Cost Coupling Summary (Monthly)	Summary at the task and subtask level.
MA-023	*Report, Schedule/Cost Coupling	Details at the work package and cost account level.
MA-024	Report, Contact	Documentation of significant meetings, conversations, and communications with customer. Functional approach as appropriate.

* KEY INFORMAL DATA

DATA ITEM LIST/USER MATRIX

APPLICABILITY TO FUNCTIONAL USERS AT CONTRACTOR LEVEL

	APPLICABILITY TO FUNCTIONAL USERS AT CONTRACTOR LEVEL																
	SE	PQ	MG	CM	QA	TE	RA	LS	MA	SC	PC	MF	MP	DM	FA	SA	
SUS	U	-	U	-	U	U	-	U	PM	R	R	U	-	-	R	-	
nts and other	U	U	U	U	U	U	U	U	PM	R	R	U	U	U	-	-	
	U	-	U	-	U	U	-	-	PM	R	R	R	-	-	-	-	
ls.	U	U	U	U	U	U	U	U	A	R	R	R	U	U	-	-	
ions, oval (A)	-	-	-	-	-	-	-	-	U	-	U	-	-	U	-	-	

U - USE R - REVIEW AUTHORITY A - APPROVAL AUTHORITY PM - PROJECT MANAGER APPROVAL

				APPLICABILITY AT SUBCONTRACTOR/VENDOR/SUPPLIER LEVELS						APPLICABILITY TO PROJECT BOARDS										
AL	SI	RP	AM	PRINCIPAL SUB-CONTRACTORS	MAJOR SUB-CONTRACTORS	KEY SUBCON AND VENDORS	OTHER VENDORS	KEY SUPPLIERS	KEY SUBSUPPLIERS	CONFIGURATION CONTROL	CONFIGURATION MANAGEMENT	DATA REVIEW	DESIGN REVIEW	FAILURE REVIEW	INTEGRATED SAFETY	INTEGRATED TEST	MAKE OR BUY	MATERIAL REVIEW	SOURCE EVALUATION	SOURCE SELECTION
-	-	-	-	S	S	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-
U	U	-	U	S	S	(S)	NA	(S)	NA	-	-	-	-	-	-	-	-	-	-	-
U	-	-	U	S	(S)	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-
-	U	-	U	NA	NA	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-
U	-	U	-	S	S	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-

C - PREPARED BY CONTRACTOR S - PREPARED BY SUBCONTRACTOR/VENDOR/SUPPLIER () - OPTIONAL APPLICATION NA - NOT APPLICABLE

2-6-2

~~2-6-2~~

DATA ITEM NUMBER	DATA ITEM 1 of 2	DESCRIPTION
	<u>SCHEDULING</u>	
	<u>DIRECTIVES</u>	
SC-001	*Schedule Change Request/Notice	A schedule change notice documents a schedule change that is approved. Until approval, it is a schedule change request for all critical path schedule changes.
	<u>LISTS</u>	
SC-014	*List, Special Schedule Printouts	Lists special-purpose schedules used throughout project obtained through printouts based on milestone and PERT on work package and cost account levels.
	<u>REPORTS</u>	
SC-008	Report, Project Level PERT	Biweekly report giving status of PERT events.
SC-009	Report, Project Level Milestones	Biweekly report indicating status of key milestones
SC-010	Report, Task and Sub-Task Level PERT	Biweekly report giving status of PERT events.
SC-011	Report, Task and Sub-Task Level Milestones	Biweekly report indicating milestone status.
SC-012	*Report, Detail PERT Fragnet Status	Weekly analysis of status.
SC-013	*Report, Work Package and Account Level Milestones	Biweekly analysis of status.

* KEY INFORMAL DATA

DATA ITEM LIST/USER MATRIX

	APPLICABILITY TO FUNCTIONAL USERS AT CONTRACTOR LEVEL																
	SE	PQ	MG	CM	QA	TE	RA	LS	MA	SC	PC	MF	MP	DM	FA	SA	
ange request when latter ge request. Required for	-	-	U	-	-	-	-	-	R	A	R	-	-	-	-	U	
object. Schedules will be ERT reports accumulated	U	U	U	U	U	U	U	U	U	A	U	U	U	R	-	-	
	U	-	U	-	U	U	U	-	R	A	R	U	-	U	-	-	
	U	-	U	-	U	U	U	-	PM	R	R	U	-	U	U	-	
	U	U	U	U	U	U	U	U	U	A	R	U	U	U	-	-	
	U	U	U	U	U	U	U	U	U	A	R	U	U	U	-	-	
	U	U	U	U	U	U	U	U	U	A	U	U	U	U	-	-	
	U	U	U	U	U	U	U	U	U	A	U	U	U	U	-	-	

U - USE R - REVIEW AUTHORITY A - APPROVAL AUTHORITY PM - PROJECT MANAGER APPROVAL

				APPLICABILITY AT SUBCONTRACTOR/VENDOR/SUPPLIER LEVELS					APPLICABILITY TO PROJECT BOARDS											
AL	SI	RP	AM	PRINCIPAL SUB-CONTRACTORS	MAJOR SUB-CONTRACTORS	KEY SUBCON AND VENDORS	OTHER VENDORS	KEY SUPPLIERS	KEY SUBSUPPLIERS	CONFIGURATION CONTROL	CONFIGURATION MANAGEMENT	DATA REVIEW	DESIGN REVIEW	FAILURE REVIEW	INTEGRATED SAFETY	INTEGRATED TEST	MAKE OR BUY	MATERIAL REVIEW	SOURCE EVALUATION	SOURCE SELECTION
-	-	-	-	(S)	(S)	(S)	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-
-	U	-	U	NA	NA	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-
-	U	-	-	(S)	(S)	(S)	NA	(S)	NA	-	-	-	-	-	-	-	-	-	-	-
-	U	-	-	S	S	S	NA	(S)	(S)	-	-	-	-	-	-	-	-	-	-	-
-	U	-	-	(S)	(S)	(S)	NA	(S)	NA	-	-	-	-	-	-	-	-	-	-	-
-	U	-	-	S	S	(S)	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-
-	U	-	-	NA	NA	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-
-	U	-	-	(S)	(S)	(S)	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-

2-8-2



DATA ITEM NUMBER	DATA ITEM 2 of 2 <u>SCHEDULING</u>	DESCRIPTION
	<u>SCHEDULES</u>	
SC-002	Schedule, Project Level (PERT)	A top-level PERT network showing the key spaces and interface milestones. Used for project management & customer interface planning.
SC-003	Schedule, Project Level (Milestone)	A top-level bar chart schedule indicating the key system and interface milestones.
SC-004	Schedule, Task and Sub-Task Level (PERT)	Presentation of all PERT details required to interface with customer level PERT.
SC-005	Schedule, Task and Sub-Task Level (Milestone)	Presentation of all milestone information required to interface with customer level milestones.
SC-006	*Schedule, Detail PERT Fragments	Presents interrelationship of all activities necessary for completion of a given task. Prepared for critical activities.
SC-007	*Schedule, Work Package and Cost Account Level (Milestone)	Detailed milestones for internal control.

* KEY INFORMAL DATA

DATA ITEM LIST/USER MATRIX

	APPLICABILITY TO FUNCTIONAL USERS AT CONTRACTOR LEVEL															
	SE	PQ	MG	CM	QA	TE	RA	LS	MA	SC	PC	MF	MP	DM	FA	SA
raft system ement (GE)	U	-	U	-	U	U	U	-	R	A	R	U	-	U	-	-
pacecraft	U	-	U	-	U	U	U	-	PM	R	R	U	-	U	-	-
face with	U	-	U	U	U	U	U	U	R	A	R	U	U	U	-	-
to interface	U	U	U	U	U	U	U	U	R	A	R	U	U	U	-	-
ry to the com- ivities.	U	U	U	U	U	U	U	U	U	A	U	U	U	U	-	-
	U	U	U	U	U	U	U	U	U	A	U	U	U	U	-	-

U - USE R - REVIEW AUTHORITY A - APPROVAL AUTHORITY PM - PROJECT MANAGER APPROVAL

				APPLICABILITY AT SUBCONTRACTOR/VENDOR/SUPPLIER LEVELS						APPLICABILITY TO PROJECT BOARDS										
AL	SI	RP	AM	PRINCIPAL SUB-CONTRACTORS	MAJOR SUB-CONTRACTORS	KEY SUBCON AND VENDORS	OTHER VENDORS	KEY SUPPLIERS	KEY SUBSUPPLIERS	CONFIGURATION CONTROL	CONFIGURATION MANAGEMENT	DATA REVIEW	DESIGN REVIEW	FAILURE REVIEW	INTEGRATED SAFETY	INTEGRATED TEST	MAKE OR BUY	MATERIAL REVIEW	SOURCE EVALUATION	SOURCE SELECTION
-	U	-	-	S	S	(S)	NA	(S)	NA	-	-	-	-	-	-	-	-	-	-	-
-	U	-	-	S	S	(S)	NA	(S)	(S)	-	-	-	-	-	-	-	-	-	-	-
-	U	-	-	(S)	(S)	(S)	NA	(S)	NA	-	-	-	-	-	-	-	-	-	-	-
-	U	-	-	S	S	(S)	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-
-	U	-	-	NA	NA	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-
-	U	-	-	(S)	(S)	(S)	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-

C - PREPARED BY CONTRACTOR S - PREPARED BY SUBCONTRACTOR/VENDOR/SUPPLIER () - OPTIONAL APPLICATION NA - NOT APPLICABLE

2-10-2

~~20730~~

DATA ITEM NUMBER	DATA ITEM 1 of 1 <u>MANNING AND FINANCIAL</u>	DESCRIPTION
	<u>REPORTS</u>	
MF-001	*Report, Material Commitment	A weekly and monthly report listing new material commitment, progress of commitment, and comparison to plan
MF-002	Report, Contractor Financial Management (Form 533)	
MF-003	Report, Overtime	
MF-004	*Report, Vouchered Hours	Weekly tabular listing(at all WBS levels) of actual labor hours planned and trend data.
MF-005	*Report, Project Financial Performance	Monthly summation (at all WBS levels) of labor and material month ITD, and final costs per CBL, PFI, and technical
MF-006	*Report, Manpower	Weekly tabular listings (at all WBS levels) of actual manpower arrayed against planned and trend data.

* KEY INFORMAL DATA

DATA ITEM LIST/USER MATRIX

	APPLICABILITY TO FUNCTIONAL USERS AT CONTRACTOR LEVEL															
	SE	PQ	MG	CM	QA	TE	RA	LS	MA	SC	PC	MF	MP	DM	FA	SA
ommitments, ata.	U	-	U	-	U	U	U	-	U	-	U	A	-	-	-	-
	-	-	-	-	-	-	-	-	PM	-	R	R	-	-	-	-
	U	-	U	-	U	U	U	-	PM	U	U	R	-	-	-	-
labor hours arrayed against	U	-	U	-	U	U	U	-	U	U	U	A	-	-	-	-
material dollars. Current nical progress rate.	U	-	U	-	U	U	U	-	U	U	U	A	-	-	-	-
equivalent applied	U	-	U	-	U	U	U	-	U	U	U	A	-	-	R	-

U - USE R - REVIEW AUTHORITY A - APPROVAL AUTHORITY PM - PROJECT MANAGER APPROVAL

				APPLICABILITY AT SUBCONTRACTOR/VENDOR/SUPPLIER LEVELS						APPLICABILITY TO PROJECT BOARDS										
AL	SI	RP	AM	PRINCIPAL SUB-CONTRACTORS	MAJOR SUB-CONTRACTORS	KEY SUBCON AND VENDORS	OTHER VENDORS	KEY SUPPLIERS	KEY SUBSUPPLIERS	CONFIGURATION CONTROL	CONFIGURATION MANAGEMENT	DATA REVIEW	DESIGN REVIEW	FAILURE REVIEW	INTEGRATED SAFETY	INTEGRATED TEST	MAKE OR BUY	MATERIAL REVIEW	SOURCE EVALUATION	SOURCE SELECTION
-	-	-	-	S	S	(S)	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	S	S	S	NA	(S)	(S)	-	-	-	-	-	-	-	-	-	-	-
U	-	-	-	S	S	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-
U	-	-	-	S	S	(S)	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	S	S	(S)	NA	(S)	(S)	-	-	-	-	-	-	-	-	-	-	-
U	-	-	-	S	S	(S)	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-

2-12-2

USER FLOW DIAGRAMS

Project Control is viewed here as an essentially procedural function rather than as an evolutionary one. The activities which take place and the data items which are significant are independent of the point in the product development cycle which is considered. For this reason the project control user flow diagrams differ from those representing the other functional areas.

Detailed drawings and a summary drawing appear on the following pages of this section. The detailed drawings show the periodic activities of the reporting and control loop. Actions are associated with individuals (Cognizant Engineer) and organizations (Functional Operations, Finance, Project Control). The data items required for decision making and for record are indicated.

The summary drawing depicts a view of the process, which has been simplified by aggregating closely related activities.

Overall Management (MA), Scheduling (SC), Manning and Financial (MF) data items have been included in the Project Control user flow diagram shown in this section.

Project Control User Flow Diagrams

Figure Number

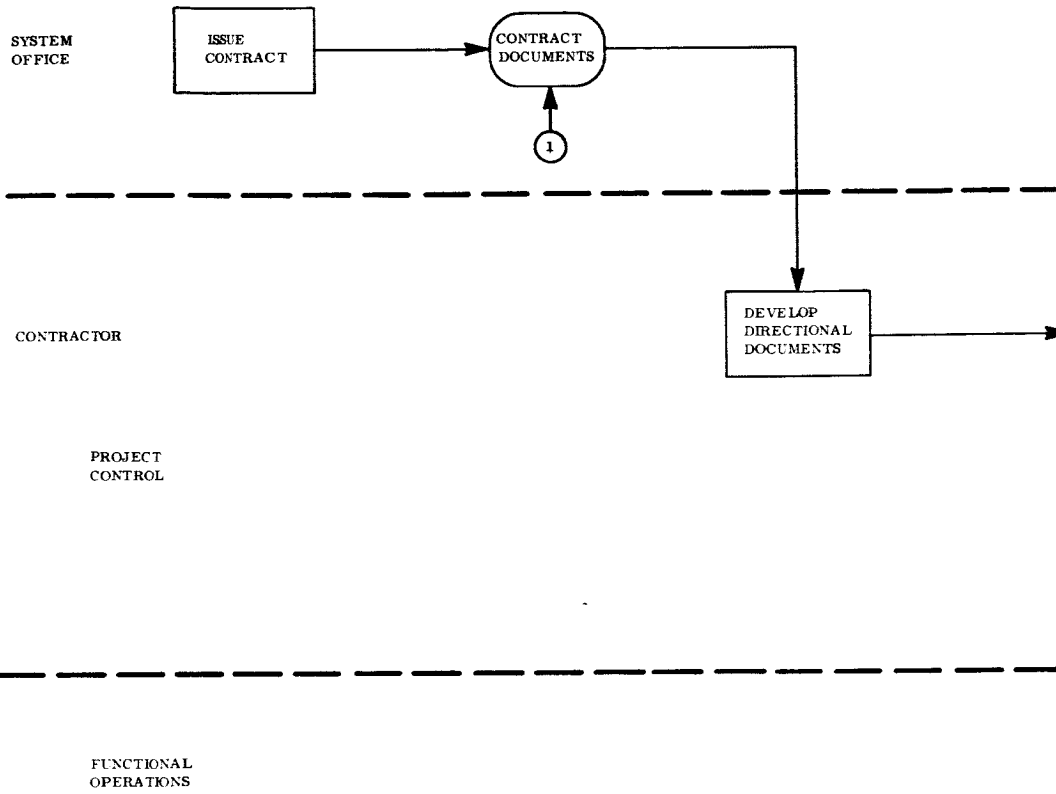
Title

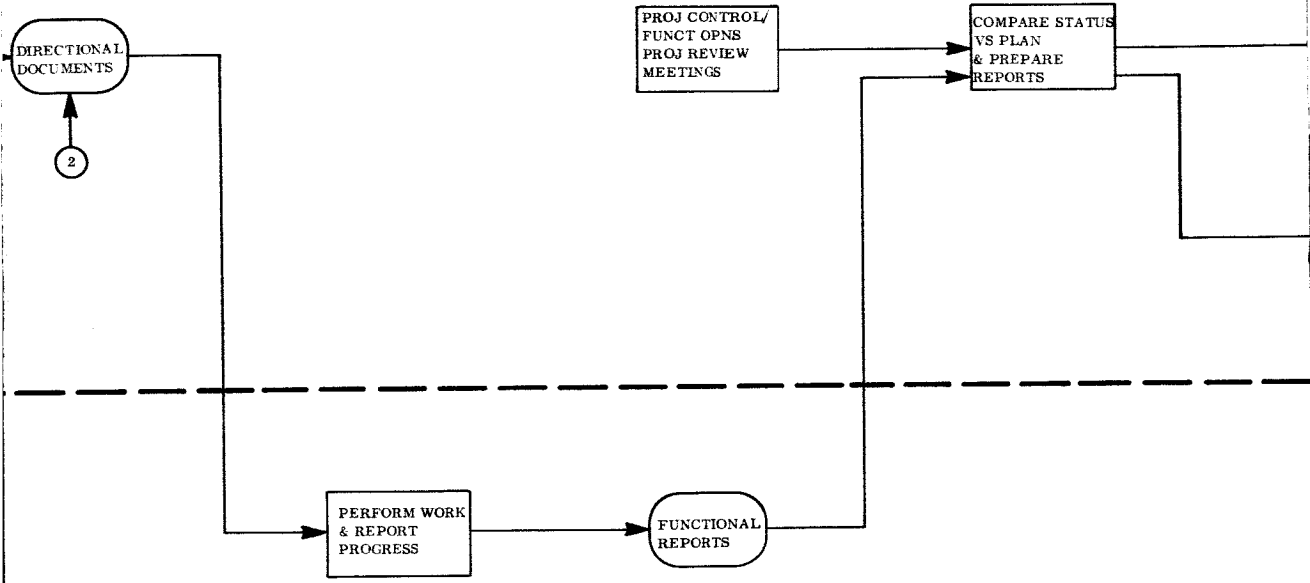
I-1

Project Control User Flow Diagram - Summary

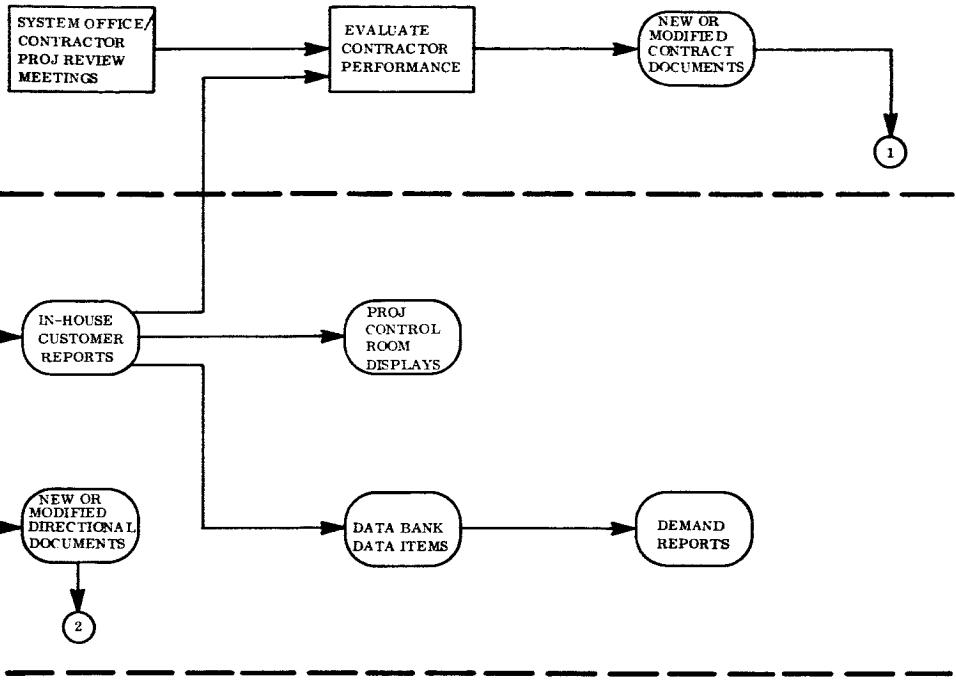
I-2

Project Control User Flow Diagram (4 sheets)





LEGEND:

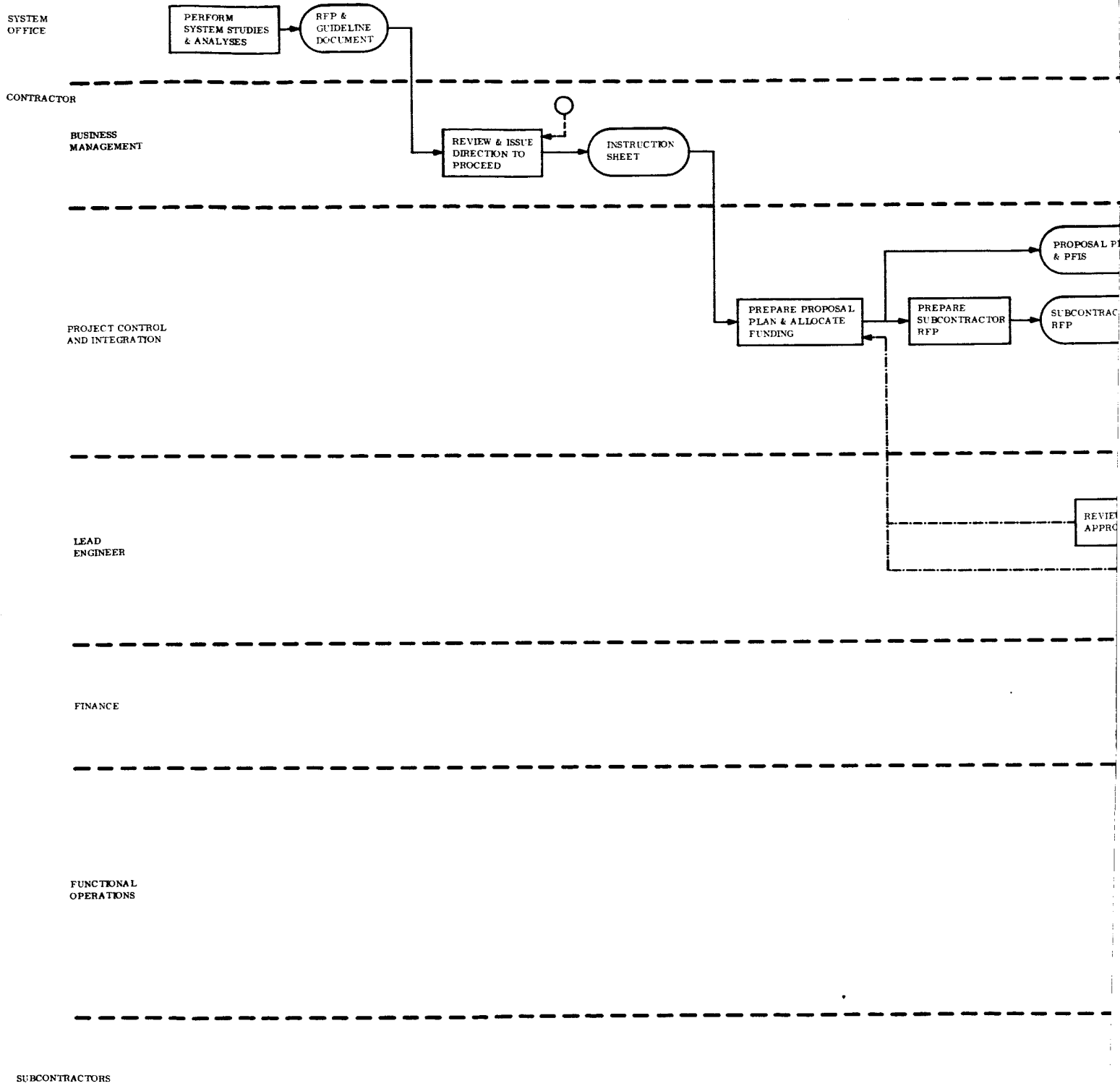


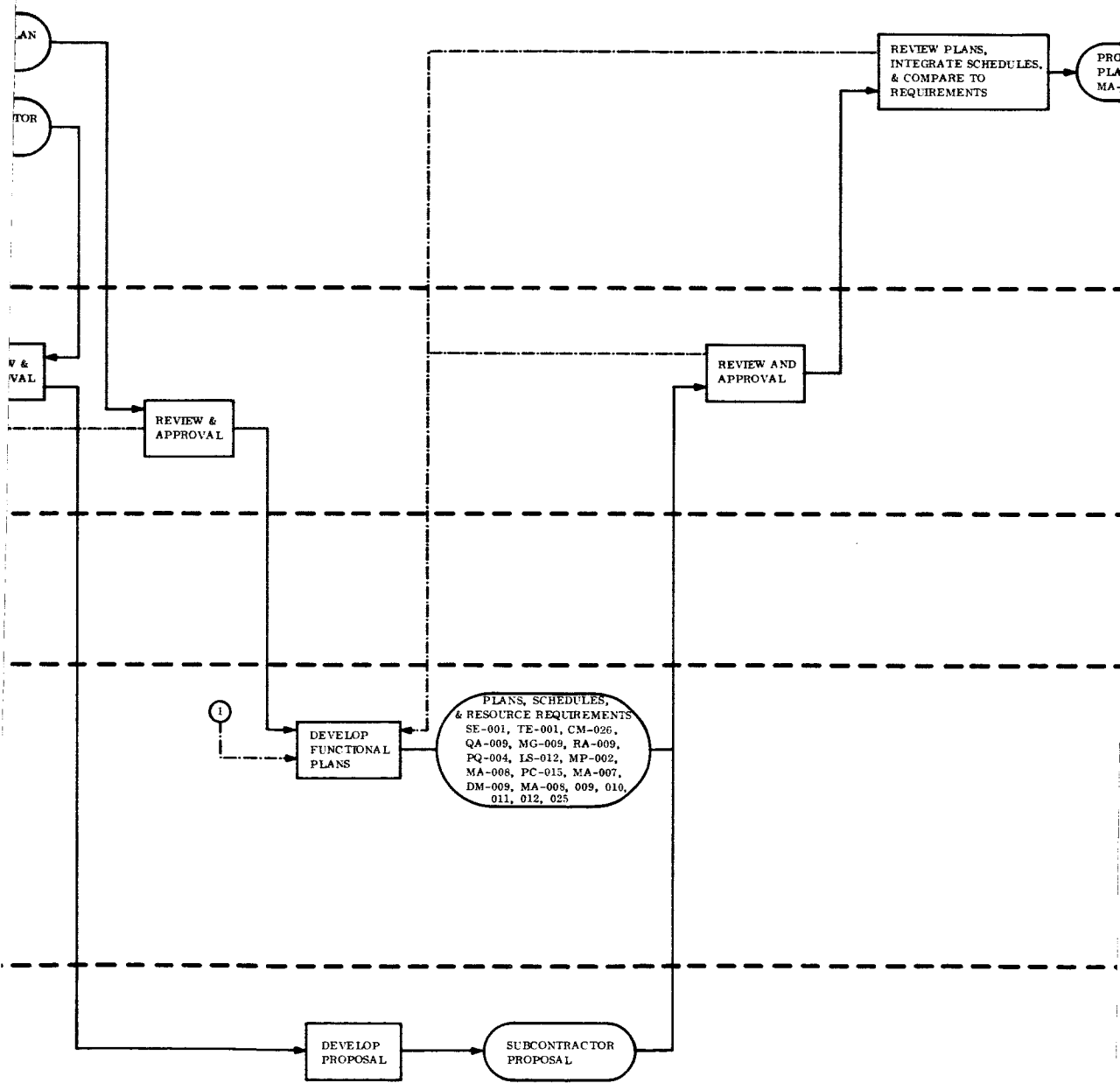
ACTIVITY, WITH DESCRIPTION INSIDE

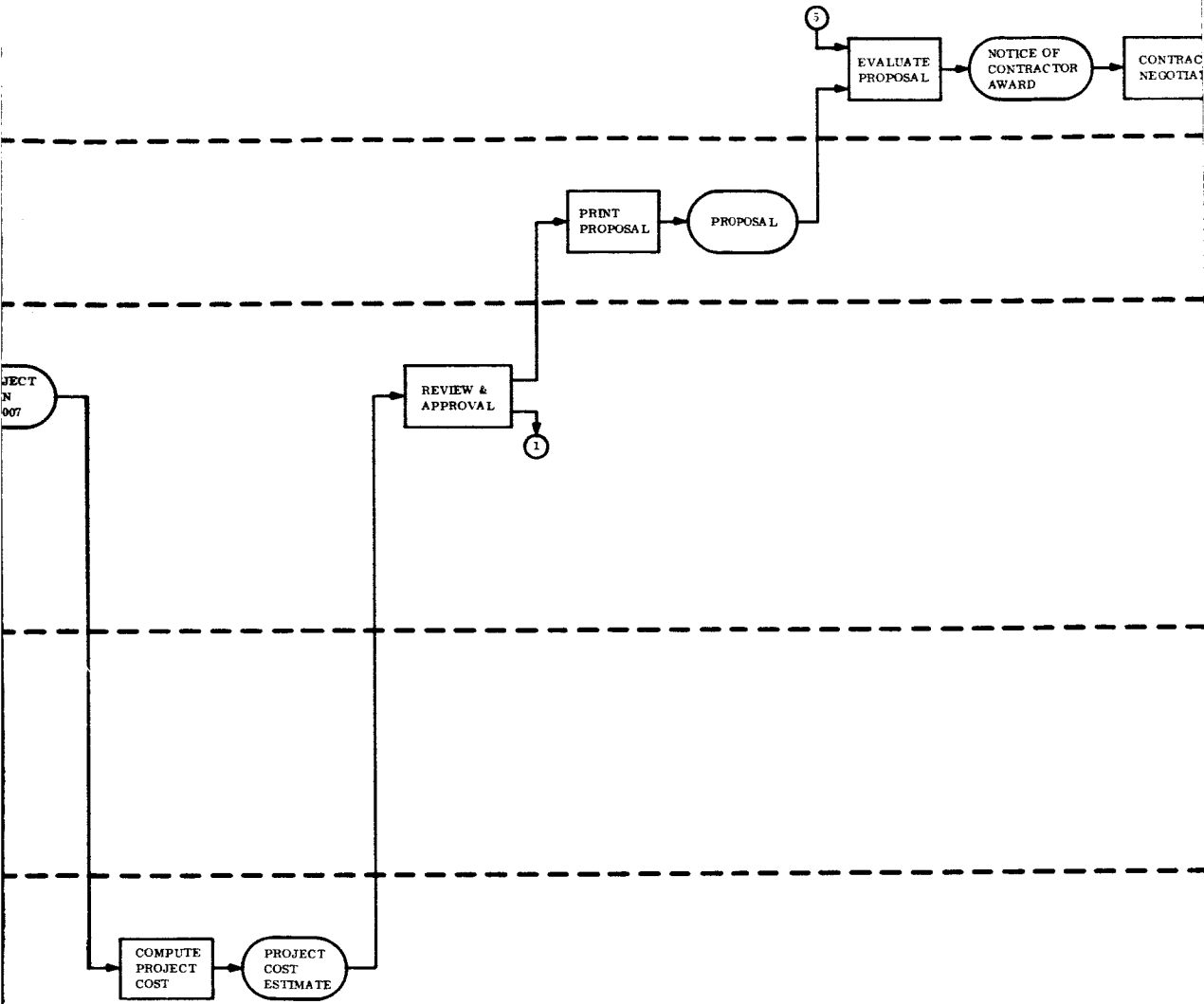
DATA ITEM(S), WITH TITLE(S) INSIDE

CONNECTS WITH ANOTHER LINE KEYED TO SAME NUMBER

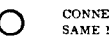
Figure I-1. Project Control User Flow Diagram - Summary



