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AN ANALYSIS OF THE PRODUCTIVITY AND OPERATING COST OF
THE AEDC PROPULSION WIND TUNNELS

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Calspan Corporation

AEDC Division

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SUMMARY

An analysis of the productivity and operating cost of the AEDC Propulsion Wind Tunnels (PWT) has been performed using the database developed for the PWT Operations Analysis System (OAS). The analysis includes data from FY81 through FY86 and is divided into four categories consisting of (1) productivity, (2) direct cost, (3) labor, and (4) energy for each test type. Further analysis of the breakdown of the direct cost into labor, electricity, material, computer, and maintenance surcharge costs is also included. The databases for Tunnels 4T, 16T, and 16S are described in detail along with techniques used to generate the data and plots presented in this report. Additional applications of the use of the databases for specialized analysis is also demonstrated.

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NOMENCLATURE

AOH	Air-On Hours
ATP	Air-On Test Point
BAL	Force Test
BAP	Force and Pressure Test
CTS	Captive Trajectory System Test
DYD	Dynamic Drop Test
DYS	Dynamic Stability Test
FY7T	Three Month Transitional Period Between FY76 and FY77
GRD	Grid Test
I/R	Install/Remove Hours
MHR	Man-Hour
MAG	Magnus Test
MIS	Miscellaneous Test
NAB	Nozzle Afterbody Test
OP	Output Parameter - the Basic Measure of Quantity of Testing in the PWT Tunnels: One OP is Equal to One Run Number
OSH	Operating Shift Hour
PRS	Pressure Test
RUN	Run Number is a Group of ATP Recorded during One Sweep of the Primary Variable
SIP	Scaled Inlet Pressure Test
TYPE	Test Type
UOH	User Occupancy Hour, OSH - AEDC Downtime - I/R

SUBSCRIPTS

C	Tunnel 4T	$\left. \begin{array}{l} \text{BALC} \\ \text{BALS} \\ \text{BALT} \end{array} \right\} \text{ are } \left\{ \begin{array}{l} \text{4T Balance} \\ \text{16S Balance} \\ \text{16T Balance} \end{array} \right\} \text{ Tests.}$
S	Tunnel 16S	
T	Tunnel 16T	

1.0 INTRODUCTION

The Propulsion Wind Tunnel Facility includes five wind tunnels, of which three are used primarily for aerodynamic and propulsion user testing (4T, 16T, and 16S), and two are used as research facilities (1T and ART). This report covers the operation of Tunnels 4T, 16T, and 16S from FY81 to FY86.

A program has been underway for several years to improve the energy efficiency of the tunnels, improve the data production rates, reduce the manning requirements, and thereby decrease the operating cost. The PWT Operations Analysis System (OAS) was developed to quantify the savings and identify improvements with the largest cost savings. The OAS (Fig. 1) consists of a large database containing test statistics from each of the tunnels and supporting software for periodically updating the database. The OAS was developed during the analysis of the operations of Tunnels 16T and 4T which are documented in Ref. 1 and 2 respectively.

The work reported herein was performed by the Calspan Corporation, AEDC Division, operating contractor for Aerospace Flight Testing at AEDC, AFSC, Arnold AFS, Tennessee, under program element 65807F. The work was conducted under AEDC Project C640PW (Calspan Project P41G-OJ). The Air Force Project Manager was Capt. M. Taylor.

2.0 APPARATUS

2.1 TEST FACILITIES

Tunnel 4T is a closed-loop, continuous flow, variable density tunnel in which the Mach number can be varied from 0.2 to 1.3 and can be set at discrete Mach numbers of 1.6 and 2.0 using nozzle inserts placed over the permanent sonic nozzle. At all Mach numbers, the stagnation pressure can be varied from 160 to 3,400 psfa. The test section is 4 ft. square and 12.5 ft. long with perforated, variable porosity (0.5- to 10.0- percent open) walls. The test section is completely enclosed in a plenum chamber and permits part of the tunnel air flow to be removed through the perforated walls.

Tunnel 16S is a variable density continuous flow wind tunnel capable of being operated at Mach numbers from 1.5 to 4.75 and stagnation pressures from 160 to 2,300 psfa. The test section is 16 ft. square and 40 ft. long.

Tunnel 16T is a variable density continuous flow wind tunnel capable of being operated at Mach numbers from 0.06 to 1.6 and stagnation pressures from 160 to 4,000 psfa. The test section is 16 ft. square and 40 ft. long.

Each tunnel is equipped with a pitch sector with remote roll capabilities and a dual model support system for evaluating separation of stores from aircraft. Tunnels 16S and 16T also have the unique capability of testing full-scale propulsion and decelerator systems. The wind tunnels are described in detail in Ref 3.

2.2 COMPUTER HARDWARE

The OAS computer system consists of an IBM PC/XT with the following options:

- o 640K Memory
- o IBM Enhanced Graphics
- o Floppy Disk
- o 10 MB Hard Disk
- o IBM 3278/79 Terminal Emulator
- o Dual 10 MB Bernoulli® Disk Drive
- o Epson FX-286 Dot-Matrix Printer

The hard disk is used for working files and the Bernoulli disk drive system is used primarily for backup of the the database and the database analyses files. The Bernoulli system can be used in the same manner as the hard disk but also has the capability to allow removal of the 10 MB cartridges for storage outside the unit. Files that are no longer active can be archived and stored in the same manner as a floppy disk.

The terminal emulator will allow the IBM PC/XT to be used in the same manner as the IBM 3278 or 3279 terminals for loading information directly from the mainframe business computer.

2.3 COMPUTER SOFTWARE

Software for the OAS computer consists of:

- o Lotus 123®, Version 2 - Multifunction Worksheet Package Consisting of Spreadsheet, Database, and Graphics Options
- o Microsoft Chart® - Presentation Graphics
- o Microrim R Base 5000® - Database Package
- o Microstuf Crosstalk® - Software for Communications Between the OAS Computer and the Mainframe Business Computer

3.0 DATABASE DESCRIPTION

3.1 GENERAL

3.1.1 Database Layout

The standard Lotus 123 database format, with the exception of the macros, is used for all the databases described in this report. The Lotus 123 database option is described in detail in Ref. 4. Each database consists of four components including:

- o Data
- o Criteria
- o Outputs - Resulting From Criteria Query
- o Macros - Database Management and Fiscal Year Query

A layout of the various components of the database is presented in Fig. 2. Examples of each of the database components are shown in Fig. 3.

3.1.2 Database Manipulations

Database manipulations consist of sorting and querying the data according to preset criteria. Sorting is particularly useful for temporarily rearranging the data for entry or modification of the data. Sorting also can be used to lump the data into groups of like parameters for analysis. The data can be sorted on any of the 34 parameters using a primary and secondary key parameter, with alpha or numeric characters, and in ascending or descending order. The main database or the output from the database query may be sorted.

Data query is useful for preparing reports. The reports can be generated directly from the database or generated and passed on to another file for further processing. Examples of both types will be demonstrated later in this report. Criteria for the 34 parameters may be set individually or in any combination up to all at the same time. The criteria may consist of naming all or a portion of the parameter, providing a range for the parameter, or including the parameter in an equation.

Macros are commands that take the place of manual keystrokes. Any keystroke that applies to Lotus 123 can be replaced with a macro command. This allows a series of keystrokes to be automated and all macro commands in the string will be executed after invoking the macro. For example, without the macro, the Fiscal Year query of the database used in this report would require 303 keystrokes for each test type.

3.2 TEST DATABASE

The test database for each of the three tunnels consist of a listing of each test entry in the tunnel from the beginning of FY75 until the end of FY86. The data are currently installed on the Lotus 123 database option. However, the database can be

quickly translated to most of the popular database programs using the Lotus 123 translation option. Each test entry consists of 34 parameters that identifies the test, describes productivity, and lists the direct costs.

The number of Air-On Test Points (ATP) and Output Parameters (OP) on a test are determined with a computer program called OPSTAT which is run on the AMDAHL 5606 base computer. Despite continuous improvements to the program and operating procedures, a small percentage of the OP's and ATP,s do not get counted. Although the percentage is small, the effects may be noticed on test types where only a few tests are run in a given year.

A complete listing of the Test Database for the three tunnels is given in Appendix A.

3.3 WORK PHASE DATABASE

The work phase database also contains information on completed test projects and the layout of the database is exactly like the test database (Fig. 2). The work phase database is broken into the eight work phases, described in Ref. 1 and 2, and includes information contained in the Test Unit Utilization Reports (TUUR) and the Project Resource Statements (Report CA 793C) which lists the manhours and cost used on a project. A total of 27 unique parameters for each project are included in the database. Each project includes 9 lines of data which is made up of the eight work phases and the totals. Some of the projects include multiple test type entries, however they are not broken down by test types as in the test database.

A sample listing of the Work Phase Database for the three Tunnels is presented in Appendix B.

4.0 PRODUCTIVITY AND OPERATIONS COST ANALYSIS

4.1 GENERAL

The test database described in section 3.2 was queried with a special macro that collects data for a specified test type for each fiscal year and sums each parameter. The purpose of the query was to determine the trends with fiscal year for each of the totals. The collection of the totals is essentially automatic with one pass through the macro producing totals for one test type. These totals were passed on to a separate file for further calculations.

Separate files were created for plotting that include the raw totals and ratios that indicate productivity, direct operating cost, manhour and electricity statistics. The following ratios were calculated:

- | | |
|-----------|-----------|
| ● ATP/UOH | ● MHR/UOH |
| ● ATP/AOH | ● MHR/AOH |
| ● OP/UOH | ○ MHR/OSH |
| ● OP/AOH | ● MHR/OP |
| ● \$/UOH | ● MHR/ATP |
| ● \$/AOH | ● MWH/UOH |
| ○ \$/OSH | ● MWH/AOH |
| ● \$/OP | ○ MWH/OSH |
| ● \$/ATP | ● MWH/OP |
| | ● MWH/ATP |

These files are listed in Appendix C for Tunnels 4T, 16T, and 16S. Only those ratios preceded by a dark bullet are plotted in this report. Several test types are included in the listing in Appendix C including:

- | <u>4T</u> | <u>16T</u> | <u>16S</u> |
|-----------|------------|------------|
| ● ALL | ● ALL | ● ALL |
| ● BALC | ● BALT | ○ BALS |
| ○ BAPC | ● BAPT | ○ BAPS |
| ● CTSC | ○ DYST | ○ MISS |
| ● DYDC | ○ FSIT | ○ NABS |
| ○ DYSC | ● MIST | ○ SIPS |
| ● GRDC | ● NABT | |
| ○ MAGC | ● PRST | |
| ○ MISC | ● SIPT | |
| ○ NABC | | |
| ○ PRSC | | |

Only those test types preceded with a dark bullet are plotted in this report.

The level of effort in each of the tunnels, consisting of the variation of operating shift hours (OSH), user occupancy hours (UOH), air on hours (AOH), and install/remove hours (I/R) is presented in Fig. 4. Also included on the plots is the total

number of tests conducted for each fiscal year in each tunnel. The number of tests located on the upper left plot applies to all plots on that page (typical throughout the report).

4.2 PRODUCTIVITY STATISTICS

Productivity statistics are described by the ratio of the two productivity parameters, (OP and ATP), to specified units of time (AOH and UOH). The productivity statistics as a function of fiscal year for All Tests and several test types in Tunnels 4T, 16T, and 16S are presented in Figs. 5 through 7 respectively.

The statistics represent the total accumulated for each year, and in some years, only a few tests of a given type were run. Statistics of this type may distort the conclusions reached. For example, see Fig 6b where, in FY86, only one BALT test was run and, because of the requirements of that test, the ATP/UOH was very low. The best trends with fiscal year were the statistics for All Tests (Figs. 5a, 6a, and 7a) where many tests are included in the averages. Additional tunnel statistics are presented in Fig. 8 that will assist in understanding the trends.

4.3 DIRECT OPERATING COST STATISTICS

Direct operating cost is the amount charged directly to the tunnel users and consists of labor costs, material costs, electricity costs, computer costs, and maintenance surcharges. The cost of the various components as a percentage of the total during the period from FY81 to FY86 is presented in Fig. 9 for Tunnels 4T, 16T, and 16S. In Tunnel 4T (Fig. 9a), the cost of labor and electricity dominated the early year totals. In recent years, labor costs are taking a larger percentage of the resources. Tunnel 16T (Fig. 9b) is more energy cost intensive. However, since FY81 the percentage of the overall cost due to energy has been decreasing. The escalating cost of energy was offset by reductions in energy usage with improvements in tunnel operations. Tunnel 16S (Fig. 9c) is even more energy intensive than Tunnels 4T and 16T, however, the trends are erratic because of the limited testing during this period. For all tunnels, the material and labor surcharges have increased to become a significant part of the operating cost.

Cost Statistics for All Tests and the various test types in Tunnels 4T, 16T, and 16S are presented in Figs. 10 through 12 respectively. The ratio of total dollar cost to UOH, AOH, OP, and ATP are presented as a function of fiscal year.

The greatest consumer of resources in conducting tests is labor and electricity. The databases were used to extract the average \$/manhour and \$/megawatt hour rates over the reporting period and the results are presented in Fig. 13. The rate of increase of manhour cost has been reduced while the electricity rates peaked in FY82 at about 76 \$/MWH and were reduced by renegotiating the TVA power contract for a different method of determining demand charges.

Of all the cost statistics shown in Figs. 10 through 12, the best indicator of the data cost is the unit cost of a data point (\$/ATP). The variation of \$/ATP with fiscal year (Figs. 10a, 11a, and 12a) shows approximately the same trends as the cost of electricity over the same period (Fig. 13). To determine the cost of a data point neglecting the changes in labor and electricity costs, calculations were made with the rate variations and with constant labor and electricity rates as follows:

$$\begin{aligned} \$/\text{ATP} = & \$/\text{ATP}\{\text{labor}\} + \$/\text{ATP}\{\text{material}\} + \$/\text{ATP}\{\text{electricity}\} \\ & + \$/\text{ATP}\{\text{computer}\} + \$/\text{ATP}\{\text{surcharge}\} \end{aligned} \quad (1)$$

where:

$$\$/\text{ATP}\{\text{labor}\} = \text{MHR}/\text{ATP} * \$/\text{MHR} \quad (2)$$

$$\$/\text{ATP}\{\text{electricity}\} = \text{MWH}/\text{ATP} * \$/\text{MWH} \quad (3)$$

By substituting the labor and electricity rates for FY81 into equations (2) and (3) and holding them constant over the FY range, most of the effects of inflation and contract changes are eliminated. However, changes in the AEDC accounting system such as adding maintenance surcharges and shifting personnel charges from overhead accounts to direct project charges (security guards, plant personnel, etc) cannot be normalized. Also, significant increases in the average test complexity (sophisticated models, high-pressure air usage, simultaneous multiple force and pressure measurements, nozzle block usage, etc) have tended to increase the cost of a data point. The results of the calculations are shown in Fig. 14. Despite the factors tending to increase data cost, the normalized cost has actually decreased (4T) or been held near constant (16T).

4.4 LABOR STATISTICS

The variation of total manhours (Calspan + Support + Overtime) per UOH, AOH, OP, and ATP with fiscal year for All Tests and several test types for Tunnels 4T, 16T, and 16S are presented in Figs. 15 through 17 respectively.

4.5 ELECTRICITY STATISTICS

The variation of megawatt hours (MWH) per UOH, AOH, OP, and ATP with fiscal year for All Tests and several test types for Tunnels 4T, 16T, and 16S are presented in Figs. 18 through 20 respectively.

These plots illustrate the fact that in Tunnel 4T (Fig. 18a), the use of electricity per AOH has been relatively constant over the reporting time period. A major renovation of Tunnel 4T is scheduled to start in FY89 to add an independent compressor especially designed for 4T that will significantly reduce the use of electricity.

5.0 SPECIAL ANALYSIS TECHNIQUES

5.1 WORK PHASE ANALYSIS

5.5.1 Project Resource Prediction

The work phase database described in Section 3.3 and listed in Appendix B was developed to use as a tool to predict outyear estimates for conducting test projects. The typical procedure in the past has been to collect data from completed CT-793's and hand plot data from a particular test type and work phase (for example: TOTAL MANHOURS-vs-UOH). The result is that total man-hours can be estimated if UOH are known. Since UOH are known prior to a test, this is the best method for predicting not only manhours, but other resources as well. This manual process is laborious and difficult because the data is often very erratic and must be repeated for each parameter required.

The work phase database uses the same format as the Test database. Output format 1 (Fig. 21) includes a special section for displaying the results of a linear regression performed on any two parameters on the database. The two main outputs from the regression is the constant (intercept) and the x coefficient (slope). The intercept and slope are used in the linear equation:

$$\text{Manhours} = \text{Intercept} + \text{Slope} * \text{UOH} \quad (4)$$

to determine total manhours. In the example shown in Fig. 22 the database has been queried to obtain work phase 5 data (test phase) on all tests in Tunnel 16T. The actual and calculated values of total manhours are shown to obtain a visual determination of the quality of the curve fit. Note that on this example, the intercept was calculated at 1355.2 manhours, while on the plot, the curve fit is forced to intercept at zero. On a typical test, the total manhours for work phase 5 should be a function of UOH only and thus should intercept at zero. The LOTUS 123 regression option has the ability to recalculate the line coefficients with zero intercept.

In summary, the typical steps in analyzing test parameters by work phase are:

- o Load the Work Phase Database for a given tunnel
- o Enter the Test Type and Work Phase in the Criteria line
- o Query the Database
- o Choose the Two Parameters to be Analyzed
- o Use the Linear Regression Option to determine Intercept and Slope
- o Recalculate the Linear Curve Fit

- o Plot the Actual and Calculated Dependent Variables versus the Independent variable
- o Adjust the Intercept as Required

5.1.2 Fiscal Year Trends

Another use of the workphase database is to determine the trends of the use of resources with time for the project work phases. The database is queried with a macro to collect the average value of each parameter for a series of fiscal years, for each work phase, and the totals. One pass through the macro produces the output presented in Fig. 23 which is stored in the output 2 area of the database.

These data were arranged in the manner shown in order to produce the plots shown in Fig. 24. In this example the variation of the average total manhours with fiscal year is shown, however, any of the parameters in the output can be shown by resetting the plot vertical axis.

5.2 ECONOMIC ANALYSIS

One of the prime uses of the information in the databases is the determination of the economic viability of a project. One of the key parameters in the analysis is the payback period. There are many techniques for calculating the payback period, however, one used on the 4T Flexible Nozzle Project will be described.

In Tunnel 4T, ten different test types are run, however, most of the tests fall under two categories. That is, force tests (BALC) and store separation tests (CTSC and GRDC). According to the statistics (Fig. 25), the two groups of testing run about 35% for force tests and 46% for store separation tests. Baseline tests were developed for each group and they are presented in Appendix D. The baseline tests were developed into a spreadsheet to take advantage of the ease of varying parameters and quick recalculation capabilities. The time, manhours, and electricity for running the tests for each of the two test groups were determined using the current mode of testing, and then the same test assuming the installation of a flexible nozzle. The results are shown in appendix D and are summarized as follows:

Force Test	OSH	MWH	AOH	UOH	MHRS
Transonic	57.7	1,046.4	25.6	37.7	843.7
Supersonic	41.6	658.5	10.3	29.6	617.3
Total	99.3	1,704.9	35.9	67.3	1,461.1
Trisonic	65.1	1,316.0	31.9	45.1	960.8
Savings/Test	34.2	388.9	4.0	22.2	500.3

Separation Test	OSH	MWH	AOH	UOH	MHRS
Transonic	83.7	1,575.1	42.6	51.7	1,210.7
Supersonic	50.8	979.3	24.6	36.8	780.8
Total	134.5	2,554.4	67.2	88.5	1,991.5
Trisonic	103.5	2,279.8	59.4	71.5	1,527.5
Savings/Test	31.0	274.6	7.8	17.0	464.0

The savings per test must be propagated to annual cost savings in order to calculate the payback period. The database was used to determine that the average UOH used per year in Tunnel 4T is approximately 2,000 (Fig. 25). Assuming a 50/50 split between force and separation testing, the number of tests run annually would be:

$$\begin{aligned} \text{Tests/year} &= \frac{\text{UOH/YEAR}}{\text{UOH/TEST(FORCE)} + \text{UOH/TEST(SEPARATION)}} && (5) \\ &= \frac{2,000}{45.1 + 71.5} = 17 \text{ of each test type} \end{aligned}$$

The annual savings of electricity would be:

$$\text{MWH/YEAR} = 17 * 388.9 + 17 * 274.6 = 11,280$$

The annual savings of manhours would be:

$$\text{MHR/YEAR} = 17 * 500.3 + 17 * 464.0 = 16,393$$

Assuming that the nozzle will be operational by FY88, the cost for electricity and labor is projected to be \$50/MWH and \$23/MHR respectively. The annual savings derived from the addition of a flexible nozzle in Tunnel 4T would be:

$$\text{Cost Savings/Year} = 11,280 * 50 + 16,393 * 23 = \$941,000$$

The estimated cost of the nozzle is \$3,500,000 in FY88 dollars. Therefore the simple payback period (SPB) is:

$$\text{SPB} = \frac{3,500,000}{941,000} = 3.7 \text{ Years}$$

6.0 TUNNEL 16S ANALYSIS

The OAS shown in Fig. 1 includes a special routine (TOCCP) to calculate the annual cost of operating Tunnels 4T and 16T. The statistical parameters required for the calculations were developed and documented in Ref. 1 and 2. Some of the parameters were derived from a collection of tunnel test conditions recorded on the PWT Real Time Computer (RTC) over a lengthy time period. These same test parameters were not recorded for Tunnel 16S because of the erratic operation schedule. Therefore, it is not possible to reliably make the cost calculations for Tunnel 16S until similar data are recorded.

Tunnel 16S has been recently brought back on line and is ready for normal operations. A project is under way to upgrade the RTC for all the Tunnels in PWT which will automatically calculate and record the statistical parameters required for the TOCCP. In the interim, the 16S routine has been set up such that when the statistical parameters become available, the calculations can be made.

