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Plots of CY71-79 Demands and Returns  
for  
a Sample of Sacramento ALC D062 Items

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by  
W. Steven Demmy

May 1981

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20. RECOMMENDATIONS (UNCLASSIFIED)			
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## Introduction:

If the underlying pattern of demands is known, forecasting is an easy task. For example, if it is known that demands will increase at the rate of 20 units a month, it is easy to compute the number of units to be demanded one month, two months, or any number of months in the future. Further, if it is known that a design change will result in a decrease in the failure activity for specific items of, say, 10 units per month, it is easy to combine this fact with the trend projections to come up with an accurate estimator of future demands. As another example, if it is known that demands are proportional to flying activity, and if it is also known that flying activity is going to double in a coming period, one would simply double the forecasted rate for that period.

Unfortunately, in real world systems the underlying pattern of demand is only known by hindsight. Although hindsight is completely accurate, it is not useful as a forecasting tool. The challenge to designers of large scale inventory systems is to develop forecasting methods which utilize limited samples of demand information to obtain relatively accurate estimates of future demands.

In this paper, we present plots of the demands and returns for one hundred D062 items managed by the Sacramento Air Logistics Center (ALC), during the 1970's. The specific items presented

are a very unscientific sample. The plots were developed as a by-product of a separate study, and consequently may be unrepresentative of the demand histories for Air Force Logistics Command D062 items as a whole. However, the author has observed many similar D062 item plots from a number of other samples, and it is believed that the set of items presented here does provide a representative picture of the demand and returns patterns to be found in the history records of the D062 system. In the paper, we do not attempt to identify any common pattern among the items presented. Rather, we present this information so that other analysts may test their own ideas concerning the patterns of demands which characterize AFLC EOQ items.

#### Data Sources:

In the appendices of this report, we present plots of demands and returns for 100 D062 items. We also present plots of the flying programs for the primary aircraft supported by each of these items. In the following paragraphs we discuss the sources from which this data was obtained.

Aircraft Flying Programs. The D062 System maintains a weapon code for each EOQ item. This code identifies the primary aircraft supported by the specific EOQ item. Since it is often assumed that demand is proportional to flying activity, we have grouped

the items presented in this paper by weapon code, and we present plots of both the item demand activity and the associated aircraft program activity during the 1970s. Items are also grouped by demand activity class. In this paper, we define two demand activity classes. We refer to items which had average demands in CY71-72 in excess of \$5000/yr as "high activity" items, while items with less than \$5000/yr of demands in CY71-72 are called "low demand" items. For example, Appendix A presents plots of program activity for the F104 aircraft and for all F104 items in our sample which had demands during CY71-72 that exceeded \$5000/yr. Appendices B, C, and D present similar plots for high activity items associated with F/FB111, C121, and T33/F-80 aircraft, respectively. Finally, appendices E through I present similar plots for "low activity" items; i.e. items with average annual demands between \$1/yr and \$5000/yr during the CY71-72 interval.

Within each Appendix, we first present plots of the observed and predicted aircraft flying program associated with the given item set. Actual Program hours were obtained from the G033J system from output product A-G033J-PAR-M1-MMO. This information was collected for the interval July 1970 through June 1979. Predictions of flying program activity which were made each quarter throughout the 1970s were obtained from the K004 data system, using report K004.D81A RCS: NR-LOG-LR(AR)7208. Reference 2 presents the detailed data for actual and predicted program

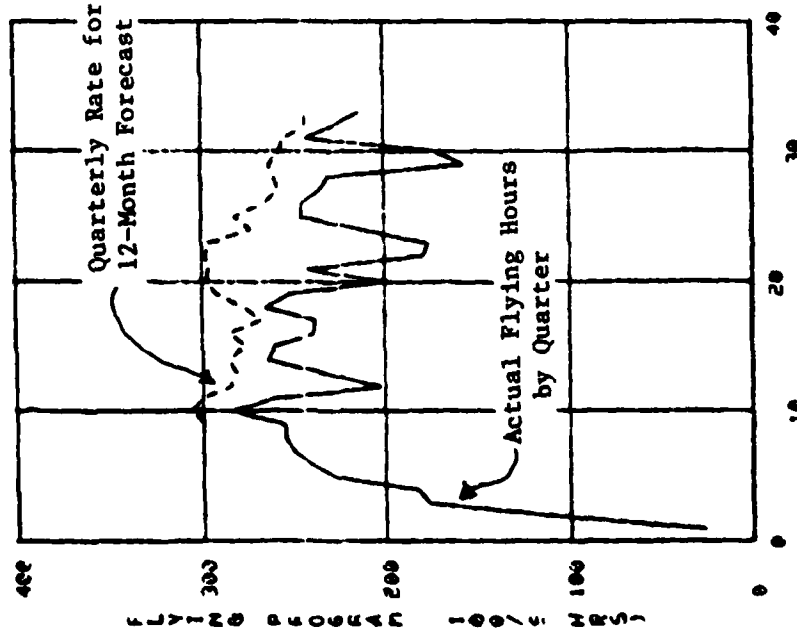
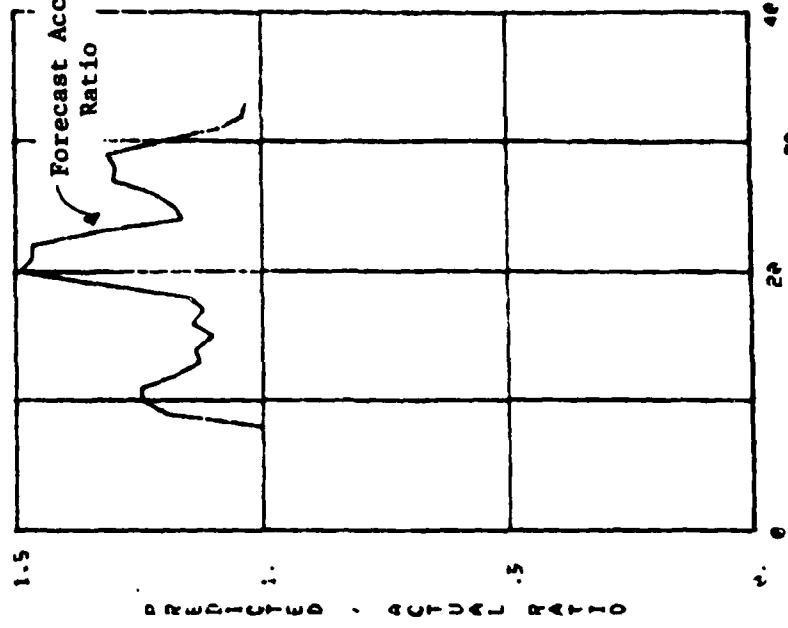
activity collected in this process. In addition, Reference 2 presents plots of both the actual and predicted program activity, and plots of the ratio of predicted to actual flying programs for each aircraft associated with the INSSIM Data Bank. We refer to this latter ratio as the "forecast accuracy ratio." The plots of program activity presented in this paper were obtained directly from this reference.

Figure 1 illustrates the flying program plots presented in the appendices. For example, Figure 1A plots both the actual and predicted F/FB111 flying programs for the interval CY71-79, while Figure 1B plots the ratio of predicted to actual program activity. Since predicted program activity was not available prior to CY73, we set the forecast accuracy ratio equal to 1.0 for the interval CY71-73. For this specific aircraft, predicted flying programs tended to consistently exceed the actual programs which were eventually flown. This is not always the case, however. Reference 3 presents an analysis of flying program prediction accuracy observed during the CY73-79 interval.

D062 Demand Data:

The item data presented in this paper was obtained from two samples of Sacramento ALC items obtained from the INSSIM Data Bank. This data bank currently contains demand histories for thousands of D062 items managed by the Sacramento, Oklahoma City and Warner

Figure 1. Comparisons of Actual, and Predicted F/FB111 Flying Programs.



QUARTER NUMBER, WHERE 1 = JAN 71

QUARTER NUMBER, WHERE 1 = JAN 71

(1B)

(1A)

TF111 FLYING PROGRAM FOR CY 71 - 80

Note: Quarter 1 = Jan-Mar. 1971.

Robins ALCs for the interval CY71-79, a total of 38 quarters of demand data.

The INSSIM Data Bank was constructed over a period of years by AFLC/XRS by Mr. Fred Conway and Mr. Armin Rubbert. In building this data set, several problems were encountered regarding the availability of data in past years and the readability of the "old" tapes in the data bank. As a result, the following rules were adopted in building the historical data files:

1. Sales, Transfer, and FMS demands were combined to provide a single demand total per quarter.
2. Non-recurring demands were not available and, thus, were not included in the data bank records.
3. Sales returns and Transfer returns were combined to provide a single value for servicable returns by quarter.
4. Lead time and inventory management codes were obtained from the records corresponding to the first quarter of FY75.
5. On-hand and on-order assets were obtained from the oldest available D062 stock status record. This corresponded to the first quarter of FY74.

6. Items with Special Codes of C, D, E, I, M, X, U, or N in any fiscal year were deleted from the file. Requirements for items with these codes are computed using manual methods, and consequently were not candidates for inclusion in the INSSIM Data Bank.

7. Items with incomplete demand histories were also deleted from the Data Bank. That is, an item was included in the INSSIM Data Bank only if demand history records were present in the D062 system for each of the fiscal years in the interval CY71-79. Hence, this rule eliminates from consideration all items which either enter or leave a specific ALC's data files during the CY71-79 interval, or which were transferred from one ALC to another during the interval. Items which were switched from management under the D062 computation system to the D041 system, or vice versa, would also be eliminated by this rule.

The Items in this Report:

In a search for improved forecasting methods, we constructed two item samples from the Sacramento ALC records in the EOQ Data Bank. We constructed two item samples; a high activity sample and a low activity sample. The specific rules used to construct these samples are as follows:

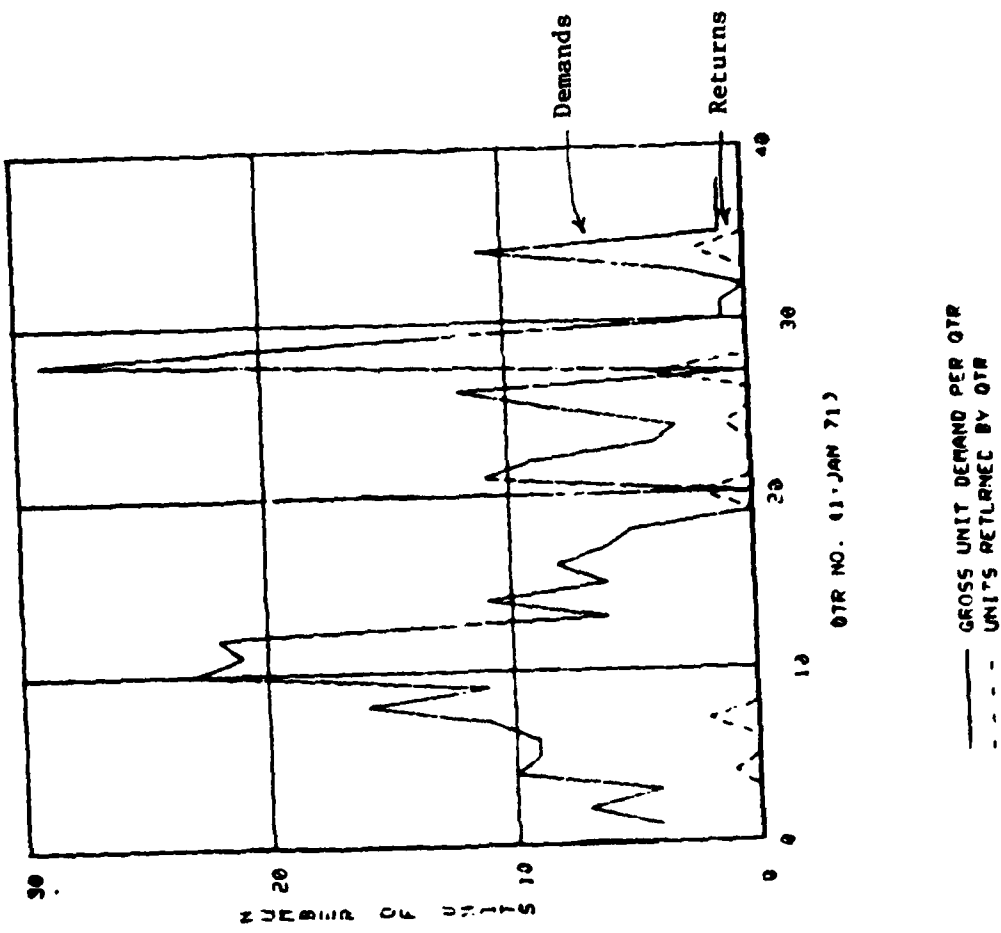
<u>Sample</u>	<u>Description</u>
SM·H	Items with average annual dollar demands for the CY71-72 interval in excess of \$5000/yr.
SM·L	Items with average annual dollar demands in CY71-72 that exceed \$1/yr, but which are less than \$5000/yr. Only 50% of the items that met this criteria were included in our output file.

Note that this data selection rule ensured there was at least one unit of demand during the CY71-72 interval for all items included in each sample. Consequently, our sample does not include any items which had no demands during the CY71-72 interval but which may have had demands in subsequent periods. New items which entered the Air Force inventory after the end of CY72 would thus be excluded from our data sample.

A total of 630 items were obtained for the SM·H data file, and a total of 6601 items were obtained for the SM·L data file. The plots presented in this paper were obtained from the first 50 items associated with each data file. For example, Figure 2

presents a plot of the demands and returns for the first D062 item associated with the F/FB111 aircraft and item sample SM-H. In this figure the solid line represents the number of units demanded by quarter, while the dashed line represents the number of serviceable returns to the system. As another example, Figure 3 presents similar plots of the total demands and returns for the first F/FB111 item in the low activity sample SM-L.

As noted above, this paper presents an unscientific sample of 100 Sacramento D062 items. The characteristics of the individual items included in the sample are presented in Tables I and II. Table I presents the distribution of sample items by weapon code. As shown in Table I, the majority of items in this paper are associated with the F104 aircraft. The F104 was a major aircraft managed by Sacramento ALC at the beginning of the 1970s. Table II describes the distribution of the sample of items by Federal Stock Class (FSC). As shown in the table, several FSCs are represented, but FSC 1560--Aircraft Structural Components--is the most common category.



ITEM DATA  
 1  
 SM 1055  
 BJ 00265032  
 NINM EA  
 UN CONTR. LETTER  
 INOUN 4  
 MGT 3242 8  
 RT2734  
 COST 805.85

QTR	DEMANDS	RETURNS
1	7	2
2	21	3
3	0	0
4	0	0
5	29	4
6	1	0
7	0	2
8	0	0
9	0	0
10	0	0
11	6	0
12	11	0
13	19	0
14	1	0
15	0	0
16	0	0
17	0	0
18	0	0
19	0	0
20	0	0
21	0	0
22	0	0
23	0	0
24	0	0
25	28	15
26	0	0
27	0	0
28	0	0
29	0	0
30	0	0
31	0	0
32	0	0
33	0	0
34	0	0
35	0	0
36	0	0
37	0	0
38	0	0
39	0	0
40	0	0

Figure 2. Demands and Returns for the First F/FB111 Item in Sample SM.H.



Table I  
Distribution of Sample Items by Weapon Code

<u>Code</u>	<u>Weapon</u>	<u>Number of Items</u>		
		<u>SM.H</u>	<u>SM.L</u>	<u>Total</u>
107W	M16 Atlas	--	13	13
3032	F104	10	23	33
324Z	F/FB111	21	9	30
941Z	A1 Sky Raider	--	1	1
955Z	C121	5	--	5
968Z	T33	<u>14</u>	<u>4</u>	<u>18</u>
	<b>Total</b>	<b>50</b>	<b>50</b>	<b>100</b>

Table II

## Distribution of Sample Items by Federal Stock Class

Federal Stock Class	Number of Items		
	<u>SM.H</u>	<u>SM.L</u>	<u>Total</u>
1005 Guns, Through 30 mm	--	1	1
1055 Launches, Pyrotechnic	1	--	1
1095 Miscellaneous Weapons	--	6	6
1270 Aircraft Gunnery Fire Control Components	7	16	23
1280 Aircraft Bombing Fire Control	--	4	4
1420 Guided Missile Components	--	1	1
1430 Guided Missile Remote Control Systems	1	5	6
1440 Launchers, Guided Missile	--	6	6
1450 Guided Missile Handling and Servicing Equipment	--	2	2
1560 Aircraft Structural Components	<u>41</u>	<u>4</u>	<u>50</u>
	50	50	100

### The Appendices:

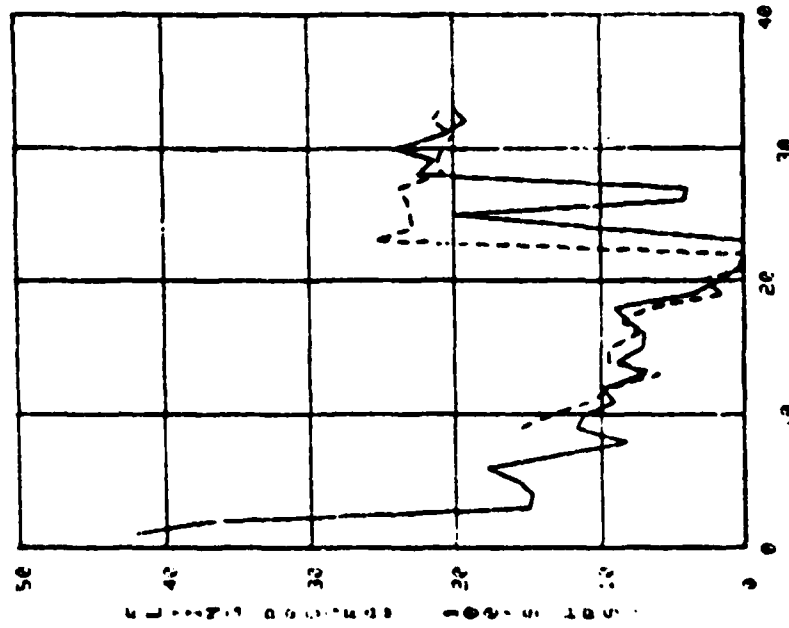
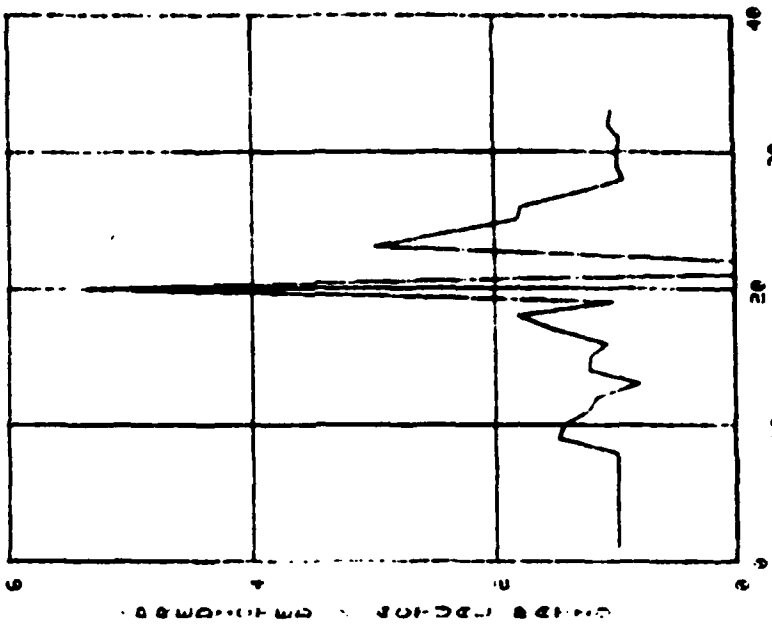
As noted above, the appendices to this paper present plots of program activity for individual aircraft, and the associated plots of EOQ demands and returns. For example, Appendix A presents a plot of the predicted and observed flying program activities for the F104 aircraft during the CY71-79 interval. This aircraft was phased out of the USAF inventory in the middle of the 1970's, but became a Foreign Military Sales system in the late 1970's. This explains the increase in both the predicted and actual program activity for this aircraft in the late 1970s. Following the plot of F104 program activities is the plot of all items from the SM-H sample which carried the aircraft code 303Z. As noted above, this code indicates that the item was used primarily in support of the F104 system. As seen in Table I, ten of the 50 SM-H items carried a weapon code of 303Z. Appendices B, C, and D present similar plots for SM-H items associated with the F/B111, C121 and T33/F-80, respectively. Next, Appendices E through I present similar plots of program activity and item demands associated with the first 50 items in sample SM-L. Finally, Appendix J presents the FORTRAN programs which may be used to generate the plots similar to those in this paper. These routines may be utilized with the CREATE Computing System at Wright-Patterson AFB. They require the use of Tektronics graphics terminal to produce the plots.

Summary:

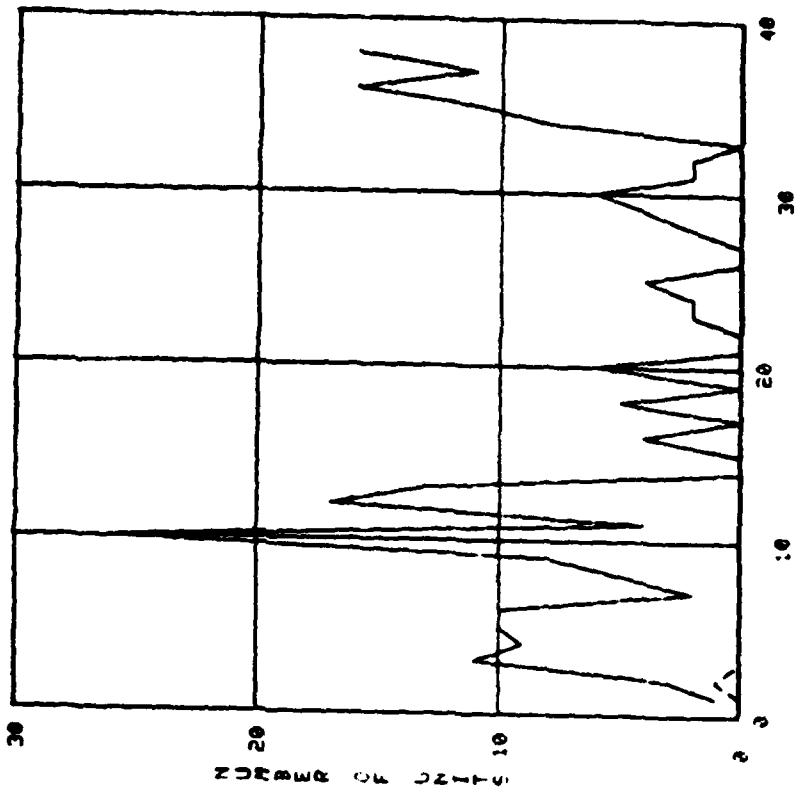
If the patterns of EOQ demand activity are known, forecasting future item demands is a simple task. Unfortunately, determining an appropriate pattern is not easy. This paper presents plots of the demand and return activity for a number of AFLC EOQ items for the interval CY71-79. Plots of the predicted and observed flying program activity for associated aircraft are also presented. It is hoped that this information may be of value to analysts who seek to develop new pattern recognition and forecasting techniques.

### References

1. Denny, W. Steven, Statistical Characteristics of Forecasting Techniques for D062 Economic Order Quantity Items, Technical Report 79-02, Decision Systems, 2125 Crystal Marie Drive, Beavercreek, Ohio 45431, May 1979, 128 pp.
2. Denny, W. Steven, Actual and Predicted Flying Programs for Selected USAF Aircraft for the Period July 1972-June 1979, Working Paper 80-01, Decision Systems, 2125 Crystal Marie Drive, Beavercreek, Ohio 45431, June 1980, 54 pp.
3. Denny, W. Steven, A Comparison of Forecasted and Actual Flying Programs for CY1973-1979, Working Paper WP-80-06, Decision Systems, 2125 Crystal Marie Drive, Beavercreek, Ohio 45431, October 1980, 44 pp.



