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FINAL REPORT

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GENERAL & ELECTRIC

VOLUME 5 DATA MANAGEMENT STUDY

APPENDIX K CONTRACTOR DATA PACKAGE DATA MANAGEMENT (DM)

PREPARED BY

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DATA MANAGEMENT Voyager Spacecraft System Project APPROVED BY

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



P.O. Box 8555 • Philadelphia, Penna. 19101

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INTRODUCTION

This appendix presents the Contractor Data Package (Data Item Matrix, Data Requirement Description, User Flow Diagram, Document Relationship Tree, and Frequency and Phasing Charts) for Data Management (DM).

These data relate to the overall management system for identifying, defining, reviewing, and controlling any data generated and/or used by Project elements.

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)

Advanced Missions (AM)

Appendix Q*

^{*} Appendixes L through Q prepared under Contract NAS 7-584

	1 of 3	
DATA ITEM Number	DATA ITEM DATA MANAGEMENT	DESCRIPTION
	LISTS	
DM - 001	*Index, Schedule and Status Document Management	Consolidates information from DRD's in AD: responsibility for key actions and the schedu
DM- 020	Index, Document Management Schedule and Status of Key Documents	Provides status against production mileston designated as Key by the Voyager System Of
DM- 002	Index, Formal Data Items	Provides automatic data processing (ADP) t project and contractor information search a
DM- 003	Index, Informal Data Items	An ADP tabulation of contractor-generated
DM- 004	Index, Special Purpose	ADP print-outs from data bank to meet spec
DM- 005	List, Contact Report	An automatic data processing print-out of a Provides summary information and enables
DM- 006	List, Document Distribution	An ADP print-out showing approved distributor each data item.
	2 CTATTERE C	
DM- 007	*Minutes, Data Review Board Meetings	A record of Contractor Data Review Board

^{*} KEY INFORMAL DATA

DATA ITEM LIST/USER MATRIX

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PAGE NO. 1 of 3

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DATA ITEM Number	DATA ITEM	DESCRIPTION
	DATA MANAGEMENT	
	PLANS	
DM- 008	Plan, Contractor Data Acquisition Flow	Shows relationship of data items to hardware and events on specialized user system flow
DM - 009	Plan, Data Management (Contractor)	Provides a summary of contractor's data macriteria and constraints governing identificatechnical and management data.
	PROCEDURES	
DM- 010	Procedure, Data Program Support	Defines criteria governing use of support se data management program. Describes data available and how to use them.
DM- 011	Procedure, Data Systems, Controls and Records	Defines criteria governing mechanization of processing systems. Provides a compendiu for such systems.
DM- 012	Procedure, Data Preparation, Submittal and Review	Defines criteria governing generation and accompendium of standards and procedures fo
DM 114	Procedure, Establishment of Data Requirement	Describes means by which requirements for defined. Provides catalog of representative to base such determination and definition.
DM - 024	Procedure, Data Program Training	Describes means for instructing contractor program as a management tool. Provides a training aids available for such instruction.
	RECORDS	
DM- 023	*Project Information Request/ Release	Used for project correspondence within the contractor's data bank. Functional top appr

DATA ITEM LIST/USER MATRIX

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	3 of 3	
DATA ITEM NUMBER	DATA MANAGEMENT	DESCRIPTION
	REPORTS	
DM- 015	Report, Cost Accumulation Formal Data	Report of formal data costs. A periodic reporagainst each DRD.
DM- 016	Report, Document Distribution Control	Automatic data processing printouts showing a data to authorized recipients, custodians, etc.
DM- 017	Report, Facility Capability and Loading Data Reproduction Processing and Dissemination	Describes contractor capabilities for producti (ADP) and dissemination of data. Also include facilities.
DM- 018	Report, Informal Data Audit	Reports audit activities of the data manager to production and cost of informal data.
DM- 019	Report, Specialized User System Description	Describes specialized user systems, including of data handled, equipment, etc.
	REQUESTS	
DM- 021	Distribution Change Request	Used to request changes to approved data distr
DM- 022	DRD Change Request	Used to expedite formal requests for changes

^{*} KEY INFORMAL DATA

DATA ITEM LIST/USER MATRIX

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USER FLOW DIAGRAMS

Data Management (DM) User Flow Diagrams have been incorporated in the Voyager Data Management System Summary Flow Diagram shown in Section 4 of the basic report (Volume 5).

