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#### THE WORK REQUEST SYSTEM

#### A NASA Q1 PACKAGE

November 15, 1979

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#### I. OVERVIEW

#### THE WORK REQUEST SYSTEM A NASA Q1 PACKAGE

The agency has available a computer package for tracking work requests and purchase orders (or contracts). The package runs on the Ql equipment already installed at every center.

The system can be used to track any type of work which is controlled on the basis of work requests and purchase orders/contracts. It can handle about 1,200 work requests per year. At Goddard, where the system was developed, the Facilities Engineering Division uses it primarily to track work that goes to their unit price contractor. The value of the work requests ranges from a few dollars to upwards of \$100,000.

#### Milestones tracked include:

- . Date of the work request
- . Date the work request was received
- . Date sent to be designed
- . Date assigned to an engineer
- . Estimated date from design
- . Actual date received from design
- . Dates to and from Accounting (for verification of funds)
- . Dates to and from Procurement
- . Date of purchase order or contract
- . Construction start and end dates.

In addition to these schedule milestones, the system records various identification data, such as:

- . The requestor
- . The work request number and a description of the work
- . The purchase request number
- . The purchase order or contract number
- . The name of the contractor.

#### The system also records certain cost data:

- . The original estimate for the job
- . The purchase request amount
- . The contract or purchase order amount
- . The amount invoiced
- . The amount paid.

#### 1. WHAT THE SYSTEM AS A WHOLE DOES

- . It tracks the status of every work request and purchase order
- . It provides summary and performance reports for management. For instance, the Ql will show the average time spent in design or in Procurement, as well as trends. Are things getting better or are they getting worse?
- The work request system makes good management discipline easier. People at all levels support the system because it gives each of them something that he needs.

#### 2. STATUS TRACKING

Tracking work requests and purchase orders gives several advantages:

- Nothing Gets Lost -- not in design, not in procurement, not waiting for matierials, not anywhere. You don't have to answer any more embarrassing questions about that 3-month old job for \$1,500 that was last seen the day it got logged into your department.
- You Can Answer Status Queries -- both for your customers and for yourself. As one division head at Goddard remarked after they put in this system, "You guys never used to tell us anything; now we know what's happening on our jobs."

In addition, customers will call less often if they receive status reports, if their questions are answered the first time, and if their jobs appear to be under control.

Everyone Has a Checklist of His Jobs. At Goddard, the Ql gives every engineer in the Facilities Engineering Division a list of his jobs showing what they are, when they're due, and so on. These lists have been tremendously valuable to the engineers, which is why the engineers support the system and help to keep it current.

The supervisors get similar lists. Every second week when the Ql printouts come out, every engineer will sit down with his supervisor and go over the jobs for which he is responsible. This joint review can be as short or as long as necessary, but it provides a mechanism where:

- . Forgotten jobs get remembered
- . Problems are surfaced
- . Delays of all kinds are noticed
- . Both supervisor and engineer understand their priorities and the work to be done next.

#### 3. SUMMARY AND PERFORMANCE INFORMATION

It is important that somebody be on top of each job, but a department head needs <u>summary</u> information. He can also use <u>performance</u> information if he can get it. The work request system provides both.

#### 1) Summary Information

Figure 1 shows a typical summary report. It shows the number of jobs that have been designed but have not yet been put on a purchase order or contract. As a manager, you may be interested in knowing that more than a quarter of your jobs have been in Procurement for more than 30 days.

#### 2) Performance Information

Figure 2 shows a trend chart that Goddard updates every month based on data points produced by the Ql. This chart shows the average length of time that jobs spend in design, month by month, last year and this year. Similar trend charts are available for:

Overall processing time -- from when the work request arrives to when the job is done.

- Time required for a work request to reach the facilities department. (Date of receipt less date of the work request.) If this time starts to increase, then:
- -- The facilities department will know that there is a problem
- --The department will have the evidence with which to convince other people that there's a problem (and that it isn't within the facilities department).

#### 4. GOOD MANAGEMENT MADE EASY

As noted, the work request system offers three advantages:

- . Status tracking
- . Summary and performance information for management
- . Good management procedures.

Obviously it is people, not computers, that make good management. But having a work request system such as this one makes good management discipline easier.

- . First, there is a place for everything, so people tend to be more organized. For instance, everyone is in agreement on what constitutes "completion of a work request".
- Second, things never get too far out of hand.

  Jobs do not get lost; deadlines do not sneak up on you; delays are spotted early. In other words, the computer helps you stay organized so that you are not forever having to get organized.
- Most importantly, with the Ql everybody gets rewarded for good management discipline. There's something in it for everybody. The project engineers get up-to-date lists of their jobs and when they're due. This makes the project engineers happy. Management gets performance information and early warning on problems. Overall, the department looks good because it can answer its customers' questions.

Experience has shown that every computer system must reward the people who feed it. If the benefits all go one way -- if the people who must supply the inputs get nothing from the system -- then the system sill work only grudgingly. The work order system was designed with this lesson in mind. It works because everybody benefits.

#### 5. THE WORK REQUEST SYSTEM IS FULLY DEVELOPED AND AVAILABLE

- This work request system was one of the first Q1 applications in NASA. It has been up and running at Goddard since July of 1978. It is fully developed.
- . The people at Goddard are very pleased with it.
- . It will run on any NASA Ql, using floppy disks only. No new equipment is needed.
- Some program changes will have to be made to suit your needs -- all the reports for instance, say "Goddard Space Flight Center". Further, if the set of milestones which the system tracks does not correspond to the milestones at your center, then program adjustments will have to be made.

If the work request system interests you, you should get in touch with Jim Weir at NASA Headquarters, extension 5-3285.

#### FIGURE 1

Sample Summary Report

### WORK REQUEST SYSTEM · FACILITIES ENGINEERING DIVISION SUMMARY OF PR'S ISSUED BUT NO DO OR PO AWARDED

PROGRAM WRSMR2 DATE 04/06/79

AGE IN DAYS	# PR"S
0-30 31-60 61-90	52 6 9
91-120 > 120	9 2 3
TOTAL	72
\$ > 30 DAYS	27

Sample Trend Chart

	<u> </u>	.			SEPT	2.20	
10174					AUG	44.5	
Accomocation		·			AMEX	46.5	26,3
Acce	<u> </u>				JUNE	44.3	16,1
HALION					MNY	57.7	26.3
M					лРп	58.1	7.92
75					MAR	61.1	78.8
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#### II. DETAILS OF THE WORK REQUEST SYSTEM

This section presents the details of the computer system and of the management practices which it supports.

#### 1. WHAT THE SYSTEM TRACKS

#### 1) The Kinds of Jobs

The work request system can track any kind of job as long as the work is controlled by a work request or some similar piece of paper that is one-for-one with the job. If you subdivide your jobs into work packages, the system will be a poor fit for you. It will treat each of the work packages as a separate job, and subtotals at the job level will not be available. In other words, the system assumes a flat arrangement of jobs, not a hierarchical one.

Goddard uses the system to track those jobs which are assigned to its unit price contractor, the J.H. Lawrence Co. The jobs range from a few dollars to many thousands. Goddard tracks CoF projects with the FPDS system, not with this work request system, unless a CoF project or portion thereof is accomplished thorugh the unit price contractor.

The pieces of paper that are tracked include:

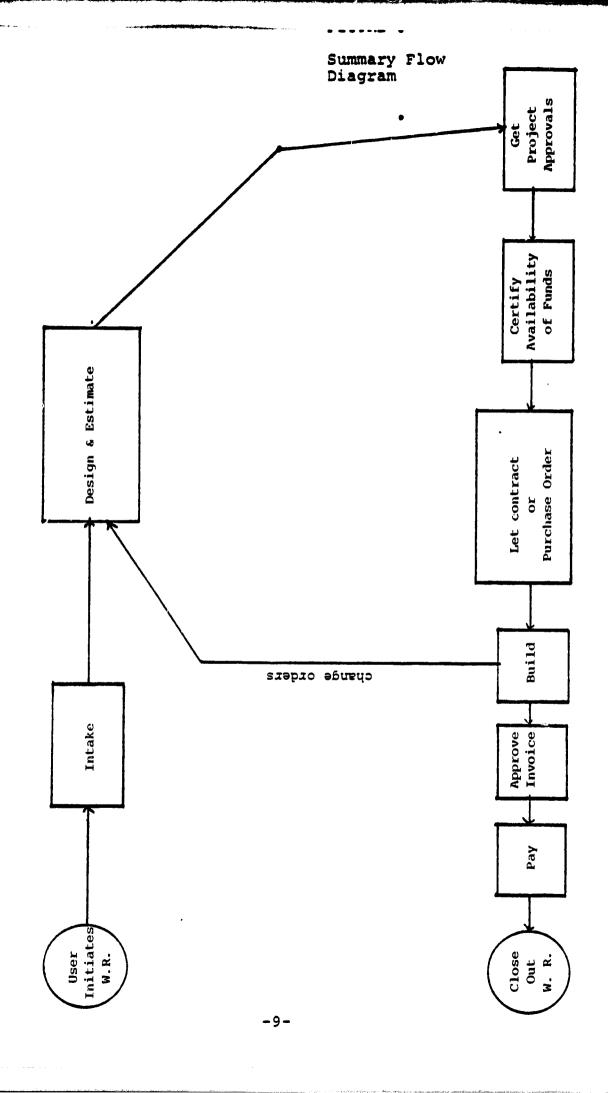
- . Work requests
- . Associated procurement requests
- . Associated delivery orders to the unit price contractor (or separate purchase orders)
- . Associated final invoices.

#### 2) The Milestones that Are Tracked

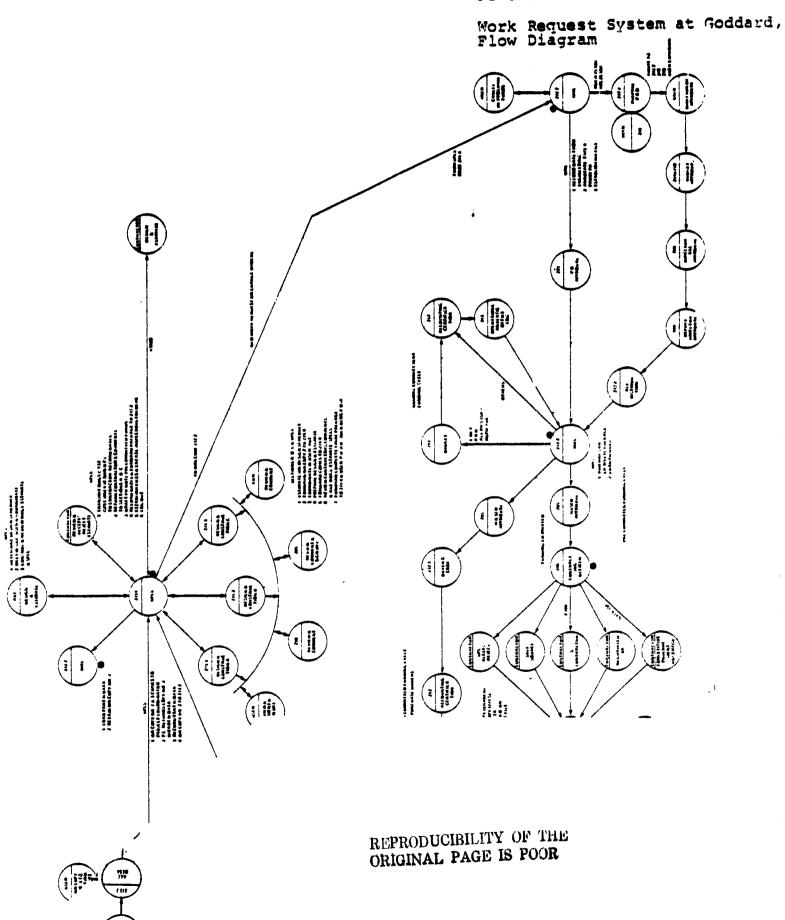
Figure 3 shows the flow of work for which the system was designed. Figure 4 shows the same flow in more detail. This flow -- Goddard's management system -- dictated the milestones and the data to be collected.