F104X  
FLYING PROGRAM FOR CY 71 - 80



QTR NO. (1-JAN 71)

----- GROSS UNIT DEMAND PER QTR  
 - - - - - UNITS RETURNED BY QTR

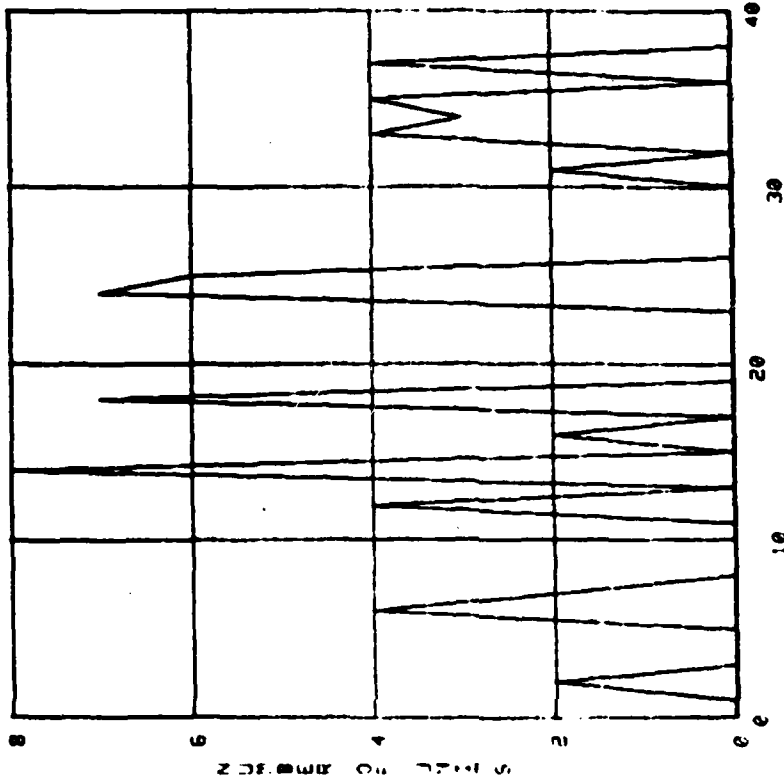
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 Y:IN EA  
 YOUN CLASS OP-1  
 TST 2  
 Y:GT34 2000 3  
 COST 31.10

DEMANDS	RETURNS
1 3	0 0
2 4	0 0
3 5	0 0
4 6	0 0
5 7	0 0
6 8	0 0
7 9	0 0
8 10	0 0
9 11	0 0
10 12	0 0
11 13	0 0
12 14	0 0
13 15	0 0
14 16	0 0
15 17	0 0
16 18	0 0
17 19	0 0
18 20	0 0
19 21	0 0
20 22	0 0
21 23	0 0
22 24	0 0
23 25	0 0
24 26	0 0
25 27	0 0
26 28	0 0
27 29	0 0
28 30	0 0
29 31	0 0
30 32	0 0
31 33	0 0
32 34	0 0
33 35	0 0
34 36	0 0
35 37	0 0
36 38	0 0
37 39	0 0
38 40	0 0

ITEM DATA  
 NO. 3  
 ALC SM  
 PNC CB 1270  
 NIIN 007949128  
 LP EA  
 MOUN PURAL ONE  
 PGT 2  
 PTGT34 3032 R  
 CCS- 556.50

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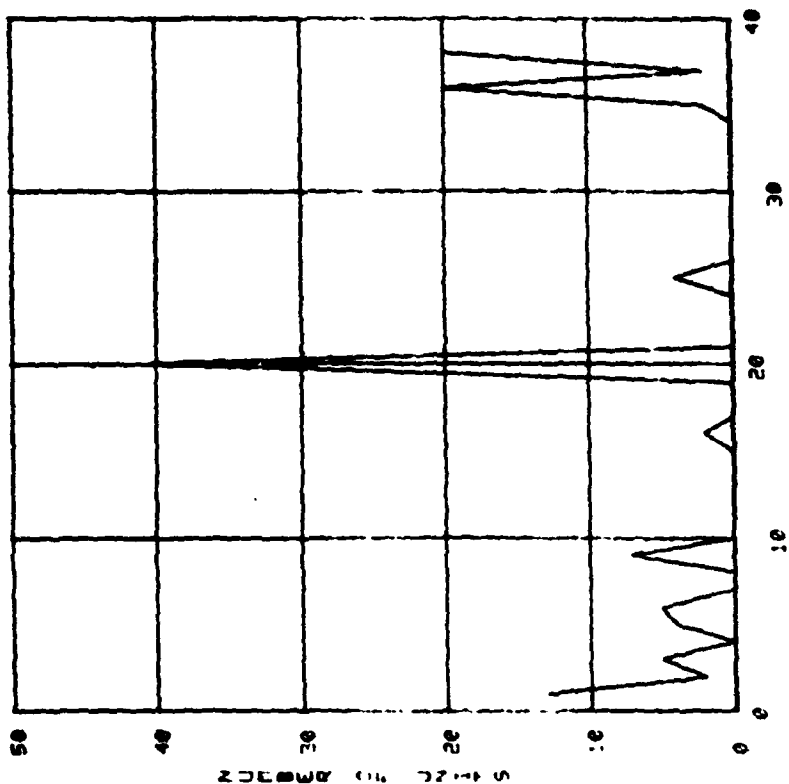


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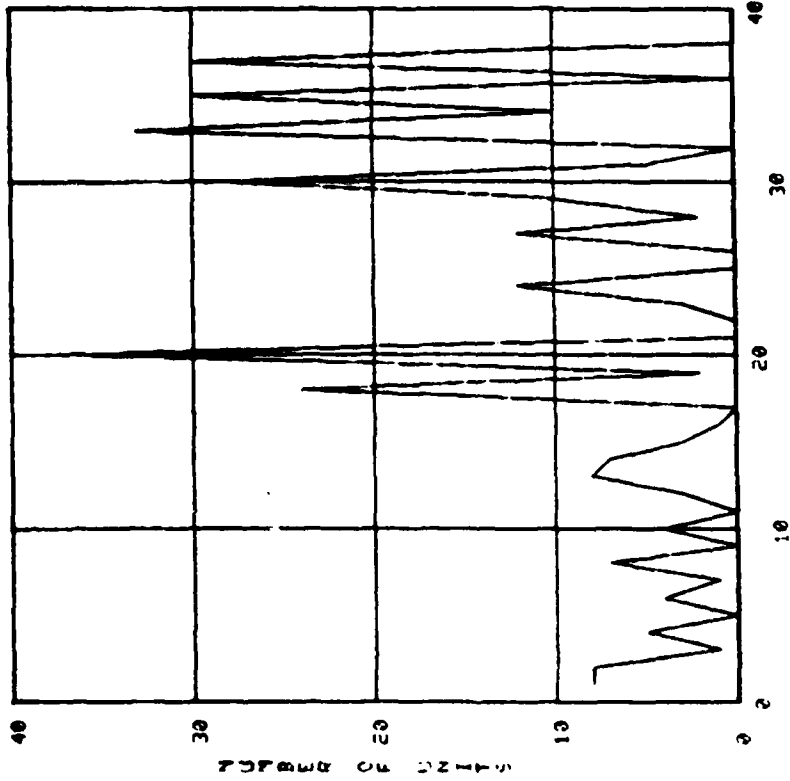


----- GROSS UNIT DEMAND PER QTR  
 ..... UNITS RETURNED BY QTR

ITER DATA

NO. 7  
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 PNC 1270  
 NIIN 208915372  
 LM EA  
 NOUN ACCELEROME  
 PGT 2  
 MYGT34 3022 B  
 COS 47E.47

ITER	DEMANDS	RETURNS
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2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0
8	0	0
9	0	0
10	0	0
11	0	0
12	0	0
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15	0	0
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18	0	0
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25	0	0
26	0	0
27	0	0
28	0	0
29	0	0
30	0	0
31	0	0
32	0	0
33	0	0
34	0	0
35	0	0
36	0	0
37	0	0
38	0	0
39	0	0
40	0	0



QTR NO. (1-JAN 71)

----- GROSS UNIT DEMAND PER QTR  
 - - - - - UNITS RETURNED BY QTR

ITEM DATA

NO. 8  
 ALC SM  
 WPC CB 1270  
 WJIN 009926296  
 JN EA  
 NOUN ELECT TUBE  
 NGT E  
 NTGT34 3032 B  
 COST 225.25

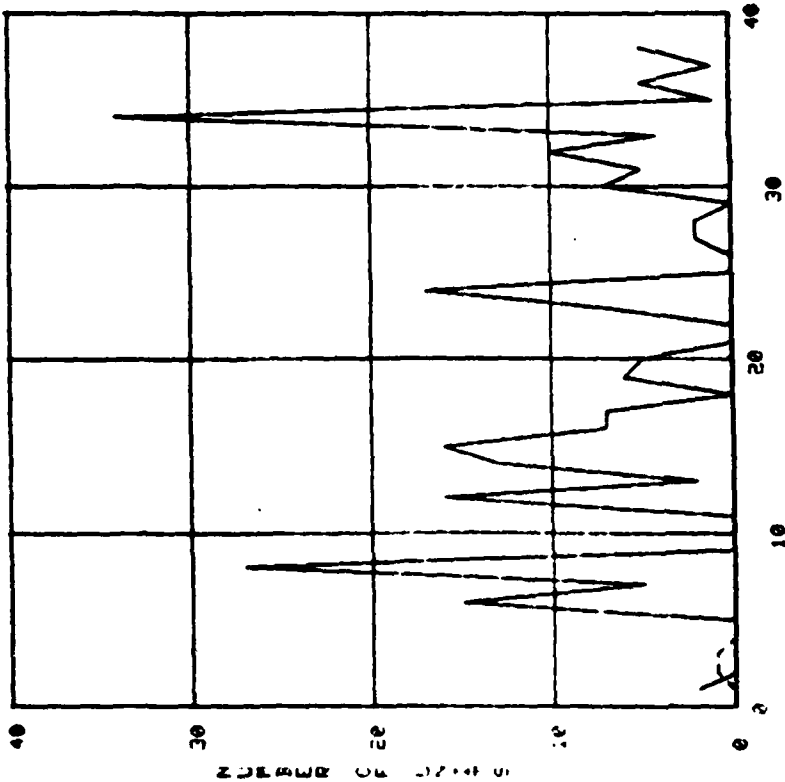
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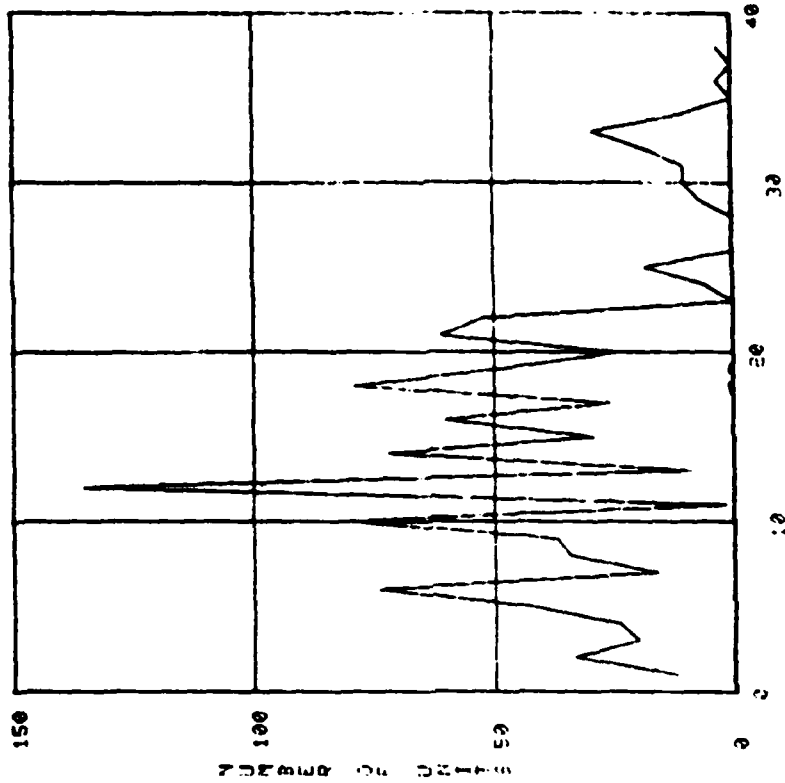
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 MTM 001027903  
 JFM EA  
 YOLM SHAPT  
 TGT 3  
 TGT 3032 3  
 TGT 124.3  
 COST

DEMANDS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
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QTR NO. (1-JAN 71)

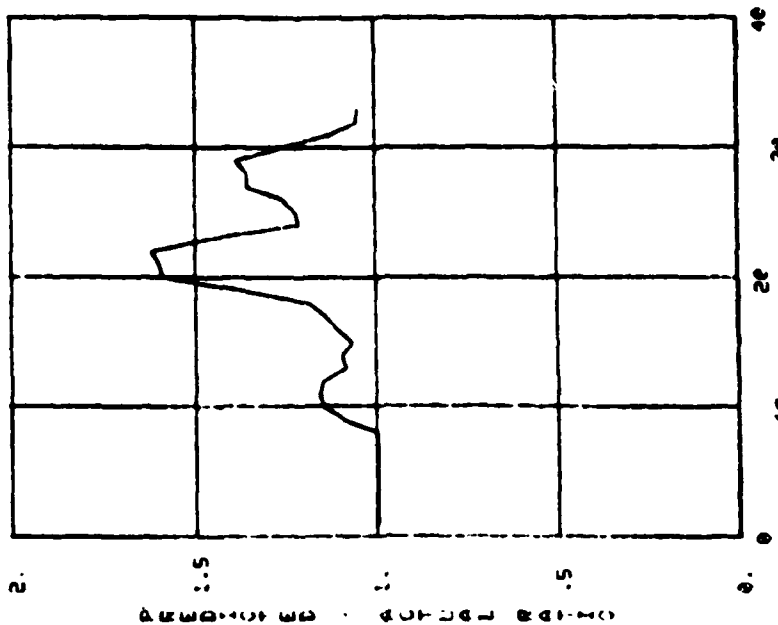
----- GROSS UNIT DEMAND PER QTR  
 - - - - UNITS RETURNED BY QTR



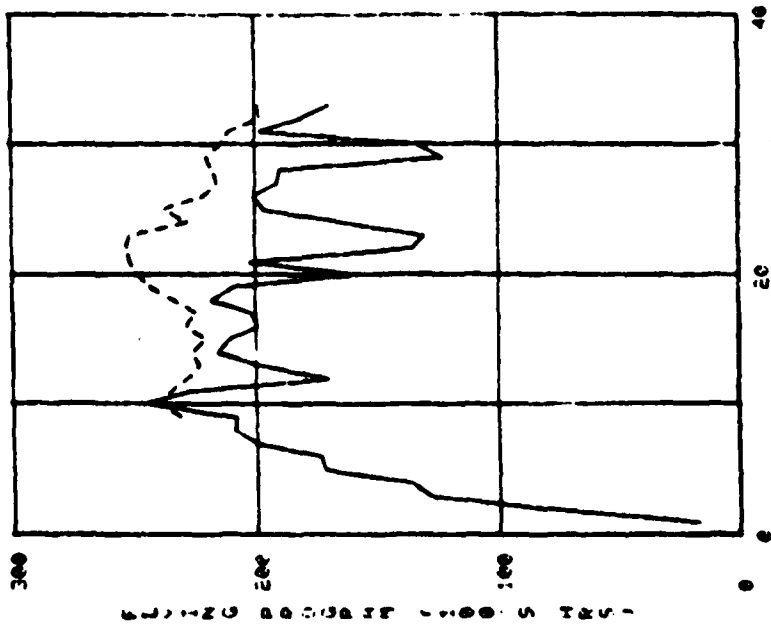
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 LR EA  
 NOUN SHRCJDA55  
 PGT 1  
 PT024 3032 B  
 CCS 33.35

QTR	DEMANDS	RETURNS
01	00	00
02	00	00
03	00	00
04	00	00
05	00	00
06	00	00
07	00	00
08	00	00
09	00	00
10	00	00
11	00	00
12	00	00
13	00	00
14	00	00
15	00	00
16	00	00
17	00	00
18	00	00
19	00	00
20	00	00
21	00	00
22	00	00
23	00	00
24	00	00
25	00	00
26	00	00
27	00	00
28	00	00
29	00	00
30	00	00
31	00	00
32	00	00
33	00	00
34	00	00
35	00	00
36	00	00
37	00	00
38	00	00
39	00	00
40	00	00



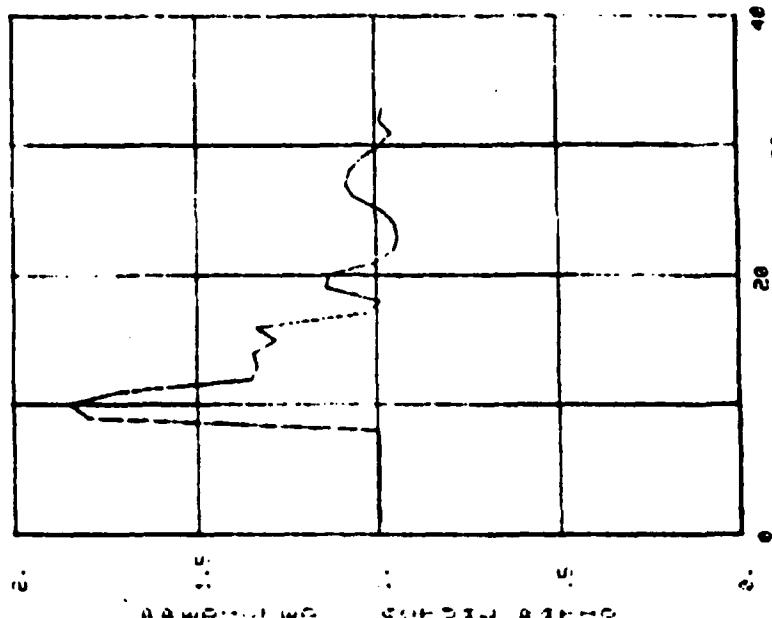
QUARTER NUMBER, QUERE 1 - JAN 71



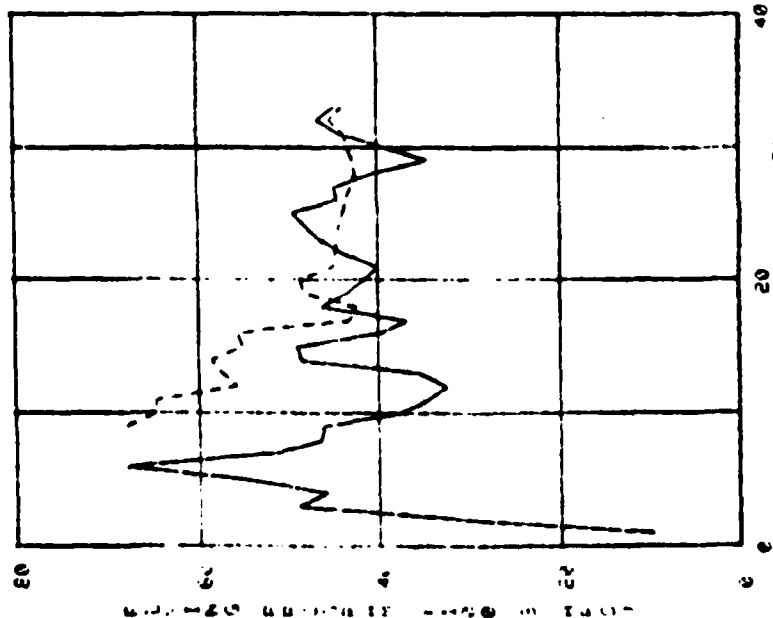
QUARTER NUMBER, QUERE 1 - JAN 71

F111B

FLYING PROGRAM FOR CY 71 - 80



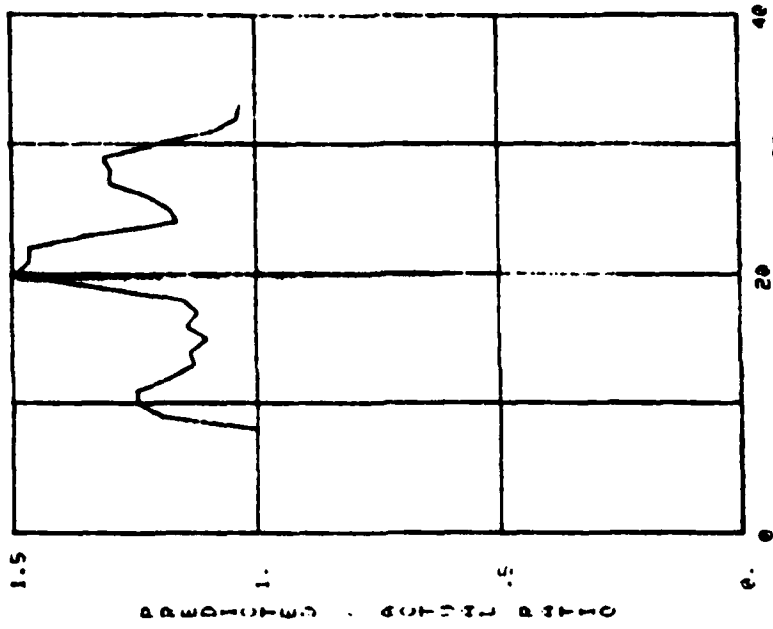
QUARTER NUMBER. JUNE 1 - JAN 71



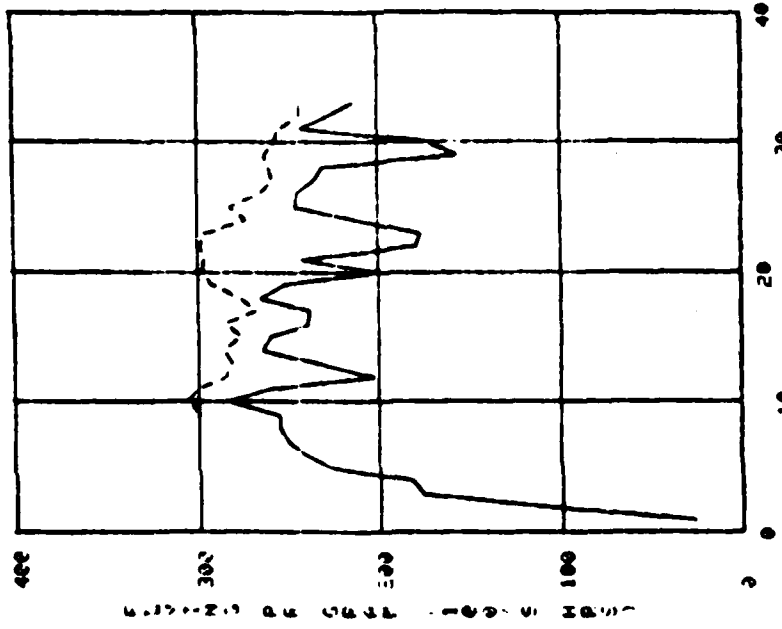
QUARTER NUMBER. JUNE 1 - JAN 71

FB113

FLYING PROGRAM FOR 71 - 80



QUARTER NUMBER, QUERE 1 - JAN 71



QUARTER NUMBER, QUERE 1 - JAN 71

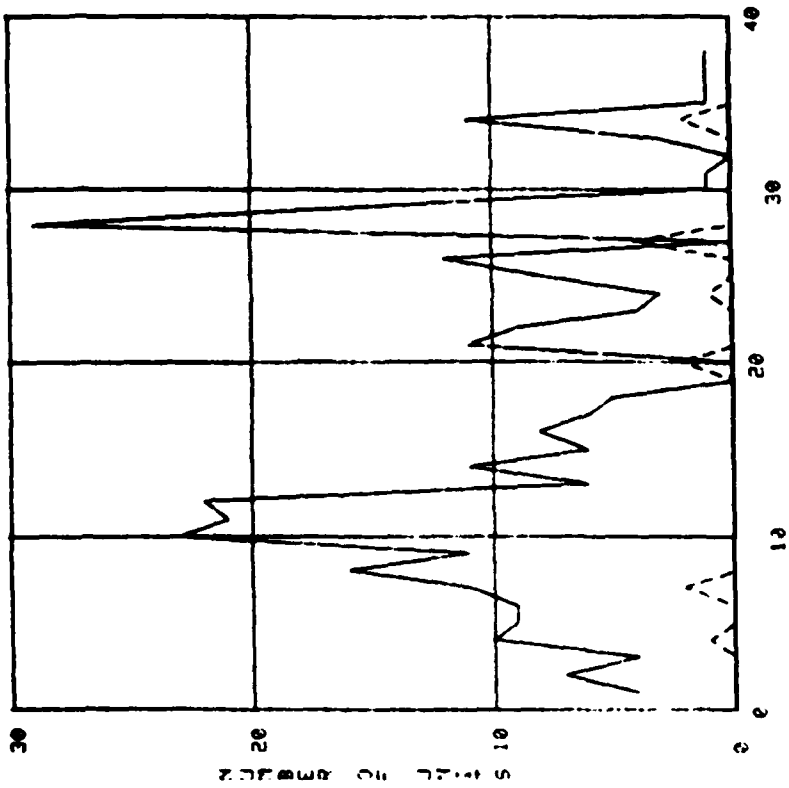
7F118

FLYING PROGRAM FOR CV 71 - 80

ITEM DATA  
 NO. 1  
 ALC SF 1055  
 PNC DJ 002265032  
 NIIN EA  
 LN INTRVLONTR  
 NOJN 4  
 PGT 3242 2  
 PTC34 805.85  
 COST

DEMANDS	7	4	10	9	9	9	9	9	9	9	9	9	9	9	9
11	23	2	22	0	0	0	0	0	0	0	0	0	0	0	0
6	5	0	0	11	0	0	0	0	0	0	0	0	0	0	0
8	12	0	25	11	0	0	0	0	0	0	0	0	0	0	0
3	11	1	1	0	0	0	0	0	0	0	0	0	0	0	0

RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

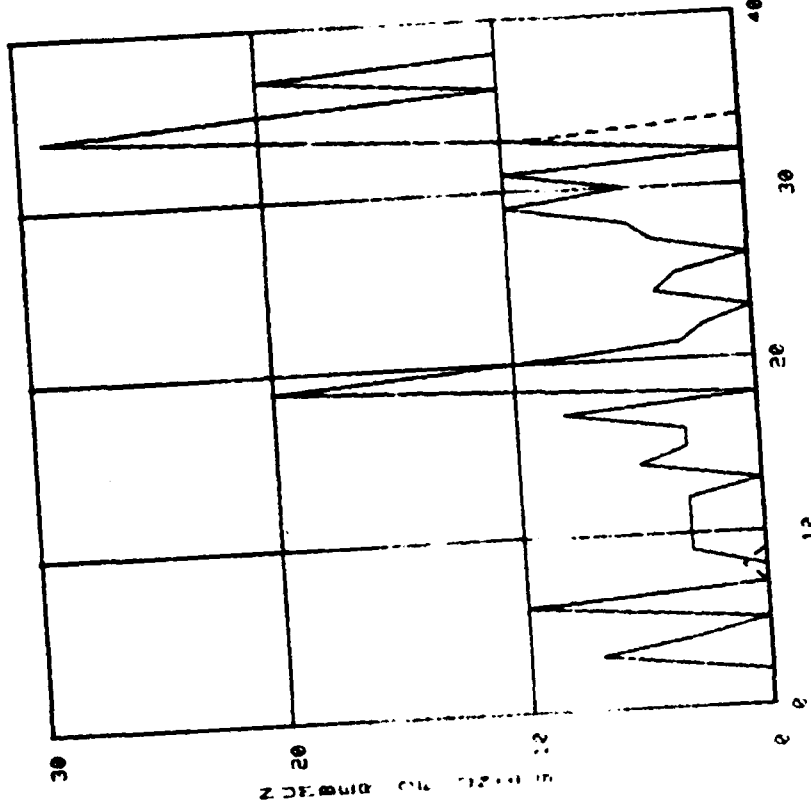


QTR NO. (1=JAN 71)

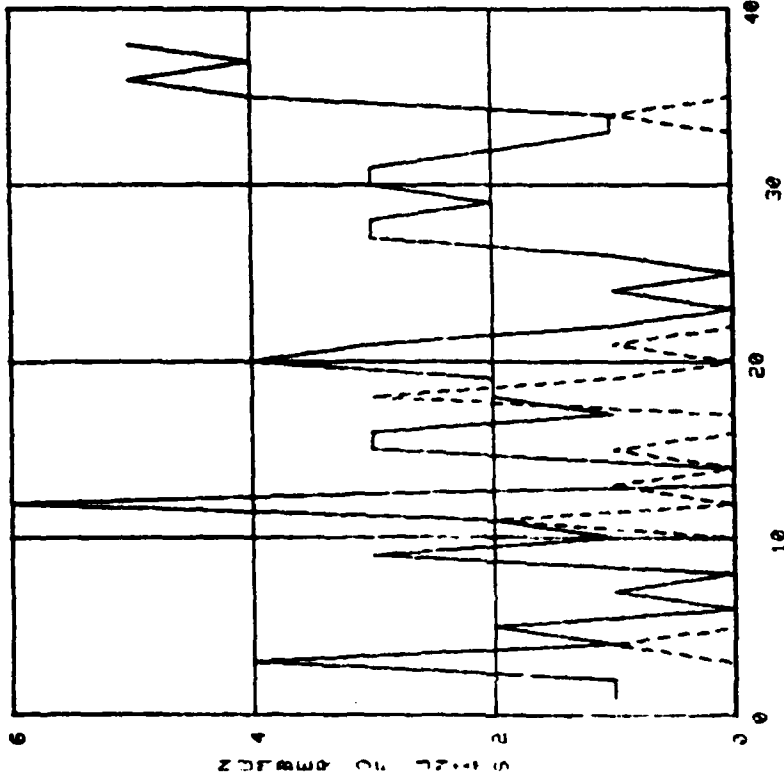
----- GROSS UNIT DEMAND PER QTR  
 - - - - - UNITS RETURNED BY QTR

ITEP DATA  
 NO: 9  
 ALC ST 1430  
 PRC 22455500  
 NIN 24  
 LM 105510 4  
 MOJN 3  
 PGT 24  
 COS 2245 533.52

DEMANDS	1	2	3	4	5	6	7	8	9
0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0



----- GROSS UNIT DEMAND PER QTR  
 - - - - - UNITS RETURNED BY QTR



QTR NO. (1-JAN 71)

----- GROSS UNIT DEMAND PER QTR  
 - - - - - UNITS RETURNED BY QTR

ITEM DATA

NO. SM 23  
 ALC BJ 1550  
 MHC 009500797  
 NIN EA  
 UH EACT 453Y  
 MOJN 3  
 PGT 324Z B 955.50  
 FIG 34  
 COS

DEMANDS	1	2	3	4	5	6	7	8	9	10
1	1	1	1	1	1	1	1	1	1	1
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0

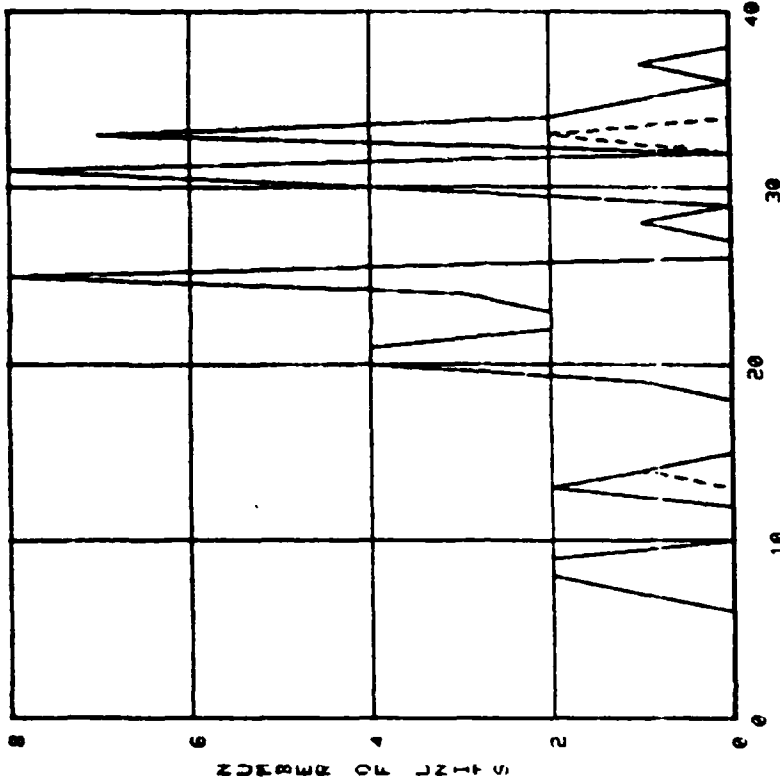




ITEM DATA

NO. 26  
 ALC BJ 1560  
 MFC 00786461  
 NIIN EA  
 MOUN STRAKE  
 MGT 1  
 NTGT34 3242 B  
 COST 2348.32

DEFANDS	0	1	2	3	4	5	6	7	8	9	0
	0	0	0	0	0	0	0	0	0	0	0
RETURNS	0	0	0	0	0	0	0	0	0	0	0



--- GROSS UNIT DEMAND PER QTR  
 - - - UNITS RETURNED BY QTR

ITEM DATA

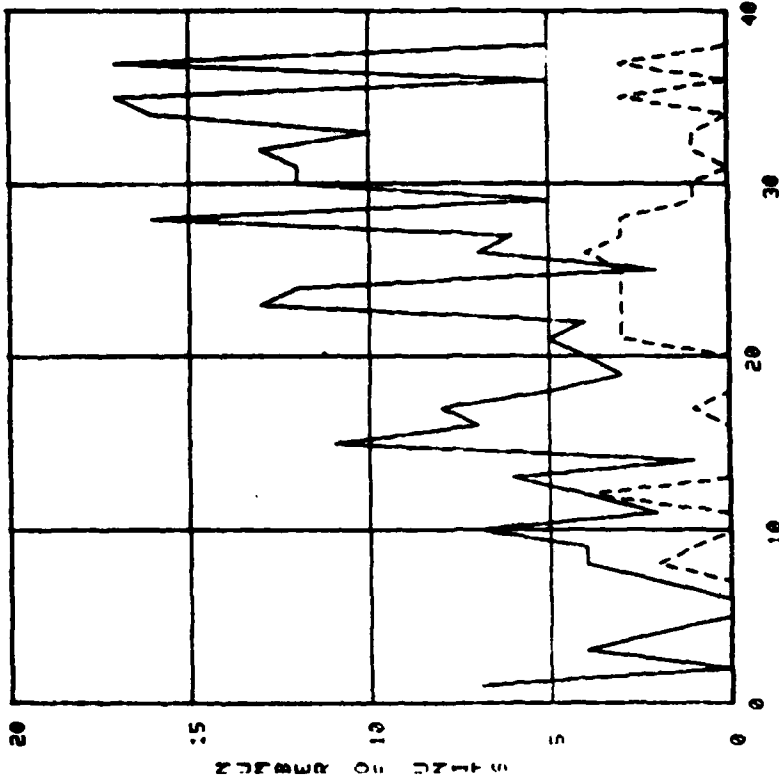
NO. 27  
 ALC SM  
 PNC BJ 1560  
 NIIN 00012544  
 LM EA  
 MOJN FA:RING HV  
 PGT 1  
 MTGT34 3242 B  
 COST 405.50

DEMANDS

7	0	4	2	0	4	4	2	0	0	2	0	4
8	5	3	4	4	3	3	4	0	0	0	0	0
9	7	5	5	12	12	12	12	5	0	0	0	0
10	16	17	15	17	15	15	15	17	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0

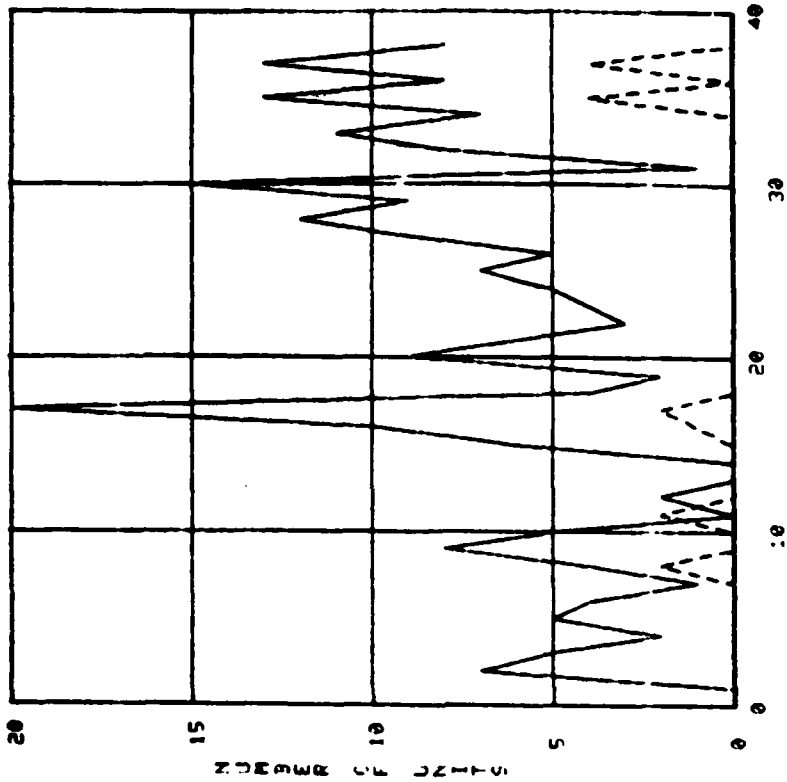
RETURNS

7	0	0	0	0	0	0	0	0	0	0	0	0
8	1	0	0	0	0	0	0	0	0	0	0	0
9	1	0	0	0	0	0	0	0	0	0	0	0
10	3	4	0	0	0	0	0	0	0	0	0	0
11	1	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0



OTR NO. (1-JAN 71)

- - - - - GROSS UNIT DEMAND PER QTR  
 - - - - - UNITS RETURNED BY QTR



ITEM DATA

NO. 28  
 ALC 57  
 PNC BJ 1560  
 NIN 000847293  
 UP EA  
 MOUN TUBE  
 MGT 1  
 RYGT34 3242 B  
 COST 489.00

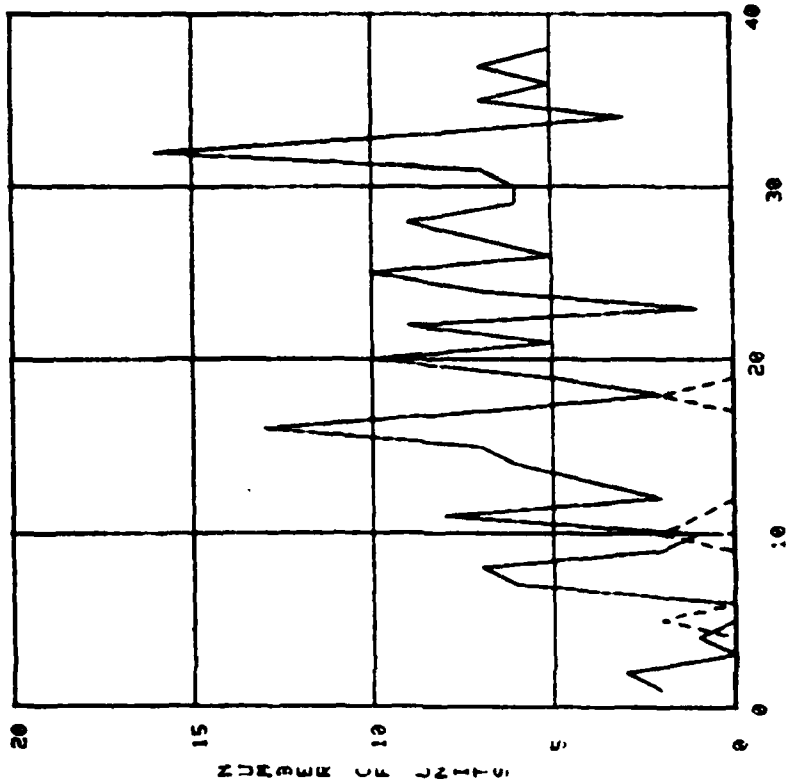
DEMANDS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40			
DEMANDS	0	5	2	3	2	3	12	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

QTR NO. (1-JAN 71)

----- GROSS UNIT DEMAND PER QTR  
 - - - - - UNITS RETURNED BY QTR







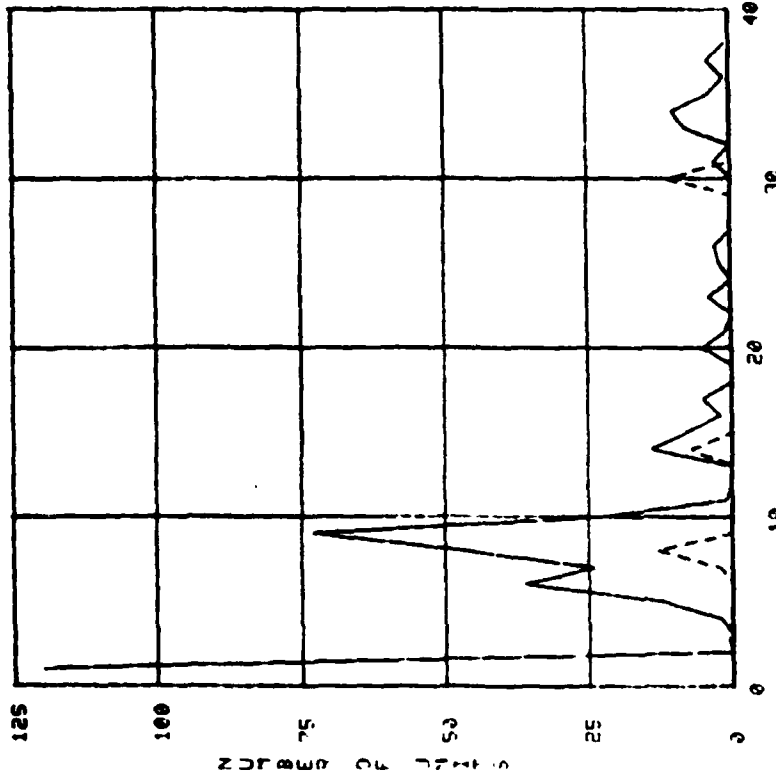
QTR NO. (1-JAN 71)

----- GROSS UNIT DEMAND PER QTR  
 - - - - - UNITS RETURNED BY QTR

ITEM DATA

NO. 36  
 ALC SM  
 P. :550  
 MNC 00000000  
 NIN EA  
 UR MANUAL REL  
 NGUN 1  
 PGT 3242 P 366.70  
 RTGT34  
 COST

DEMANDS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



QTR NO. (1 JAN 71)

----- GROSS UNIT DEMAND PER QTR  
 - - - - - UNITS RETURNED BY QTR

ITEM DATA

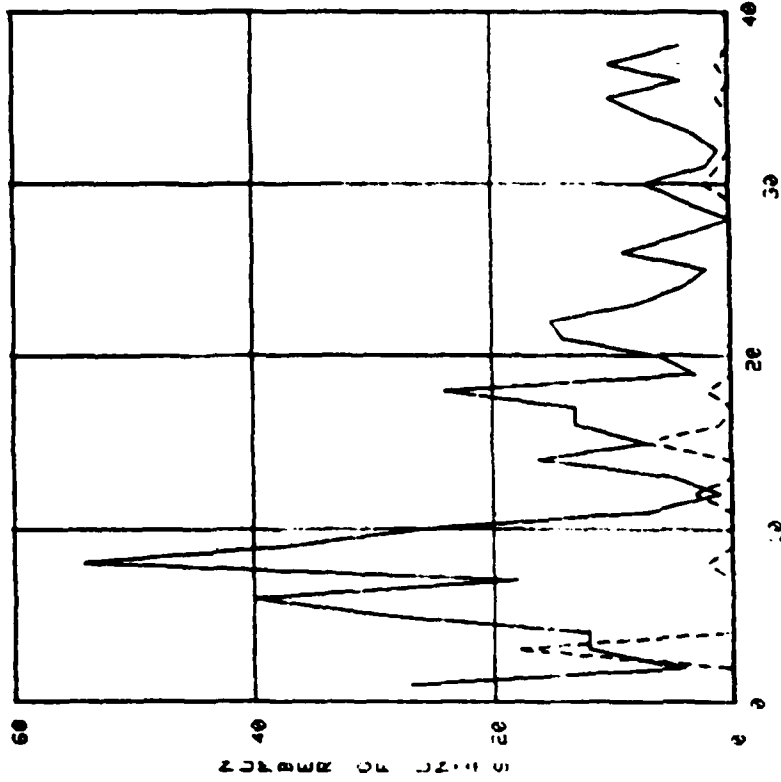
NO. 37  
 ALC SM 1560  
 NYC BJ 00092862  
 MIIN EA  
 UN LINK WSSV  
 MOUM I  
 PGT 3242 F 31.27  
 MTC34  
 COST

DEMANDS	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40				
120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
173	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ITEM DATA

NO. 38  
 ALC SM  
 MPC BJ 1560  
 MIIM 00088293  
 JF EA  
 YOLN BRACKET  
 TGT 224Z B 82.91  
 TGGJ34  
 CCST

DEMANDS	4	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



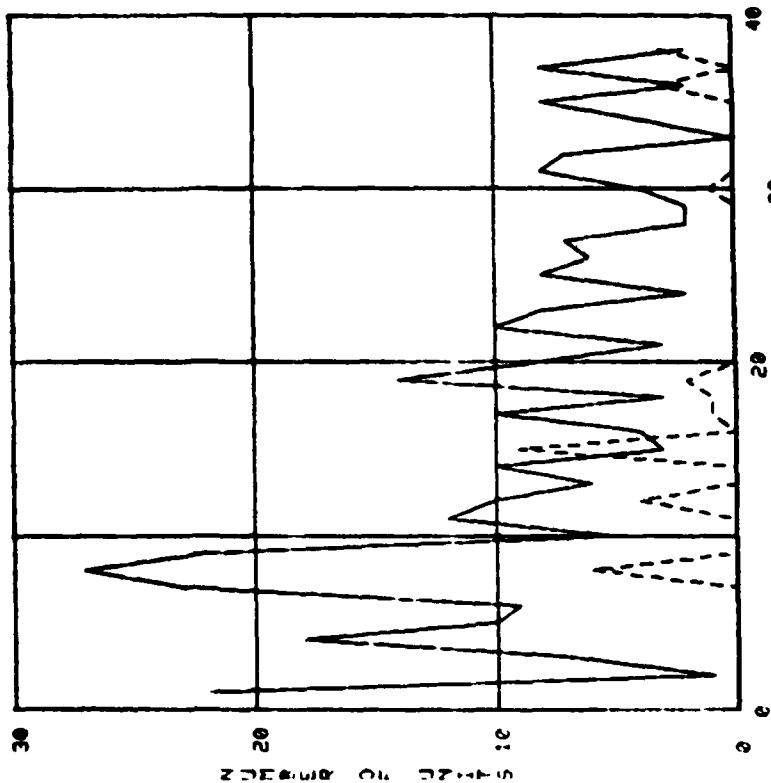
QTR NO. (1-JAN 71)

--- UNITS RETURNED BY QTR  
 --- UNITS DEMAND BY QTR

ITEM DATA

NO. 39  
 ALC SJ  
 PNC BJ 1560  
 MIN 00088829  
 UR EA  
 NOUN BRACKET  
 PG. 1 324Z B 78.70  
 COST

DEMANDS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
DEMANDS	1	5	3	6	4	0	1	12	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RETURNS	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

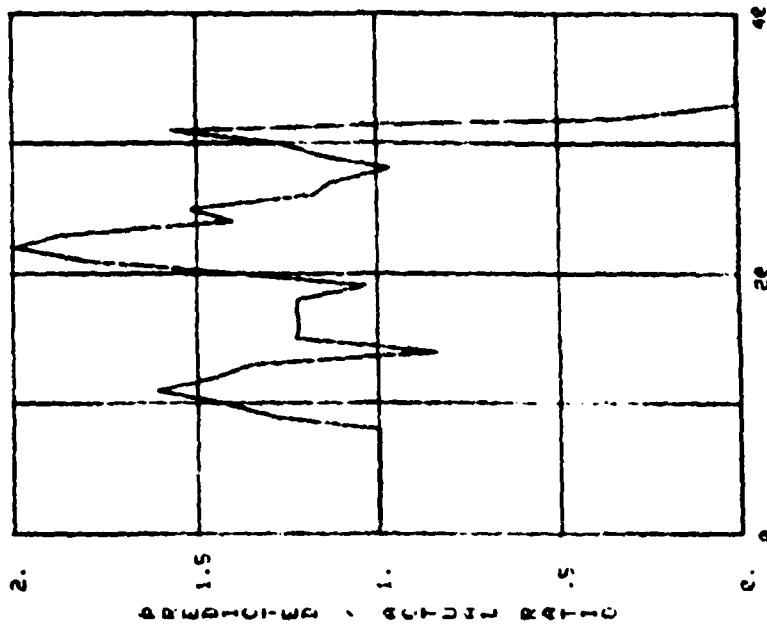


QTR NO. (1-JAN 71)

