

FINAL REPORT
DATA MANAGEMENT STUDY,
APPENDIX L
CONTRACTOR DATA REQUIREMENTS
FACILITIES (FA)

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VOYAGER SPACECRAFT SYSTEM PROJECT

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VOYAGER SPACECRAFT SYSTEM PROJECT

PREPARED FOR
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
NASA PASADENA OFFICE
PASADENA, CALIFORNIA

UNDER NASA CONTRACT NO. NAS7-584

GENERAL  ELECTRIC
MISSILE AND SPACE DIVISION
Valley Forge Space Technology Center
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INTRODUCTION

1.1 DEFINITION - FACILITIES (FA)

These data relate to the planning, design estimating, approval, scheduling construction, inspection, testing, and control of Project facilities, but do not pertain to the activation phases of facilities. Activation phase data are included in the category of the user of the facility, i. e., test or site activation for launch. The overall integration of facilities with the total program is usually treated in documents covering overall management and/or scheduling.

1.2 SCOPE

Facility planning requests initiate the preparation of facility requirement and design specifications. These, in turn, establish the basis for the ultimate procurement of the required facility. The inspections and test of the finished facility prepares it for activation and application in accordance with its planned usage.

DATA ITEM NUMBER	DATA ITEM FACILITIES	DESCRIPTION
FA-001	*Drawings, Plant Layout	Used to develop and display overall space utilization and one organizational top approval as appropriate.
FA-002	*Instructions, Operating, Support and Service Facilities	Operating instructions for complex facility in
FA-003	*List, GE Property	GE-owned property at all contributing locations
FA-004	List, Government Property	Government-owned property at all contributing locations
FA-005	*Plan, Facilities Acceptance, Activation, and Maintenance	Defines required maintenance for major facilities and procedure for activating new facilities
FA-007	Plan, Facility	Overall project facility plan.
FA-009	*Report, Status, Facility and Floor Space Utilization	Provides identification of facility problem and utilization by type and function.
FA-010	Report, Analysis of Industrial Facilities and Material	Source document used by Government Property Form 1018.
FA-012	*Request, Facilities Planning	A request by any function for office facilities, facilities and to obtain office furniture and equipment
FA-013	Specification, Facility Requirement	Detailed facility requirements to be used by facility design drawings.
FA-015	Specification, Facility Design	Detailed specifications provided for a facility

* 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	
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, lab, shop, or functional quipment.	-	-	R	-	R	-	-	-	-	-	U	U	-	U	A	
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design.	-	-	-	-	-	U	-	-	PM	-	U	-	-	-	R	

U - USE

R - REVIEW AUTHORITY

A - APPROVAL AUTHORITY

PM - PROJECT MANAGER APPROVAL

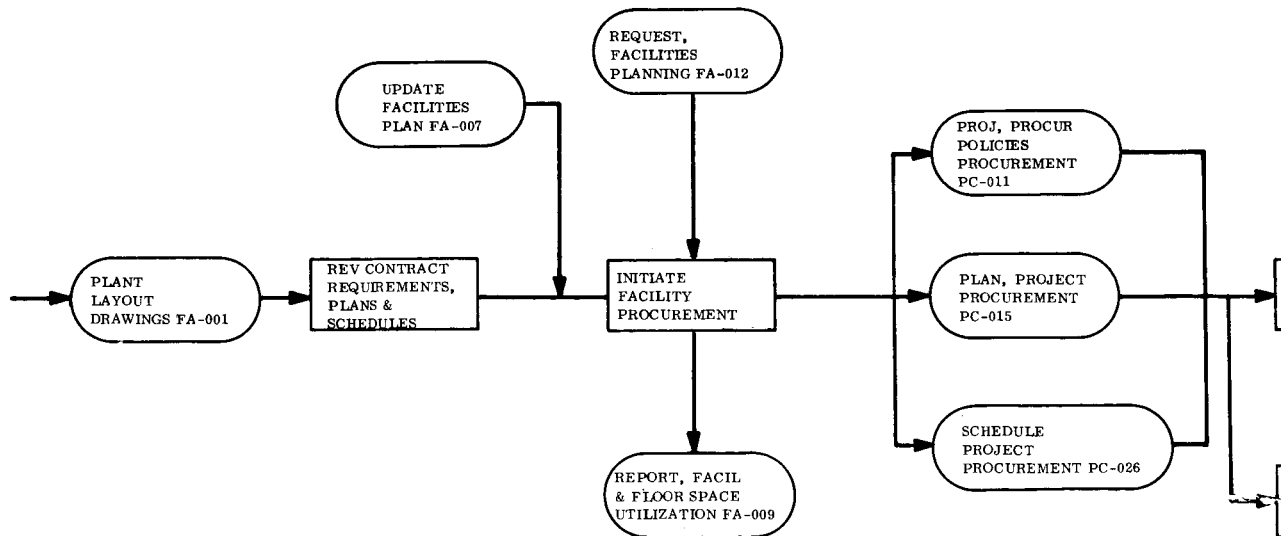
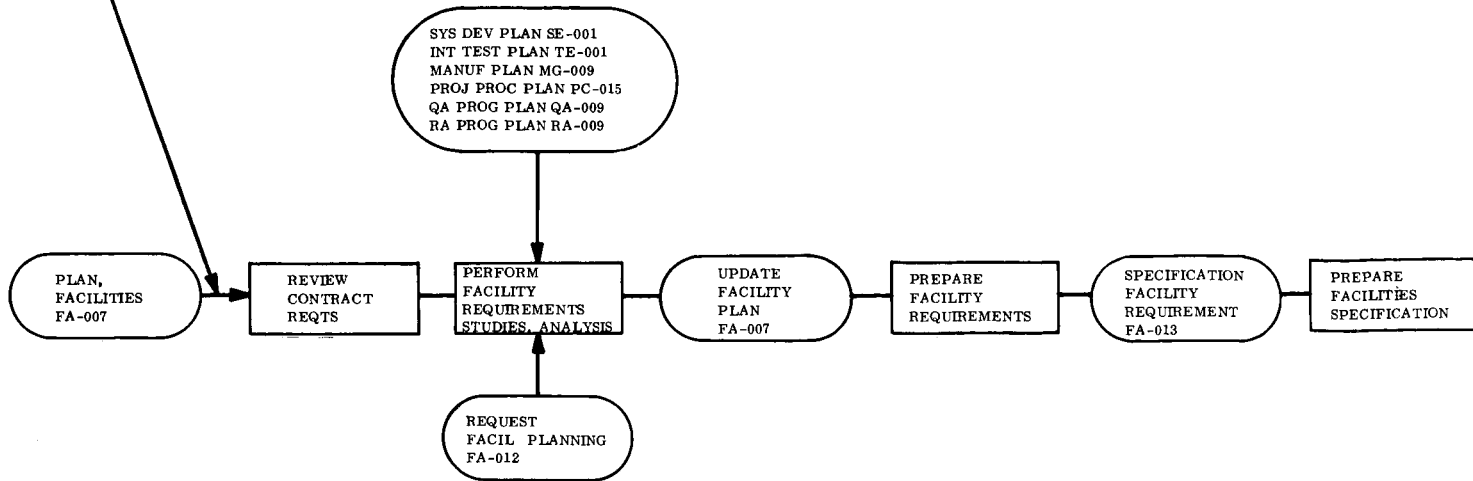
					APPLICABILITY AT SUBCONTRACTOR/VENDOR/SUPPLIER LEVELS							APPLICABILITY TO PROJECT BOARDS										
					PRINCIPAL SUB-CONTRACTORS	MAJOR SUB-CONTRACTORS	KEY SUBCON AND VENDORS	OTHER VENDORS	KEY SUPPLIERS	KEY SUBSUPPLIERS	CONFIGURATION CONTROL	CONFIGURATION MANAGEMENT	DATA REVIEW	DESIGN REVIEW	FAILURE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

Contractor - user flow diagrams show the relationship between Voyager system documentation and the activities undertaken by the prime spacecraft contractor. The diagrams are intended to be a communication tool which describes the project in terms which emphasize documentation and as a planning tool for the integration of data management activities into the overall project management scheme.

The project is considered in a generalized sense, in that sub-systems and components are each treated as collective entities; that is, the documentation flows associated with the several sub-systems are not distinguished. A single representative flow is presented.