Data Management Requirement Descriptions

DRD <u>Number</u>	Title
DM-001	*Index, Document Management Schedule and Status for Key Documents
DM-002	Index, Formal Data Items
DM-003	Index, Informal Data Items
DM-004	Index, Special Purpose
DM-005	List, Contact Report
DM-006	List, Document Distribution
DM-007	*Minutes, Data Review Board Meetings
DM-008	Plan, Contractor Data Acquisition Flow
DM-009	Plan, Data Management (Contractor)
DM-010	Procedure, Data Program Support
DM-011	Procedure, Data Systems, Controls and Records
DM-012	Procedure, Data Preperation, Submittal and Review
DM-015	Report, Cost Accumulation Formal Data
DM-016	Report, Document Distribution Control
DM-017	Report, Facility Capability and Loading Data Reproduction, Processing and Dissemination
DM-018	Report, Informal Data Audit
DM-019	Report, Specialized User System Description
DM-020	Index, Document Management Schedule and Status of Key Documents
DM-021	Distribution Change Request
DM-022	DRD Change Request
DM-023	*Project Information Request/Release
DM-024	Procedure, Data Program Training
DM-114	Procedure, Establishment of Data Requirements

^{*} Key Informal Data

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*Key Informal Data

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VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET	
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PECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)	
OUTLINE OF CONTENTS:	
1. The Document Management Schedule and Status Index is the master index for the document management schedule and measurements subsystem. It is maintained in tape and disc form (disc for activities scheduled to start within 1 year, tape for all other). Both are updated by punched cards as events are completed.	**
2. The Index contains the following information on each data item;	
a. Data item (DRD response) number (preassigned)	

c. Planned date of completion for each major activity

data processing, distribution, etc.

b.

d. Actual date of completion for each major activity.

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

Office (function) responsible for each major activity associated with satisfying

requirements of the DRD, i.e., preparation, production, reproduction, automatic

- 3. Each issue of the Index is in three sequences:
 - a. By Data Requirements List and DRL line number to enable determination of schedule and status for a specific document
 - b. By responsible organization to show the total load, specific data items, and milestones scheduled, completed, and overdue for each participating organization
 - c. By data item due date to show schedule and status of each data item against its planned issue date.

vo	VOYAGER DATA REQUIREMENT DESCRIPTION							D ATE :	DATA CATEGORY:
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VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

DRD NO.: ${
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A complete index shall be required each month. Supplements, showing additions and deletions, shall be issued weekly.

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

OUTLINE OF CONTENTS:

- 1. The Formal Data Items Index shall be divided into two parts, with each part applicably titled to correspond with the following:
 - Part I. Shall contain information applicable to those data items retained in the repository for which the organization is the project custodian.
 - Part II. Shall contain information applicable to those data items retained in the repository for which the organization is <u>not</u> the project custodian but is a user and/or DRD generator.
- 2. In addition to title and date of index issuance, each index shall contain the following information applicable to each data item in the repository.
 - a. DRD (response) number.
 - b. Data item title
 - c. Number of copies on hand
 - d. Data received by control library (repository)
 - e. Indication if reproducible master is on file
 - f. Date of primary reproduction if custodian
 - g. Date of secondary reproduction(s) if custodian
 - h. Number of copies reproduced (both primary and secondary) during current period and inception-to-date.