7.0 FUTURE WORK

Hardware and software has been procured to connect the OAS to the AEDC mainframe business computer in order to electronically download test and project statistics. Successful experiments have been run on several other similar systems in downloading information from the mainframe system. However, the OAS has not been connected due to the PWT office renovation. A routine must be developed to automate the monthly update of the database to eliminate input errors and reduce the time required.

In the development of the software for the new RTC, inputs were made that will provide all the tunnel statistics required for the OAS calculations. That system will be placed on line over the next two years and will require coordination of the interfaces between the OAS and the RTC.

The special analysis techniques described in this report are examples of the type of information that can be derived from a detailed database. These techniques need to be developed further in order to reduce the time for preparing for tests and to make better estimates of cost of testing and capital improvement costs.

8.0 CONCLUDING REMARKS

An analysis of the productivity and operating costs of the AEDC Propulsion Wind Tunnels has been made using the Operations Analysis System. Based on the results of the study the following conclusions are made:

- o The Operations Analysis System database can be used to monitor tunnel productivity and cost statistics. In addition, the database is useful in analyzing the economic justification of improvement projects and for improving project cost estimates.
- o The cost of a data point, when normalized to FY81 for manhour and electricity cost changes, has been decreased or maintained near-constant. This trend has been obtained despite significant increases in test complexity and changes in project cost accounting.
- o General trends of the productivity and cost statistics show that the tunnel improvements are producing favorable results.

REFERENCES

1. T.O. Shadow, "Progress Report on an Analysis of 16T Operations", AEDC-TMR-83-P27, December 1983.
2. T.O. Shadow, "An Analysis of Tunnel 4T Operations", AEDC-TMR-85-P16, November 1985.
3. Test Facilities Handbook (Twelfth Edition), "Propulsion Wind Tunnel Facility, Vol. 4", Arnold Engineering Development Center, March 1984.
4. LOTUS 123 REFERENCE MANUAL, Lotus Development Corporation, Copyright, 1985.

PWT OPERATIONS ANALYSIS SYSTEM (OAS)

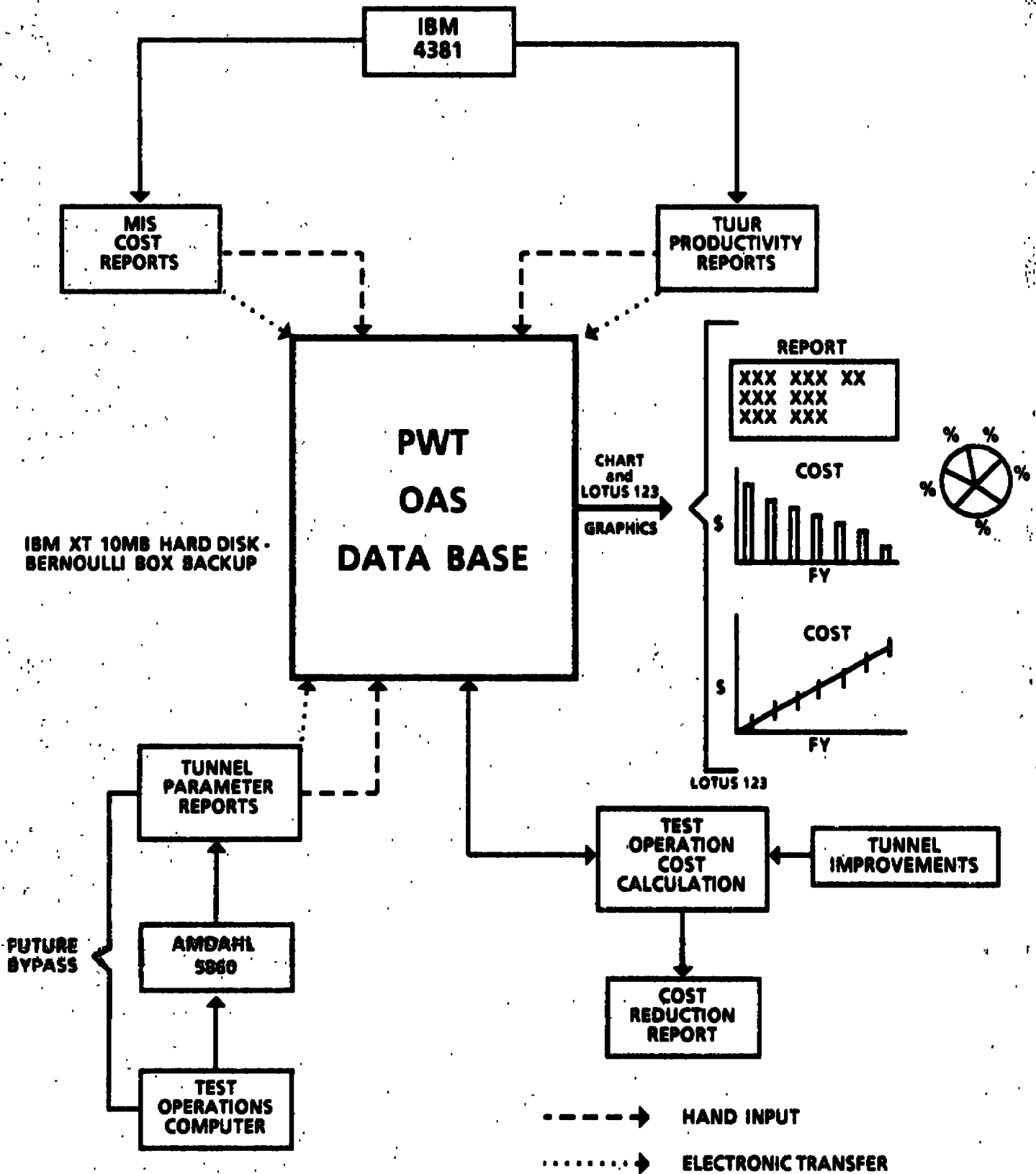


Figure 1. PWT Operations Analysis System

DATABASE LAYOUT

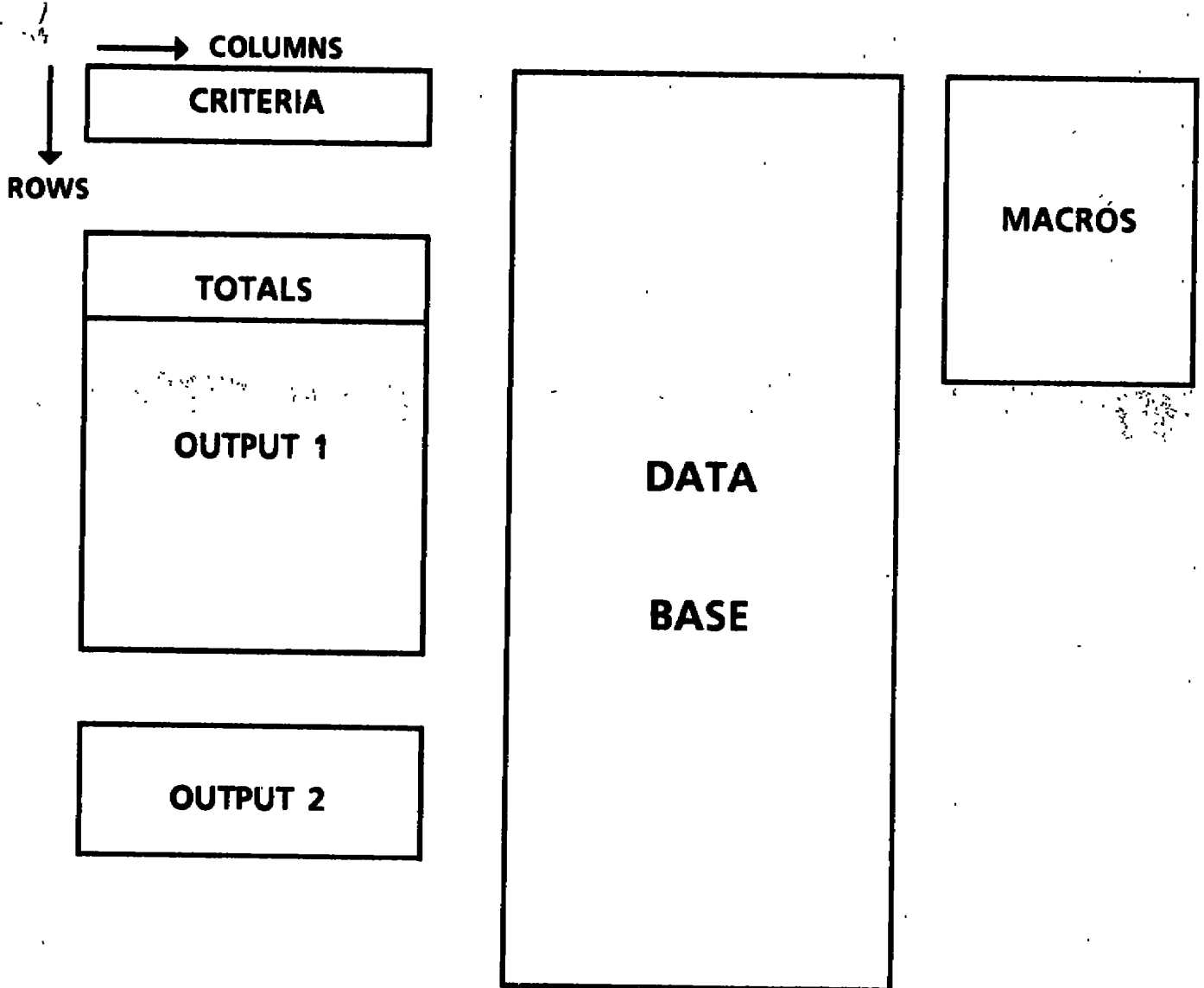


Figure 2. Database Layout

16T TEST STATISTICS DATA BASE

28-Aug-86

INPUT: ITEMS IN THE DATABASE
410

TEST PROJ	A.F.	SPONSOR	TITLE	TYPE	PD	FY	P.E.	ENTR	DSH	UDN	AGH	I/R	DOWNTIME		MANHOURS				COST (\$)										
													SCHED	AEDC	OP	ATP	CALSPAN	SUPPORT	OT	TOTAL	LABOR	MAT.	TRAV.	PSI	ELEC	CCWF	OTHER	TOTAL*	
344	60	SAMSO	NI	PRST	1.1	75	D. BAKER	1	64.0	60.4	37.3	0.0	0.0	3.6	4,709	91	1,630	2,673	363	264	3,300	28,736	1,127	0	398	24,792	0	0	55,053
345	65	AFFDL	B-1 WEAPONS BAY	PRST	1.2	75	J. RIDDELL	1	111.5	97.0	54.1	0.0	0.0	14.5	9,129	418	791	3,807	517	376	4,700	39,000	1,000	0	582	40,000	0	0	80,562
352	90	AEDC	16T IMPROVEMENTS	PRST	1.3	75	F. JACKSON	1	7.5	7.5	6.0	0.0	0.0	0.0	559	14	136	626	85	62	773	10,000	0	0	131	8,960	0	0	18,131
332	81	AFFDL	ONERA CORR	PRST	2.1	75	J. SPURLIN	1	73.0	48.3	25.9	8.5	0.0	12.0	3,798	160	1,400	2,592	352	256	3,200	26,000	0	0	335	20,000	0	0	46,335
346	51	AFFDL	ATV FLOWFIELD	GRDT	2.2	75	J. BLACK	1	176.0	116.9	53.0	40.3	0.0	6.8	4,729	212	2,120	7,958	1,078	784	9,800	80,000	3,000	0	953	48,000	0	0	131,953
350	75	ARMY	155MM ROCKET	MAST	2.3	75	W. WHITE	1	112.0	65.2	46.3	31.8	0.0	6.8	7,127	51	1,142	4,941	671	488	6,100	51,000	1,000	0	815	60,000	0	0	112,815
351	80	AFFDL	AGARD AFTERBODY	MAST	3.1	75	L. GALISHER	1	79.2	73.6	52.9	0.0	0.0	5.6	5,503	102	1,005	5,589	759	552	6,900	52,000	2,000	0	611	30,000	0	0	84,611
352	90	AEDC	16T IMPROVEMENTS	PRST	3.2	75	F. JACKSON	1	0.8	0.8	0.8	0.0	0.0	0.0	251	1	30	83	11	8	103	2,213	35	0	33	2,350	0	0	4,631
349	62	ADTC	RSED II	PRST	3.3	75	S. NACLARAHAN	1	48.0	36.4	15.6	11.0	0.0	0.6	1,625	89	1,843	2,754	374	272	3,400	28,000	0	0	313	15,000	0	0	43,313
356	72	AFFDL	Y-24C	BALT	3.4	75	F. KEENEY	1	32.0	27.8	17.3	1.8	0.0	2.4	2,338	90	1,112	1,620	220	160	2,000	17,000	0	0	204	11,000	0	0	28,204
354	87	SAMSO	NI	BALT	3.5	75	D. REICHENAU	1	80.0	76.2	50.4	0.0	0.0	3.8	5,382	249	3,330	3,078	418	304	3,800	34,000	2,000	0	487	31,000	0	0	67,487
359	91	ASD	YF-16 A/B	BALT	4.1	75	J. BLACK	1	80.0	72.7	32.9	2.7	0.0	8.2	5,517	124	2,480	4,459	607	441	5,517	47,500	0	0	722	51,690	0	0	99,912
357	92	ASD	YF-16 A/B	BALT	4.2	75	J. SPURLIN	1	64.0	60.2	29.4	0.0	0.0	3.0	3,910	122	2,608	3,168	430	313	3,911	33,670	500	0	515	36,640	0	0	71,325
359	91	ASD	YF-16 A/B	BALT	4.3	75	J. BLACK	1	96.0	84.2	41.7	0.0	0.0	8.2	5,870	184	2,645	4,754	646	470	5,869	50,530	0	0	768	55,000	0	0	106,298
357	92	ASD	YF-16 A/B	BALT	4.4	75	J. SPURLIN	1	64.0	62.5	27.8	0.0	0.0	2.3	3,698	141	2,159	2,995	407	296	3,698	31,840	500	0	487	34,650	0	0	67,477
361	97	AFAPL	EXHAUST NOZZLE	MAST	5.1	75	E. LUCAS	1	51.0	49.3	25.0	0.0	0.0	1.7	3,037	71	911	3,321	451	328	4,100	38,000	0	0	422	20,000	0	0	58,422
369	04	AEDC	16T CALIBRATION	PRST	5.2	75	F. JACKSON	1	32.0	32.0	24.2	0.0	0.0	0.0	3,433	100	599	2,835	385	280	3,500	30,000	0	0	313	13,000	0	0	43,313
344	60	SAMSO	NI	MAST	5.3	75	D. BAKER	1	48.0	46.6	28.9	0.0	0.0	1.4	3,515	68	696	2,025	275	200	2,500	22,264	873	0	308	19,208	0	0	42,653
362	76	AFATL	FNU-1108	BALT	5.4	75	J. COLLINS	1	32.0	15.8	10.4	12.0	0.0	0.2	890	39	434	1,458	198	144	1,800	15,000	0	0	182	10,000	0	0	25,182
358	95	AFFDL	APSI INLET	SIPT	6.1	75	P. LAUER	1	48.0	47.4	31.0	0.0	0.0	0.6	4,439	79	393	2,673	363	264	3,300	27,000	0	0	415	30,000	0	0	57,415
343	63	ASD	B-1 INLET	SIPT	6.2	75	P. LAUER	1	80.0	77.5	52.4	0.0	0.0	2.5	7,845	152	720	1,048	145	105	1,318	11,064	1,742	0	159	9,087	0	0	22,052
370	10	ASD	YF-17	PRST	6.3	75	J. BLACK	1	53.8	36.1	15.1	12.0	0.0	1.7	2,867	47	258	2,673	363	264	3,300	28,000	1,000	0	378	23,000	0	0	52,378
352	90	AEDC	16T IMPROVEMENTS	PRST	6.4	75	F. JACKSON	1	1.2	1.2	1.2	0.0	0.0	0.0	112	3	11	126	17	12	155	1,330	18	0	17	1,050	0	0	2,416
355	88	ADTC	AIR SLEN	MAST	7.1	75	B. PETERS	1	78.8	74.9	44.1	0.0	0.0	2.3	5,182	174	1,408	2,121	288	210	2,619	21,613	254	0	317	77,912	0	0	100,096
355	88	ADTC	AIR SLEN	MAST	7.2	75	B. PETERS	1	16.0	15.3	7.0	0.0	0.0	2.3	823	29	253	316	43	31	390	3,219	38	0	47	11,604	0	0	14,908
368	05	ARMY	HIGH ALPHA AERD	BALT	7.3	75	F. KEENEY	1	64.0	46.7	25.4	12.0	0.0	4.3	2,877	129	3,769	2,754	374	272	3,400	29,000	0	0	429	30,000	0	0	59,429

22

a. Database

Figure 3. Examples of Database Components

16T TEST STATISTICS DATA BASE

02-Nov-86

CRITERIA:		DOWN										MANHOURS					COST (\$)											
TEST PROJ	A.F. SPONSOR	TITLE	TYPE	PD	FY	P.E.	ENTR	DSH	UDN	ACH	I/R	AEDC	MMH	OP	ATP	CALSPAN	SUPPORT	OT	TOTAL	LABOR	MAT.	TRAV.	PSI	ELEC	COMP	OTHER	TOTAL*	
			BALT		75																							
15 = ITEMS FOUND BASED ON CRITERIA																												
TOTALS:		15	1,136.0	997.7	464.1	78.9	50.1	57,823	2,563	40,147	45,606	6,193	4,504	56,304	484,005	6,987	0	7,798	580,903	0	0	1,079,693						
AVERAGES:		1	75.7	66.5	30.9	5.3	3.3	3,855	171	2,676	3,040	413	300	3,754	32,267	466	0	520	38,727	0	0	71,980						

TEST PROJ	A.F. SPONSOR	TITLE	TYPE	PD	FY	P.E.	ENTR	DSH	UDN	ACH	I/R	AEDC	MMH	OP	ATP	CALSPAN	SUPPORT	OT	TOTAL	LABOR	MAT.	TRAV.	PSI	ELEC	COMP	OTHER	TOTAL*	
356	72	AFFDL	I-24C	BALT	3.4	75	F. KEENEY	1	32.0	27.8	17.3	1.8	2.4	2,338	90	1,112	1,620	220	160	2,000	17,000	0	0	204	11,000	0	0	28,204
354	87	SHWSO	NI	BALT	3.5	75	D. REICHENAU	1	80.0	76.2	50.4	0.0	3.8	5,382	249	3,330	3,078	419	304	3,800	34,000	2,000	0	487	31,000	0	0	67,487
359	91	ASD	YF-16 A/B	BALT	4.1	75	J. BLACK	1	80.0	72.7	32.9	2.7	8.2	5,517	124	2,480	4,469	607	441	5,517	47,500	0	0	722	51,690	0	0	99,912
357	92	ASD	YF-16 A/B	BALT	4.2	75	J. SPURLIN	1	64.0	60.2	29.4	0.0	3.0	3,910	122	2,608	3,168	430	313	3,911	33,670	500	0	515	36,640	0	0	71,325
359	91	ASD	YF-16 A/B	BALT	4.3	75	J. BLACK	1	96.0	84.2	41.7	0.0	8.2	5,870	184	2,645	4,754	646	470	5,869	50,530	0	0	768	55,000	0	0	106,299
357	92	ASD	YF-16 A/B	BALT	4.4	75	J. SPURLIN	1	64.0	62.5	27.8	0.0	2.3	3,698	141	2,159	2,995	407	296	3,698	31,840	500	0	487	34,650	0	0	67,477
362	76	AFATL	FNU-117B	BALT	5.4	75	J. COLLINS	1	32.0	15.8	10.4	12.0	0.2	890	39	434	1,458	198	144	1,800	15,000	0	0	182	10,000	0	0	25,182
368	05	AFRY	HIGH ALPHA AERO	BALT	7.3	75	F. KEENEY	1	64.0	46.7	25.4	12.0	4.3	2,877	129	3,769	2,754	374	272	3,400	29,000	0	0	429	30,000	0	0	59,429
372	09	ASD	F-15/A1H-7F	BALT	7.7	75	R. MEYER	1	32.0	19.6	4.9	11.0	1.4	545	18	81	1,296	176	128	1,600	13,000	0	0	138	8,000	0	0	19,138
367	02	ASD	ADM-34R (S)	BALT	8.2	75	C. RIDDLE	1	48.0	46.2	19.1	1.6	0.2	1,487	120	986	2,268	308	224	2,800	24,052	2,122	0	396	28,296	0	0	54,866
375	26	AFFDL	I-24C	BALT	9.4	75	E. WASHINGTON	1	16.0	11.0	5.6	5.0	0.0	670	31	375	1,134	154	112	1,400	12,000	0	0	138	7,000	0	0	19,138
347	45	AFFDL	TACT WINGSOPM	BALT	9.6	75	F. KEENEY	1	80.0	65.5	28.6	9.8	4.7	3,720	222	2,715	3,240	440	320	4,000	35,000	0	0	560	42,000	0	0	77,560
381	29	AEDC	WF-42/10 DEG CONE	BALT	10.1	75	R. MEYER	1	64.0	48.3	25.7	11.0	4.7	2,885	171	2,070	2,511	341	248	3,100	25,000	0	0	407	31,000	0	0	56,407
389	93	AFFDL	ADV TECH WING	BALT	10.2	75	J. SPURLIN	1	208.0	207.3	89.1	0.0	0.4	9,635	430	5,519	6,966	946	688	8,600	73,669	1,865	0	1,513	132,418	0	0	209,465
380	22	ASD	F-16	BALT	10.5	75	M. WHITE	1	176.0	153.7	75.8	12.0	6.3	8,399	493	9,864	3,895	529	385	4,809	42,744	0	0	851	74,209	0	0	117,804