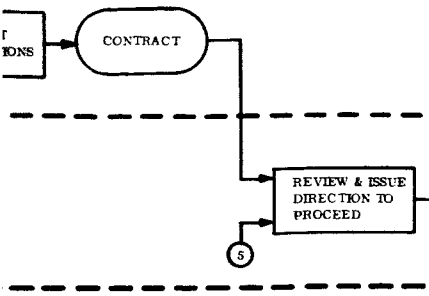




LEGEND:



3-8-2

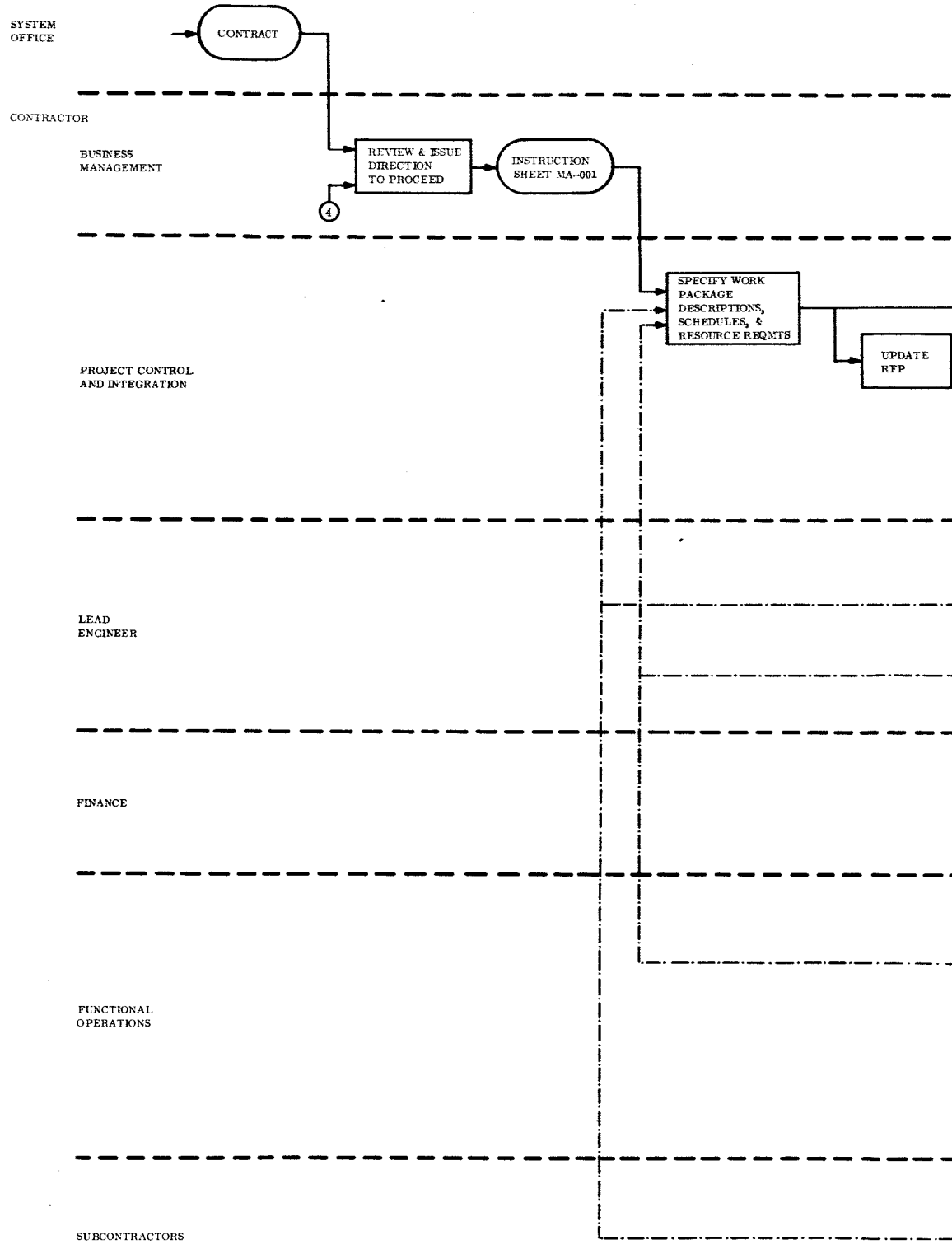


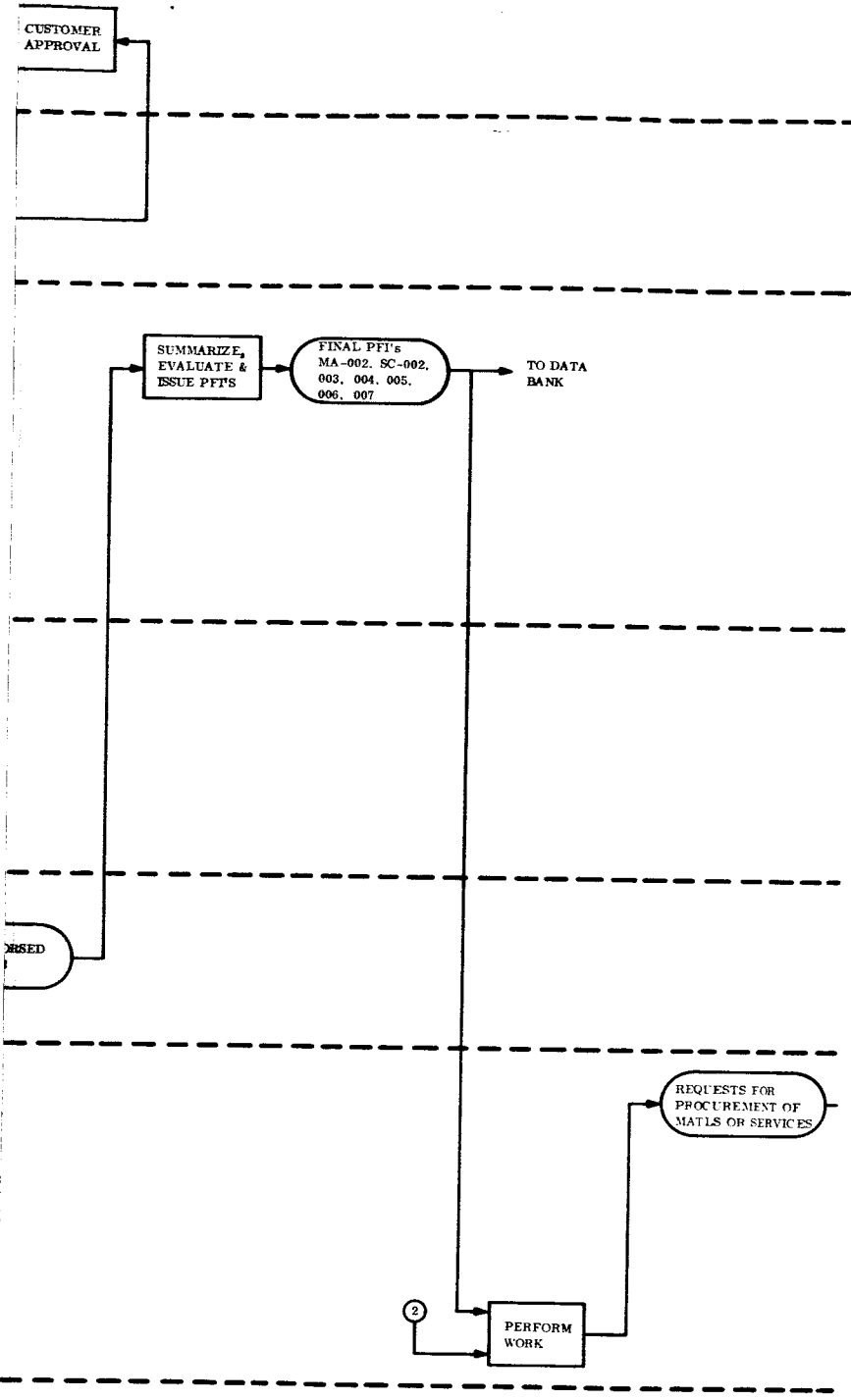
FUNCTIONS WITH DESCRIPTION INSIDE

CONTRACT(S) WITH TITLE(S) INSIDE

REVIEW & ISSUE DIRECTION TO PROCEED WITH ANOTHER LINE KEYED TO NUMBER

Figure I-2. Project Control User Flow Diagram (Sheet 1 of 4)





LEGEND:

- ACTIVITY, WITH DESCRIPTION INSIDE
- DATA ITEM(S), WITH TITLE(S) INSIDE
- CONNECTS WITH ANOTHER LINE KEYED TO SAME NUMBER

Figure I-2. Project Control User Flow Diagram (Sheet 2 of 4)

SYSTEM OFFICE

CONTRACTOR

BUSINESS MANAGEMENT

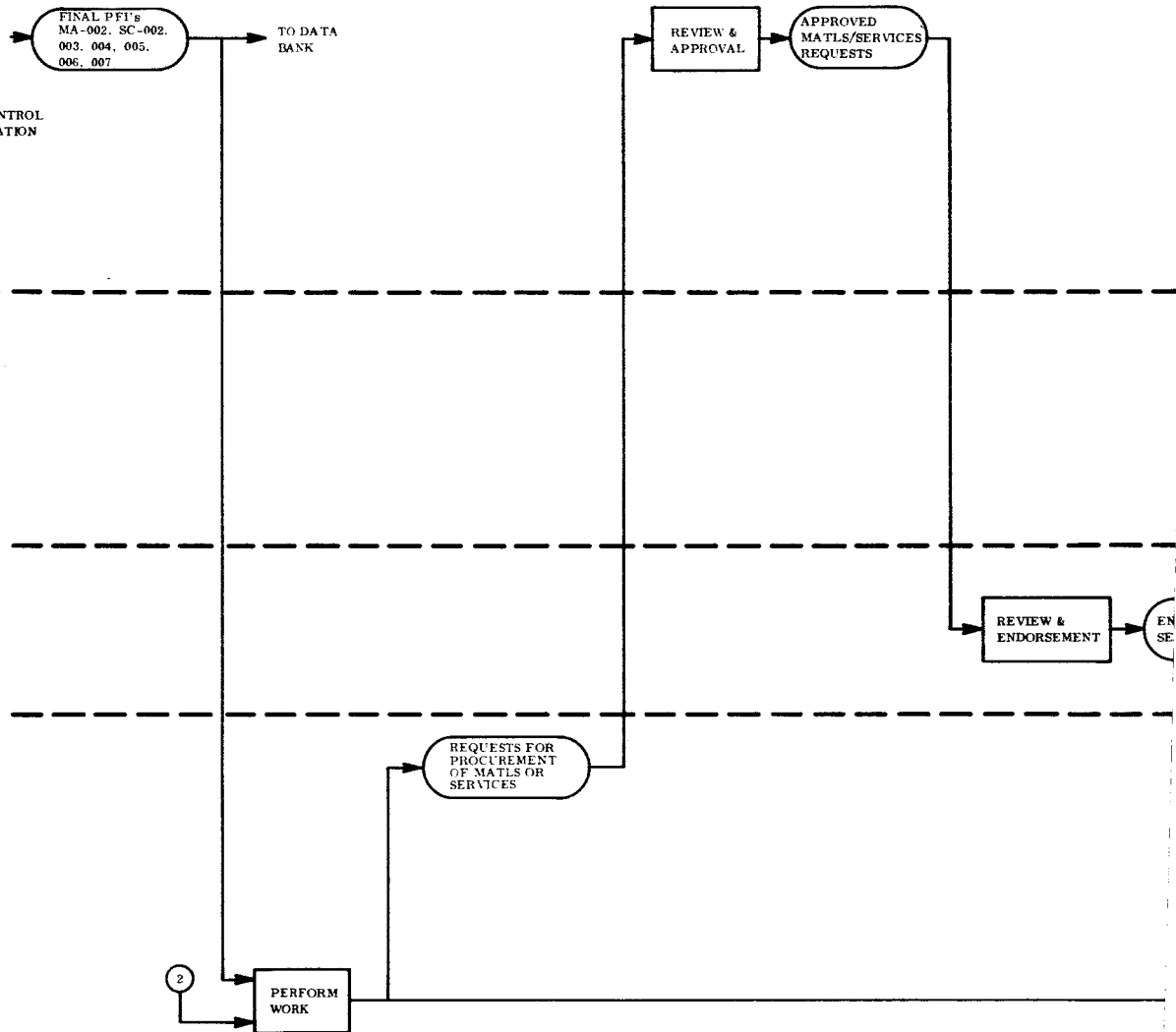
PROJECT CONTROL AND INTEGRATION

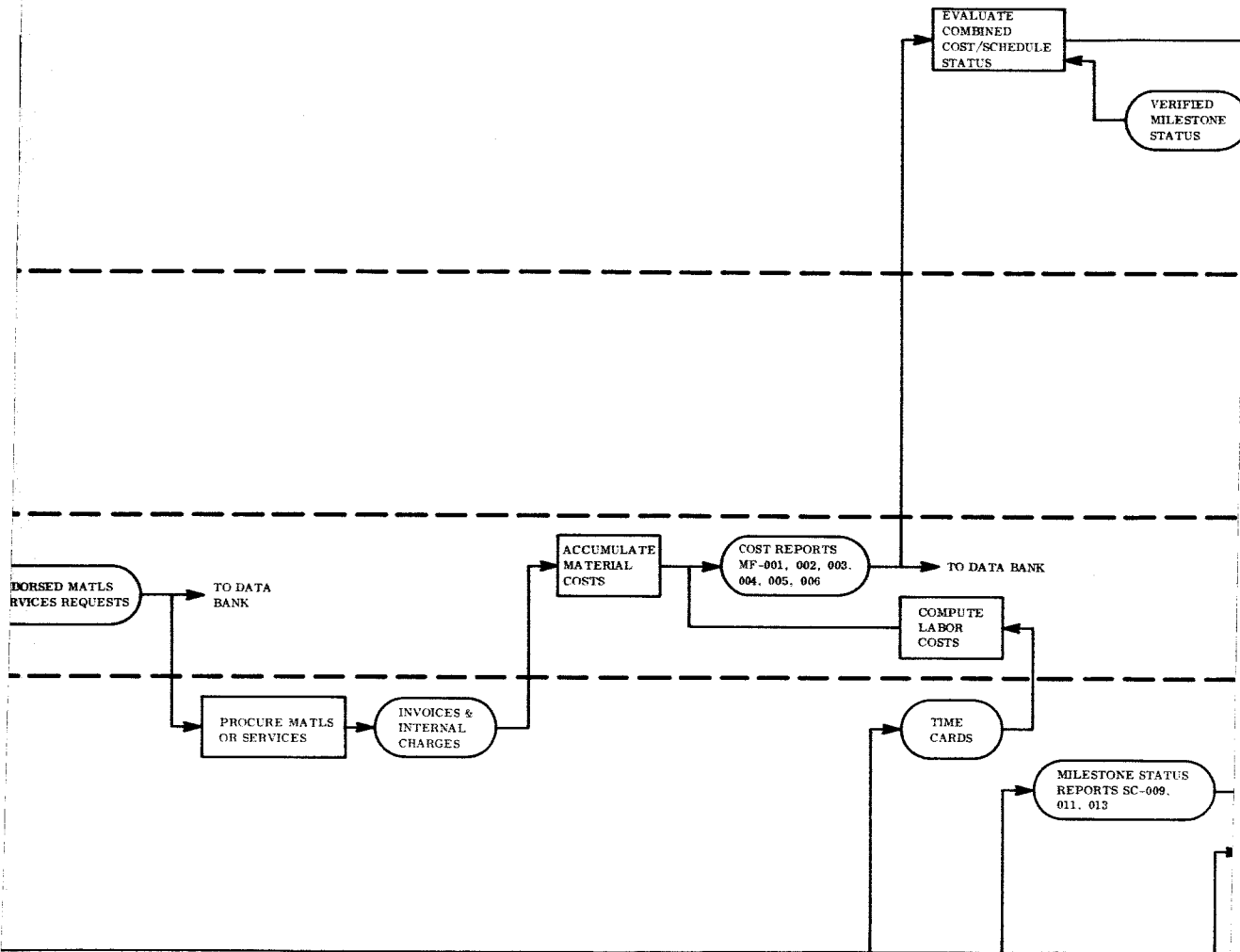
LEAD ENGINEER

FINANCE

FUNCTIONAL OPERATIONS

SUBCONTRACTORS





NOTES:

1. LEAD ENGINEER'S PERFORMANCE EVALUATION IS CONCERNED WITH EVALUATION OF DATA IN HIS AREA OF RESPONSIBILITY. (DATA EVALUATED INCLUDES THE COST/SCHEDULE ANALYSIS SUPPLIED BY PROJECT CONTROL.)
2. PROJECT CONTROL PERFORMANCE EVALUATION IS ADDITIONALLY CONCERNED WITH INTERFACE EFFECTS UPON OTHER TASKS AND/OR ORGANIZATIONS.

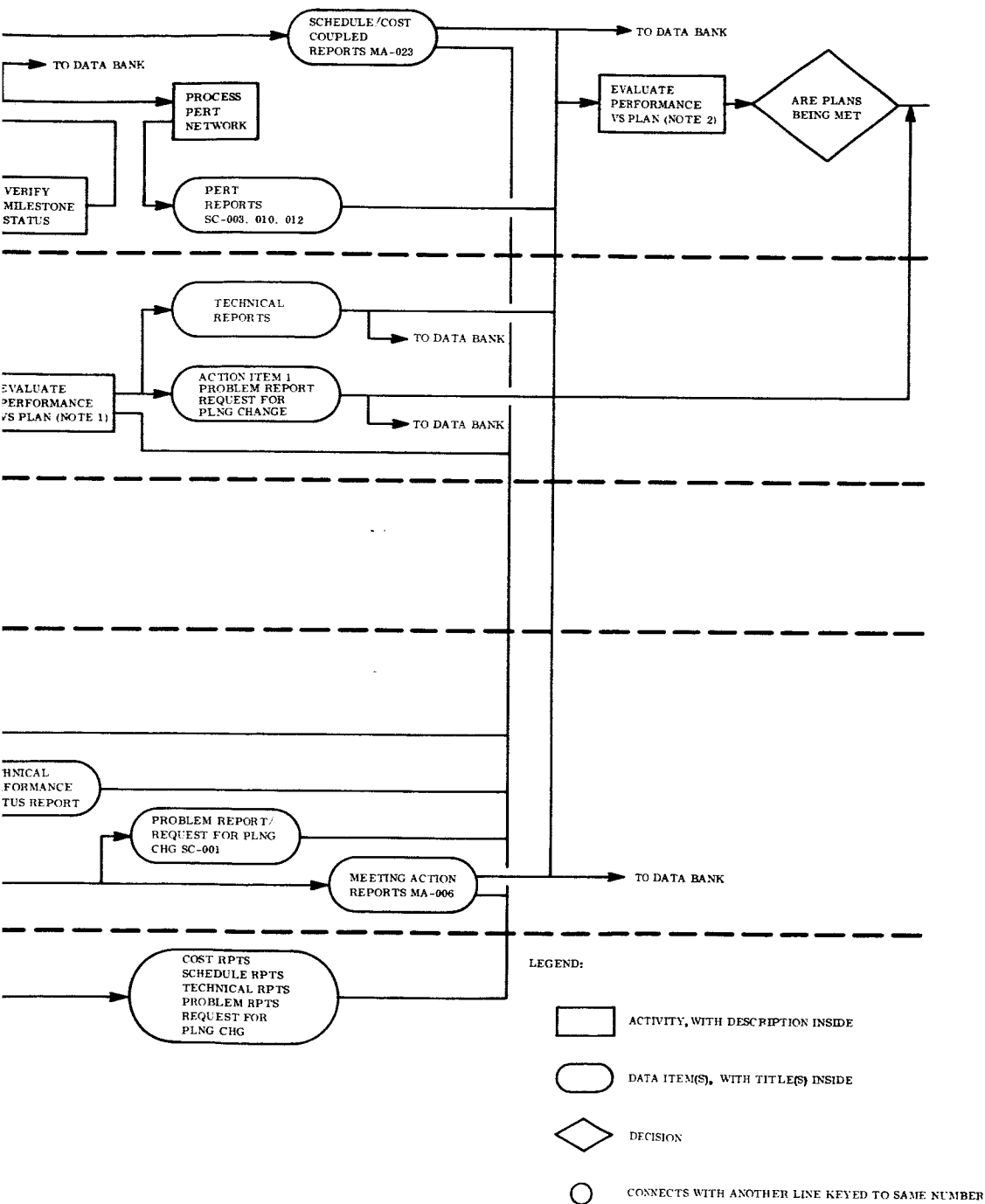


Figure I-2. Project Control User Flow Diagram (Sheet 3 of 4)

3-12-2

SYSTEM OFFICE

CONTRACTOR

BUSINESS MANAGEMENT

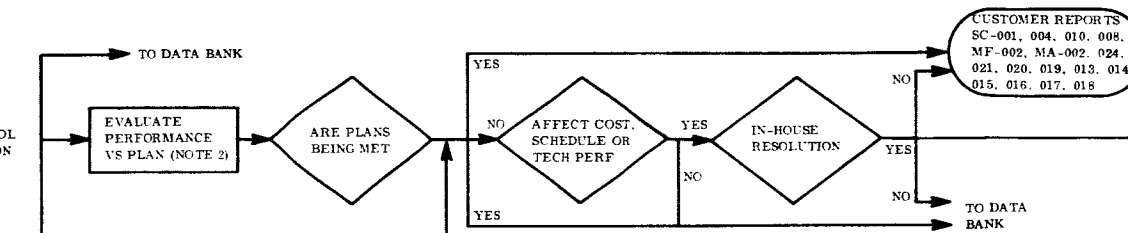
PROJECT CONTROL AND INTEGRATION

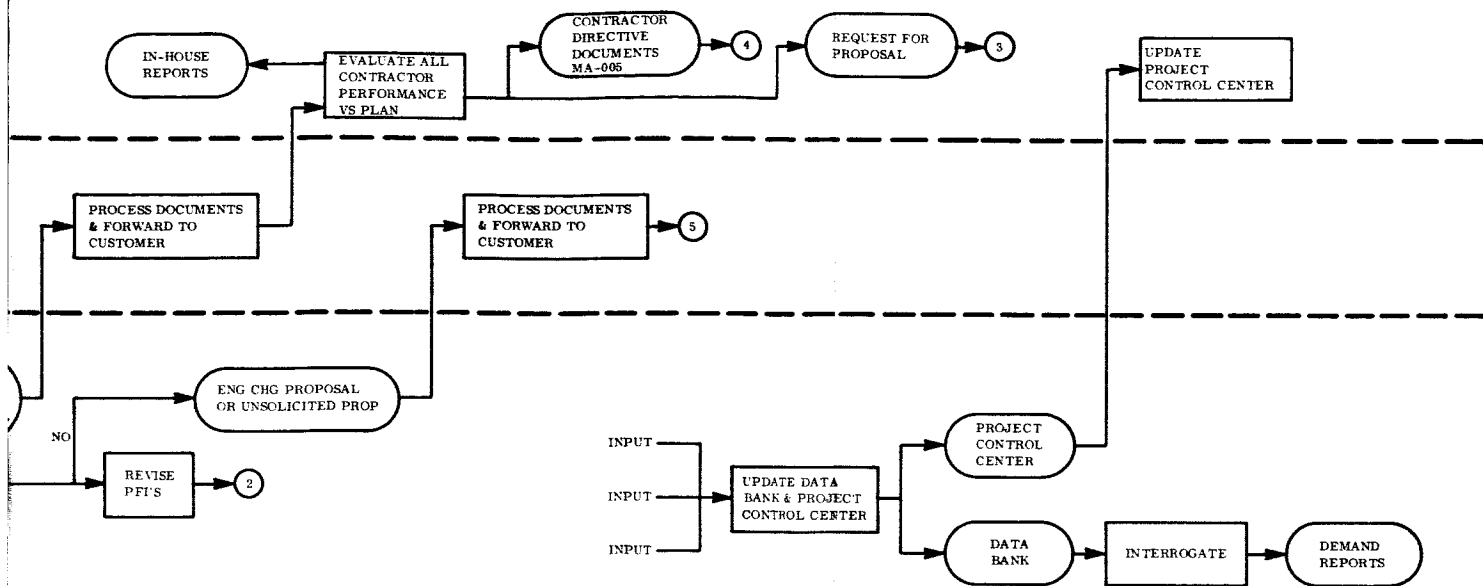
LEAD ENGINEER

FINANCE

FUNCTIONAL OPERATIONS

SUBCONTRACTORS





- NOTES:
1. LEAD ENGINEER'S PERFORMANCE EVALUATION IS CONCERNED WITH EVALUATION OF DATA IN HIS AREA OF RESPONSIBILITY. (DATA EVALUATED INCLUDES THE COST/SCHEDULE ANALYSIS SUPPLIED BY PROJECT CONTROL.)
 2. PROJECT CONTROL PERFORMANCE EVALUATION IS ADDITIONALLY CONCERNED WITH INTERFACE EFFECTS UPON OTHER TASKS AND/OR ORGANIZATIONS.