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

- i. From whom received and number of copies or masters
- j. Number of copies on loan
- k. Minimum essential quantities required on hand (before reorder is required)
- 1. Name (or ID number) of custodian if Part 2 type data item
- m. Number of copies distributed during current period and inception-to-date
- n. Cross-indexing number if different from DRD (response) number.
- 3. Each part shall be divided into two subparts, with each subpart being identical in form, format and content. Each subpart shall, however, be in different sequences as following:
 - Subpart 1 Shall be sequenced in accordance with DRD number.
 - Subpart 2 Shall be alphabetically sequenced by data item title in accordance with the key word in context (KWIC) method.

				DRD APPROVED BY	γ:	DATE:	DATA CATEGORY:
VOYAGER D	ATA REQUIREMENT DESCRIPTION						CATEGORY.
OPCANIZATION OPICINIATING CO	DE: OFFICE RESPONSIBLE FOR	DBD: CODE:	DRD PREPA	DED BY:	DATE:	CONTRACT	DRD NO.:
DECHIDEMENT	DM	DRD. CODE.	R. T		7/28/67	NO.:	DM-003
TITLE OF DOCUMENT:				ORGANIZATION REFOR DOCUMENT P	REPARATION:	TASK OR SUBTASK:	DRL ITEM NO.:
INDEX INF	ODMAT DATA TTEM	C		Data Manage		<u> </u>	
INDEX, IN F	ORMAL DATA ITEM	8		ORGANIZATION R FOR DOCUMENT R		DRL NO.:	LEVEL NO.
				ORGANIZATION R		DDL NO.:	FILE NO.:
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PAGE I OF 2

JPL 2568 ℃T 65

	VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET	
SPECIAL INS	TRUCTIONS:	DRD NO.: DM-003
SPECIAL DIS	TRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)	
OUTLINE OF		
	Informal Data Items Index shall contain the following information pertinent to ermal data item:	eacn
a.	Data item identification number, if applicable.	
b.	Title	
c.	Identification of issuer.	
d.	Identification of recipient(s).	
e.	Date of issuance.	
f.	Data received by control library.	
g.	Number of copies on hand (in control library).	
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(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

VOYAGER DA	TA REQUIREMENT DESCRIPTION			DRD APPROVED BY		DATE:	DATA CATEGORY:
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DN	Л		R. To	ff	7/28/67		DM-004
TITLE OF DOCUMENT:				ORGANIZATION RE		TASK OR	DRL ITEM
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INDEX, SP	ECIAL PURPOSE			FOR DOCUMENT RE		DRL NO.:	LEVEL NO.
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				ORGANIZATION RE		DDL NO.:	FILE NO.
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DM-004
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OUTLINE OF CONTENTS:
1. The Special Purpose Index shall present the following information for each data item in the
special request group:
a. Title.
b. Date of issue.
c. Date of latest revision.
d. Retrieval number.
e. Other information requested by user (if available and retrievable from Voyager
Data Bank).

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

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0.07	C CONTENTS:	
1. The	F CONTENTS: Contact Report List shall provide the following information applicable to each or report:	contact
a.	Contact report number	
b.	Contactee.	
c.	Contactor.	
d.	Date of contact	
е.	Method of contact.	
f.	Location.	
g.	Attendees (name and/or organization represented).	
h.	Subject.	

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

VOYAGER DATA REQUIREMENT DESCRIPTION					DRD APPROVED BY	DATE:	DATA CATEGORY:		
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DM-012, Proced Review		Preparation,	Submi	ttal a	and	☐ ANNUALLY ☐ SEMI-ANNUAL ☐ QUARTERLY	SDR		
DM-022, Reques	t, DRL/DI	RD Change				BI BI-MONTHLY C	complete	OR MILESTONE):	
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PAGE I OF 2