CONTRACT AWARD



LEGEND:



ACTIVITY, WITH DESCRIPTION INSIDE



DATA ITEM(S) WITH TITLE(S) INSIDE

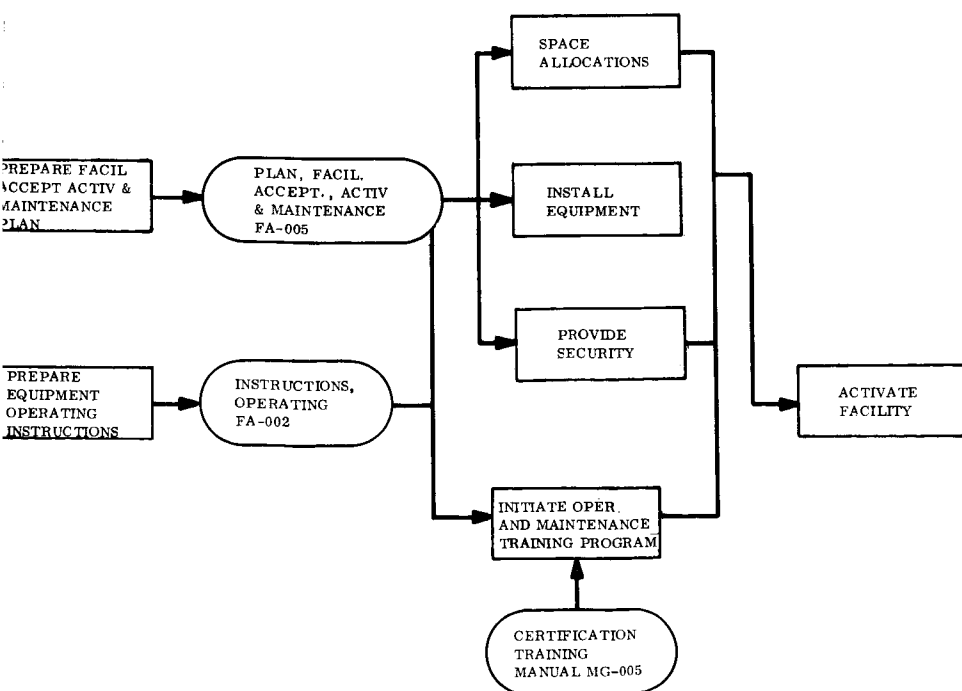
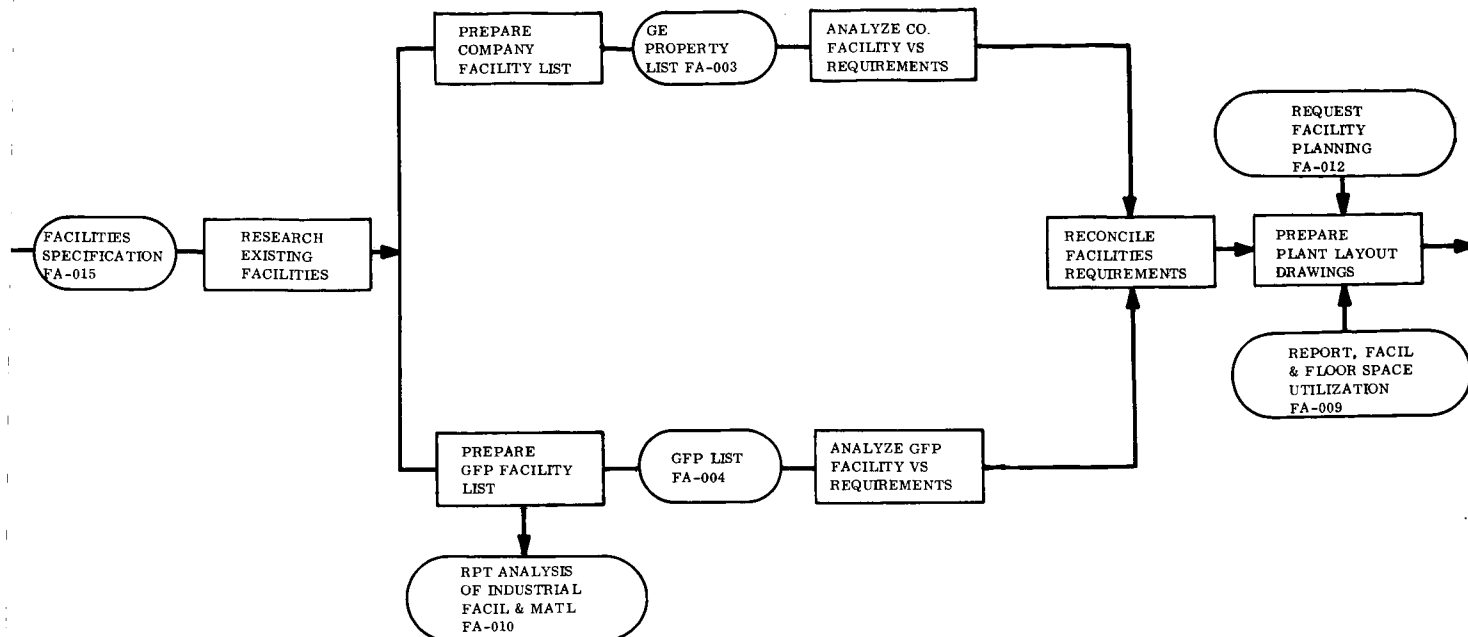


Figure L-1. Facilities User Flow Diagram

Facilities Data Requirement Descriptions

<u>DRD Number</u>	<u>Title</u>
FA-001	*Drawings, Plant Layout
FA-002	*Instructions, Operating, Support and Service Facilities
FA-003	*List, GE Property
FA-004	List, Government Property
FA-005	*Plan, Facilities Acceptance, Activation, and Maintenance
FA-007	Plan, Facility
FA-009	*Report, Status, Facility and Floor Space Utilization
FA-010	Report, Analysis of Industrial Facilities and Material
FA-012	*Request, Facilities Planning
FA-013	Specification, Facility Requirement
FA-015	Specification, Facility Design

*Key Informal Data

GE EXHIBIT DRD FA-001

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.:	DRD NO.:										
		FA			A.N. Reagan	7/28/67			FA-001										
TITLE OF DOCUMENT: *DRAWINGS, PLANT LAYOUT					ORGANIZATION RESPONSIBLE FOR DOCUMENT PREPARATION:		TASK OR SUBTASK:		DRD ITEM NO.:										
					Facilities														
					ORGANIZATION RESPONSIBLE FOR DOCUMENT REPRODUCTION:		DRL NO.:		LEVEL NO.:										
					ORGANIZATION RESPONSIBLE FOR DOCUMENT DISTRIBUTION:		DDL NO.:		FILE NO.:										
TYPE OF DOCUMENT: ☒ CONTROL ☐ ACTION ☐ REFERENCE ☐ INFORMATION					ORGANIZATION RESPONSIBLE FOR DOCUMENT STOWAGE:		NO. OF COPIES:												
USE OF DOCUMENT: Plant layout drawings will be used for overall space utilization planning and detailed working plans for Voyager facilities.							5												
					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: FA-012, Request, Facilities Planning					FREQUENCY OF ISSUE:		PUBLICATION DATE:												
					☐ ANNUALLY ☐ SEMI-ANNUALLY ☐ QUARTERLY ☐ BI-MONTHLY ☐ MONTHLY ☐ SEMI-MONTHLY ☐ BI-WEEKLY ☐ WEEKLY ☐ DAILY ☒ OTHERWISE, AS SPECIFIED As required		SDR												
							UPDATE (FREQUENCY OR MILESTONE): As required												
CLASSIFICATION:					ESTIMATED COST (\$)		ESTIMATED EXPIRATION DATE:												
☐ SECRET ☐ CONFIDENTIAL ☐ SECRET RESTRICTED DATA ☐ CONFIDENTIAL RESTRICTED DATA ☒ UNCLASSIFIED					As required														
FORM OF DATA: ☐ PRINTED DOCUMENT ☐ CHART ☐ DIAGRAM ☒ DRAWING ☐ FILM (STATIC OR MOTION) ☐ ILLUSTRATION ☐ MODEL ☐ RECORDING (TAPE OR DISC) ☐ COMPUTER CARD ☐ COMPUTER TAPE ☐ MICROFILM (W/OR W/O CARD) ☐ OTHER					KIND OF DATA:					REFERENCE DOCUMENTS:									
					☐ ABSTRACT ☐ BROCHURE ☐ BULLETIN ☐ CATALOG ☐ CONTRACT ☐ DIRECTIVE ☒ DISCLOSURE ☐ ENGINEERING CHANGE ORDER ☐ REQUEST FOR ENGINEERING CHANGE PROPOSAL ☐ ENGINEERING CHANGE PROPOSAL ☐ HANDBOOK ☐ INDEX					☐ INSTRUCTION ☐ LETTER ☐ LIST ☐ LOG ☐ MANUAL ☐ MEMORANDUM ☐ MINUTES ☐ PLAN ☐ PROCEDURE ☐ REGULATION ☐ REPORT ☐ SCHEDULE ☐ SPECIFICATION ☐ STANDARD ☐ VOUCHER					APPLICABLE STANDARDS:				
REVIEWS AND/OR APPROVALS REQUIRED: (LIST IN ORDER OF SUBMITTAL)																			
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SUBMIT FOR APPROVAL TO: _____																			
Project Manager																			

GE EXHIBIT DRD FA-001

VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

DRD NO.:

FA-001

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

OUTLINE OF CONTENTS:

Delineates information such as location, size, clearances, special environmental conditions, equipment included, etc., as required to permit the erection of the required office, lab, or shop facility.