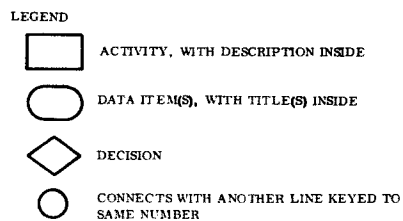


Figure I-2. Project Control User Flow Diagram (Sheet 4 of 4)

Overall Management Data Requirement Descriptions

<u>DRD Number</u>	<u>Title</u>
MA-001	*Project Change Notice
MA-002	*Project Funding Instruction (PFI)
MA-003	Project Policies, Procedures, and Directives
MA-004	*Department Policies, Procedures, and Directives
MA-005	List, Priority Action Items
MA-006	*List, Action Items
MA-007	Plan, Project Implementation
MA-008	Plan, Project Control
MA-009	Plan, Organization
MA-010	Plan, Project Communications
MA-011	Plan, Security
MA-012	Plan, Facility
MA-013	Report, Final Project
MA-014	*Report, Project Review
MA-015	Report, Project Problem/Action (Red Flag)
MA-016	Report, Project Progress (Monthly)
MA-017	Report, Project Review Schedule and Agenda
MA-018	Report, Film
MA-019	Report, Quarterly, Written
MA-020	Report, Resources Requirements/Availability
MA-021	Report, Weekly Activity
MA-022	Report, Schedule/Cost Coupling Summary (Monthly)
MA-023	*Report, Schedule/Cost Coupling
MA-024	Report, Contact
MA-025	Plan, Contingency Operation

* Key Informal Data

GE EXHIBIT DRD MA-001

VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

DRD NO.:
MA-001

SPECIAL INSTRUCTIONS:

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

The Project Change Notice shall provide all the pertinent information regarding customer directed scope changes, including preliminary effects on technical, cost and schedule performance as indicated on the attached sample form.

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

GE EXHIBIT DRD MA-001

CONTRACT #

DATE

PROGRAM CHANGE #

TITLE

TO:

Attached is a Program Change initiated by the Technical Officer ,
Project Office , in response to a request from Marketing .

It is requested that the Change be submitted to NASA as soon as possible
for Change Order approval.

A proposal will be prepared and submitted to you within 30 days
45 days 60 days , days.

PROGRAM CHANGE #

CONTRACT #

DATE:

TITLE:

DESCRIPTION:

Basis for Program Change Request: (Reference T.O. direction if applicable).

Justification for Scope Change (Relate Program Change to contractual requirements)

Estimate of Costs (Budgetary)

Effect on Performance (Relate effect to contract work statement re: power, weight, etc.)

Effect on Schedule (Budgetary)

GE EXHIBIT DRD MA-001

REMARKS:

Large empty rectangular box for remarks.

APPROVED:

APPROVED:

GE EXHIBIT DRD MA-002

VOYAGER DATA REQUIREMENT DESCRIPTION				DRD APPROVED BY:		DATE:	DATA CATEGORY:		
ORGANIZATION ORIGINATING REQUIREMENT:	CODE: MA	OFFICE RESPONSIBLE FOR DRD:	CODE:	DRD PREPARED BY: R. Ginsberg	DATE: 7/28/67	CONTRACT NO.:	DRD NO.: MA-002		
TITLE OF DOCUMENT: *PROJECT FUNDING INSTRUCTION (PFI)				ORGANIZATION RESPONSIBLE FOR DOCUMENT PREPARATION: Project Control		TASK OR SUBTASK:	DRL ITEM NO.:		
				ORGANIZATION RESPONSIBLE FOR DOCUMENT REPRODUCTION:		DRL NO.:	LEVEL NO.:		
				ORGANIZATION RESPONSIBLE FOR DOCUMENT DISTRIBUTION:		DDL NO.:	FILE NO.:		
				ORGANIZATION RESPONSIBLE FOR DOCUMENT STORAGE:		NO. OF COPIES: 25			
TYPE OF DOCUMENT: <input type="checkbox"/> CONTROL <input checked="" type="checkbox"/> ACTION <input type="checkbox"/> REFERENCE <input type="checkbox"/> INFORMATION				ESTIMATED MANHOURS FOR SINGLE PREPARATION:		INFORMATION CUTOFF DATE OR MILESTONE:			
USE OF DOCUMENT: Provides authorization and funding to performing operations to begin work. Allocates tasks through cost account level; identifies technical effort, schedule, manpower, cost, performing operation. Reviewed and updated on a monthly basis as applicable.				ESTIMATED COST (\$) FOR SINGLE PREPARATION:		DATE DATA DUE TO USER:			
INTERRELATIONSHIP WITH OTHER DATA REQUIREMENTS: MA-003, Project Policies, Procedures, and Directives MA-007, Plan, Project Implementation				FREQUENCY OF ISSUE: <input type="checkbox"/> ANNUALLY <input type="checkbox"/> SEMI-ANNUALLY <input type="checkbox"/> QUARTERLY <input type="checkbox"/> BI-MONTHLY <input checked="" type="checkbox"/> MONTHLY <input type="checkbox"/> SEMI-MONTHLY <input type="checkbox"/> BI-WEEKLY <input type="checkbox"/> WEEKLY <input type="checkbox"/> DAILY <input type="checkbox"/> OTHERWISE, AS SPECIFIED		PUBLICATION DATE: SDR			
						UPDATE (FREQUENCY OR MILESTONE): As required			
						ESTIMATED EXPIRATION DATE:			
CLASSIFICATION: <input type="checkbox"/> SECRET <input type="checkbox"/> CONFIDENTIAL <input type="checkbox"/> SECRET RESTRICTED DATA <input type="checkbox"/> CONFIDENTIAL RESTRICTED DATA <input checked="" type="checkbox"/> UNCLASSIFIED				<input type="checkbox"/> GROUP 1 <input type="checkbox"/> GROUP 2 <input type="checkbox"/> GROUP 3 <input type="checkbox"/> GROUP 4 <input type="checkbox"/> PROPRIETARY <input type="checkbox"/> PUBLIC DOMAIN		<input type="checkbox"/> SPECIAL HANDLING <input type="checkbox"/> NASA DISCREET <input type="checkbox"/> JPL DISCREET <input type="checkbox"/> PROJECT DISCREET <input type="checkbox"/> NOFORN			
FORM OF DATA: <input checked="" type="checkbox"/> PRINTED DOCUMENT <input type="checkbox"/> CHART <input type="checkbox"/> DIAGRAM <input type="checkbox"/> DRAWING <input type="checkbox"/> FILM (STATIC OR MOTION) <input type="checkbox"/> ILLUSTRATION <input type="checkbox"/> MODEL <input type="checkbox"/> RECORDING (TAPE OR DISC) <input type="checkbox"/> COMPUTER CARD <input type="checkbox"/> COMPUTER TAPE <input type="checkbox"/> MICROFILM (W/OR W/O CARD) <input type="checkbox"/> OTHER				KIND OF DATA: <input type="checkbox"/> ABSTRACT <input type="checkbox"/> BROCHURE <input type="checkbox"/> BULLETIN <input type="checkbox"/> CATALOG <input type="checkbox"/> CONTRACT <input type="checkbox"/> DIRECTIVE <input type="checkbox"/> DISCLOSURE <input type="checkbox"/> ENGINEERING CHANGE ORDER <input type="checkbox"/> REQUEST FOR ENGINEERING CHANGE PROPOSAL <input type="checkbox"/> ENGINEERING CHANGE PROPOSAL <input type="checkbox"/> HANDBOOK <input type="checkbox"/> INDEX				REFERENCE DOCUMENTS:	
				APPLICABLE STANDARDS:					
REVIEWS AND/OR APPROVALS REQUIRED: (LIST IN ORDER OF SUBMITTAL)									
		DRAFT			DATE	PREPUBLICATION PROOF	DATE		
SUBMIT FOR REVIEW TO:		_____		_____		_____			
		BY _____		_____		BY _____			
		_____		_____		_____			
		_____		_____		_____			
SUBMIT FOR APPROVAL TO:		Manager, Project Control		BY _____		_____			
		_____		_____		_____			

SPECIAL INSTRUCTIONS:

DRD NO.:

MA-002

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

Work authorizations will be issued to performing operations by Project Control by means of the Project Funding Instruction (PFI). One PFI will be issued by PC and one to each of the performing organizations listed funding for each of the work packages to be worked on by that particular organization. Each PFI will show all the following information by work package and by designated responsible individual in the performing operation per the attached sample form:

1. Funding for equivalent manpower (man-months)
2. Material (in thousands of dollars)
3. Past effort (inception-to-date), in equivalent man-months and material dollars expended and committed.
4. Future estimated effort (expressed in man-months and material dollars to be expended and committed.)
5. Event numbers and milestones to be completed.

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD)

**PROJECT FUNDING INSTRUCTION
VOYAGER PROJECT**

Funding To: _____
Details Attached

Work Package No.	Resp. Individual	Equivalent Manpower Man Months						Material (in thousands)						Event Nos. to be Completed		
		ITD Man Months May	Funding June	Est. July	Est. Aug.	Est. Bal. to Compl.	Est. at Compl.	Total Customer Base Line at Compl.	ITD	Funding June	Est. July	Est. Aug.	Est. Bal. to Compl.		Total Est. at Compl.	Total Customer Base Line at Compl.
1	2	3	4	5	6	7	8	9		10						11

Project Engineer _____ Date _____
 Functional Representative _____ Date _____
 Finance _____ Date _____

Project Funding Instruction (PFI) Form

SPECIAL INSTRUCTIONS:

DRD NO.:

MA-003

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

Project policies, procedures and directives will be classified by function rather than by organization structure in accordance with the following categories:

1. General and Administrative
2. Financial
3. Engineering
4. Manufacturing
5. Facilities
6. Marketing and Contracts
7. Employee and Community Relations
8. Reliability
9. Quality Assurance
10. Legal
11. Security, Safety, and Plant Protection
12. Program Management

Each instruction will include the following major paragraphs or sections.

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

GE EXHIBIT DRD MA-003

Purpose - The purpose or need for the instruction should be developed so that there is no question in the mind of the reader.

Definition - Significant items should be defined when there might be some question of their meaning.

Policy - The policy statement should be made in concise and understandable language.

Responsibilities - Specific responsibilities of the organizational elements involved in implementing the instruction will be identified.

Procedure - Procedural details should be briefly but clearly stated in chronological order. When possible, responsibilities and procedure may be combined in one major section/paragraph, to avoid repetition and to keep the instruction concise and clear.

GE EXHIBIT DRD MA-004

VOYAGER DATA REQUIREMENT DESCRIPTION				DRD APPROVED BY:		DATE:	DATA CATEGORY:				
ORGANIZATION ORIGINATING REQUIREMENT:	CODE: MA	OFFICE RESPONSIBLE FOR DRD:	CODE:	DRD PREPARED BY: R. Ginsberg	DATE: 7/28/67	CONTRACT NO.:	DRD NO.: MA-004				
TITLE OF DOCUMENT: *DEPARTMENT POLICIES, PROCEDURES, AND DIRECTIVES				ORGANIZATION RESPONSIBLE FOR DOCUMENT PREPARATION: Project Control		TASK OR SUBTASK:	DRL ITEM NO.:				
				ORGANIZATION RESPONSIBLE FOR DOCUMENT REPRODUCTION:		DRL NO.:	LEVEL NO.:				
				ORGANIZATION RESPONSIBLE FOR DOCUMENT DISTRIBUTION:		DDL NO.:	FILE NO.:				
TYPE OF DOCUMENT: <input checked="" type="checkbox"/> CONTROL <input type="checkbox"/> ACTION <input type="checkbox"/> REFERENCE <input type="checkbox"/> INFORMATION				ORGANIZATION RESPONSIBLE FOR DOCUMENT STOWAGE:		NO OF COPIES: 250					
USE OF DOCUMENT: Provides uniform policies and procedures for all Project personnel to accomplish required routines and achieve Department objectives. Implements/defines Company or Division policies to assure Department compliance. Documents procedural subjects involving two or more sections. Provides guidance in satisfying contractual requirements.				ESTIMATED MANHOURS FOR SINGLE PREPARATION:		INFORMATION CUTOFF DATE OR MILESTONE:					
				ESTIMATED COST (\$) FOR SINGLE PREPARATION:		DATE DATA DUE TO USER:					
				FREQUENCY OF ISSUE: <input type="checkbox"/> ANNUALLY <input type="checkbox"/> SEMI-ANNUALLY <input type="checkbox"/> QUARTERLY <input type="checkbox"/> BI-MONTHLY <input type="checkbox"/> MONTHLY <input type="checkbox"/> SEMI-MONTHLY <input type="checkbox"/> BI-WEEKLY <input type="checkbox"/> WEEKLY <input type="checkbox"/> DAILY <input checked="" type="checkbox"/> OTHERWISE, AS SPECIFIED As required		PUBLICATION DATE: SDR					
INTERRELATIONSHIP WITH OTHER DATA REQUIREMENTS: MA-003, Project Policies, Procedures, and Directives				ESTIMATED COST (\$) FOR SINGLE PREPARATION:		DATE DATA DUE TO USER:					
				FREQUENCY OF ISSUE: <input type="checkbox"/> ANNUALLY <input type="checkbox"/> SEMI-ANNUALLY <input type="checkbox"/> QUARTERLY <input type="checkbox"/> BI-MONTHLY <input type="checkbox"/> MONTHLY <input type="checkbox"/> SEMI-MONTHLY <input type="checkbox"/> BI-WEEKLY <input type="checkbox"/> WEEKLY <input type="checkbox"/> DAILY <input checked="" type="checkbox"/> OTHERWISE, AS SPECIFIED As required		PUBLICATION DATE: SDR					
				CLASSIFICATION: <input type="checkbox"/> SECRET <input type="checkbox"/> CONFIDENTIAL <input type="checkbox"/> SECRET RESTRICTED DATA <input type="checkbox"/> CONFIDENTIAL RESTRICTED DATA <input type="checkbox"/> UNCLASSIFIED		<input type="checkbox"/> GROUP 1 <input type="checkbox"/> GROUP 2 <input type="checkbox"/> GROUP 3 <input type="checkbox"/> GROUP 4 <input checked="" type="checkbox"/> PROPRIETARY <input type="checkbox"/> PUBLIC DOMAIN		<input type="checkbox"/> SPECIAL HANDLING <input type="checkbox"/> NASA DISCREET <input type="checkbox"/> JPL DISCREET <input type="checkbox"/> PROJECT DISCREET <input type="checkbox"/> NOFORM		UPDATE (FREQUENCY OR MILESTONE): As required	
FORM OF DATA: <input checked="" type="checkbox"/> PRINTED DOCUMENT <input type="checkbox"/> CHART <input type="checkbox"/> DIAGRAM <input type="checkbox"/> DRAWING <input type="checkbox"/> FILM (STATIC OR MOTION) <input type="checkbox"/> ILLUSTRATION <input type="checkbox"/> MODEL <input type="checkbox"/> RECORDING (TAPE OR DISC) <input type="checkbox"/> COMPUTER CARD <input type="checkbox"/> COMPUTER TAPE <input type="checkbox"/> MICROFILM (W/OR W/O CARD) <input type="checkbox"/> OTHER		KIND OF DATA: <input type="checkbox"/> ABSTRACT <input type="checkbox"/> BROCHURE <input type="checkbox"/> BULLETIN <input type="checkbox"/> CATALOG <input type="checkbox"/> CONTRACT <input type="checkbox"/> DIRECTIVE <input type="checkbox"/> DISCLOSURE <input type="checkbox"/> ENGINEERING CHANGE ORDER <input type="checkbox"/> REQUEST FOR ENGINEERING CHANGE PROPOSAL <input type="checkbox"/> ENGINEERING CHANGE PROPOSAL <input type="checkbox"/> HANDBOOK <input type="checkbox"/> INDEX		<input type="checkbox"/> INSTRUCTION <input type="checkbox"/> LETTER <input type="checkbox"/> LIST <input type="checkbox"/> LOG <input type="checkbox"/> MANUAL <input type="checkbox"/> MEMORANDUM <input type="checkbox"/> MINUTES <input checked="" type="checkbox"/> PROCEDURE <input type="checkbox"/> REGULATION <input type="checkbox"/> REPORT <input type="checkbox"/> SCHEDULE <input type="checkbox"/> SPECIFICATION <input type="checkbox"/> STANDARD <input type="checkbox"/> VOUCHER		REFERENCE DOCUMENTS: 1. Introduction of the Company Organization and Policy Guide 2. Company Directive Policy No. 20.1 3. Missile and Space Division Policies					
REVIEWS AND/OR APPROVALS REQUIRED: (LIST IN ORDER OF SUBMITTAL)				APPLICABLE STANDARDS:		ESTIMATED EXPIRATION DATE:					
				DRAFT		DATE		PREPUBLICATION PROOF		DATE	
				SUBMIT FOR REVIEW TO: _____		_____		_____		_____	
_____ BY _____		_____		_____		_____					
_____ BY _____		_____		_____		_____					
SUBMIT FOR APPROVAL TO: Project Manager		BY _____		_____		BY _____					
_____		_____		_____		_____					

SPECIAL INSTRUCTIONS:

DRD NO.:
MA-004

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

Department policies, procedures and directives will be classified by function rather than by organization structure in accordance with the following categories:

1. General and Administrative
2. Financial
3. Engineering
4. Manufacturing
5. Facilities
6. Marketing and Contracts
7. Employee and Community Relations
8. Reliability
9. Quality Assurance
10. Legal
11. Security, Safety, and Plant Protection
12. Program Management

Each instruction will include the following major paragraphs or sections:

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD)

GE EXHIBIT DRD MA-004

Purpose - The purpose or need for the instruction should be developed so that there is no question in the mind of the reader.

Definition - Significant items should be defined when there might be some question of their meaning.

Policy - The policy statement should be made in concise and understandable language.

Responsibilities - Specific responsibilities of the organizational elements involved in implementing the instruction will be identified.

Procedure - Procedural details should be briefly but clearly stated in chronological order. When possible, responsibilities and procedure may be combined in one major section/paragraph to avoid repetition and to keep the instruction concise and clear.

GE EXHIBIT DRD MA-005

VOYAGER DATA REQUIREMENT DESCRIPTION				DRD APPROVED BY:		DATE:	DATA CATEGORY:				
ORGANIZATION ORIGINATING REQUIREMENT:	CODE: MA	OFFICE RESPONSIBLE FOR DRD:	CODE:	DRD PREPARED BY: R. Ginsberg	DATE: 7/28/67	CONTRACT NO.:	DRD NO.: MA-005				
TITLE OF DOCUMENT: LIST, PRIORITY ACTION ITEMS				ORGANIZATION RESPONSIBLE FOR DOCUMENT PREPARATION: Project Control		TASK OR SUBTASK:	DRL ITEM NO.:				
				ORGANIZATION RESPONSIBLE FOR DOCUMENT REPRODUCTION:		DRL NO.:	LEVEL NO.:				
				ORGANIZATION RESPONSIBLE FOR DOCUMENT DISTRIBUTION:		DDL NO.:	FILE NO.:				
				ORGANIZATION RESPONSIBLE FOR DOCUMENT STOWAGE:		NO OF COPIES 50					
TYPE OF DOCUMENT: <input type="checkbox"/> CONTROL <input type="checkbox"/> ACTION <input type="checkbox"/> REFERENCE <input checked="" type="checkbox"/> INFORMATION				ESTIMATED MANHOURS FOR SINGLE PREPARATION:		INFORMATION CUTOFF DATE OR MILESTONE:					
USE OF DOCUMENT: Formally establishes project priorities for required actions between customer and contractor.				ESTIMATED COST (\$) FOR SINGLE PREPARATION:		DATE DATA DUE TO USER:					
INTERRELATIONSHIP WITH OTHER DATA REQUIREMENTS: MA-003, Project Policies, Procedures, and Directives MA-008, Plan, Project Control MA-015, Report, Project Problem/Action (Red Flag)				FREQUENCY OF ISSUE:		PUBLICATION DATE					
				<input type="checkbox"/> ANNUALLY <input type="checkbox"/> SEMI-ANNUALLY <input type="checkbox"/> QUARTERLY <input type="checkbox"/> BI-MONTHLY <input checked="" type="checkbox"/> MONTHLY <input type="checkbox"/> SEMI-MONTHLY <input type="checkbox"/> BI-WEEKLY <input type="checkbox"/> WEEKLY <input type="checkbox"/> DAILY <input type="checkbox"/> OTHERWISE, AS SPECIFIED		SDR					
						UPDATE (FREQUENCY OR MILESTONE) Not applicable					
CLASSIFICATION:				<input type="checkbox"/> GROUP 1 <input type="checkbox"/> SPECIAL HANDLING <input type="checkbox"/> GROUP 2 <input type="checkbox"/> NASA DISCREET <input type="checkbox"/> GROUP 3 <input type="checkbox"/> JPL DISCREET <input type="checkbox"/> GROUP 4 <input type="checkbox"/> PROJECT DISCREET <input type="checkbox"/> PROPRIETARY <input type="checkbox"/> NOFORN <input type="checkbox"/> PUBLIC DOMAIN		ESTIMATED EXPIRATION DATE:					
CLASSIFICATION: <input type="checkbox"/> SECRET <input type="checkbox"/> CONFIDENTIAL <input type="checkbox"/> SECRET RESTRICTED DATA <input type="checkbox"/> CONFIDENTIAL RESTRICTED DATA <input checked="" type="checkbox"/> UNCLASSIFIED				REFERENCE DOCUMENTS: APPLICABLE STANDARDS							
FORM OF DATA:				KIND OF DATA:							
<input checked="" type="checkbox"/> PRINTED DOCUMENT <input type="checkbox"/> CHART <input type="checkbox"/> DIAGRAM <input type="checkbox"/> DRAWING <input type="checkbox"/> FILM (STATIC OR MOTION) <input type="checkbox"/> ILLUSTRATION <input type="checkbox"/> MODEL <input type="checkbox"/> RECORDING (TAPE OR DISC) <input type="checkbox"/> COMPUTER CARD <input type="checkbox"/> COMPUTER TAPE <input type="checkbox"/> MICROFILM (W/OR W/O CARD) <input type="checkbox"/> OTHER				<input type="checkbox"/> ABSTRACT <input type="checkbox"/> BROCHURE <input type="checkbox"/> BULLETIN <input type="checkbox"/> CATALOG <input type="checkbox"/> CONTRACT <input type="checkbox"/> DIRECTIVE <input type="checkbox"/> DISCLOSURE <input type="checkbox"/> ENGINEERING CHANGE ORDER <input type="checkbox"/> REQUEST FOR ENGINEERING CHANGE PROPOSAL <input type="checkbox"/> ENGINEERING CHANGE PROPOSAL <input type="checkbox"/> HANDBOOK <input type="checkbox"/> INDEX				<input type="checkbox"/> INSTRUCTION <input type="checkbox"/> LETTER <input checked="" type="checkbox"/> LIST <input type="checkbox"/> LOG <input type="checkbox"/> MANUAL <input type="checkbox"/> MEMORANDUM <input type="checkbox"/> MINUTES <input type="checkbox"/> PLAN <input type="checkbox"/> PROCEDURE <input type="checkbox"/> REGULATION <input type="checkbox"/> REPORT <input type="checkbox"/> SCHEDULE <input type="checkbox"/> SPECIFICATION <input type="checkbox"/> STANDARD <input type="checkbox"/> VOUCHER			
REVIEWS AND/OR APPROVALS REQUIRED: (LIST IN ORDER OF SUBMITTAL)											
		DRAFT			DATE						
SUBMIT FOR REVIEW TO:		_____	_____		_____	_____					
		_____	BY _____		_____	BY _____					
		_____	_____		_____	_____					
		_____	_____		_____	_____					
SUBMIT FOR APPROVAL TO:		_____	BY Project Manager		_____	BY _____					
		_____	_____		_____	_____					

SPECIAL INSTRUCTIONS:

DRD NO.:

MA-005

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

The Priority Action Item List shall delineate all problem areas which have a significant effect on Project progress and for which specific actions are required of either the customer or the contractor to effect resolution. The following data shall be shown for each action item listed

1. Applicable reference to the Project Problem Report
2. The schedule date for completion
3. The individual(s) customer and/or contractor assigned to complete the action
4. The interfacing activities or milestones affected
5. The severity category into which the problem currently falls
6. The possible effects of a slippage in meeting the date

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

SPECIAL INSTRUCTIONS

DRD NO:
MA-006

SPECIAL DISTRIBUTION (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING ODL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS

The Action Item List shall delineate at subtask level all problem areas which have a significant effect on Project progress, and for which specific actions are required of contractor personnel to effect resolution. The following data shall be shown for each action item listed:

1. Applicable reference to the Priority Action Item List (or other reference)
2. The scheduled date for completion
3. The individual assigned to complete the action
4. The interfacing activities or milestones affected
5. Participating Project organizations
6. The proposed solution and/or actions required, if determined

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

VOYAGER DATA REQUIREMENT DESCRIPTION				DRD APPROVED BY:		DATE:	DATA CATEGORY:								
ORGANIZATION ORIGINATING REQUIREMENT:	CODE: MA	OFFICE RESPONSIBLE FOR DRD:	CODE:	DRD PREPARED BY: H. H. Dow	DATE: 7/28/67	CONTRACT NO.:	DRD NO.: MA-007								
TITLE OF DOCUMENT: PLAN, PROJECT IMPLEMENTATION				ORGANIZATION RESPONSIBLE FOR DOCUMENT PREPARATION: Project Control		TASK OR SUBTASK:	DRL ITEM NO.:								
				ORGANIZATION RESPONSIBLE FOR DOCUMENT REPRODUCTION:		DRL NO.:	LEVEL NO.:								
				ORGANIZATION RESPONSIBLE FOR DOCUMENT DISTRIBUTION:		DDL NO.:	FILE NO.:								
TYPE OF DOCUMENT: <input checked="" type="checkbox"/> CONTROL <input type="checkbox"/> ACTION <input type="checkbox"/> REFERENCE <input type="checkbox"/> INFORMATION				ORGANIZATION RESPONSIBLE FOR DOCUMENT STOWAGE:		NO. OF COPIES: 30									
USE OF DOCUMENT: Provides formal overall direction to all personnel assigned to the Project. Defines for the customer and the contractor all Project objectives, requirements, procedures, and policies and indicates how they will be implemented to achieve the project goals.				ESTIMATED MANHOURS FOR SINGLE PREPARATION:		INFORMATION CUTOFF DATE OR MILESTONE:									
				ESTIMATED COST (\$) FOR SINGLE PREPARATION:		DATE DATA DUE TO USER:									
INTERRELATIONSHIP WITH OTHER DATA REQUIREMENTS: None				FREQUENCY OF ISSUE:		PUBLICATION DATE: SDR									
				<input type="checkbox"/> ANNUALLY <input type="checkbox"/> SEMI-ANNUALLY <input checked="" type="checkbox"/> QUARTERLY <input type="checkbox"/> BI-MONTHLY <input type="checkbox"/> MONTHLY <input type="checkbox"/> SEMI-MONTHLY <input type="checkbox"/> BI-WEEKLY <input type="checkbox"/> WEEKLY <input type="checkbox"/> DAILY <input type="checkbox"/> OTHERWISE, AS SPECIFIED		UPDATE (FREQUENCY OR MILESTONE): As required through FACI									
CLASSIFICATION:				<input type="checkbox"/> GROUP 1 <input type="checkbox"/> SPECIAL HANDLING <input type="checkbox"/> GROUP 2 <input type="checkbox"/> NASA DISCREET <input type="checkbox"/> GROUP 3 <input type="checkbox"/> JPL DISCREET <input type="checkbox"/> GROUP 4 <input type="checkbox"/> PROJECT DISCREET <input type="checkbox"/> PROPRIETARY <input type="checkbox"/> NOFORN <input type="checkbox"/> PUBLIC DOMAIN		ESTIMATED EXPIRATION DATE:									
CLASSIFICATION: <input type="checkbox"/> SECRET <input type="checkbox"/> CONFIDENTIAL <input type="checkbox"/> SECRET RESTRICTED DATA <input type="checkbox"/> CONFIDENTIAL RESTRICTED DATA <input checked="" type="checkbox"/> UNCLASSIFIED				FORM OF DATA: <input checked="" type="checkbox"/> PRINTED DOCUMENT <input type="checkbox"/> CHART <input type="checkbox"/> DIAGRAM <input type="checkbox"/> DRAWING <input type="checkbox"/> FILM (STATIC OR MOTION) <input type="checkbox"/> ILLUSTRATION <input type="checkbox"/> MODEL <input type="checkbox"/> RECORDING (TAPE OR DISC) <input type="checkbox"/> COMPUTER CARD <input type="checkbox"/> COMPUTER TAPE <input type="checkbox"/> MICROFILM (W/OR W/O CARD) <input type="checkbox"/> OTHER				KIND OF DATA: <input type="checkbox"/> ABSTRACT <input type="checkbox"/> BROCHURE <input type="checkbox"/> BULLETIN <input type="checkbox"/> CATALOG <input type="checkbox"/> CONTRACT <input type="checkbox"/> DIRECTIVE <input type="checkbox"/> DISCLOSURE <input type="checkbox"/> ENGINEERING CHANGE ORDER <input type="checkbox"/> REQUEST FOR ENGINEERING CHANGE PROPOSAL <input type="checkbox"/> ENGINEERING CHANGE PROPOSAL <input type="checkbox"/> HANDBOOK <input type="checkbox"/> INDEX				REFERENCE DOCUMENTS: APPLICABLE STANDARDS:			
REVIEWS AND/OR APPROVALS REQUIRED: (LIST IN ORDER OF SUBMITTAL)															
		DRAFT	DATE	PREPUBLICATION PROOF			DATE								
SUBMIT FOR REVIEW TO:		_____	_____	_____	_____		_____								
		BY	_____	BY	_____		_____								
		_____	_____	_____	_____		_____								
		BY	_____	BY	_____		_____								
SUBMIT FOR APPROVAL TO:		_____	_____	_____	_____		_____								
		<u>Project Manager</u>		_____	_____		_____								

SPECIAL INSTRUCTIONS:

DRD NO.:
MA-007

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

1. This document defines the overall Project plan established to meet the contract objectives by implementing and integrating all the salient plans and other planning documents that cover the Project management, operations, and control functions.