TUNNEL 16T TEST STATISTICS

FY	TYPE	DOWN										MANHOURS					COST (\$)					
		ENTR	DSH	UDN	ACH	I/R	AEDC	MMH	OP	ATP	CALSPAN	SUPPORT	OT	TOTAL	LABOR	MAT.	TRAV.	PSI	ELEC	COMP	OTHER	TOTAL*
75	BALT	15	1,136.0	997.7	464.1	78.9	50.1	57,823	2,563	40,147	45,606	6,193	4,504	56,304	484,005	6,987	0	7,798	580,903	0	0	1,079,693
76	BALT	10	1,208.2	1,133.4	508.4	45.5	60.3	60,147	2,783	56,588	37,978	5,158	3,751	46,887	432,904	5,386	0	10,777	1,041,217	0	0	1,489,984
77	BALT	5	521.0	457.4	218.2	35.0	28.6	27,964	1,340	19,530	29,687	4,032	2,932	36,650	342,660	9,250	0	5,816	447,530	0	0	805,256
77	BALT	19	1,664.0	1,321.2	601.4	229.4	112.8	70,027	3,145	45,885	65,460	8,890	6,465	80,815	834,013	10,137	0	13,072	952,753	0	0	1,809,975
78	BALT	10	846.2	581.5	322.5	209.4	53.3	38,262	1,923	31,661	32,724	4,444	3,332	40,400	466,000	3,000	0	7,529	566,300	0	0	1,042,329
79	BALT	8	554.2	396.3	277.2	127.9	20.1	29,889	1,769	35,303	28,735	3,905	2,940	35,500	435,100	4,000	0	11,349	1,116,900	0	0	1,571,349
80	BALT	7	526.7	411.7	252.2	74.5	26.4	27,866	2,440	41,570	25,969	3,527	2,565	32,660	467,200	23,493	0	12,937	1,287,690	57,683	0	1,858,912
81	BALT	7	400.7	281.4	144.7	133.5	42.6	17,075	1,369	21,144	29,540	2,120	730	32,390	512,200	12,882	0	12,314	1,167,940	75,779	0	1,780,816
82	BALT	5	448.7	318.3	189.3	33.5	90.3	20,255	1,670	28,015	24,188	948	1,131	26,267	448,668	157	0	2,776	1,504,530	77,099	52,324	2,085,574
83	BALT	2	387.1	276.3	144.5	78.1	27.7	15,827	1,710	26,215	26,644	1,151	2,040	29,935	534,302	1,253	0	4,976	1,145,602	99,495	110,213	1,895,048
84	BALT	2	385.7	235.1	134.5	93.7	46.2	12,510	1,187	19,862	16,185	2,315	3,103	21,603	408,735	2,574	858	8,946	922,414	37,326	90,922	1,471,775
85	BALT	2	692.6	411.1	246.3	247.1	25.2	24,479	2,075	43,091	22,520	1,168	6,198	29,867	602,909	1,707	0	18,046	1,290,319	78,003	153,356	2,164,030
86	BALT	1	79.0	55.4	11.6	43.6	0.0	970	162	1,584	2,845	408	247	3,500	89,606	12,475	0	1,253	28,220	1,842	21,198	155,192

b. Database Criteria, Output 1, and 2

Figure 3. Continued

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MENU CERASE          DERASE          POUTPUT          INPUTP          FYPRMT          QUIT
      CRITERIA ERASE OUTPUT ERASE PRINT OUTPUT PRINT INPUT PRINT FY DATA READY MODE
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      /REA7.AD7*/XGBM19* <----- CRITERIA ERASE

      /REA16.AD180*/XGBM19* <----- OUTPUT ERASE

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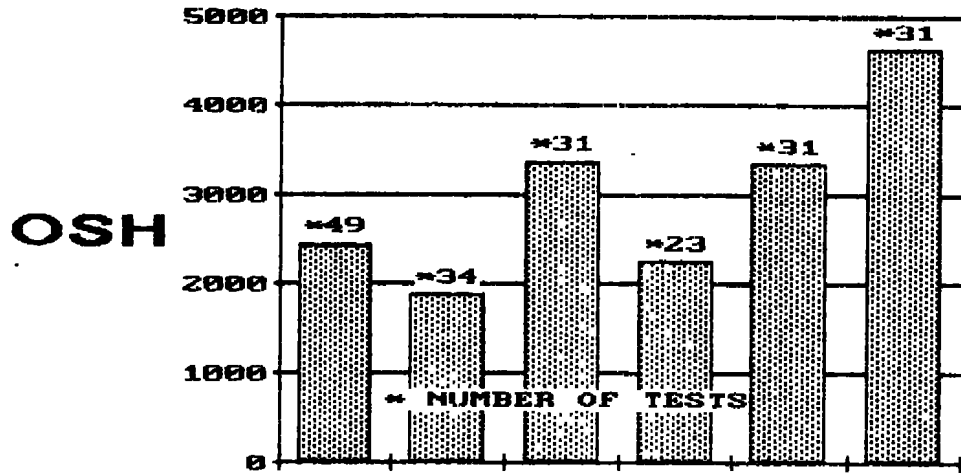
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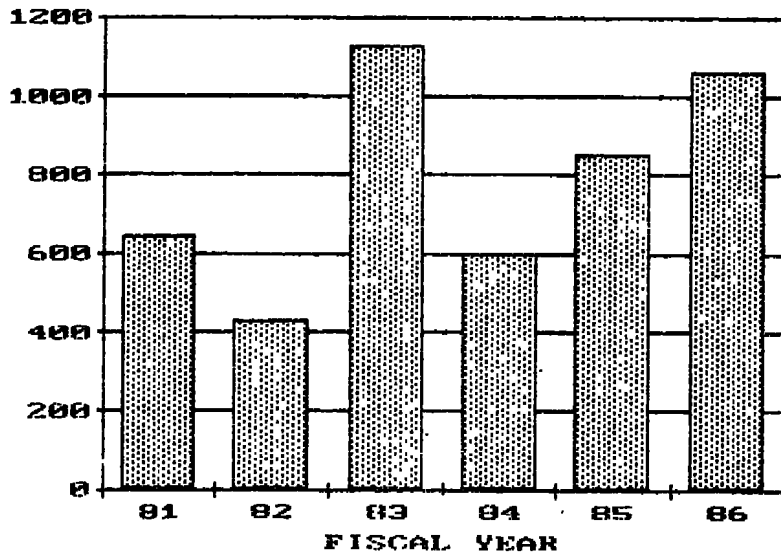
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c. Database Macros
Figure 3. Concluded

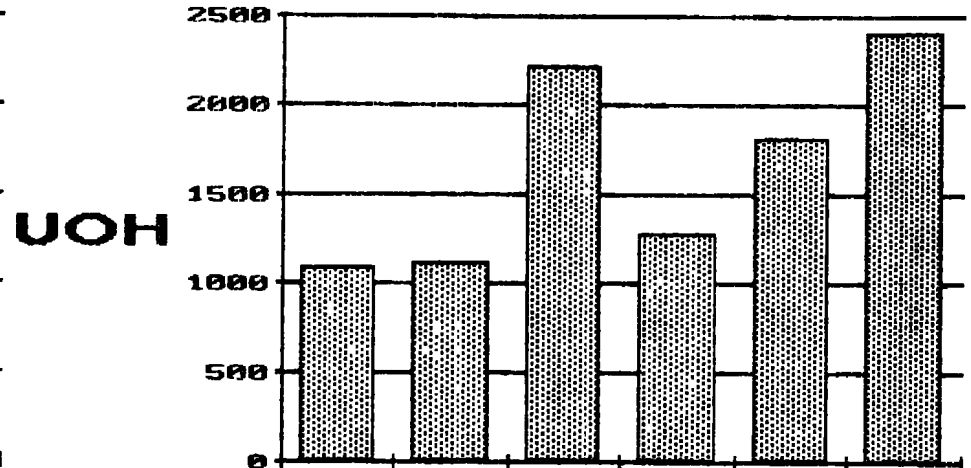
ALL TESTS



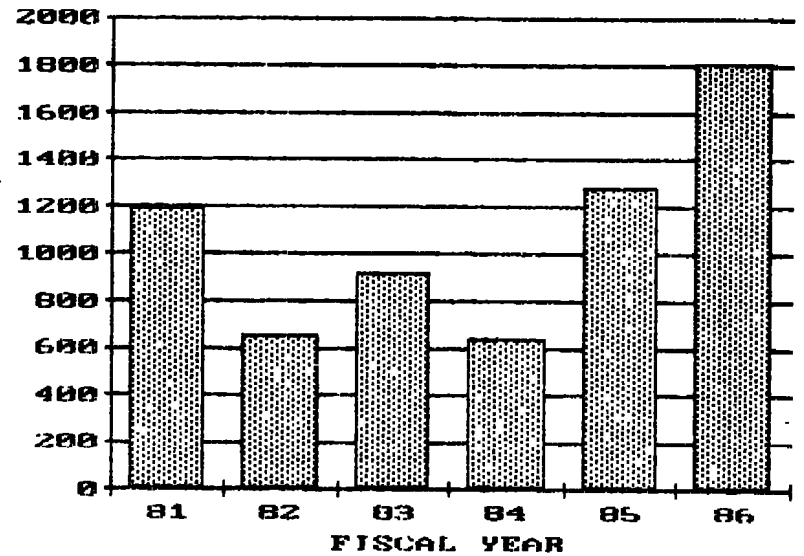
AOH



ALL TESTS



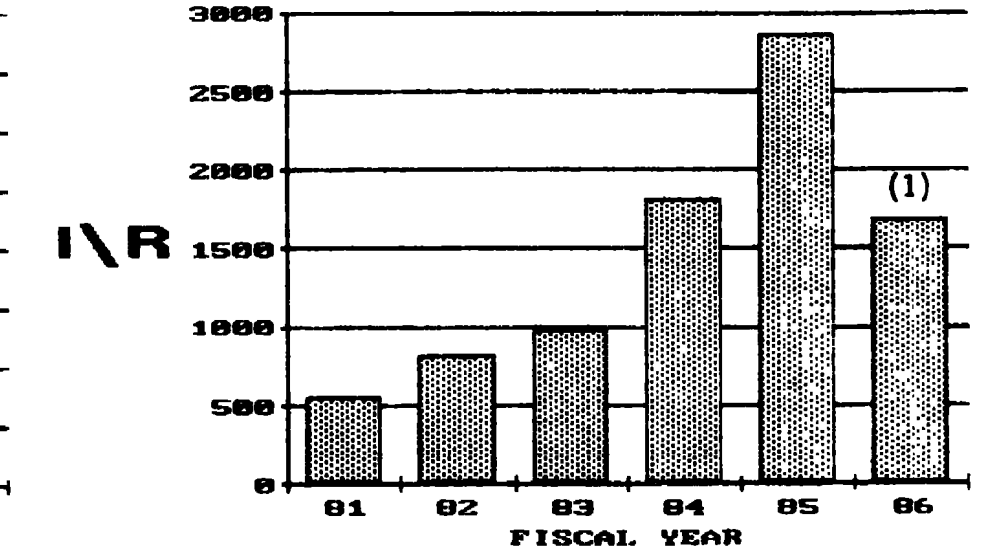
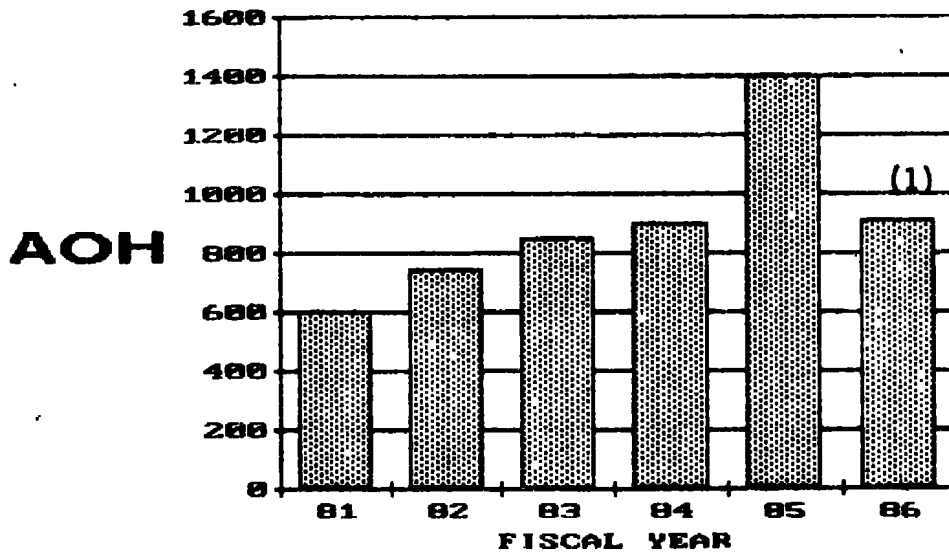
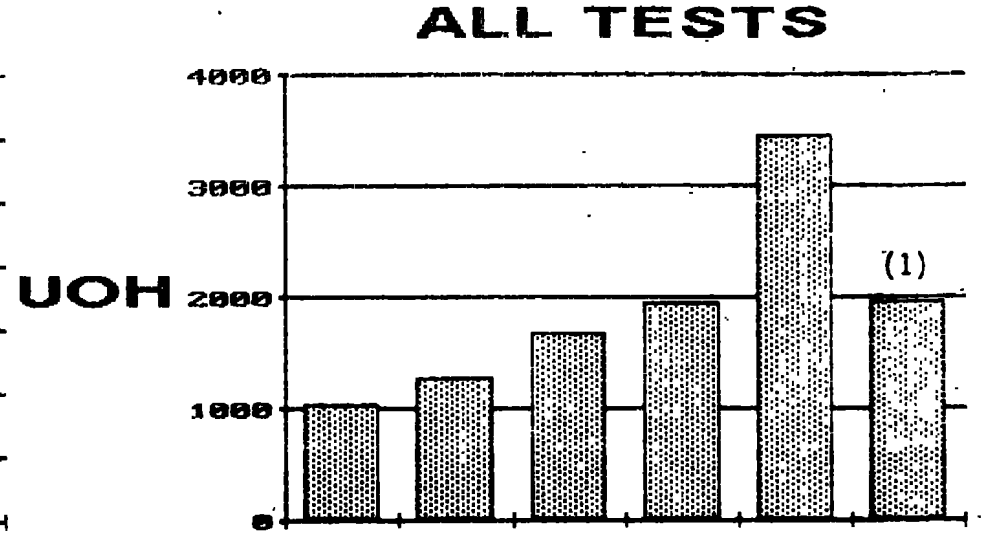
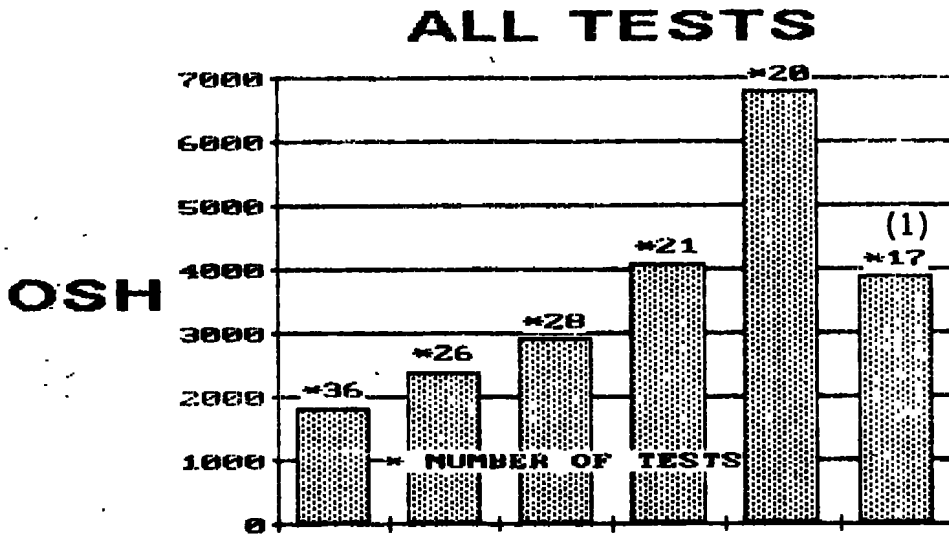
I/R



a. 4T

Figure 4. Level of Effort

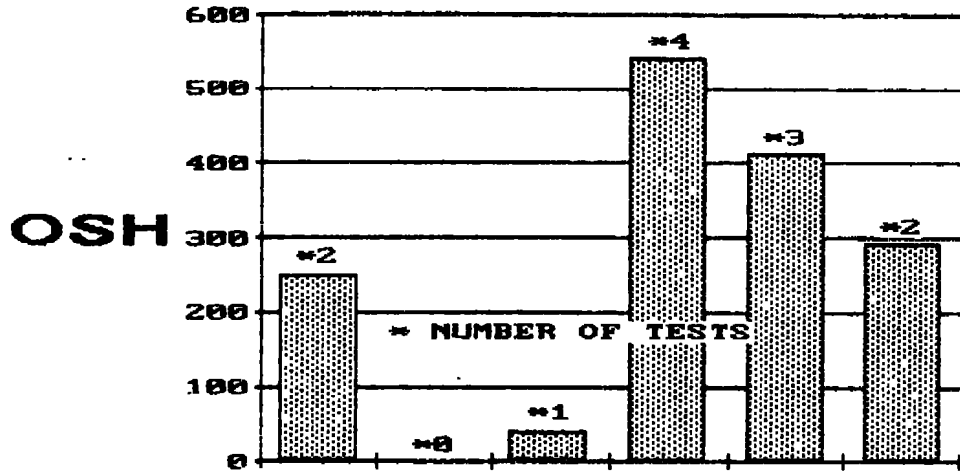
(1) 16T down for 14 weeks for flow quality improvements.



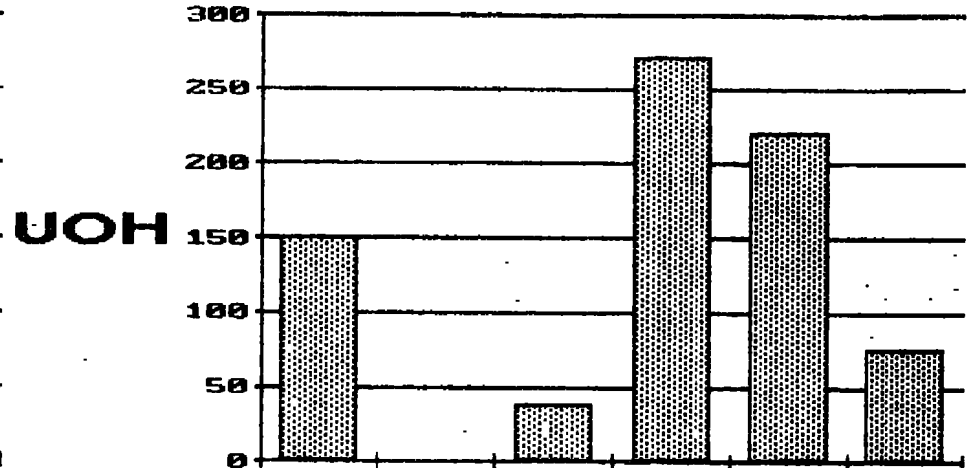
b. 16T
Figure 4. Continued

26

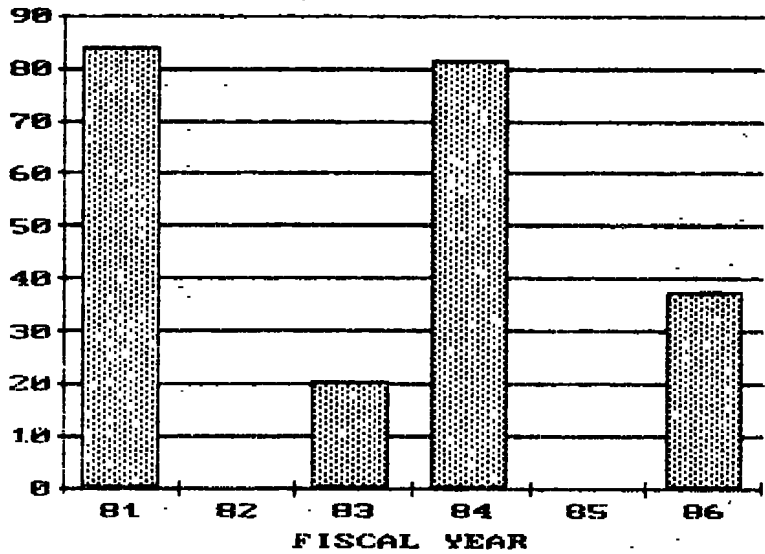
ALL TESTS



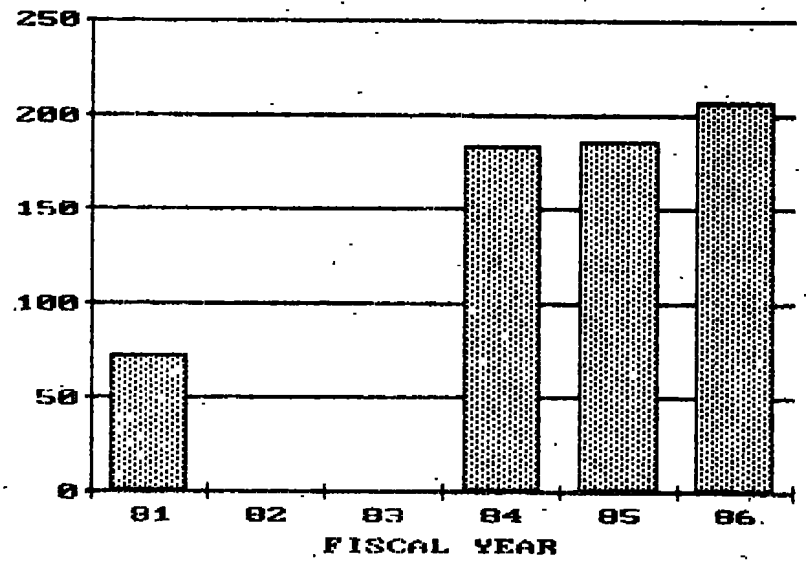
ALL TESTS



AOH

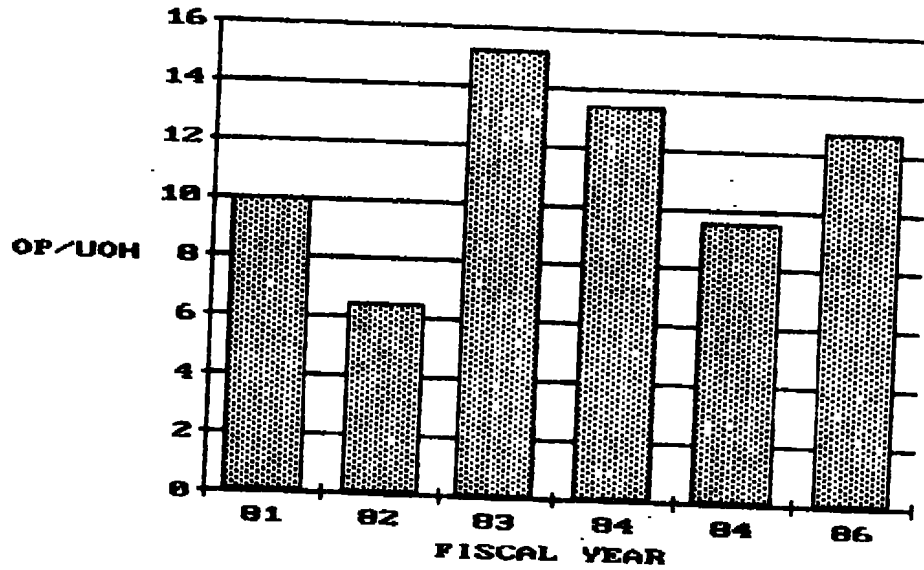
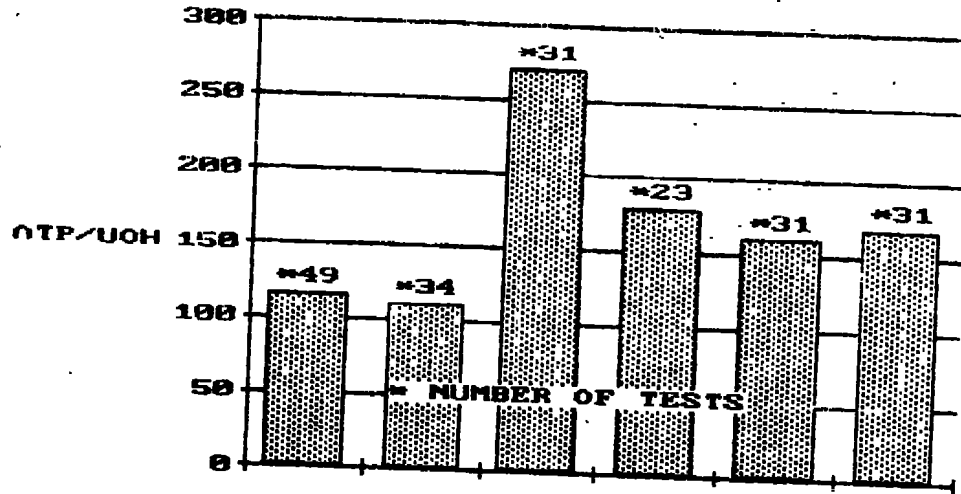