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

VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

DRD NO.:
FA-002

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

OUTLINE OF CONTENTS:

1. Name of facility
2. Location of facility
3. Operating specifications, limitations
4. Start up - operating - shutdown instructions
5. Emergency shutdown procedures
6. Safety precautions
7. Other items of information considered important in specific cases.

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

GE EXHIBIT DRD FA-003

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TITLE OF DOCUMENT: *LIST, GE PROPERTY				ORGANIZATION RESPONSIBLE FOR DOCUMENT PREPARATION: Facilities		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: ☐ CONTROL ☐ ACTION ☐ REFERENCE ☒ INFORMATION				USE OF DOCUMENT: Used to maintain records of GE-owned property		NO. OF COPIES: 1																																					
INTERRELATIONSHIP WITH OTHER DATA REQUIREMENTS: FA-012, Request, Facilities Planning				ESTIMATED MANHOURS FOR SINGLE PREPARATION:		INFORMATION CUTOFF DATE OR MILESTONE:																																					
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CLASSIFICATION: ☐ SECRET ☐ CONFIDENTIAL ☐ SECRET RESTRICTED DATA ☐ CONFIDENTIAL RESTRICTED DATA ☒ UNCLASSIFIED				☐ GROUP 1 ☐ GROUP 2 ☐ GROUP 3 ☐ GROUP 4 ☐ PROPRIETARY ☐ PUBLIC DOMAIN ☐ SPECIAL HANDLING ☐ NASA DISCREET ☐ JPL DISCREET ☐ PROJECT DISCREET ☐ NOFORN																																							
FORM OF DATA: ☐ PRINTED DOCUMENT ☐ CHART ☐ DIAGRAM ☐ DRAWING ☐ FILM (STATIC OR MOTION) ☐ ILLUSTRATION ☐ MODEL ☐ RECORDING (TAPE OR DISC) ☐ COMPUTER CARD ☐ COMPUTER TAPE ☒ MICROFILM (W/OR W/O CARD) ☒ OTHER ADP Printout				KIND OF DATA: ☐ ABSTRACT ☐ BROCHURE ☐ BULLETIN ☐ CATALOG ☐ CONTRACT ☐ DIRECTIVE ☐ DISCLOSURE ☐ ENGINEERING CHANGE ORDER ☐ REQUEST FOR ENGINEERING CHANGE PROPOSAL ☐ ENGINEERING CHANGE PROPOSAL ☐ HANDBOOK ☐ INDEX ☐ INSTRUCTION ☐ LETTER ☒ LIST ☐ LOG ☐ MANUAL ☐ MEMORANDUM ☐ MINUTES ☐ PLAN ☐ PROCEDURE ☐ REGULATION ☐ REPORT ☐ SCHEDULE ☐ SPECIFICATION ☐ STANDARD ☐ VOUCHER																																							
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APPLICABLE STANDARDS:																																											
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VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

DRD NO.:

FA-003

SPECIAL INSTRUCTIONS:

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

OUTLINE OF CONTENTS:

This list will be maintained on computer and will contain the following information as a minimum:

1. Item name
2. Description
3. Identification
4. Source
5. Present location
6. First cost or value when obtained
7. References

The list shall be so stored as to permit printout by location (i. e., VFSTC, subcontractor A, B, etc.) or by other reference.

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

GE EXHIBIT DRD FA-004

VOYAGER DATA REQUIREMENT DESCRIPTION				DRD APPROVED BY:		DATE:	DATA CATEGORY:				
ORGANIZATION ORIGINATING REQUIREMENT:	CODE: FA	OFFICE RESPONSIBLE FOR DRD:	CODE:	DRD PREPARED BY: A. N. Reagan	DATE: 7/28/67	CONTRACT NO.:	DRD NO.: FA-004				
TITLE OF DOCUMENT: LIST, GOVERNMENT PROPERTY				ORGANIZATION RESPONSIBLE FOR DOCUMENT PREPARATION: Facilities		TASK OR SUBTASK:	DRL ITEM NO.:				
				ORGANIZATION RESPONSIBLE FOR DOCUMENT REPRODUCTION:		DRL NO.:	LEVEL NO.:				
				ORGANIZATION RESPONSIBLE FOR DOCUMENT DISTRIBUTION:		DDL NO.:	FILE NO.:				
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USE OF DOCUMENT: Used to maintain records of Government-owned property				ORGANIZATION RESPONSIBLE FOR DOCUMENT STOWAGE:		NO. OF COPIES: 1					
				ESTIMATED MANHOURS FOR SINGLE PREPARATION:		INFORMATION CUTOFF DATE OR MILESTONE:					
				ESTIMATED COST (\$) FOR SINGLE PREPARATION:		DATE DATA DUE TO USER:					
				FREQUENCY OF ISSUE: ☐ ANNUALLY ☐ SEMI-ANNUALLY ☐ QUARTERLY ☐ BI-MONTHLY ☐ MONTHLY ☐ SEMI-MONTHLY ☐ BI-WEEKLY ☐ WEEKLY ☐ DAILY ☒ OTHERWISE, AS SPECIFIED As required		PUBLICATION DATE: SDR UPDATE (FREQUENCY OR MILESTONE): As required ESTIMATED EXPIRATION DATE:					
INTERRELATIONSHIP WITH OTHER DATA REQUIREMENTS: FA-010, Report, Analysis of Industrial Facilities and Material FA-012, Request, Facilities Planning											
CLASSIFICATION: ☐ SECRET ☐ CONFIDENTIAL ☐ SECRET RESTRICTED DATA ☐ CONFIDENTIAL RESTRICTED DATA ☒ UNCLASSIFIED				☐ GROUP 1 ☐ GROUP 2 ☐ GROUP 3 ☐ GROUP 4 ☐ PROPRIETARY ☐ PUBLIC DOMAIN				☐ SPECIAL HANDLING ☐ NASA DISCREET ☐ JPL DISCREET ☐ PROJECT DISCREET ☐ NOFORN			
FORM OF DATA: ☐ PRINTED DOCUMENT ☐ CHART ☐ DIAGRAM ☐ DRAWING ☐ FILM (STATIC OR MOTION) ☐ ILLUSTRATION ☐ MODEL ☐ RECORDING (TAPE OR DISC) ☐ COMPUTER CARD ☐ COMPUTER TAPE ☐ MICROFILM (W/OR W/O CARD) ☒ OTHER <u>ADP printout</u>				KIND OF DATA: ☐ ABSTRACT ☐ BROCHURE ☐ BULLETIN ☐ CATALOG ☐ CONTRACT ☐ DIRECTIVE ☐ DISCLOSURE ☐ ENGINEERING CHANGE ORDER ☐ REQUEST FOR ENGINEERING CHANGE PROPOSAL ☐ ENGINEERING CHANGE PROPOSAL ☐ HANDBOOK ☐ INDEX				☐ INSTRUCTION ☐ LETTER ☒ LIST ☐ LOG ☐ MANUAL ☐ MEMORANDUM ☐ MINUTES ☐ PLAN ☐ PROCEDURE ☐ REGULATION ☐ REPORT ☐ SCHEDULE ☐ SPECIFICATION ☐ STANDARD ☐ VOUCHER			
				REFERENCE DOCUMENTS: Government Property Manual NASA Procurement Regulations NASA Industrial Property Control Manual							
				APPLICABLE STANDARDS:							
REVIEWS AND/OR APPROVALS REQUIRED: (LIST IN ORDER OF SUBMITTAL)											
DRAFT		DATE		PREPUBLICATION PROOF		DATE					
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_____		BY _____		_____		BY _____					
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SUBMIT FOR APPROVAL TO: _____		BY _____		_____		BY _____					
_____		_____		_____		_____					
<u>Manager, Facilities</u>		_____		_____		_____					

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FA-004

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OUTLINE OF CONTENTS:

This list will be maintained on computer and will contain the following information as a minimum:

1. Item name
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3. Identification
4. Source
5. Present location
6. First cost or value when obtained
7. References

The list shall be so stored as to permit printout by location (i. e., VFSTC, subcontractor A, B, etc.) or by other references.