JPL 2568 OCT 65

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VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET	,
SPECIAL INSTRUCTIONS:	DRD NO.: DM-006
Complete distribution list shall be provided bi-monthly. Weekly supplements shall be issued to reflect changes, additions and/or deletions only.	
	·
SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)	
OUTLINE OF CONTENTS:	
1. Each Document Distribution List (total and supplemental) shall contain the following information:	ıg
a. Title line containing the document title (i.e., distribution list - total or supple custodian identification, and issue date.	emental),
b. Each line item shall apply to a data item (DRD response) and shall contain the following information:	
(1) DRD (response) number	
 (2) Data item title (3) Identification of project elements (including custodian stock-pile) to recein and quantity. 	ve copies
(4) Form in which project element is to receive copies (i.e., reproducible,	copies,

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

microform, etc.)

(5) Date or frequency of distribution.

(6) Responsible for reproduction, project element.

			DRD APPROVED BY	DATE:	DATA CATEGORY:	
VOYAGER DATA	REQUIREMENT DESCRIPTION			ļ		
	OFFICE RESPONSIBLE FOR DRD	CODE: DRD PREP	ARED BY:	DATE:	CONTRACT	DRD NO.:
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TITLE OF DOCUMENT:		 	ORGANIZATION RE	SPONSIBLE	TASK OR	DRL ITEM
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	rson and organiza	tion respon	sible			
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OUTLINE OF CONTENTS:

- 1. The Contractor Data Acquisition Flow Plan shall contain the following information:
 - a. Specialized user system flow diagrams which show the data outputs of and inputs to those hardware and software functions performed by each specialized user.
 - b. Narrative description of each specialized user system flow diagram.
 - c. Summary matrix which provides a tabular description of each flow diagram and shows all inputs and outputs of each specialized user data/information, use of such data, etc.

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The Contractor Data Management Plan must prescribe, in detail, the organizations, systand procedures which best ensure compliance with the requirements of the Voyager Proposta Management Plan. Outline of plan content is as follows:	
 Introduction (Rationale behind and overview of program and concept). Scope and applicability (What and whom the program covers and how). General policies and procedures (Data management as a management discipline a project requirement, as well as interface considerations.) 	and as

- 4. Organization of program elements (General organization at all levels, details of interfaces among organizations, and general delineation of responsibilities and authorities.)
- 5. Program administration (Details of administrative criteria and constraints, detailed delineation of responsibilities and authorities, and specification of mandatory data management techniques to be used.)
- 6. Program implementation (Details of operational critieria and constraints, allocation of assignments, detailed delineation of responsibilities and authorities, specification of monitoring and reporting requirements, and data PERT and cost accounting.)

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

- 7. Appendixes
 - a. Organizations
 - b. Administrative procedures
 - c. Forms

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1.	Introduction (Rationale behind procedure and how to use it. Relationship with other procedures).
2.	Scope and applicability (What the procedure covers and who is to use it when).
3.	General policies and procedures (Maximum use of existing personnel, equipment, and facilities, cost and time tradeoffs).
4.	Designation of support organizations (Authorities and responsibilities).
5.	Use of support services (Overall procedures, accounting, and reporting).
6.	Appendixes: a. Capability register

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b. Proceduresc. Forms

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2.	Scope and applicability (What the procedure covers and who is to use it when).
3.	General policies and procedures (Considerations affecting the selection and application of the various systems, controls, and records to be used for management of Voyager data; procedural criteria and constraints).
4.	Information flow systems (Analytical considerations of system development; interface

- 4. Information flow systems (Analytical considerations of system development; interface aspects; loading cycles; procedural controls).
- 5. Data transfer systems (Analytical considerations of system development; interface aspects; loading cycles; procedural controls).
- 6. Data accounting systems (Derivation of accounting and indexing schemes; input/output mechanisms; procedural controls; record-keeping requirements).
- 7. Appendixes:
 - a. Procedures
 - b. Flow diagrams
 - c. Indexes
 - d. Equipment specifications
 - e. Forms