----- GROSS UNIT DEMAND PER QTR  
 - - - - - UNITS RETURNED BY QTR



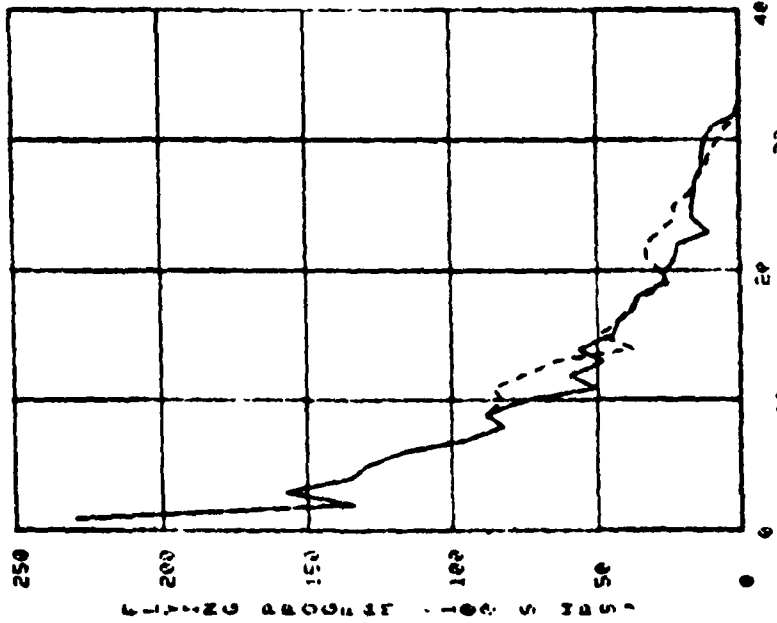




QUARTER NUMBER, QUARTER 1 - JAN 71

11218

FLYING PROGRAM FOR CV 71 - 80



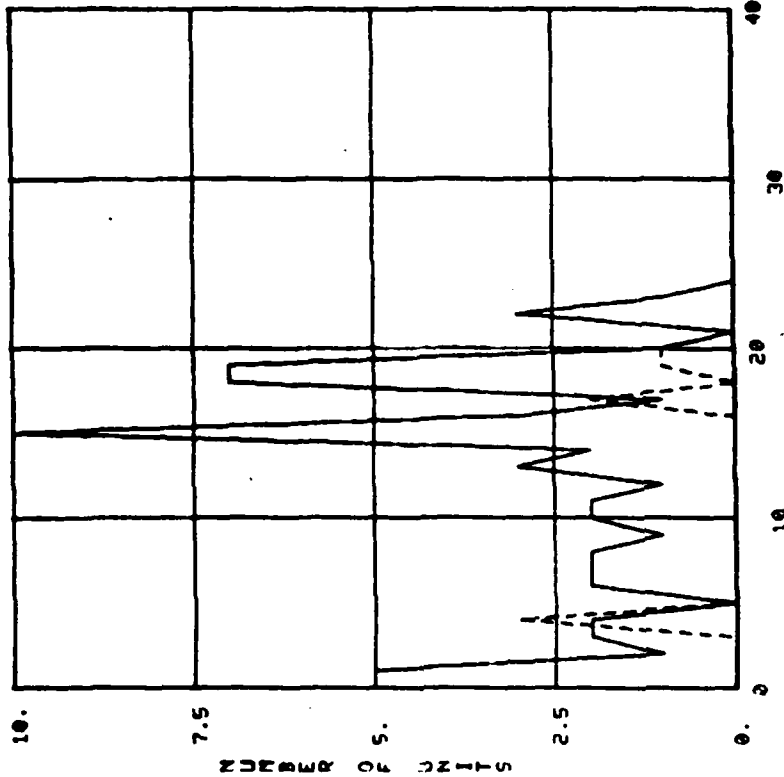
QUARTER NUMBER, QUARTER 1 - JAN 71



ITEM DATA

NO.	12
ALC	SM
MPC	LF
MTM	000255650
UP	EA
MOUN	PANEL ASSY
MGT	1
MTGT34	9552 P
COST	480.21

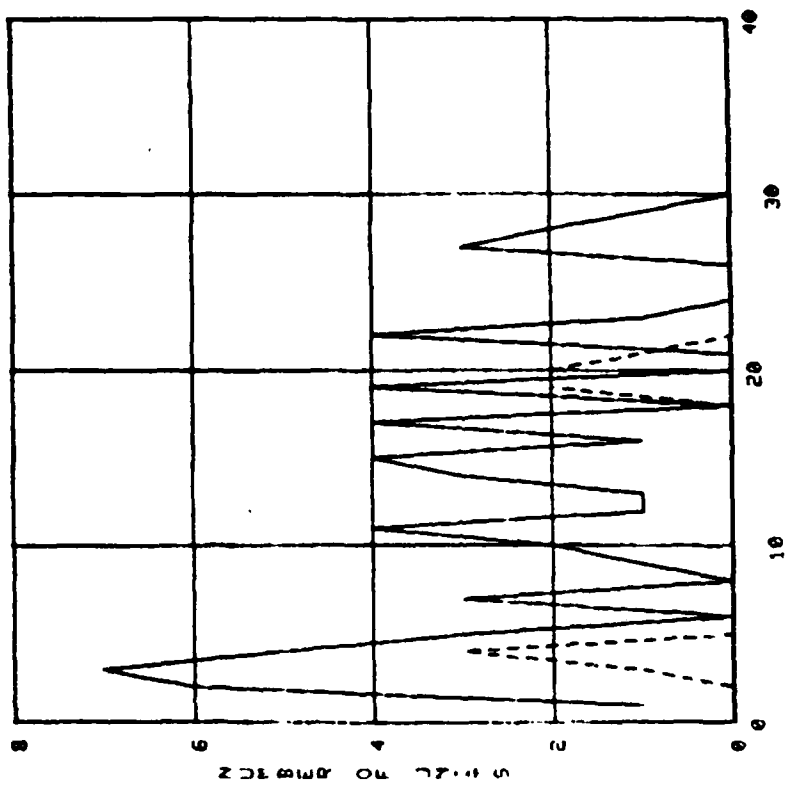
DEMANDS	1	2	2	2	2	3	3	2	3	3	3	0
	2	7	7	1	1	0	0	0	10	1	0	0
	0	0	0	0	0	0	0	0	0	0	0	0
RETURNS	0	0	0	0	3	0	0	0	0	0	0	0
	0	0	0	0	1	0	0	0	0	0	0	0
	2	0	0	1	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0



QTR NO. (1-JAN 71)

----- GROSS UNIT DEMAND PER QTR  
 - - - - - UNITS RETURNED BY QTR





OTR NO. (1-JAN 71)

----- GROSS UNIT DEMAND PER QTR  
 - - - - - UNITS RETURNED BY QTR

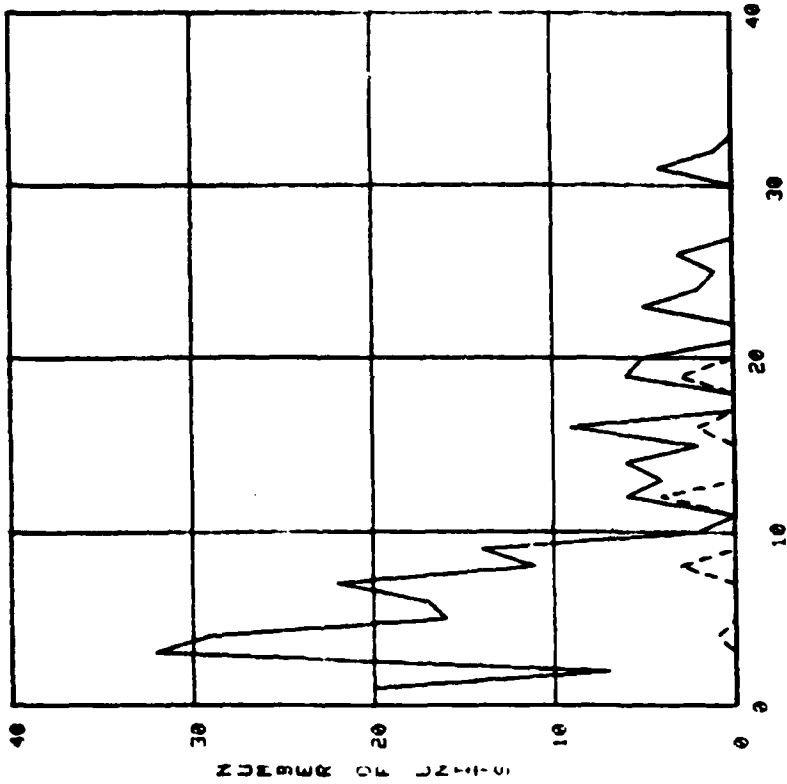
ITEM DATA

NO. 21  
 ALC SF 1560  
 MNC LF 2684-1985  
 N:TN SA  
 UR PANEL  
 NOUN 2  
 MG 9552 R 456.02  
 MGI34  
 COST

DEMANDS	7	5	3	2	1	0
1	0	0	0	0	0	0
2	0	0	0	0	0	0
3	0	0	0	0	0	0
4	0	0	0	0	0	0
5	0	0	0	0	0	0
6	0	0	0	0	0	0
7	0	0	0	0	0	0
8	0	0	0	0	0	0
9	0	0	0	0	0	0
10	0	0	0	0	0	0
11	0	0	0	0	0	0
12	0	0	0	0	0	0
13	0	0	0	0	0	0
14	0	0	0	0	0	0
15	0	0	0	0	0	0
16	0	0	0	0	0	0
17	0	0	0	0	0	0
18	0	0	0	0	0	0
19	0	0	0	0	0	0
20	0	0	0	0	0	0
21	0	0	0	0	0	0
22	0	0	0	0	0	0
23	0	0	0	0	0	0
24	0	0	0	0	0	0
25	0	0	0	0	0	0
26	0	0	0	0	0	0
27	0	0	0	0	0	0
28	0	0	0	0	0	0
29	0	0	0	0	0	0
30	0	0	0	0	0	0
31	0	0	0	0	0	0
32	0	0	0	0	0	0
33	0	0	0	0	0	0
34	0	0	0	0	0	0
35	0	0	0	0	0	0
36	0	0	0	0	0	0
37	0	0	0	0	0	0
38	0	0	0	0	0	0
39	0	0	0	0	0	0
40	0	0	0	0	0	0

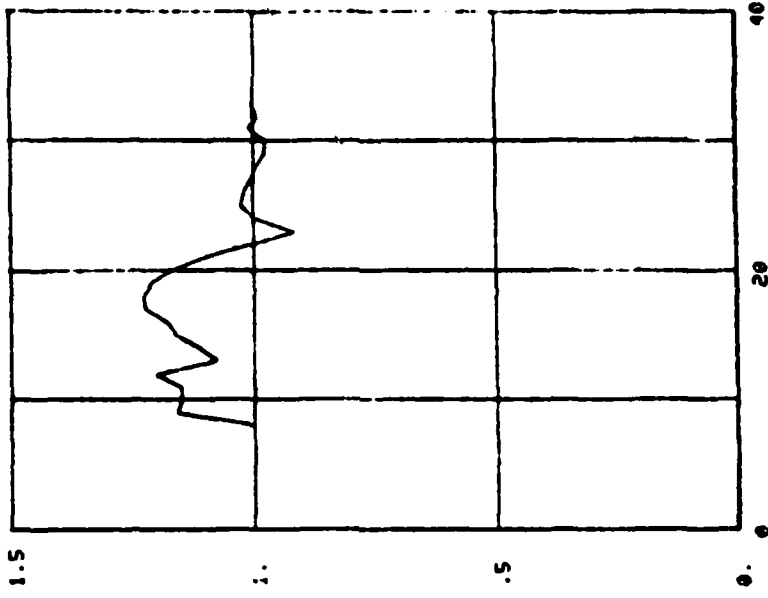
ITEM DATA  
 NO. 22  
 ALC SN  
 MFC LF 1560  
 NIM 000475053  
 UP EA  
 MCMY PANELED CABT  
 MGT 2  
 MYGT34 9552 P 59.62  
 COST

DEMANDS	7	22	29	16	17	22	11
20	2	2	6	4	6	2	1
14	0	0	0	1	3	3	2
1	3	0	0	0	0	4	1
0	0	0	0	0	0	0	0
RETURNS	0	0	1	0	0	0	3
0	0	4	0	0	0	0	2
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0

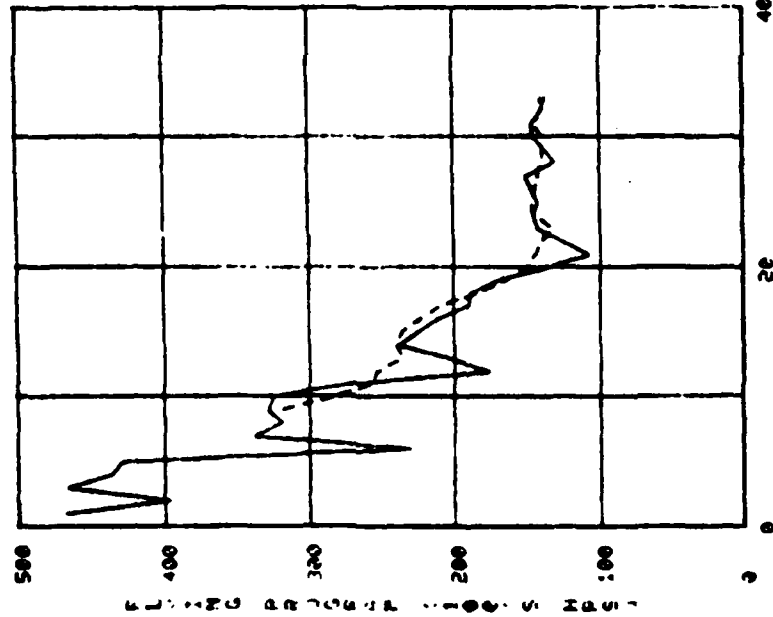


QTR NO. (1-JAN 71)

----- GROSS UNIT DEMAND PER QTR  
 - - - - - UNITS RETURNED BY QTR



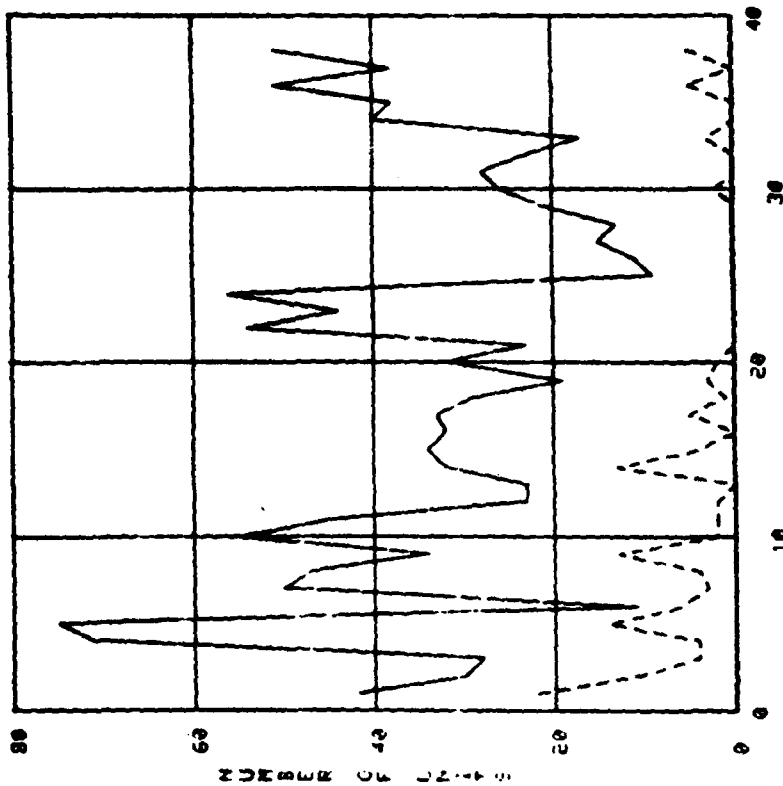
QUARTER NUMBER, QUERE 1 - JAN 71



QUARTER NUMBER, QUERE 1 - JAN 71

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FLYING PROGRAM FOR CV 71 - 80



QTR NO. (1-JAN 71)

----- GROSS UNIT DEMAND PER QTR  
 - - - - - UNITS RETURNED BY QTR

ITEM DATA 10  
 NO. SM LC 1560  
 WPC 00255471  
 YIIN EC  
 YOUN D-4KE  
 YGT 3682 P .5.28  
 YGT34  
 COST

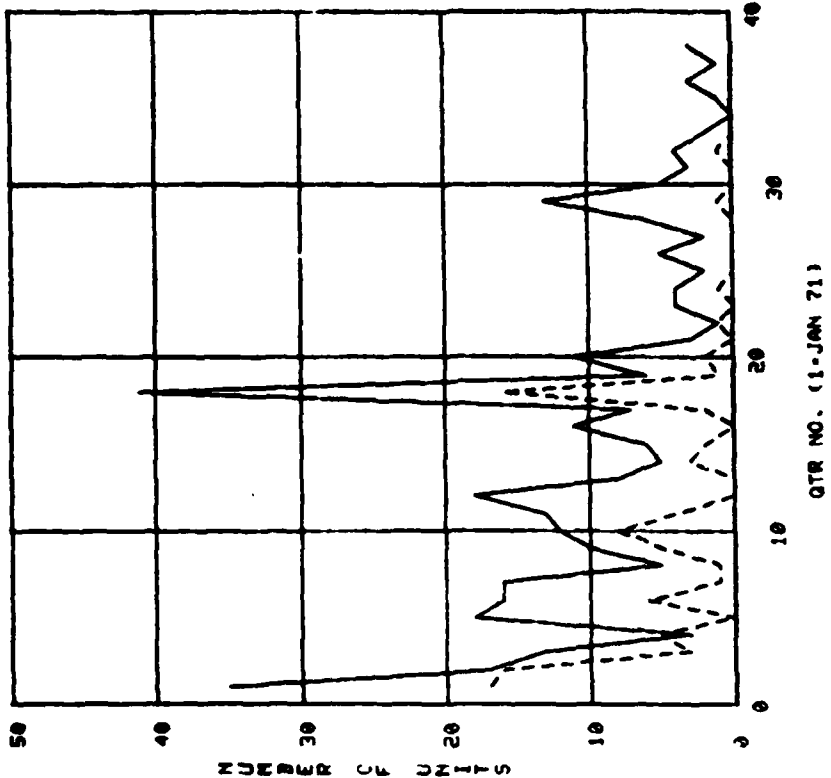
DEMANDS	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
42	34	33	33	17	42	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
RETURNS	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40		

ITEM DATA  
 NO. 14  
 ALC SR  
 PWC LC 1560  
 NJIM 000304732  
 UN EA  
 NOUN TUBE ASSY  
 NGT 2  
 NTGT34 96SZ B  
 COST 126.46

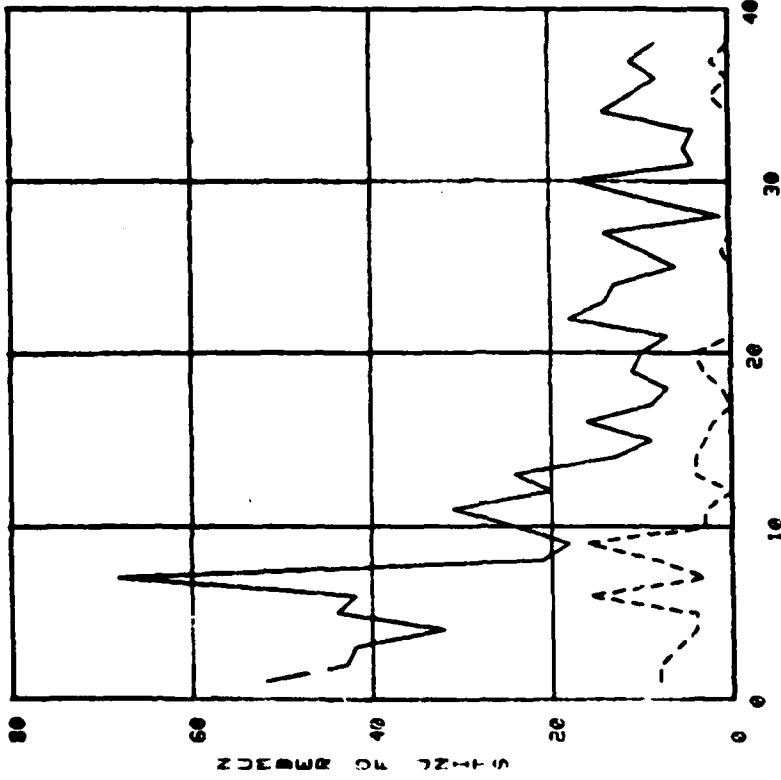
DEMANDS	17	13	3	18	16	16	5
35	17	13	3	18	16	16	5
19	12	12	18	8	5	4	11
7	41	6	11	3	1	4	4
2	5	2	6	13	5	3	4
2	0	1	3	1	3		

RETURNS	16	3	5	9	6	1	1
17	16	3	5	9	6	1	1
5	18	4	0	9	3	2	0
2	16	1	2	0	1	0	1
0	0	0	0	1	0	0	1
0	0	0	0	0	0	0	1



----- GROSS UNIT DEMAND PER QTR  
 - - - - - UNITS RETURNED BY QTR

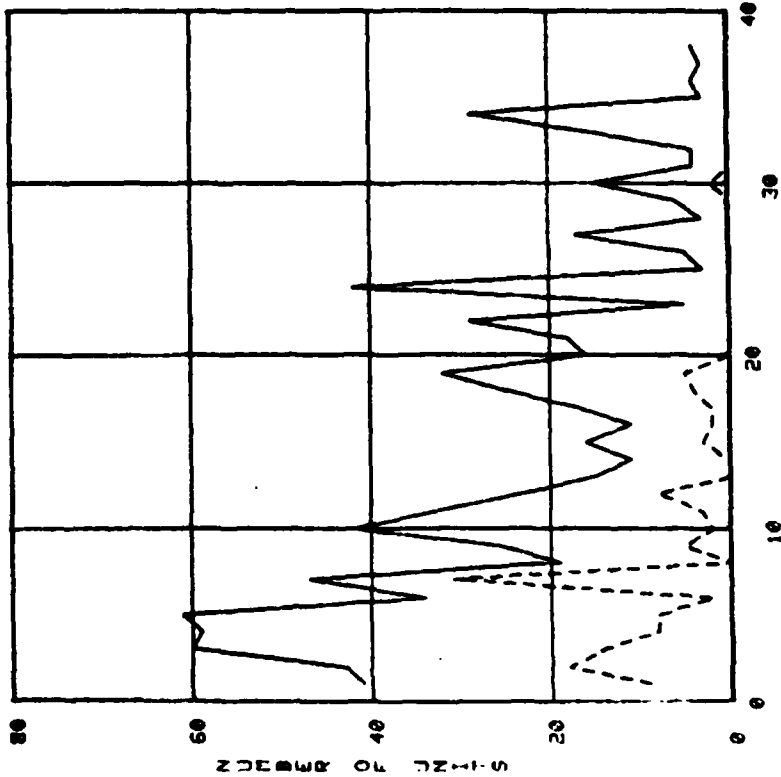


QTR NO. (1=JAN 71)

----- GROSS UNIT DEMAND PER QTR  
 - - - - - UNITS RETURNED BY QTR

ITEM DATA  
 NO. 15  
 ALC SM  
 PRC LC 1560  
 MIIN 000315199  
 LW EA  
 MOUN CAP ASY  
 PRT 3  
 RTGT34 96BZ B  
 COST 50.44

DEMANDS	43	42	32	44	42	68	21
52	24	31	20	24	13	9	16
18	7	11	10	7	18	14	13
9	10	14	1	10	17	4	5
6	14	11	8	11	8		
4							
RETURNS	8	6	4	4	16	3	8
8	3	3	0	4	4	3	2
16	1	3	4	0	0	0	0
0	1	0	0	0	0	0	0
0	0	2	0	0	0	0	0

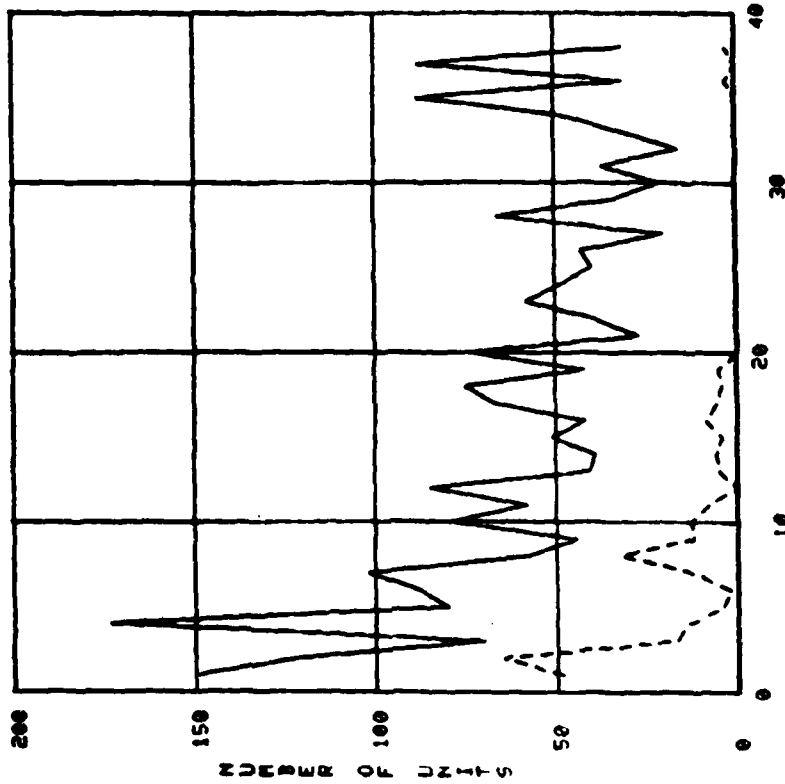


ITEM DATA  
 NO. 17  
 ALC SN LC 1560  
 RMC 000352079  
 MIIN EA  
 MOUN CRANK ASSY  
 RGT 2  
 RTGT34 9682 B 55.65  
 COST

DEMANDS	41	43	60	59	61	34	47	19
	26	42	33	23	15	11	16	11
	17	25	32	16	18	29	5	42
	3	5	17	3	6	15	4	4
	15	29	3	4	3			
RETURNS	9	18	14	8	8	2	3	0
	5	2	3	8	0	0	0	2
	2	4	5	0	0	0	0	0
	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0