2. The plan shall include:

a. An introductory section consisting of a brief narration of the project, its objectives, its major milestones and their timing schedules. It may, as applicable, include the project interface with other projects or systems of the overall Voyager Program.

b. Reference to and a brief outline of the objectives and purpose of the major plans developed for the project effort including, as a minimum, the following plans:

- | | |
|--------------------------|--|
| Organization | Quality Assurance |
| Project Control | Inspection |
| Configuration Management | Subcontractor/Vendor Quality Assurance |
| Data Management | Safety |
| Manufacturing | Integrated Test |
| Procurement | Communications |
| Facilities | Handling and Transportation |
| Logistic Support | Contingency Operations |
| Mission Operations | Master Financial |
| Reliability | |

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

c. A narrative description that briefly correlates and integrates the efforts covered by the plans listed in b. to present an overall project management plan defining the project operations and controls, both administratively and technically.

SPECIAL INSTRUCTIONS:

DRD NO.:
MA-008

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

The Project Control Plan shall define the organization, procedures and communication methods proposed to perform the internal control functions of management. It shall define the critical problem areas of control and proposed solutions and control features, including the following:

1. Control emphasis tailored to project phases
2. Use of technical performance monitoring as one basic control function
3. Use of integrated work performance/resources and schedule evaluation
4. Dynamic control center with customer repeater display
5. Computerized data bank with direct customer access
6. Emphasis on early problem detection and correction capability
7. Corporate executive participation

The plan shall include, as a minimum, the project approach to the following subjects:

1. Project Control Requirements
2. Problems/Critical Areas
3. Organization/Responsibilities
4. Project Control Center
5. Technical Performance Monitoring

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

GE EXHIBIT DRD MA-008

6. Resource Monitoring and Control
7. PERT Planning and Operation
8. Work Performance Assessment (including Schedule/Cost Coupling system)
9. Subcontractor Monitoring and Control
10. Project Control Reviews/Reports

GE EXHIBIT DRD MA-009

VOYAGER DATA REQUIREMENT DESCRIPTION				DRD APPROVED BY:		DATE:	DATA CATEGORY:
ORGANIZATION ORIGINATING REQUIREMENT:	CODE: MA	OFFICE RESPONSIBLE FOR DRD:	CODE:	DRD PREPARED BY: R. Ginsberg	DATE: 7/28/67	CONTRACT NO.:	DRD NO.: MA-009
TITLE OF DOCUMENT: PLAN, ORGANIZATION				ORGANIZATION RESPONSIBLE FOR DOCUMENT PREPARATION: Project Control		TASK OR SUBTASK:	DRL ITEM NO.:
				ORGANIZATION RESPONSIBLE FOR DOCUMENT REPRODUCTION:		DRL NO.:	LEVEL NO.:
				ORGANIZATION RESPONSIBLE FOR DOCUMENT DISTRIBUTION:		DDL NO.:	FILE NO.:
TYPE OF DOCUMENT: <input checked="" type="checkbox"/> CONTROL <input type="checkbox"/> ACTION <input type="checkbox"/> REFERENCE <input type="checkbox"/> INFORMATION				ORGANIZATION RESPONSIBLE FOR DOCUMENT STOWAGE:		NO. OF COPIES: 50	
USE OF DOCUMENT: Defines management and operational organization established to meet Project objectives. Provides customer with names and qualification data of key personnel assigned to manage and direct the Project at contractor and subcontractor levels.				ESTIMATED MANHOURS FOR SINGLE PREPARATION:		INFORMATION CUTOFF DATE OR MILESTONE:	
				ESTIMATED COST (\$) FOR SINGLE PREPARATION:		DATE DATA DUE TO USER:	
INTERRELATIONSHIP WITH OTHER DATA REQUIREMENTS: DM-008, Plan, Contractor Data Acquisition Flow MA-007, Plan, Project Implementation				FREQUENCY OF ISSUE: <input type="checkbox"/> ANNUALLY <input type="checkbox"/> SEMI-ANNUALLY <input type="checkbox"/> QUARTERLY <input type="checkbox"/> BI-MONTHLY <input type="checkbox"/> MONTHLY <input type="checkbox"/> SEMI-MONTHLY <input type="checkbox"/> BI-WEEKLY <input type="checkbox"/> WEEKLY <input type="checkbox"/> DAILY <input checked="" type="checkbox"/> OTHERWISE, AS SPECIFIED As required		PUBLICATION DATE: SDR	
						UPDATE (FREQUENCY OR MILESTONE): As required	
CLASSIFICATION: <input type="checkbox"/> SECRET <input type="checkbox"/> CONFIDENTIAL <input type="checkbox"/> SECRET RESTRICTED DATA <input type="checkbox"/> CONFIDENTIAL RESTRICTED DATA <input checked="" type="checkbox"/> UNCLASSIFIED				<input type="checkbox"/> GROUP 1 <input type="checkbox"/> GROUP 2 <input type="checkbox"/> GROUP 3 <input type="checkbox"/> GROUP 4 <input type="checkbox"/> PROPRIETARY <input type="checkbox"/> PUBLIC DOMAIN		<input type="checkbox"/> SPECIAL HANDLING <input type="checkbox"/> NASA DISCREET <input type="checkbox"/> JPL DISCREET <input type="checkbox"/> PROJECT DISCREET <input type="checkbox"/> NOFORN	
FORM OF DATA:		KIND OF DATA:		REFERENCE DOCUMENTS:			
<input checked="" type="checkbox"/> PRINTED DOCUMENT <input type="checkbox"/> CHART <input type="checkbox"/> DIAGRAM <input type="checkbox"/> DRAWING <input type="checkbox"/> FILM (STATIC OR MOTION) <input type="checkbox"/> ILLUSTRATION <input type="checkbox"/> MODEL <input type="checkbox"/> RECORDING (TAPE OR DISC) <input type="checkbox"/> COMPUTER CARD <input type="checkbox"/> COMPUTER TAPE <input type="checkbox"/> MICROFILM (W/OR W/O CARD) <input type="checkbox"/> OTHER		<input type="checkbox"/> ABSTRACT <input type="checkbox"/> BROCHURE <input type="checkbox"/> BULLETIN <input type="checkbox"/> CATALOG <input type="checkbox"/> CONTRACT <input type="checkbox"/> DIRECTIVE <input type="checkbox"/> DISCLOSURE <input type="checkbox"/> ENGINEERING CHANGE ORDER <input type="checkbox"/> REQUEST FOR ENGINEERING CHANGE PROPOSAL <input type="checkbox"/> ENGINEERING CHANGE PROPOSAL <input type="checkbox"/> HANDBOOK <input type="checkbox"/> INDEX					
APPLICABLE STANDARDS:							
REVIEWS AND/OR APPROVALS REQUIRED: (LIST IN ORDER OF SUBMITTAL)							
		DRAFT	DATE	PREPUBLICATION PROOF		DATE	
SUBMIT FOR REVIEW TO:		_____	_____	_____		_____	
		BY	_____			BY	
		_____	_____	_____		_____	
		BY	_____			BY	
SUBMIT FOR APPROVAL TO:		<u>Project Manager</u>	_____	_____		_____	
		BY	_____			BY	
		_____	_____	_____		_____	

SPECIAL INSTRUCTIONS:

DRD NO.:
MA-009

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

The plan shall include, but not be limited to, the following:

1. Outline of Project requirements affecting organization
2. Management approach
3. Organization approach, including analyses and alternatives
4. Corporate position of the project
5. Contractor Project organization
6. Authorities and responsibilities of key contractor positions
7. Role of principal subcontractors
8. Authorities and responsibilities of key subcontractor positions
9. Project boards and working groups
10. Organizational relationships
 - a. Customer/GE
 - b. Customer/GE/GE (other than Voyager)
 - c. Customer/GE/subcontractors
11. Key personnel resumes - contractor and subcontractor

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

VOYAGER DATA REQUIREMENT DESCRIPTION				DRD APPROVED BY:		DATE:	DATA CATEGORY:	
ORGANIZATION ORIGINATING REQUIREMENT:	CODE: MA	OFFICE RESPONSIBLE FOR DRD:	CODE:	DRD PREPARED BY: R. Ginsberg	DATE: 7/28/67	CONTRACT NO.:	DRD NO.: MA-010	
TITLE OF DOCUMENT: PLAN, PROJECT COMMUNICATIONS				ORGANIZATION RESPONSIBLE FOR DOCUMENT PREPARATION: Project Control		TASK OR SUBTASK:	DRL ITEM NO.:	
				ORGANIZATION RESPONSIBLE FOR DOCUMENT REPRODUCTION:		DRL NO.:	LEVEL NO.:	
				ORGANIZATION RESPONSIBLE FOR DOCUMENT DISTRIBUTION:		DDL NO.:	FILE NO.:	
				ORGANIZATION RESPONSIBLE FOR DOCUMENT STORAGE:		NO. OF COPIES: 50		
TYPE OF DOCUMENT: <input checked="" type="checkbox"/> CONTROL <input type="checkbox"/> ACTION <input type="checkbox"/> REFERENCE <input type="checkbox"/> INFORMATION				ESTIMATED MANHOURS FOR SINGLE PREPARATION:		INFORMATION CUTOFF DATE OR MILESTONE:		
USE OF DOCUMENT: Provides uniform approach to assure rapid and accurate formal and informal communication within GE and across customer and subcontractor interfaces.				ESTIMATED COST (\$) FOR SINGLE PREPARATION:		DATE DATA DUE TO USER:		
INTERRELATIONSHIP WITH OTHER DATA REQUIREMENTS: MA-003, Project Policies, Procedures and Directives MA-008, Plan, Project Control MA-009, Plan, Organization MA-024, Report, Contact				FREQUENCY OF ISSUE: <input type="checkbox"/> ANNUALLY <input type="checkbox"/> SEMI-ANNUALLY <input type="checkbox"/> QUARTERLY <input type="checkbox"/> BI-MONTHLY <input type="checkbox"/> MONTHLY <input type="checkbox"/> SEMI-MONTHLY <input type="checkbox"/> BI-WEEKLY <input type="checkbox"/> WEEKLY <input type="checkbox"/> DAILY <input checked="" type="checkbox"/> OTHERWISE, AS SPECIFIED One time		PUBLICATION DATE: SDR		
						UPDATE (FREQUENCY OR MILESTONE): As required		
						ESTIMATED EXPIRATION DATE:		
CLASSIFICATION: <input type="checkbox"/> SECRET <input type="checkbox"/> GROUP 1 <input type="checkbox"/> CONFIDENTIAL <input type="checkbox"/> GROUP 2 <input type="checkbox"/> SPECIAL HANDLING <input type="checkbox"/> SECRET RESTRICTED DATA <input type="checkbox"/> GROUP 3 <input type="checkbox"/> NASA DISCREET <input type="checkbox"/> CONFIDENTIAL RESTRICTED DATA <input type="checkbox"/> GROUP 4 <input type="checkbox"/> JPL DISCREET <input checked="" type="checkbox"/> UNCLASSIFIED <input type="checkbox"/> PROPRIETARY <input type="checkbox"/> PROJECT DISCREET <input type="checkbox"/> PUBLIC DOMAIN <input type="checkbox"/> NOFORM								
FORM OF DATA: KIND OF DATA: <input checked="" type="checkbox"/> PRINTED DOCUMENT <input type="checkbox"/> ABSTRACT <input type="checkbox"/> INSTRUCTION <input type="checkbox"/> CHART <input type="checkbox"/> BROCHURE <input type="checkbox"/> LETTER <input type="checkbox"/> DIAGRAM <input type="checkbox"/> BULLETIN <input type="checkbox"/> LIST <input type="checkbox"/> DRAWING <input type="checkbox"/> CATALOG <input type="checkbox"/> LOG <input type="checkbox"/> FILM (STATIC OR MOTION) <input type="checkbox"/> CONTRACT <input type="checkbox"/> MANUAL <input type="checkbox"/> ILLUSTRATION <input type="checkbox"/> DIRECTIVE <input type="checkbox"/> MEMORANDUM <input type="checkbox"/> MODEL <input type="checkbox"/> DISCLOSURE <input type="checkbox"/> MINUTES <input type="checkbox"/> RECORDING (TAPE OR DISC) <input type="checkbox"/> ENGINEERING CHANGE ORDER <input checked="" type="checkbox"/> PLAN <input type="checkbox"/> COMPUTER CARD <input type="checkbox"/> REQUEST FOR ENGINEERING CHANGE PROPOSAL <input type="checkbox"/> PROCEDURE <input type="checkbox"/> COMPUTER TAPE <input type="checkbox"/> ENGINEERING CHANGE PROPOSAL <input type="checkbox"/> REGULATION <input type="checkbox"/> MICROFILM (W/OR W/O CARD) <input type="checkbox"/> ENGINEERING CHANGE PROPOSAL <input type="checkbox"/> REPORT <input type="checkbox"/> OTHER <input type="checkbox"/> ENGINEERING CHANGE PROPOSAL <input type="checkbox"/> SCHEDULE _____ <input type="checkbox"/> HANDBOOK <input type="checkbox"/> SPECIFICATION _____ <input type="checkbox"/> INDEX <input type="checkbox"/> STANDARD _____ <input type="checkbox"/> VOUCHER				REFERENCE DOCUMENTS: Customer Organization Plan				
				APPLICABLE STANDARDS:				
REVIEWS AND/OR APPROVALS REQUIRED: (LIST IN ORDER OF SUBMITTAL)								
		DRAFT			DATE			
SUBMIT FOR REVIEW TO: _____			_____			_____		
			BY			BY		
_____			_____			_____		
_____			_____			_____		
SUBMIT FOR APPROVAL TO: Project Manager			BY			BY		
_____			_____			_____		
_____			_____			_____		

SPECIAL INSTRUCTIONS:

DRD NO.:

MA-010

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

The plan will provide procedures for meeting the Project need for complete visibility of the GE effort, timely response to customer direction, and efficiency in maintaining rapid communication among all Project elements. The plan shall include, but not be limited to, the following:

1. Definition of the customer areas which will provide direction to the contractor
2. Definition of the primary communication channels between the customer, contractor and subcontractors
 - a. Top management channel
 - b. Overall Project direction channel
 - c. Customer cognizant engineer/contractor cog engineer channel
 - d. Customer cog engineer/contractor project engineer channel
 - e. Project control center channel
 - f. Contracts/business management channel
3. Procedures to assure direct accessibility of contractor engineers at all levels to the customer.
4. Identification of channels for direct and rapid access to any element of the project by the customer.

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

GE EXHIBIT DRD MA-010

5. Procedures that assure proper integration of all customer direction from a contractual and technical standpoint
6. Policies for establishment of customer liaison offices at contractor and sub-contractor plants
7. Definition of the role of the satellite Engineering Offices
8. Definition of the hardwire communication system (customer, contractor and subcontractor)
 - a. TWX
 - b. Leased telephone
 - c. Datafax
 - d. Desk-side computer
9. Procedures for operation of the high-speed parcel delivery system

SPECIAL INSTRUCTIONS:

DRD NO.:

MA-011

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

The plan shall be formulated to assure the safeguard of all classified elements of the contract and to provide and maintain a system of organizational security controls. The plan shall be in accordance with the Security Agreement and the Industrial Security Manual for Safeguarding Classified Information in effect on the date of the contract. At a minimum, the plan shall provide procedures for:

1. Classification
2. Protection of classified documents
3. Personnel education
4. Personnel and facility clearances
5. Communications
6. Area controls
7. Visitor controls
8. Transportation and handling

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

DRD NO.:

MA-012

SPECIAL INSTRUCTIONS:

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

The plan shall outline the facility requirements and describe the available and planned facilities and intended usage for both the contractor and principal/major subcontractors in the following categories:

Category I - Contractor-Owned Facilities

Category II - Government-Owned Facilities

Category I - Facilities shall include, but not be limited to, the following:

Project Control Center

Parts Lab (including Magnetic Station)

Materials R&D Lab

Standards and Calibration Labs

Quality Assurance Materials and Processes Lab

Receiving, Inspection, and Shipping

Machine and Sheet Metal Shops

Pneumatics Assembly and Clean Environment Facility

Electronics Shop and Harness Fabrication

Manufacturing Engineering Development Lab

Component Environmental Lab

Morgantown Facility

Guidance and Control Lab

Space Power and Battery Lab

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

GE EXHIBIT DRD MA-012

Data Processing Center
Thermal Lab
Structures Lab
Pyro Area
Antenna Range
EMI Lab
Dual C-210 Facility
Portable Multi-Head Facility
Space/Solar Environmental Facility
Thermal Vacuum Facilities
Acoustic Facilities
Clean Assembly and Test Area
Spacecraft Assembly and Test Facility
Spacecraft Magnetic Evaluation Station

Category II-Facilities shall include, but not be limited to the following:

Facilities similar to those described above in Category I
Launch Operations Facilities
Mission Operation Phase Facilities

The plan shall include a loading analysis and usage schedule and shall provide current and required availability/modification dates.

VOYAGER DATA REQUIREMENT DESCRIPTION				DRD APPROVED BY:		DATE:	DATA CATEGORY:
ORGANIZATION ORIGINATING REQUIREMENT:	CODE: MA	OFFICE RESPONSIBLE FOR DRD:	CODE:	DRD PREPARED BY: H. H. Dow	DATE: 7/28/67	CONTRACT NO.:	DRD NO.: MA-013
TITLE OF DOCUMENT: REPORT, FINAL PROJECT				ORGANIZATION RESPONSIBLE FOR DOCUMENT PREPARATION: Project Control		TASK OR SUBTASK:	DRL ITEM NO.:
				ORGANIZATION RESPONSIBLE FOR DOCUMENT REPRODUCTION:		DRL NO.:	LEVEL NO.:
TYPE OF DOCUMENT: <input type="checkbox"/> CONTROL <input type="checkbox"/> ACTION <input type="checkbox"/> REFERENCE <input checked="" type="checkbox"/> INFORMATION				ORGANIZATION RESPONSIBLE FOR DOCUMENT DISTRIBUTION:		DDL NO.:	FILE NO.:
USE OF DOCUMENT: To document and summarize the results of the entire contracted Project work for the information and use of customer and subcontractor Project and corporate management.				ORGANIZATION RESPONSIBLE FOR DOCUMENT STOWAGE:		NO. OF COPIES: 40	
				ESTIMATED MANHOURS FOR SINGLE PREPARATION:		INFORMATION CUTOFF DATE OR MILESTONE:	
INTERRELATIONSHIP WITH OTHER DATA REQUIREMENTS: LS-023, Report, Logistics Summary MA-008, Plan, Project Control TE-166, Report, Test Program Summary				ESTIMATED COST (\$) FOR SINGLE PREPARATION:		DATE DATA DUE TO USER:	
				FREQUENCY OF ISSUE: <input type="checkbox"/> ANNUALLY <input type="checkbox"/> SEMI-ANNUALLY <input type="checkbox"/> QUARTERLY <input type="checkbox"/> BI-MONTHLY <input type="checkbox"/> MONTHLY <input type="checkbox"/> SEMI-MONTHLY <input type="checkbox"/> BI-WEEKLY <input type="checkbox"/> WEEKLY <input type="checkbox"/> DAILY <input checked="" type="checkbox"/> OTHERWISE, AS SPECIFIED One time		PUBLICATION DATE: End of Project	
CLASSIFICATION:				NO. OF COPIES:		ESTIMATED EXPIRATION DATE:	
<input type="checkbox"/> SECRET <input type="checkbox"/> CONFIDENTIAL <input type="checkbox"/> SECRET RESTRICTED DATA <input type="checkbox"/> CONFIDENTIAL RESTRICTED DATA <input checked="" type="checkbox"/> UNCLASSIFIED		<input type="checkbox"/> GROUP 1 <input type="checkbox"/> GROUP 2 <input type="checkbox"/> GROUP 3 <input type="checkbox"/> GROUP 4 <input type="checkbox"/> PROPRIETARY <input type="checkbox"/> PUBLIC DOMAIN		<input type="checkbox"/> SPECIAL HANDLING <input type="checkbox"/> NASA DISCREET <input type="checkbox"/> JPL DISCREET <input type="checkbox"/> PROJECT DISCREET <input type="checkbox"/> NOFORN		Update (FREQUENCY OR MILESTONE): Not applicable	
FORM OF DATA:		KIND OF DATA:		REFERENCE DOCUMENTS:			
<input checked="" type="checkbox"/> PRINTED DOCUMENT <input type="checkbox"/> CHART <input type="checkbox"/> DIAGRAM <input type="checkbox"/> DRAWING <input type="checkbox"/> FILM (STATIC OR MOTION) <input type="checkbox"/> ILLUSTRATION <input type="checkbox"/> MODEL <input type="checkbox"/> RECORDING (TAPE OR DISC) <input type="checkbox"/> COMPUTER CARD <input type="checkbox"/> COMPUTER TAPE <input type="checkbox"/> MICROFILM (W/OR W/O CARD) <input type="checkbox"/> OTHER		<input type="checkbox"/> ABSTRACT <input type="checkbox"/> BROCHURE <input type="checkbox"/> BULLETIN <input type="checkbox"/> CATALOG <input type="checkbox"/> CONTRACT <input type="checkbox"/> DIRECTIVE <input type="checkbox"/> DISCLOSURE <input type="checkbox"/> ENGINEERING CHANGE ORDER <input type="checkbox"/> REQUEST FOR ENGINEERING CHANGE PROPOSAL <input type="checkbox"/> ENGINEERING CHANGE PROPOSAL <input type="checkbox"/> HANDBOOK <input type="checkbox"/> INDEX					
APPLICABLE STANDARDS:				APPLICABLE STANDARDS:			
REVIEWS AND/OR APPROVALS REQUIRED: (LIST IN ORDER OF SUBMITTAL)							
		DRAFT	DATE	PREPUBLICATION PROOF		DATE	
SUBMIT FOR REVIEW TO:		_____	_____	_____		_____	
		BY	_____	BY		_____	
		_____	_____	_____		_____	
		BY	_____	BY		_____	
SUBMIT FOR APPROVAL TO:		Project Manager	_____	_____		_____	
		BY	_____	BY		_____	
		_____	_____	_____		_____	

SPECIAL INSTRUCTIONS:

DRD NO.:

MA-013

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

1. This final report shall document and summarize the results of the entire contracted Project work. The text of the report shall be augmented, as appropriate, with photographs, drawings, tables, diagrams, sketches, graphs, and curves, in sufficient detail to describe the results achieved and the conclusions to be drawn from the work accomplished.
2. The report shall provide, at a minimum:
 - a. A narrative summary of the items (hardware and software) delivered, including all major milestones.
 - b. Details of all major problem areas encountered, their resolution, and their effect on the planned effort.
 - c. Recommendations and conclusions based on the experiences and results obtained.

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

GE EXHIBIT DRD MA-014

VOYAGER DATA REQUIREMENT DESCRIPTION				DRD APPROVED BY:		DATE:	DATA CATEGORY:
ORGANIZATION ORIGINATING REQUIREMENT:	CODE: MA	OFFICE RESPONSIBLE FOR DRD:	CODE:	DRD PREPARED BY: H. H. Dow	DATE: 7/28/67	CONTRACT NO.:	DRD NO.: MA-014
TITLE OF DOCUMENT: *REPORT, PROJECT REVIEW				ORGANIZATION RESPONSIBLE FOR DOCUMENT PREPARATION: Project Control		TASK OR SUBTASK:	DRL ITEM NO.:
				ORGANIZATION RESPONSIBLE FOR DOCUMENT REPRODUCTION:		DRL NO.:	LEVEL NO.:
				ORGANIZATION RESPONSIBLE FOR DOCUMENT DISTRIBUTION:		DDL NO.:	FILE NO.:
TYPE OF DOCUMENT: <input type="checkbox"/> CONTROL <input type="checkbox"/> ACTION <input type="checkbox"/> REFERENCE <input checked="" type="checkbox"/> INFORMATION				ORGANIZATION RESPONSIBLE FOR DOCUMENT STORAGE:		NO. OF COPIES: 20	
USE OF DOCUMENT: To document and provide for the information of the cognizant customer agency and of the contractor's Project management the results of periodic major Project reviews, i. e., SDR, PDR, HDR, CDR, FACI, MAR, Quarterly Reviews, Technical Direction Reviews				ESTIMATED MANHOURS FOR SINGLE PREPARATION:		INFORMATION CUTOFF DATE OR MILESTONE:	
				ESTIMATED COST (\$) FOR SINGLE PREPARATION:		DATE DATA DUE TO USER:	
INTERRELATIONSHIP WITH OTHER DATA REQUIREMENTS: MA-008, Plan, Project Control				FREQUENCY OF ISSUE: <input type="checkbox"/> ANNUALLY <input type="checkbox"/> SEMI-ANNUALLY <input type="checkbox"/> QUARTERLY <input type="checkbox"/> BI-MONTHLY <input type="checkbox"/> MONTHLY <input type="checkbox"/> SEMI-MONTHLY <input type="checkbox"/> BI-WEEKLY <input type="checkbox"/> WEEKLY <input type="checkbox"/> DAILY <input checked="" type="checkbox"/> OTHERWISE, AS SPECIFIED As required		PUBLICATION DATE: Each major Project review UPDATE (FREQUENCY OR MILESTONE): Not applicable	
				ESTIMATED EXPIRATION DATE:			
CLASSIFICATION:				<input type="checkbox"/> GROUP 1 <input type="checkbox"/> SPECIAL HANDLING <input type="checkbox"/> GROUP 2 <input type="checkbox"/> NASA DISCREET <input type="checkbox"/> GROUP 3 <input type="checkbox"/> JPL DISCREET <input type="checkbox"/> GROUP 4 <input type="checkbox"/> PROJECT DISCREET <input type="checkbox"/> PROPRIETARY <input type="checkbox"/> NOFORN <input type="checkbox"/> PUBLIC DOMAIN			
<input type="checkbox"/> SECRET <input type="checkbox"/> CONFIDENTIAL <input type="checkbox"/> SECRET RESTRICTED DATA <input type="checkbox"/> CONFIDENTIAL RESTRICTED DATA <input checked="" type="checkbox"/> UNCLASSIFIED							
FORM OF DATA:		KIND OF DATA:		REFERENCE DOCUMENTS:			
<input checked="" type="checkbox"/> PRINTED DOCUMENT <input type="checkbox"/> CHART <input type="checkbox"/> DIAGRAM <input type="checkbox"/> DRAWING <input type="checkbox"/> FILM (STATIC OR MOTION) <input type="checkbox"/> ILLUSTRATION <input type="checkbox"/> MODEL <input type="checkbox"/> RECORDING (TAPE OR DISC) <input type="checkbox"/> COMPUTER CARD <input type="checkbox"/> COMPUTER TAPE <input type="checkbox"/> MICROFILM (W/OR W/O CARD) <input type="checkbox"/> OTHER		<input type="checkbox"/> ABSTRACT <input type="checkbox"/> BROCHURE <input type="checkbox"/> BULLETIN <input type="checkbox"/> CATALOG <input type="checkbox"/> CONTRACT <input type="checkbox"/> DIRECTIVE <input type="checkbox"/> DISCLOSURE <input type="checkbox"/> ENGINEERING CHANGE ORDER <input type="checkbox"/> REQUEST FOR ENGINEERING CHANGE PROPOSAL <input type="checkbox"/> ENGINEERING CHANGE PROPOSAL <input type="checkbox"/> HANDBOOK <input type="checkbox"/> INDEX		<input type="checkbox"/> INSTRUCTION <input type="checkbox"/> LETTER <input type="checkbox"/> LIST <input type="checkbox"/> LOG <input type="checkbox"/> MANUAL <input type="checkbox"/> MEMORANDUM <input type="checkbox"/> MINUTES <input type="checkbox"/> PLAN <input type="checkbox"/> PROCEDURE <input type="checkbox"/> REGULATION <input checked="" type="checkbox"/> REPORT <input type="checkbox"/> SCHEDULE <input type="checkbox"/> SPECIFICATION <input type="checkbox"/> STANDARD <input type="checkbox"/> VOUCHER			
				APPLICABLE STANDARDS:			
REVIEWS AND/OR APPROVALS REQUIRED: (LIST IN ORDER OF SUBMITTAL)							
		DRAFT	DATE	PREPUBLICATION	PROOF	DATE	
SUBMIT FOR REVIEW TO:		_____	_____	_____	_____	_____	
		BY	_____	BY	_____	_____	
		_____	_____	_____	_____	_____	
		BY	_____	BY	_____	_____	
SUBMIT FOR APPROVAL TO:		_____	_____	_____	_____	_____	
		BY	_____	BY	_____	_____	
		Project Manager	_____	_____	_____	_____	

VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

DRD NO.:

MA-014

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

1. This report documents and summarizes the results of each periodic project review meeting.
2. The reports shall include at a minimum:
 - a. All significant events and items discussed.
 - b. All major project problems discussed and, where applicable, the decision or action taken on each item.
 - c. Requests for data along with resultant commitments.
 - d. Progress on tasks and deliverable products during the period since the previous project review.
3. Reports documented in accordance with this DRD shall cover those for major project reviews such as critical project reviews, quarterly reviews and technical director reviews.