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2.	procedures). Scope and applicability (What the procedure covers and who is to use it when.)
3.	General policies and procedures (Application of standards; criteria and constraints
	affecting preparation and production, selection and designation of submittal channels,
4.	reviewing authorities, etc.) Preparation of data (Use of standards, procedures for allocation and review of work;
7.	quality and cost controls.)
5.	Submittal of data (Delineation of submittal chains and procedures at various levels and
6.	in various organizations; means and mechanisms to be used for submittal.)
".	Review of data (Review criteria; technical review considerations; review cycles; procedures for inspection and acceptance; delineation of responsibilities and
	authorities.)
7.	Appendixes: a. Standards
	b. Procedures
	c. Forms

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VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET
SPECIAL INSTRUCTIONS: DRD NO.: DM-015
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OUTLINE OF CONTENTS:
The Formal Data Cost Accumulation Report shall provide the following information concerning each line item DRD:
1. Name and Federal Supply Code for Manufacturers (FSCM) of company making report
2. Date of report.
3. DRD number.
4. Title of document form DRD.
 Cost for each of the following activities for the period being reported: Generation
b. Production
c. Reproduction
d. ADP

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

7. Number of data items issued in response to each DRD.8. Average cost for each DRD response (i.e., data item).

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Distribution Storage

6. Total cost to date for each DRD.

VOYAGER DATA REQUIREMENT DESCRIPTION						DRD APPROVED E	IY.	DATE:	DATA CATEGORY.
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VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

DRD NO.: DM-016

Data items to be included on this report to be selected by customer and contractor.

Report may take the form of automatic data processing printouts.

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

OUTLINE OF CONTENTS:

The Document Distribution Control Report includes the following information:

- 1. Name of company and Federal Supply Code for Manufacturers (FSCM) making report.
- 2. Date of report.
- 3. Identification number(s) and title of data items.
- 4. Name and FSCM of originator.
- 5. Date of transmittal.
- 6. Name, function, and address of recipient(s).
- 7. Date of receipt.

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GE EXHIBIT DRD DM-017 VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET DRD NO.: SPECIAL INSTRUCTIONS: DM-017 SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW) OUTLINE OF CONTENTS: Part 1 of the Report shall contain the estimated capability of the contractor data handling facilities available to the Voyager Project, for the production, reproduction, processing (automatic data processing), and dissemination of formal data. Part 2 shall contain the actual loading for the past month and the predicted loading for the next 6 months of the facilities included in Part 1. This part shall also contain an estimate of the excess capacity available to the Project for the assignment of

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

additional Voyager data reproduction work.

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SPECIAL INSTRUCTIONS:	DRD NO.: DM-01
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OUTLINE OF CONTENTS:	
The Informal Data Audit Report shall contain the follow	wing information:
1. Company name and Federal Supply Code for I	Manufacturers (FSCM) making report.
2. Date of report.	
3. Number of informal data items produced per	month.

- 4. Number of pages of informal data items submitted to reproduction per month.
- 5. Number of page copies reproduced per month.
- 6. Kind of reproduction and number of page copies of each.
- 7. Total cost of producing all informal data per month.
- 8. Total cost of reproducing all informal data per month.
- 9. Comparison of current month with the previous two monthly reports.
- 10. Reasons, if warranted, for load increase or decrease.

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VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

SPECIAL INSTRUCTIONS:

DRD NO.:

DM-019

A separate report shall be prepared for each specialized user system employed by the contractor. Operating elements common to more than one system need be described in one report only and referenced in the others.