QTR NO. (1-JAN 71)

----- GROSS UNIT DEMAND PER QTR  
 - - - - - UNITS RETURNED BY QTR



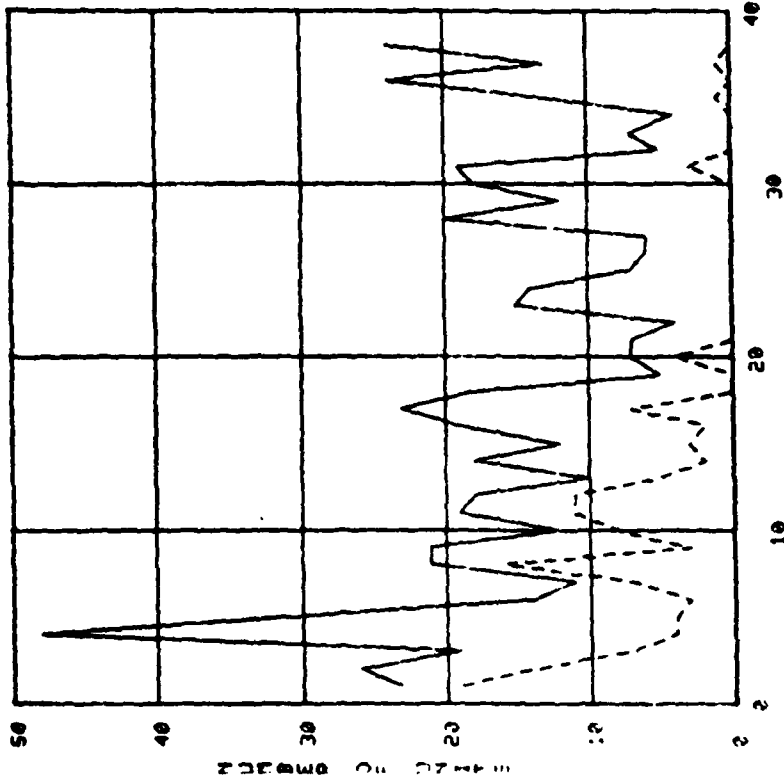
QTR NO. (1-JAN 71)

----- GROSS UNIT DEMAND PER QTR  
 - - - - - UNITS RETURNED BY QTR

ITEM DATA

NO. 18  
 ALC SF 1560  
 MTC LC 000473788  
 MIIM EA  
 JI DOOR ASSY  
 NOUN 2  
 NGT 9682 B 10.70  
 MGT34  
 COST

DEMANDS	149	121	70	173	80	88	102	58
	44	75	42	74	37	39	58	40
	67	40	43	20	66	34	21	37
	31	49	88	31	88	31		16
RETURNS	48	65	17	14	4	2	12	32
	12	13	8	0	5	6	4	9
	6	4	5	0	0	0	0	0
	0	0	0	0	0	0	0	0
	0	0	0	3	0	0	0	0



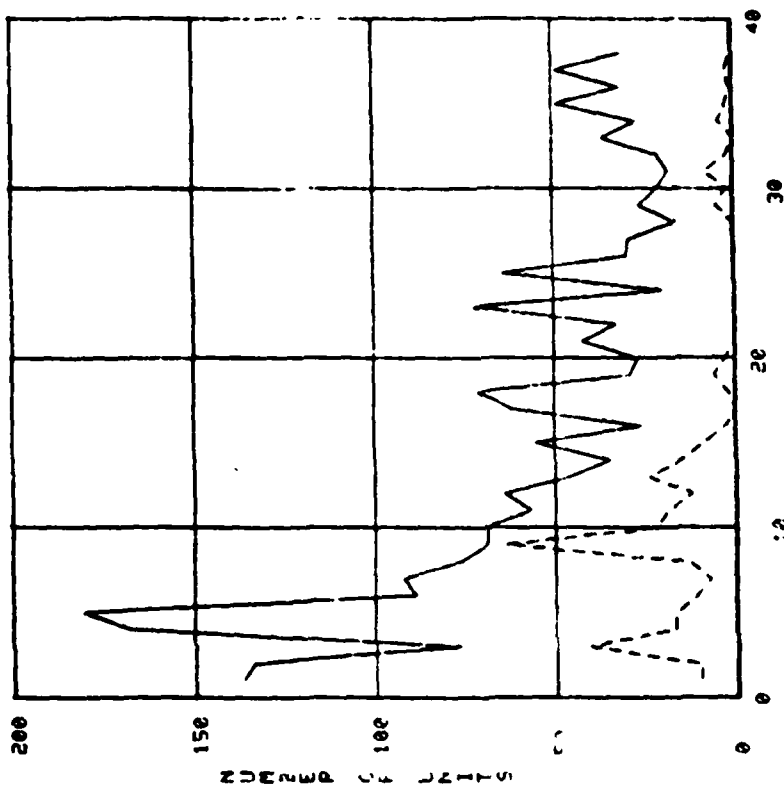
QTR NO. (1-JAN 71)

----- GROSS UNIT DEMAND PER OTR  
 - - - - - UNITS RETURNED BY OTR

ITEM DATA

NO. 19  
 ALC SM  
 PNC LC 1560  
 MFIN 000474009  
 LW EA  
 MOUN CLASS USMC  
 PGT 2  
 RTG34 5682 B  
 COS 367123

DEMANDS	14	13	12	11	10	9	8	7	6	5	4	3	2	1
DEMANDS	26	19	18	18	48	14	13	14	15	13	13	14	15	15
RETURNS	14	13	12	11	4	3	3	3	3	3	3	3	3	3



GTR NO. (1-JAN 71)

----- GROSS UNIT DEMAND PER QTR  
 - - - - - UNITS RETURNED BY QTR

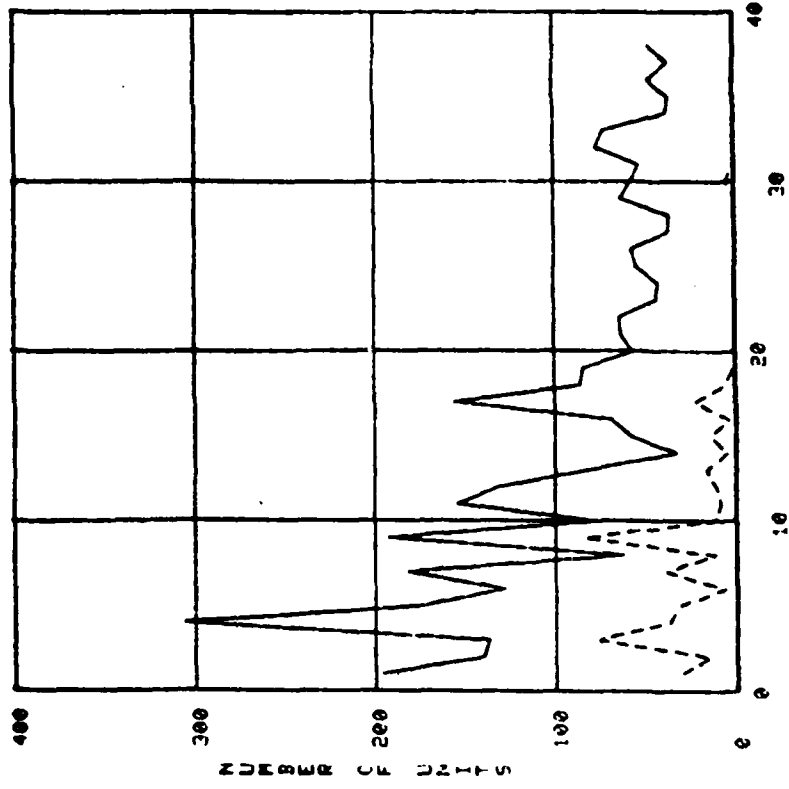
ITER DATA

NO. 20  
 ALC SN  
 PRC LC 1560  
 NINH 000474201  
 UPI EA  
 MOUN SEAL ASSY  
 PGT  
 MYGT34 968Z P  
 COST 54.72

DEMANDS	13	14	17	167	180	89	76
13	134	77	67	180	89	92	76
69	69	57	64	46	35	55	26
62	71	23	27	42	33	72	29
64	30	23	16	26	21	18	21
36	27	49	31	49	31		

RETURNS	10	19	17	17	11	7	13
10	10	41	17	17	11	7	13
64	22	19	12	24	15	9	3
0	0	6	3	0	0	0	0
0	0	0	0	5	2	0	2
0	0	2	1	2	1		



QTR NO. (1-JAN 71)

----- GROSS UNIT DEMAND PER QTR  
 - - - - - UNITS RETURNED BY QTR

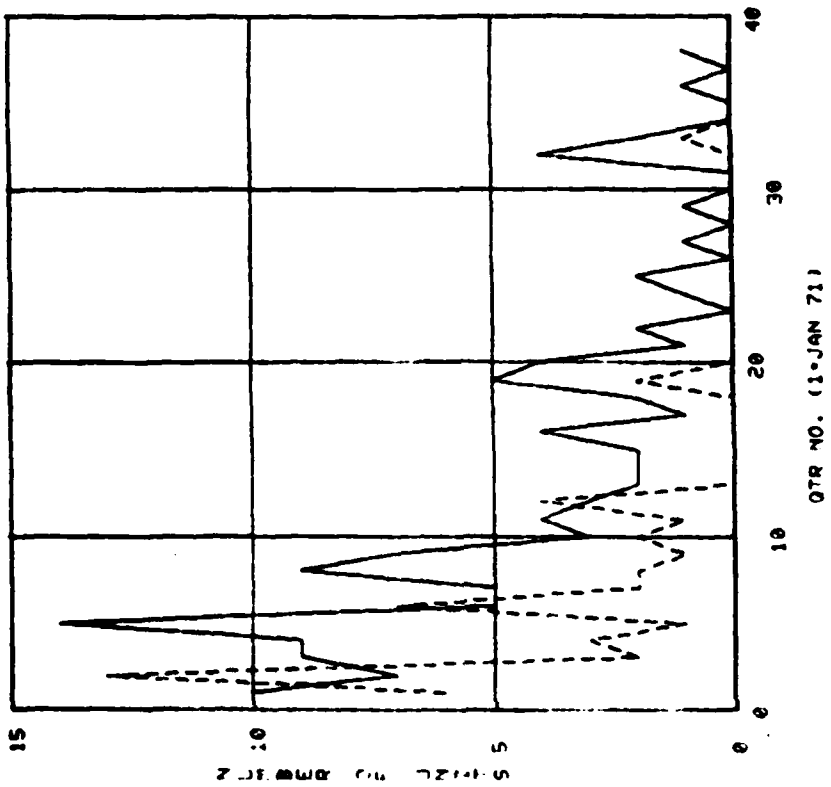
ITEM DATA

NO. 40  
 ALC SY  
 MNC LC 1560  
 NIIM 009912863  
 UP EA ADAPTR  
 MOUN CAP  
 TGT 2  
 TTGT34 9682 R 31.82  
 COST

DEMANDS	197	140	127	306	174	129	182	62
	193	78	154	131	123	158	58	69
	156	36	84	56	64	44	44	46
	72	38	37	38	57	53	77	
			35	47	47			
RETURNS	14	76	37	37	7	39	12	
	31	12	9	11	5	14	4	
	84	6	2	0	0	0	0	
	23	0	0	0	5	1	0	
	0	0	0	0	0	0	0	

ITEM DATA  
 NO. 45  
 ALC SM  
 WPC LC 1560  
 NIIN 301215992  
 UM EA  
 MOLN DCCR ASSY  
 MGT 2  
 MGT24 9682 B  
 COST 383.43

DEMANDS	1	3	4	3	4	3	3	14	9	9	14	9
10	7	3	4	3	4	3	3	2	3	3	2	9
1	1	3	5	3	4	3	3	12	4	3	2	14
2	2	3	5	3	4	3	3	1	3	3	2	14
RETURNS	6	13	1	2	2	3	3	7	2	2	7	2
1	6	13	1	2	2	3	3	0	2	2	0	2
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0	0	0

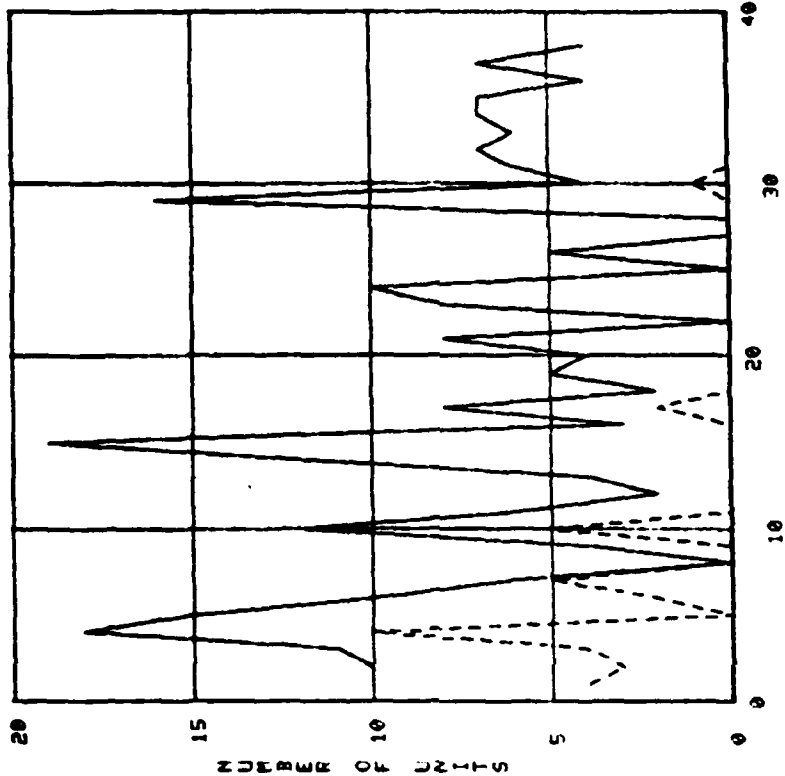


----- GROSS UNIT DEMAND PER QTR  
 - - - - - UNITS RETURNED BY QTR

ITEM DATA

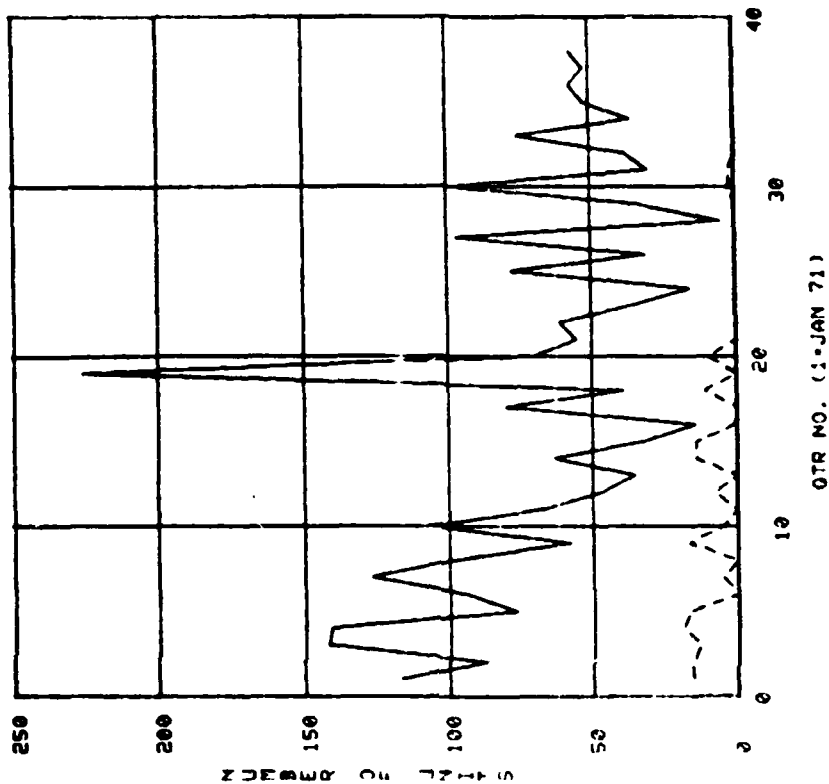
NO. 46  
 ALC SN  
 MPC LC 1560  
 NIM 001224295  
 UR EA  
 MCM APN ASSY  
 MGT 2  
 TTGT34 9682 B 65.10  
 COST

DEMANDS	12	13	14	15	16	17	18	19	20	21	22	23	24
12	2	1	2	1	1	1	1	1	1	1	1	1	1
14	2	1	2	1	1	1	1	1	1	1	1	1	1
16	2	1	2	1	1	1	1	1	1	1	1	1	1
18	2	1	2	1	1	1	1	1	1	1	1	1	1
20	2	1	2	1	1	1	1	1	1	1	1	1	1
22	2	1	2	1	1	1	1	1	1	1	1	1	1
24	2	1	2	1	1	1	1	1	1	1	1	1	1



QTR NO. (1-JAN 71)

----- GROSS UNIT DEMAND PER QTR  
 - - - - - UNITS RETURNED BY QTR

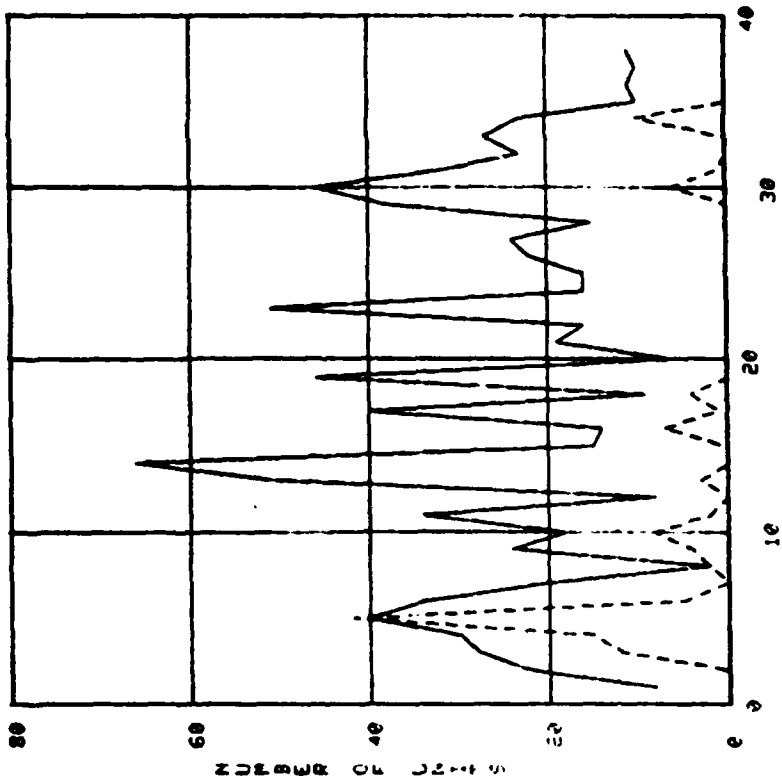


----- GROSS UNIT DEMAND PER QTR  
 - - - - - UNITS RETURNED BY QTR

ITEM DATA

NO. 47  
 ALC SM  
 PNC LC 1560  
 NIM 001225355  
 UM EA  
 NOUN DUST SHILD  
 PGT 2  
 PGT34 9682 B 0.69  
 COST

DEMANDS	87	142	141	77	34	127	35
17	67	47	25	63	22	24	16
58	336	70	25	50	30	38	
80	37	5	24	35			
78	36	57	52				
75							
RETURNS	16	13	15	17	2	5	0
15	12	8	9	4	14	1	0
17	0	10	0	0	0	0	0
0	11	0	0	2	0	0	0
0	0	0	0	0	0	0	0



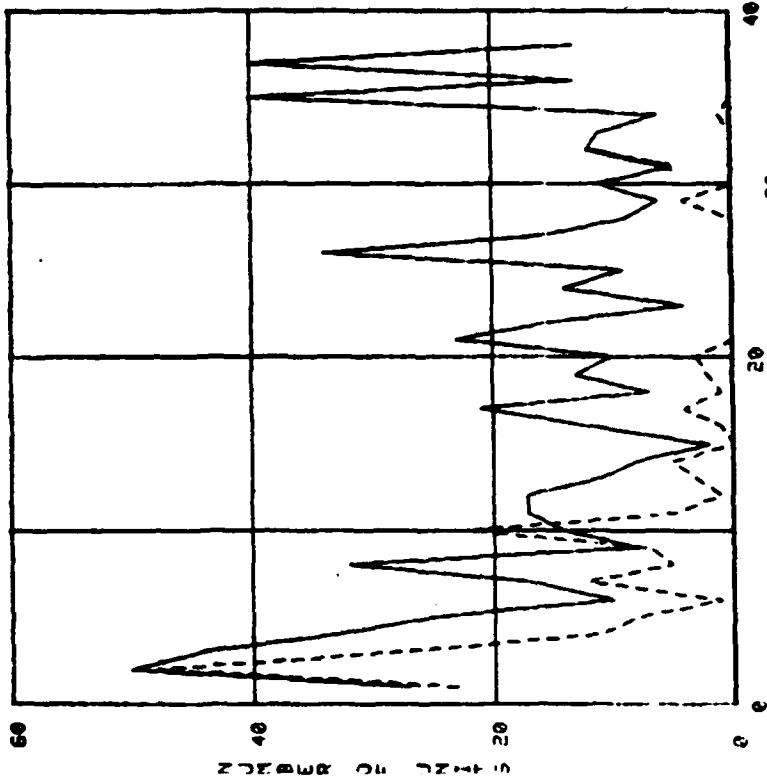
QTR NO. (1-JAN 71)

----- GROSS UNIT DEMAND PER QTR  
 - - - - - UNITS RETURNED BY QTR

ITEM DATA

NO. 48  
 ALC SM  
 MPC LC 1560  
 MIIN 001227719  
 UPI EA  
 MOUN BRACE  
 TGT 2  
 YGT134 9632 B 36.95  
 COST

DEMANDS	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
8	28	34	46	34	38	38	42	33	36	42	33	30	30	30	30	30	30	30	30
24	18	9	14	17	18	18	15	16	16	16	16	16	16	16	16	16	16	16	16
16	23	23	10	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
27	23	10	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
RETURNS	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



OTR NO. (1-JAN 71)

--- GROSS UNIT DEMAND PER OTR  
 - - - UNITS RETURNED BY OTR

ITEM DATA

NO. 49  
 ALC SM  
 RMC LC 1560  
 MIN 001233365  
 UM EA  
 MOUN CLASS  
 PG 2  
 MTGT34 3682 B 75.68  
 COST

DEMANDS	50	44	32	25	12	12	12	12	32
27	14	17	10	11	9	4	4	5	12
21	34	16	23	15	11	11	11	11	12
11	6	40	40	13	13	13	13	13	12

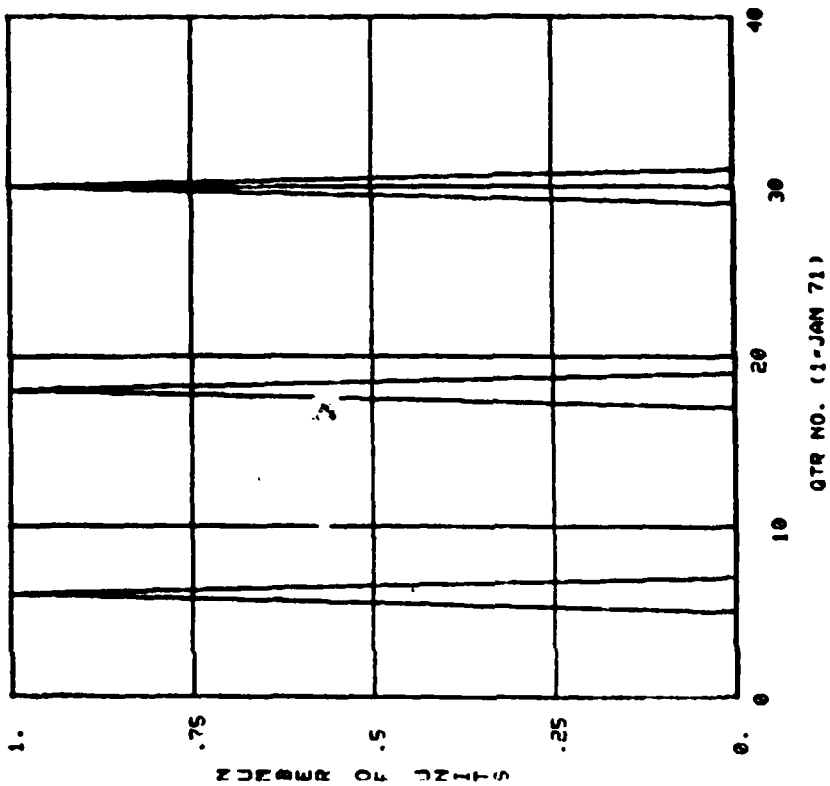
RETURNS	48	27	11	3	3	3	3	3	5
23	5	5	3	3	3	3	3	3	3
7	1	1	1	1	1	1	1	1	3
4	1	1	1	1	1	1	1	1	3
0	1	1	1	1	1	1	1	1	3
0	1	1	1	1	1	1	1	1	3