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

GE EXHIBIT DRD FA-005

VOYAGER DATA REQUIREMENT DESCRIPTION				DRD APPROVED BY:		DATE:	DATA CATEGORY:
ORGANIZATION ORIGINATING REQUIREMENT:	CODE: FA	OFFICE RESPONSIBLE FOR DRD:	CODE:	DRD PREPARED BY: A. N. Reagan	DATE: 7/28/67	CONTRACT NO.:	DRD NO.: FA-005
TITLE OF DOCUMENT: *PLAN, FACILITIES ACCEPTANCE, ACTIVATION, AND MAINTENANCE				ORGANIZATION RESPONSIBLE FOR DOCUMENT PREPARATION: Facilities		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: ☒ CONTROL ☐ ACTION ☐ REFERENCE ☐ INFORMATION				ORGANIZATION RESPONSIBLE FOR DOCUMENT STOWAGE:		NO OF COPIES: 25	
USE OF DOCUMENT: This plan is prepared to summarize the requirements and procedure to be followed for the acceptance, management, and control in activating new or modified facilities. It will also serve to guide management in establishing and operating a sound maintenance program for all facilities.				ESTIMATED MANHOURS FOR SINGLE PREPARATION:		INFORMATION CUTOFF DATE OR MILESTONE:	
				ESTIMATED COST (\$) FOR SINGLE PREPARATION:		DATE DATA DUE TO USER:	
				FREQUENCY OF ISSUE: ☐ ANNUALLY ☐ SEMI-ANNUALLY ☐ QUARTERLY ☐ BI-MONTHLY ☐ MONTHLY ☐ SEMI-MONTHLY ☐ BI-WEEKLY ☐ WEEKLY ☒ OTHERWISE, AS SPECIFIED As required		PUBLICATION DATE: SDR UPDATE (FREQUENCY OR MILESTONE): As required ESTIMATED EXPIRATION DATE:	
INTERRELATIONSHIP WITH OTHER DATA REQUIREMENTS: FA-001. Drawings, Plant Layout FA-002. Instructions, Operating, Support and Service Facilities FA-007. Plan, Facility TE-157. Plan, Facilities Certification				REFERENCE DOCUMENTS: Government Property Manual NASA Procurement Regulations NASA Industrial Property Control Manual		CLASSIFICATION:	
						☐ SECRET ☐ GROUP 1 ☐ SPECIAL HANDLING ☐ CONFIDENTIAL ☐ GROUP 2 ☐ NASA DISCREET ☐ SECRET RESTRICTED DATA ☐ GROUP 3 ☐ JPL DISCREET ☐ CONFIDENTIAL RESTRICTED DATA ☐ GROUP 4 ☐ PROJECT DISCREET ☒ UNCLASSIFIED ☐ PROPRIETARY ☐ NOFORN ☐ PUBLIC DOMAIN	
FORM OF DATA: KIND OF DATA: ☒ PRINTED DOCUMENT ☐ ABSTRACT ☐ INSTRUCTION ☐ CHART ☐ BROCHURE ☐ LETTER ☐ DIAGRAM ☐ BULLETIN ☐ LIST ☐ DRAWING ☐ CATALOG ☐ LOG ☐ FILM (STATIC OR MOTION) ☐ CONTRACT ☐ MANUAL ☐ ILLUSTRATION ☐ DIRECTIVE ☐ MEMORANDUM ☐ MODEL ☐ DISCLOSURE ☐ MINUTES ☐ RECORDING (TAPE OR DISC) ☐ ENGINEERING CHANGE ORDER ☐ PROCEDURE ☐ COMPUTER CARD ☐ REQUEST FOR ENGINEERING CHANGE PROPOSAL ☐ REGULATION ☐ COMPUTER TAPE ☐ ENGINEERING CHANGE PROPOSAL ☐ REPORT ☐ MICROFILM (W/OR W/O CARD) ☐ SCHEDULE ☐ OTHER ☐ SPECIFICATION ☐ HANDBOOK ☐ INDEX ☐ 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 _____		_____	
_____		_____		_____		_____	
Manager, Facilities		_____		_____		_____	

VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

DRD NO.:

FA-005

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

OUTLINE OF CONTENTS:

1. The Facilities Maintenance Plan shall be prepared in detail sufficient to demonstrate its adequacy as a normal maintenance program for all contractor-owned and Government-furnished facilities. It shall include, but not be limited to, information such as kind and name of facility, routine maintenance schedules, proposed maintenance records, spare parts requirements, and methods of stocking.
2. The Facility Acceptance and Activation Plan will summarize all other schedules and plans concerning initial start-up of new and/or modified facilities. The plan will include, but will not be limited to, information such as assigned responsibilities and authorities, key milestones and dates for their achievement, standards criteria, subcontractors schedules, plans and operating instructions and acceptance criteria.

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

GE EXHIBIT DRD FA-007

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.:	DRD NO.:				
		FA			A.N. Reagan		7/28/67			FA-007				
TITLE OF DOCUMENT: PLAN, FACILITY					ORGANIZATION RESPONSIBLE FOR DOCUMENT PREPARATION:		TASK OR SUBTASK:		DRL ITEM NO.:					
					Facilities									
					ORGANIZATION RESPONSIBLE FOR DOCUMENT REPRODUCTION:		DRL NO.:		LEVEL NO.:					
					ORGANIZATION RESPONSIBLE FOR DOCUMENT DISTRIBUTION:		DDL NO.:		FILE NO.:					
TYPE OF DOCUMENT: ☒ CONTROL ☐ ACTION ☐ REFERENCE ☐ INFORMATION					ORGANIZATION RESPONSIBLE FOR DOCUMENT STORAGE:		NO. OF COPIES:							
USE OF DOCUMENT: To outline the Project facility requirements and to provide the detailed description of contractor, subcontractor, and Government facilities available or to be furnished.							25							
					ESTIMATED MANHOURS FOR SINGLE PREPARATION:		INFORMATION CUTOFF DATE OR MILESTONE:							
INTERRELATIONSHIP WITH OTHER DATA REQUIREMENTS: MA-007, Plan, Project Implementation TE-025, Manual, Test Facilities Description and Capabilities					ESTIMATED COST (\$) FOR SINGLE PREPARATION:		DATE DATA DUE TO USER:							
					FREQUENCY OF ISSUE: ☐ ANNUALLY ☐ SEMI-ANNUALLY ☐ QUARTERLY ☐ BI-MONTHLY ☐ MONTHLY ☐ SEMI-MONTHLY ☐ BI-WEEKLY ☐ WEEKLY ☐ DAILY ☒ OTHERWISE, AS SPECIFIED As required		PUBLICATION DATE: SDR UPDATE (FREQUENCY OR MILESTONE): As required ESTIMATED EXPIRATION DATE:							
CLASSIFICATION: ☐ SECRET ☐ CONFIDENTIAL ☐ SECRET RESTRICTED DATA ☐ CONFIDENTIAL RESTRICTED DATA ☒ UNCLASSIFIED					☐ GROUP 1 ☐ GROUP 2 ☐ GROUP 3 ☐ GROUP 4 ☐ PROPRIETARY ☐ PUBLIC DOMAIN		☐ SPECIAL HANDLING ☐ NASA DISCREET ☐ JPL DISCREET ☐ PROJECT DISCREET ☐ NOFORN							
FORM OF DATA: ☒ PRINTED DOCUMENT ☐ CHART ☐ DIAGRAM ☐ DRAWING ☐ FILM (STATIC OR MOTION) ☐ ILLUSTRATION ☐ MODEL ☐ RECORDING (TAPE OR DISC) ☐ COMPUTER CARD ☐ COMPUTER TAPE ☐ MICROFILM (W/OR W/O CARD) ☐ OTHER					KIND OF DATA: ☐ ABSTRACT ☐ BROCHURE ☐ BULLETIN ☐ CATALOG ☐ CONTRACT ☐ DIRECTIVE ☐ DISCLOSURE ☐ ENGINEERING CHANGE ORDER ☐ REQUEST FOR ENGINEERING CHANGE PROPOSAL ☐ ENGINEERING CHANGE PROPOSAL ☐ HANDBOOK ☐ INDEX					REFERENCE DOCUMENTS: Kennedy Space Flight Center Facility Description DSN Facility Description Government Property Manual				
					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

SPECIAL INSTRUCTIONS:

DRD NO.:

FA-007

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 Shop

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.)