The system can be easily adapted to track different or fewer events. If you need to increase the number of events tracked, then the reprogramming costs rise considerably. However, the system already tracks an extensive set of events.

WORK REQUEST SYSTEM AT GODDARD SUMMARY FLOW DIAGRAM



1.45



-2

#### 3) The Data Collected

Figure 5 shows the full set of data that the system collects on each work request. Most of these items are optional. For instance, if reports concerning the dates to and from accounting are not desired, then those dates need not be entered.

Note these design features regarding the data collected:

- . Milestone Data Are Featured. Milestone data are the heart of the system -- the dates when the work request passed various points in its life.
  - Selected Financial Data Are Collected. The system tracks five costs:
  - -- The original estimated cost
  - -- The purchase request amount
  - -- The contract (purchase order or delivery order) amount
  - -- The amount invoiced
  - -- The amount paid

Space is also provided for the cost account category (called the "job order number" at Goddard), the fund source and the fund year.

Goddard uses these financial entries as an unofficial but quick reference as to the cost of jobs. The system uses the information to categorize the jobs by cost in various reports.

Manhour Data Are Not Collected. The system does not concern itself with manhours, either estimated or actual. While such data could be collected in place of some other data element, the system provides no facility to add up and display these hours in the ways which are usually desired.

Furthermore, manhour information (such as total shop backlog) usually requires that <u>all</u> work in the organization be in the system. Work requests usually represent only part of the workload. Thus, if a program to track manhours is desired, the work request system is probably not a good choice.

	full lected	FIGURE 5  Data Collected by the System
PROGRAS: WRSPRI	This printout shows the full set of data which is collected on each work request.	
	NOTE:	
M - WORK REQUEST DATA SHEET D6/04/79	4402 950 7608 04/22/76 INSTL POWER WATER DR 019 002 WAB 05/04/77 03/04/77 03/04/77 03/04/77 03/04/77	1MS 950-992-54-01-01 71 \$8,334.27 05/13/77 05/13/77 05/20/77 09/26/78 2596 09/28/78 \$4,924.33 10/23/78 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
FACILITIES ENGINEERING DIVISION - WORK REQU	WORK REQUEST NUMBER: DATE RECEIVED: ORIGINATOR CODE: ORIGINATOR CODE: ORIGINATOR CODE: DATE OF REQUEST: DESCRIPTION: BUILDING NUMBERS: ROOM NUMBERS: ESTIMATED DESIGN START: ESTIMATED DESIGN COMPLETION: DATE FROM ENGINEERING: ESTIMATED COST: ACTUAL DESIGN COMPLETION: DATE TO PAD:	CONTRACTOR NAME: APPROPRIATION TITLE: JOB CRUER NUMBER: EISCAL YEAR: P R AMOUNT: PROCUREMENT CONTROL NO: PCN DATE: DATE TO ACCOUNTING: DATE TO PROCUREMENT: DATE TO PROCURE NO: DATE TO PROCUREMENT: DATE TO PROCUREMENT: DATE ACTUAL CONST COMPLETE: INVOICE AMOUNT: COMMENTS: NUMBER OF AMENDMENTS:

#### 4) Retention of Data

Periodically, the operator runs a program which transfers inactive work requests from the active to the inactive file. They then no longer appear on the standard reports which the system prepares.

Goddard policy is to run this transfer program monthly after the monthly reports have been produced. The effect is that work requests will appear on the monthly reports until they are complete (or cancelled). Then they will appear on one monthly report as complete (or cancelled). Then they disappear from the reports.

Data on inactive work requests is kept as long as desired.

#### 2. HOW THE SYSTEM WORKS AT GODDARD

In order to clarify the features of the work request system, this section shows how Goddard uses it.

#### 1) Goddard Holds Bi-Weekly Management Reviews

Every other week, the Ql prints reports for use within the Facilities Engineering Division. These show, by engineer, the status of all work requests. Each engineer then sits down with his supervisor and reviews his work.

#### 2) External Reports Are Printed Monthly

Every month, the Ql prints reports that are sent to the various customer directorates and their divisions. These list the work requests from those organizations and their status.

Certain performance reports are also run monthly. From these, an analyst updates the trend charts such as the one in Figure 2 on page 7.

#### 3) Inputs Are Batched

Several people at Goddard enter data into the Q1 as part of the system; there is no full-time data-entry person. The usual pattern is as follows:

- . A person will process the work request or associated document
- The person will record the action in penand ink on a printout
- At a later time, the person will go to the Ql and enter the pen and ink markups into the data base.

A computer person would say that the inputs at Goddard are not done in "real time", as-you-go, but instead are "batched".

Since inputting is batched, the data in the computer is likely to be running several days behind events. This means that the source of up-to-the-minute status information is the annotated printouts kept by the various people who process work requests.

Goddard finds that this batch method of using the system best meets its needs in that:

- . The annotated printouts provide an audit trail which would not be available if people input directly from the various documents in passing.
- The computer system is such that it is easier to make several entries at once than to go to the Ql each time a document is processed.
- An up-to-the-minute data base is not needed. Goddard takes care that the data base is brought up to date before the bi-weekly reports are run. Other than that, Goddard has no need for more timely information.

#### 4) Status Queries Are Answered from Printouts

Goddard answers status queries by reference to the annotated printouts that various people maintain. The Ql aids this process by providing up-to-date and sorted reports every two weeks. Goddard has found that the annotated printouts are a more convenient source of information than the Ql terminal itself, even if the Ql data base were as up to date as the printouts, which it is not.

#### 5) At Goddard, the System Requires Half a Man-Year

Goddard assigns no one to operate the work request system full time. Instead, the clerical people who normally process work orders, purchase requests, and so on, all operate the Ql part time. A rough estimate of the total manpower expended is half a man-year.

A few tasks are now done automatically which were formerly done manually. However, the benefits of the system are not in manpower savings but in better control of the work and better management information.

#### 3. REPORTS PRODUCED BY THE SYSTEM

Figure 6 is the index of the Operator's Manual for the system. It shows all of the programs that are available, among them the report-writing programs, according to this key:

- R = Report-writing program
- I = Data inputting/updating program
- H = Housekeeping program

#### INDEX OF PROJEAMS

PROGRAM	PAGE #	PROGRAM FUNCTION	
WESCK1	10	Performs the sequence checks on Work Request Numbers.	H
WESCHP	12	Lists Work Requests with variances between Delivery Order or Purchase Order Amount and the Procurement Request Amount.	R
WRSDCR 1,2	13	Extracts information from the active (WRSDATA) and the inactive (WRSHIST) master file and print a Cross Reference of Work Request and Delivery Order Numbers.	R
WRSDIREC	15	Prints a directory of all work request control numbers on either active (WRSDATA) or (WRSHIST) master files in ascending order.	H
WESDUMP	16	Prints a complete listing of every field element on the desired input file in $^{\mu}$ segments.	R,H
WRSEDIT & WRSEPRT	19	Edit Analysis Program examines every field of data within each record for errors, and prints only those records with errors.	Н
WRSER 1	21	Work Requests by building and room number.	R
WRSFM 10	23	Program for adding a Work Request to the Master File.	I
WRSFM20-50	<b>25</b> .	Program for changing or adding to an existing Work Request Number.	I
WRSFOG1, WRSMR1	27	Lists work requests in design, followed by a summary by age in days.	R
WRSFOG3, WRSMR2	29	List procurement requests issued by not contractually awarded, followed by a summary by age in days.	R
WRSFOG#, WRSMR3	30	Lists work requests back from design but no procurement request issued, followed by summary by age in days.	R
WRSFOG5, WRSMR4	31	Hists work requests with delivery orders or purchase orders and construction not yet completed, followed by a summary by age in days.	R
WRSF0G6. WRSMR5	32	Prints work requests completed but no final payment made, followed by age in days.	R .
WRSFOG7,8	33	Prints WRSFOG5 information in Delivery Order number sequence.	R
WRSLMCP	34	Printing of PCN of Engineering date from last month.	R

#### KEY:

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- 5 - UPDATED 03/30/79

R = Report program

I = Input/update program

H = Housekeeping program

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#### INDEX OF PROGRAMS

PROGRAY	PAGE #	PROGRAY FUNCTION	
wrels3	35	Prints a load sheet for various data elements.	R
WRSMER2, WRSTRK30, WRSTRK35	· 37	Prints the average processing time for delivery orders.	R
WRSMERG	36	Merges the master and history files.	Н
WRSMOD 10	40	Program creates "Change Order" to the basic work request.	I
WRSMRG#	42	Program transfers records from the inactive file back to the active file.	H
wrs for 1	45	Lists purchase orders in ascending order.	R
WRSPRL1,2	<b>11</b> 6	Lists procurement controls numbers in chronological order.	R
WRSPR1,2	48	Lists a range of procurement control numbers in chronological order.	R
WRSPRT	49	Print File Program this program prints in a format called a "Data Sheet". It can print one, all, or a range of work request control numbers from your choice of file names (WRSDATA, WRSHIST, WRSWORK, etc.).	R
wrssr1,2	51	Extracts information from the active master file (WRSDATA) and sorts it to produce a user's status report.	R
WRSSR3,4	24	Prints a status report in organization code sequence.	R
wrssr5,6	56	Prints a status report in project coordinator sequence.	R
wrssr7,8	57	Prints a status report for each building.	R
WRSTFR	58	Transfers work requests from the active file (WRSDATA) to the inactive file (WRSHIST) which have been completed and paid or cancelled.	H
WRSTRKO	60	Prints the average processing time from date of request to date received.	R
WRSTRKI	61	Prints the average design processing time for all work requests.	R
WRSTRK2	62	Prints the average procurement processing time for change orders.	R

#### INDEX OF PROGRAMS

PROGRAM.	PAGE #	PROPAGE CONTRACTOR CONTRACTOR	
WRSTRK3	63	Prints the average procurement processing time (date of procurement request to date of award) for delivery orders.	R
Wrstrk#	64	Prints the average procurement processing time (date of procurement request to date of award) for purchase orders.	R
Wrstrk5	65	Prints the average time from contract award to construction start for delivery orders.	R
WRSTRK5A	66	Prints the average time from contract award to construction start for purchase orders.	R
Wrstrk6	67	Prints the average time from award of delivery orders to construction complete.	R
WRSTRK6A	68	Prints the average time from award of purchase orders to construction complete.	R
Wrstrk7	69	Prints the average time from construction start to construction complete for delivery orders.	R
WRSTRK7A	70	Prints the average time from construction start to construction complete for purchase orders.	R
WRSTRK8	71	Prints the average total turnaround time for work requests performed as delivery orders.	R
WRSTRK8A	72 .	Prints the average total turnaround time for work requests performed as purchase orders.	R
WRSTRK10	73	Prints the total contractual value of work awarded in a given month and the value of work outstanding.	R
WRSWRLX	74	Prints safety related work requests.	R
Wrswrl 1	75	Prints a work request control number log.	Н
WRS85R1,2	77	Prints the Code 500/800 work requests in Building 3 and $1^{11}$ .	R
AD HOC QUER	Y PROGRA	AM .	
WRSQRY	79	Enables the user to formulate questions about any given combinations of data and obtain the answer.	R

#### 4. INSTALLING THE SYSTEM

#### 1) No New Hardware Is Required

The work request system operates using the Q1's already in place throughout NASA. It uses floppy disks only.