I/R

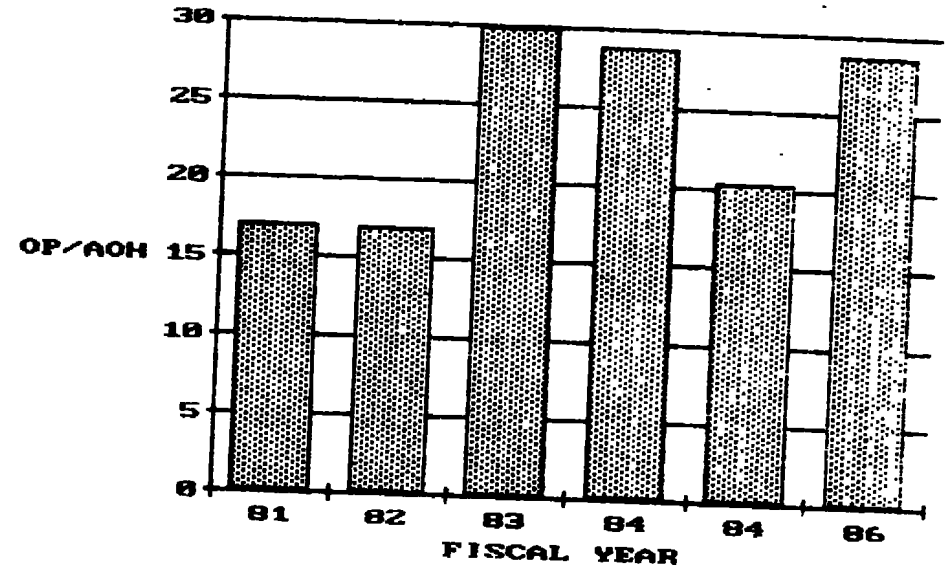
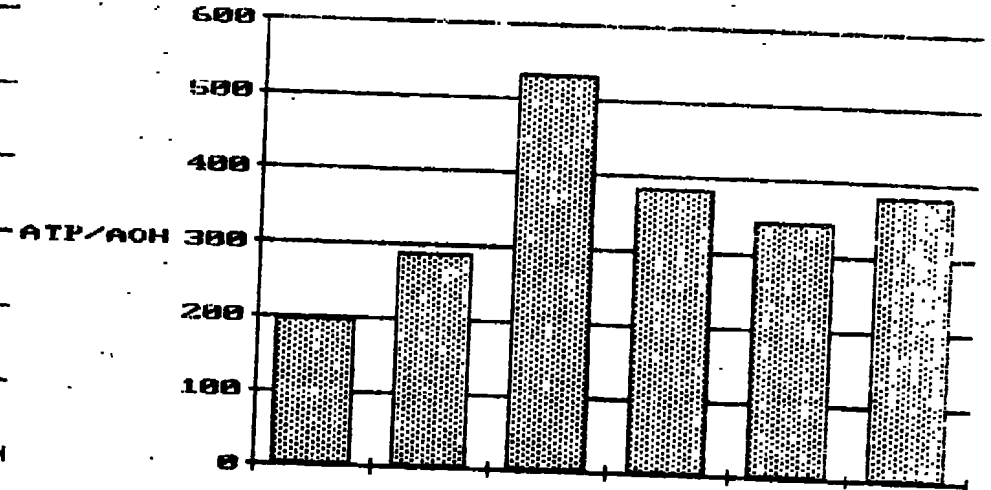


c. 16S
Figure 4. Concluded

ALL TESTS



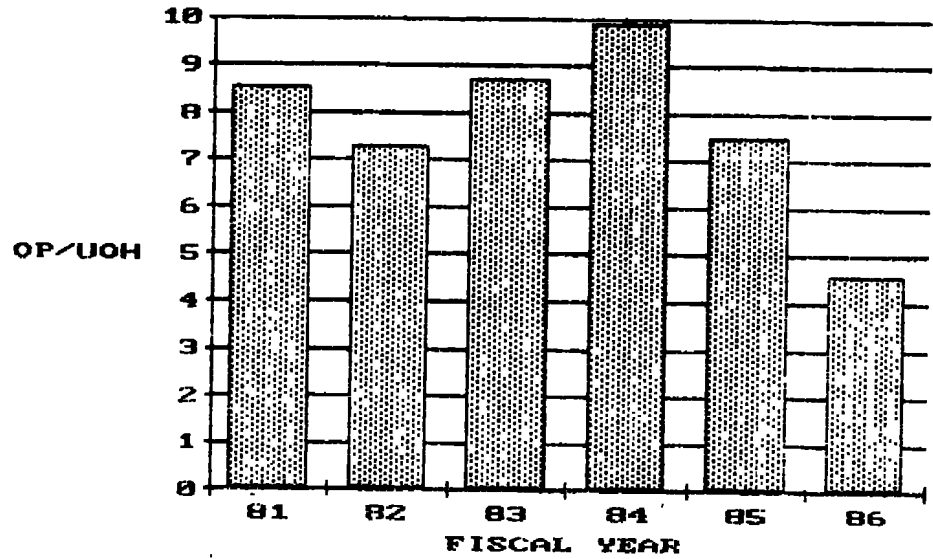
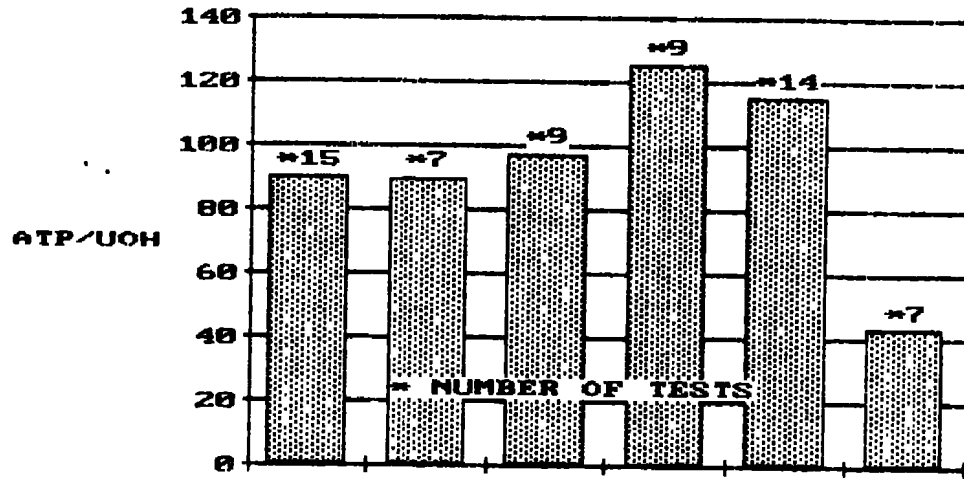
ALL TESTS



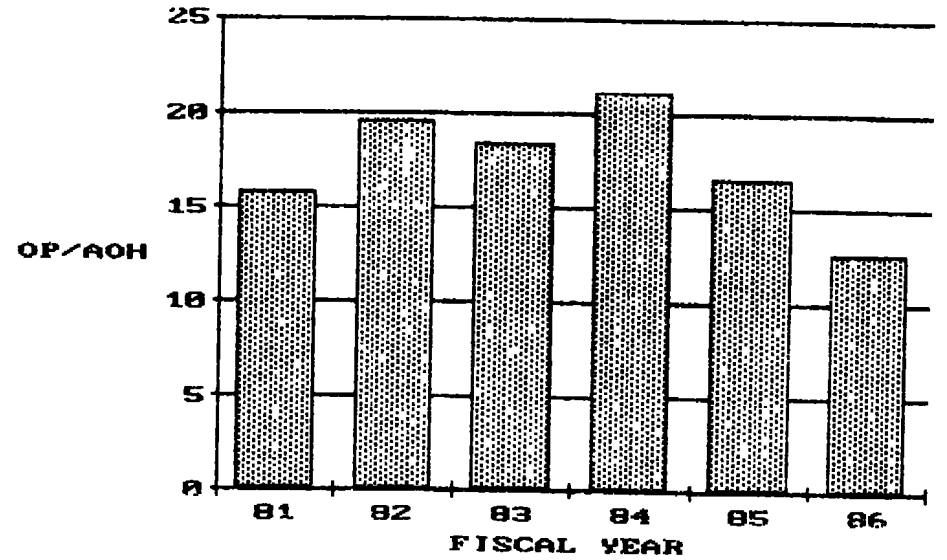
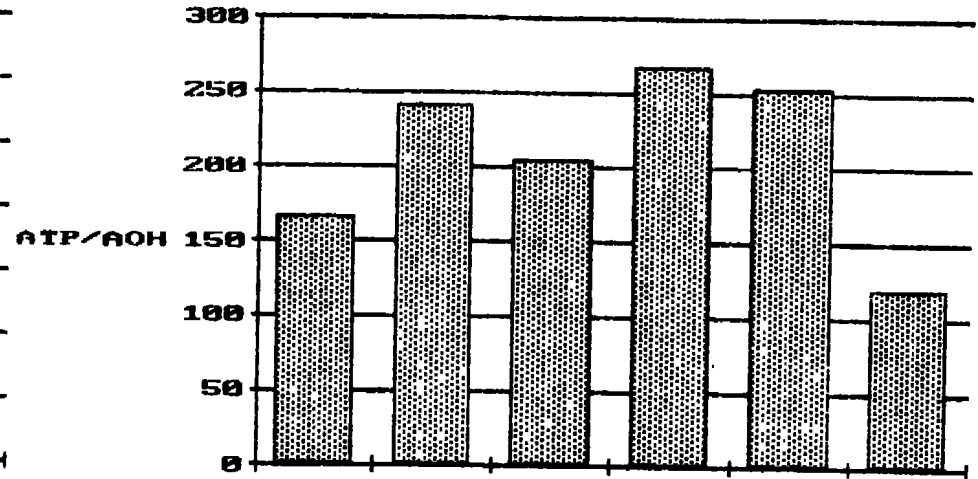
a. All Tests

Figure 5. Productivity Statistics for Tunnel 4T

BALC



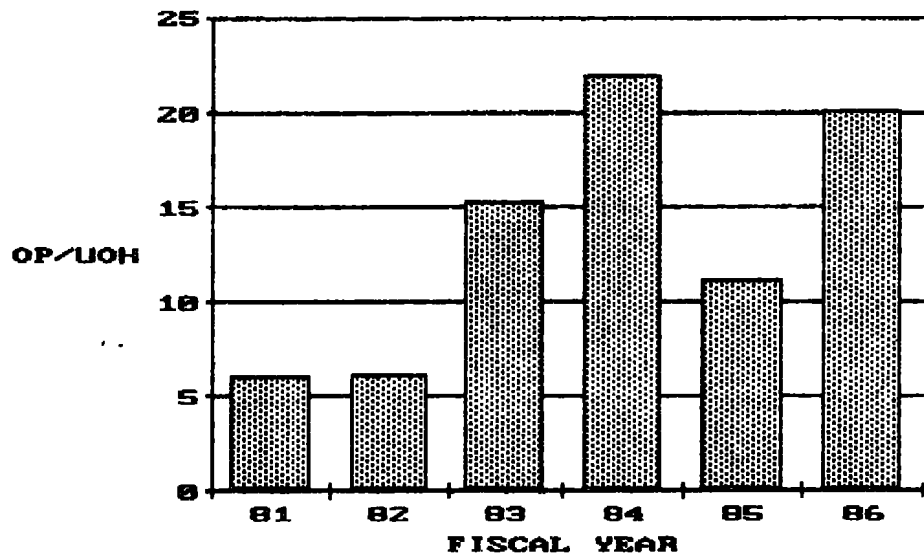
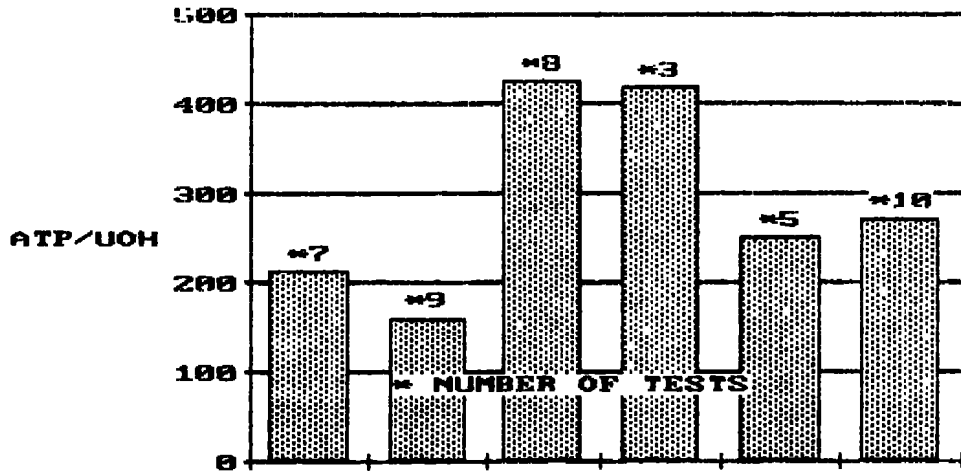
BALC



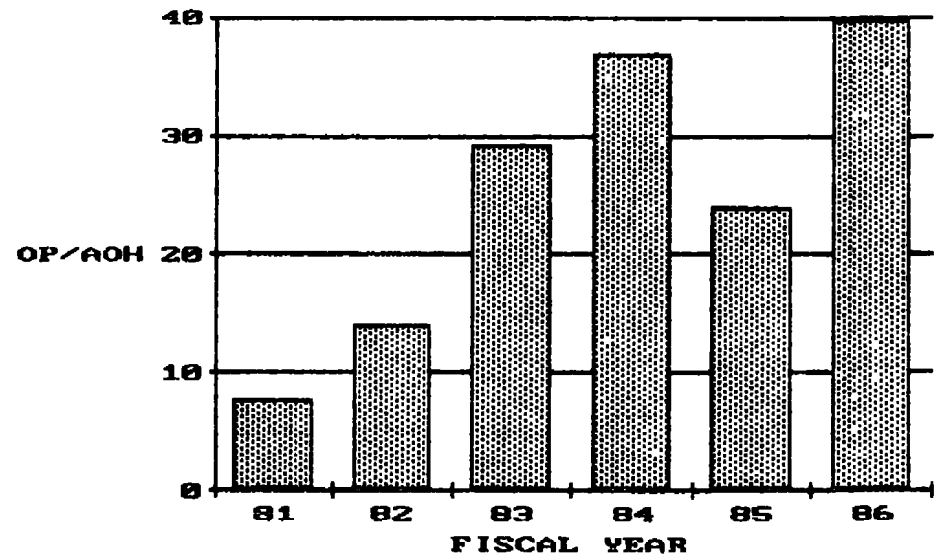
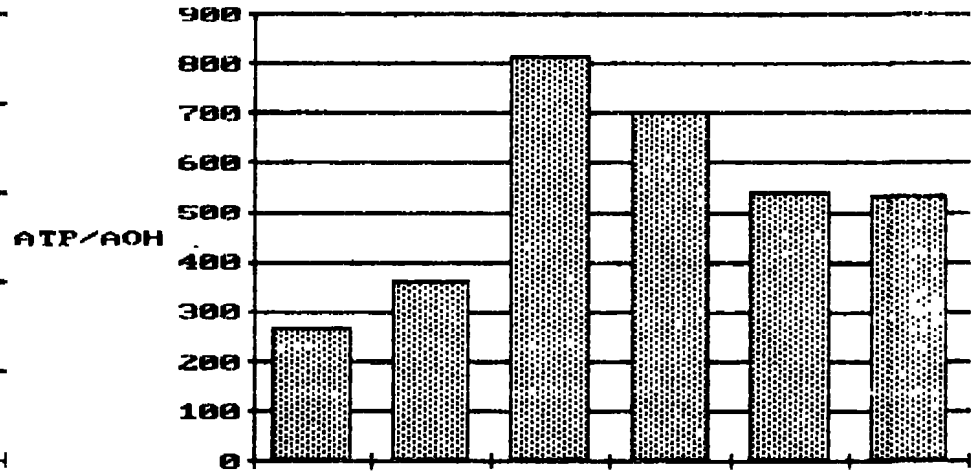
b. BALC