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:

Part 1 -- Facilities similar to those described above in Category I

Part 2 -- Launch Operations Facilities

Part 3 -- Mission Operation Phase Facilities

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

GE EXHIBIT DRD FA-009

VOYAGER DATA REQUIREMENT DESCRIPTION						DRD APPROVED BY:		DATE:		DATA CATEGORY:	
ORGANIZATION ORIGINATING REQUIREMENT:		CODE: FA	OFFICE RESPONSIBLE FOR DRD:		CODE:	DRD PREPARED BY: A.N. Reagan		DATE: 7/28/67		CONTRACT NO.:	DRD NO.: FA-009
TITLE OF DOCUMENT: *REPORT, STATUS, FACILITY AND FLOOR SPACE UTILIZATION						ORGANIZATION RESPONSIBLE FOR DOCUMENT PREPARATION: Facilities		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: ☐ CONTROL ☐ ACTION ☐ REFERENCE ☒ INFORMATION						ORGANIZATION RESPONSIBLE FOR DOCUMENT STORAGE:		NO. OF COPIES: 25			
USE OF DOCUMENT: Source document for Resources Requirements/ Availability Report and a report of floor space utilization for Company-owned facilities.						ESTIMATED MANHOURS FOR SINGLE PREPARATION:		INFORMATION CUTOFF DATE OR MILESTONE:			
						ESTIMATED COST (\$) FOR SINGLE PREPARATION:		DATE DATA DUE TO USER:			
						FREQUENCY OF ISSUE: ☐ ANNUALLY ☐ SEMI-ANNUALLY ☐ QUARTERLY ☐ BI-MONTHLY ☐ MONTHLY ☐ SEMI-MONTHLY ☐ BI-WEEKLY ☐ WEEKLY ☒ OTHERWISE, AS SPECIFIED As required		PUBLICATION DATE: SDR		UPDATE (FREQUENCY OR MILESTONE): As required	
								ESTIMATED EXPIRATION DATE:			
INTERRELATIONSHIP WITH OTHER DATA REQUIREMENTS: FA-001, Drawing, Plant Layout FA-007, Plan, Facility MA-020, Report, Resources Requirements/Availability TE-001, Plan, Integrated Test											
CLASSIFICATION: ☐ SECRET ☐ CONFIDENTIAL ☐ SECRET RESTRICTED DATA ☐ CONFIDENTIAL RESTRICTED DATA ☒ UNCLASSIFIED						☐ GROUP 1 ☐ GROUP 2 ☐ GROUP 3 ☐ GROUP 4 ☐ PROPRIETARY ☐ PUBLIC DOMAIN ☐ SPECIAL HANDLING ☐ NASA DISCREET ☐ JPL DISCREET ☐ PROJECT DISCREET ☐ NOFORN					
FORM OF DATA: ☒ PRINTED DOCUMENT ☐ CHART ☐ DIAGRAM ☐ DRAWING ☐ FILM (STATIC OR MOTION) ☐ ILLUSTRATION ☐ MODEL ☐ RECORDING (TAPE OR DISC) ☐ COMPUTER CARD ☐ COMPUTER TAPE ☒ MICROFILM (W/OR W/O CARD) ☐ OTHER						KIND OF DATA: ☐ ABSTRACT ☐ BROCHURE ☐ BULLETIN ☐ CATALOG ☐ CONTRACT ☐ DIRECTIVE ☐ DISCLOSURE ☐ ENGINEERING CHANGE ORDER ☐ REQUEST FOR ENGINEERING CHANGE PROPOSAL ☐ ENGINEERING CHANGE PROPOSAL ☐ HANDBOOK ☐ INDEX ☐ INSTRUCTION ☐ LETTER ☐ LIST ☐ LOG ☐ MANUAL ☐ MEMORANDUM ☐ MINUTES ☐ PLAN ☐ PROCEDURE ☐ REGULATION ☒ REPORT ☐ SCHEDULE ☐ SPECIFICATION ☐ STANDARD ☐ VOUCHER					
REVIEWS AND/OR APPROVALS REQUIRED: (LIST IN ORDER OF SUBMITTAL)						REFERENCE DOCUMENTS: NASA Industrial Property Manual Government Property Manual NASA Procurement Regulations					
						APPLICABLE STANDARDS:					
SUBMIT FOR REVIEW TO: _____						SUBMIT FOR APPROVAL TO: _____					
BY _____						BY _____					
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Manager, Facilities											

VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

DRD NO.:

FA-009

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

OUTLINE OF CONTENTS:

The Facility Utilization Status Report will provide facilities status data and identification of problem areas which have a significant effect on Project progress and as such will provide source information for the Resource Requirements/Availability Report. The report shall include a comparison of requirements versus availability of facilities for the period covered, together with a projection of future requirements versus availability and a description of current and anticipated future problems with possible solutions defined for each.

The report shall highlight similar areas for principal and major subcontractors as appropriate.

In addition, the report shall contain area assignments for office, laboratory, shop, and functional space by organizational function and any changes during the current reporting period. Building layout drawings will be updated with each reassignment of space and will be the primary source document for this report.

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

GE EXHIBIT DRD FA-010

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.:	DRD NO.:
		FA			A. N. Reagan	7/28/67			FA-010
TITLE OF DOCUMENT: REPORT, ANALYSIS OF INDUSTRIAL FACILITIES AND MATERIAL					ORGANIZATION RESPONSIBLE FOR DOCUMENT PREPARATION:		TASK OR SUBTASK:		DRD ITEM NO.:
					Facilities				
					ORGANIZATION RESPONSIBLE FOR DOCUMENT REPRODUCTION:		DRL NO.:		LEVEL NO.:
TYPE OF DOCUMENT: ☐ CONTROL ☐ ACTION ☐ REFERENCE ☒ INFORMATION					ORGANIZATION RESPONSIBLE FOR DOCUMENT DISTRIBUTION:		DDL NO.:		FILE NO.:
USE OF DOCUMENT: Source document for MSD Property Office for required NASA Report Form 1018					ORGANIZATION RESPONSIBLE FOR DOCUMENT STOWAGE:		NO. OF COPIES:		
							25		
					ESTIMATED MANHOURS FOR SINGLE PREPARATION:		INFORMATION CUTOFF DATE OR MILESTONE:		
INTERRELATIONSHIP WITH OTHER DATA REQUIREMENTS: FA-004, List, Government Property					ESTIMATED COST (\$) FOR SINGLE PREPARATION:		DATE DATA DUE TO USER:		
					FREQUENCY OF ISSUE:		PUBLICATION DATE:		
					☐ ANNUALLY ☒ SEMI-ANNUALLY ☐ QUARTERLY ☐ BI-MONTHLY ☐ MONTHLY ☐ SEMI-MONTHLY ☐ BI-WEEKLY ☐ WEEKLY ☐ DAILY ☐ OTHERWISE, AS SPECIFIED		SDR UPDATE (FREQUENCY OR MILESTONE): Thru launch ESTIMATED EXPIRATION DATE:		
CLASSIFICATION: ☐ SECRET ☐ CONFIDENTIAL ☐ SECRET RESTRICTED DATA ☐ CONFIDENTIAL RESTRICTED DATA ☒ UNCLASSIFIED					☐ GROUP 1 ☐ GROUP 2 ☐ GROUP 3 ☐ GROUP 4 ☐ PROPRIETARY ☐ PUBLIC DOMAIN ☐ SPECIAL HANDLING ☐ NASA DISCREET ☐ JPL DISCREET ☐ PROJECT DISCREET ☐ NOFORN				
FORM OF DATA: ☒ PRINTED DOCUMENT ☐ CHART ☐ DIAGRAM ☐ DRAWING ☐ FILM (STATIC OR MOTION) ☐ ILLUSTRATION ☐ MODEL ☐ RECORDING (TAPE OR DISC) ☐ COMPUTER CARD ☐ COMPUTER TAPE ☐ MICROFILM (W/OR W/O CARD) ☐ OTHER _____					KIND OF DATA: ☐ ABSTRACT ☐ BROCHURE ☐ BULLETIN ☐ CATALOG ☐ CONTRACT ☐ DIRECTIVE ☐ DISCLOSURE ☐ ENGINEERING CHANGE ORDER ☐ REQUEST FOR ENGINEERING CHANGE PROPOSAL ☐ ENGINEERING CHANGE PROPOSAL ☐ HANDBOOK ☐ INDEX ☐ INSTRUCTION ☐ LETTER ☐ LIST ☐ LOG ☐ MANUAL ☐ MEMORANDUM ☐ MINUTES ☐ PLAN ☐ PROCEDURE ☐ REGULATION ☒ REPORT ☐ SCHEDULE ☐ SPECIFICATION ☐ STANDARD ☐ VOUCHER				
					REFERENCE DOCUMENTS: Government Property Manual NASA Procurement Regulations NASA Industrial Property Control Manual				
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 _____									
Manager, Facilities									

VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

DRD NO.:

FA-010

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

OUTLINE OF CONTENTS:

The report shall contain the required information to allow completion of NASA Form 1018 which includes the following:

1. Reporting period
2. Date of issue
3. Contract number and dollar value
4. Account title (land, buildings, other structures and facilities, leasehold improvements, plant equipment and material)
5. Value at start of reporting period for each account
6. Additions (GFE and contractor acquired) for each account
7. Disposals during period for each account
8. Value at end of reporting period for each account