If the number of work requests tracked exceeds about 1,200 per year, then the system may have to be shifted to the hard disk drive which the centers also already have. This would require programming but no new hardware.

#### 2) The Milestones to Be Tracked Must Be Determined

New users must understand the routing of their work requests. They must then decide what milestones they wish to track. Use Figures 3, 4 and 5 as models, especially Figure 5, the list of data to be collected. The more the center's list resembles Figure 5 or a subset thereof, the easier will be the installation.

#### 3) Some Programming Will Be Needed

The existing software will have to be modified as follows:

- The center's name will be substituted for Goddard's on all reports of interest to the center.
- The data entry and updating programs will be changed so that the screen shows only those data items that interest the center, using terminology familiar to the center.
- . Various reports will be changed to reflect the milestones and terminology used at the center.

Attached are sample reports produced by the system plus an extract from the Operator's Manual.

# ATTACHMENT A SAMPLE REPORTS

## REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

	AS OF 10/20/78	8L/vč/	EAC FAC VELIVENY	GOLDARD SPACE PLICHT CENTER FACILITIES ENGINEERING DIVISION DELIVERY ONDER NUMBER CHOSS HEPENENCE LIST	IGHT CENTER HING DIVISI HOSS HEPENE	10N 16C E.15T	PAVE FRUGHAN: LIGUEH?	l Musek?
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ACTIVE WORK REQUEST NUMBER DIRECTORY

The system has an excellent error-checking NOTE: facility. The "Edit Analysis Report" is run against the active jobs. Any jobs that have impossible or unreasonable data entries are printed like this one, one page per job.

> Here, the \*\*\*\* indicate that two dollar entries each exceed \$100,000. This may or may not be an error.

This error-checking program is in addition to error checking routines which are done at the time data is entered or updated.

SIS REPORT  DATA  DATA  6826 12/2 700 NAV  (2/2) (2/2) (1/2)	MASEPRI ERHOR FLAG	; ; ;								*	\$123,847.00 5.20			12-97-01	\$123,847.06						\$123,847.06		\$0.00	\$0.00	
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AS OF 06/05/79	(7)		GCUCARO SPACE TELCITI CENTER FACIL-1-11ES ERGINERING DIVISIGN LVANS REPORT		P.A.C.L. PROCASS:	I WESTER	
ВИГГОТИС	RUSH NUNCERS	CHC CHC	<bescription< th=""><th>DELIVERY GRUER RU</th><th>MCJEK REG ES</th><th>0711</th><th></th></bescription<>	DELIVERY GRUER RU	MCJEK REG ES	0711	
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WORK REQUEST SYSTEM - FACILITIES ENGINEERING DIVISION WORK REQUESTS BACK FROM DESIGN BUT NO PR ISSUED YET DATE PRINTED = 09/11/79

HOLD FOR FUNDS 080979 HOLD FOR FUNDS 072679 HOLD FOR FUNDS 060179 HOLD FOR FUNDS 072679 COMMENTS DATE FR ENGINEER 08-08-79 07-26-79 08-01-79 07-25-79 EST IMATED COST 20,000.00 7,769.02 21,797.31 15,672.19 <--- ROOM IS ---> **H053A** ROOF VAH BUILDING #S 905 017 018 <-- DESCRIPTION ---> REVISE AC SYSTEM INSULATE DUCTUK REP COILS HODIFY ROOM OR IG 743 27.1 27.1 NK REQ SAFETY NUMBER S .... 6169 \_ 1190\_\_ 7191 7169

PAGE NO: 1 PROGRAM: URSFOCA

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ACINIVIT PATHEMENT SALITITIONS - NATIVE THRUMAN AND THE SALITICAL OF THE CAMPAN SALITITIONS - NATIVE SHAHO THRUMAN SALITITIONS - NATIVE SALITITIONS - NATIVE

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Hotel Held   Countric   Formation   Form	AS OF 06/11/79			GUDDARD SPACE FLIGHT CENTER FACILITIES ENGINEERING DIVISION PROCUNEMENT REQUEST CONTROL LOG	FLIGHT CENTER NEERING DIVISI UEST CONTROL L	ES STON		PAGE 1 PRUZZAM: WASPIRZ
OFFICE FORDIFICATIONS   S1926   O9-29-76   T1		PROCUNEMENT CONTROL. #	PCN			JOB URDER	PH AHOUNT	FHD AVAILABLE BALANCE
Other Charge Removation   ST925   O9-30-76   TT   RPH   Z70-020-05-01-2T   Z97,   Z9		57526	09-29-76		!	680-992-54-25-01	6,555.86	
10   10   10   10   10   10   10   10		51525	91-06-60			12-10-920-020-012	20,000.00	
HINST-CABLE TRAYS   07336   03-01-77   71   HINS   680-392-54-01-01		\$7525001	92-30-60		:	270-020-05-01-27	680.80	
High care thats   01367   03-11-71   77   High   213-020-04-01-01   11,	468701	07193	02-01-77			680-992-54-25-01	19,581.46	
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A	4402=01	07564	05-13-77			900-992-54-01-01	138.86	
A/C HODIFICATIONS   07699   071-20-77		07668	11-90-10			850-312-20-10-12	1,900.00	
THAİLER SIGNS         OFFICE OFFICE         OFFICE O		01699	07-20-77			270-829-12-77-01	4,800.00	
CONCRETE CURB         07807         09-19-77         77         RPH         273-020-04-01-36           -01         940083, HETERS, ETC         07810         09-23-77         JHL         77         RPH         273-020-04-01-01           -01         HODS         10-07-77         77         COF         270-839-52-77-01           -01         HEMOVE FLR*MG & PT         57729         10-25-77         BEV         78         150-992-54-01-60           -01         570780001         11-16-77         77         COF         270-830-62-77-01           -01         57216         11-28-77         77         R&D         850-312-20-10-54           -01         57225         11-29-77         78         1MS         680-992-54-01-01           -02         570780002         01-10-78         77         COF         270-830-62-77-01           -02         57020-00-31         77         R&D         860-992-54-01-01		07794	08-26-77		77 INS	600-992-54-01-01	1,000.00	
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		51225	11-29-11	1	1	680-992-54-01-01	2,881.19	
79 INS 273-020-05-01-00	5762-02	570780002				270-830-62-77-01	693.78	
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	COMENTS	AREA NA			951 COMPLETE 091079	• • •	205 COMPLETE 091079		801 CCHPLETE 091079		708 COMPLE GOVT NAT 091079		•		MAT 041979	988 CONPLETE 032279		
	DATE CONSTR START COMP'L®			•	07/02/79	!	08/27/79		61/91/10				i !		81/6/10			
	DATE OF CONTR.	02/06/19	61/03/10	01/05/19	06/28/79	-61/08/50	08/17/79		61/80/90		05/29/79 06/26/79		t ;		12/08/77	12/08/77	03/16/78	02/05/79
	CONTR NO.	62008	62008	80029	3266	-3229-	3336		3242	3242	3226				2122	2122	21.52	2122
3	DATE COOF IN PROCHT REQUEST	12/08/78	04/12/79	05/21/79	06/18/79	-04/16/79-	61/60/90	09/12/79	62/191/50	01/27/19	05/25/79	08/29/79	,	09/12/79	07/20/77	10/01/77	03/01/78	01/08/79
COLUMN TO STATE	PROCHT REQUEST NO.	07549	075490001	075490002	070780200	.611,518 - 070560900 04/16/793229-	071180100	071180201	₩89£0	07773	562870001	070901300	:	031310100	66920	₩9025	570640002	07577
	EST'D OBLIGATED ACTUAL** COST	2584,00	400.00	924.004	4511.92#	641,51A.	10836.13	678.32	1674.36	390.91	14972.84	160.48		7202.00	4800.00	3188.52	616.65	325.25
	EST'D ACTUAL* DESIGN COMP'L DATE	12/07/78			03/21/79#	-017 02/06/79#	022 06/28/79		400 05/10/19#	:	05/22/79	017 08/20/79	09/12/79	09/30/19	04/28/77*			
	979	<b>9</b> 20		† :	017	-210	055		004	!	910	017	FSB	800	021			
	DESCRIPTION/ ORIGINATOR REQ #	REPL BOX-FOR CABLES			SAFETY ITEMS NAV	687827001/19/ <del>79</del> SAFETY-ITENS	270 01/30/79 PARTITION ROOMS		27005/10/79SDVALK/WATPRF WALLS		PROV CABLE TRAY	REPLACE LOCK NAV	FIRE ALARH EQUIP	HANDI CAP-MODS	A/C MODIFICATIONS		:	
	DATE RECEIVED	270 12/06/78			01/19/79	61/61/10	01/30/79		- 62/101/50-		05/22/79	270 -08/20/79	08/22/79	61/11/60	02/11/77			
	08C		270	-270	210	270		210		210	27.0	012	012	210	112	112	313	112
	WORK REQ NO.	6489	6489	6789270	5877	8289	6069	6069	7101.	7101	7136	7312	7324	7360	5218	5218	5218	5218

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WORK REQUEST STATUS	DBrocher	REQUEST	08																
MON	BallSi	COLIGATED*	ACTUAL **																
	EXTOD	ACTUAL.	COMP"L	DATE														!	
	6.2				16	410	900	900	200	900	003	007	910	603	160		-		
	DESCRIPTION				CUT HOLE IN DOOR	INST RECEPTACLES	FL & TANK SUPPORTS	INST SCREEN, ETC	ELEV AIRHAND UNIT	PAINT BUILDING	ASSEMBLE SHELVES	REPLACE DOOR	RELOCATE SIGNS	CHGE DOOR NUMBERS	ELECTRICAL GUILETS				
	DATE	HECEIVED			62/91/50	62/191/50	05/22/79	05/22/79	05/22/79	05/22/79	05/25/79	05/25/79	05/25/79	05/29/79	05/29/79				
	CRC				730 0	511 0	752 0	M50 0	0 089	0 089	531 0	755 0	755 00	570 05	600 06				
	WORK		Ē		71114	7115	7126	7127	7129	7130	7140	7142	7144	7145	7146				