FL



ITEM DATA  
 NO. 28  
 ALC AD 1420  
 WPC 006825565  
 NIIN EA  
 UPI OSCILLATOR  
 MGT 5  
 MTG34 107U B  
 COST \$90.55

DEMANDS	0	1	2	3	4	5	6	7	8	9	0
0	0	0	0	0	0	0	0	0	0	0	0
1	0	1	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0



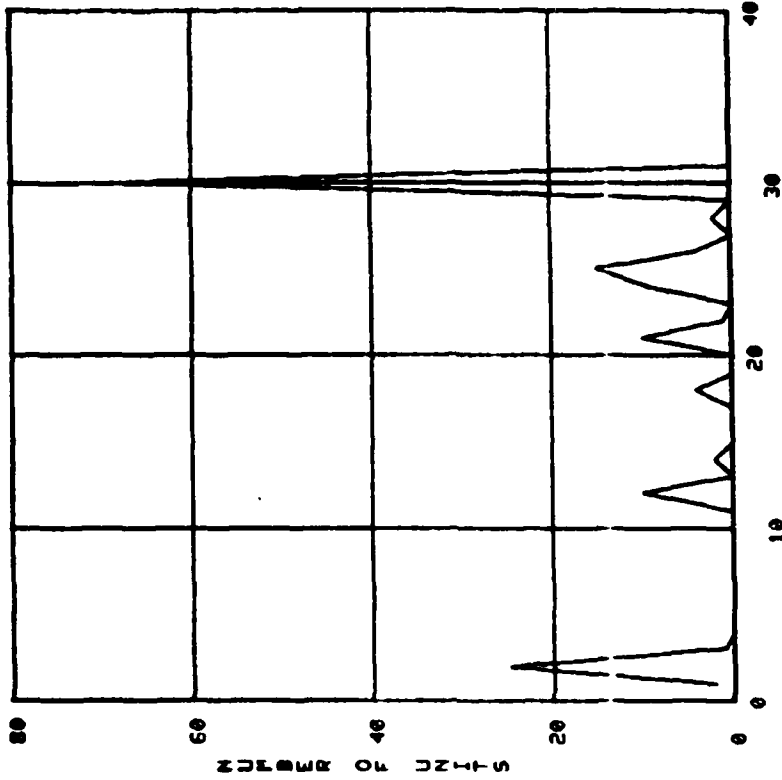
----- GROSS UNIT DEMAND PER QTR  
 - - - - UNITS RETURNED BY QTR





ITEM DATA  
 NO. 31  
 ALC SR AD 1430  
 PNC 004534963  
 NIIN EA  
 UR ASSY PEN  
 MOUN 5  
 PGT 107U 9  
 RTGT34  
 COST 15.09

DEMANDS	25	1	0	0	0	0	0	0	0	0	0	0
2	0	0	10	0	0	0	0	0	0	0	0	0
15	4	0	2	10	1	0	0	0	0	0	0	0
0	0	0	0	0	68	0	0	0	0	0	0	0
RETURNS	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0

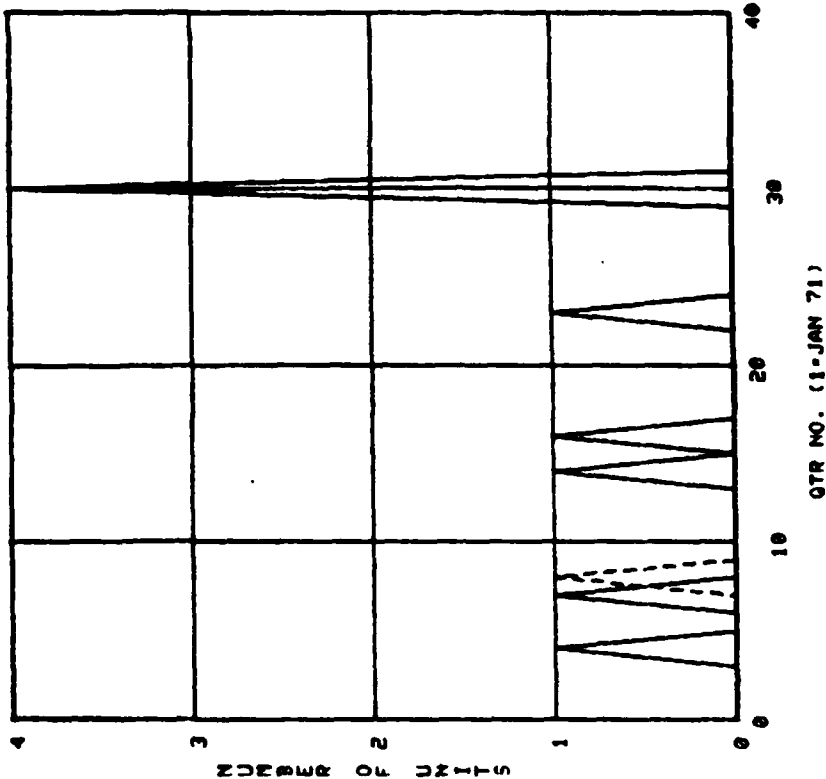


----- GROSS UNIT DEMAND PER QTR  
 - - - - - UNITS RETURNED BY QTR



ITEM DATA  
 NO. 34  
 ALC SM 1440  
 NYC AD 006884790  
 NIIM EA  
 UN CABLE ASSY  
 NOUN S  
 NGT 107U B  
 NGT34 946.29  
 COST

DEMANDS	2	0	1	0	0	0	0	1	0	0	0	0	0
	0	0	0	0	0	0	0	0	1	0	0	0	0
RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0



--- GROSS UNIT DEMAND PER QTR  
 - - - UNITS RETURNED BY QTR





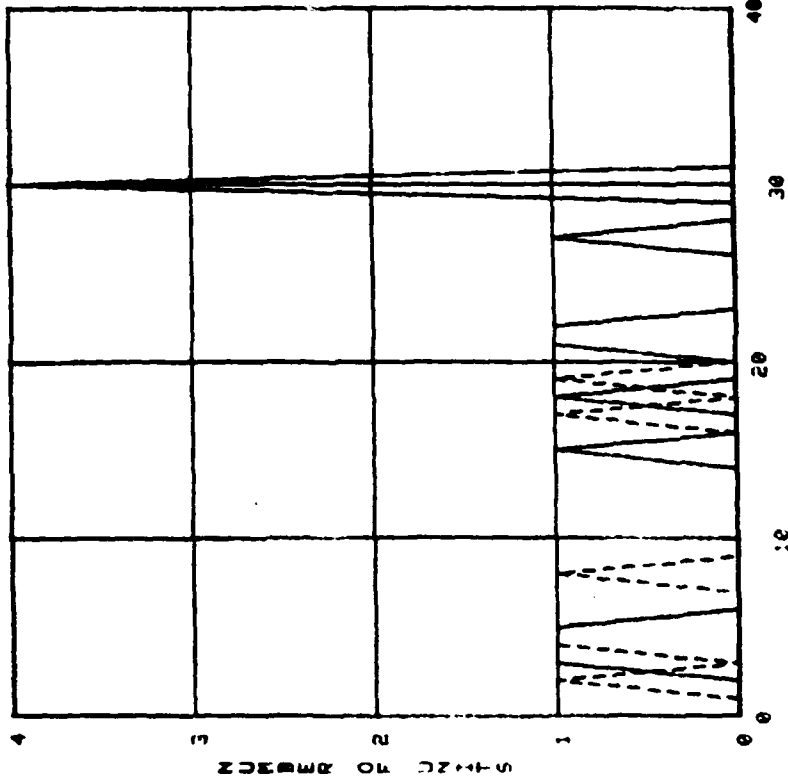
ITEM DATA 37

NO.	SN	AD	1440
ALC	007701543	EA	CABLE ASSY
MMC	107U	B	67.22
MIIN			
LA			
NOJN			
PGT			
MTG134			
COST			

DEMANDS	0	1	1	1	1	0	0	0	0	0
	0	0	0	0	1	0	0	0	0	0
	0	1	0	0	1	1	0	0	0	0
	0	0	1	0	0	0	0	0	0	0
	0	0	0	1	0	0	0	0	0	0

RETURNS	1	0	1	1	0	0	0	0	1	0
	0	0	0	0	0	0	0	0	0	0
	0	0	1	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0



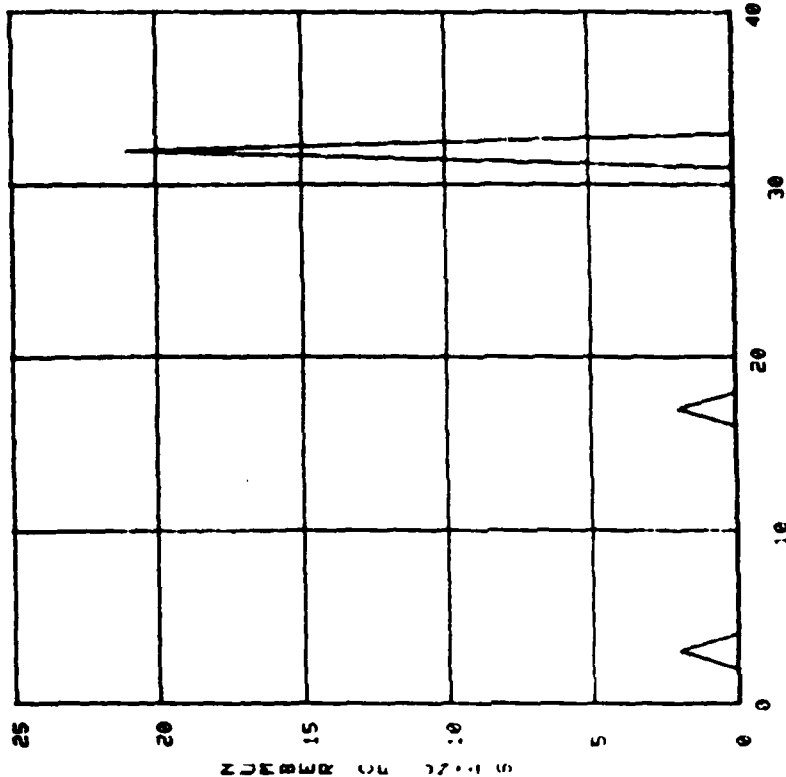
QTR NO. (1-JAN 71)

--- GROSS UNIT DEMAND PER QTR  
 - - - UNITS RETURNED BY QTR









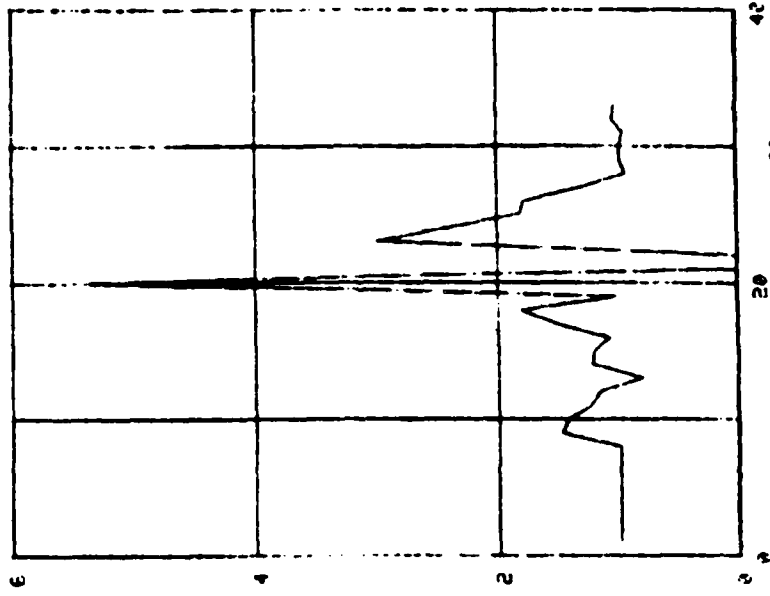
QTR NO. (1-JAN 71)

----- GROSS UNIT DEMAND PER QTR  
 - - - - - UNITS RETURNED BY QTR

ITEM DATA

NO. 41  
 S# SM 41  
 ALC AD 1450  
 PNC 207122596  
 N13N EA  
 UN COILER ASSY  
 NOJIN S  
 PGT 137U B  
 RTGT34 196.35  
 COST

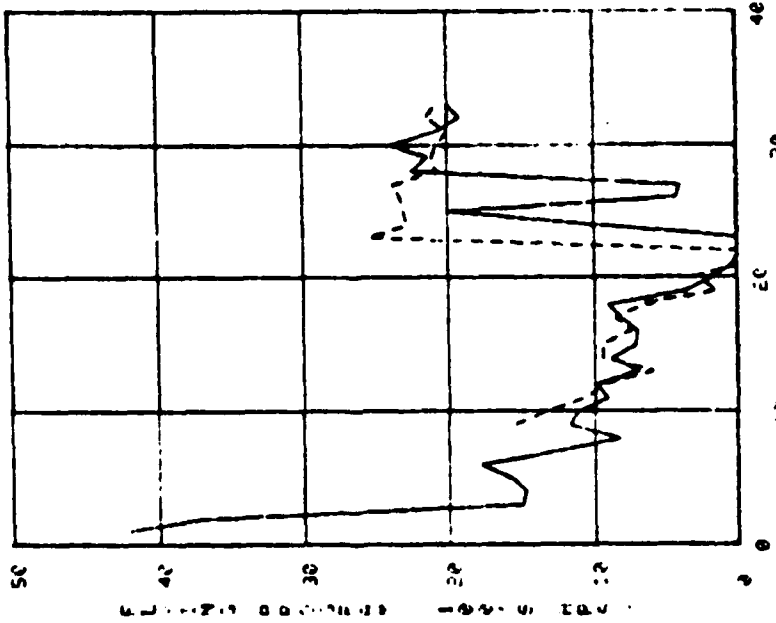
QTR	DEMANDS	RETURNS
1	0	2
2	0	2
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0
8	0	0
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	0	0
15	0	0
16	0	0
17	0	0
18	0	0
19	0	0
20	0	2
21	0	0
22	0	0
23	0	0
24	0	0
25	0	0
26	0	0
27	0	0
28	0	0
29	0	0
30	0	0
31	25	22
32	0	0
33	0	0
34	0	0
35	0	0
36	0	0
37	0	0
38	0	0
39	0	0
40	0	0



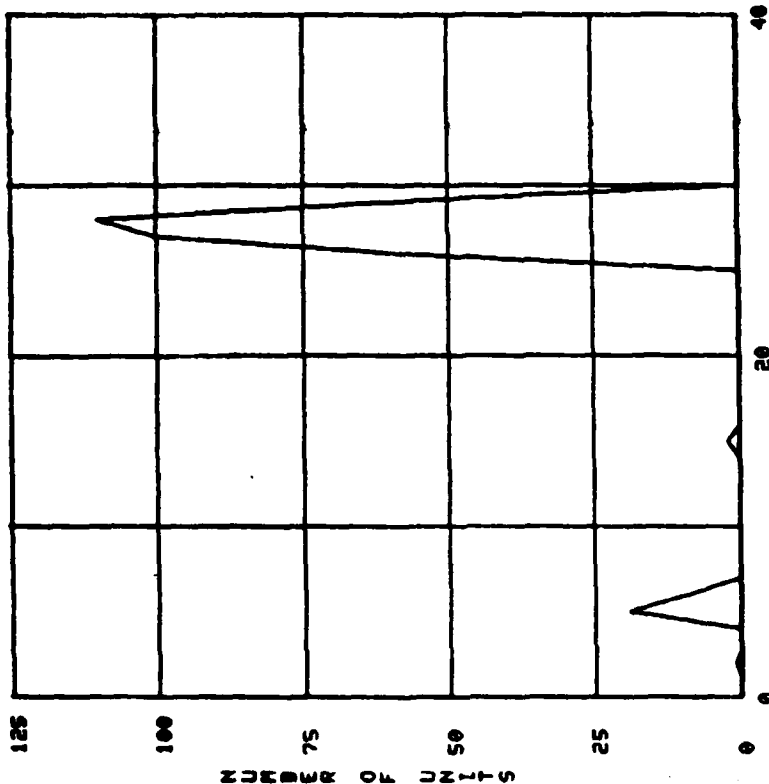
QUARTER NUMBER, WAVE 1 - JAN 71

FIG 04

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QUARTER NUMBER, WAVE 1 - JAN 71

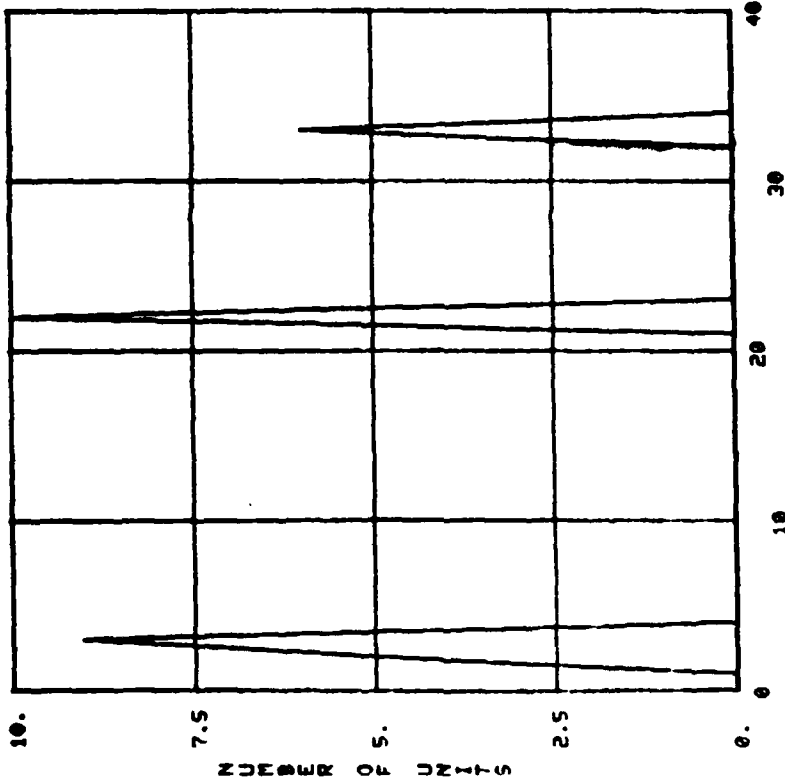


ITEM DATA  
 NO. 2  
 ALC SN  
 WPC CB 1995  
 NIIN 004738616  
 UM EA  
 NOUN CAP EJECT  
 RGT 2  
 RTGT34 303Z B 7.13  
 COST

DEMANDS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40			
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

----- GROSS UNIT DEMAND PER OTR  
 - - - - UNITS RETURNED BY OTR

OTR NO. (1-JAN 71)



----- GROSS UNIT DEMAND PER OTR  
 - - - - - UNITS RETURNED BY OTR

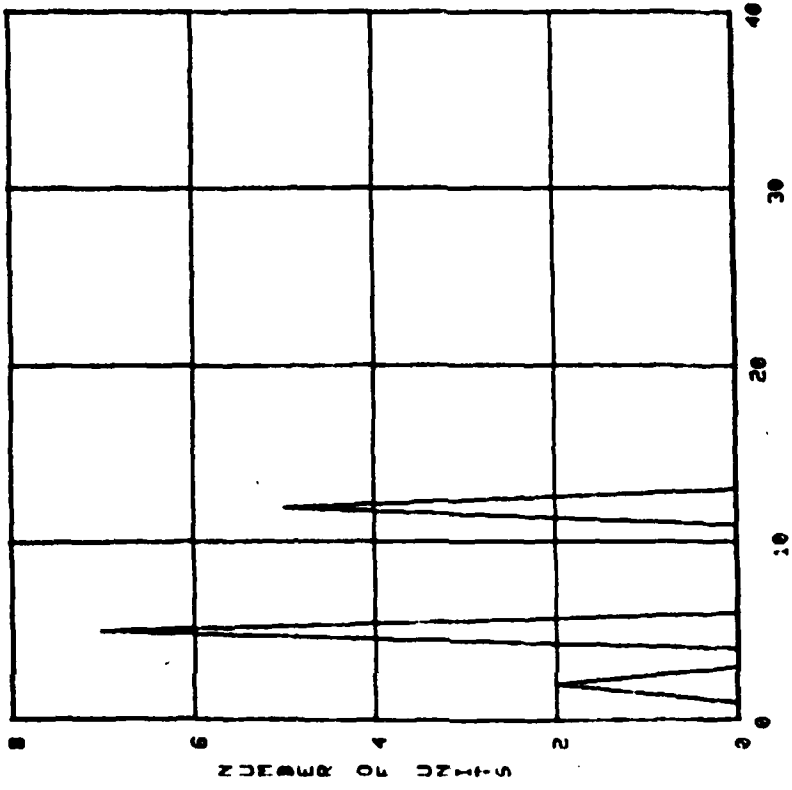
ITEM DATA  
 NO. 3  
 ALC SN CB 1095  
 MFC 004738635  
 NIIM FA  
 UR FLANGE  
 NOUN 2  
 MGT 3032 B  
 MTGT34 12.99  
 COST

DEMANDS	5	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



NO. 5  
 ALC SN CB 1095  
 MNC 004738650  
 NIIM EA  
 UM FITTING  
 MOUN 2  
 NGT 3032 B  
 NTGT34 135.78  
 COST

DEMANDS	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
DEMANDS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

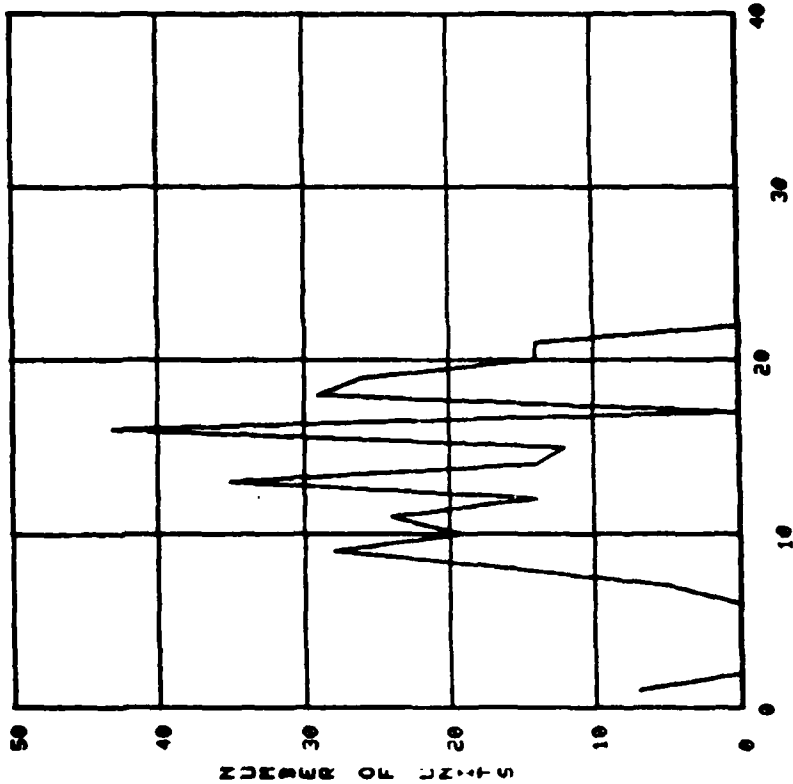


- - - - - GROSS UNIT DEMAND PER QTR  
 - - - - - UNITS RETURNED BY QTR

ITEM DATA  
 NO. 6  
 ALC SR CB 1095  
 PNC 004739799  
 NIIM EA  
 LPT CRIFICE  
 MOUN 2  
 PGT 3032 B 6.99  
 RTGT34  
 COST

DEMANDS	7	8	9	10	11	12	13	14	15	16
28	0	19	24	0	0	14	35	0	0	16
0	0	29	26	14	0	0	0	0	12	43
0	0	0	0	0	0	0	0	0	0	0

RETURNS	7	8	9	10	11	12	13	14	15	16
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0



QTR NO. (1-JAN 71)