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

DRD NO.:

MA-015

SPECIAL INSTRUCTIONS:

1. The report may comprise a Project summary section together with attached problem reports (prepared in accordance with the outlined format herein) for the respective functional and performing areas.

2. "Critical" problems shall be reported to the customer by TWX as they arise, when so identified, and shall be documented in detail in the next issue of the Project problem report.

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

1. These problem reports shall provide a current list of project problems categorized in severity as follows:

- a. Critical, requiring immediate action without which resultant work stoppage or major project milestone slip will occur
- b. Urgent, requiring action by a scheduled date, beyond which it will become critical
- c. Routine, requiring resolution, but a scheduled resolution date is not yet needed to prevent its becoming urgent
- d. Resolved, those resolved during the reporting period, and now removed from the critical, urgent, or routine categories, including reportable problems arising, but already resolved during the report period

2. The following data shall be shown for each problem item reported:

- a. The scheduled date for its resolution
- b. The last date beyond which a major project milestone must as a result be slipped - for its resolution
- c. The individual (contractor) assigned responsibility for its resolution
- d. The interfacing activities and/or milestones affected by the problem
- e. The severity category into which the problem currently falls
- f. The proposed solution, if any, and the required actions and the action organization, if determined

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

SPECIAL INSTRUCTIONS:

DRD NO.:

MA-016

The report may comprise a project summary section together with attached progress reports for the respective functional and performing areas.

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

1. These periodic progress reports shall provide a detailed description of the significant progress accomplished in all major project areas, as compared to that forecasted, for the reporting period.
2. The reports shall highlight the significant events, detail all notable accomplishments in the performing areas, discuss current problems that may delay planned performance along with proposed corrective actions, and include a forecast of tasks to be continued, to be started, and to be completed in each functional and performing area.
3. The report shall be categorized to provide the progress of all Project areas such as:
 - a. Project management (configuration, technical, administration, data, subcontractor)
 - b. Design (for each subsystem)
 - c. Manufacturing
 - d. Procurement
 - e. Quality Assurance
 - f. Reliability Assurance
 - g. Testing
 - h. Facilities

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

DRD NO.:
MA-017

SPECIAL INSTRUCTIONS:

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

Project review schedule and agenda reports will be prepared sufficiently in advance of the scheduled meetings to allow adequate time for review and concurrence by all participants. The schedule and agenda shall contain, as a minimum, the following:

1. Subject of meeting
2. Date, time and place
3. Summary of items to be covered and actions expected
4. Personnel to attend
5. Required preparation
6. Supporting information or references
7. Meeting chairman and other contacts
8. Visit arrangements

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

DRD NO.:
MA-018

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

1. Motion picture photographic coverage shall consist of, but not be limited to, highlight aspects of the Project. Subject matter shall consist of, but not be limited to, the following:
 - a. Design and development
 - b. Contractor facilities
 - c. Mock-up and models during development phases
 - d. Hardware fabrication
 - e. Test activities
 - f. Project milestones, major events and subjects
 - g. Training
 - h. Field activities
 - i. Project related events and subjects
2. Photographic coverage of functions of principal and major subcontractors shall also be included.
3. Subject matter shall include coverage of unsuccessful results and partial successes as well as successful event coverage.

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

GE EXHIBIT DRD MA-018

4. Photography shall be in color, exposed at 24 frames per second, except in instances where the capability of the color film or the speed of the action would be detrimental to the accomplishment of the objectives of the photographic coverage.
5. Coverage shall be with 16mm Ektachrome commercial film.
6. The original film exposed in connection with the contract shall not be cut, except to remove the following:
 - a. Instrumentation footage such as dial readings and oscillography
 - b. Excessive footage of one subject from the same camera angle
 - c. Unsatisfactory "takes" from a technical photographic standpoint
7. Input shall normally contain a minimum of 300 to 400 feet of film and shall consist of the original exposed film.
8. Each input shall be accompanied by two typewritten "Shot Lists," identifying each scene by length and content and by a "Subject Description," explaining the subject matter of the input and its relationship to the overall project.
9. All scenes shall be adequately stated with contractor identification, date photographed, scene, and take number.

SPECIAL INSTRUCTIONS:

DRD NO.:

MA-019

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

1. The Quarterly Written Report shall be a summation for management of the significant items contained in each of the monthly progress reports for the period covered.
2. These periodic progress reports shall provide a summarized description of the significant progress accomplished in all major project areas, as compared to that forecasted, for the reporting period.
3. The reports shall highlight the significant events, summarize all notable accomplishments in the performing areas, discuss current problems that may delay planned performance along with proposed corrective actions, and include a forecast of tasks to be continued, to be started, and to be completed in each functional and performing area.
4. The report shall be categorized to provide the progress of all Project areas such as:
 - a. Project management (configuration, technical, administration, data, subcontractor)
 - b. Design (for each subsystem)
 - c. Manufacturing
 - d. Procurement
 - e. Quality Assurance
 - f. Reliability Assurance
 - g. Testing
 - h. Facilities

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

GE EXHIBIT DRD MA-020

VOYAGER DATA REQUIREMENT DESCRIPTION				DRD APPROVED BY:		DATE:	DATA CATEGORY:
ORGANIZATION ORIGINATING REQUIREMENT:	CODE: MA	OFFICE RESPONSIBLE FOR DRD:	CODE:	DRD PREPARED BY: R. Ginsberg	DATE: 7/28/67	CONTRACT NO.:	DRD NO.: MA-020
TITLE OF DOCUMENT: REPORT, RESOURCE REQUIREMENTS/AVAILABILITY				ORGANIZATION RESPONSIBLE FOR DOCUMENT PREPARATION: Facilities/Finance		TASK OR SUBTASK:	DRL ITEM NO.:
				ORGANIZATION RESPONSIBLE FOR DOCUMENT REPRODUCTION:		DRL NO.:	LEVEL NO.:
				ORGANIZATION RESPONSIBLE FOR DOCUMENT DISTRIBUTION:		DDL NO.:	FILE NO.:
TYPE OF DOCUMENT: <input type="checkbox"/> CONTROL <input type="checkbox"/> ACTION <input type="checkbox"/> REFERENCE <input checked="" type="checkbox"/> INFORMATION				ORGANIZATION RESPONSIBLE FOR DOCUMENT STOWAGE:		NO OF COPIES: 20	
USE OF DOCUMENT: Provides Project management a comparison of resource requirements of manpower, facilities and funds versus availability. Identifies problem areas and possible solutions.				ESTIMATED MANHOURS FOR SINGLE PREPARATION:		INFORMATION CUTOFF DATE OR MILESTONE:	
INTERRELATIONSHIP WITH OTHER DATA REQUIREMENTS: MA-007, Plan, Project Implementation MA-012, Plan, Facility MG-009, Plan, Manufacturing PC-002, Report, Contract Status TE-001, Plan, Integrated Test				ESTIMATED COST (\$) FOR SINGLE PREPARATION:		DATE DATA DUE TO USER:	
				FREQUENCY OF ISSUE: <input type="checkbox"/> ANNUALLY <input type="checkbox"/> SEMI-ANNUALLY <input type="checkbox"/> QUARTERLY <input type="checkbox"/> BI-MONTHLY <input checked="" type="checkbox"/> MONTHLY <input type="checkbox"/> SEMI-MONTHLY <input type="checkbox"/> BI-WEEKLY <input type="checkbox"/> WEEKLY <input type="checkbox"/> DAILY <input type="checkbox"/> OTHERWISE, AS SPECIFIED		PUBLICATION DATE: SDR	
						UPDATE (FREQUENCY OR MILESTONE): Not applicable	
CLASSIFICATION: <input type="checkbox"/> SECRET <input type="checkbox"/> GROUP 1 <input type="checkbox"/> SPECIAL HANDLING <input type="checkbox"/> CONFIDENTIAL <input type="checkbox"/> GROUP 2 <input type="checkbox"/> NASA DISCREET <input type="checkbox"/> SECRET RESTRICTED DATA <input type="checkbox"/> GROUP 3 <input type="checkbox"/> JPL DISCREET <input type="checkbox"/> CONFIDENTIAL RESTRICTED DATA <input type="checkbox"/> GROUP 4 <input type="checkbox"/> PROJECT DISCREET <input checked="" type="checkbox"/> UNCLASSIFIED <input type="checkbox"/> PROPRIETARY <input type="checkbox"/> NOFORN <input type="checkbox"/> PUBLIC DOMAIN						ESTIMATED EXPIRATION DATE:	
FORM OF DATA: <input checked="" type="checkbox"/> PRINTED DOCUMENT <input type="checkbox"/> CHART <input type="checkbox"/> DIAGRAM <input type="checkbox"/> DRAWING <input type="checkbox"/> FILM (STATIC OR MOTION) <input type="checkbox"/> ILLUSTRATION <input type="checkbox"/> MODEL <input type="checkbox"/> RECORDING (TAPE OR DISC) <input type="checkbox"/> COMPUTER CARD <input type="checkbox"/> COMPUTER TAPE <input type="checkbox"/> MICROFILM (W/OR W/O CARD) <input type="checkbox"/> OTHER		KIND OF DATA: <input type="checkbox"/> ABSTRACT <input type="checkbox"/> INSTRUCTION <input type="checkbox"/> BROCHURE <input type="checkbox"/> LETTER <input type="checkbox"/> BULLETIN <input type="checkbox"/> LIST <input type="checkbox"/> CATALOG <input type="checkbox"/> LOG <input type="checkbox"/> CONTRACT <input type="checkbox"/> MANUAL <input type="checkbox"/> DIRECTIVE <input type="checkbox"/> MEMORANDUM <input type="checkbox"/> DISCLOSURE <input type="checkbox"/> MINUTES <input type="checkbox"/> ENGINEERING CHANGE ORDER <input type="checkbox"/> PLAN <input type="checkbox"/> REQUEST FOR ENGINEERING CHANGE PROPOSAL <input checked="" type="checkbox"/> REPORT <input type="checkbox"/> ENGINEERING CHANGE PROPOSAL <input type="checkbox"/> SCHEDULE <input type="checkbox"/> HANDBOOK <input type="checkbox"/> SPECIFICATION <input type="checkbox"/> INDEX <input type="checkbox"/> STANDARD <input type="checkbox"/> VOUCHER		REFERENCE DOCUMENTS:			
				APPLICABLE STANDARDS:			
REVIEWS AND/OR APPROVALS REQUIRED: (LIST IN ORDER OF SUBMITTAL)							
		DRAFT	DATE	PREPUBLICATION PROOF		DATE	
SUBMIT FOR REVIEW TO:		_____	_____	_____		_____	
		_____	_____	_____		_____	
		_____	_____	_____		_____	
		_____	_____	_____		_____	
SUBMIT FOR APPROVAL TO:		Project Manager	_____	_____		_____	
		_____	_____	_____		_____	

DRD NO.:
MA-020

SPECIAL INSTRUCTIONS:

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

The Resource Requirements/Availability Report will provide resource status data and identification of problem areas which have a significant effect on Project progress and which requires action/resolution by Project management. The report shall include, as a minimum, the following:

1. Comparison of requirements versus availability of the following for the period covered.
 - a. Manpower
 - b. Facilities and equipment
 - c. Funding
2. A projection of future requirements versus availability as above.
3. A description of current and anticipated problem areas with possible solutions defined for each. Typical of the problem areas and solutions which may be derived are as follows:

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

- a. Conflicting requirements for the same test facility at the same time will be identified. The solution may involve rescheduling one or more tests, use of an alternate facility, combining tests, or other arrangements. Effects of each alternative on technical adequacy, manpower, schedules, and cost will be evaluated in arriving at the solution.
 - b. Planning may indicate a very high level of effort in a particular group for a short period of time due to several jobs being performed at the same time. Rescheduling may permit sequential performance of these jobs without significant overall schedule effect.
 - c. Critical paths indicated by PERT planning may be relieved by diverting effort to paths with ample slack time.
 - d. Pacing items will be identified. These might include facility construction, manpower build-up, training, availability of interface information, or other factors. Tradeoffs will be made between possible ways to expedite such items and other scheduling adjustments or alternate approaches which may compensate for, or circumvent, the limitations they appear to impose. In each case, technical and cost effects will be evaluated, as well as schedule effects.
4. The report shall also highlight similar areas for principal and major subcontractors as appropriate.

GE EXHIBIT DRD MA-021

VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

DRD NO.:

MA-021

SPECIAL INSTRUCTIONS:

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

The Weekly Activity Report will be a brief summary report of the weekly status reports required in-house for each work package. Reports by work package will be at the level agreed to between the customer and contractor. Particular attention will be paid to current and anticipated problem areas, potential slips in scheduled dates, and those significant items which are not available from a routine printout of the Project data bank. Similar information from principal and major subcontractors will be included in the report as appropriate.

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

GE EXHIBIT DRD MA-022

VOYAGER DATA REQUIREMENT DESCRIPTION				DRD APPROVED BY:		DATE:	DATA CATEGORY:							
ORGANIZATION ORIGINATING REQUIREMENT:		CODE: MA	OFFICE RESPONSIBLE FOR DRD:	CODE:	DRD PREPARED BY: R. Ginsberg	DATE: 7/28/67	CONTRACT NO.:	DRD NO.: MA-022						
TITLE OF DOCUMENT: REPORT, SCHEDULE/COST COUPLING SUMMARY					ORGANIZATION RESPONSIBLE FOR DOCUMENT PREPARATION: Project Control		TASK OR SUBTASK:	DRL ITEM NO.:						
					ORGANIZATION RESPONSIBLE FOR DOCUMENT REPRODUCTION:		DRL NO.:	LEVEL NO.:						
					ORGANIZATION RESPONSIBLE FOR DOCUMENT DISTRIBUTION:		DDL NO.:	FILE NO.:						
					TYPE OF DOCUMENT: <input type="checkbox"/> CONTROL <input type="checkbox"/> ACTION <input type="checkbox"/> REFERENCE <input checked="" type="checkbox"/> INFORMATION									
USE OF DOCUMENT: Correlates and summarizes cost, schedule and technical trend data at the task and subtask level in a single report. Provides Project management with an overall perspective of cost/schedule effectiveness.					ORGANIZATION RESPONSIBLE FOR DOCUMENT STORAGE:		NO. OF COPIES: 20							
INTERRELATIONSHIP WITH OTHER DATA REQUIREMENTS: MA-008, Plan, Project Control MA-022, Report, Schedule/Cost Coupling					ESTIMATED MANHOURS FOR SINGLE PREPARATION:		INFORMATION CUTOFF DATE OR MILESTONE:							
					ESTIMATED COST (\$) FOR SINGLE PREPARATION:		DATE DATA DUE TO USER:							
					FREQUENCY OF ISSUE: <input type="checkbox"/> ANNUALLY <input type="checkbox"/> SEMI-ANNUALLY <input type="checkbox"/> QUARTERLY <input type="checkbox"/> BI-MONTHLY <input checked="" type="checkbox"/> MONTHLY <input type="checkbox"/> SEMI-MONTHLY <input type="checkbox"/> BI-WEEKLY <input type="checkbox"/> WEEKLY <input type="checkbox"/> DAILY <input type="checkbox"/> OTHERWISE, AS SPECIFIED		PUBLICATION DATE: SDR							
CLASSIFICATION: <input type="checkbox"/> SECRET <input type="checkbox"/> CONFIDENTIAL <input type="checkbox"/> SECRET RESTRICTED DATA <input type="checkbox"/> CONFIDENTIAL RESTRICTED DATA <input checked="" type="checkbox"/> UNCLASSIFIED					<input type="checkbox"/> GROUP 1 <input type="checkbox"/> GROUP 2 <input type="checkbox"/> GROUP 3 <input type="checkbox"/> GROUP 4 <input type="checkbox"/> PROPRIETARY <input type="checkbox"/> PUBLIC DOMAIN		<input type="checkbox"/> SPECIAL HANDLING <input type="checkbox"/> NASA DISCREET <input type="checkbox"/> JPL DISCREET <input type="checkbox"/> PROJECT DISCREET <input type="checkbox"/> NOFORN							
FORM OF DATA: <input checked="" type="checkbox"/> PRINTED DOCUMENT <input type="checkbox"/> CHART <input type="checkbox"/> DIAGRAM <input type="checkbox"/> DRAWING <input type="checkbox"/> FILM (STATIC OR MOTION) <input type="checkbox"/> ILLUSTRATION <input type="checkbox"/> MODEL <input type="checkbox"/> RECORDING (TAPE OR DISC) <input type="checkbox"/> COMPUTER CARD <input type="checkbox"/> COMPUTER TAPE <input type="checkbox"/> MICROFILM (W/OR W/O CARD) <input type="checkbox"/> OTHER					KIND OF DATA: <input type="checkbox"/> ABSTRACT <input type="checkbox"/> BROCHURE <input type="checkbox"/> BULLETIN <input type="checkbox"/> CATALOG <input type="checkbox"/> CONTRACT <input type="checkbox"/> DIRECTIVE <input type="checkbox"/> DISCLOSURE <input type="checkbox"/> ENGINEERING CHANGE ORDER <input type="checkbox"/> REQUEST FOR ENGINEERING CHANGE PROPOSAL <input type="checkbox"/> ENGINEERING CHANGE PROPOSAL <input type="checkbox"/> HANDBOOK <input type="checkbox"/> INDEX					REFERENCE DOCUMENTS:				
					APPLICABLE STANDARDS:									
REVIEWS AND/OR APPROVALS REQUIRED: (LIST IN ORDER OF SUBMITTAL)														
SUBMIT FOR REVIEW TO:			DRAFT	DATE	PREPUBLICATION	PROOF	DATE							
_____				_____	_____	_____	_____							
_____			BY	_____	_____	_____	BY	_____						
_____				_____	_____	_____		_____						
SUBMIT FOR APPROVAL TO:														
Project Manager			BY	_____	_____	_____	BY	_____						

DRD NO.:

MA-022

SPECIAL INSTRUCTIONS:

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

The Schedule/Cost Coupling Summary Report will be a computerized summation of the Schedule/Cost Coupling Report using the same format. Summary will be by subtask, task, phase, Project and by performing operation and section.

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

GE EXHIBIT DRD MA-023

VOYAGER DATA REQUIREMENT DESCRIPTION				DRD APPROVED BY:		DATE:	DATA CATEGORY:
ORGANIZATION ORIGINATING REQUIREMENT:	CODE: MA	OFFICE RESPONSIBLE FOR DRD:	CODE:	DRD PREPARED BY: R. Ginsberg	DATE: 7/28/67	CONTRACT NO.:	DRD NO.: MA-023
TITLE OF DOCUMENT: *REPORT, SCHEDULE/COST COUPLING				ORGANIZATION RESPONSIBLE FOR DOCUMENT PREPARATION: Project Control		TASK OR SUBTASK:	DRL ITEM NO.:
				ORGANIZATION RESPONSIBLE FOR DOCUMENT REPRODUCTION:		DRL NO.:	LEVEL NO.:
				ORGANIZATION RESPONSIBLE FOR DOCUMENT DISTRIBUTION:		DDL NO.:	FILE NO.:
TYPE OF DOCUMENT: <input type="checkbox"/> CONTROL <input type="checkbox"/> ACTION <input type="checkbox"/> REFERENCE <input checked="" type="checkbox"/> INFORMATION				ORGANIZATION RESPONSIBLE FOR DOCUMENT STORAGE:		NO. OF COPIES: 20	
USE OF DOCUMENT: Correlates cost, schedule and technical trend data at the work package and performing component level in a single report and from several viewpoints. Enables cognizant engineers, component managers and project control to anticipate potential trouble areas and appraise Project management.				ESTIMATED MANHOURS FOR SINGLE PREPARATION:		INFORMATION CUTOFF DATE OR MILESTONE:	
INTERRELATIONSHIP WITH OTHER DATA REQUIREMENTS: MA-002, Instruction, Project Funding (PFI) MA-008, Plan, Project Control MF-001, Report, Material Commitment MF-004, Report, Vouchered Hours				ESTIMATED COST (\$) FOR SINGLE PREPARATION:		DATE DATA DUE TO USER:	
				FREQUENCY OF ISSUE: <input type="checkbox"/> ANNUALLY <input type="checkbox"/> SEMI-ANNUALLY <input type="checkbox"/> QUARTERLY <input type="checkbox"/> BI-MONTHLY <input type="checkbox"/> MONTHLY <input type="checkbox"/> SEMI-MONTHLY <input type="checkbox"/> BI-WEEKLY <input checked="" type="checkbox"/> WEEKLY <input type="checkbox"/> DAILY <input type="checkbox"/> OTHERWISE, AS SPECIFIED		PUBLICATION DATE: SDR	
CLASSIFICATION: <input type="checkbox"/> SECRET <input type="checkbox"/> GROUP 1 <input type="checkbox"/> CONFIDENTIAL <input type="checkbox"/> GROUP 2 <input type="checkbox"/> SPECIAL HANDLING <input type="checkbox"/> SECRET RESTRICTED DATA <input type="checkbox"/> GROUP 3 <input type="checkbox"/> NASA DISCREET <input type="checkbox"/> CONFIDENTIAL RESTRICTED DATA <input type="checkbox"/> GROUP 4 <input type="checkbox"/> JPL DISCREET <input checked="" type="checkbox"/> UNCLASSIFIED <input type="checkbox"/> PROPRIETARY <input type="checkbox"/> PROJECT DISCREET <input type="checkbox"/> PUBLIC DOMAIN <input type="checkbox"/> NOFORN				ESTIMATED EXPRESSION DATE:		Not applicable	
FORM OF DATA: KIND OF DATA: <input checked="" type="checkbox"/> PRINTED DOCUMENT <input type="checkbox"/> ABSTRACT <input type="checkbox"/> INSTRUCTION <input type="checkbox"/> CHART <input type="checkbox"/> BROCHURE <input type="checkbox"/> LETTER <input type="checkbox"/> DIAGRAM <input type="checkbox"/> BULLETIN <input type="checkbox"/> LIST <input type="checkbox"/> DRAWING <input type="checkbox"/> CATALOG <input type="checkbox"/> LOG <input type="checkbox"/> FILM (STATIC OR MOTION) <input type="checkbox"/> CONTRACT <input type="checkbox"/> MANUAL <input type="checkbox"/> ILLUSTRATION <input type="checkbox"/> DIRECTIVE <input type="checkbox"/> MEMORANDUM <input type="checkbox"/> MODEL <input type="checkbox"/> DISCLOSURE <input type="checkbox"/> MINUTES <input type="checkbox"/> RECORDING (TAPE OR DISC) <input type="checkbox"/> ENGINEERING CHANGE <input type="checkbox"/> PLAN <input type="checkbox"/> COMPUTER CARD ORDER <input type="checkbox"/> PROCEDURE <input type="checkbox"/> COMPUTER TAPE <input type="checkbox"/> REQUEST FOR ENGINEERING CHANGE PROPOSAL <input type="checkbox"/> REGULATION <input type="checkbox"/> MICROFILM (W/OR W/O CARD) <input type="checkbox"/> ENGINEERING CHANGE PROPOSAL <input checked="" type="checkbox"/> REPORT <input type="checkbox"/> OTHER <input type="checkbox"/> ENGINEERING CHANGE PROPOSAL <input type="checkbox"/> SCHEDULE <input type="checkbox"/> _____ <input type="checkbox"/> HANDBOOK <input type="checkbox"/> SPECIFICATION <input type="checkbox"/> _____ <input type="checkbox"/> INDEX <input type="checkbox"/> STANDARD <input type="checkbox"/> _____ <input type="checkbox"/> VOUCHER				REFERENCE DOCUMENTS:			
				APPLICABLE STANDARDS:			
REVIEWS AND/OR APPROVALS REQUIRED: (LIST IN ORDER OF SUBMITTAL)							
		DRAFT	DATE	PREPUBLICATION PROOF			DATE
SUBMIT FOR REVIEW TO:		_____	_____	_____			_____
		BY	_____	_____			BY
		_____	_____	_____			_____
		BY	_____	_____			BY
SUBMIT FOR APPROVAL TO:		Manager, Project	_____	_____			_____
		BY	_____	_____			BY
		Control	_____	_____			_____

SPECIAL INSTRUCTIONS:

DRD NO.:

MA-023

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

The Schedule/Cost Coupling Report will be a computerized summation of current month expenditures versus those funded, inception-to-date expenditures versus those planned in the customer base line (CBL), net open commitments, and estimated final cost at completion according to: (1) the CBL, (2) the latest plan expressed in the PFI, (3) a calculated value for percent complete and (4) an independent assessment of percent complete (value) by the cognizant engineer. All of the above will be segregated by work package and responsible operation.

The report will be prepared in accordance with the attached sample forms.

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

PROJECT PERFORMANCE REPORT VOYAGER PROJECT BY RESPONSIBLE OPERATION

SHOP ORDER NO	CURRENT MONTH ACTUAL FUNDED	INCEPTION TO DATE ACTUAL CBL	COST AT COMPLETION CBL PLAN	VALUE	NET OPEN COMMIT	PCT Cmpl	MILESTONES ACTUAL CBL
1121KF342CXX HOURS	1	2	3	4	5	6	7
1121KF342CSS LABOR							
1121KF342CXX MAT							
1121KF342CXX TOTAL							

1121KF342DXX HOURS
 1121KF342DXX LABOR
 1121KF342DXX MAT
 1121KF342JXX TOTAL

C LEVEL HOURS
 C LEVEL LABOR
 C LEVEL MAT
 C LEVEL TOTAL

1122KF342CXX HOURS
 1122KF342CXX LABOR
 1122KF342CXX MAT
 1122KF342CXX TOTAL

1122KF342DXX HOURS
 1122KF342DXX LABOR
 1122KF342DXX MAT
 1122KF342DXX TOTAL

PROJECT PERFORMANCE REPORT BY RESPONSIBLE OPERATION

SHOP ORDER NO	PROJECT PERFORMANCE REPORT		VOYAGER PROJECT		BY WORK PACKAGE		NET OPEN COMMIT	PCT Cmpl	MILESTONES ACTUAL CBL
	CURRENT MONTH ACTUAL	FUNDED	INCEPTION TO DATE ACTUAL	CBL	COST AT COMPLETION PLAN	VALUE			
1122KF342CXX HOURS	1	2	3	4	5	7	8	9	10
1122KF342CXX LABOR									
1122KF342CXX MAT									
1122KF342CXX TOTAL									
1121KF342CXX HOURS									
1121KF342CXX LABOR									
1121KF342CXX MAT									
1121KF342CXX TOTAL									
W P TOTAL									
1122KF342DXX HOURS									
1122KF342DXX LABOR									
1122KF342DXX MAT									
1122KF342DXX TOTAL									
1121KF342DXX HOURS									
1121KF342DXX LABOR									
1121KF342DXX MAT									
1121KF342DXX TOTAL									
W P TOTAL									

PROJECT PERFORMANCE REPORT BY WORK PACKAGE

VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

DRD NO.:

MA-024

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

Contact reports will be generated as a result of all informal communications with customers or subcontractors wherein pertinent information is discussed or exchanged. Pertinent information is defined to include the following:

- a. Contacts where agreement is reached to request a change to cost, schedule, performance or an interface
- b. Contacts where agreement is reached to request a change to approved document/data (i. e., test plan, CEI list, etc.)
- c. Contacts where action or decisions are required by someone other than those involved in the contact
- d. Contacts that result in a request for a change in a scheduled milestone
- e. Contacts that result in a change to a previous decision
- f. Contacts that result in the release of GE or a subcontractor from a commitment, (i. e., action item, information request, meeting attendance, etc.)
- g. Contacts that result in a commitment by the customer (i. e., action items, decision date, etc.)