GODDAND SPACE FLIGHT CENTER

DATE: 06/06/79

# FACILITIES ENGINEERING DIVISION

PRSSNA

# WORK REQUEST STATUS

Corenta	.ETE 030679 12277A	ētē. ,o	618230			;	TE 051579		ITE OCONTO					
	208 COMPA GOVT NAT	90 <b>6 CONP.</b> MAT 05027	USER NOLD		;	£0 03227\$	TUNDO SUÉ		509- COHPLE			NEDES 16N		
DATE CUNSTA START P CUNP"L®	01/23/79	11/60/11	11/07/18	09/26/130	05/21/79	06/12//10	03/21/79	95/02/79•	61/82/£0	•6L/10/50	09/15/160		•6L/62/k(	•61/61/tC
DATE OF CUMIR.	12/07/78 12/07/76 01/22/79	09/26/78 11/20/78	11/07/19	11/01/16		12/21/78 01/26/79 03/06/79 03/26/79	61/69/£0 95/10/79	01/22/79 03/15/79 04/30/79	61/91/60	01/12/79 03/13/79 02/27/79	93/28/19	é1/61/E0	61/60/10	: 61/11/10
DNT#	2721 2721 2721	2594	2654	2646		2756 2756 2756 2756	3079 3079	3008 3009 3008	3089	3000	3130	401F	÷10£	ico
DATE CO OF PROCMT REQUEST	11/20/76 11/20/76 01/10/79	09/18/78 11/13/78	10/30/78	10/27/78	97/11/50 97/11/50 97/11/50 97/11/50	12/19/18 01/26/79 02/13/79 03:21/79	92/21/79 04/21/79	92/13/76 92/13/79 94/12/79	61/10/10	91/11/79 62/20/20 05/16/79	61/22/16	61/10/19 9/21/19	61/31/20	61/21/10
PROCHT REQUEST NO.	07527 075270001 070190800	57854 370550400	070190300	070570400	07097 07685 85098028 07687	070190500 070191000 070191202 070191503	075790250 076791251	07552 070351100 070351231	91519	370581200 070901531 070901502	070191403	533	07507	07£24
EST*D ObligateD ACTUAL COST	13500,00° 8419,63° 551,83°	2166.28° 1293.23°	535.8ge	123.25**	29721.58 6564.50 1378.00 179.08	3274.34*	e391.01*	2661.24**	1026.51	2722.690	69.22	43°37°463	118%, 03**	1027.42**
EST"D ACTUAL® DESIGN COMP"L DATE	10/04/78•	08/10/78*	10/10/78	10/19/78	05/14/79	12/18/78•	05/15/15 <del>0</del>	12/22/76•	05/28/19	01/08/79•	#ó <i>L/</i> 02/Ł0	02/28/79•	02/15/73	03/12/79•
<b>4.</b> 0	603	69	903	600	600	903	603	903	603	603	903	<b>29</b>	600	603
DESCRIPTION	REDUNDANT POLER	MODE LOW AME SYST	INSTL POWER PANEL	REPL PROJ CORD	PULL CABLES	·RELOG- REGULATOR, ETC	ROOM HODS	ROOM MUDS	REN PNEUMATIC TUBE	UPGRADE ROUMS	RELEVEL FLLOR	MUDIFY AIR DUCT	CONSTRUCT CABINETS	PT WALL: RELUC MOS
DATE RECEIVED	03/09/18	06/27/78	97/31/70	10/05/78	10/18/78	-10/31/78	11/03/78	11/08/78	12/11/78	12/28/78	61/101/10	02/02/19		03/08/19
COD	532 532 532	262	535	250	512 512 512 512	532 532 532	\$3 53 :		549	2711 2711 2711	530	851 851	130	25
NEC NO.	6167 6167 6167	6480 6480	6540	9999	6682 6682 6682 6682	6719 6719 6719 6719	6734 6734	6738 6738 6738	5801	6834 6834 5834	6989	6927 5927	1869	1169
	COD RECEIVED DESCRIPTION FLD EST"D FRUCKT DATE CONTR DATE DATE  COD RECEIVED  ACTUAL® OBLIGATED® REQUEST OF WO. OF CONSTR  DESIGN ACTUAL® NO. PROCMT CONTR. START F. 1.  COMP"L COST  DATE	ORG         DATE         DESCRIPTION         FLD         EST*D         FROCHT         DATE         CONTR         DATE         DATE           CUD         RECEIVED         RECEIVED         REQUEST         NO.         FROCHT         CUNFR.         START         CONFR.           CUMP*L         CUST         REQUEST         CUMP*L         CUNF*L         CUMP*L         CUMP*L           532         03/09/78         REDUNDANT POWER         003         10/04/78*         13500.00*         07527         11/20/76         2721         12/07/78         GOVT NAT           532         532         03/09/78         RATO         651.83*         070190800         01/10/79         2721         12/07/78         GOVT NAT	ORG         DATE         DESCRIPTION         HLD         EST*D         FRQUEST         OF         WO.         FRQUEST         DATE         GONTR         DATE         DATE           CUD         RECEIVED         ACTUAL**         OH.IGATED**         REQUEST         WO.         FROCAT         OF         CONSTR         CONP*L*         CONP*L*	ORG         DATE         DESCRIPTION         HLD         EST"D         EST"D         PROCHT         CONTR         DATE         CONTR         CONTR         CONTR         CONTR         CONTR         START         CONTR         CONTR         START         CONTR         CONTR <th>ORG         DATE         DESCRIPTION         FLO         EST*D         PROCHT         PROCHT         DATE         DATE         DATE           COD         RECEIVED         ACTUAL**         Uhlidated**         NO.         PROCHT         OF         CONTR.         START         CONSTR           532         O3/09/78         REQUEST         NO.         PROCHT         CUNIR.         START         CUNIP.L.         CUNIP.L.         START         CUNIP.L.         CUNIP.L.         START         CUNIP.L.         <td< th=""><th>ONG         DATE         DESCRIPTION         BLD         EST*D         FNOCHT         DATE         COMTR         DATE         COMTR         DATE         COMSTR           CUD         RECEIVED         ACTUAL**         OPLIGATED**         NO.         FRAUEST         OF         NO.         OF         CUNTR.         START         TO.           S12         OSA/09/78         REDUNDANT FOLER         OD         10/04/78*         13000.00*         07527         11/20/78         2721         12/07/78         CUNTR.         START         TO.           S12         OSA/21/78         REDUNDANT FOLER         OD         10/10/78*         13000.00*         075270001         11/20/78         2721         12/07/78         01/22/79         11/09/78           S12         OSA/21/78         HODF LOW AMS STST         OO         08/10/78*         2166.28*         578-4         09/14/78         2594         11/07/78         11/09/78           S12         OT/31/78         INST. FOWER PAREL         OU         10/10/78*         535.09*         070550400         10/21/778         2594         11/07/77         11/07/77         11/07/77           S12         10/09/78         INOTOTOR         S35.08*         070570400         10/21/778</th><th>ODG         DATE         DESCRIPTION         Ha.D         EST*D         PROCMT         PROCMT         OF         ON.         OF         COMSTR           5.00         RECEIVED         ACTUBL**         OnLIGHTED**         ACTUBL**         ACTUBL**</th></td<><th>ub         DATE         DESCRIPTION         LACTURAL         EST*D         FROOMT         DATE         COMPT         DATE         DATE         DATE         COMPT           50.0         RECEIVED         ACTURAL         MACHURA         RACHURA         NO.         MACHURA         NO.         COMPT         COMPT</th><th>0.00         DATE         DATE         COMPT         PROCNET         PROCNET         PROCNET         PROCNET         PROCNET         COMPT         STATE         COMPT         COMPT         STATE         TO           5.2         0.0         BECELVEB         BECHTON         0.0         COMPT         COMPT</th><th>  Deciding   Date:   D</th><th>OND         DATE         DATE         PROCH         PROCH         PROCH         ONT         COMET         PART         &lt;</th><th>OND         BATE         DATE         PROCES         PROCES         PROCES         PROCES         PROCES         PROCES         PROCES         PROCESS         PROCESS</th><th>  Decision   Date   Dat</th><th>  0.00   RICEL   RICEL</th></th>	ORG         DATE         DESCRIPTION         FLO         EST*D         PROCHT         PROCHT         DATE         DATE         DATE           COD         RECEIVED         ACTUAL**         Uhlidated**         NO.         PROCHT         OF         CONTR.         START         CONSTR           532         O3/09/78         REQUEST         NO.         PROCHT         CUNIR.         START         CUNIP.L.         CUNIP.L.         START         CUNIP.L.         CUNIP.L.         START         CUNIP.L.         CUNIP.L. <td< th=""><th>ONG         DATE         DESCRIPTION         BLD         EST*D         FNOCHT         DATE         COMTR         DATE         COMTR         DATE         COMSTR           CUD         RECEIVED         ACTUAL**         OPLIGATED**         NO.         FRAUEST         OF         NO.         OF         CUNTR.         START         TO.           S12         OSA/09/78         REDUNDANT FOLER         OD         10/04/78*         13000.00*         07527         11/20/78         2721         12/07/78         CUNTR.         START         TO.           S12         OSA/21/78         REDUNDANT FOLER         OD         10/10/78*         13000.00*         075270001         11/20/78         2721         12/07/78         01/22/79         11/09/78           S12         OSA/21/78         HODF LOW AMS STST         OO         08/10/78*         2166.28*         578-4         09/14/78         2594         11/07/78         11/09/78           S12         OT/31/78         INST. FOWER PAREL         OU         10/10/78*         535.09*         070550400         10/21/778         2594         11/07/77         11/07/77         11/07/77           S12         10/09/78         INOTOTOR         S35.08*         070570400         10/21/778</th><th>ODG         DATE         DESCRIPTION         Ha.D         EST*D         PROCMT         PROCMT         OF         ON.         OF         COMSTR           5.00         RECEIVED         ACTUBL**         OnLIGHTED**         ACTUBL**         ACTUBL**</th></td<> <th>ub         DATE         DESCRIPTION         LACTURAL         EST*D         FROOMT         DATE         COMPT         DATE         DATE         DATE         COMPT           50.0         RECEIVED         ACTURAL         MACHURA         RACHURA         NO.         MACHURA         NO.         COMPT         COMPT</th> <th>0.00         DATE         DATE         COMPT         PROCNET         PROCNET         PROCNET         PROCNET         PROCNET         COMPT         STATE         COMPT         COMPT         STATE         TO           5.2         0.0         BECELVEB         BECHTON         0.0         COMPT         COMPT</th> <th>  Deciding   Date:   D</th> <th>OND         DATE         DATE         PROCH         PROCH         PROCH         ONT         COMET         PART         &lt;</th> <th>OND         BATE         DATE         PROCES         PROCES         PROCES         PROCES         PROCES         PROCES         PROCES         PROCESS         PROCESS</th> <th>  Decision   Date   Dat</th> <th>  0.00   RICEL   RICEL</th>	ONG         DATE         DESCRIPTION         BLD         EST*D         FNOCHT         DATE         COMTR         DATE         COMTR         DATE         COMSTR           CUD         RECEIVED         ACTUAL**         OPLIGATED**         NO.         FRAUEST         OF         NO.         OF         CUNTR.         START         TO.           S12         OSA/09/78         REDUNDANT FOLER         OD         10/04/78*         13000.00*         07527         11/20/78         2721         12/07/78         CUNTR.         START         TO.           S12         OSA/21/78         REDUNDANT FOLER         OD         10/10/78*         13000.00*         075270001         11/20/78         2721         12/07/78         01/22/79         11/09/78           S12         OSA/21/78         HODF LOW AMS STST         OO         08/10/78*         2166.28*         578-4         09/14/78         2594         11/07/78         11/09/78           S12         OT/31/78         INST. FOWER PAREL         OU         10/10/78*         535.09*         070550400         10/21/778         2594         11/07/77         11/07/77         11/07/77           S12         10/09/78         INOTOTOR         S35.08*         070570400         10/21/778	ODG         DATE         DESCRIPTION         Ha.D         EST*D         PROCMT         PROCMT         OF         ON.         OF         COMSTR           5.00         RECEIVED         ACTUBL**         OnLIGHTED**         ACTUBL**         ACTUBL**	ub         DATE         DESCRIPTION         LACTURAL         EST*D         FROOMT         DATE         COMPT         DATE         DATE         DATE         COMPT           50.0         RECEIVED         ACTURAL         MACHURA         RACHURA         NO.         MACHURA         NO.         COMPT         COMPT	0.00         DATE         DATE         COMPT         PROCNET         PROCNET         PROCNET         PROCNET         PROCNET         COMPT         STATE         COMPT         COMPT         STATE         TO           5.2         0.0         BECELVEB         BECHTON         0.0         COMPT         COMPT	Deciding   Date:   D	OND         DATE         DATE         PROCH         PROCH         PROCH         ONT         COMET         PART         <	OND         BATE         DATE         PROCES         PROCES         PROCES         PROCES         PROCES         PROCES         PROCES         PROCESS         PROCESS	Decision   Date   Dat	0.00   RICEL
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AVG. O OF DAYS NUMBER COMPLETED