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

OUTLINE OF CONTENTS:

The Report shall contain the following information:

- 1. Summary statement of overall system requirements
- 2. Description of system design, including data flow diagrams, functions performed, and input/output capabilities (volume, speed, etc.)
- 3. Input processing, including edit checks, keypunch instructions, conversion (automatic data processing media) instructions, electronic accounting machine (EAM) functions
- 4. Computer operating instructions
- 5. Computer program listing(s), including adequate process description and flow diagrams
- 6. Peripheral equipment operating instructions
- 7. Remote interrogation instructions (for user)
- 8. Special instructions (handling, operating or use)

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1.	Data item (DRD response) number (preassigned)
2.	Office (function) responsible for each task and subtask associated with satisfying requirements of the DRD, i.e., preparation, production, reproduction, distribution, automatic data processing, etc.
3.	Planned date of completion for each task and subtask
4.	Actual date of completion for each task and subtask

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OUTLINE OF CONTENTS: The Distribution Change Request shall contain the following information:
1. Company name and Federal Supply Code for Manufacturers (FSCM) of requestor.
2. Requestor's name and function.
3. Identification number of data item(s) for which a distribution change is requested.
4. Reason for request.
5. Current recipient's name and address.
6. New or changed recipient name and address.
7. Date of request.

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OUTLINE OF CONTENTS:	
The DRD Change Request shall contain the following information:	
1. Company name and Federal Supply Code for Manufacturers (FSCM) making re	quest.
2. Requestor's name and function.	
3. Date of request.	
4. Identification number of DRD and/or DRL as applicable.	
5. Description and reason for requested change.	

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1.	Introduction (Rationale behind procedure and how to use is. Relationship with other procedures).
2.	Scope and applicability (What the procedure covers and who is to use it when).
3.	General policies and procedures (Criteria and constraints retraining: kinds of training, training cycles, etc.)
4.	Training programs (Separated out for data management personnel and users at various organizations and levels).
5.	Appendixes:
	(1) Visual aids (2) Bibliography of training documents

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2. Scope and applicability (What the volume covers and who is to use	e it when.)				
3. General policies and procedures (Minimum essential data; catego	orization of data by				
functional management areas and by organizational levels and int versus responses concept; vertical and horizontal relationships a	and traceability.)				
4. Determination of requirements (Use of Voyager Data List; proce reviews of parent documents and contracts; analyses of community					
5. Definition of requirements (Use of Voyager Data Catalog; specifi					
channels; determination of contents; preparation of DRD's.) 6. Validation of requirements (Screening of data packages; approval	chains: organization				

7. Imposition of requirements (Use of DRL's contract and noncontract; roles of DRD originators, data management organizations, contract administrators, responders, reviewers, accepters.)

8. Changes to requirements (Change procedures and cycles)

and functions of data review boards.)

- 9. Appendixes
 - a. Voyager Data List
 - b. Voyager Data Catalog
 - c. Forms

DOCUMENTATION RELATIONSHIP TREES

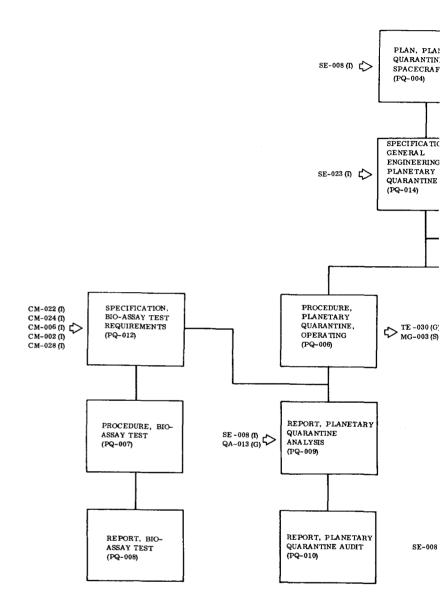
A documentation relationship tree has been prepared to show the relationship of data items within this functional category as well as their relationships across categories.

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.