Figure 5. Continued

CTSC



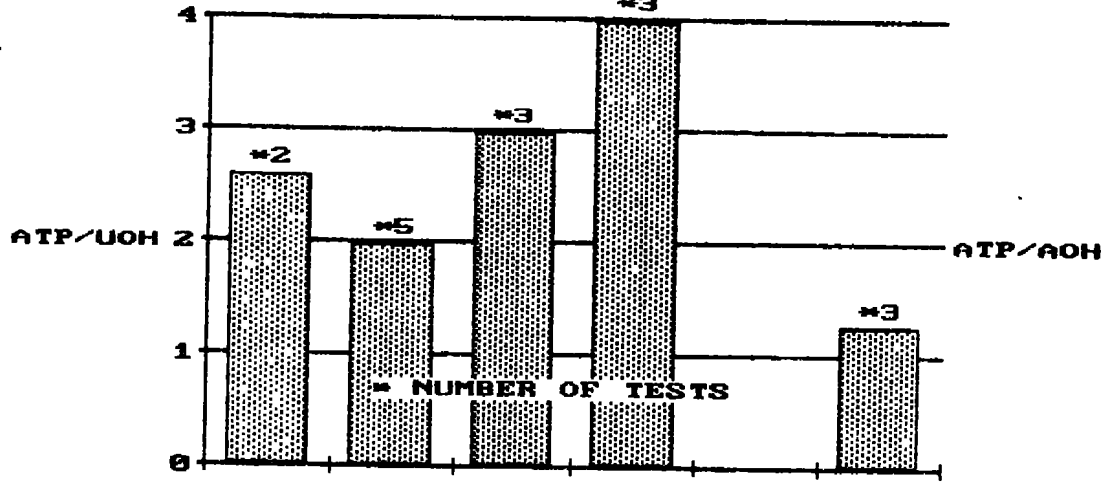
CTSC



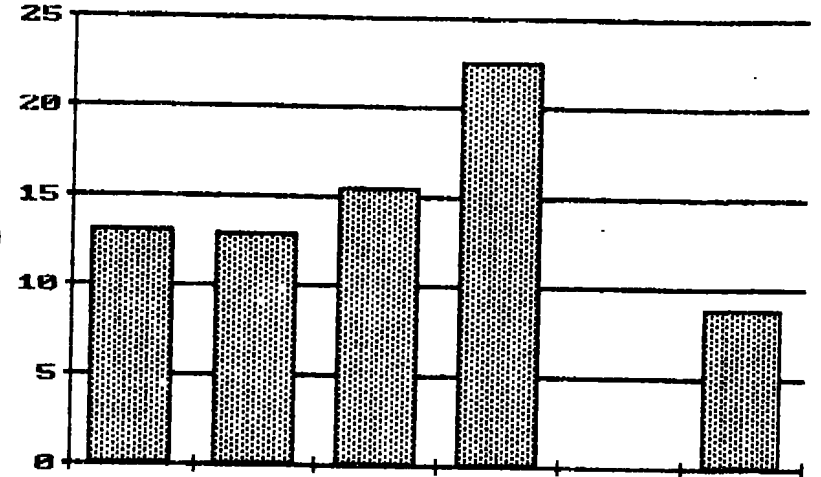
c. CTSC

Figure 5. Continued

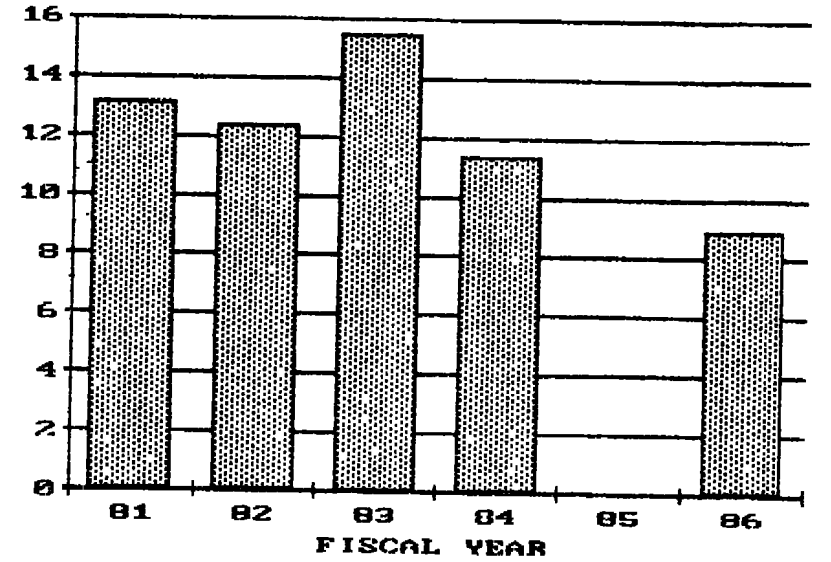
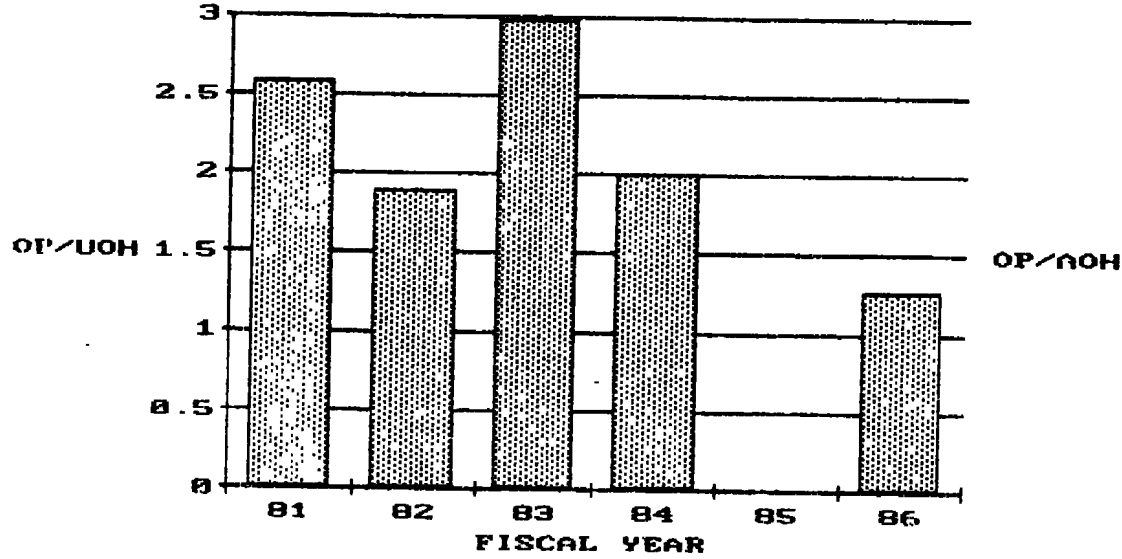
DYDC



DYDC

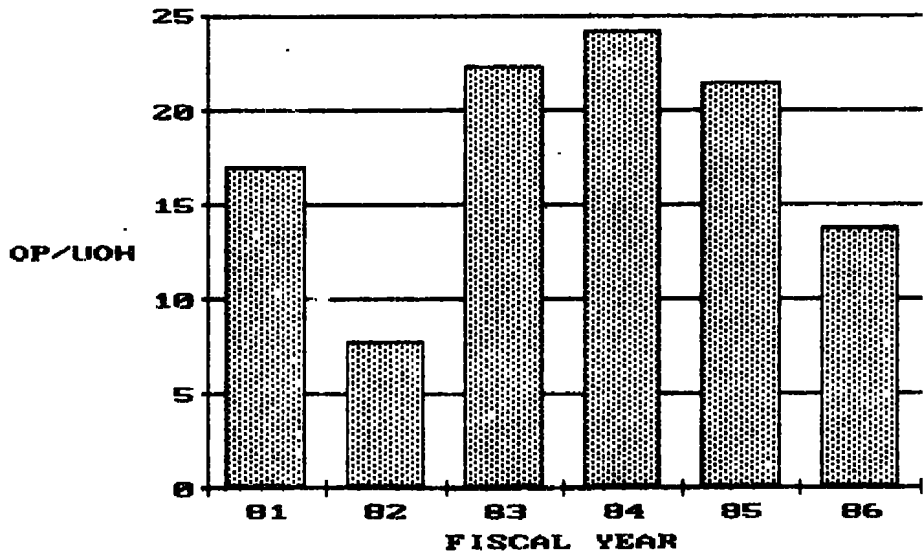
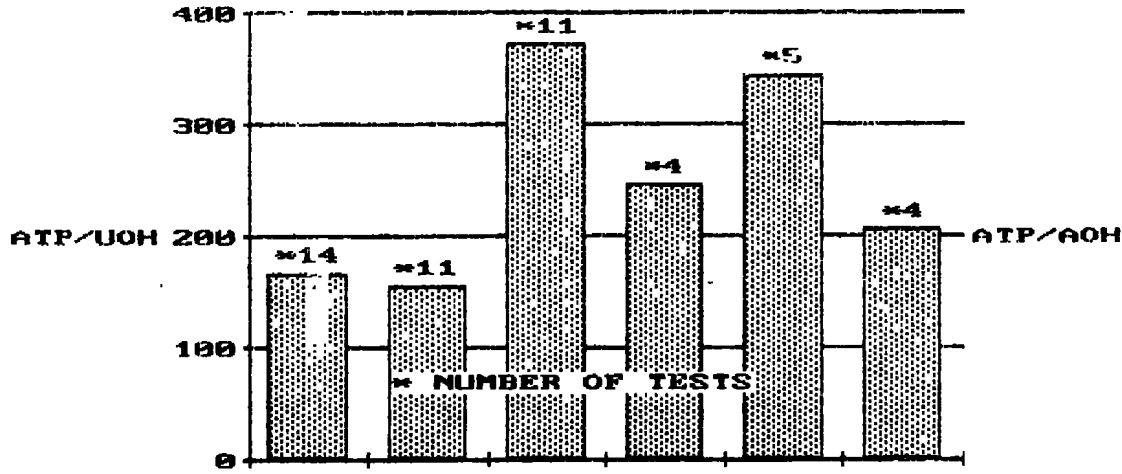


31

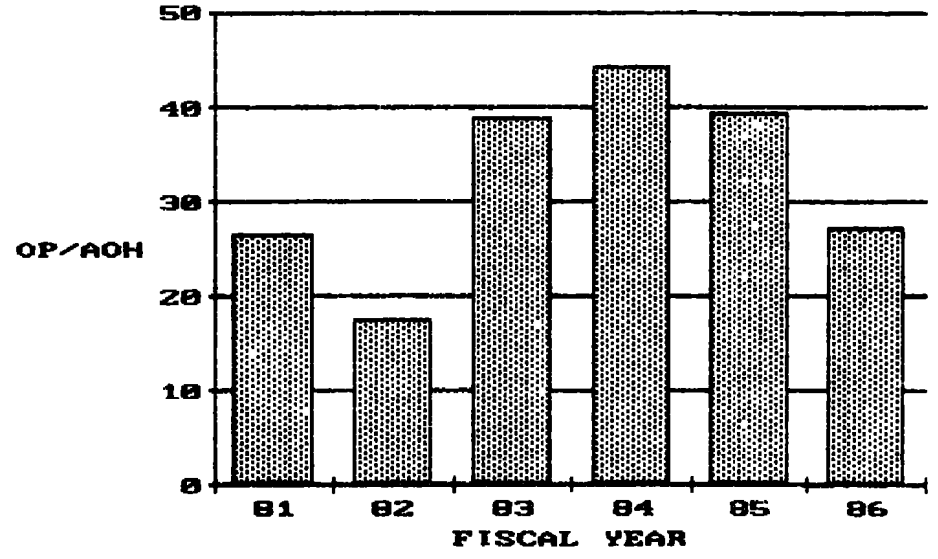
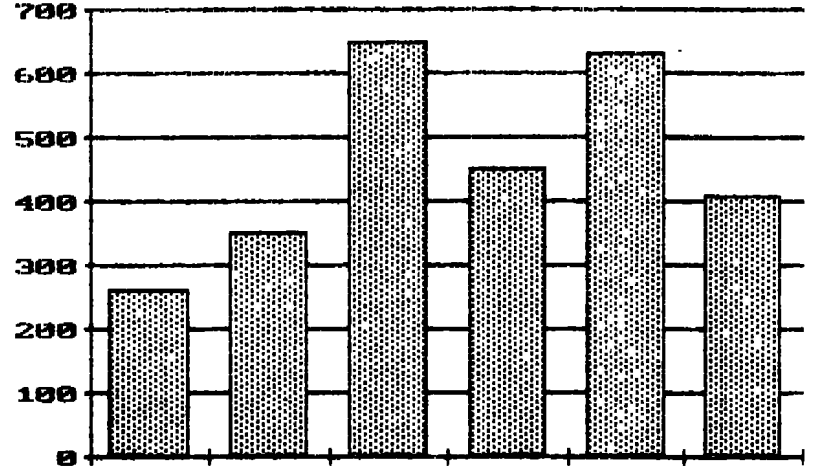


d. DYDC
Figure 5. Continued

GRDC

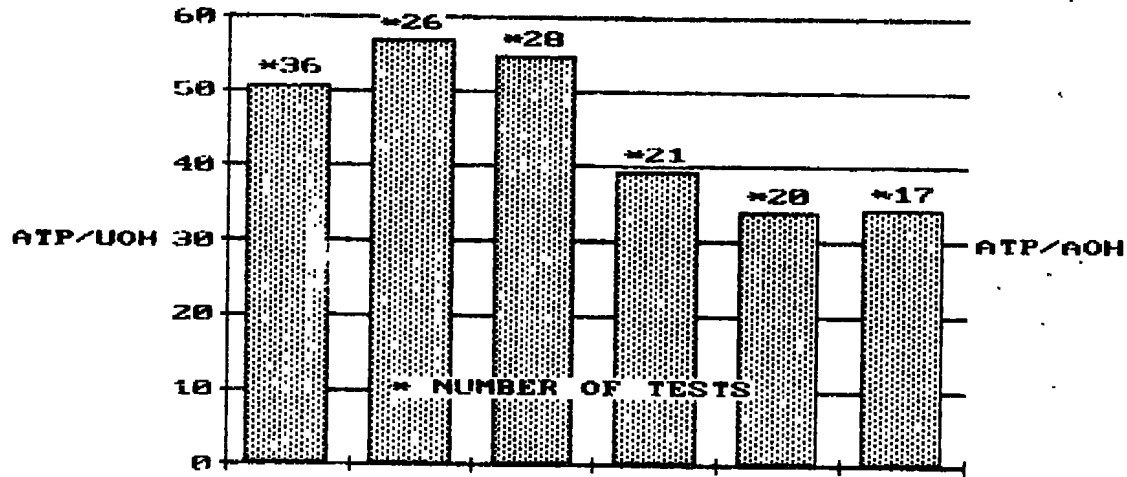


GRDC

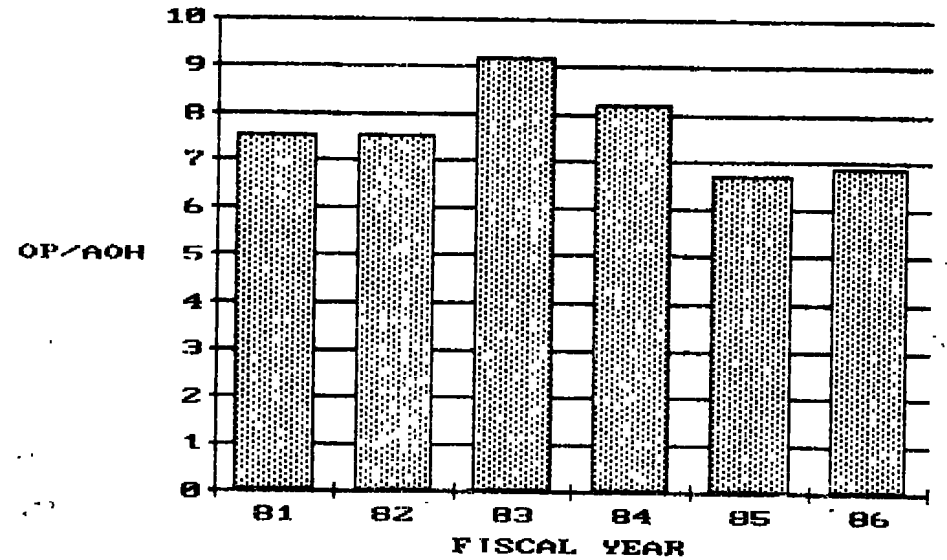
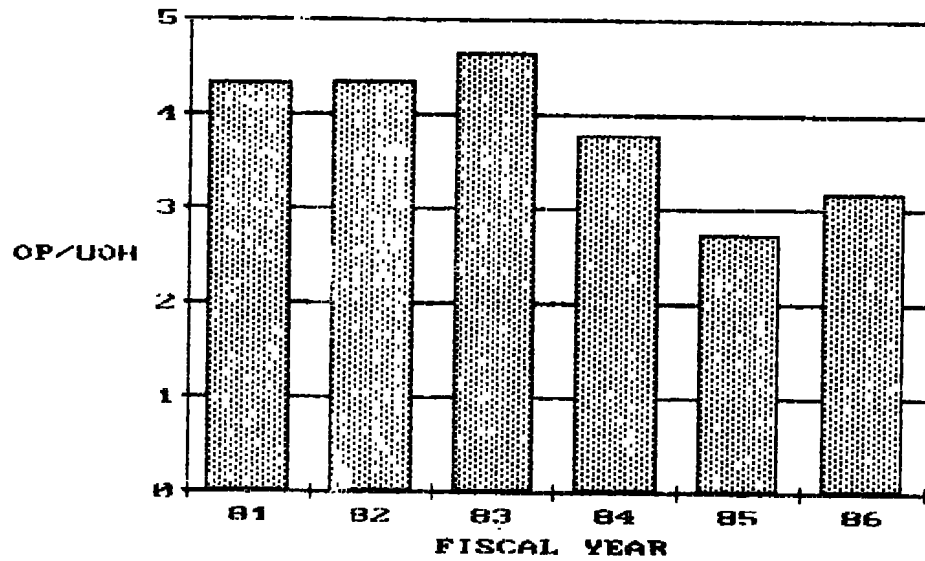
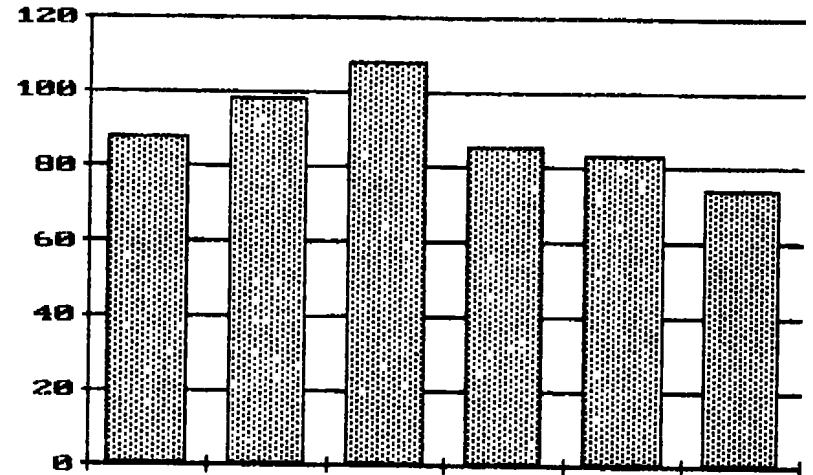


e. GRDC
Figure 5. Concluded

ALL TESTS



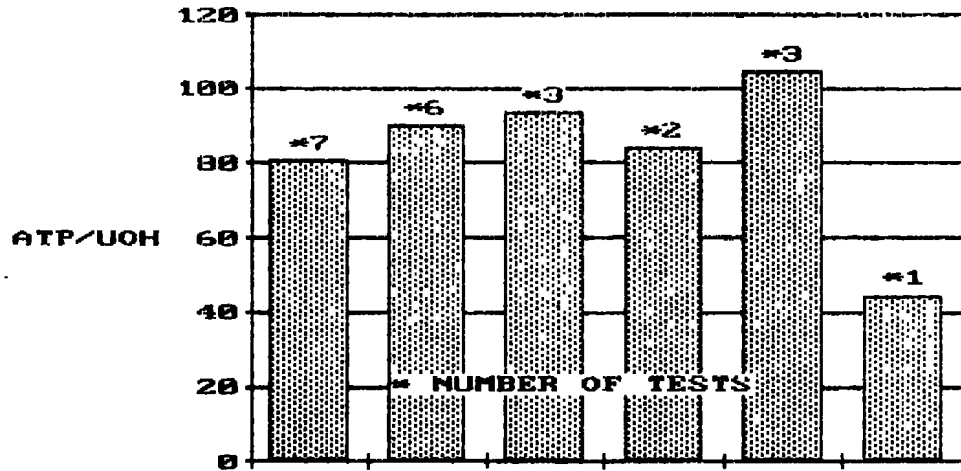
ALL TESTS



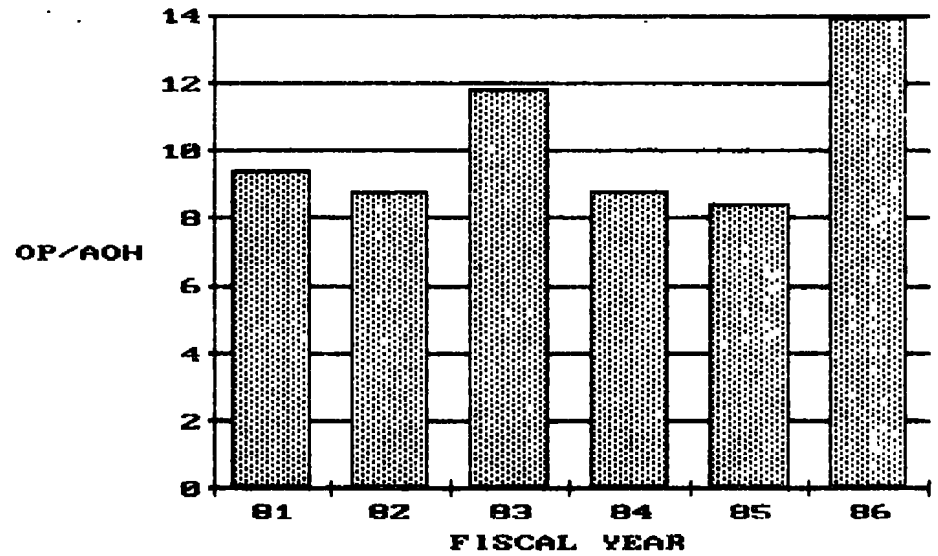
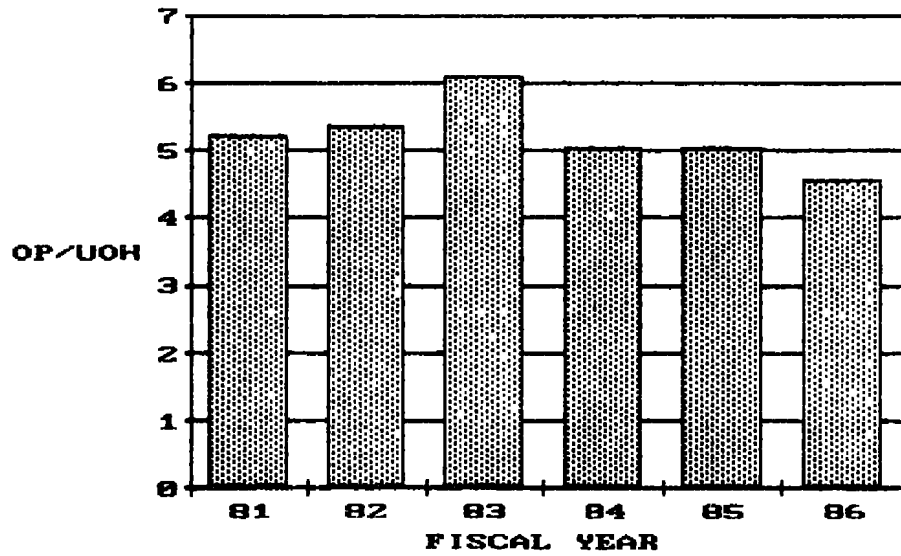
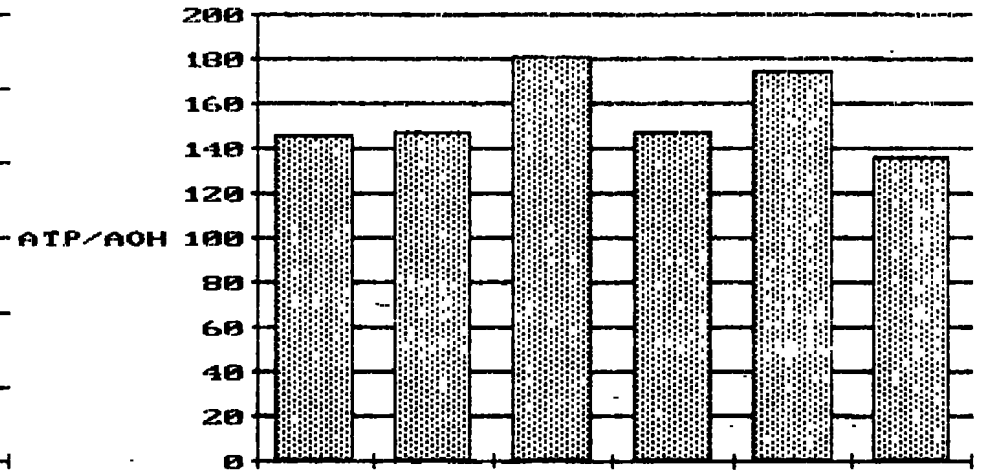
a. All Tests