RECIDEST         DATE         PLATE         DATE         PO/DO         PO	;													
09/06/77 MAB         09/06/77 MAB         09/06/77 MAB         09/21/77 MAB         09/21/78 MAB<	REQUEST	<u></u>	DATE	2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	DATE FROM ENGR.	COST	P. K.	DATE OF PR	DATE FROH PROG	P0/B0 NO.	DATE OF PO/DG	ACTUAL CONST STANT	ACTUAL CONST COMPL	PAID INVOICE ANT
09/06/77 ADL         03/10/78         \$2,740.10         \$7659         06/01/76         \$1/03/76         \$2409         \$0/31/76         \$0/31/76           09/08/77 ADL         \$9/14/77         \$46,558.69         \$0/806         \$0/19/77         \$0/28/78         \$0/28/78         \$0/28/78         \$0/28/78         \$0/28/78         \$0/28/78         \$0/28/78         \$0/28/78         \$0/28/78         \$0/28/78         \$0/28/78         \$0/28/78         \$0/28/78         \$0/28/78         \$0/28/78 <td< td=""><td>9/60</td><td>1/11</td><td>11/90/60</td><td>MAB</td><td>11/90/60</td><td>\$ 300.09</td><td>97.198</td><td>11/90/60</td><td>09/21/17</td><td>2022</td><td>71/12/60</td><td>71/12/60</td><td></td><td>80.08</td></td<>	9/60	1/11	11/90/60	MAB	11/90/60	\$ 300.09	97.198	11/90/60	09/21/17	2022	71/12/60	71/12/60		80.08
09/08/77 MBS 09/14/77 \$46,558.69 07806 09/19/77 09/28/77 2026 09/28/77 08/21/78 09/01/78 09/19/77 CLH 11/16/77 \$3,864.09 57539 04/17/78 06/19/78 S41907 06/19/78 09/03/77 09/22/77 WAB 09/22/77 \$1,490.09 07810 09/23/77 09/28/77 S30340 09/28/77 10/03/77 09/22/77 WAB 09/22/77 \$11,048.58 57471 03/24/78 04/13/78 04/24/78 04/24/78 06/01/78 09/24/78 04/24/78 04/24/78 04/24/78 06/01/78 04/24/78 05/19/78 06/01/78 06/23/78	00/2	3/17	11/90/60	AD.	03/10/78	\$2,740.10	57659	06/01/78	97/03/18	2449	01/03/10	00/31/78		60.0
09/19/77 CLM 11/16/77 \$1,864.09 57539 04/11/78 06/19/78 S41907 06/19/78 09/03/78 09/01/78 09/21/77 WAB 09/22/77 \$1,490.09 07810 09/23/77 09/28/77 530340 09/28/77 19/03/77 09/21/77 WAB 03/24/78 \$11,048.58 57471 03/24/78 04/14/78 2305 04/13/78 04/29/78 09/01/78 09/30/77 WAB 02/13/78 \$3,810.70 07544 03/29/78 04/24/78 2312 04/24/78 05/01/78 09/30/77 WAB 03/07/78 \$3,810.00 57301 04/10/78 55/11/78 S41585 05/10/78 05/19/78 05/23/78	38/2	11/6	09/08/17	MBS	11/41/60	\$46.558.69	90810	11/61/60	09/28/17	2026	09/28/77	08/21/78		\$0.00
09/21/77 bab 09/22/77 \$1,490.09 07810 09/23/77 09/28/77 830340 09/28/77 10/03/77 09/28/77 bab 03/24/78 \$11,048.58 57471 03/24/78 04/14/78 2305 04/13/78 04/20/78 09/01/78 09/30/77 bab 02/13/78 \$3,810.70 07544 03/29/78 04/24/78 2312 04/24/78 05/07/78 06/01/78 09/31/78 09/30/77 bab 03/07/78 \$3,810.00 57301 04/10/78 05/11/78 841585 05/10/78 05/19/78 06/23/78	5	2/11	11/61/60	S	11/16/77	\$3,864.09	57539	94/11/18	06/19/78	S#1907	06/19/78	08/93/18	91/10/60	9.0
09/21/77 WAB 03/24/78 \$11,048.58 57471 03/24/78 04/14/78 2305 04/13/78 04/20/78 09/01/78 09/31/77 WAB 02/13/78 \$3,810.70 07544 03/29/78 04/24/78 2312 04/24/78 06/07/78 09/01/78 09/31/78 09/31/78 05/10/	8	11/9	11/12/60	FAB	09/22/11	\$1,490.00	07810	09/23/77	09/28/17	839340	09/28/77	19/03/11		<b>₩</b>
09/30/77 WAB 02/13/78 \$3,810.70 07544 03/29/78 04/24/78 2312 04/24/78 06/07/78 09/30/77 WAB 03/07/78 \$3,870.00 57301 04/10/78 95/11/78 S41585 05/10/78 05/19/78 06/23/78	Š	17/61	11/12/60	RYB	93/24/78	\$11,048.58	11115	03/24/78	04/14/78	2395	04/13/78	04/20/18	81/10/60	\$0.0
09/30/77 MAB 03/07/76 \$3,670.00 57301 04/10/76 95/11/76 S41565 05/10/76 05/19/76 06/23/78	8	3/17	09/30/17	MAB	CE/13/78	\$3,810.70	07544	03/29/78	94/24/78	2312	04/24/18	06/01/18		90.0 <del>\$</del>
	8	11/6	09/30/17	HAB	03/01/18	\$3,870.00	57301	94/10/78	95/11/78	S41585	05/10/78	05/19/10	06/23/78	\$0.0 <del>\$</del>

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rak 1	ESTS		ACTUAL CONST COMPL	09/28/78 09/28/78 06/11/78 06/03/78
PHUGHAM: WASTRKI	ALL WOHE NEQUESTS	117.33 6	ACTUAL CUNST START	93/17/16 97/19/19 91/19/16 96/21/16 12/19/11
Z			DATE OF PO/DO	03/03/78 06/13/78 06/13/78 06/13/79 12/13/77
	STOGOG & OVER	280 1	P0/B0	2237 241905 241905 2135 250971
ROJECTS	jóot \$	₹.	DATE FROM PNOC	03/03/18 06/13/18 06/13/18 06/13/18 12/13/19
UEST SYSTEM DESIGN ALL PROJECTS	\$2500-9999.99	125.33	DATE:	01/26/18 02/22/19 02/22/18 10/25/17 11/02/17
ORK REQUES	9 9		P. H.	57395 57378 57378 57129 57119
AVERAGE PROCESSING TIME DESIGN	9C1 OBEN \$500-2499.99	\$ °	COST	\$23,585.22 \$4,200.00 \$4,200.00 \$3,450.00 \$1,8976.11
AVERAG	\$0-499.99	e	DATE FROM ENGR.	0/11/77 0/21/77 0/21/77 0/20/77 0/06/77
	<b>*</b>		25 8	C P C P P P P P P P P P P P P P P P P P
			DATE	12/11/76 01/04/71 05/13/71 05/23/77 05/13/71 05/23/77 01/13/71 08/19/77 06/26/77 08/31/77
92		AVG. # OF DAYS NUMBER COMPLETED	HEQUEST DATE	12/11/76 05/13/77 05/13/77 07/13/77 06/26/77
10/11/78		AVG. #	WORK REQ NO.	5083 5514 5514 5670 5703

F.E.D. WORK HEQUEST SYSTEM
AVERAGE PROCESSING TIME -- PROCURENENT PROCESS--DELIVENY GRIDENS

FAID INVOICE AMT PROGRAM: MESTRES ACTUAL CUNST CUNPL ALL MONT NEQUESTS 81/61/10 01/16/10 ACTUAL CURST START DATE CF PO/DO \$10000 4 OVER 70/00 ₹0. 91/19/78 2169 DATE FRUN PROC \$2500-9999.99 01/10/1B Pa c. 0 <u>∓</u> ₹ \$16,011.51 57285 JANUAHY \$590-2499.99 CUST • 01/09/18 DATE FROM ENGR. \$9-199.99 0 ₹ § 01/15/76 0B/06/76 WAB DATE AVG. # OF DAYS NUMBER COMPLETED HEQUEST DATE

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WORK NEG NO.