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

GE EXHIBIT DRD FA-010

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION ANALYSIS OF INDUSTRIAL FACILITIES AND MATERIAL REPORT <i>(All amounts rounded to even dollars. See instructions for completing form on reverse.)</i>					<i>Budget Bureau No. 104-R029</i> <i>Approval Expires July 31, 1969</i>	
REPORTING PERIOD					DATE SUBMITTED	
TO: <i>(Enter name of NASA field installation and property administrator to whom report is submitted.)</i>						
FROM: <i>(Enter full name and address of contractor.)</i>						
1. CONTRACT NO. <i>(Enter complete contract symbol number.)</i>				2. CONTRACT VALUE		
				\$		
3. ACCOUNT TITLE	4. BALANCE BEGINNING OF PERIOD	5. ADDITIONS		6. DISPOSALS	7. BALANCE END OF PERIOD	
		a. GOVERNMENT- FURNISHED	b. CONTRACTOR- ACQUIRED			
A. LAND						
B. BUILDINGS						
C. OTHER STRUCTURES AND FACILITIES						
D. TOTAL REAL PROPERTY <i>(Total of Items a, b, and c)</i>						
E. LEASEHOLD IMPROVEMENTS						
F. PLANT EQUIPMENT						
G. TOTAL INDUSTRIAL FACILITIES <i>(Total of Items d, e, and f)</i>						
H. MATERIAL						
8. CERTIFICATION						
I CERTIFY that this report was prepared in accordance with NASA reporting requirements from records maintained in conformity with the NASA Industrial Property Control Manual.						
9. DATE	10. TYPED NAME AND TITLE OF AUTHORIZED OFFICIAL OF THE CONTRACTOR			11. SIGNATURE		

GE EXHIBIT DRD FA-012

VOYAGER DATA REQUIREMENT DESCRIPTION				DRD APPROVED BY:		DATE:	DATA CATEGORY:																																																		
ORGANIZATION ORIGINATING REQUIREMENT:	CODE: FA	OFFICE RESPONSIBLE FOR DRD:	CODE:	DRD PREPARED BY: A.N. Reagan	DATE: 7/28/67	CONTRACT NO.:	DRD NO.: FA-012																																																		
TITLE OF DOCUMENT: *REQUEST, FACILITIES PLANNING				ORGANIZATION RESPONSIBLE FOR DOCUMENT PREPARATION: Facilities		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: ☐ CONTROL ☒ ACTION ☐ REFERENCE ☐ INFORMATION																																																					
USE OF DOCUMENT: These requests are the initiating documents which start the sequence of events resulting in the completed office, laboratory, and shop facilities for the Voyager Project, including office furniture and business equipment.				ORGANIZATION RESPONSIBLE FOR DOCUMENT STOWAGE:		NO. OF COPIES: 2																																																			
				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: FA-001, Drawings, Plant Layout				FREQUENCY OF ISSUE: ☐ ANNUALLY ☐ SEMI-ANNUALLY ☐ QUARTERLY ☐ BI-MONTHLY ☐ MONTHLY ☐ SEMI-MONTHLY ☐ BI-WEEKLY ☐ WEEKLY ☐ DAILY ☒ OTHERWISE, AS SPECIFIED As required		PUBLICATION DATE: SDR																																																			
						UPDATE (FREQUENCY OR MILESTONE): As required																																																			
						ESTIMATED EXPIRATION DATE:																																																			
CLASSIFICATION: ☐ SECRET ☐ CONFIDENTIAL ☐ SECRET RESTRICTED DATA ☐ CONFIDENTIAL RESTRICTED DATA ☒ UNCLASSIFIED				☐ GROUP 1 ☐ GROUP 2 ☐ GROUP 3 ☐ GROUP 4 ☐ PROPRIETARY ☐ PUBLIC DOMAIN ☐ SPECIAL HANDLING ☐ NASA DISCREET ☐ JPL DISCREET ☐ PROJECT DISCREET ☐ NOFORN																																																					
FORM OF DATA: ☒ PRINTED DOCUMENT ☐ CHART ☐ DIAGRAM ☐ DRAWING ☐ FILM (STATIC OR MOTION) ☐ ILLUSTRATION ☐ MODEL ☐ RECORDING (TAPE OR DISC) ☐ COMPUTER CARD ☐ COMPUTER TAPE ☐ MICROFILM (W/OR W/O CARD) ☐ OTHER				KIND OF DATA: ☐ ABSTRACT ☐ BROCHURE ☐ BULLETIN ☐ CATALOG ☐ CONTRACT ☐ DIRECTIVE ☐ DISCLOSURE ☐ ENGINEERING CHANGE ORDER ☐ REQUEST FOR ENGINEERING CHANGE PROPOSAL ☐ ENGINEERING CHANGE PROPOSAL ☐ HANDBOOK ☐ INDEX ☒ INSTRUCTION ☐ LETTER ☐ LIST ☐ LOG ☐ MANUAL ☐ MEMORANDUM ☐ MINUTES ☐ PLAN ☐ PROCEDURE ☐ REGULATION ☐ REPORT ☐ SCHEDULE ☐ SPECIFICATION ☐ STANDARD ☐ VOUCHER																																																					
REVIEWS AND/OR APPROVALS REQUIRED: (LIST IN ORDER OF SUBMITTAL)				REFERENCE DOCUMENTS: Voyager Spacecraft Specifications Voyager Mission Specifications																																																					
				APPLICABLE STANDARDS:																																																					
<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;"></td> <td style="width:15%; text-align: center;">DRAFT</td> <td style="width:15%; text-align: center;">DATE</td> <td style="width:15%; text-align: center;">PREPUBLICATION PROOF</td> <td style="width:15%; text-align: center;">DATE</td> </tr> <tr> <td>SUBMIT FOR REVIEW TO:</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">BY</td> <td></td> <td style="text-align: center;">BY</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>SUBMIT FOR APPROVAL TO:</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">BY</td> <td></td> <td style="text-align: center;">BY</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>									DRAFT	DATE	PREPUBLICATION PROOF	DATE	SUBMIT FOR REVIEW TO:											BY		BY												SUBMIT FOR APPROVAL TO:											BY		BY						
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	BY		BY																																																						

VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

DRD NO.:
FA-012

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

OUTLINE OF CONTENTS:

1. The Office Facilities Planning Request shall include the following information, where applicable:
 - a. Kind of office facility work requested (new, expansion, rearrange)
 - b. Type of office space required (A, B, or C level, etc.)
 - c. Number of occupants
 - d. Requirement date
 - e. Special office requirements and other specific instructions
 - f. Reason for requirements
 - g. Requesting component
2. The Lab/Shop Facilities Planning Request shall include the following information, where applicable:
 - a. Kind of facility work requested (new, expansion, rearrangement)
 - b. Type of area (lab, shop, functional)
 - c. Size of area
 - d. Requirement date
 - e. Special environmental equipment required (class of clean room, temperature or humidity control, etc.)
 - f. Special design features (high bay, foundations, crane capacity and clearance, etc.)
 - g. Reason required and requesting component

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

GE EXHIBIT DRD FA-012

3. The Office Furniture and Business Equipment Request shall include the following information in accordance with GE Form 10776V as applicable:
 - a. Component requesting equipment
 - b. Charging instructions
 - c. Authorization
 - d. Description of equipment requested
 - e. Date required
 - f. Reason for requirements
 - g. Item to be replaced

ROF No. _____

A I P
FACILITIES PLANNING REQUEST
OFFICE

☐ NEW FACILITY; ☐ EXPANSION

SECTION _____

☐ REARRANGE EXISTING FACILITY

MANAGER _____

Date Required					
Type of Office					
PRIVATE	A LEVEL				
OFFICE	B LEVEL				
	C LEVEL				
DRAFTSMEN					
OTHER OFFICE PERSONNEL					
TOTAL					
SPECIAL OFFICE EQUIPMENT REQ'D.					

List A, B, C Level Personnel Included Above:

Other Special Instructions:

Reason Required:

Requested By _____ Date _____ Room No. _____ Ext. _____

Approved By _____ Date _____

RLF No. _____

A I P
FACILITIES PLANNING REQUEST

☐ LAB; ☐ SHOP; ☐ FUNCTIONAL

☐ NEW FACILITY; ☐ EXPANSION

☐ REARRANGE EXISTING FACILITY SECTION _____

MANAGER _____

Date Required				
Space Required				

Special Environmental Conditions Required: (Clean Room-Class, Humidity Control, Etc...)

Special Design-Construction Features (Headroom, Crane Capacity, Foundations, Etc...)

Reason Required:

Requested By _____ Date _____ Room No. _____ Ext. _____

Approved By _____ Date _____

**PLANT SERVICES ORDER FORM
REQUEST FOR OFFICE FURNITURE AND BUSINESS EQUIPMENT**

DO NOT FILL IN.

JOB NO.

INSTRUCTIONS - SUBMIT IN TRIPLICATE WITH COMPLETE NEED AND REASON FOR EACH ITEM REQUESTED.

NOTE - DO NOT INCLUDE FURNITURE AND BUSINESS EQUIPMENT ON SAME REQUEST.