Figure 6. Productivity Statistics for Tunnel 16T

BALT



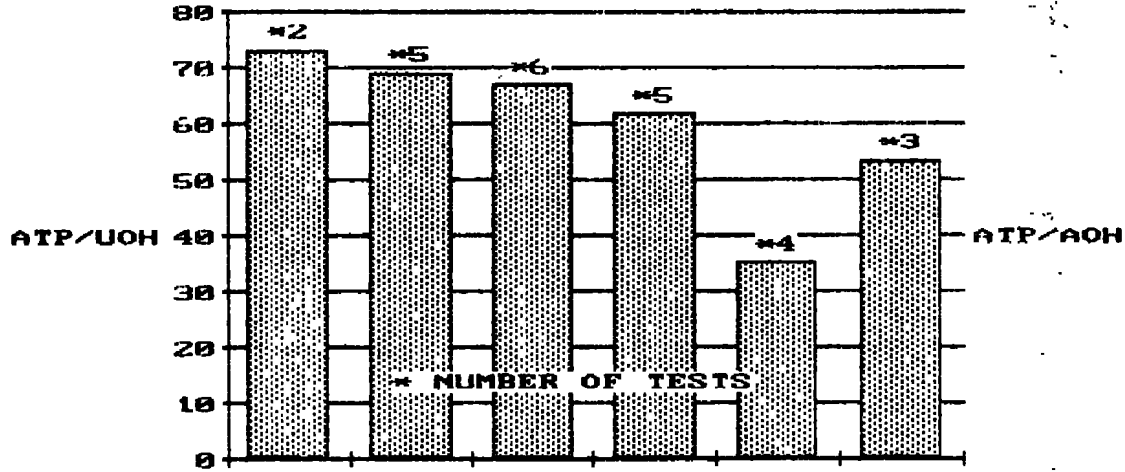
BALT



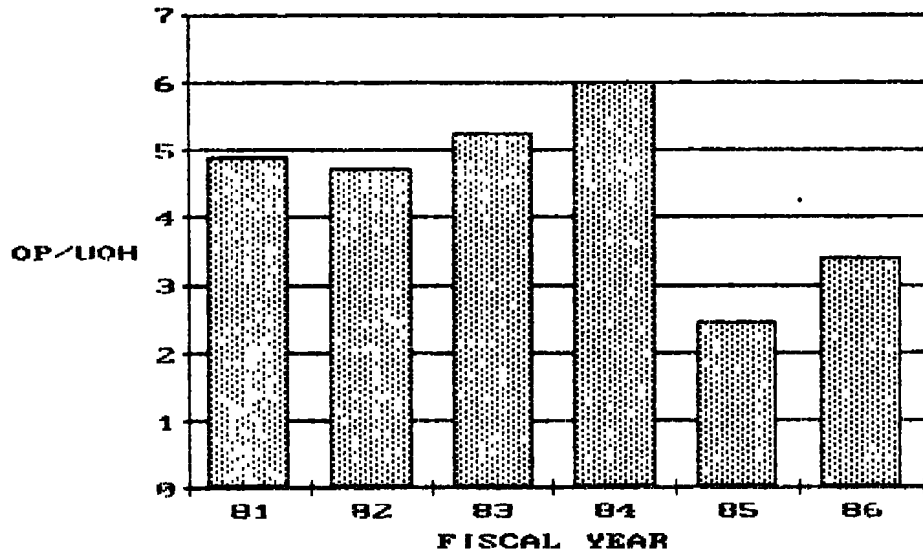
b. BALT

Figure 6. Continued

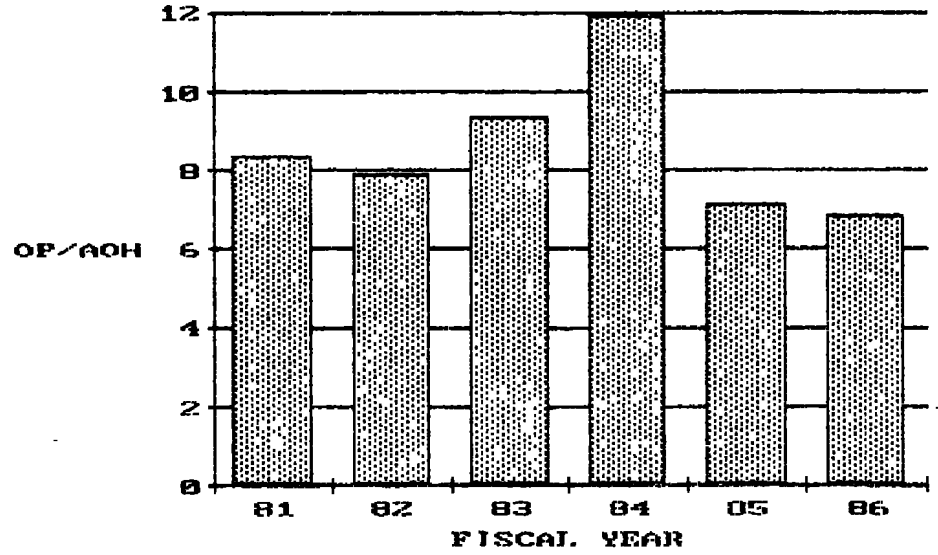
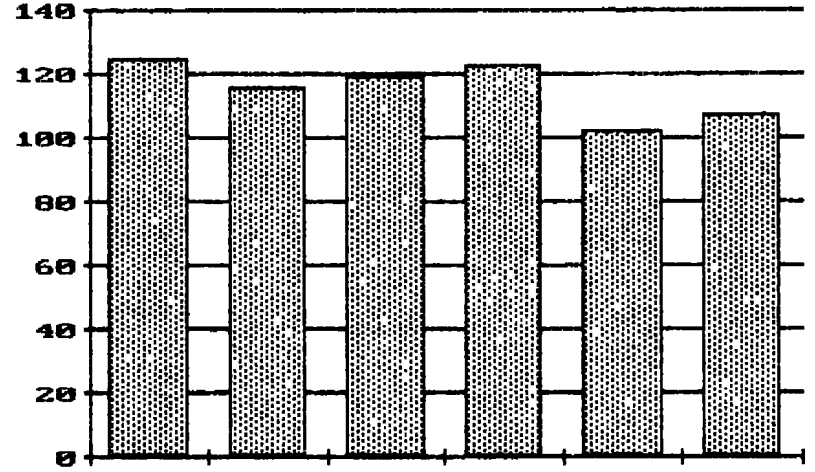
BAPT



* NUMBER OF TESTS



BAPT

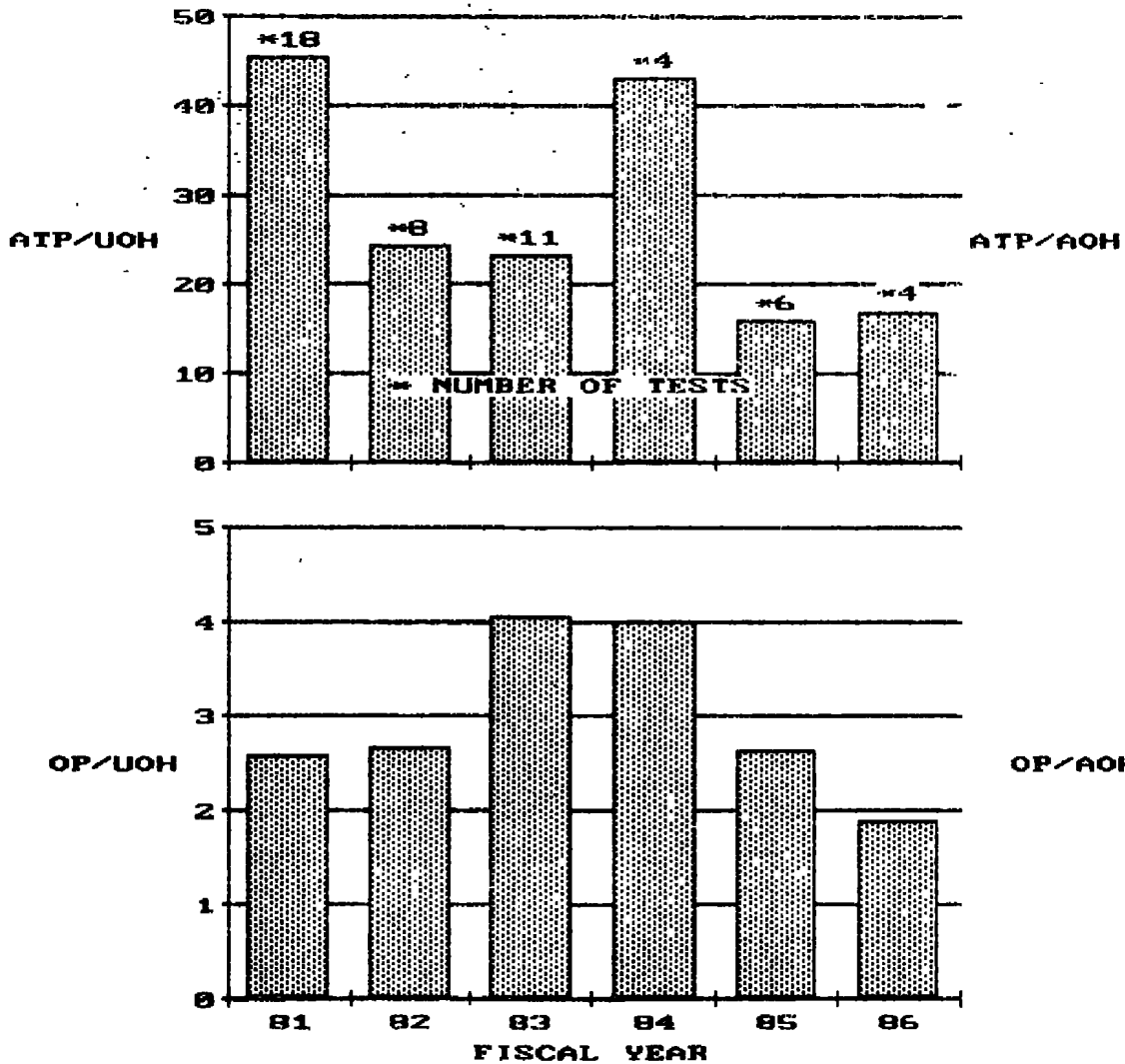


35

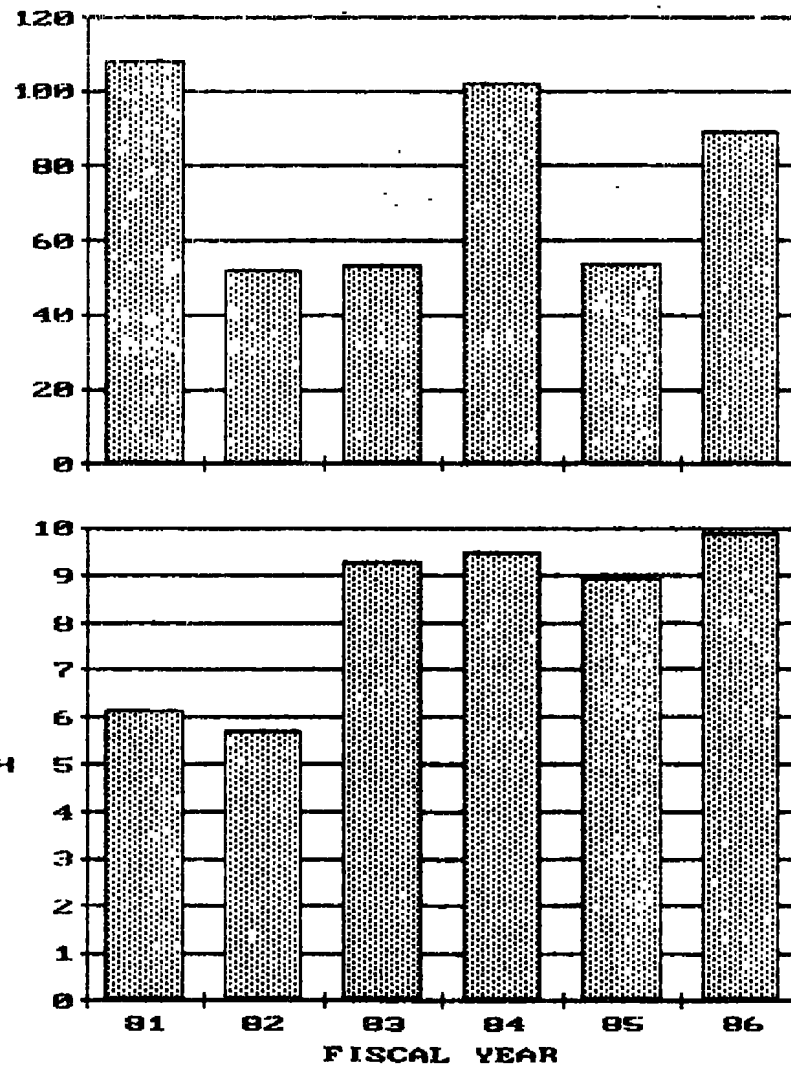
c. BAPT

Figure 6. Continued

MIST

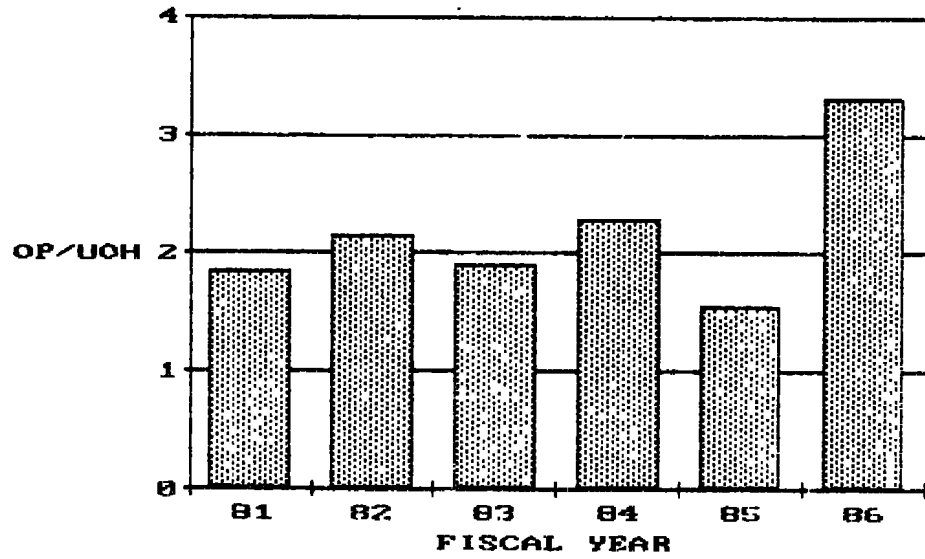
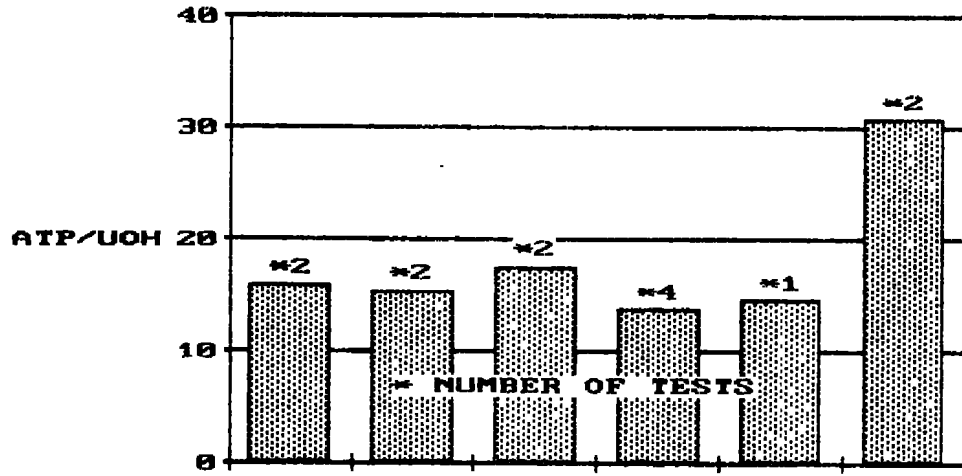


MIST

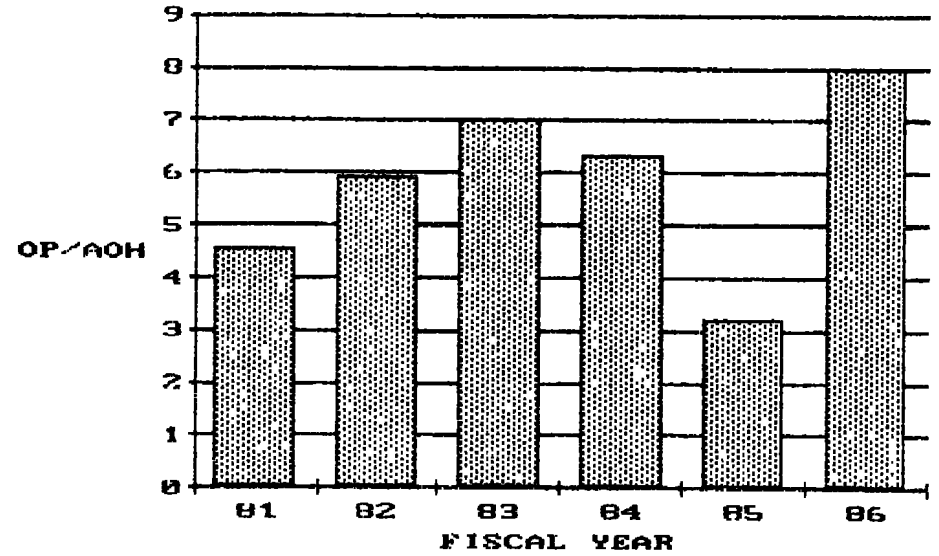
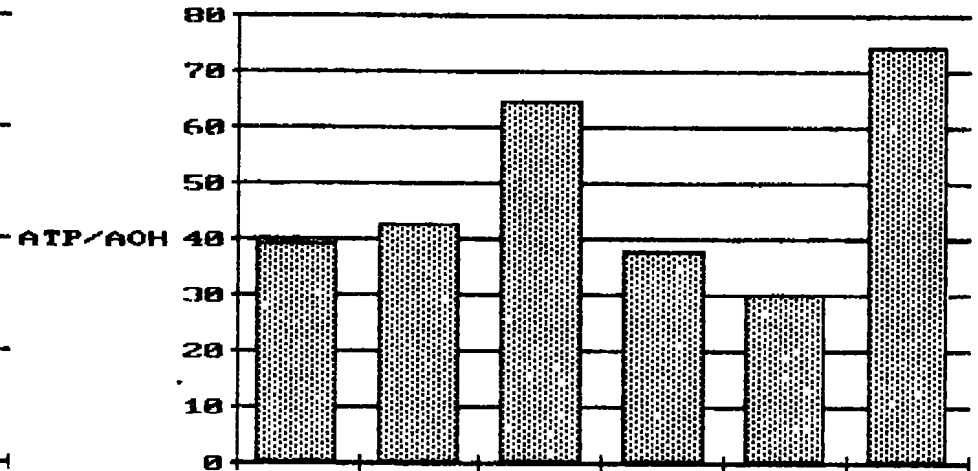


d. MIST
Figure 6. Continued

NABT

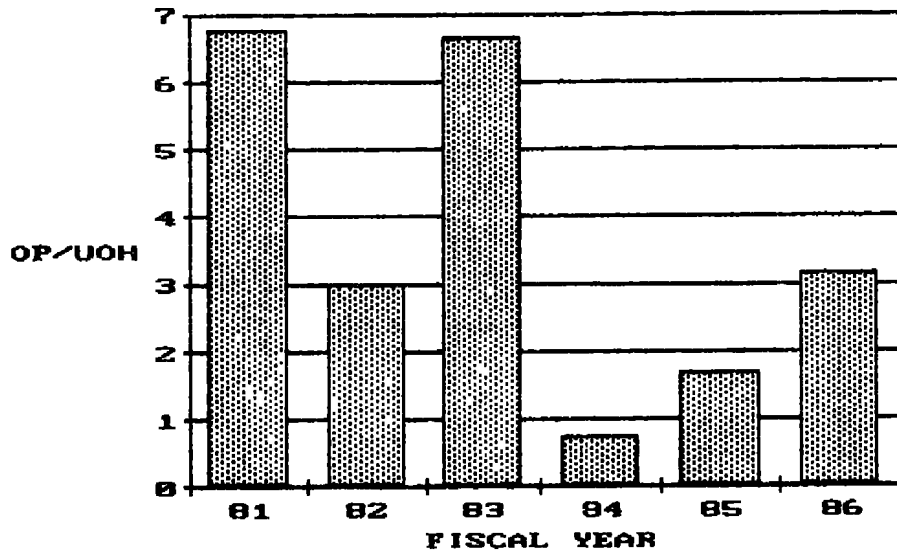
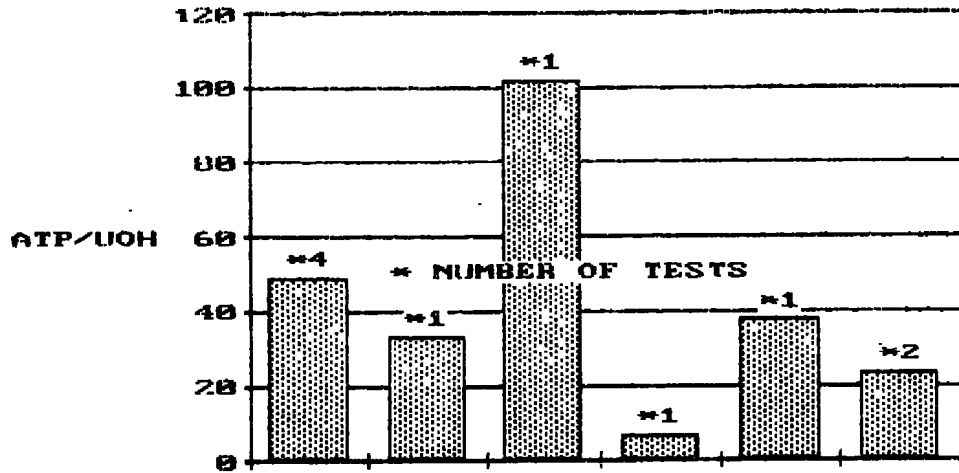