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4674

10/11/78

•		CONTR															
		PAID INVOICE AMT	\$0.0% \$0.09	\$9.90	<b>90.03</b>	\$9.00	8. e	<b>8</b> . <b>£</b>	\$0.00	<b>2</b> .3	60.08	2.2	8.8	<b>9.0</b>	8.0 <del>4</del>	8.0	80.08
ESTS		ACTUAL CONST COMPL	96/15/78						81/10/60		91/29/10			91/50/18			
ALL WOME REQUESTS	<b>ت</b> م	ACTUAL COUST START	93/30/18	03/17/78					03/06/18		03/23/70			03/01/18			
		DATE OF PU/DO	03/03/78	03/03/18	06/21/78	09/01/18	02/10/60		02/11/10		03/16/78	04/20/18	02/02/10	02/24/18	04/03/18	06/21/18	06/21/10
\$10000 & OVER		P0/b6 NO.	200	22.31	2237	2231	22.17	2231	2203	2203	2248	2248	2248	2194	2194	2194	2194
<b>\$</b>	-	DATE FRUM PROC	03/03/18	03/03/18	96/22/78	09/01/18	81/10/60		@/17/18		03/16/78	05/05/18	05/05/18	02/24/78	04/03/78	06/27/78	06/21/10
\$2500-9999.99	9 <u>.</u>	DATE OF PR	01/10/78	01/26/18	96/15/78	07/11/78	06/11/18	10/04/18	05/06/18	09/25/18	03/08/18	04/05/78	04/12/78	02/23/78	03/13/78	03/23/78	06/19/78
ŧ		P.R.	57293 572930001	57305					57 329		57413	574130001	574130002	57382	573820001	573820002	57 38 20003
\$500-2499.99	<u>~</u> ~	COST	\$4,149.19	\$23,505.22	\$2,598.39	\$74.84	\$673.18	\$314.80	\$1,631.41	<b>\$339.00</b>	\$408.69	\$124.64	\$97.00	\$1,285.00	<b>\$1,325,64</b>	\$263.75	8468.75
\$0-469.99	•	DATE FROM ENGR.	11/18/11	11/11/01					02/06/18		03/06/78			02/23/78			
0.		<b>CB</b> 8	MAB	7.15					ADL		3			3			
		DATE	08/13/76 08/13/76 WAB	11/40/10					12/22/17		02/22/18			C2/23/78 C2/23/78 CLM			
	AVG. 4 OF DAYS NUMBER COMPLETED	REQUEST DATE	08/13/76	12/11/76 01/04/77					11/23/11		32/15/78 02/22/78			02/23/18			
	AVG. #	WORK NEQ NO.	5075	5983	598301	508302	598303	508394	5980	598091			613302	6138		613802	613803

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

MESTART			CONTR	\$0.00 \$9.09	\$0.00	<b>10.00</b>	\$0.00	00.00	0.00	<b>8.9</b>	00.00	\$0.00	\$0.00	\$0.00	8.	8.	\$0.00	\$0.00	<b>90.0</b>
PROGRAM: WESTRET			FAID INVOICE AMT	**	•	*	*	<b>*</b>	<b>*</b>	<b>نه د</b>	• <del>-</del>	*	*	*	*	*	*	*	*
	24.2		ACTUAL COUST COUNT	91/59/18	81/61/10	01/28/18			91/20/18			01/20/18		91/31/18		06/21/78 07/10/78		01/26/18	
DEBS	ALL WOHK REAM-275	46.375 8	ACTUAL CONST STANT	06/28/78	06/21/78	03/23/78		1	03/01/18			01/19/18		07/11/78		06/21/78		91/12/18	
elivent on			DATE OF PO/UO	06/01/78	06/13/78	03/16/78	04/20/18	05/05/18	02/24/18	04/03/18	06/21/18	06/05/78	09/21/16	06/19/78		06/13/78	09/26/78	01/03/18	09/21/18
UCT 10NBI	\$10000 & OVER	•	P0/D0	2397		2248	22.48			2194			2404	2428	2428	24.14	24.25	2457	2457
Ek CONSTRI	<b>\$19</b>		DATE FROM PROC	06/02/78	06/13/78	03/16/78	05/05/78	05/05/18	02/24/78	94/93/18	06/21/18	06/01/18	09/21/78	06/19/78		06/13/78	09/26/18	97/03/78	09/21/18
ACTUAL TIME UNDER CONSTRUCTIONDELIVENT ORDERS	\$250ú-9999.99	80	DATE OF PR	95/12/78 07/19/78	05/01/18	93/08/78	ON /05/78	04/12/78	02/23/78	03/13/78	03/23/16	05/12/78	06/30/18	05/31/78	08/03/18	06/12/78	01/26/18	06/16/78	09/01/18
BEQUE	ł		P.R.	57610 576100001	51517	57413	574130001	574130002	57 382	573820001	57 38 20003	57612	576120001	57654	576540001	57676	576760001	57687	160018915
F.E.D. WORK AVEHAGE PROCESSING TIME JUL)	\$500-2499.99	ទីខ	COST	\$39%.33 \$157.36	\$1.109.12	8408.69	\$124.64	\$97.00	\$1,285.00	\$1,325.64	\$263.75 \$468.75	x82,55	\$165.72	\$1,154.21	\$639.23	\$1,754.53	\$580.41	\$ 368.82	\$211.48
AVEHAGI	\$0-499.99		DATE FROM ENGR.	92/11/20	04/25/78	03/06/78			02/23/78			FK/11/78		95/31/78		96/08/78		06/16/78	
	<b>*</b>		PRJ COR	MAB	7	CLA	į		S.			214		CLM		CLM		ELS CLM	
			DATE	11/09/17	17/14/17	00/22/18			02/23/78			A1700/18		05/25/78		06/02/78		05/30/18 06/05/18	
.50		AVG. # OF DAYS NUMBER COMPLETED	HEQUEST	10/21/11	17/00/21	02/15/78			02/23/18			AL /03/78		05/11/18		65/01/78		05/30/18	
10/11/78		AVG	VORK REQ NO.	5891	509 TO 1	2666	108819	613392	6138	613801	613802	60010	626201	6101	106 969	6113	102149	6414	641401