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

GE EXHIBIT DRD MA-024

Contacts not considered pertinent include the following:

- a. Information only
- b. Verification contact (i. e. , meeting date, agenda, attendees, etc.)
- c. Meetings at which minutes are required

Contact reports will be prepared in accordance with the attached sample form.

VOYAGER CONTACT REPORT (RC)

This is a report of a contact made on

_____ between _____
date name of person
_____ and _____
and organization name of person

and organization

Report No. VC . . . RC . . .
Date of Report _____
Prepared by _____
Ref CEI No. _____
Ref CII No. _____
Ref Work Package _____
Verification _____
Report Received _____

METHOD OF CONTACT

Personal Visit

Telephone

TWX (attach copy)

Letter (attach copy)

Conference (attach agenda, list of attendees, etc.)

Place _____ Date _____

DISCUSSION

RECOMMENDED ACTION

Reference other telephone calls, TWX's, letters, etc. _____

(Contact Report Nos.)

STANDARD DISTRIBUTION

ADDITIONAL DISTRIBUTION

Voyager Project Office, Pasadena
VPME
Project Control Office, GE
Contract and Resources Management
Subsystem Cognizant Engineer

Subcontractor Project Control Office

VOYAGER Contact Report

DRD NO.:
MA-025

SPECIAL INSTRUCTIONS:

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

The plan shall provide procedures for the protection of all Project property, government and contractor-owned facilities and equipment, and for the prevention or minimizing personnel casualties resulting from a grave emergency. Such emergencies shall include acts of sabotage, labor disturbances, riots, fire, explosions, and acts of God. The plan shall include, but not be limited to, the following:

1. The levels of emergency
2. Methods and procedures for plant protection
3. Methods and procedures for Project property protection
4. Methods and procedures for personnel protection
5. Personnel training and indoctrination
6. Evacuation routes
7. Communications
8. Emergency areas and equipment

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

Scheduling Data Requirement Descriptions

<u>DRD Number</u>	<u>Title</u>
SC-001	*Schedule, Change Request/Notice
SC-002	Schedule, Project Level (PERT)
SC-003	Schedule, Project Level (Milestone)
SC-004	Schedule, Task and Sub-Task Level (PERT)
SC-005	Schedule, Task and Sub-Task Level (Milestone)
SC-006	*Schedule, Detail PERT Fragnets
SC-007	*Schedule, Work Package and Cost Account Level (Milestone)
SC-008	Report, Project Level (PERT)
SC-009	Report, Project Level Milestones
SC-010	Report, Task and Sub-Task Level (PERT)
SC-011	Report, Task and Sub-Task Level Milestones
SC-012	*Report, Detail PERT Fragnet Status
SC-013	*Report, Work Package and Account Level Milestones
SC-014	*List, Special Schedule Printouts

VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

DRD NO.:
SC-001

This form will be used for requesting changes to customer established and/or interface scheduled dates (i.e., Project Level Milestone Schedule).

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

Request	}	Event(s) for which schedule change is requested Current and proposed change date Justification for requesting change Effect of change (i.e., all effected milestones)
---------	---	--

Notice	}	Approval of change
--------	---	--------------------

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

GE EXHIBIT DRD SC-002

VOYAGER DATA REQUIREMENT DESCRIPTION				DRD APPROVED BY:		DATE:	DATA CATEGORY:				
ORGANIZATION ORIGINATING REQUIREMENT:	CODE: SC	OFFICE RESPONSIBLE FOR DRD:	CODE:	DRD PREPARED BY: F. Pfluger	DATE: 7/28/67	CONTRACT NO.:	DRD NO.: SC-002				
TITLE OF DOCUMENT: SCHEDULE, PROJECT LEVEL (PERT)				ORGANIZATION RESPONSIBLE FOR DOCUMENT PREPARATION:	TASK OR SUBTASK:	DRL ITEM NO.:					
				Project Control							
				ORGANIZATION RESPONSIBLE FOR DOCUMENT REPRODUCTION:	DRL NO.:	LEVEL NO.:					
				ORGANIZATION RESPONSIBLE FOR DOCUMENT DISTRIBUTION:	DDL NO.:	FILE NO.:					
TYPE OF DOCUMENT: <input checked="" type="checkbox"/> CONTROL <input type="checkbox"/> ACTION <input type="checkbox"/> REFERENCE <input type="checkbox"/> INFORMATION				ORGANIZATION RESPONSIBLE FOR DOCUMENT STOWAGE:		NO. OF COPIES:					
USE OF DOCUMENT: Used to develop schedule requirements for Project level events.						5					
				ESTIMATED MANHOURS FOR SINGLE PREPARATION:		INFORMATION CUTOFF DATE OR MILESTONE:					
INTERRELATIONSHIP WITH OTHER DATA REQUIREMENTS: MA-007, Plan, Project Implementation MA-008, Plan, Project Control MG-009, Plan, Manufacturing SE-001, Plan, System Development TE-001, Plan, Integrated Test				ESTIMATED COST (\$) FOR SINGLE PREPARATION:		DATE DATA DUE TO USER:					
				FREQUENCY OF ISSUE:		PUBLICATION DATE:		SDR			
				<input type="checkbox"/> ANNUALLY <input type="checkbox"/> SEMI-ANNUALLY <input type="checkbox"/> QUARTERLY <input type="checkbox"/> BI-MONTHLY <input type="checkbox"/> MONTHLY <input type="checkbox"/> SEMI-MONTHLY <input checked="" type="checkbox"/> BI-WEEKLY <input type="checkbox"/> WEEKLY <input type="checkbox"/> DAILY <input type="checkbox"/> OTHERWISE, AS SPECIFIED		UPDATE (FREQUENCY OR MILESTONE):		Not applicable			
ESTIMATED EXPIRATION DATE:											
CLASSIFICATION: <input type="checkbox"/> SECRET <input type="checkbox"/> CONFIDENTIAL <input type="checkbox"/> SECRET RESTRICTED DATA <input type="checkbox"/> CONFIDENTIAL RESTRICTED DATA <input checked="" type="checkbox"/> UNCLASSIFIED				<input type="checkbox"/> GROUP 1 <input type="checkbox"/> GROUP 2 <input type="checkbox"/> GROUP 3 <input type="checkbox"/> GROUP 4 <input type="checkbox"/> PROPRIETARY <input type="checkbox"/> PUBLIC DOMAIN				<input type="checkbox"/> SPECIAL HANDLING <input type="checkbox"/> NASA DISCREET <input type="checkbox"/> JPL DISCREET <input type="checkbox"/> PROJECT DISCREET <input type="checkbox"/> NOFORN			
FORM OF DATA: <input type="checkbox"/> PRINTED DOCUMENT <input type="checkbox"/> CHART <input type="checkbox"/> DIAGRAM <input type="checkbox"/> DRAWING <input type="checkbox"/> FILM (STATIC OR MOTION) <input type="checkbox"/> ILLUSTRATION <input type="checkbox"/> MODEL <input type="checkbox"/> RECORDING (TAPE OR DISC) <input type="checkbox"/> COMPUTER CARD <input type="checkbox"/> COMPUTER TAPE <input type="checkbox"/> MICROFILM (W/OR W/O CARD) <input checked="" type="checkbox"/> OTHER <u>PERT Network</u>				KIND OF DATA: <input type="checkbox"/> ABSTRACT <input type="checkbox"/> BROCHURE <input type="checkbox"/> BULLETIN <input type="checkbox"/> CATALOG <input type="checkbox"/> CONTRACT <input type="checkbox"/> DIRECTIVE <input type="checkbox"/> DISCLOSURE <input type="checkbox"/> ENGINEERING CHANGE ORDER <input type="checkbox"/> REQUEST FOR ENGINEERING CHANGE PROPOSAL <input type="checkbox"/> ENGINEERING CHANGE PROPOSAL <input type="checkbox"/> HANDBOOK <input type="checkbox"/> INDEX				<input type="checkbox"/> INSTRUCTION <input type="checkbox"/> LETTER <input type="checkbox"/> LIST <input type="checkbox"/> LOG <input type="checkbox"/> MANUAL <input type="checkbox"/> MEMORANDUM <input type="checkbox"/> MINUTES <input type="checkbox"/> PLAN <input type="checkbox"/> PROCEDURE <input type="checkbox"/> REGULATION <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> SCHEDULE <input type="checkbox"/> SPECIFICATION <input type="checkbox"/> STANDARD <input type="checkbox"/> VOUCHER			
REFERENCE DOCUMENTS:				APPLICABLE STANDARDS:							
REVIEWS AND/OR APPROVALS REQUIRED: (LIST IN ORDER OF SUBMITTAL)											
		DRAFT	DATE	PREPUBLICATION PROOF		DATE					
SUBMIT FOR REVIEW TO:		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
SUBMIT FOR APPROVAL TO:		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____			BY					
		_____	_____	_____		_____					
		BY	_____								

VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

DRD NO.:
SC-002

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

A diagram depicting significant contractor project level activities and events, their inter-relationships, activity time estimates, expected and latest allowable completion dates for each event, and the slack time. This network and the Project Level (Milestone) Schedule will be the basis for all lower-level schedules and networks. A Project Level Milestone is defined as a customer-established milestone plus those additional internal milestones added by the contractor Project Manager for the purpose of adequate tracking and measuring of the customer-established milestones.

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

SPECIAL INSTRUCTIONS:

DRD NO.:
SC-003

Once approved, this schedule cannot be changed without an approved Schedule Change Notice.

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

Matrix of Project Level Events (Milestones) and time scale. The planned and actual completion dates of each event are shown at the appropriate point along the time scale. This schedule will match the project level PERT but in a form more usable for management appraisal and review than a network. It will be of the bar chart and milestone format indicating all project level milestones (as defined in the DRD for Schedule, Project Level PERT).

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

DRD NO.:
SC-004

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

Diagrams depicting significant task and subtask level activities and events, their interrelationships, activity time estimates, expected and latest allowable completion dates for each event, and slack time. These networks and the task and subtask level milestone schedules will be based upon the project level network and milestone schedule.

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

SPECIAL INSTRUCTIONS:

DRD NO.:
SC-005

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

Matrix of task and subtask level events (milestones) and time scale. The planned and actual completion dates of each event are shown at the appropriate point along the time scale. This schedule will match the task and subtask level PERT but in a form more usable for management appraisal and review than a network. It will be of the bar chart and milestone format indicating all task and subtask level milestones.

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

DRD NO.:
SC-006

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

Diagram depicting significant activities and events of critical activities, their interrelationships, activity time estimates, expected and latest allowable completion dates for each event, and slack time. These networks and the work package and cost account level milestone schedule will be based upon all higher-level networks and schedules.

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

VOYAGER DATA REQUIREMENT DESCRIPTION				DRD APPROVED BY:		DATE:	DATA CATEGORY:
ORGANIZATION ORIGINATING REQUIREMENT:		CODE:	OFFICE RESPONSIBLE FOR DRD:	CODE:	DRD PREPARED BY:	DATE:	CONTRACT NO.:
		SC			F. Pfluger	7/28/67	SC-007
TITLE OF DOCUMENT: *SCHEDULE, WORK PACKAGE AND COST ACCOUNT LEVEL (MILESTONE)				ORGANIZATION RESPONSIBLE FOR DOCUMENT PREPARATION:		TASK OR SUBTASK:	DRL ITEM NO.:
				Project Control			
				ORGANIZATION RESPONSIBLE FOR DOCUMENT REPRODUCTION:		DRL NO.:	LEVEL NO.:
TYPE OF DOCUMENT: <input checked="" type="checkbox"/> CONTROL <input type="checkbox"/> ACTION <input type="checkbox"/> REFERENCE <input type="checkbox"/> INFORMATION				ORGANIZATION RESPONSIBLE FOR DOCUMENT DISTRIBUTION:		DDL NO.:	FILE NO.:
USE OF DOCUMENT: Used to record planned and actual completion dates for all detailed milestones.				ORGANIZATION RESPONSIBLE FOR DOCUMENT STOWAGE:		NO. OF COPIES:	
						25	
				ESTIMATED MANHOURS FOR SINGLE PREPARATION:		INFORMATION CUTOFF DATE OR MILESTONE:	
INTERRELATIONSHIP WITH OTHER DATA REQUIREMENTS: MA-008, Plan, Project Control SC-006, Schedule, Detail PERT Fragnets				ESTIMATED COST (\$) FOR SINGLE PREPARATION:		DATE DATA DUE TO USER:	
				FREQUENCY OF ISSUE:		PUBLICATION DATE:	
				<input type="checkbox"/> ANNUALLY <input type="checkbox"/> SEMI-ANNUALLY <input type="checkbox"/> QUARTERLY <input type="checkbox"/> BI-MONTHLY <input type="checkbox"/> MONTHLY <input type="checkbox"/> SEMI-MONTHLY <input checked="" type="checkbox"/> BI-WEEKLY <input type="checkbox"/> WEEKLY <input type="checkbox"/> DAILY <input type="checkbox"/> OTHERWISE, AS SPECIFIED		SDR	
CLASSIFICATION:				<input type="checkbox"/> GROUP 1 <input type="checkbox"/> GROUP 2 <input type="checkbox"/> GROUP 3 <input type="checkbox"/> GROUP 4 <input type="checkbox"/> PROPRIETARY <input type="checkbox"/> PUBLIC DOMAIN		<input type="checkbox"/> SPECIAL HANDLING <input type="checkbox"/> NASA DISCREET <input type="checkbox"/> JPL DISCREET <input type="checkbox"/> PROJECT DISCREET <input type="checkbox"/> NOFORN	
<input type="checkbox"/> SECRET <input type="checkbox"/> CONFIDENTIAL <input type="checkbox"/> SECRET RESTRICTED DATA <input type="checkbox"/> CONFIDENTIAL RESTRICTED DATA <input checked="" type="checkbox"/> UNCLASSIFIED						UPDATE (FREQUENCY OR MILESTONE): Weekly ESTIMATED EXPIRATION DATE:	
FORM OF DATA:		KIND OF DATA:		REFERENCE DOCUMENTS:			
<input checked="" type="checkbox"/> PRINTED DOCUMENT <input type="checkbox"/> CHART <input type="checkbox"/> DIAGRAM <input type="checkbox"/> DRAWING <input type="checkbox"/> FILM (STATIC OR MOTION) <input type="checkbox"/> ILLUSTRATION <input type="checkbox"/> MODEL <input type="checkbox"/> RECORDING (TAPE OR DISC) <input type="checkbox"/> COMPUTER CARD <input type="checkbox"/> COMPUTER TAPE <input type="checkbox"/> MICROFILM (W/OR W/O CARD) <input type="checkbox"/> OTHER		<input type="checkbox"/> ABSTRACT <input type="checkbox"/> BROCHURE <input type="checkbox"/> BULLETIN <input type="checkbox"/> CATALOG <input type="checkbox"/> CONTRACT <input type="checkbox"/> DIRECTIVE <input type="checkbox"/> DISCLOSURE <input type="checkbox"/> ENGINEERING CHANGE ORDER <input type="checkbox"/> REQUEST FOR ENGINEERING CHANGE PROPOSAL <input type="checkbox"/> ENGINEERING CHANGE PROPOSAL <input type="checkbox"/> HANDBOOK <input type="checkbox"/> INDEX		<input type="checkbox"/> INSTRUCTION <input type="checkbox"/> LETTER <input type="checkbox"/> LIST <input type="checkbox"/> LOG <input type="checkbox"/> MANUAL <input type="checkbox"/> MEMORANDUM <input type="checkbox"/> MINUTES <input type="checkbox"/> PLAN <input type="checkbox"/> PROCEDURE <input type="checkbox"/> REGULATION <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> SCHEDULE <input type="checkbox"/> SPECIFICATION <input type="checkbox"/> STANDARD <input type="checkbox"/> VOUCHER			
				APPLICABLE STANDARDS:			
REVIEWS AND/OR APPROVALS REQUIRED: (LIST IN ORDER OF SUBMITTAL)							
		DRAFT			DATE	PREPUBLICATION PROOF	DATE
SUBMIT FOR REVIEW TO:		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
SUBMIT FOR APPROVAL TO:		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____	
		BY _____		_____		BY _____	
		_____		_____		_____	
		_____		_____		_____</	

VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

DRD NO.:

SC-007

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

Matrix of detailed milestones and time scale. The planned and actual completion dates of each event are shown at the appropriate point along the time scale. This schedule will match the detail PERT fragnets but will be in a form more usable for management appraisal and review than the networks.

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

DRD NO.:
SC-008

SPECIAL INSTRUCTIONS:

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

Computer printout containing Project level activity descriptions, current expected completion dates, latest allowable dates, and slack times.

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

VOYAGER DATA REQUIREMENT DESCRIPTION				DRD APPROVED BY:		DATE:	DATA CATEGORY:
ORGANIZATION ORIGINATING REQUIREMENT:	CODE: SC	OFFICE RESPONSIBLE FOR DRD:	CODE:	DRD PREPARED BY: F. Pfluger	DATE: 7/28/67	CONTRACT NO.:	DRD NO.: SC-009
TITLE OF DOCUMENT: REPORT, PROJECT LEVEL MILESTONES				ORGANIZATION RESPONSIBLE FOR DOCUMENT PREPARATION: Project Control		TASK OR SUBTASK:	DRL ITEM NO.:
				ORGANIZATION RESPONSIBLE FOR DOCUMENT REPRODUCTION:		DRL NO.:	LEVEL NO.:
				ORGANIZATION RESPONSIBLE FOR DOCUMENT DISTRIBUTION:		DDL NO.:	FILE NO.:
TYPE OF DOCUMENT: <input type="checkbox"/> CONTROL <input type="checkbox"/> ACTION <input type="checkbox"/> REFERENCE <input checked="" type="checkbox"/> INFORMATION				ORGANIZATION RESPONSIBLE FOR DOCUMENT STOWAGE:		NO. OF COPIES: 25	
USE OF DOCUMENT: Used to report current status of contractor Project level events.				ESTIMATED MANHOURS FOR SINGLE PREPARATION:		INFORMATION CUTOFF DATE OR MILESTONE:	
				ESTIMATED COST (\$) FOR SINGLE PREPARATION:		DATE DATA DUE TO USER:	
INTERRELATIONSHIP WITH OTHER DATA REQUIREMENTS: MA-008, Plan, Project Control MA-016, Report, Project Progress Monthly MA-021, Report, Weekly Activity PC-002, Report, Contract Status				FREQUENCY OF ISSUE: <input type="checkbox"/> ANNUALLY <input type="checkbox"/> SEMI-ANNUALLY <input checked="" type="checkbox"/> QUARTERLY <input type="checkbox"/> BI-MONTHLY <input type="checkbox"/> MONTHLY <input type="checkbox"/> SEMI-MONTHLY <input type="checkbox"/> BI-WEEKLY <input type="checkbox"/> WEEKLY <input type="checkbox"/> DAILY <input type="checkbox"/> OTHERWISE, AS SPECIFIED		PUBLICATION DATE: SDR	
						UPDATE (FREQUENCY OR MILESTONE): Not applicable	
						ESTIMATED EXPIRATION DATE:	
CLASSIFICATION: <input type="checkbox"/> SECRET <input type="checkbox"/> CONFIDENTIAL <input type="checkbox"/> SECRET RESTRICTED DATA <input type="checkbox"/> CONFIDENTIAL RESTRICTED DATA <input checked="" type="checkbox"/> UNCLASSIFIED		GROUP 1 <input type="checkbox"/> GROUP 2 <input type="checkbox"/> GROUP 3 <input type="checkbox"/> GROUP 4 <input type="checkbox"/> PROPRIETARY <input type="checkbox"/> PUBLIC DOMAIN		SPECIAL HANDLING <input type="checkbox"/> NASA DISCREET <input type="checkbox"/> JPL DISCREET <input type="checkbox"/> PROJECT DISCREET <input type="checkbox"/> NOFORN			
FORM OF DATA: <input checked="" type="checkbox"/> PRINTED DOCUMENT <input type="checkbox"/> CHART <input type="checkbox"/> DIAGRAM <input type="checkbox"/> DRAWING <input type="checkbox"/> FILM (STATIC OR MOTION) <input type="checkbox"/> ILLUSTRATION <input type="checkbox"/> MODEL <input type="checkbox"/> RECORDING (TAPE OR DISC) <input type="checkbox"/> COMPUTER CARD <input type="checkbox"/> COMPUTER TAPE <input type="checkbox"/> MICROFILM (W/OR W/O CARD) <input type="checkbox"/> OTHER		KIND OF DATA: <input type="checkbox"/> ABSTRACT <input type="checkbox"/> BROCHURE <input type="checkbox"/> BULLETIN <input type="checkbox"/> CATALOG <input type="checkbox"/> CONTRACT <input type="checkbox"/> DIRECTIVE <input type="checkbox"/> DISCLOSURE <input type="checkbox"/> ENGINEERING CHANGE ORDER <input type="checkbox"/> REQUEST FOR ENGINEERING CHANGE PROPOSAL <input type="checkbox"/> ENGINEERING CHANGE PROPOSAL <input type="checkbox"/> HANDBOOK <input type="checkbox"/> INDEX		<input type="checkbox"/> INSTRUCTION <input type="checkbox"/> LETTER <input type="checkbox"/> LIST <input type="checkbox"/> LOG <input type="checkbox"/> MANUAL <input type="checkbox"/> MEMORANDUM <input type="checkbox"/> MINUTES <input type="checkbox"/> PLAN <input type="checkbox"/> PROCEDURE <input type="checkbox"/> REGULATION <input checked="" type="checkbox"/> REPORT <input type="checkbox"/> SCHEDULE <input type="checkbox"/> SPECIFICATION <input type="checkbox"/> STANDARD <input type="checkbox"/> VOUCHER		REFERENCE DOCUMENTS:	
				APPLICABLE STANDARDS:			
REVIEWS AND/OR APPROVALS REQUIRED: (LIST IN ORDER OF SUBMITTAL)							
		DRAFT			DATE	PREPUBLICATION PROOF	DATE
SUBMIT FOR REVIEW TO:		_____	_____		_____	_____	_____
		_____	BY _____		_____	_____	_____
		_____	_____		_____	_____	_____
		_____	_____		_____	_____	_____
SUBMIT FOR APPROVAL TO:		_____	BY _____		_____	_____	_____
		_____	_____		_____	_____	_____
		_____	_____		_____	_____	_____
		Project Manager	_____		_____	_____	_____

VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

DRD NO.:

SC-009

SPECIAL INSTRUCTIONS:

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

This report will indicate the status of the Project Level Milestones in the reporting period and those in the next several reporting periods. The latter will be indicated as percent complete as of the end of the reporting period supported by a prediction of the probability of meeting these future milestones. This prediction will be based upon the status and analysis of all the sub-project level milestones upon which each of the project level milestones is dependent. This report will stand by itself as a report but will be the data to be combined with the data in the project level cost report which will constitute a cost/schedule coupling report of the project level status.

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

SPECIAL INSTRUCTIONS:

DRD NO.:
SC-010

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

Computer printout containing task and subtask level activity descriptions, current expected completion dates, latest allowable dates, and slack times.

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

DRD NO.:
SC-011

SPECIAL INSTRUCTIONS:

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

This report will indicate the status of task and subtask level milestones in the current reporting period and those in the next several reporting periods. The latter will be indicated as percent complete as of the end of the reporting period and will be supported by a prediction of the probability of meeting these future milestones.

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

DRD NO.:
SC-012

SPECIAL INSTRUCTIONS:

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

Computer printout containing activity descriptions, current expected completion dates, latest allowable completion dates, and slack time.

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

DRD NO.:
SC-013

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

This report will indicate the status of work package and account level milestones in the current reporting period and in the next several reporting periods. The latter will be indicated as percent complete as of the end of the reporting period and will be supported by a prediction of the probability of meeting these future milestones. This report constitutes the lowest level of milestone reporting.