----- GROSS UNIT DEMAND PER QTR  
 - - - - - UNITS RETURNED BY QTR

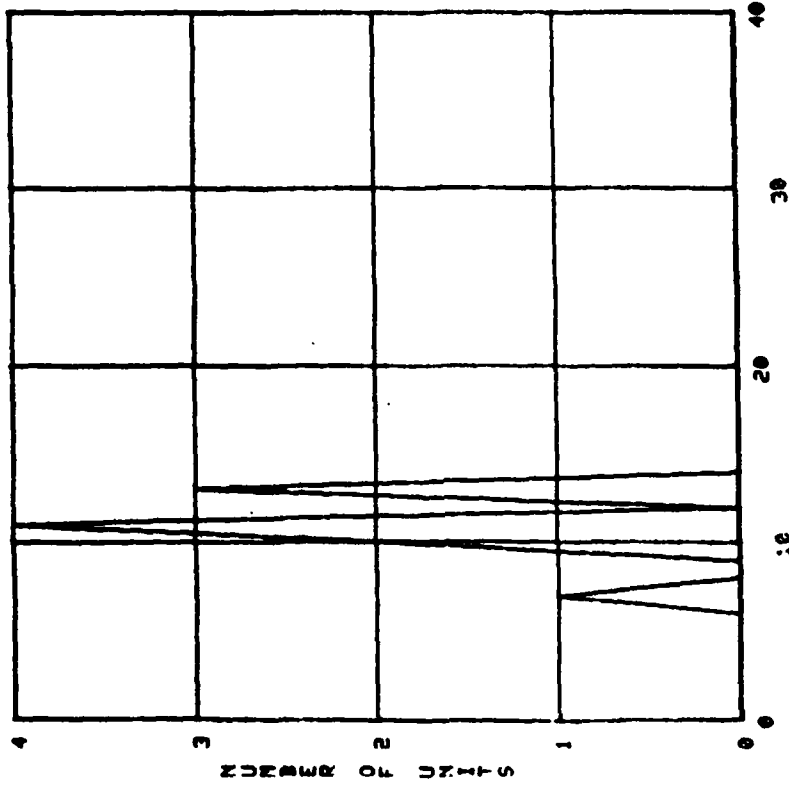




ITEM DATA

NO. 9  
 ALC CB 1270  
 MFC 087167267  
 NIIN EA  
 UPI PREAMP ASY  
 MOUN 2  
 MGT 3032 B  
 RTGT34 B 818.30  
 COST

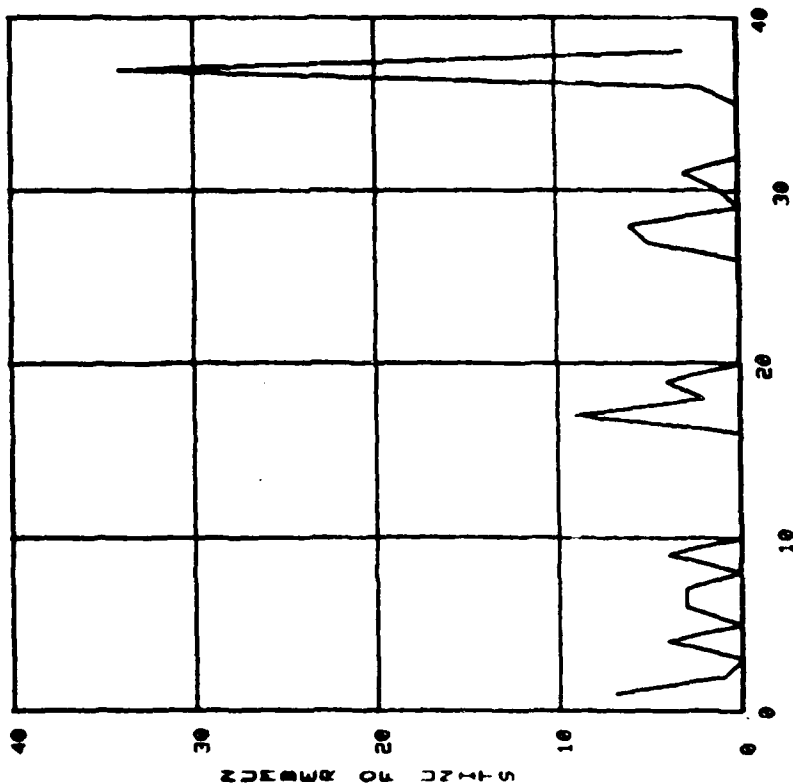
DEMANDS	0	1	2	3	4	5	6	7	8	9
0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0



----- GROSS UNIT DEMAND PER QTR  
 - . - . - UNITS RETURNED BY QTR







NO. 12  
 ALC SM  
 WPC CB 1270  
 MIIN 008076556  
 UM EA  
 MOUN LAUEGUIDE  
 NGT 2  
 MTGT34 3032 B  
 COST 56.41

DEMANDS	1	0	4	0	3	0	0	0
7	0	0	0	0	3	0	0	0
4	0	0	0	0	0	0	0	0
3	2	4	0	0	0	0	0	0
0	0	5	6	0	1	3	0	0
0	0	0	2	34	3	0	0	0
RETURNS	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0

- - - - - GROSS UNIT DEMAND PER QTR  
 - - - - - UNITS RETURNED BY QTR

AD-A124 495

PLOTS OF CY71-79 DEMANDS AND RETURNS FOR A SAMPLE OF  
SACRAMENTO ALC DOB2 ITEMS(U) DECISION SYSTEMS  
BEAVERCREEK OH W S DEMMY MAY 81 WP-81-01

22

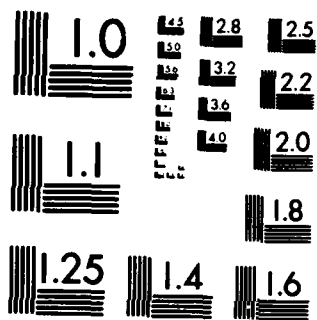
UNCLASSIFIED

F33600-80-R-0314

F/G 15/5

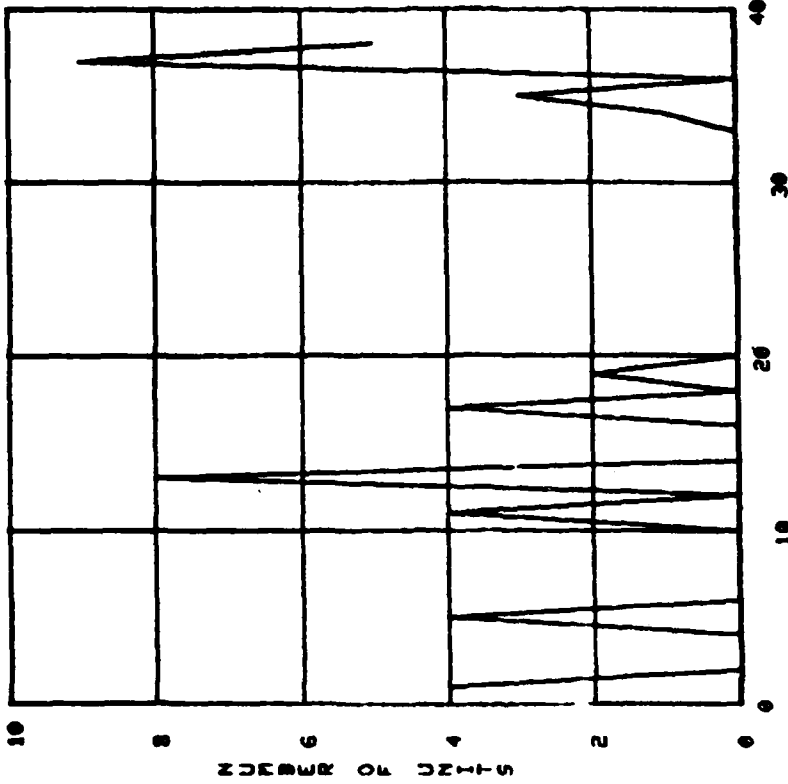
NL

END
DATE
FILMED
1 - 1
DTIC



MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS-1963-A





QTR NO. (1-JAN 71)

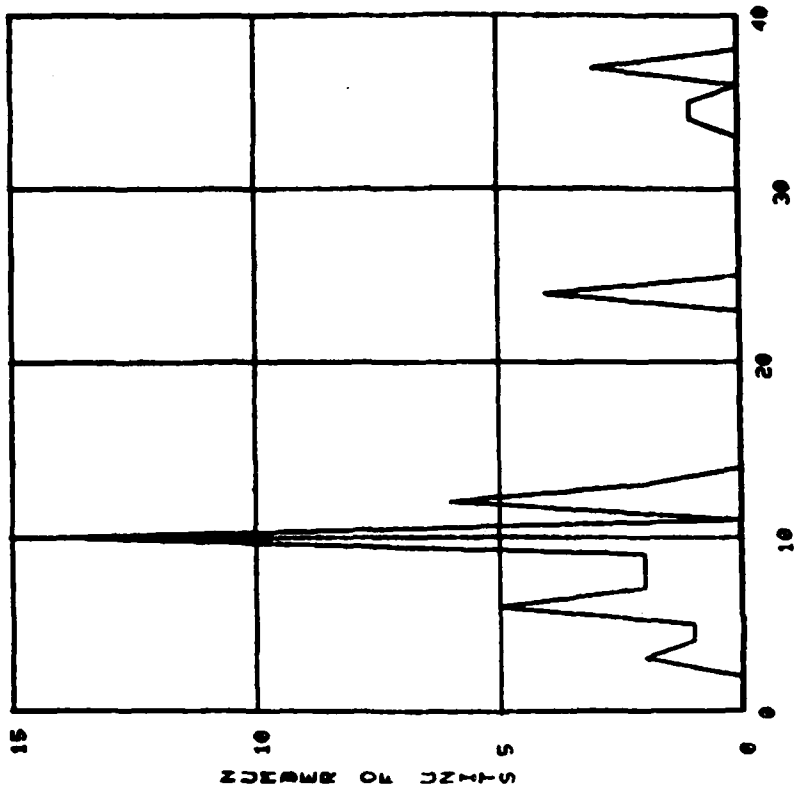
----- GROSS UNIT DEMAND PER QTR  
 - - - - - UNITS RETURNED BY QTR

ITER DATA

NO. 14  
 ALC CB 1270  
 MTC 008582060  
 MIIN EA  
 MOUN SNAFT  
 RGT 2  
 MTGT34 3032 B 20.18  
 COST

DEMANDS	0	1	2	3	4	5	6	7	8	9	0
4	0	0	0	0	0	0	0	0	0	0	0
0	0	4	0	0	0	0	0	0	0	0	0
4	0	0	2	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	1	3	0	0	0	5	0	0	0	0	0
RETURNS	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0



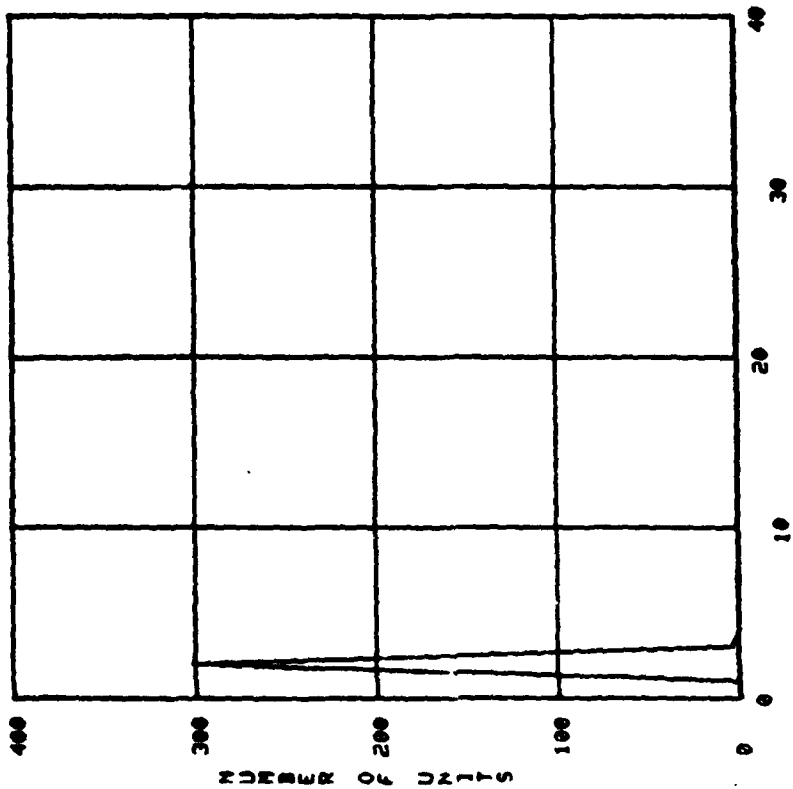


QTR NO. (1-JAN 71)

----- GROSS UNIT DEMAND PER QTR  
 - - - - - UNITS RETURNED BY QTR

ITEM DATA  
 NO. 16  
 ALC SF  
 PNC CB 1270  
 NIIN 008646572  
 LTR EA  
 NOUN CABLE ASSY  
 PGT 2  
 NTGT34 3032 B  
 COST 54.08

DEMANDS	0	2	1	1	2	5	2	2
0	0	0	0	0	0	0	0	0
2	14	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	1	1	0	0	0	0	0	0
RETURNS	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0



ITEM DATA

NO. 17  
 ALC SN  
 PWC CB 1270  
 M11N 00668320  
 UAR EA  
 NOUN SPRING  
 PGT 2  
 MTC134 3032 B 1.80  
 COST

DEMANDS	301	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

--- GROSS UNIT DEMAND PER QTR  
 - - - UNITS RETURNED BY QTR

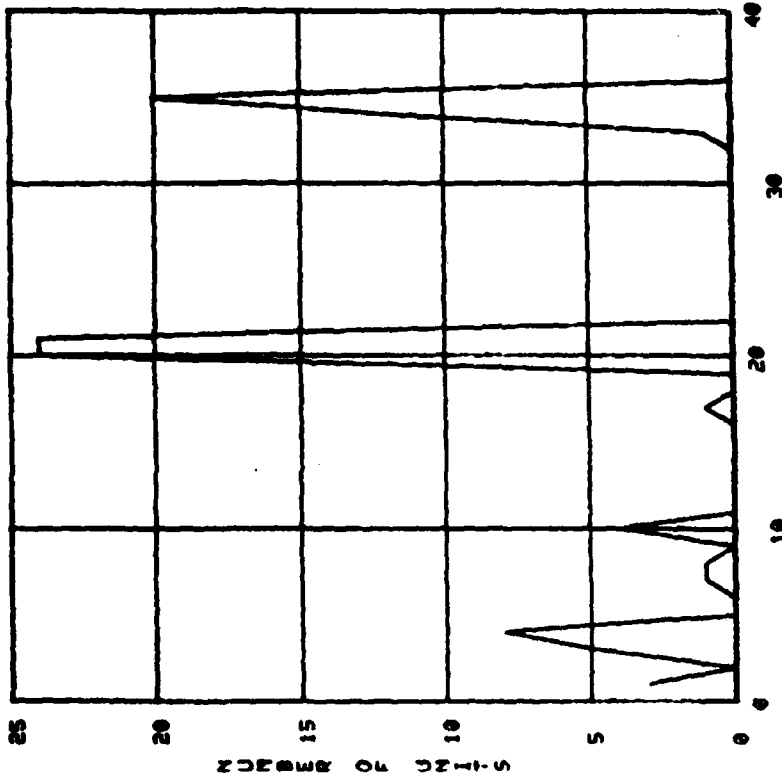
125











QTR NO. (1-JAN 71)

----- GROSS UNIT DEMAND PER QTR  
 - - - - - UNITS RETURNED BY QTR

ITEM DATA

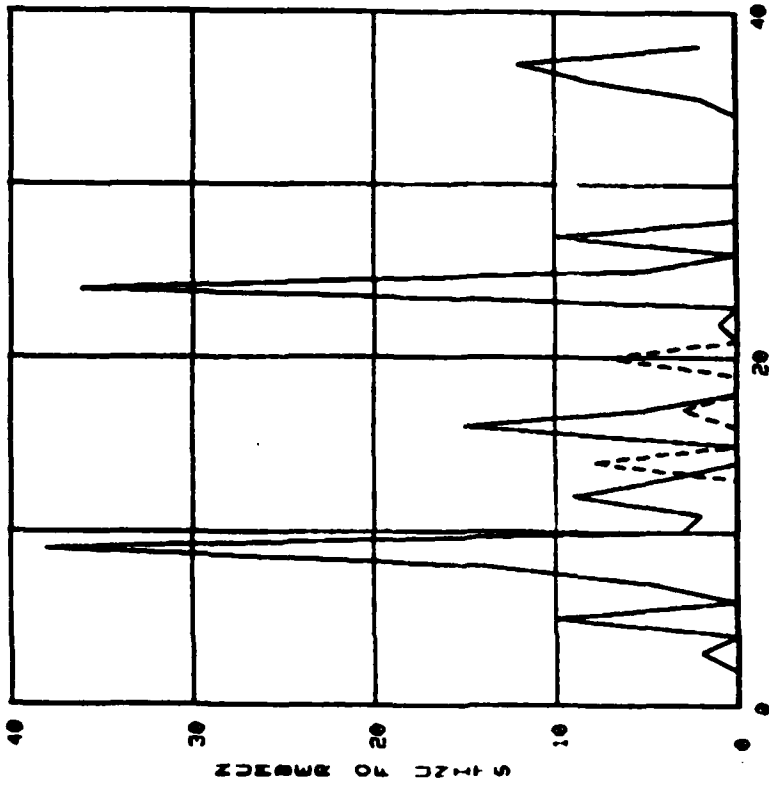
NO. 22  
 ALC  
 PWC 1270  
 MIIN 009020546  
 UN  
 NOUN SPARK GAP  
 NGY 2  
 MTGT34 3032 B 66.40  
 COST

DEMANDS

2	0	5	0	0	0	1	0	0	0	0
0	4	0	0	0	0	0	0	0	0	0
1	0	0	24	24	0	0	0	0	0	0
1	12	20	0	0	0	0	0	0	0	0

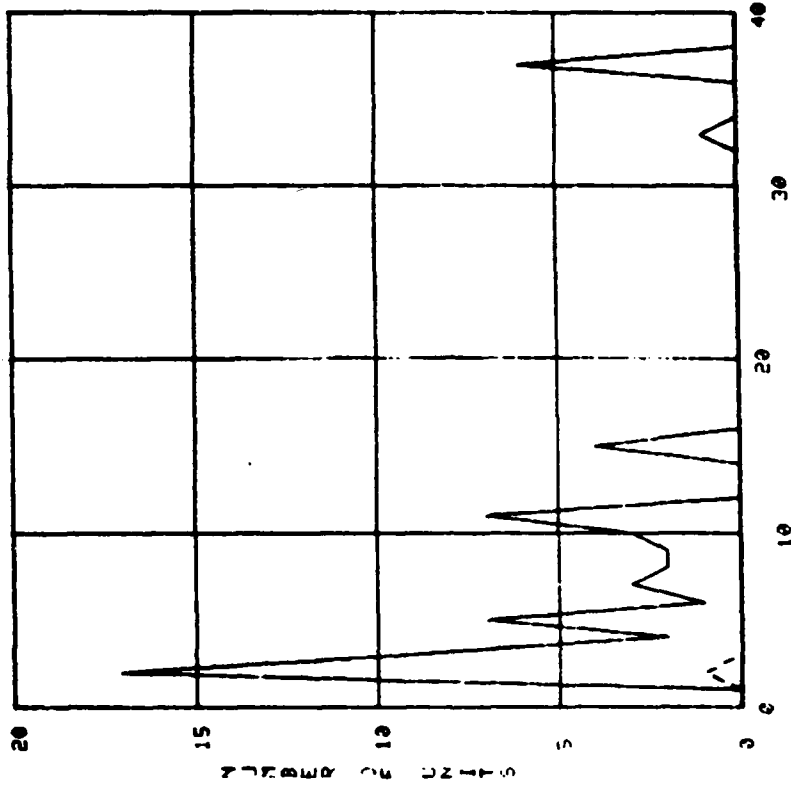
RETURNS

0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0



ITEM DATA  
 NO. 23  
 ALC  
 PNC CB 1270  
 NIIN 009914527  
 UR EA  
 MOUN FILTER LITE  
 MGT 2  
 MTG134 3032 B  
 COST 57.58

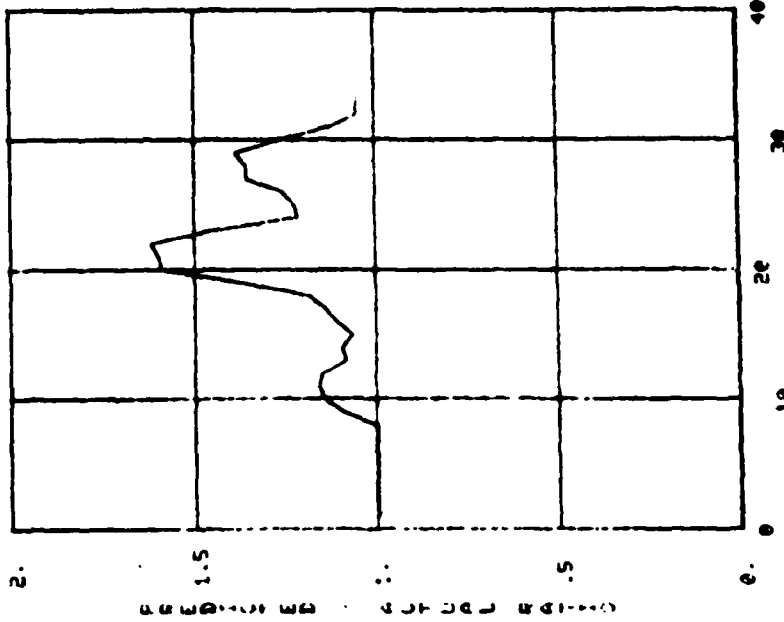
DEMANDS	0	2	9	10	14
38	0	0	0	0	0
5	0	0	0	0	0
0	0	0	0	0	0
RETURNS	0	0	0	0	0
0	0	0	0	0	0
3	0	0	0	0	0
0	0	0	0	0	0



ITEM DATA  
 NO. 42  
 ALC SM  
 WAC LK : 503  
 N/IN 000143148  
 JM EA  
 YOUN LCDR ASSY  
 TGT :  
 NCG134 3032 B  
 COST 61.57

DEFANDS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40				
DEFANDS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

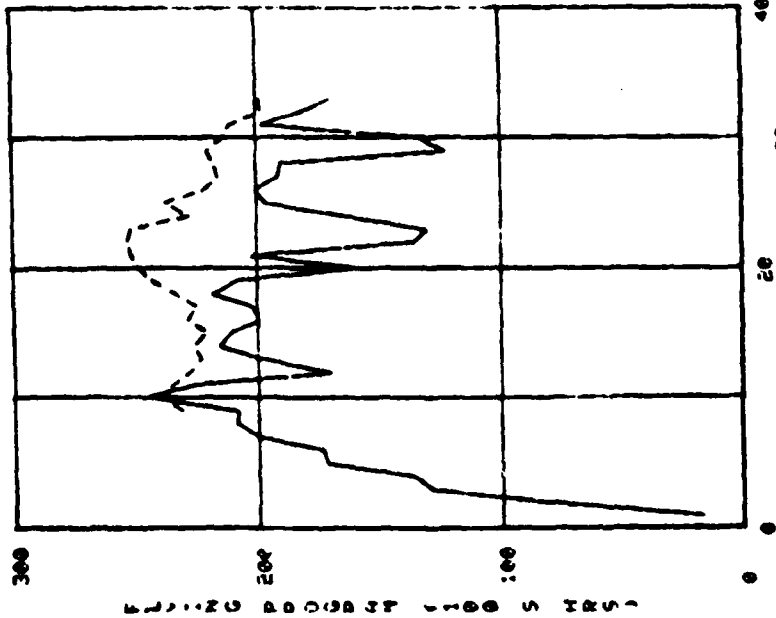
----- GROSS UNIT DEMAND PER OTR  
 - - - - - UNITS RETURNED BY OTR



QUARTER NUMBER, UNREP 1 - JAN 71

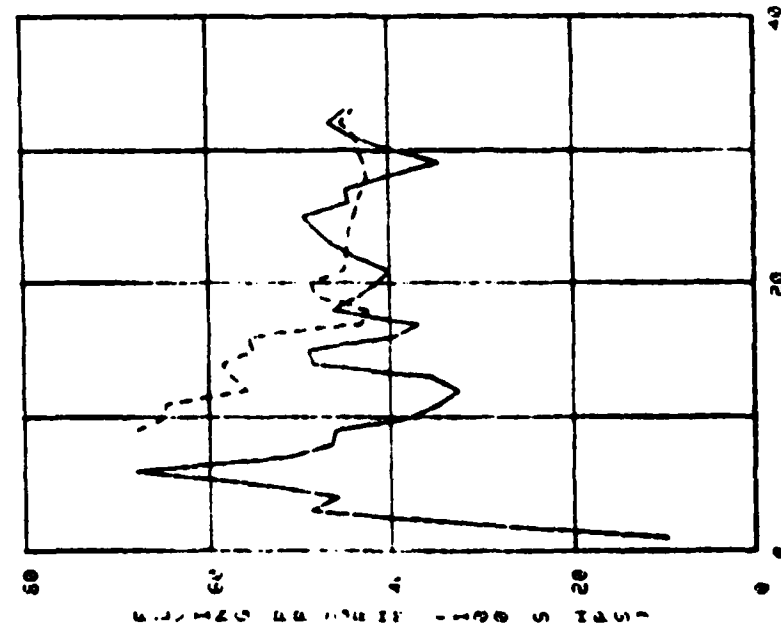
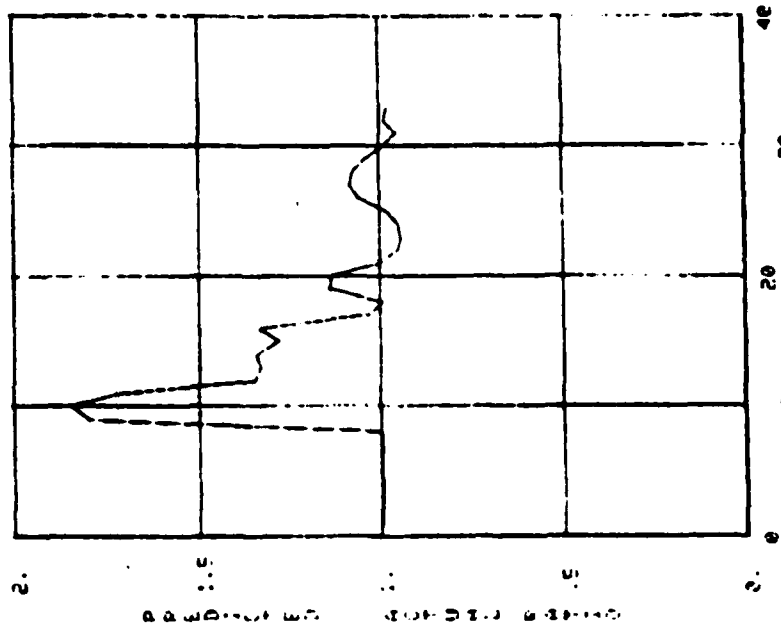
F111B