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10/11/78

\$0-466.66

10.6363 11 AVG. # OF DAYS NUMBER COMPLETED

10/20/TJ         11/02/TJ         02/11/TB         5599T1         02/11/TB         06/03/TB         <	NEQUEST DATE	DATE	PRJ 800	DATE FROM ENGH.	COST	P. R.	DATE OF PR	UATE FROM PROC	FU/U0 NO.	DATE OF PO/DO	ACTUAL COUST STANT	ACTUAL CONST COMPL	PAID INVOICE AMT
JLW         03/14/78         \$120.00         \$7440         03/15/78         05/09/78         \$52833         05/05/78         08/04/78           JLW         03/14/78         \$120.00         \$7440         03/15/76         05/10/78         \$52639         04/25/78         06/04/78           JLW         03/14/78         \$235.00         \$7143         03/15/76         06/23/78         \$52639         04/25/78         06/04/78           JLW         03/14/78         \$235.00         \$7143         03/15/76         06/23/78         \$52639         04/25/78         06/04/78           JLW         03/14/78         \$235.00         \$7143         03/15/76         06/23/78         \$5406/78         07/25/78 <t< td=""><td>10/1</td><td>177</td><td>KT3</td><td>10/25/77</td><td>\$1,897.00</td><td>57 15 1</td><td>11/02/17</td><td>02/11/18</td><td>550971</td><td>02/11/18</td><td>01/15/10</td><td>08/03/18</td><td>60°6</td></t<>	10/1	177	KT3	10/25/77	\$1,897.00	57 15 1	11/02/17	02/11/18	550971	02/11/18	01/15/10	08/03/18	60°6
JLW         03/14/78         \$498.00         \$7438         03/15/78         05/10/78         \$52639         04/25/78         06/23/78         06/06/	10/20	717	75	03/14/78	\$120.00	57 MBO	03/15/78	05/09/18	552833	05/05/18	06/04/18	82/00/90	5.04
JLW         03/14/78         \$235.00         57445         03/15/78         04/25/78         55636         04/25/78         04/06/78         04/06/7	10/20	111	7	03/14/78	\$498.00	57438	03/15/76	05/10/18	\$52639	04/25/18	06/04/18	98/24/18	<b>0.€</b>
JLM         03/14/78         (* /13.00         5/14/39         03/15/78         06/23/78         5/43/96         06/22/78         06/22/78         07/20/78           JLM         03/14/78         \$132.00         5/14/39         03/15/78         06/23/78         06/05/78	10/5	111	JL	93/14/78	\$235.00	57445	03/15/78	04/25/78	552638	Q1/25/18	98/08/18	08/08/18	ð.
JLW         03/14/78         \$5430         06/23/78         \$55430         06/23/78         06/23/78           JLW         03/14/78         \$312.00         \$7444         03/15/78         04/25/78         \$52637         04/25/78         07/11/78         07/11/78         07/11/78         07/11/78         07/11/78         07/11/78         07/11/78         07/11/78         07/11/78         07/11/78         07/11/78         07/11/78         07/11/78         06/11/78         <	10/20	717	TE	03/14/78	6 13.00	57439	03/15/78	06/23/78	S54306	06/22/18	01/20/18	08/11/18	5.0 <b>.</b>
JLW         03/14/78         \$320.00         \$144         03/15/18         04/25/76         \$52637         04/25/76         07/28/78           JLW         03/14/78         \$420.00         \$744         03/15/78         05/09/78         \$52833         05/05/78         07/28/78           JLW         03/14/78         \$240.00         \$744         03/15/78         05/09/78         \$52833         05/05/78         07/28/78           JLW         03/14/78         \$240.00         \$744         03/15/78         05/09/78         \$52833         05/05/78         07/10/78           JLW         03/14/78         \$500.00         \$744         03/15/78         05/09/78         \$52833         05/05/78         07/11/78           JLW         03/14/78         \$514         03/15/78         03/15/78         05/09/78         \$5283         05/05/78         07/11/78           JLW         03/14/78         \$514         05/09/78         \$5287         05/05/78         07/11/78           JLW         03/14/78         \$5287         05/05/78         05/05/78         05/11/78         05/05/78         07/11/78           JLW         \$500.07         \$500.07         \$500.07         \$500.07         \$500.07         05/05/78         <		:			\$673.00	574390001	05/12/78	96/23/78	354306	06/23/10			ð. <b>3</b>
JLW         03/14/76         \$52813         05/05/78         08/08/78         08/08/78         08/08/78           JLW         03/14/76         \$240.09         57449         03/15/76         05/09/76         \$52833         05/05/76         07/28/76           JLW         03/14/76         \$111.86         57449         03/15/76         05/05/76         552833         05/05/76         07/28/76           JLW         03/14/76         \$100.00         57441         03/15/76         05/05/76         05/05/76         05/05/76         07/05/76         07/05/76         07/05/76         07/05/76         07/05/76         05/05/76         07/05/76         07/05/76         07/05/76         07/05/76         07/05/76         07/05/76         07/05/76         07/05/76         07/05/76         07/05/76         07/05/76         07/05/76         07/05/76         07/05/76         07/05/76         07/05/76         07/05/76         07/05/76         07/05/76         05/05/76         07/05/76         05/05/76         05/05/76         05/05/76         05/05/76         05/05/76         05/05/76         05/05/76         05/05/76         05/05/76         05/05/76         05/05/76         05/05/76         05/05/76         05/05/76         05/05/76         05/05/76         05/05/76         05	10/2	0/17	75	03/14/78	\$372.00	57444	03/15/18	04/25/78	552637	04/25/10	01/28/18	98/08/18	P.7.
JLW         03/14/78         \$240.09         57440         03/15/78         05/09/78         \$52833         05/05/78         07/28/78           JLW         03/14/78         \$311.88         57448         03/15/78         05/15/78         \$53156         05/08/78         07/11/78           JLW         03/14/78         \$400.00         5744         03/15/78         05/09/78         \$52860         05/05/78         07/11/78           JLW         03/14/78         \$375.00         5744         03/15/78         05/09/78         \$52860         05/05/78         07/11/78           JLW         03/14/78         \$375.00         5744         05/09/78         \$52874         05/05/78         07/11/78           JLW         05/10/78         \$52874         05/05/78         05/05/78         05/16/78         05/16/78           CLH         05/10/78         \$540.00         57621         05/12/78         05/19/78         05/16/78         05/16/78           CLH         05/10/78         \$600.00         57621         05/19/78         07/10/78         584710         07/10/78         06/21/78           CLH         05/10/78         \$600.00         57621         05/10/78         06/21/78         06/21/78         06/21/78	5/2	11/0	77	03/14/78	\$420.00	51447	03/15/78	05/09/18	552873	05/05/18	08/08/18	- 08/08/18	0.0 <b>.</b>
JLM         03/14/78         \$311.88         \$7448         03/15/78         05/15/78         \$53156         05/08/78         07/11/78           JLM         03/14/78         \$400.00         \$7441         03/15/78         05/09/78         \$52860         05/05/78         07/11/78           JLM         03/14/78         \$375.00         \$7442         03/15/78         05/09/78         \$52874         05/05/78         07/11/78           WBS         05/03/78         \$681.00         06/580         05/03/78         06/01/78         \$53746         06/06/78         06/16/78           CLM         05/10/78         \$500.00         \$7621         05/12/78         06/28/78         06/28/78         06/16/78         06/16/78           CLM         05/10/78         \$1621         05/19/78         07/10/78         \$54309         06/28/78         07/10/78         06/10/78           CLM         05/10/78         \$60002         08/21/78         06/21/78         \$60002         08/21/78         06/21/78	10/2	11/0	31.4	03/14/78	\$240.09	04415	03/15/78	05/09/18	\$52833	05/05/18	91/28/18	08/04/18	0-6
JLN 03/14/76 \$400.00 57441 03/15/78 05/09/78 552869 05/05/78 07/11/78 JLN 03/14/76 \$400.00 57442 03/15/78 05/09/78 552874 05/05/78 07/11/78 JLN 03/14/78 \$681.09 06580 05/03/78 06/01/78 553746 06/06/78 06/16/78 CLH 05/10/78 \$500.00 57602 05/12/78 06/28/78 554309 06/28/78 07/10/78 CLH 05/10/78 \$494.09 57621 05/19/78 07/10/78 554710 07/10/78 08/10/78 CLH 05/10/78 \$894.52 57799 08/10/78 560402 08/21/78 08/21/78	2	11/0	JLV	03/14/78	£311.88	57448	03/15/78	05/15/78	853156	05/08/78	07/18/78	98/04/18	0.0 <b>\$</b>
JLW 03/14/76 \$375.00 57442 03/15/78 05/09/78 552874 05/05/78 07/11/78 WBS 05/03/78 \$681.00 06580 05/03/78 06/01/78 553746 06/06/76 06/16/78 CLM 05/10/78 \$500.00 57602 05/12/78 06/28/78 554309 06/28/78 07/10/78 554309 06/28/78 07/10/78 05/10/78	2	11/0	JL.	03/14/78	\$ 400.00	57441	03/15/78	05/09/18	552860	05/05/18	07/11/18	06/08/78	0.C
WBS 05/03/78 \$681.09 06580 05/03/78 06/01/78 553746 06/06/78 06/16/78 CLM 05/10/78 \$500.00 57602 05/12/78 06/28/78 554309 06/28/78 07/15/78 CLM 05/16/78 \$494.09 57621 05/19/78 07/10/78 554710 07/10/78 08/10/78 CLM 05/10/78 554710 07/10/78 08/21/78 08/21/78	2	20/17	JE	03/14/78	\$375.00	57342	03/15/78	05/09/18	S52874	05/05/18	81/11/10	06/11/18	D.0 <b>4</b>
CLM 05/10/78 \$500.00 57602 05/12/78 06/28/78 554309 06/28/78 07/10/78 CLM 05/18/78 \$494.00 57621 05/19/78 07/10/78 554710 07/10/78 08/10/78 CLM 05/10/78 560402 08/21/78 08/21/78	5	25/78	MBS	97/60/50	\$681.09	06580	05/03/78	06/01/18	553746	91/90/90	06/16/78	08/15/18	0.0
CLM 05/18/78 \$494.09 57621 05/19/78 07/10/78 S54710 07/10/78 08/10/78 CLM 08/10/78 \$60402 08/21/78 08/21/78	02/0	3/18	J	05/10/78	\$500.00	51602	05/12/78	06/28/18	254309	06/28/78	01/15/18	08/03/18	0.0
CLM 98/10/78 \$84.52 57799 08/10/78 06/21/78 S60402 08/21/78 08/21/78	3	9//6	CLA	92/18/18	\$ 494.00	57621	05/19/78	07/10/18	S54710	07/10/18	08/10/78	08/11/18	0.0 <b>‡</b>
	8	9//60	¥ 3	9/10/18	\$84.52	66115	n8/10/78	08/21/78	201098	08/21/18	08/21/18	98/29/18	0.0

	COMENTS	•		
PAGE: 1 PROGRAM: WASFSR2			•62	
PAGE: PROGRA	DATE	COMP	/40/60	
	DATE OF	;	•61/h0/60 61/91/90	
<b>.</b>	CONTR No.		3334	
GOUDARD SPACE FLIGHT CENTER FOH!S.SAEETY.MORK REQUESTS REFORT	DATE OF PROCHT	REQUEST	07/19/79 3334	
GODDARD SPACE FLIGHT CENTER 115.SAEETX.MORK REQUESTS REPO	BY BULLDING PROCHT PROCHT D* REQUEST		07758	
GOODARD FON'S SAFET	EST.D OBLIGATED* ACTUAL**	COST	260.01	
	EST D ACTUAL P PESIGN		06/18/79* 09/14/79 09/28/79	
; ;	GIB CITE	4	002	
2	DESCRIPTION		69106/04/79 REPLACE SINK 660 08/15/79 INSTALL STAIRCASE 660 09/07/79 CANNECT YENT DAMPER	
DATE: 09/14/79. Butt.ding wurder 002	WORK ORG DATE REQ COD RECEIVED NO.		61/10/60 61/51/90 61/10/60	
NTE: 09, ULDING	000		691 099 099	
NA	WORK REQ NO.		7155 6 7307 6 7353 6	

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PACE PHUGRAS: MESMED, MESENEZ PHUGRAS: WESMED, WESENEZ	FR	·(CU#ZN15)	1 245,60		51579 475.00
PALL PRUGRAS: 1	ENGINEERING> < ACCOUNTING/BUNGET> <cunstruction> ENG BATE PROC. PROCURE 60 # 150 UR ACTUAL CUMPLETE COORD FR ENG CNTL # DATE PO # PO DATE ST LATE</cunstruction>	The same of the sa	11-13-78 01-15-79 04-12-79		SOF CHAPLETE USISS
	50 CK PO DATE		11-13-78	64-56-75	
<b>3</b>	MTHC/UMGET RE 60 # PO &		-78 2672	61-22-79 670561600 61-25-79 525215	
T CLNTER G bivisick Ilbirc	PROCU PROCU	:	92-01 00		:
PACL FLIGH LAGINELRIA TENS BY BU	PRUC.		21-22-10 0/0560500 10-26-78 2672	0705616	
GGDAKD SPACL FLIGHT CLNTER FACILITIES LIGIMERING DIVISION SAFETY ITENS BY BUILDING	HERING DATE FR ENG	66 22 34			;
	COORD COORD	3	;		:
	CODE DELD ROUM < DESCRIPTION> <	5931. 11-26-77 205 UOI VAR FAB SIGHS	681912-16-78205 061 VAR PROV STATE DATE	THE WILLIAM	
		KD1 VA	ful va		
	IVED CODE		50.5		!
1	REG 4 RECEIVED	11-58-11	12-16-78		
WURK DATE	. REQ 4	5931			

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

AS UF U6/04/79

PAGE PRUGRAN: WRSB5R

GOUDARD SPACE FLIGHT CENTER FACILITIES LIGINEERING DIVISION CODE 500/800 WORK REQUESTS IN BUILDINGS 3 AMD 14

PR ANDINI (CUMENIS)	13,199.52	36,605.78	14,851.94 H1979	14,298.65 051579	854.37	2,074.18		701.30	i,617.00	222.98		206.46					306.34	20,000.00	1,837.36	1,183.06	Andrews - March School Colonia (1988)
CTION> COPPLETE DATE	03-21-19	MAT 122778	952 COMPLETE 041979	903 COMPLETE (		04-27-79				04-27-79	i						05-15-79		04-25-79	03-14-79	en programme de la companya de la co
<pre><construction> ACTUAL CUMPLETE ST DATE DATE</construction></pre>	08-01-78	01-24-79 N	03-12-79	04-19-79	04-18-79	04-02-79			04-25-79	04-25-79							05-14-79	05-21-79	07-19-76	101-15-79	
DEL GRU DATE	07-19-78	12-13-78	03-05-19	3152 04-12-79	04-12-79	03-26-79			04-24-79	04-24-79		:					05-10-79		05-16-76	12-29-78	
	2495	2725	3068	3152	3145	3126			3167	3168							3192		0522	2112	
ACCOUNT ING/BUNGE T PROCURE DEL DATE ORD	07-14-78	11-28-78	61-19-79	04-10-79	03-28-79	03-22-79		05-16-79	U4-16-79	04-16-79		05-25-79		•			04-27-19	05-17-79	03-08-76	12-29-78	
PROCURLMENT CONTROL NO	57741	07539	07593	07649	070184300	070184200		671000200	070184800	070165100		071000100					070185300	16010	57417	070162000	
ENGINEERING> LNG UATE OORD FR ENG	06-21-78	08-29-78	61-11-10	04-03-79	03-23-79	03-21-79		05-10-79	04-04-79	04-13-79	,	62-01-50					64-25-79	05-14-79	03-07-78	12-28-18	
<pre>&lt; LNGIR LNG COORD</pre>	AUL	AUL	AUL	ADL	ADL	ADL	AUL	AUL	CLM	CLM	7	CLM	ADA	Apt		CLM	7.10	ADE	Saw	AUL	*
< DESCRIPTION>	POWER & A/C	ELEC SERV	POCC MUDS	PROVIDE POWER	MCDIFY ROOMS	CO30 MODIFY ROOM	COVER CABLES	<b>3</b>	SOUNDPROOF WALLS	SOUNDPROOF WALL	GEL INST YARISTORS	PAINT ROOM	RUN CABLES	INST. RECEPTACLE	INST RECEPTACLES	INST KEY LUCKS	INST SMOKE DETLETOR	PULL CABLES	PULL COAX CABLE	MANY TO AC SYST	
BLD ROOM	C030	VAR	£212	014 E212	E242 E242A		NOB7	N291	N087	N292		014 R291	8025	W021 C019	K021	N/N	028	VAR	2010		
81.6	410	OI4	¥10		014	<b>V10</b>	014	614	0.14	10	014	014	014	Þtő	014	014	603	500 614	614	114	;
ORG	ŞIÇ	510	òts	910	1115		115	1115	511	211	3	13	115	Tis .	511	511	512	215	512		
UATE	03-22-78	04-20-76 510 014 VAR	81-13-60	015_61-10-20	61-60-10	115 61-62-10	03-01-19	03-07-79	03-27-79	04-05-79	04-20-79	62-60-50	61-80-50	67-91-50	05-16-79	05-16-79	03-27-79	10-18-76	02-10-76	20 20 11	70-11
WORK REU /	£0.29	6274	6637	6921	9880	8069	6969	0/69	7011	7026	7063	leo!	7098	5111	7115	7116	7012	6682	5/19	10.27	2