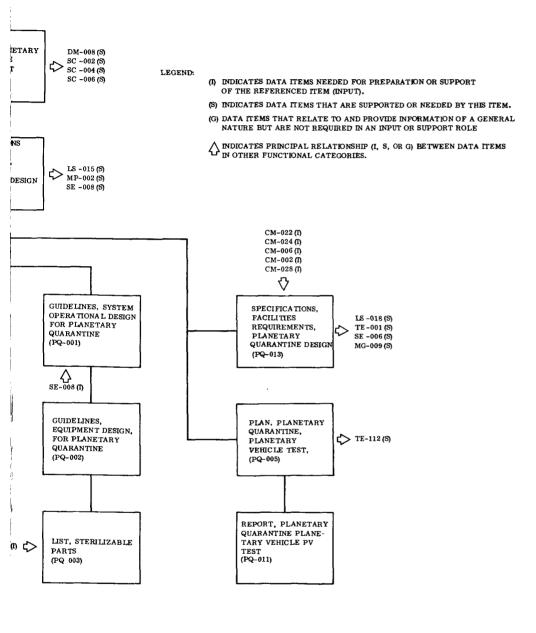


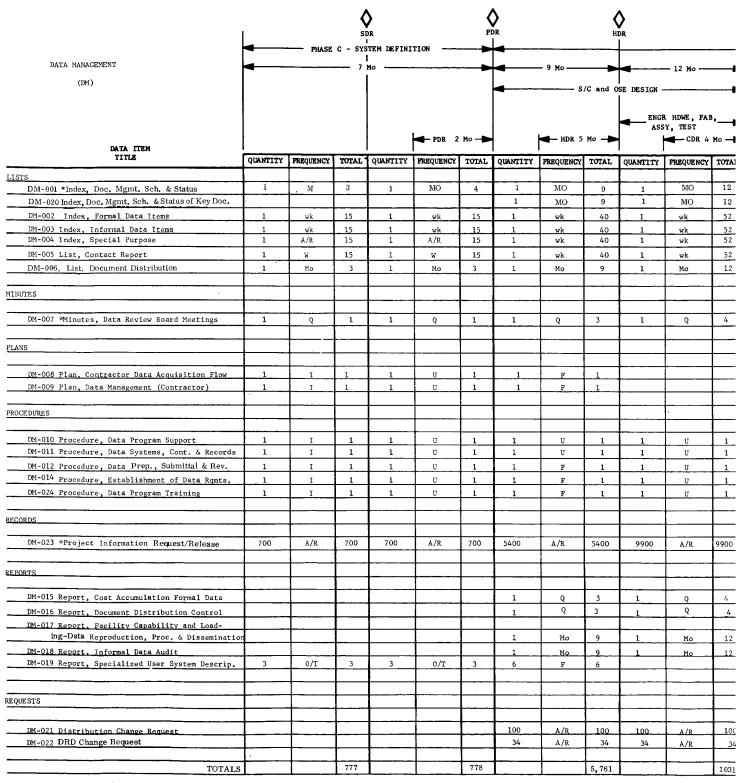
Figure B-1. Planetary Quarantine Documentation Relationship Tree (PQ)

DATA ITEM PHASING/FREQUENCY

Frequency and phasing of data item requirements for control and administration of the Data Management function are shown in Figure K-2, Data Management Data Item Phasing and Frequency Matrix.