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

DRD NO.:

SC-014

SPECIAL INSTRUCTIONS:

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

Alphabetical list of the various schedule sorts available and frequency of issue from the Project data bank, e.g.:

Engineering Release Schedule
Project Review Schedule
Project Report Schedule
Procurement Schedule
Test Schedule

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

Manning and Financial Data Requirement Descriptions

<u>DRD Number</u>	<u>Title</u>
MF-001	*Report, Material Commitment
MF-002	Report, Contractor Financial Management (Form 533)
MF-003	Report, Overtime
MF-004	*Report, Vouchered Hours
MF-005	*Report Project Financial Performance
MF-006	*Report, Manpower

*Key Informal Data

DRD NO.:
MF-001

SPECIAL INSTRUCTIONS:

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

The report is issued on a weekly and monthly summary basis and contains the following:

1. Period reported
2. Shop order number
3. Purchase order number
4. Total commitment - dollar value
5. Amount of invoices paid against the commitment
6. Balance of commitment still open

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

VOYAGER DATA REQUIREMENT DESCRIPTION				DRD APPROVED BY:		DATE:	DATA CATEGORY:
ORGANIZATION ORIGINATING REQUIREMENT:	CODE: MF	OFFICE RESPONSIBLE FOR DRD:	CODE:	DRD PREPARED BY: W. S. Rosowski	DATE: 7/28/67	CONTRACT NO.:	DRD NO.: MF-002
TITLE OF DOCUMENT: REPORT, CONTRACTOR FINANCIAL MANAGEMENT (FORM 533)				ORGANIZATION RESPONSIBLE FOR DOCUMENT PREPARATION: Finance		TASK OR SUBTASK:	DRL ITEM NO.:
				ORGANIZATION RESPONSIBLE FOR DOCUMENT REPRODUCTION:		DRL NO.:	LEVEL NO.:
				ORGANIZATION RESPONSIBLE FOR DOCUMENT DISTRIBUTION:		DDL NO.:	FILE NO.:
TYPE OF DOCUMENT: <input type="checkbox"/> CONTROL <input type="checkbox"/> ACTION <input type="checkbox"/> REFERENCE <input checked="" type="checkbox"/> INFORMATION				ORGANIZATION RESPONSIBLE FOR DOCUMENT STORAGE:		NO. OF COPIES: 25	
USE OF DOCUMENT: The report is used by the contractor to report hours worked and costs incurred for the customer.				ESTIMATED MANHOURS FOR SINGLE PREPARATION:		INFORMATION CUTOFF DATE OR MILESTONE:	
				ESTIMATED COST (\$) FOR SINGLE PREPARATION:		DATE DATA DUE TO USER:	
INTERRELATIONSHIP WITH OTHER DATA REQUIREMENTS: MF-001, Report, Material Commitment MF-004, Report, Vouchered Hours				FREQUENCY OF ISSUE: <input type="checkbox"/> ANNUALLY <input type="checkbox"/> SEMI-ANNUALLY <input type="checkbox"/> QUARTERLY <input type="checkbox"/> BI-MONTHLY <input checked="" type="checkbox"/> MONTHLY <input type="checkbox"/> SEMI-MONTHLY <input type="checkbox"/> BI-WEEKLY <input type="checkbox"/> WEEKLY <input type="checkbox"/> DAILY <input type="checkbox"/> OTHERWISE, AS SPECIFIED		PUBLICATION DATE: SDR	
						UPDATE (FREQUENCY OR MILESTONE): Not applicable	
CLASSIFICATION: <input type="checkbox"/> SECRET <input type="checkbox"/> CONFIDENTIAL <input type="checkbox"/> SECRET RESTRICTED DATA <input type="checkbox"/> CONFIDENTIAL RESTRICTED DATA <input checked="" type="checkbox"/> UNCLASSIFIED				<input type="checkbox"/> GROUP 1 <input type="checkbox"/> GROUP 2 <input type="checkbox"/> GROUP 3 <input type="checkbox"/> GROUP 4 <input type="checkbox"/> PROPRIETARY <input type="checkbox"/> PUBLIC DOMAIN		<input type="checkbox"/> SPECIAL HANDLING <input type="checkbox"/> NASA DISCREET <input type="checkbox"/> JPL DISCREET <input type="checkbox"/> PROJECT DISCREET <input type="checkbox"/> NOFORN	
				ESTIMATED EXPIRATION DATE:			
FORM OF DATA:		KIND OF DATA:		REFERENCE DOCUMENTS:			
<input checked="" type="checkbox"/> PRINTED DOCUMENT <input type="checkbox"/> CHART <input type="checkbox"/> DIAGRAM <input type="checkbox"/> DRAWING <input type="checkbox"/> FILM (STATIC OR MOTION) <input type="checkbox"/> ILLUSTRATION <input type="checkbox"/> MODEL <input type="checkbox"/> RECORDING (TAPE OR DISC) <input type="checkbox"/> COMPUTER CARD <input type="checkbox"/> COMPUTER TAPE <input type="checkbox"/> MICROFILM (W/OR W/O CARD) <input type="checkbox"/> OTHER		<input type="checkbox"/> ABSTRACT <input type="checkbox"/> BROCHURE <input type="checkbox"/> BULLETIN <input type="checkbox"/> CATALOG <input type="checkbox"/> CONTRACT <input type="checkbox"/> DIRECTIVE <input type="checkbox"/> DISCLOSURE <input type="checkbox"/> ENGINEERING CHANGE ORDER <input type="checkbox"/> REQUEST FOR ENGINEERING CHANGE PROPOSAL <input type="checkbox"/> ENGINEERING CHANGE PROPOSAL <input type="checkbox"/> HANDBOOK <input type="checkbox"/> INDEX					
APPLICABLE STANDARDS:							
REVIEWS AND/OR APPROVALS REQUIRED: (LIST IN ORDER OF SUBMITTAL)							
		DRAFT	DATE	PREPUBLICATION PROOF		DATE	
SUBMIT FOR REVIEW TO:		_____	_____	_____		_____	
		BY	_____			BY	
		_____	_____	_____		_____	
		BY	_____			BY	
SUBMIT FOR APPROVAL TO:		_____	_____	_____		_____	
		Project Manager	_____				

VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

DRD NO.:

MF-002

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

Information is typed on NASA Form 533 and issued on a monthly basis and contains the following:

1. NASA Center to whom report is submitted and month being reported
2. Name and address of contractor
3. Contract number and type of contract
4. Brief description of contract work scope
5. Data of preparation and authorized signature
6. Contract value, fund limitation, amount billed, and total payments received
7. Hours worked and cost incurred for current month and year to date by reporting level
8. Estimated hours and costs to complete the contract by month for the next three months, by quarter for the balance of the fiscal year and by fiscal year after that period
9. Estimated total hours and costs to complete contract
10. Estimated final costs in hours and costs to complete contract
11. Contract value
12. Estimated completion date
13. Unfilled orders outstanding

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

DRD NO.:

MF-003

SPECIAL INSTRUCTIONS:

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

The Overtime Report lists the following:

1. Total direct overtime hours worked on the program by:
 - a. Total program
 - b. Task or other reporting level
 - c. Functional organization
 - d. Individual

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

DRD NO.:
MF-004

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

The computerized tab listing report shows the following:

1. Functional organization code
2. Name and payroll number of employee
3. Period reported
4. Type pay of employee (weekly or monthly)
5. Classification of employee (engineer, draftsman, etc.)
6. Each shop order number charged listing regular overtime hours
7. Total hours worked for the week and prior period adjustments
8. Total hours paid for the week
9. Variance - hours charged and paid

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

GE EXHIBIT DRD MF-005

VOYAGER DATA REQUIREMENT DESCRIPTION				DRD APPROVED BY:		DATE:	DATA CATEGORY:	
ORGANIZATION ORIGINATING REQUIREMENT:		CODE: MF	OFFICE RESPONSIBLE FOR DRD:	CODE:	DRD PREPARED BY: W.S. Rosowski	DATE: 7/28/67	CONTRACT NO.:	DRD NO.: MF-005
TITLE OF DOCUMENT: REPORT, PROJECT FINANCIAL PERFORMANCE				ORGANIZATION RESPONSIBLE FOR DOCUMENT PREPARATION: Finance		TASK OR SUBTASK:	DRL ITEM NO.:	
				ORGANIZATION RESPONSIBLE FOR DOCUMENT REPRODUCTION:		DRL NO.:	LEVEL NO.:	
				ORGANIZATION RESPONSIBLE FOR DOCUMENT DISTRIBUTION:		DDL NO.:	FILE NO.:	
TYPE OF DOCUMENT: <input type="checkbox"/> CONTROL <input type="checkbox"/> ACTION <input type="checkbox"/> REFERENCE <input checked="" type="checkbox"/> INFORMATION				ORGANIZATION RESPONSIBLE FOR DOCUMENT STOWAGE:		NO. OF COPIES: 25		
USE OF DOCUMENT: Used by contractor to report, measure, and control direct and indirect costs by project.				ESTIMATED MANHOURS FOR SINGLE PREPARATION:		INFORMATION CUTOFF DATE OR MILESTONE:		
				ESTIMATED COST (\$) FOR SINGLE PREPARATION:		DATE DATA DUE TO USER:		
INTERRELATIONSHIP WITH OTHER DATA REQUIREMENTS: MF-001, Report, Material Commitment MF-004, Report, Vouchered Hours MF-006, Report, Manpower PC-002, Report, Contract Status				FREQUENCY OF ISSUE: <input type="checkbox"/> ANNUALLY <input type="checkbox"/> SEMI-ANNUALLY <input type="checkbox"/> QUARTERLY <input type="checkbox"/> BI-MONTHLY <input type="checkbox"/> MONTHLY <input type="checkbox"/> SEMI-MONTHLY <input checked="" type="checkbox"/> BI-WEEKLY <input type="checkbox"/> WEEKLY <input type="checkbox"/> DAILY <input type="checkbox"/> OTHERWISE, AS SPECIFIED		PUBLICATION DATE: SDR		
						UPDATE (FREQUENCY OR MILESTONE): Not applicable		
						ESTIMATED EXPIRATION DATE:		
CLASSIFICATION:				<input type="checkbox"/> SECRET <input type="checkbox"/> GROUP 1 <input type="checkbox"/> SPECIAL HANDLING <input type="checkbox"/> CONFIDENTIAL <input type="checkbox"/> GROUP 2 <input type="checkbox"/> NASA DISCREET <input type="checkbox"/> SECRET RESTRICTED DATA <input type="checkbox"/> GROUP 3 <input type="checkbox"/> JPL DISCREET <input type="checkbox"/> CONFIDENTIAL RESTRICTED DATA <input type="checkbox"/> GROUP 4 <input type="checkbox"/> PROJECT DISCREET <input checked="" type="checkbox"/> UNCLASSIFIED <input type="checkbox"/> PROPRIETARY <input type="checkbox"/> NOFORN <input type="checkbox"/> PUBLIC DOMAIN				
FORM OF DATA:				REFERENCE DOCUMENTS:				
KIND OF DATA: <input checked="" type="checkbox"/> PRINTED DOCUMENT <input type="checkbox"/> ABSTRACT <input type="checkbox"/> INSTRUCTION <input type="checkbox"/> CHART <input type="checkbox"/> BROCHURE <input type="checkbox"/> LETTER <input type="checkbox"/> DIAGRAM <input type="checkbox"/> BULLETIN <input type="checkbox"/> LIST <input type="checkbox"/> DRAWING <input type="checkbox"/> CATALOG <input type="checkbox"/> LOG <input type="checkbox"/> FILM (STATIC OR MOTION) <input type="checkbox"/> CONTRACT <input type="checkbox"/> MANUAL <input type="checkbox"/> ILLUSTRATION <input type="checkbox"/> DIRECTIVE <input type="checkbox"/> MEMORANDUM <input type="checkbox"/> MODEL <input type="checkbox"/> DISCLOSURE <input type="checkbox"/> MINUTES <input type="checkbox"/> RECORDING (TAPE OR DISC) <input type="checkbox"/> ENGINEERING CHANGE ORDER <input type="checkbox"/> PLAN <input type="checkbox"/> COMPUTER CARD <input type="checkbox"/> REQUEST FOR ENGINEERING CHANGE PROPOSAL <input type="checkbox"/> PROCEDURE <input type="checkbox"/> COMPUTER TAPE <input type="checkbox"/> ENGINEERING CHANGE PROPOSAL <input checked="" type="checkbox"/> REPORT <input type="checkbox"/> MICROFILM (W/OR W/O CARD) <input type="checkbox"/> ENGINEERING CHANGE PROPOSAL <input type="checkbox"/> SCHEDULE <input type="checkbox"/> OTHER <input type="checkbox"/> HANDBOOK <input type="checkbox"/> SPECIFICATION <input type="checkbox"/> INDEX <input type="checkbox"/> STANDARD <input type="checkbox"/> VOUCHER				APPLICABLE STANDARDS:				
REVIEWS AND/OR APPROVALS REQUIRED: (LIST IN ORDER OF SUBMITTAL)								
		DRAFT	DATE	PREPUBLICATION PROOF	DATE			
SUBMIT FOR REVIEW TO:		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
SUBMIT FOR APPROVAL TO:		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____	BY	_____			
		_____	_____	_____	_____			
		BY	_____					

VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

DRD NO.:
MF-005

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

The Project Financial Performance Report lists the following data on a current week and year-to-date basis.

1. Weekly data
 - a. Manpower in effective heads charged to project.
 - b. Labor, overhead, and material costs charged for the week.
2. Year-to-Date
 - a. Cost of labor and overhead of department personnel.
 - b. Cost of material expended and committed.
 - c. Cost of labor and overhead of other departments charging project.
 - d. Budget for period.
 - e. Available balance of funding/budget for period.
 - f. Percentage of completion regarding funding and date scheduled for completion.
 - g. Scheduled completion date.

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

DRD NO.:
MF-006

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

OUTLINE OF CONTENTS:

The Manpower Report is a computerized tab listing which indicates the following:

1. Time period covered
 - a. Weekly
 - b. Summarized monthly
2. Separate tabulations covering
 - a. Project by shop order sequence
 - b. Function organization then project by shop order sequence
(responsible and performing organization costs)
3. Report details (all costs)
 - a. Shop order number
 - b. Labor classification
 - c. Regular and overtime manpower and effort
 - d. Intermediate and total summaries by task and organization

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

DOCUMENTATION RELATIONSHIP TREES

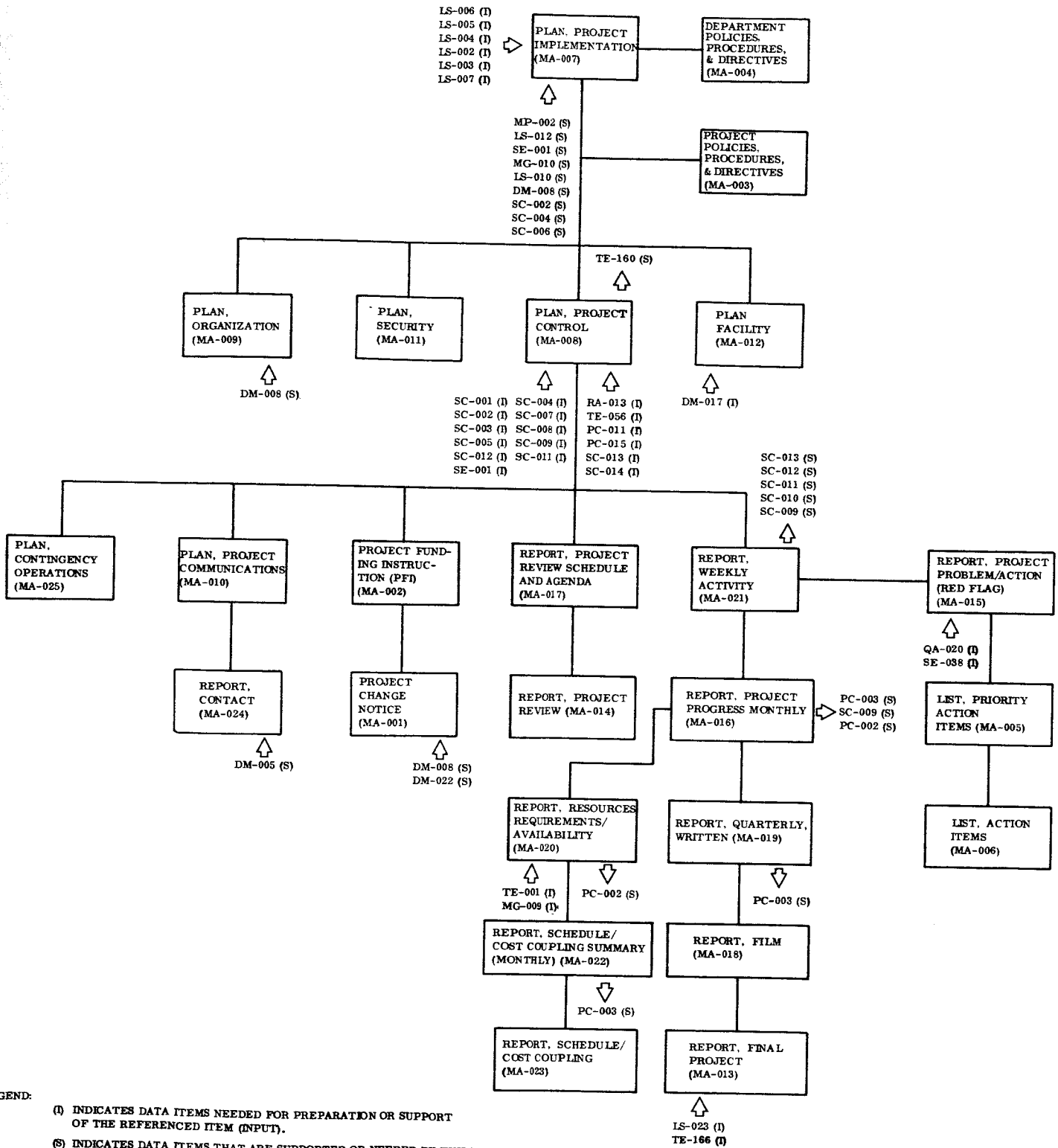
A documentation relationship tree has been prepared to show the relationships of data items within each functional category as well as their relationships across categories.

Relationships within each functional category are shown by constructing a tier pattern beginning with the top-level (or governing) data item and relating in descending order all data items within the category to this top-level data item. (The location of a data item at a given level on the diagram does not necessarily indicate the importance of that specific item but identifies and defines its relation to all other data items in that category.)

Relationships between data items in one category and data items in other functional categories are shown by (1) shaded arrows to indicate the direction of the relationship and (2) an alphabetic code to indicate the nature of the interrelationship as follows:

- a. Data items needed for preparation and/or support of the referenced item. (I)
- b. Data items that are supported or needed by this data item. (S)
- c. Data items that relate "to" and provide information of a general nature but are not required in an input or support role. (G)

Each data item appearing on the Data Item List (DIL) was examined and evaluated with respect to its contribution to, or dependence upon, data items appearing in other categories and is included in the diagrams. Additionally, certain data elements indicated in the user flow diagrams (but currently not identified as individual data items) have been shown within a dashed rectangle to clarify relationships.



- LEGEND:**
- (I) INDICATES DATA ITEMS NEEDED FOR PREPARATION OR SUPPORT OF THE REFERENCED ITEM (INPUT).
 - (S) INDICATES DATA ITEMS THAT ARE SUPPORTED OR NEEDED BY THIS ITEM.
 - (G) DATA ITEMS THAT RELATE TO AND PROVIDE INFORMATION OF A GENERAL NATURE BUT ARE NOT REQUIRED IN AN INPUT OR SUPPORT ROLE
 - ↑ INDICATES PRINCIPAL RELATIONSHIP (I, S, OR G) BETWEEN DATA ITEMS IN OTHER FUNCTIONAL CATEGORIES.

Figure I-3. Overall Management Documentation Relationship Tree (MA)

PLAN, PROJECT
IMPLEMENTATION
(MA-007)
(SC)

SCHEDULE
CHANGE
REQUEST/NOTICE
(SC-001)

MA-008 (S)

CM-026 (T) TE-001 (T)
LS-023 (T) QA-009 (T)
SE-001 (T) RA-009 (T)
PQ-004 (T) PC-015 (T)
DM-009 (T) MA-007 (T)
MP-002 (T) MG-009 (T)

SCHEDULE, PROJECT
LEVEL (PERT)
(SC-002)

SCHEDULE, PROJECT
LEVEL (MILESTONE)
(SC-003)

PC-026 (S)
MA-008 (S)

MA-007 (T) RA-009 (T) DM-009 (T)
MG-009 (T) QA-009 (T) PQ-004 (T)
PC-015 (T) TE-001 (T) SE-001 (T)
MG-014 (T) LS-023 (T) CM-026 (T)
MG-016 (T) MP-002 (T)

SCHEDULE, TASK
& SUB TASK
LEVEL (PERT)
(SC-004)

SCHEDULE, TASK &
SUB TASK LEVEL
(MILESTONE)
(SC-005)

MA-008 (S)

MA-008 (S)

MG-014 (T)
MG-016 (T)
MG-020 (T)

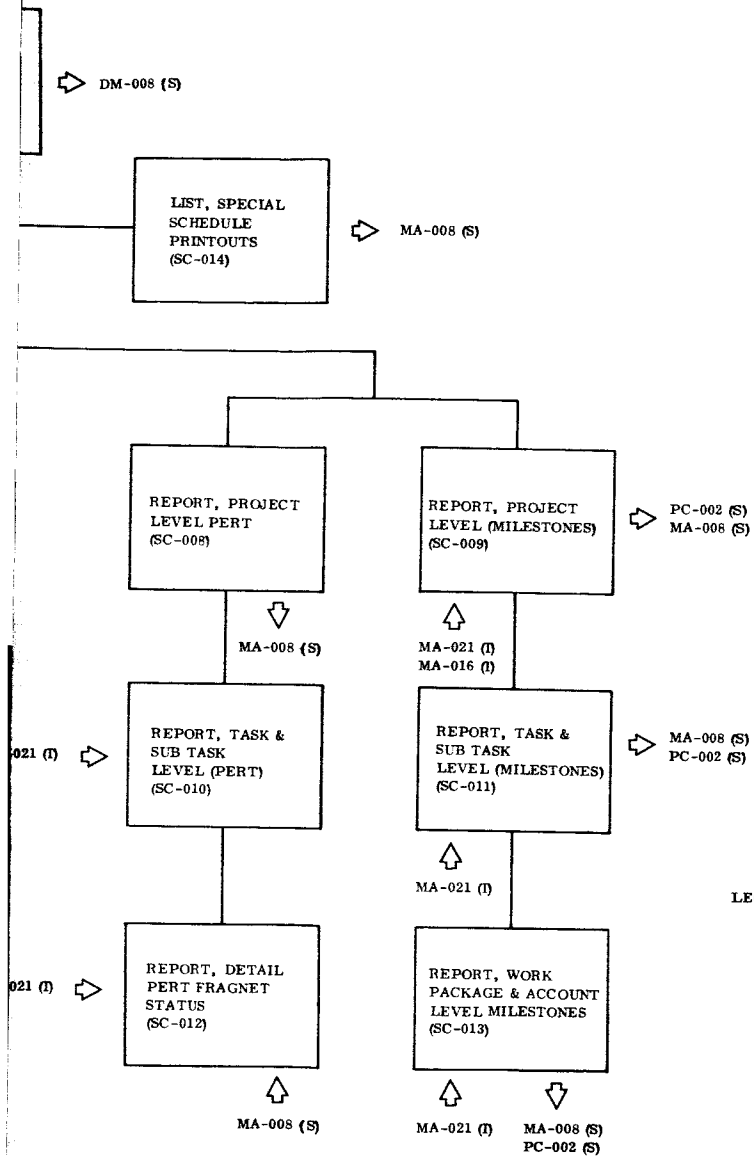
MA-008 (S)

MP-002 (T) TE-001 (T)
CM-026 (T) QA-009 (T)
LS-012 (T) RA-009 (T)
SE-001 (T) PC-015 (T)
PQ-004 (T) MG-009 (T)
DM-009 (T) MA-007 (T)

SCHEDULE, DETAIL
PERT FRAGNETS
(SC-006)

SCHEDULE, WORK
PACKAGE & COST
ACCOUNT LEVEL
(MILESTONE)
(SC-007)

MA-008 (S)



LEGEND:

- (I) INDICATES DATA ITEMS NEEDED FOR PREPARATION OR SUPPORT OF THE REFERENCED ITEM (INPUT).
- (S) INDICATES DATA ITEMS THAT ARE SUPPORTED OR NEEDED BY THIS ITEM.
- (G) DATA ITEMS THAT RELATE TO AND PROVIDE INFORMATION OF A GENERAL NATURE BUT ARE NOT REQUIRED IN AN INPUT OR SUPPORT ROLE
- △ INDICATES PRINCIPAL RELATIONSHIP (I, S, OR G) BETWEEN DATA ITEMS IN OTHER FUNCTIONAL CATEGORIES.

Figure I-4. Scheduling Documentation Relationship Tree (SC)

LEGEND:

- (I) INDICATES DATA ITEMS NEEDED FOR PREPARATION OR SUPPORT OF THE REFERENCED ITEM (INPUT).
- (S) INDICATES DATA ITEMS THAT ARE SUPPORTED OR NEEDED BY THIS ITEM.
- (G) DATA ITEMS THAT RELATE TO AND PROVIDE INFORMATION OF A GENERAL NATURE BUT ARE NOT REQUIRED IN AN INPUT OR SUPPORT ROLE
- ⬇ INDICATES PRINCIPAL RELATIONSHIP (I, S, OR G) BETWEEN DATA ITEMS IN OTHER FUNCTIONAL CATEGORIES.

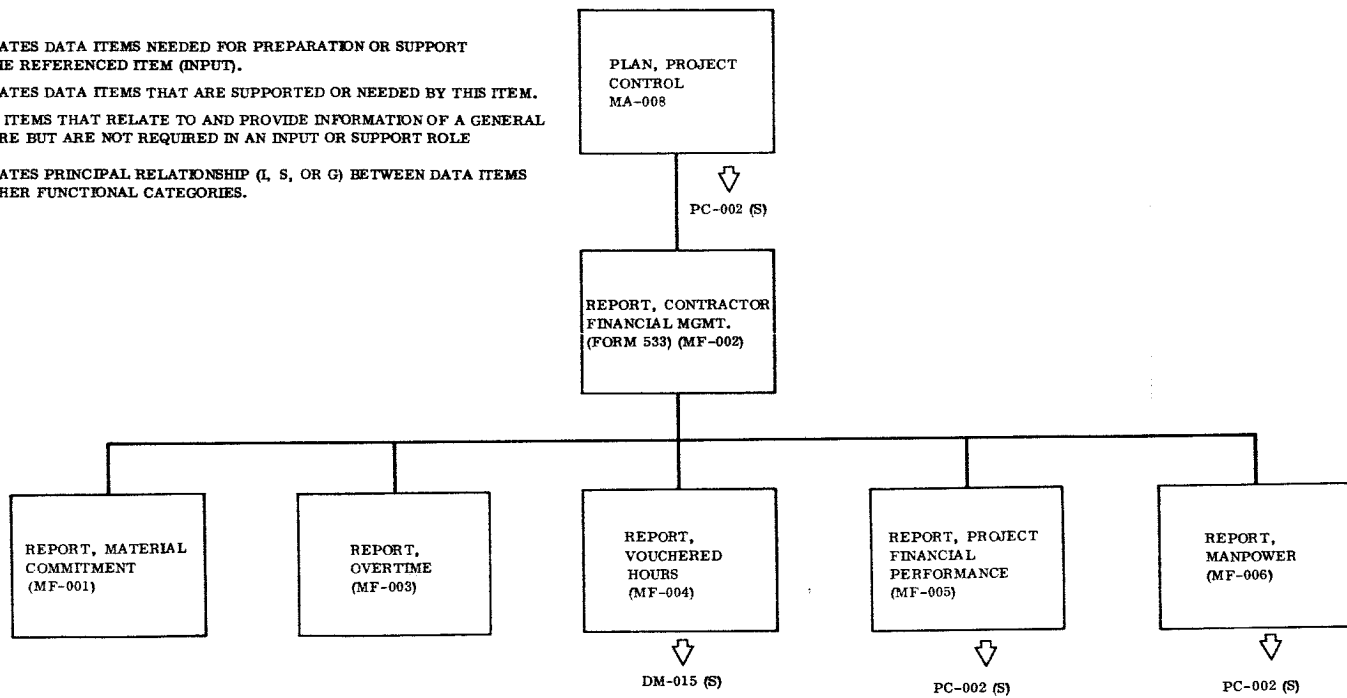


Figure I-5. Manning and Financial Documentation Relationship Tree (MF)

DATA ITEM PHASING/FREQUENCY

Frequency and phasing requirements for preparation of data items in the Overall Management category are shown in Figure I-6, Overall Management Data Item Phasing and Frequency Matrix. These estimates assume a Phase "C" start of 1 April 1968 and are based on the Data Item List of 15 December 1966.

Preparation of data items in this category begins at the start of Task "C" and shows an increase consistent with contract activity. Figure I-7, Management Data Item Density Profile, shows the distribution and density of data item preparation requirements in averages per month between each major review period.

Key informal data items constitute approximately one half of the total data requirement for this category.

Figure I-8, Scheduling Data Item Phasing and Frequency Matrix, shows the preparation and phasing requirements of data items in the scheduling functional category. As anticipated, data item preparation requirements within this category, as well as all other categories directly associated with project control and administration, begin at the start of Phase "C" and remain consistent throughout the contract period.

Figure I-9, Scheduling Data Item Density Profile, shows the density and distribution of requirements for data item preparation. Requirements are shown in averages per month between contract review periods. The relationship between "formal" and "key informal" data items is also shown.

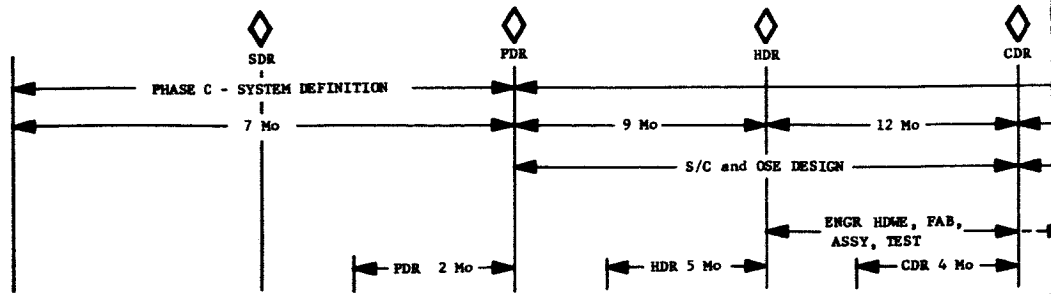
Figure I-10, Manning and Financial Data Item Phasing and Frequency Matrix, reflects the phasing and frequency of preparation requirements of data items associated with the Manning and Financial function. Basis for these estimates are the Data Items List, 15 December 1966 and with a Task "C" start of 1 April 1968. As noted on the matrix, these requirements appear early after Task "C" start and form a consistent pattern throughout the life of the contract.

Figure I-11, Manning and Financial Data Items Density Profile, shows the distribution and density of requirements for data items preparation in averages per month, per major project review period.

Key informal data item requirements constitute approximately two-thirds of the total requirement for this category.