JITES ENGINEERING DIVISION BUT NO FINAL PAYMENT HAS BEEN HADE	PURCH ORD # PURCH ORD DT COMPL DATE INVOICE C		11-10-76 09-20-79			S53736 . 06-06-78 . 09-07-78 1.155.va	0085 11-17-76 09-16-77 31, 147.53	2378 05-11-78 08-16-78	. 552071	S4155404-14-7807-16-761NSUE_FUNDS_083076	07-19-78 10-12-78 1.341.72	2092 09-02-77 08-21-76 1,478.77	2204 03-03-78 06-15-78	035108-31-77 02-16-78215,665.93SEE 4094	S30337 09-23-77 07-26-78 00-28-18 END CONTRACT	5-22777 02-02-78 04-12-78 7.757.75	330312 05-15-77 06-25-77 2h.57	1405 06-05-78 10-03-78 1,270-28 AREA HOT AVAIL	06-05-78 10-03-78 1,270.28		06-13-70
WORK REQUEST SYSTEM - FACIL. DELIVERY ORDERS AND PURCHASE ORDERS	GER CODE (** DESCRIPTION *** DUILDING IS (*** ROOH IS *** DESCRIPTION ** DUILDING IS (*** ROOH IS *** DII ODE IS OF THE ODE IS O	510 PULL CABLES VAR VAR	500 INST PROJ SCREEM 023 S225	230 OFF SPACE REMOVATION 016 300	683 MINT ANTENNA MOUNTING 005 MOÉS WOTEA WOTE	600 OFFICE HODIFICATIONS 021	0254	BOOK.	SURE 007	- Old Coos	Sono and	WAD			PAVE STORAGE AND	PAINT FILE CAB.	WOOR WOOR	. 200	300	200	ENCLOSURE 300 CUT

AS OF 06/05/75

# GODDARD SPACE PEIGHT CERTER FACILITIES ERGINELRING DIVISION MGN. CONTROL LOG

PALL PRUCRAM: LACAM in Addri (CUMALRIS) 436.86 475.05 680.50 136.18 8,334.27 1,113.10 U3-14-77 U9-U8-77 ZU, OUG. UU RALPH PROCES INV 12/25 132.70 218.43 1,500.00 330.00 UI-17-77 U9-16-77 6,555.46 RALPH PRUCES INV 12/29 19,581.46 1.980.60 3,200.00 30.66 269.99 476.35 13,574.04 1,433.00 11,275,56 56, COLPLE 050275 10-23-78 665 COPPLIE 651679 CUPPLET <--CUNSINUCTION--> ACTUAL CUMPLETL ST BATE DATE 11-01-78 05-24-79 08-21-78 04-24-79 02-02-79 10% CURPLETE MAT US1579 3 US-26-7E **US-26-78** 87-32-6n 30-55-JB 01-18-79 92-06-60 69-30-76 U9-29-78 03-21-77 U4-12-79 11-17-76 02-10-77 113-11 **69-26-78** 82-92-60 05-12-78 FO LATE U7-U8-76 Ub-21-78 61-69-79 05-26-79 U4-19-78 ACCOUNTING/BULCE I

LATE TO DO 5

PROCURE PO 6 32 525214 525214 2596 2596 Se0432 566432 500 **CO27** 03-14-77 0057 599 2300 2800 2152 2372 2,760 2372 2312 23372 US-25-76 97-92-60 69-25-78 09-30-16 01-05-79 09-30-16 67-11-76 02-11-20 04-13-77 **U9-14-78** 10-14-76 U5-U5-7b 37-53-30 02-16-77 U9-14-76 Ub-Us-7b 01-09-75 Us-26-79 U5-14-77 070380300 071060300 575600001 57525001 5/5600002 675640001 PRUC. Chil. 07193001 07583 67584 67583 57525 19870 57723 07057 57526 07195 399/0 57218 1,7560 07564 67426 LNGINEERING --> 03-04-77 09-29-76 U6-26-76 FR LRG 08-16-76 U9-26-76 02-06-78 U1-24-77 MAB Ĭ 3 3 2 ₹ 3 019---- UOZ-- INSTL PUMLK WATER UR 300 OFF SPACE KLNOVATION 117 OFFICE MODIFICATIONS bus buse talled tals), walls <-- DESCRIPTION 113A SCUNDPROOF LOOTH 023 E330 VENT. SYST Ì BLL ROOM 30R 3 07=13-76 . 720 . 200 120 570 3 3 3 3 3 3 550 98.2 **9** ... :3 563 11-01-76 745 uail Received 05-07-16 05-04-76 08-16-76 UP-27-76 06-19-76 4402-02 4402-01 4402-03 4402-04 4450-01 4450-02 REU . 4556 ... 1555-01 4687-02 4667-01 4610-04 4719-UI 4616-02 4616-05 4616-61 ž 10-085 4450 4087 4719 4816 4545

6.0/1.56

TO THE THE PROPERTY OF THE PRO

U4-24-16

05-21-16 2522

57514

## ATTACHMENT B SAMPLE OPERATOR INSTRUCTIONS

#### OPERATING PROCEDURES - WRSFOG1, WRSMR1

### PRINTING WRSFOG1 - WORK REQUESTS IN DESIGN PRINTING WRSMR1 - SUMMARY OF WORK REQUESTS IN DESIGN

1. Insert diskettes in the following manner:

Program #2 disk in Drive #1
WRSDATA disk in Drive #2
WRSWORK1 disk in Drive #3
WRSWORK4 disk in Drive #4.

- 2. Key in WRSFOG1 and depress the Return Key.
- 3. Q1 will display on the screen:

'ENTER C FOR CONT FORMS, S FOR 1 PAGE'

Key in "C" and depress the Return Key if you have continous forms in the printer.

Key in "S" and depress the Return Key if you are using single pages in the printer.

4. Q1 will now display:

'ENTER R FOR A RANGE, A FOR ALL RECORDS'

Key in "A" if you wish to print all work requests in design and depress the Return Key. Proceed to step 5.

Key in "R" if you wish to print only a specific range of work requests in design and depress the Return Key. If you select this option, the Q1 will display on the screen:

'ENTER BEGINNING WRCH DESIRED'

Key in the first work request control number you wish to see printed and depress the Return Key. Q1 will then display on the screen:

- 'ENTER ENDING WRCH'

Key in the last work request control number you wish to see printed and depress the Return Key.

If you have entered an invalid range of WRCN's, the Q1 will display an error message on the screen. Depress the Return Key and go back to the beginning of step 4.

5. Q1 will now begin selection of records from the WRSDATA that meet the above specified conditions. Selected records are then copied to a work area on disk WRSWCRK1. When the selection is complete, the Q1 will print the I/O statistics.

- 6. Q1 will now sort the selected records into project coordinator sequence and print the first report.
- 7. Following the WRSFOG2 report, the WRSMR1 will automatically print (the report is only one page).
- 8. When the report is completed, the Q1 will display on the screen:

'Q1/LITE AT YOUR SERVICE'

#### RESTARTING:

If the paper jams or the ribbon breaks while the report is printing, do the following:

- 1. Hit the red reset button on the side of the machine.
- 2. Pop out all disks from the drives.
- 3. Turn the machine off.
- 4. Re-align the paper or replace the ribbon.
- 5. Key in WRSFCG2 and depress the Return Key.
- 6. The report should begin printing immediately, followed by WRSMR1.

If a problem occurs before the report has printed, you must rerun the job starting with step 1.

#### OPERATING PROCEDURES - WRSTFR

### TRANSFERRING COMPLETED OR CANCELLED WORK REQUESTS FROM THE ACTIVE FILE (WASHIST)

- 1. Execute backup procedures for WRSDATA and WRSHIST.
- 2. Insert the disks in the following manner:

Program #1 in Drive #1
WRSDATA in Drive #2
WRSHIST1 in Drive #3
WRSWORK3 in Drive #4

- 3. Key in WRSTFR and depress the Return Key.
- 4. Q1 will display on the screen:

'ENTER C FOR CONT FORMS, S FOR 1 PAGE'

If you have continuous forms in the printer, key in "C" and depress the Return Key.

If you have single page forms in the printer, key in "S" and depress the Return Key.

5. Q1 will now display on the screen:

'REMOVE PROGRAM DISK - INSERT WRSHIST2
HIT RETURN WHEN DISK IS READY'

Operator must replace the program disk with WRSHIST2 in Drive #1 and then depress the Return Key.

Q1 will now begin transferring records. The total process will take about 20 minutes, so be patient.

6. When all records have been transferred, Q1 will print out all I/O statistics and then display on the screen:

'YOU MUST REMOVE THE WRSDATA DISK AND INSERT THE PROGRAM DISK #1 --ALSO--

HIT RETURN TO SORT WRSHIST1
YOU MUST SORT WRSHIST2 UPON COMPLETION
OF SORTING THE WRSHIST1 FILE!

The operator can remove the WRSDATA and insert the Program #1 disk and depress the Return Key to sort the WRSHIST1 file.

Upon completion of the sort, the operator <u>must now type</u> in "SORT WRSHIST2 WRSWORKT" to sort the change order file.

Upon the completion of the second sort, both history files must be removed from the drives.

- 7. Remove all disks from all drives.
- 8. Execute backup procedures for WRSDATA and WRSHIST using two different backups from those in step \*1.

Upon completion the Q1 will display on the screen:

'Q1/LITE AT YOUR SERVICE'

A new Work Request Number Log should be printed for both the active (WRSDATA) and the inactive (WRSHIST) files, according to the procedure for running the log.