DATE REC'D. BY OFF. SERV.	OPERATION				CHARGE NUMBER	DEPARTMENT
DATE ORD'D.	ORDERED BY				PHONE NUMBER	LOCATION
DATE AUTH.	AUTHORIZED BY *				PHONE NUMBER	LOCATION
DATE WANTED	DATE PROMISED	QTY.	ITEM	REQUIRED FOR		LOCATION

NEED AND REASON

INDICATE, IF APPLICABLE, ITEMS TO BE REPLACED (INCLUDE SERIAL NUMBERS)

SCREENING RECOMMENDATIONS

MATERIAL RECEIVED BY & DATE

* REQUIRED APPROVAL LEVEL TO BE IN ACCORDANCE WITH DEPARTMENT INSTRUCTIONS.
FORM 10776V (3-63)

GE EXHIBIT DRD FA-013

VOYAGER DATA REQUIREMENT DESCRIPTION				DRD APPROVED BY:		DATE:	DATA CATEGORY:		
ORGANIZATION ORIGINATING REQUIREMENT:	CODE: FA	OFFICE RESPONSIBLE FOR DRD:	CODE:	DRD PREPARED BY: A.N. Reagan	DATE: 7/28/67	CONTRACT NO.:	DRD NO.: FA-013		
TITLE OF DOCUMENT: SPECIFICATION, FACILITY REQUIREMENT				ORGANIZATION RESPONSIBLE FOR DOCUMENT PREPARATION: Facilities		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: 5			
TYPE OF DOCUMENT: ☒ CONTROL ☐ ACTION ☐ REFERENCE ☐ INFORMATION				ESTIMATED MANHOURS FOR SINGLE PREPARATION:		INFORMATION CUTOFF DATE OR MILESTONE:			
USE OF DOCUMENT: This document will detail the specific facility requirements requested by the functional group. It will then be used to prepare the facility design specifications.				ESTIMATED COST (\$) FOR SINGLE PREPARATION:		DATE DATA DUE TO USER:			
				FREQUENCY OF ISSUE: ☐ ANNUALLY ☐ SEMI-ANNUALLY ☐ QUARTERLY ☐ BI-MONTHLY ☐ MONTHLY ☐ SEMI-MONTHLY ☐ BI-WEEKLY ☐ WEEKLY ☐ DAILY ☒ OTHERWISE, AS SPECIFIED As required		PUBLICATION DATE: SDR			
						UPDATE (FREQUENCY OR MILESTONE): As required			
						ESTIMATED EXPIRATION DATE:			
INTERRELATIONSHIP WITH OTHER DATA REQUIREMENTS: FA-001, Drawings, Plant Layout FA-007, Plan, Facility FA-012, Request, Facilities Planning FA-015, Specification, Facility Design				CLASSIFICATION:					
				☐ SECRET ☐ CONFIDENTIAL ☐ SECRET RESTRICTED DATA ☐ CONFIDENTIAL RESTRICTED DATA ☒ UNCLASSIFIED		☐ GROUP 1 ☐ GROUP 2 ☐ GROUP 3 ☐ GROUP 4 ☐ PROPRIETARY ☐ PUBLIC DOMAIN			
FORM OF DATA: ☒ PRINTED DOCUMENT ☐ CHART ☐ DIAGRAM ☐ DRAWING ☐ FILM (STATIC OR MOTION) ☐ ILLUSTRATION ☐ MODEL ☐ RECORDING (TAPE OR DISC) ☐ COMPUTER CARD ☐ COMPUTER TAPE ☐ MICROFILM (W/OR W/O CARD) ☐ OTHER _____ _____ _____				KIND OF DATA: ☐ ABSTRACT ☐ BROCHURE ☐ BULLETIN ☐ CATALOG ☐ CONTRACT ☐ DIRECTIVE ☐ DISCLOSURE ☐ ENGINEERING CHANGE ORDER ☐ REQUEST FOR ENGINEERING CHANGE PROPOSAL ☐ ENGINEERING CHANGE PROPOSAL ☐ HANDBOOK ☐ INDEX ☐ INSTRUCTION ☐ LETTER ☐ LIST ☐ LOG ☐ MANUAL ☐ MEMORANDUM ☐ MINUTES ☐ PLAN ☐ PROCEDURE ☐ REGULATION ☐ REPORT ☐ SCHEDULE ☒ SPECIFICATION ☐ STANDARD ☐ VOUCHER				REFERENCE DOCUMENTS:	
								APPLICABLE STANDARDS: Building Codes - Electrical, etc.	
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 _____		_____			
Project Manager		_____		_____		_____			

VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

DRD NO.:
FA-013

SPECIAL INSTRUCTIONS:

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

OUTLINE OF CONTENTS:

This document will contain the detail specifications required by the architect or designer to draft the facility design specifications. It will utilize building code language and show details pertaining to size, type of facility, special requirements, etc.

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

GE EXHIBIT DRD FA-015

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.:	DRD NO.:
		FA			A.N. Reagan	7/28/67		FA-015
TITLE OF DOCUMENT: SPECIFICATION, FACILITY DESIGN					ORGANIZATION RESPONSIBLE FOR DOCUMENT PREPARATION:		TASK OR SUBTASK:	DRL ITEM NO.:
					Facilities			
					ORGANIZATION RESPONSIBLE FOR DOCUMENT REPRODUCTION:		DRL NO.:	LEVEL NO.:
					ORGANIZATION RESPONSIBLE FOR DOCUMENT DISTRIBUTION:		DDL NO.:	FILE NO.:
TYPE OF DOCUMENT: ☒ CONTROL ☐ ACTION ☐ REFERENCE ☐ INFORMATION					ORGANIZATION RESPONSIBLE FOR DOCUMENT STOWAGE:		NO. OF COPIES:	
USE OF DOCUMENT: These documents will be used for detail design and/or construction of facilities required for the Voyager 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: FA-012, Request, Facilities Planning					FREQUENCY OF ISSUE:		PUBLICATION DATE:	
					☐ ANNUALLY ☐ SEMI-ANNUALLY ☐ QUARTERLY ☐ BI-MONTHLY ☐ MONTHLY ☐ SEMI-MONTHLY ☐ BI-WEEKLY ☐ WEEKLY ☐ DAILY ☒ OTHERWISE, AS SPECIFIED As required		SDR	
							UPDATE (FREQUENCY OR MILESTONE): As required	
CLASSIFICATION:					ESTIMATED EXPIRATION DATE:			
☐ SECRET ☐ CONFIDENTIAL ☐ SECRET RESTRICTED DATA ☐ CONFIDENTIAL RESTRICTED DATA ☒ UNCLASSIFIED					☐ GROUP 1 ☐ GROUP 2 ☐ GROUP 3 ☐ GROUP 4 ☐ PROPRIETARY ☐ PUBLIC DOMAIN		☐ SPECIAL HANDLING ☐ NASA DISCREET ☐ JPL DISCREET ☐ PROJECT DISCREET ☐ NOFORN	
FORM OF DATA: KIND OF DATA:					REFERENCE DOCUMENTS:			
					Voyager Mission Specification Voyager Spacecraft Specification			
☒ PRINTED DOCUMENT ☐ ABSTRACT ☐ INSTRUCTION ☐ CHART ☐ BROCHURE ☐ LETTER ☐ DIAGRAM ☐ BULLETIN ☐ LIST ☒ DRAWING ☐ CATALOG ☐ LOG ☒ FILM (STATIC OR MOTION) ☐ CONTRACT ☐ MANUAL ☐ ILLUSTRATION ☐ DIRECTIVE ☐ MEMORANDUM ☐ MODEL ☐ DISCLOSURE ☐ MINUTES ☐ RECORDING (TAPE OR DISC) ☐ ENGINEERING CHANGE ORDER ☐ PLAN ☐ COMPUTER CARD ☐ REQUEST FOR ENGINEERING CHANGE PROPOSAL ☐ PROCEDURE ☐ COMPUTER TAPE ☐ ENGINEERING CHANGE PROPOSAL ☐ REGULATION ☐ MICROFILM (W/OR W/O CARD) ☐ HANDBOOK ☐ SCHEDULE ☐ OTHER ☐ INDEX ☒ SPECIFICATION _____ _____ _____					APPLICABLE STANDARDS:			
					REVIEWS AND/OR APPROVALS REQUIRED: (LIST IN ORDER OF SUBMITTAL)			
SUBMIT FOR REVIEW TO: _____								
BY _____								
SUBMIT FOR APPROVAL TO: _____								
BY _____								
Project Manager								

VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

DRD NO.:

FA-015

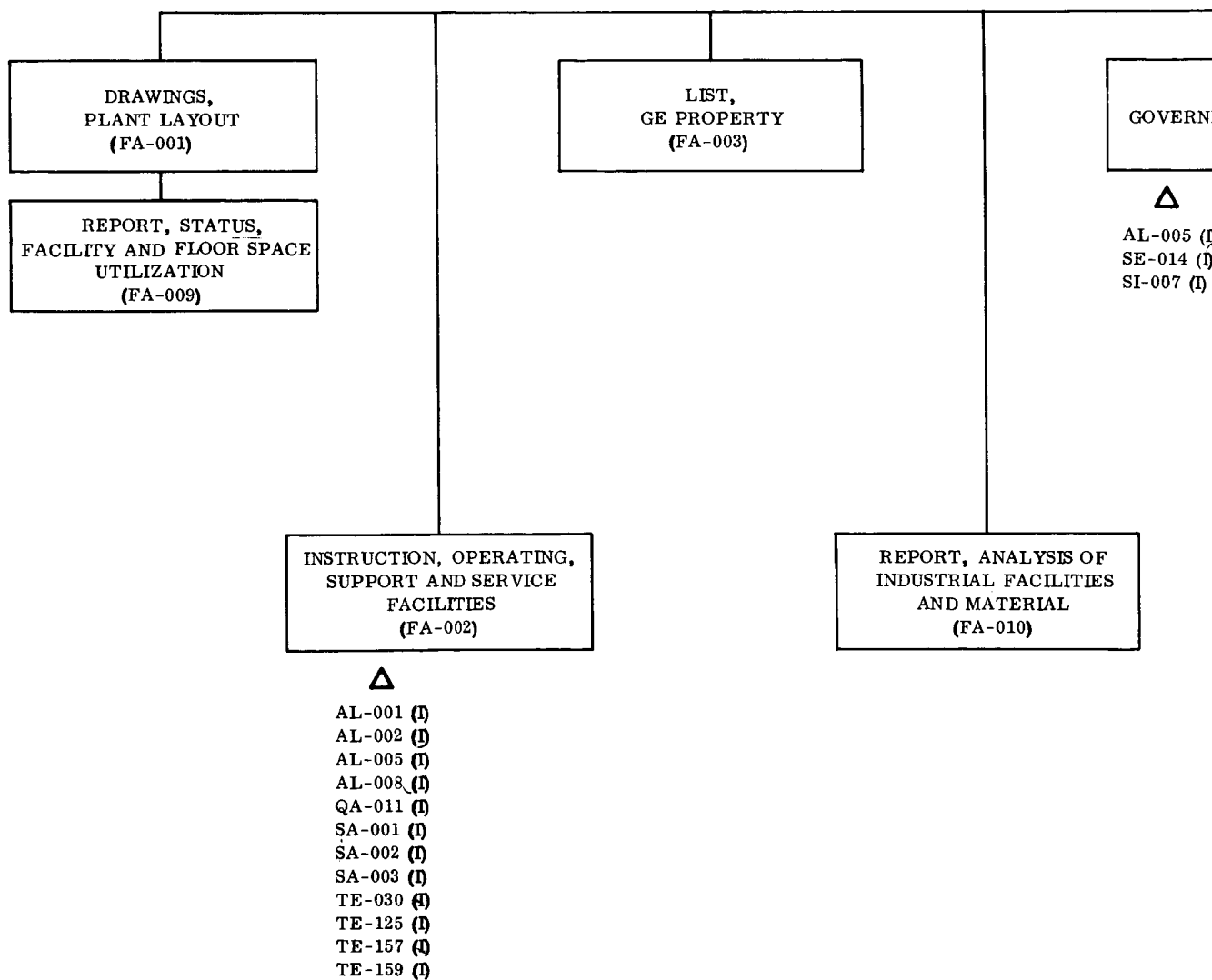
SPECIAL INSTRUCTIONS:

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

OUTLINE OF CONTENTS:

Includes the necessary and essential information required for the design and construction of the requested facility, such as: function to be performed, environmental conditions, size, clearance, accuracy or tolerances, frequency range, etc. References customer specifications where applicable.

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



DOCUMENTATION RELATIONSHIP TREES

A documentation relationship tree has been prepared to further develop the data base interrelationships by identifying and presenting pictorially the relationships of all Voyager contractor data items within each functional category and by showing their relationships across categories.

Relationships within the 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) 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 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 on, data items appearing in other categories and is included in the diagrams.

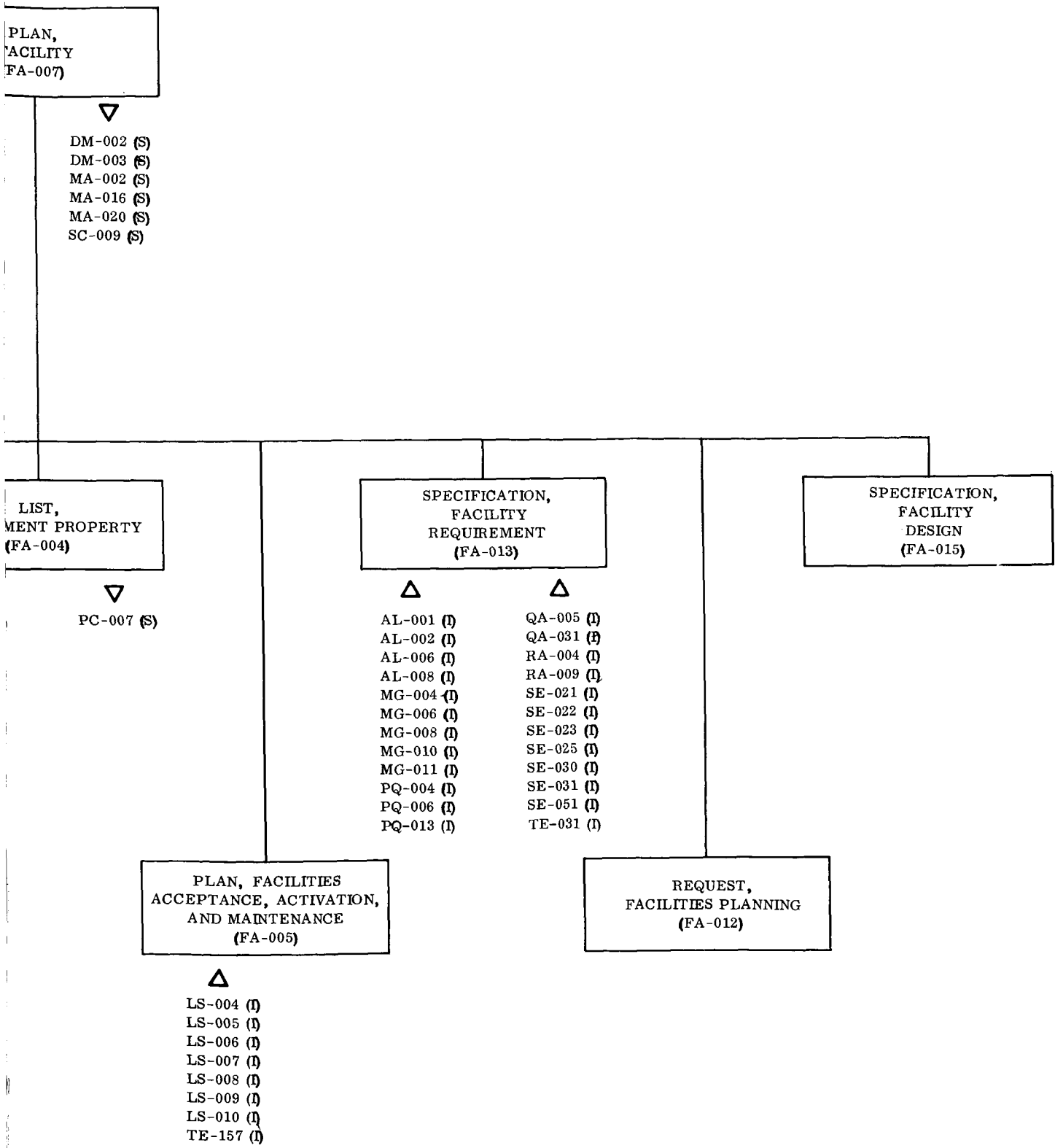


Figure L-2. Facilities Documentation Relationship Tree (FA)

DATA ITEM PHASING/FREQUENCY

The Data Item Frequency and Phasing chart shows the requirements for contractor data item preparation by major project review periods. It is concerned with the phasing and frequency of preparation of each individual data item and not the total number of copies required for reproduction and distribution.

The following legend and/or abbreviations have been used:

A	Annual	Q	Quarterly
S/A	Semiannual	I	Initial
WK	Weekly	F	Final
MO	Monthly	N/R	New and revised
B/W	Biweekly	SDR	System design review
B/M	Bimonthly	PDR	Preliminary design review
O/T	One time	HDR	Hard design review
A/R	As required	CDR	Critical design review
U	Update	FACI	First article configuration inspection
I/U	One update	MAR	Mission acceptance review
DA	Daily	J FACT	Joint flight acceptance composite testing

← 3.5 MO. →

[illegible]