NABT

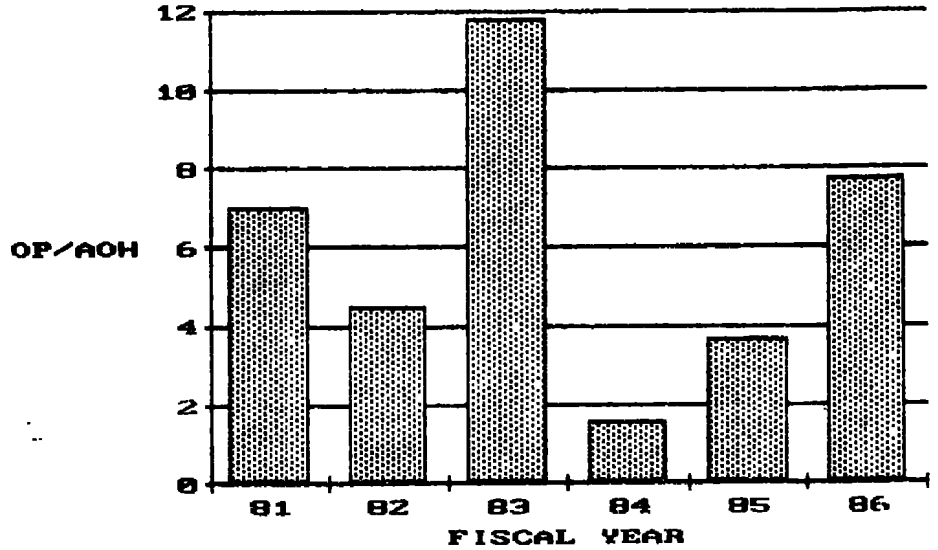
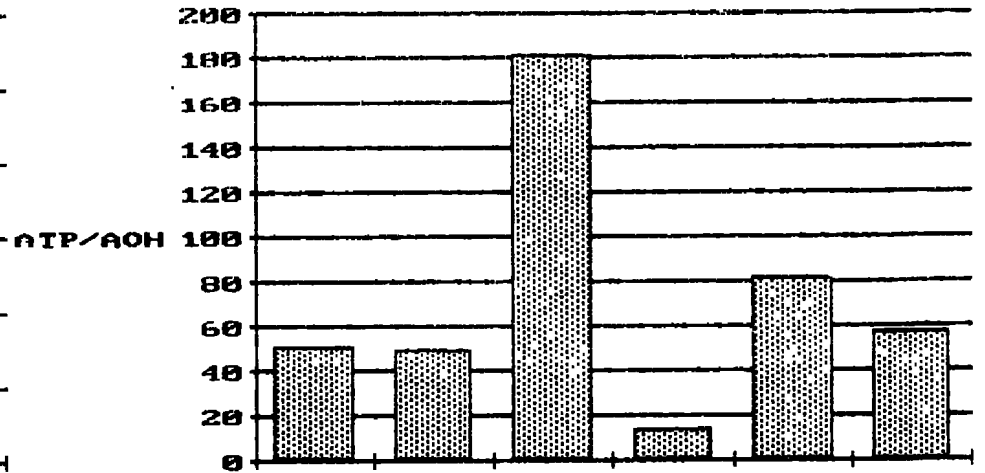


e. NABT
Figure 6. Continued

PRST



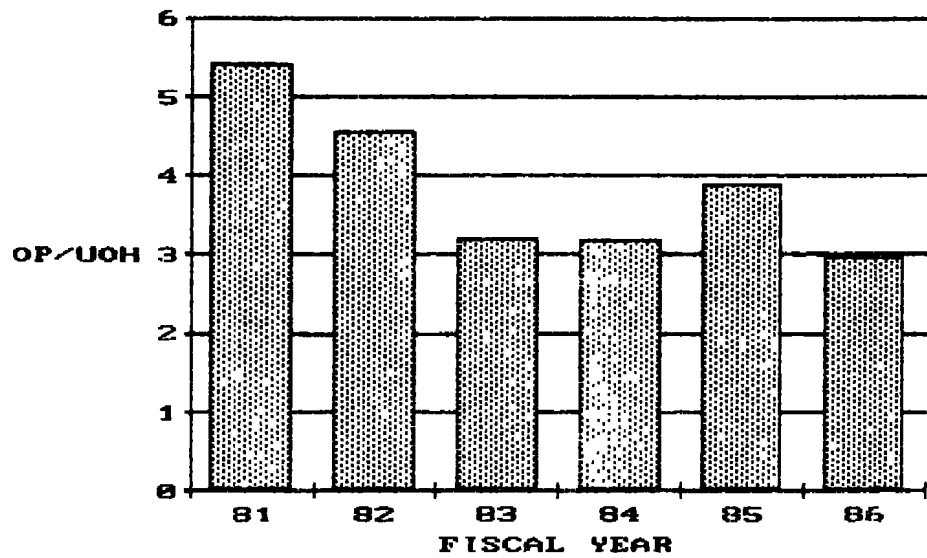
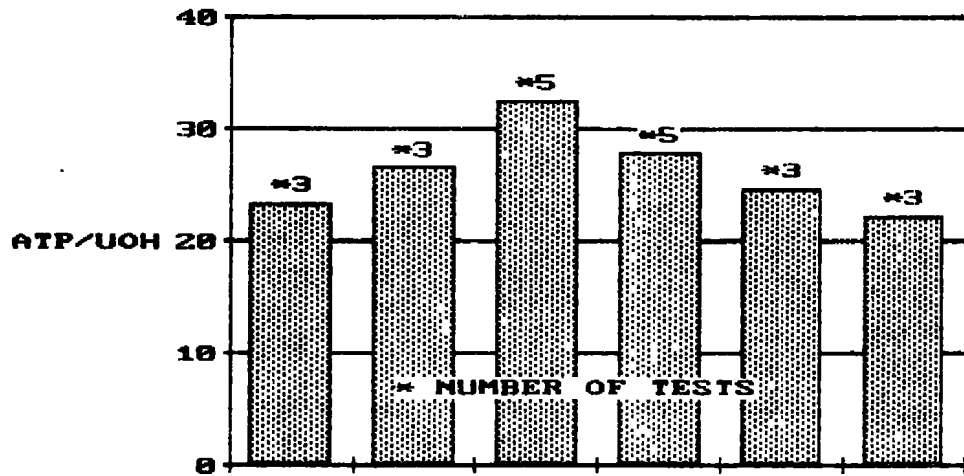
PRST



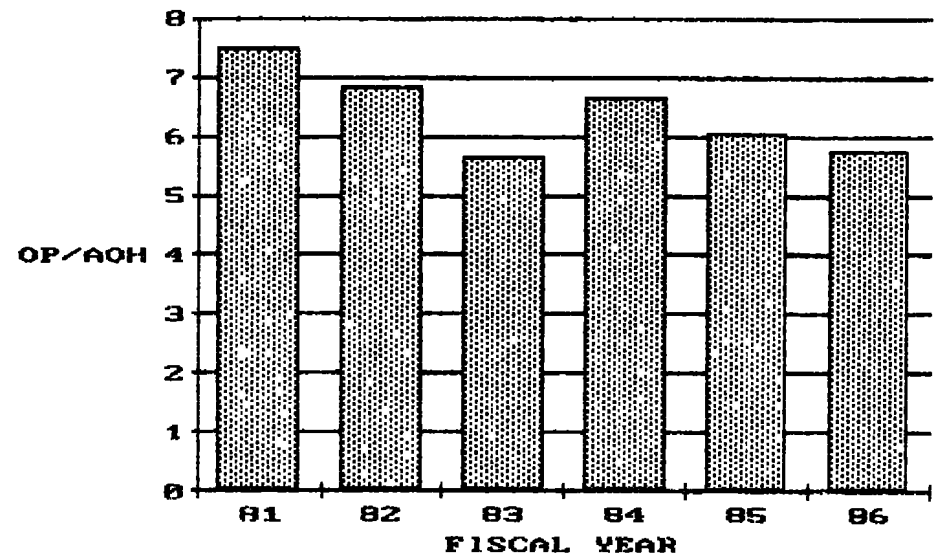
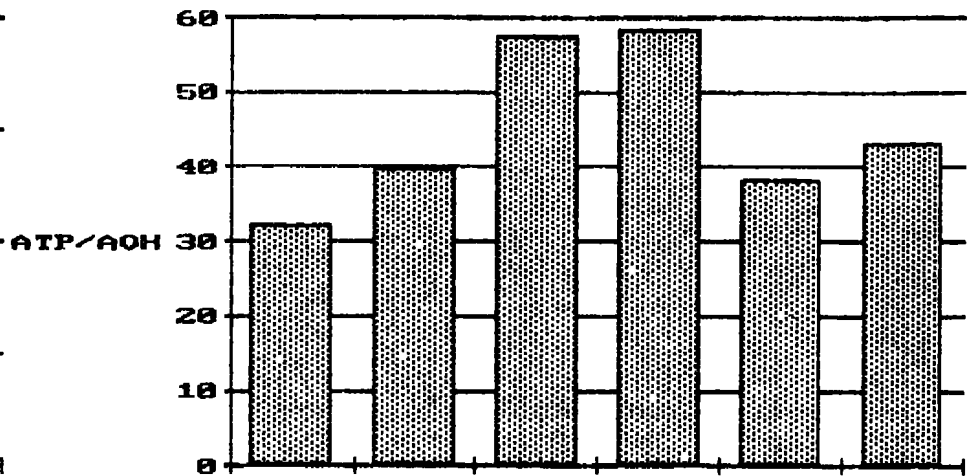
f. PRST

Figure 6. Continued

SIPT



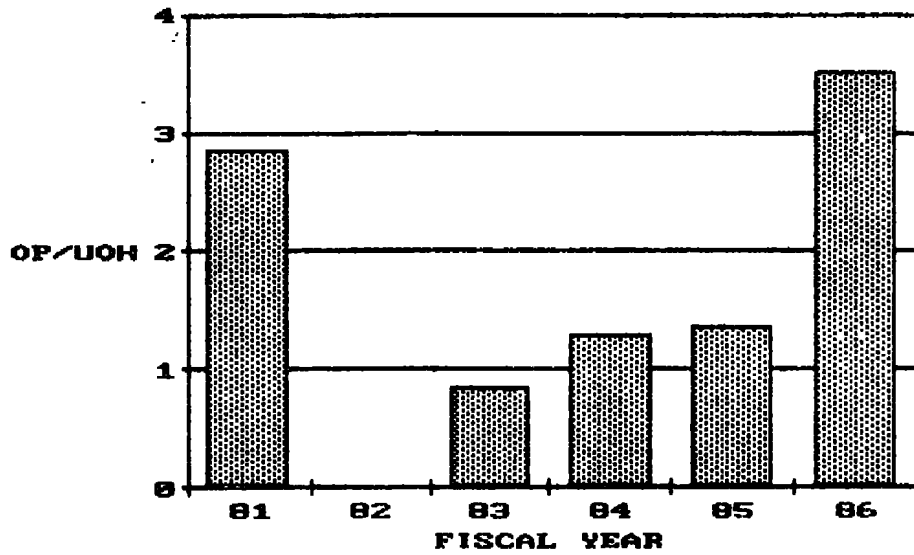
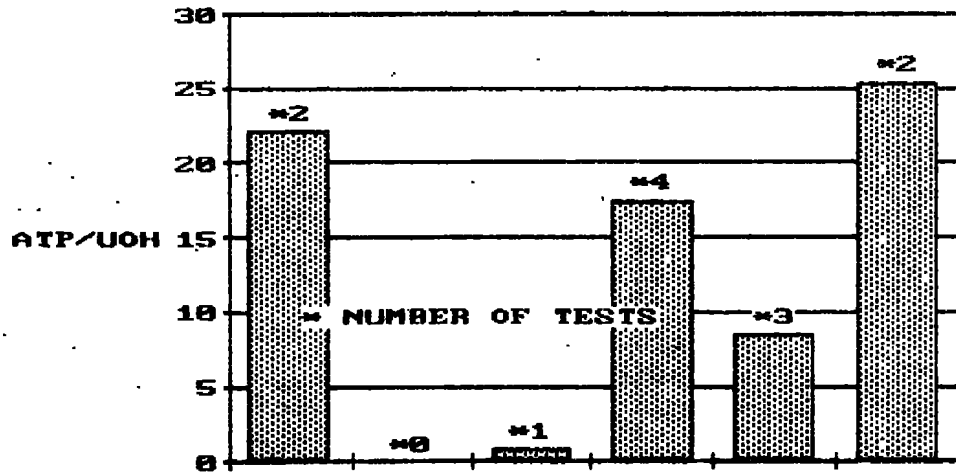
SIPT



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g. SIPT
Figure 6. Concluded

ALL TESTS



ALL TESTS

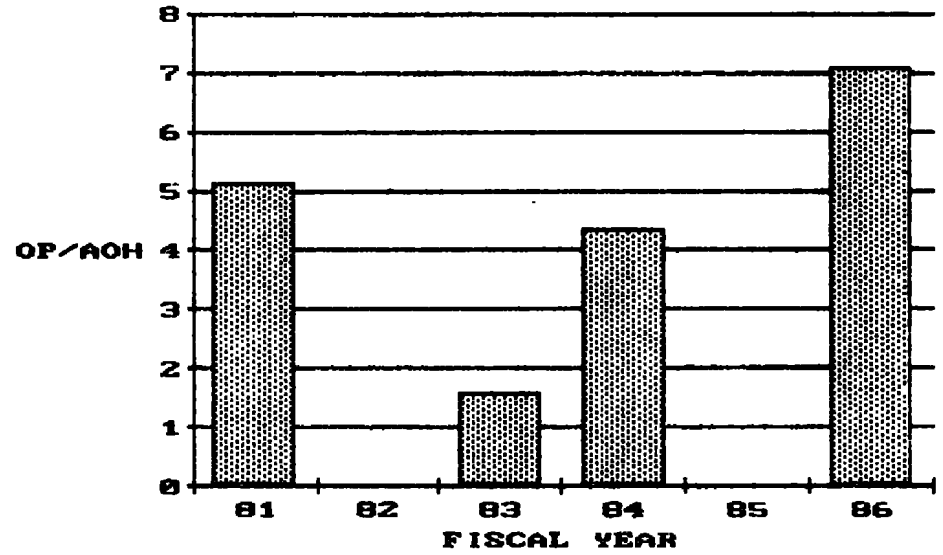
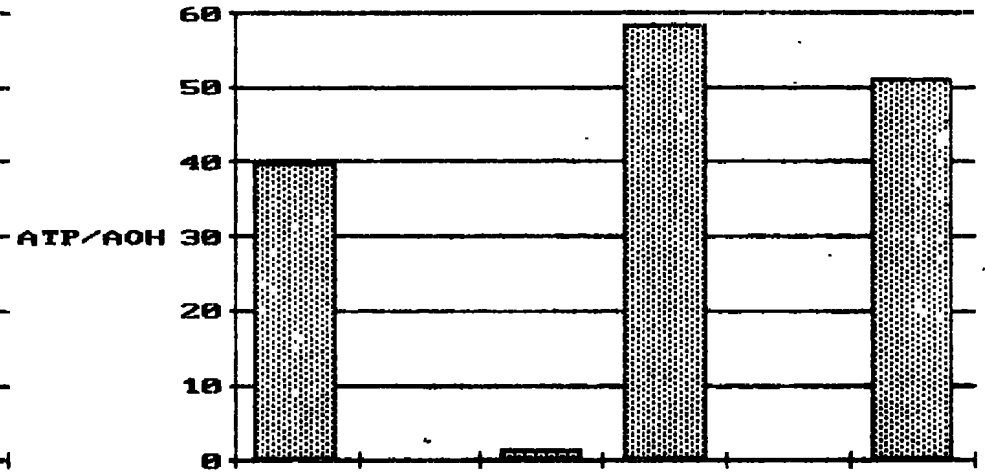
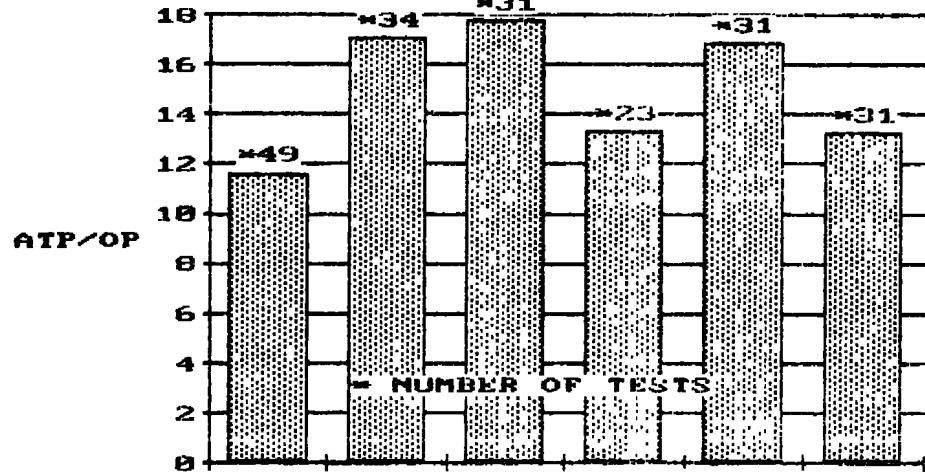
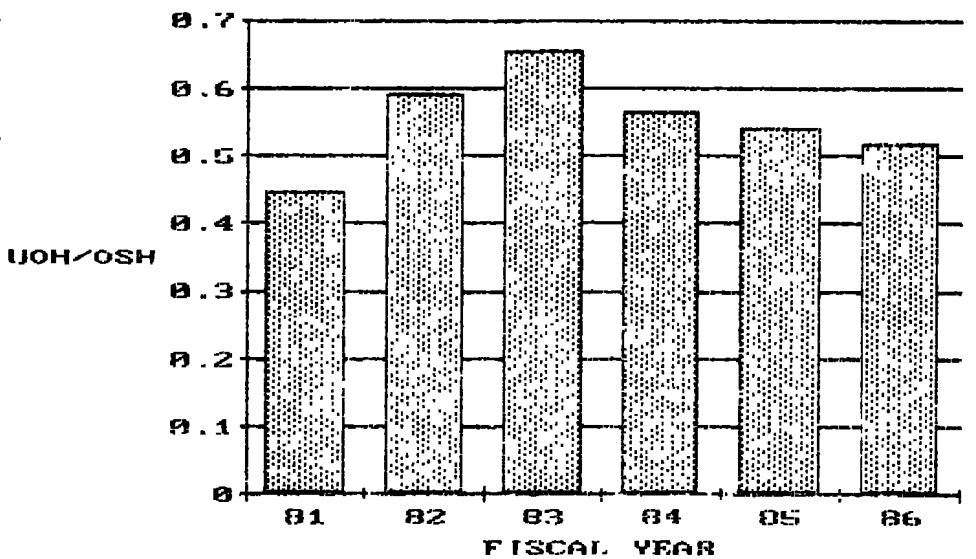
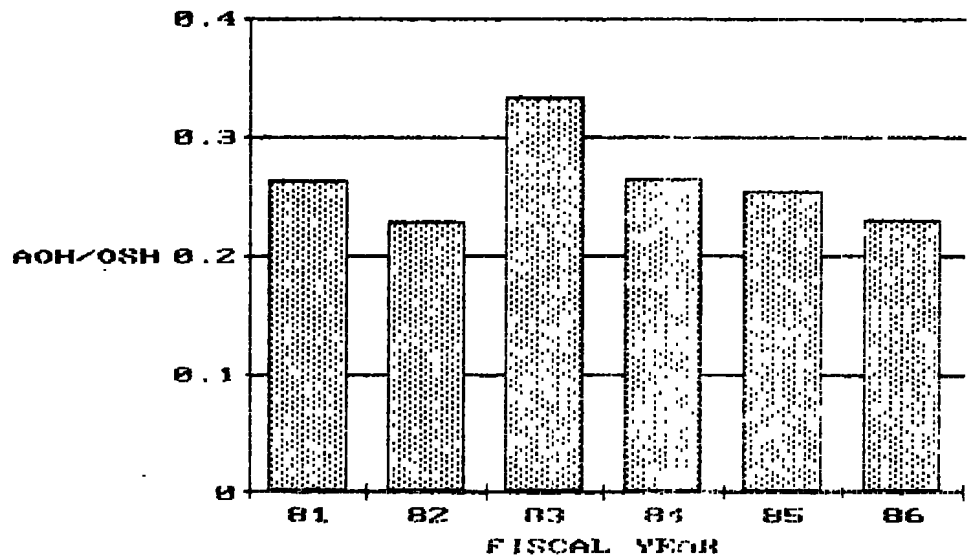
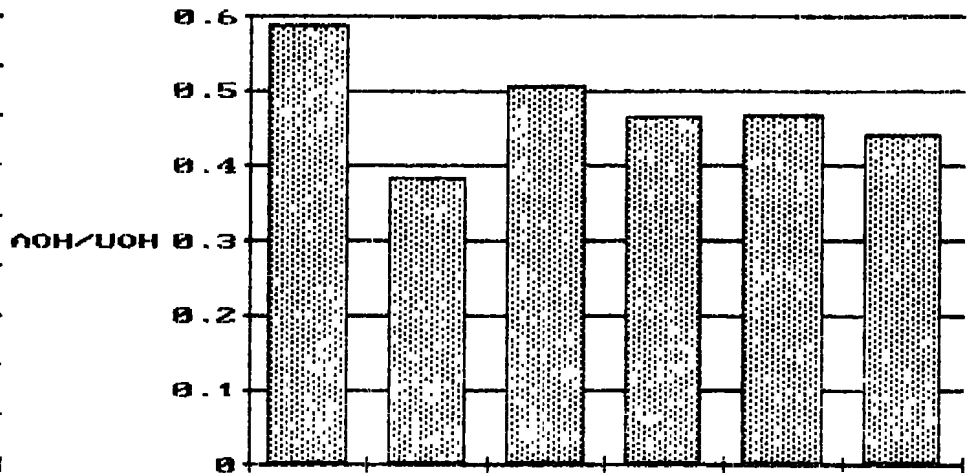