FLYING PROGRAM FOR CY 71 - 80

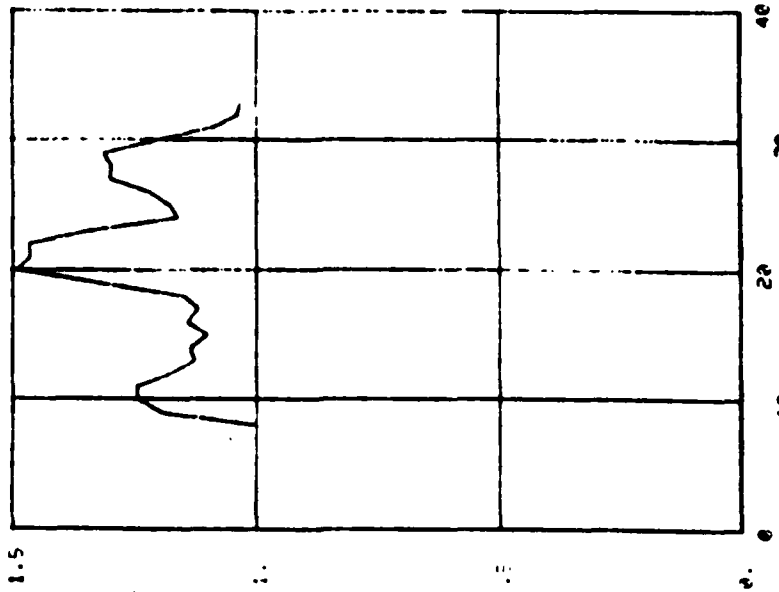


QUARTER NUMBER, UNREP 1 - JAN 71

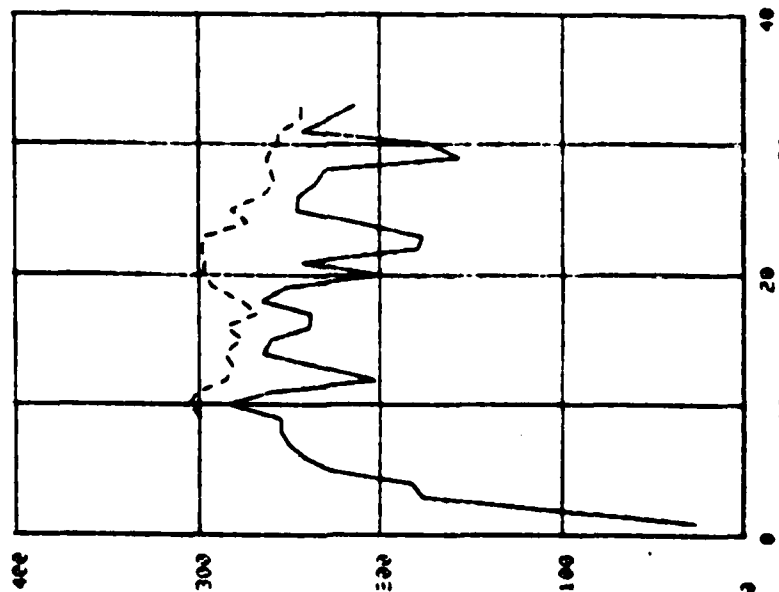
FLYING PROGRAM HOURS



FBIIS  
FLYING PROGRAM FOR CV 71 - 80



APPROXIMATELY 1.5



FLYING PROGRAM FOR 71 - 80

QUARTERLY NUMBER, WHERE 1 - JAN 71

QUARTERLY NUMBER, WHERE 1 - JAN 71

TF111

FLYING PROGRAM FOR 71 - 80









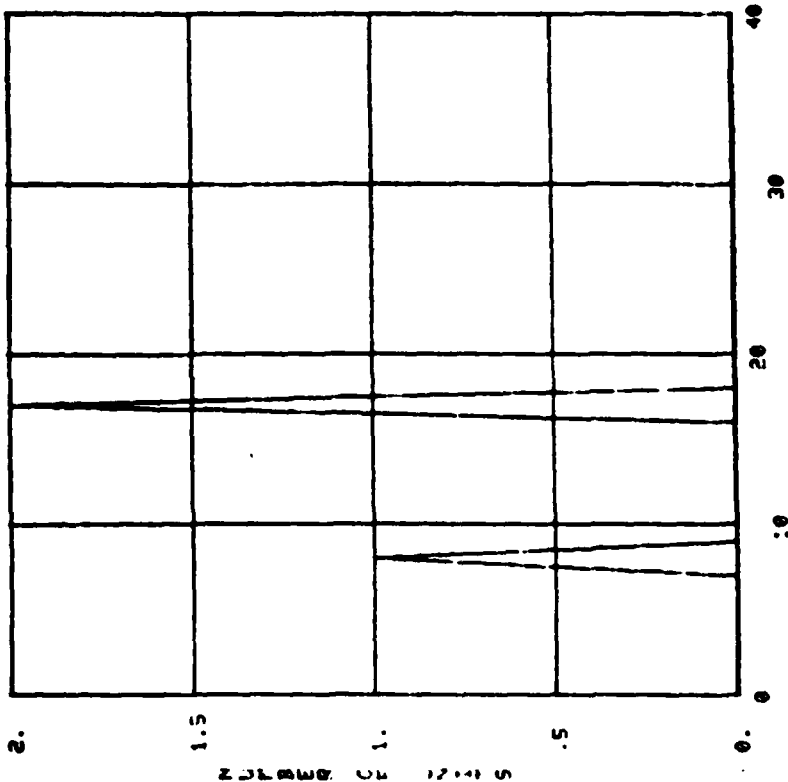


ITER DATA

NO. 43  
 ALC SR  
 PRC BR 1560  
 MIIN 000180733  
 UN EA  
 NOJN 41NGE  
 PGT 2 324Z B  
 COS- MTG-34 502.53

DEMANDS  
 0 0 0 0 0 0 0 0 0 0  
 2 0 0 0 0 0 0 0 0 0  
 0 0 0 0 0 0 0 0 0 0  
 0 0 0 0 0 0 0 0 0 0

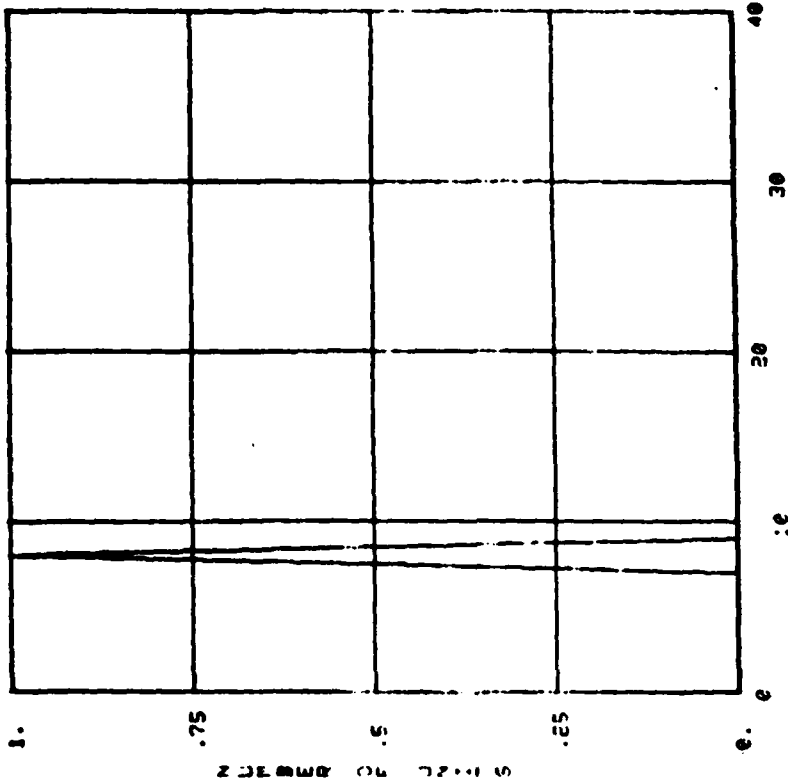
RETURNS  
 0 0 0 0 0 0 0 0 0 0  
 0 0 0 0 0 0 0 0 0 0  
 0 0 0 0 0 0 0 0 0 0  
 0 0 0 0 0 0 0 0 0 0



OTR NO. (1-JAN 71)

----- GROSS UNIT DEMAND PER OTR  
 - - - - - UNITS RETURNED BY OTR





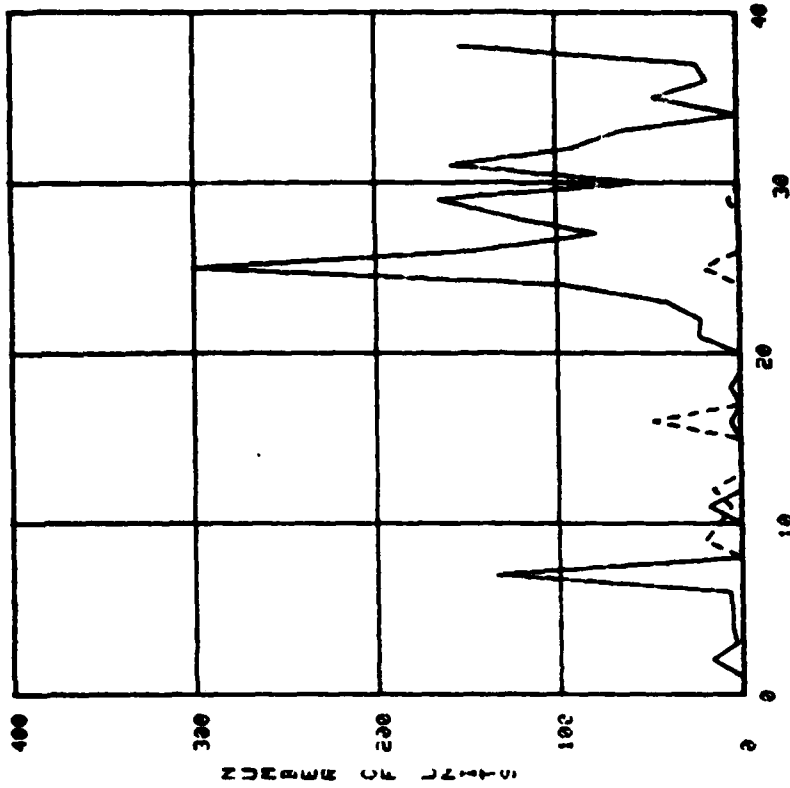
QTR NO. (1-JAN 71)

----- GROSS UNIT DEMAND PER QTR  
 - - - - - UNITS RETURNED BY QTR

ITER DATA

NO. 45  
 ALC BR 1560  
 MNC 0402:6076  
 WJIN EA  
 UR 4JNGE  
 MOJM 2  
 PGT 324Z B  
 FTGT34 49:13  
 COS

DEMANDS	0	1	2	3	4	5	6
0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0



QTR NO. (1-JAN 71)

----- GROSS UNIT DEMAND PER QTR  
 - - - - - UNITS RETURNED BY QTR

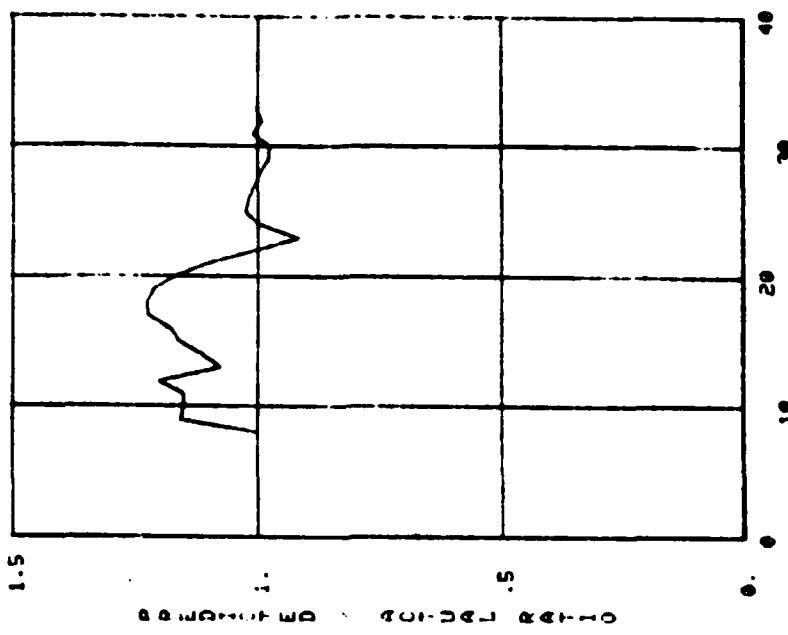
ITER DATA

NO. 46  
 QLC  
 WIC BJ 1560  
 YIIN 000230276  
 JT EA  
 NQAM INSULATOR  
 NBT 3  
 YGT34 3242 P 6.62  
 COST

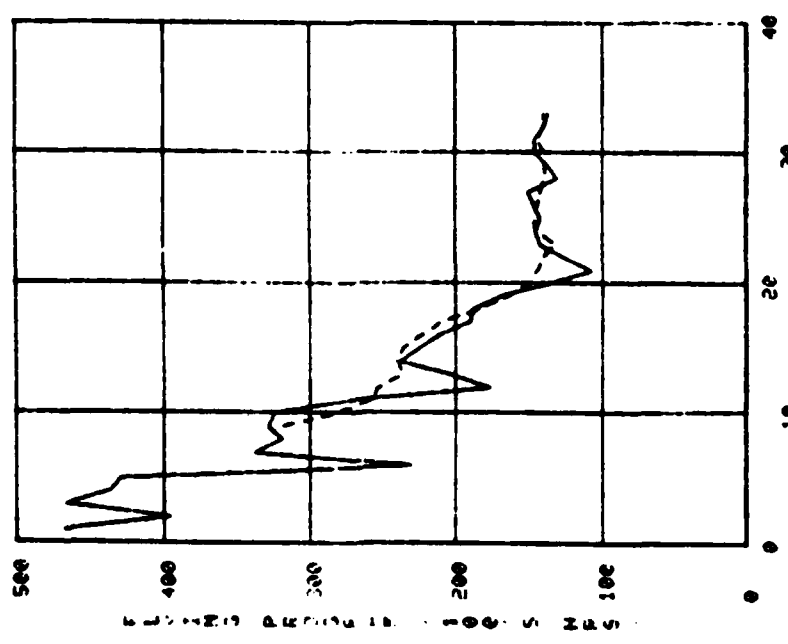
DEMANDS	17	3	6	6	6	7	135	0
	0	0	0	2	2	2	0	0
	0	0	0	2	2	2	48	52
301	143	78	127	162	153	158	93	
66	0	46	17	23	53	158		

RETURNS	2	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0
	20	12	6	16	0	0	0	48
	0	0	0	0	0	0	0	0
	20	0	0	0	0	0	0	0





QUARTER NUMBER, QMERE 1 - JAN 71:



QUARTER NUMBER, QMERE 1 - JAN 71:

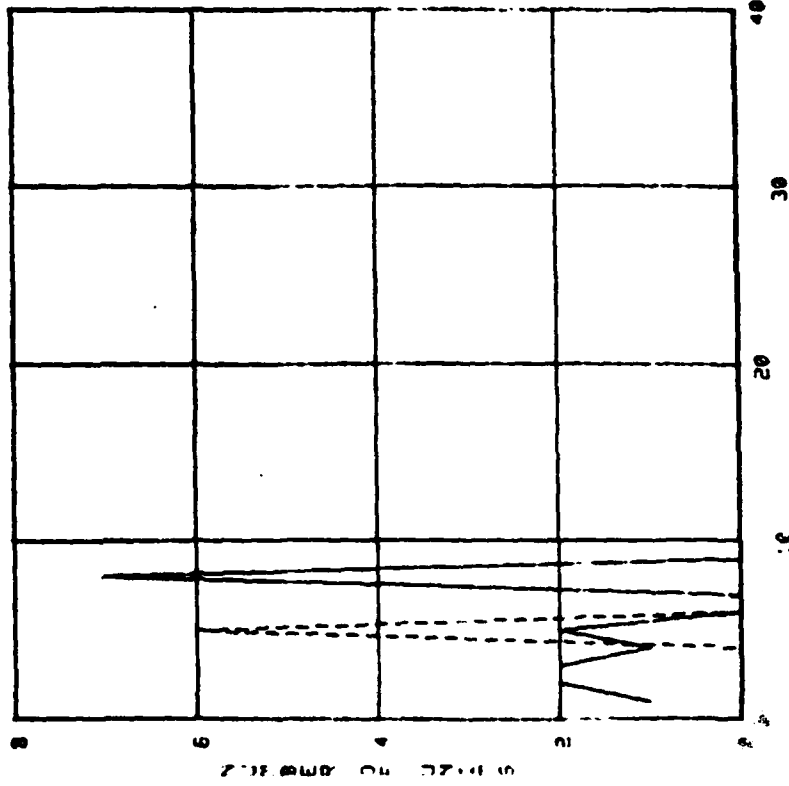
T33

FLYING PROGRM FOR CY 71 - 80

ITEM DATA

NO. 47  
 ALC SM  
 MRC .C 1560  
 NIN 000244216  
 UM EA  
 MOUN BRACKET  
 PGT 3  
 PTO34 5682 B 2.89  
 CCST

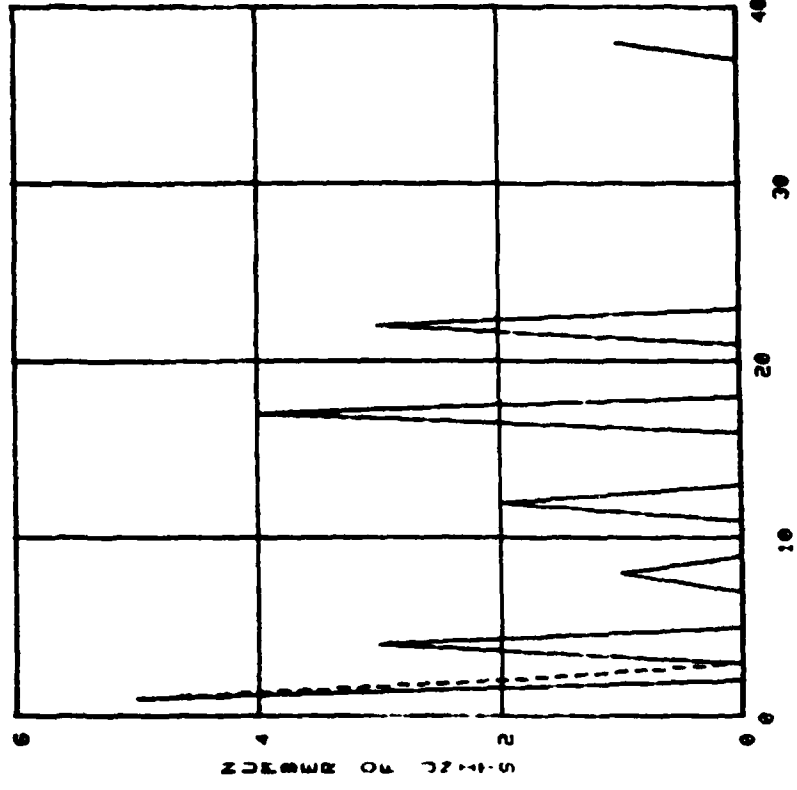
DEMANDS	1	2	3	4	5	6	7	8	9	10
1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0



OTR NO. (1-JAN 71)

----- GROSS UNIT DEMAND PER OTR  
 - - - - UNITS RETURNED BY OTR





ITEM DATA

NO. 49  
 ALC 1560  
 PNC 00024236  
 MIIN EA  
 LVA TUBE ASSY  
 MOUN 3  
 MGT 9682 B  
 MTGT34 75.50  
 COST

DEMANDS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



APPENDIX J

Fortran Source Listings

```

2790*ITMPLT.S
2800**RUN=;INVR/OBJ/ITMPLT.O(BCD,NOG)
2810*ITMPLT.S
2820          SUBROUTINE ITMPLT(IPLT)
2830C
2840C          DO TEXT PLOT OF 1002 ITEM DEMAND
2850C
2860          PARAMETER NOG=38
2870          COMMON/IDEMND/IDEMND(1,NOG)
2880          COMMON/IRETUR/IRETUR(1,NOG)
2890          COMMON/UCOST/UCOST(1)
2900          COMMON/FSN/ALC,FSN(4),UM,NOUN(2),MGTCD(4),IOH,IOR,IPPL,IPPR
2910          CHARACTER ALC,FSN,UM,NOUN,MGTGD
2920          DIMENSION XX(80),YY(80)
2930          DIMENSION PTS(4)
2940          CHARACTER OPTS*4(4)
2950C
2960C          RECORD DATA POINTS FOR PLOT
2970C
2980          NPTS=38
2990          CALL USTART
3000          DO 120 I=1,38
3010C
3020          XX(I)=FLOAT(I)
3030          YY(I)=FLOAT(IDEMND(1,I))
3040          XX(I+NPTS)=XX(I)
3050          YY(I+NPTS)=IRETUR(1,I)
3060          120 CONTINUE
3070C
3080C          PRINT ITEM DATA ON RIGHT MARGINS
3081          CALL UALPHA
3082          CALL UAIN(CHAP)
3083C
3090C
3100          WRITE(9,123)IPLT,ALC,FSN,UM,NOUN,MGTCD,UCOST(1)
3110          123  FORMAT(1H1,////////5X,"ITEM DATA",//
3120            "NO.",T10,16/
3130            "ALC",T10,A6/
3140            "MMC",T10,2A6/
3150            "NOUN",T10,2A6/
3160            "UM",T10,A6/
3170            "NOUN",T10,2A6/
3180            "MGT",T10,2A6/
3190            "MGT 34",T10,2A6/
3200            "COST",T10,F12.2/)
3210C
3220          WRITE(2,143)IDEMND
3230          143  FORMAT(// " DEMANDS"/(1X,815))
3240          WRITE(2,143)IRETUR
3250          143  FORMAT(// " RETURNS"/(1X,815))
3260C

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3270C
3280C          DO PLOT
3290C
3300C
3310C          PREPARE FOR GRAFIKS WITH FORTRAN I/O
3320C
3330C
3360C
3370          CALL USET("DEVICE")
3380          CALL USET("PERCNTUNITS")
3390          CALL UDAREA(40.,90.,20.,90.)
3400C
3410          CALL UPSET("XLABEL","QTR NO. (1=JAN 71)\")
3420          CALL UPSET("YLABEL","NUMBER OF UNITS\")
3430          CALL USET("XBOTHLABELS")
3440          CALL USET("YBOTHLABELS")
3450C
3460          CALL USET("GRIDAXES")
3470          OPTS(1)="LINE"
3480          OPTS(2)="DASH"
3490          OPTS(3)="DASH"
3500          OPTS(4)="DASH"
3510          CALL UPSET("SEIDASH",32.)
3520          PTS(1) = NPIS
3530          PTS(2) = NPIS
3540          PTS(3) = NPIS
3550          PTS(4) = NPIS
3560C
3570          CALL UPRINT(50.,10., "----- GROSS UNIT DEMAND PER QTR")
3580          CALL UPRINT(50.,8., " - - - - UNITS RETURNED BY QTR")
3590          CALL UPLOT(XX,YY,2.,PTS,OPTS)
3600C
3610C          RETURN TO ALPHANUMERIC MODE
3620C
3630          CALL UAIN(CHAR)
3640          CALL UALPHA
3650          CALL UFND)
3660C
3670 9999 CONTINUE
3680          RETURN
3690          END
```

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