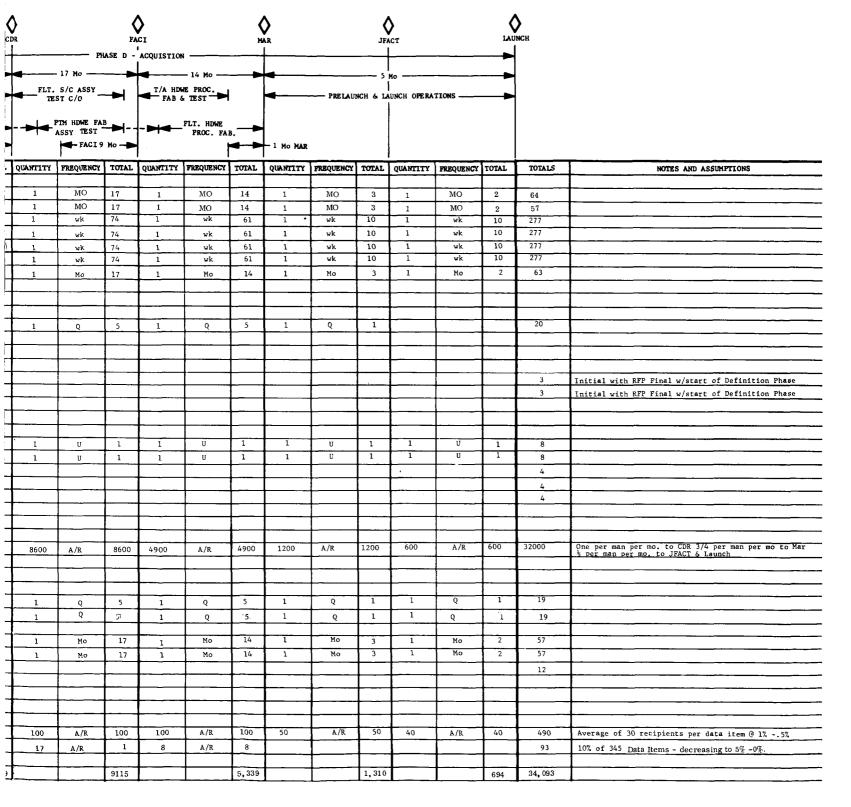
Estimates are based on the Data Item List, 15 December 1966, and a Task "C" start date of 1 April 1968.

Distribution and density of data item preparation requirements are shown in Figure K-3, Data Management Data Item Density Profile. The effect of DM-023, Project Information Request Release (key informal data item) is of particular interest.



*Key Informal Data

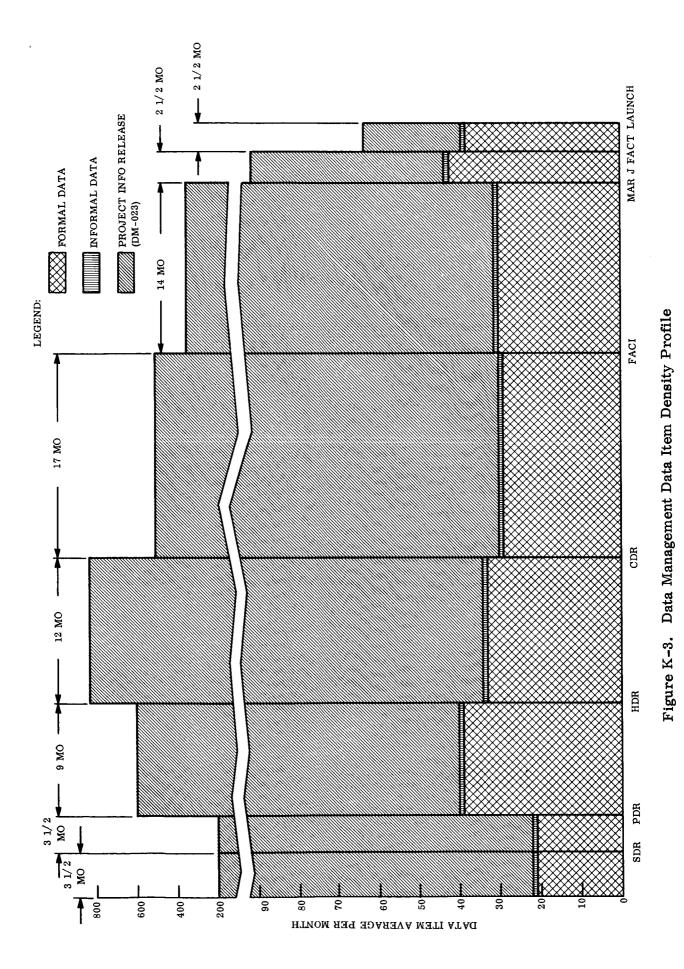
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Figure K-2. Data Management Data Item
Phasing and Frequency Matrix

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