OVERALL
MANAGEMENT
(MA)

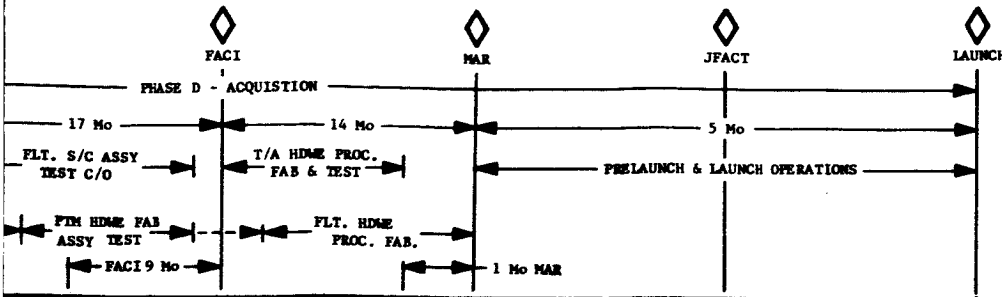
DATA ITEM
TITLE



DATA ITEM TITLE	QUANTITY	FREQUENCY	TOTAL	QUANTITY	FREQUENCY	TOTAL	QUANTITY	FREQUENCY	TOTAL	QUANTITY	FREQUENCY	TOTAL	QUANTITY	FREQUENCY	TOTAL
DIRECTIVES															
MA-001 *Project Change Notice	50	A/R	50	50	A/R	50	50	A/R	50	50	A/R	50	50	A/R	50
MA-002 *Project Funding Instruction (FFI)	70	Mo	250	70	Mo	250	55	Mo	500	63	Mo	750			
MA-003 Project Policies, Procdrs. and Directvs.	15	Mo	45	5	Mo	15	5	Mo	45	5	Mo	60			
MA-004 *Departmt. Policies, Procdrs. & Directvs.	15	Mo	45	5	Mo	15	5	Mo	45	5	Mo	60			
LISTS															
MA-005 List, Priority Action Items	1	Mo	4	1	Mo	3	1	Mo	9	1	Mo	12			
MA-006 *List, Action Items	1	Wk	15	1	Wk	15	1	Wk	40	1	Wk	52			
PLANS															
MA-007 Plan, Project Implementation	1	I	1	1	U	1	1	U	1	1	U	1			
MA-008 Plan, Project Control	1	I	1	1	U	1	1	U	1	1	U	1			
MA-009 Plan, Organization	1	I	1	1	U	1	1	U	1	1	U	1			
MA-010 Plan, Project Communications	1	I	1	1	U	1	1	U	1	1	U	1			
MA-011 Plan, Security	1	I	1	1	U	1	1	U	1	1	U	1			
MA-012 Plan, Facility	1	I	1	1	U	1	1	U	1	1	U	1			
MA-025 Plan, Contingency Operation	1	I	1	1	U	1	1	U	1	1	U	1			
REPORTS															
MA-013 Report, Final Project				1	A/R	1	7	A/R	7	10	A/R	10			
MA-014 *Report, Project Review				1	A/R	1	7	A/R	7	10	A/R	10			
MA-015 Report, Proj. Problem/Action (Red Flag)	1	S/M	7	1	S/M	7	1	S/M	18	1	S/M	24			
MA-016 Report, Proj. Progress (Monthly)	1	Mo	4	1	Mo	3	1	Mo	9	1	Mo	12			
MA-017 Report, Proj. Review Sched. & Agenda	1	Mo	4	1	Mo	4	1	Mo	9	1	Mo	12			
MA-018 Report, Film	1	S/A	1	1	S/A	1	1	S/A	1	1	S/A	2			
MA-019 Report, Quarterly, Written	1	Q	1	1	Q	1	1	Q	3	1	Q	4			
MA-020 Report, Resources Rqmts/Avialability	1	Mo	4	1	Mo	3	1	Mo	9	1	Mo	12			
MA-021 Report, Weekly Activity	1	Wk	15	1	Wk	15	1	Wk	40	1	Wk	52			
MA-022 Report, Sched/Cost Coupling Summ. (Mnthly)	1	Mo	4	1	Mo	3	1	Mo	9	1	Mo	12			
MA-023 *Report, Schedule/Cost Coupling	1	Wk	15	1	Wk	15	1	Wk	40	1	Wk	52			
MA-024 Report, Contact	60	A/R	60	120	A/R	120	300	A/R	300	1000	A/R	1000			
TOTALS			531			528			1141			2183			

*Key Informal Data

A	Annual	O/T	One Time	I	Initial	CDR	Critical Design Rev
S/A	Semi-Annual	A/R	As Required	F	Final	FACI	First Article Config
WK	Weekly	U	Update	N/R	New and Revised	MAR	Mission Acceptance
MO	Monthly	I/U	One Update	SDR	System Design Review	J FACT	Joint Flight Acceptance
B/W	Bi-Weekly	DA	Daily	PDR	Preliminary Design Review		Composite Testing
B/M	Bi-Monthly	Q	Quarterly	HDR	Hard Design Review		



ITEM	FREQUENCY	TOTAL	QUANTITY	FREQUENCY	TOTAL	QUANTITY	FREQUENCY	TOTAL	QUANTITY	FREQUENCY	TOTAL	TOTALS	NOTES AND ASSUMPTIONS
50	A/R	50	25	A/R	25	10	A/R	10	10	A/R	10	295	
59	Mo	1000	71	Mo	1000	115	Mo	350	125	Mo	250	4350	
4	Mo	68	2	Mo	28							261	
4	Mo	68	2	Mo	28							261	
1	Mo	17	1	Mo	14	1	Mo	3	1	Mo	2	64	
1	Wk	74	1	Wk	61	1	Wk	10	1	Wk	10	277	
1	U	1										5	
1	U	1										5	
1	U	1										5	
1	U	1										5	
1	U	1										5	
1	U	1										5	
12	A/R	12	15	A/R	15	10	A/R	10	6	A/R	6	61	Contract Completion
1	S/M	34	1	S/M	28	1	S/M	5	1	S/M	5	128	Reports results of major reviews (Quart., Design, etc.)
1	Mo	17	1	Mo	14	1	Mo	3	1	Mo	2	64	
1	Mo	17	1	Mo	14	1	Mo	3	1	Mo	2	65	
1	S/A	3	1	S/A	2	1	S/A	1	1	S/A	1	12	
1	Q	6	1	Q	4	1	Q	1	1	Q	1	21	
1	Mo	17	1	Mo	14	1	Mo	3	1	Mo	2	64	
1	Wk	74	1	Wk	61	1	Wk	10	1	Wk	10	277	
1	Mo	17	1	Mo	14	1	Mo	3	1	Mo	2	64	
1	Wk	74	1	Wk	61	1	Wk	10	1	Wk	10	277	
500	A/R	2000	1200	A/R	1200	500	A/R	500	300	A/R	300	5480	
		3555			2583			922			614	12057	

ation Inspection
review

Figure I-6. Overall Management Data Item Phasing and Frequency Matrix

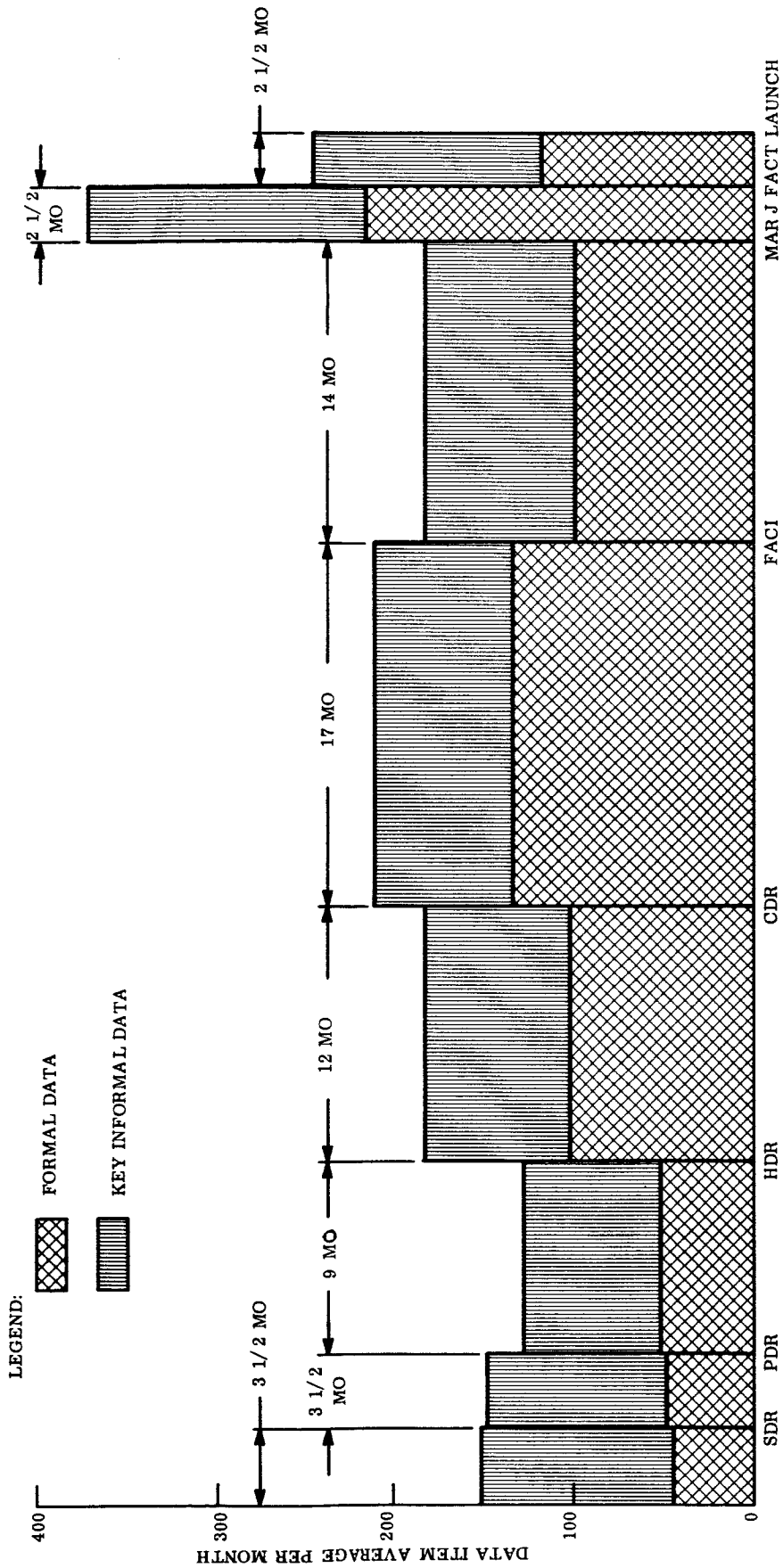
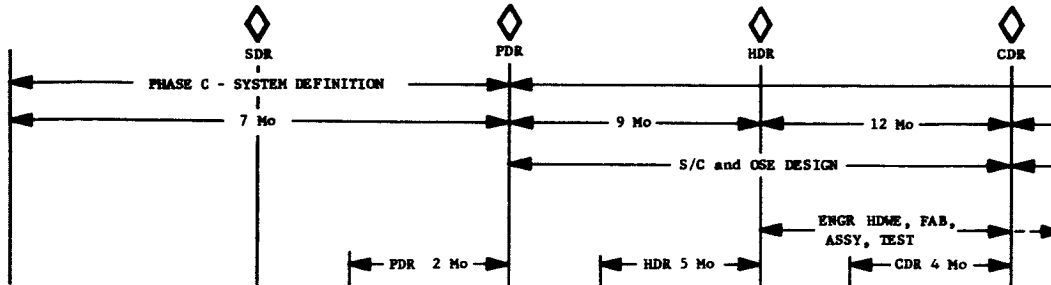


Figure I-7. Overall Management Data Item Density Profile

SCHEDULING

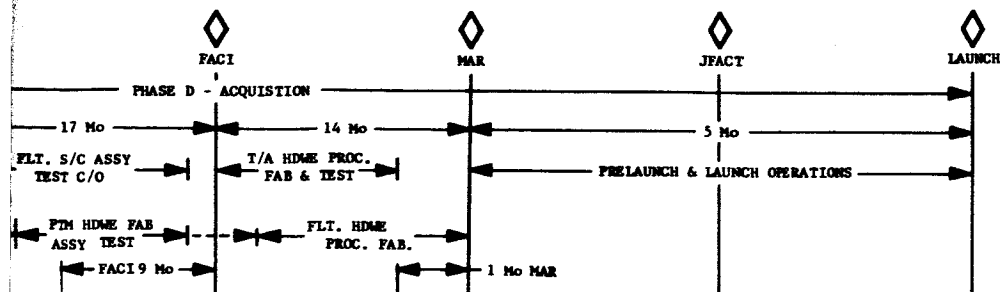
(SC)



DATA ITEM TITLE	PHASE C - SYSTEM DEFINITION			S/C and OSE DESIGN			ENGR HDWE, FAB, ASSY, TEST			CDR		
	QUANTITY	FREQUENCY	TOTAL	QUANTITY	FREQUENCY	TOTAL	QUANTITY	FREQUENCY	TOTAL	QUANTITY	FREQUENCY	TOTAL
DIRECTIVES (SC)												
SC-001 *Schedule Change Request/Notice	15	A/R	15	15	A/R	15	40	A/R	40	50	A/R	50
LISTS												
SC-014 *List, Special Schedule Printouts	5	Wk	75	5	Wk	75	5	Wk	200	5	Wk	260
REPORTS												
SC-008 Report, Project Level PERT	1	B/W	7	1	B/W	7	1	B/W	20	1	B/W	26
SC-009 Report, Project Level Milestones	1	WK	15	1	WK	15	1	WK	40	1	WK	52
SC-010 Report, Task and Sub-Task Level PERT	1	B/W	7	1	B/W	7	1	B/W	20	1	B/W	26
SC-011 Report, Task and Sub-Tsk Lvl Milestones	1	B/W	7	1	B/W	7	1	B/W	20	1	B/W	26
SC-012 *Report, Detail PERT Fragnet Status	1	B/W	7	1	B/W	7	1	B/W	20	1	B/W	26
SC-013 *Report, Work Package and Acct Level Mil.	1	B/W	7	1	B/W	7	1	B/W	20	1	B/W	26
SCHEDULES												
SC-002 Schedule, Project Level (PERT)	1	B/W	7	1	B/W	7	1	B/W	20	1	B/W	26
SC-003 Schedule, Project Level (Milestone)	1	I	1	1	Q	1	1	Q	3	1	Q	4
SC-004 Schedule, Task and Sub-Task Level (PERT)	1	B/W	7	1	B/W	7	1	B/W	20	1	B/W	26
SC-005 Schedule, Task & Sub-T. Level (Milestone)	1	B/W	7	1	B/W	7	1	B/W	20	1	B/W	26
SC-006 *Schedule, Detail PERT Fragnets	1	B/W	7	1	B/W	7	1	B/W	20	1	B/W	26
SC-007 *Schedule, Work Package and Cost Account Level (Milestone)	1	W	15	1	W	15	1	W	40	1	W	52
TOTALS			184			184			503			652

*Key Informal Data

A	Annual	O/T	One Time	I	Initial	CDR	Critical Design Review
S/A	Semi-Annual	A/R	As Required	F	Final	FACI	First Article Configuration
WK	Weekly	U	Update	N/R	New and Revised	MAR	Mission Acceptance Review
MO	Monthly	I/U	One Update	SDR	System Design Review	J FACT	Joint Flight Acceptance
B/W	Bi-Weekly	DA	Daily	PDR	Preliminary Design Review		Composite Testing
B/M	Bi-Monthly	Q	Quarterly	HDR	Hard Design Review		



ITEM	FREQUENCY	TOTAL	QUANTITY	FREQUENCY	TOTAL	QUANTITY	FREQUENCY	TOTAL	QUANTITY	FREQUENCY	TOTAL	TOTALS	NOTES AND ASSUMPTIONS
	A/R	50	50	A/R	50	40	A/R	40	25	A/R	25	285	
	Wk	370	5	Wk	305	5	Wk	50	5	Wk	50	1385	5 different types of schedule sorts to be provided each week.
	B/W	37	1	B/W	30	1	B/W	5	1	B/W	5	137	
	WK	74	1	WK	61	1	WK	10	1	WK	10	277	
	B/W	37	1	B/W	30	1	B/W	5	1	B/W	5	137	
	B/W	37	1	B/W	30	1	B/W	5	1	B/W	5	137	
	B/W	37	1	B/W	30	1	B/W	5	1	B/W	5	137	
	B/W	37	1	B/W	30	1	B/W	5	1	B/W	5	137	
	B/W	37	1	B/W	30	1	B/W	5	1	B/W	5	137	
	B/W	37	1	B/W	30	1	B/W	5	1	B/W	5	137	
	B/W	37	1	B/W	30	1	B/W	5	1	B/W	5	137	
	Q	5	1	Q	5	1	Q	1	1	Q	1	21	
	B/W	37	1	B/W	30	1	B/W	5	1	B/W	5	137	
	B/W	37	1	B/W	30	1	B/W	5	1	B/W	5	137	
	B/W	37	1	B/W	30	1	B/W	5	1	B/W	5	137	
	W	74	1	W	61	1	W	10	1	W	10	277	
		906			752			156			141	3,478	

ation Inspection
 Review
 e

Figure I-8. Scheduling Data Item Phasing and Frequency Matrix

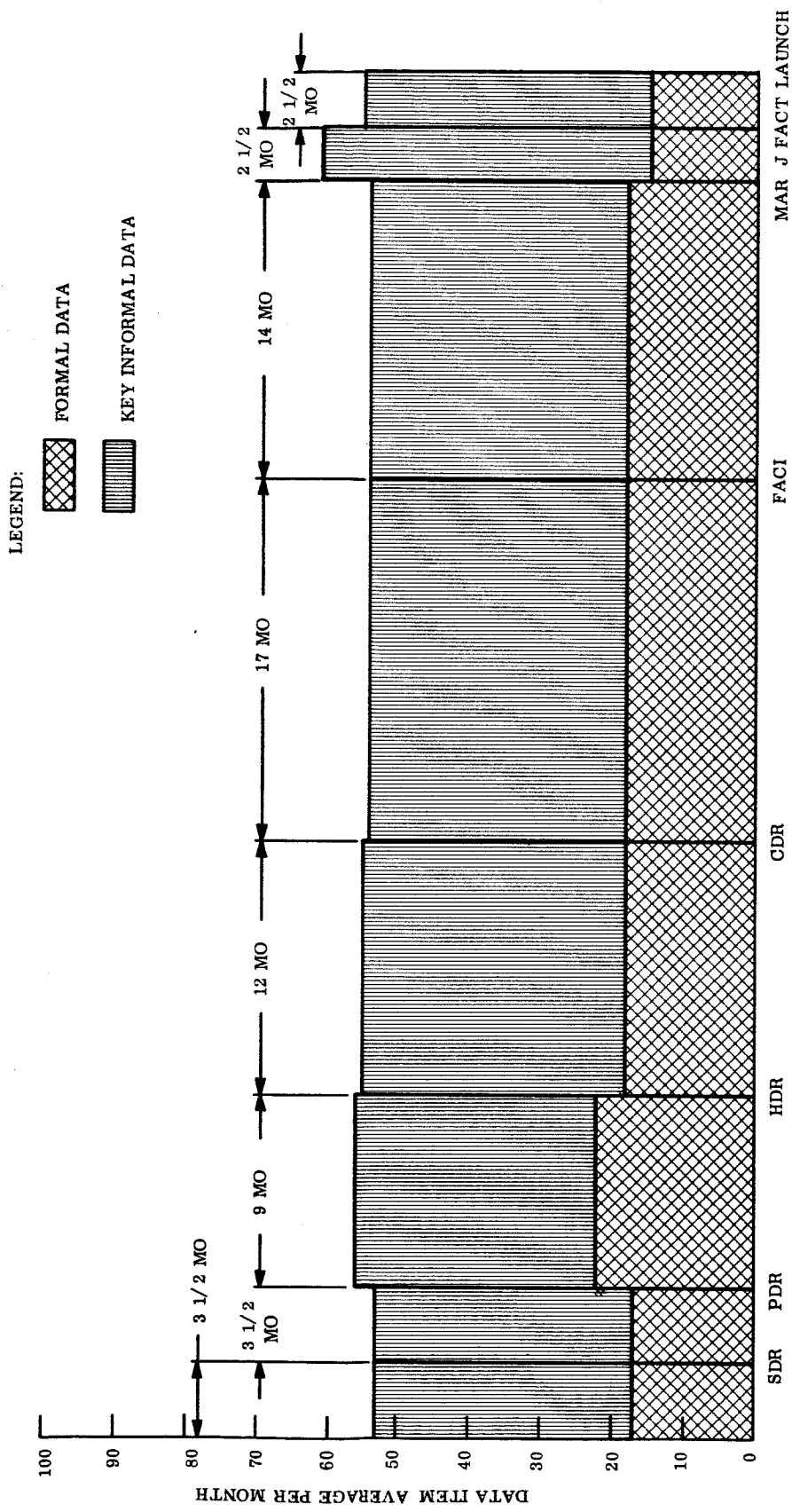
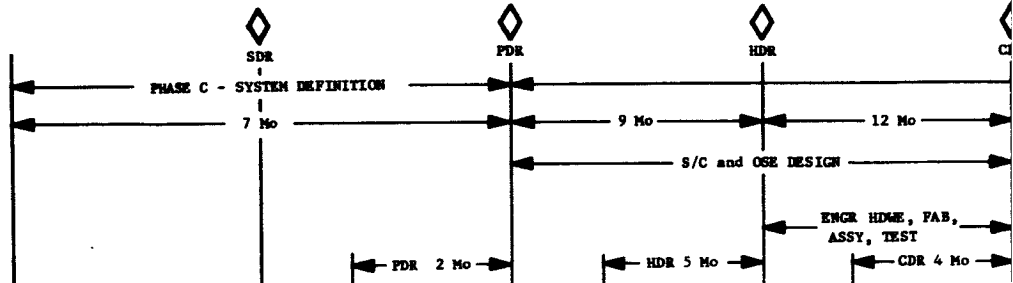


Figure I-9. Scheduling Data Item Density Profile

MANNING & FINANCE
(MF)

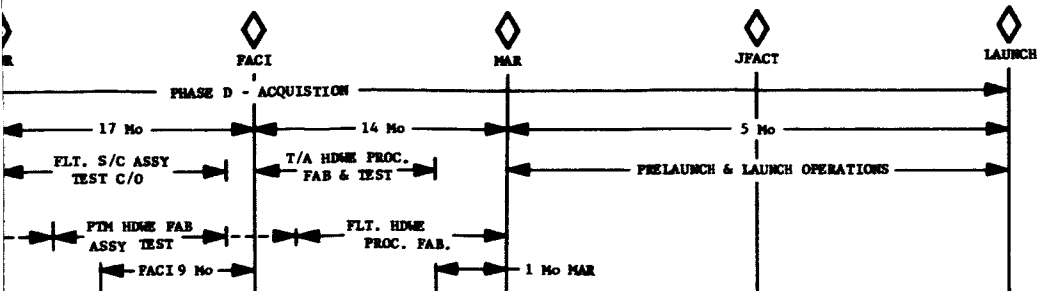


DATA ITEM
TITLE

	QUANTITY	FREQUENCY	TOTAL	QUANTITY	FREQUENCY	TOTAL	QUANTITY	FREQUENCY	TOTAL	QUANTITY	FREQUENCY	TOTAL
REPORTS												
MF-001 *Report, Material Commitment	8	wk	120	8	wk	120	8	wk	320	8	wk	416
MF-002 Report, Contractor Financial Mgt	1	mo	3	1	mo	4	1	mo	9	1	mo	12
MF-003 Report, Overtime	8	wk	120	8	wk	120	8	wk	320	8	wk	416
MF-004 *Report, Vouchered Hours	8	wk	120	8	wk	120	8	wk	320	8	wk	416
MF-005 *Report, Project Financial Performance	8	MO	26	8	MO	26	8	MO	72	8	MO	96
MF-006 *Report, Manpower	8	wk	120	8	wk	120	8	wk	320	8	wk	416
	8	mo	24	8	mo	32	8	mo	72	8	mo	96
TOTALS			581			642			1,577			2,060

*Key Informal Data

A	Annual	O/T	One Time	I	Initial	CDR	Critical Design
S/A	Semi-Annual	A/R	As Required	F	Final	FACI	First Article C
WK	Weekly	U	Update	N/R	New and Revised	MAR	Mission Accept
MO	Monthly	I/U	One Update	SDR	System Design Review	J FACT	Joint Flight Ac
B/W	Bi-Weekly	DA	Daily	PDR	Preliminary Design Review		Composite T
B/M	Bi-Monthly	Q	Quarterly	HDR	Hard Design Review		



QUANTITY	FREQUENCY	TOTAL	QUANTITY	FREQUENCY	TOTAL	QUANTITY	FREQUENCY	TOTAL	QUANTITY	FREQUENCY	TOTAL	TOTALS	NOTES AND ASSUMPTIONS
8	wk	592	8	wk	488	8	wk	80	8	wk	80	2728	Two types reports in four levels of detail
8	mo	136	8	mo	112	8	mo	24	8	mo	16	64	
1	mo	17	1	mo	14	1	mo	3	1	mo	2	2728	Two types of reports in four levels of detail
8	wk	592	8	wk	488	8	wk	80	8	wk	80	2216	Two types of reports in four levels of detail
8	mo	136	8	mo	112	8	mo	24	8	mo	16	508	
8	wk	592	8	wk	488	8	wk	80	8	wk	80	2728	Two Types of Reports in 4 Levels of Details
8	mo	136	8	mo	112	8	mo	24	8	mo	16		
		2,929			2,414			415			390	10,972	

Review
 Configuration Inspection
 Acceptance Review
 Acceptance
 Testing

Figure I-10. Manning and Financial Data Item Phasing and Frequency Matrix

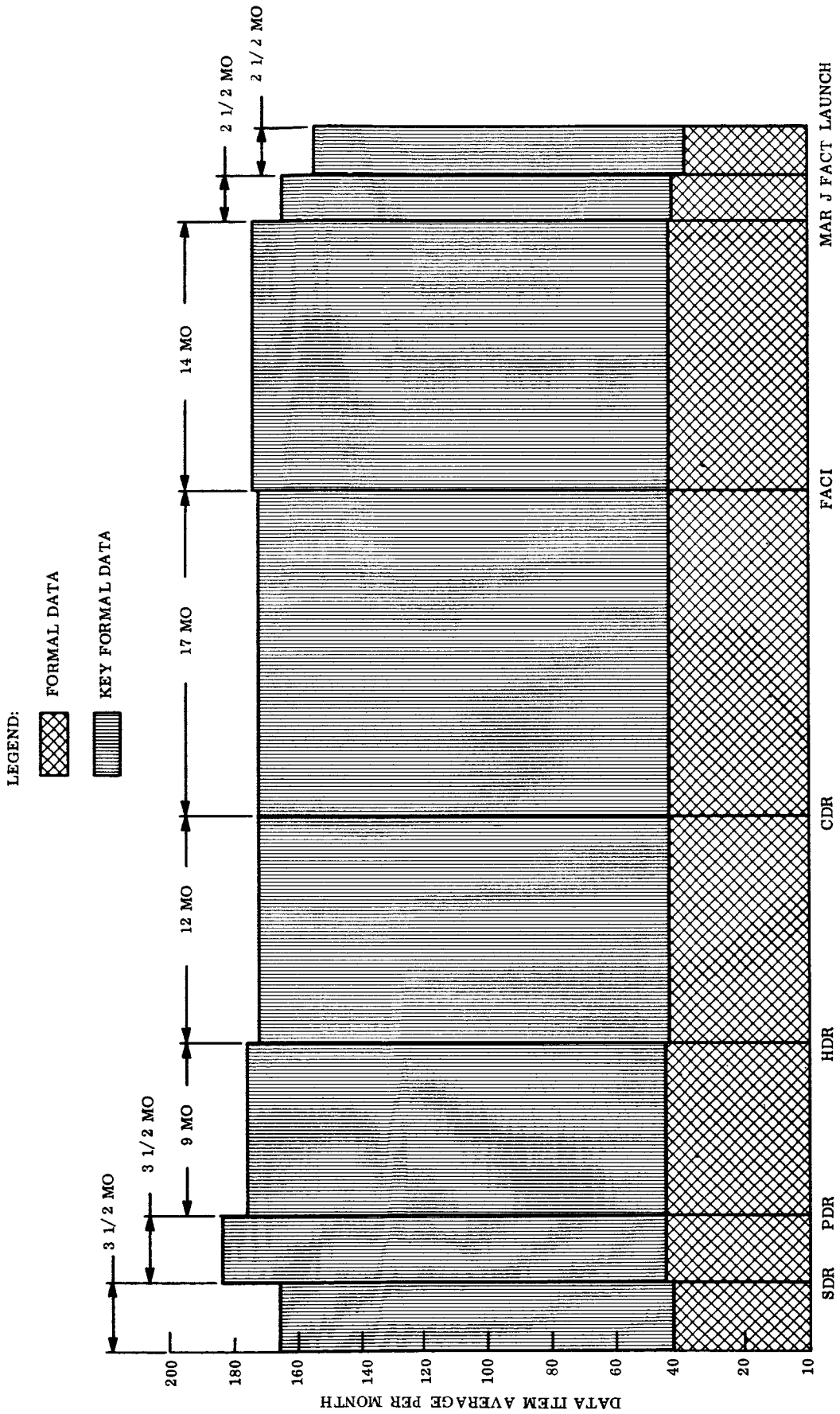


Figure I-11. Manning and Financial Data Item Density Profile