Figure 7. Productivity Statistics for Tunnel 16S (All Tests)

ALL TESTS

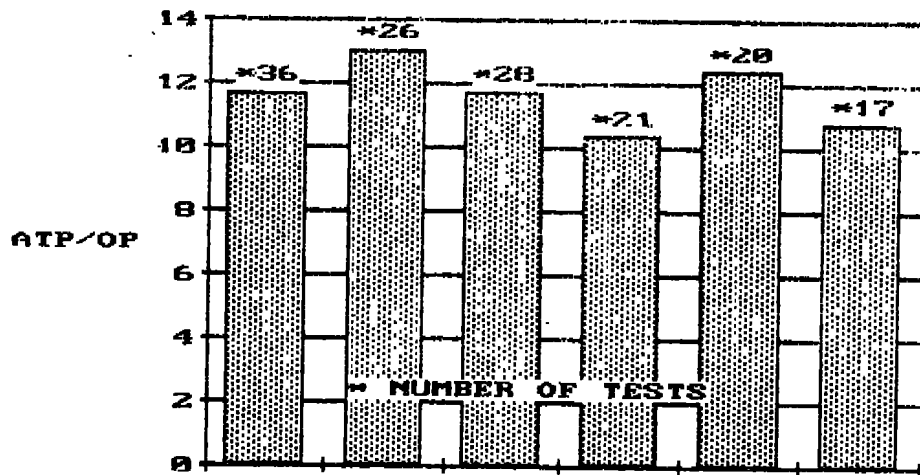


ALL TESTS

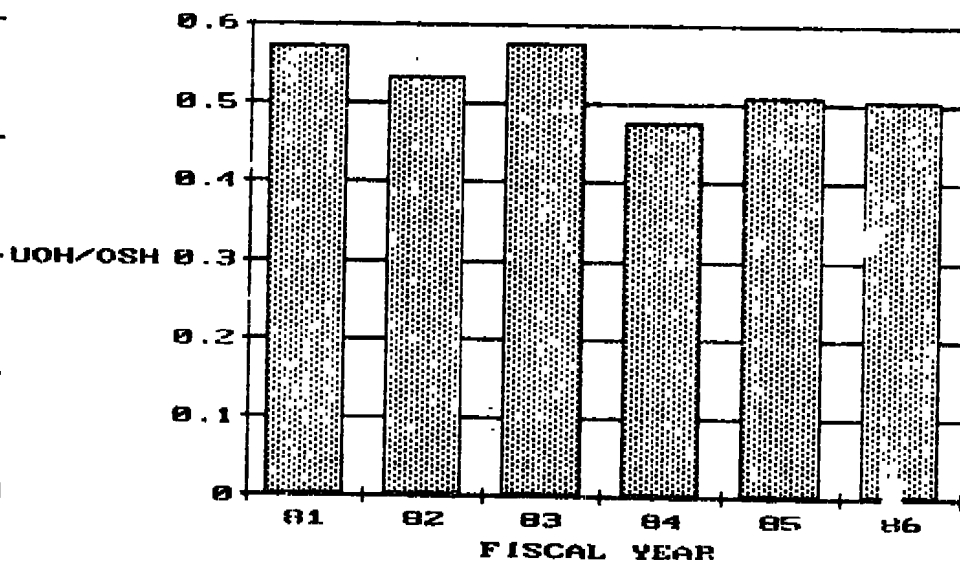
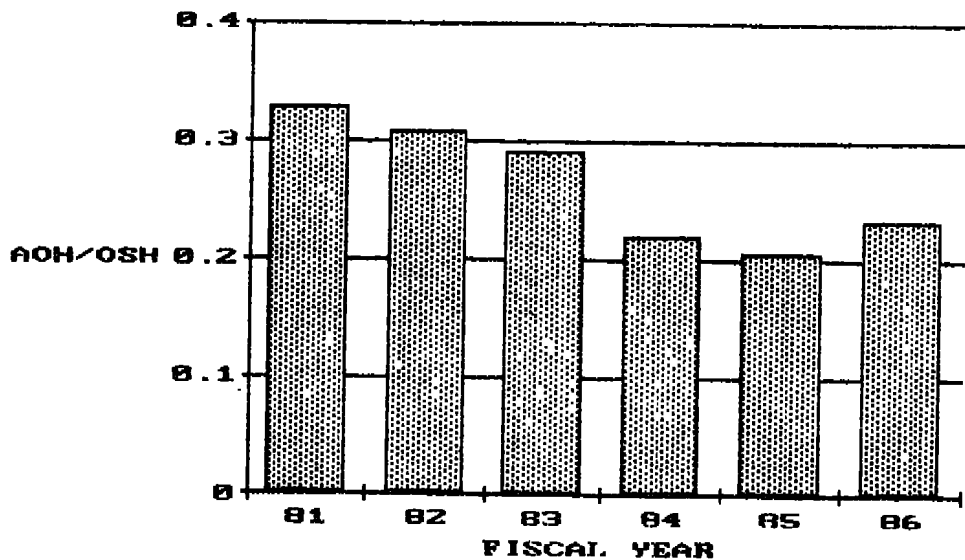
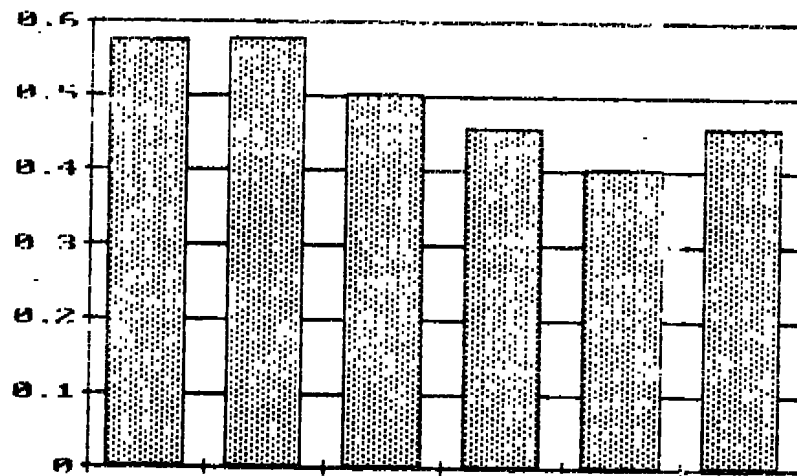


a. 4T
Figure 8. Miscellaneous Tunnel Statistics

ALL TESTS

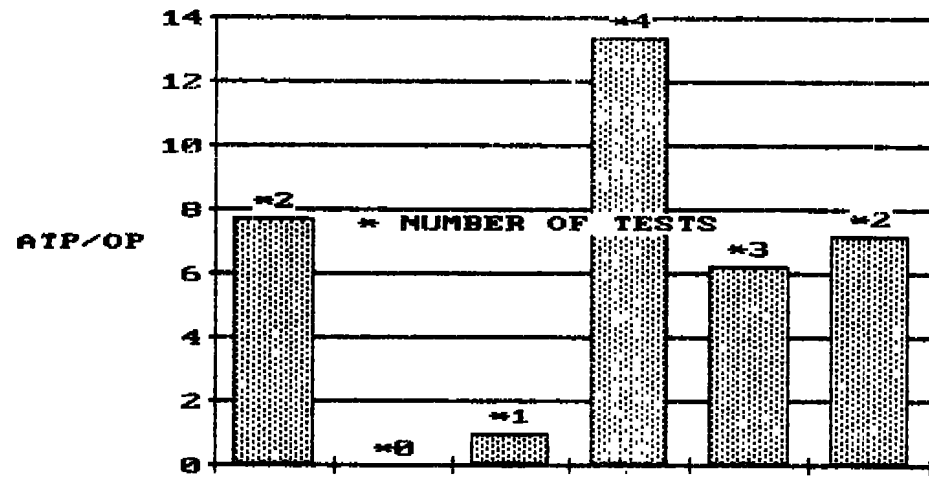


ALL TESTS

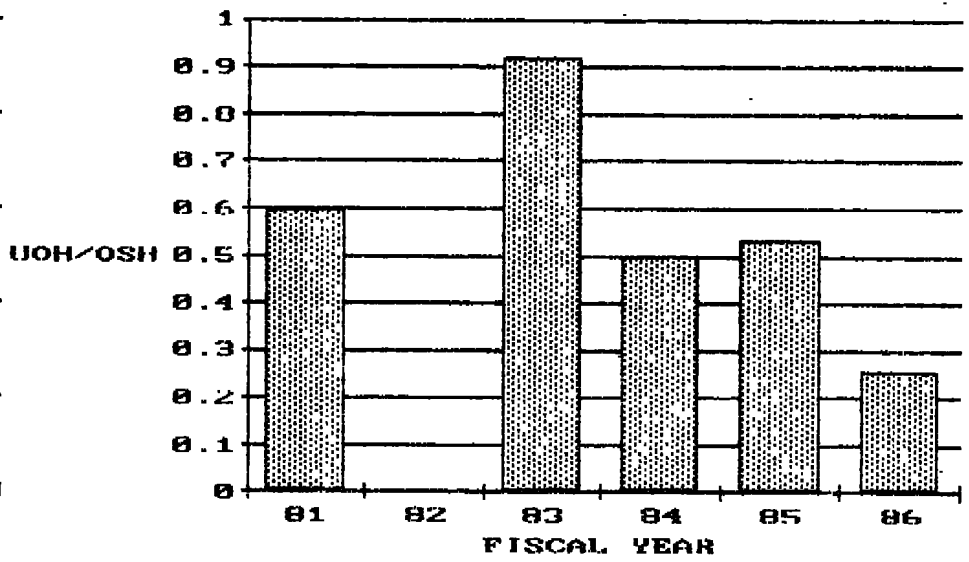
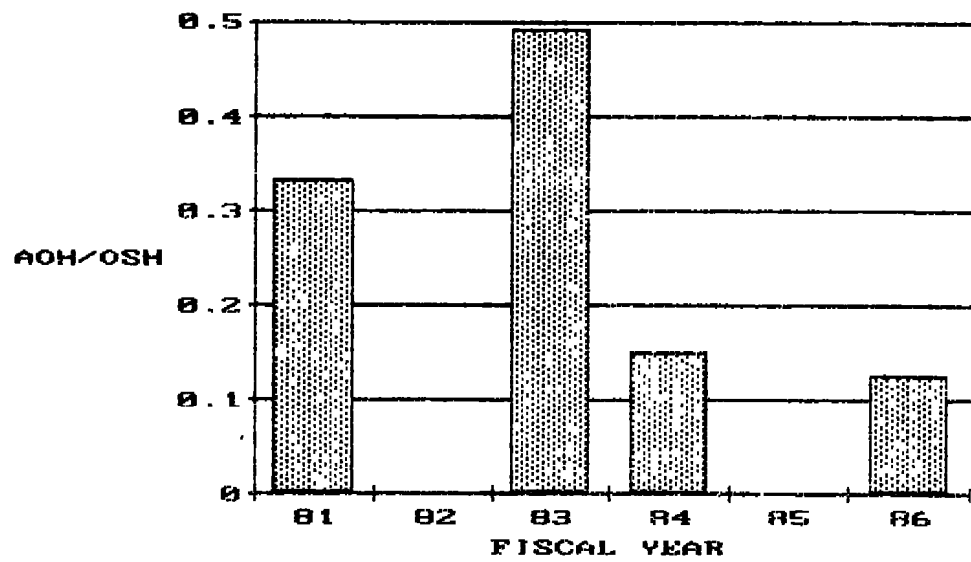
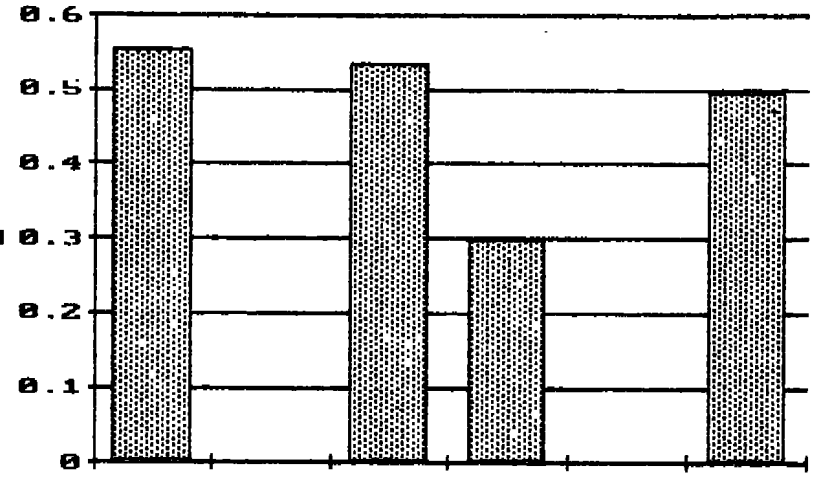


b. 16T
Figure 8. Continued

ALL TESTS



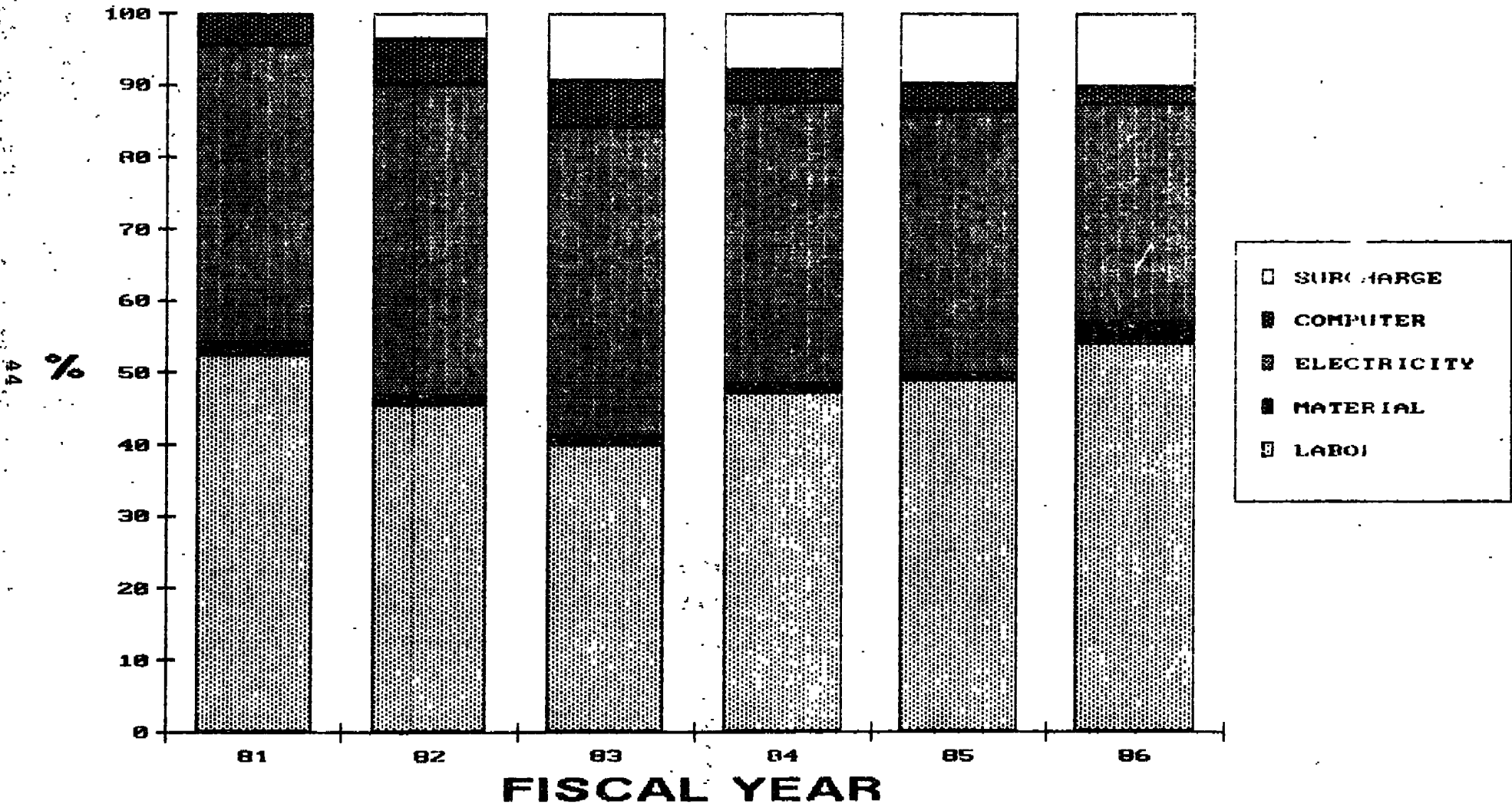
ALL TESTS



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c. 16S
Figure 8. Concluded

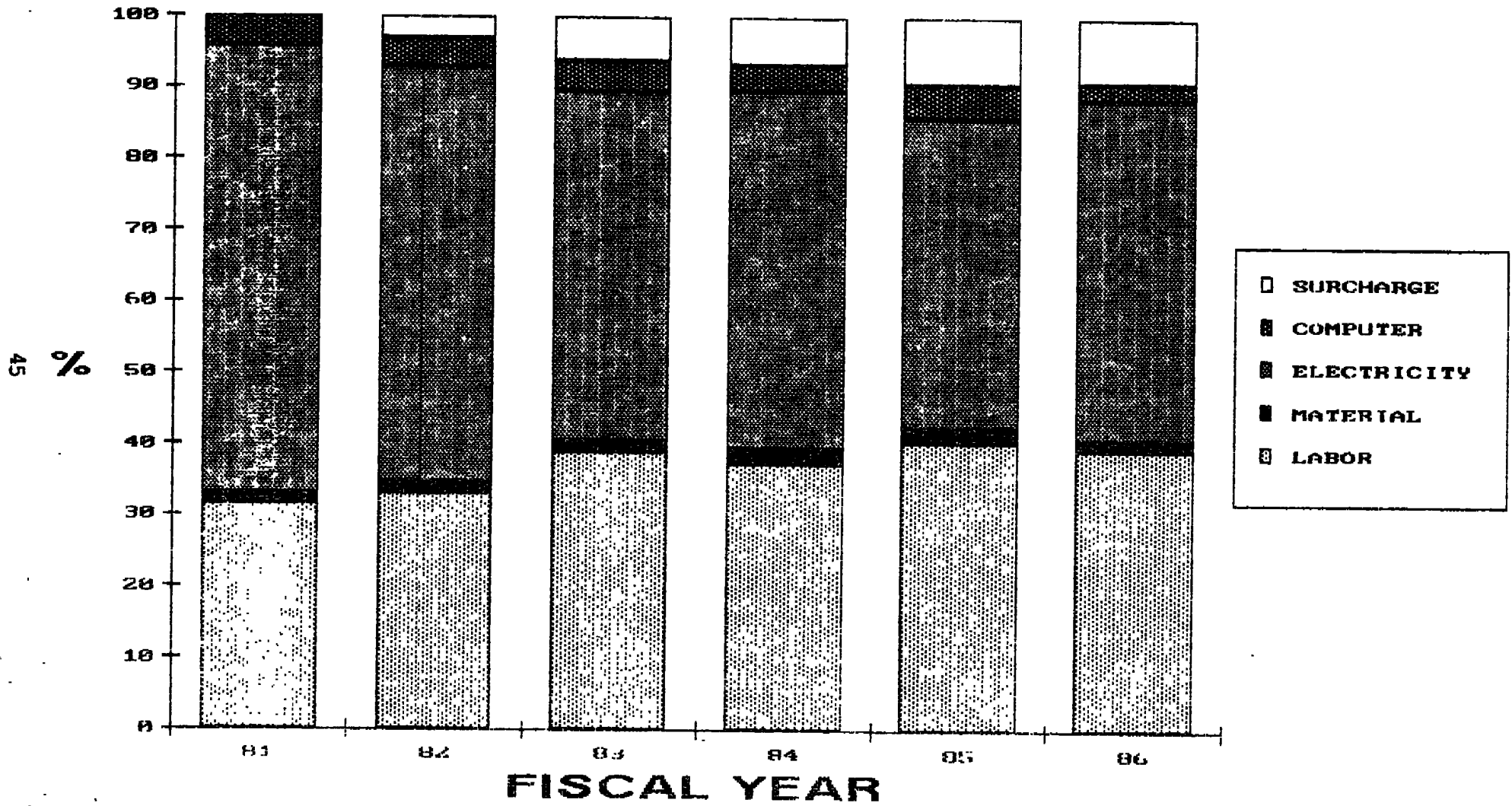
TUNNEL 4T PROJECT COST



a. 4T

Figure 9. Distribution of Operating Costs

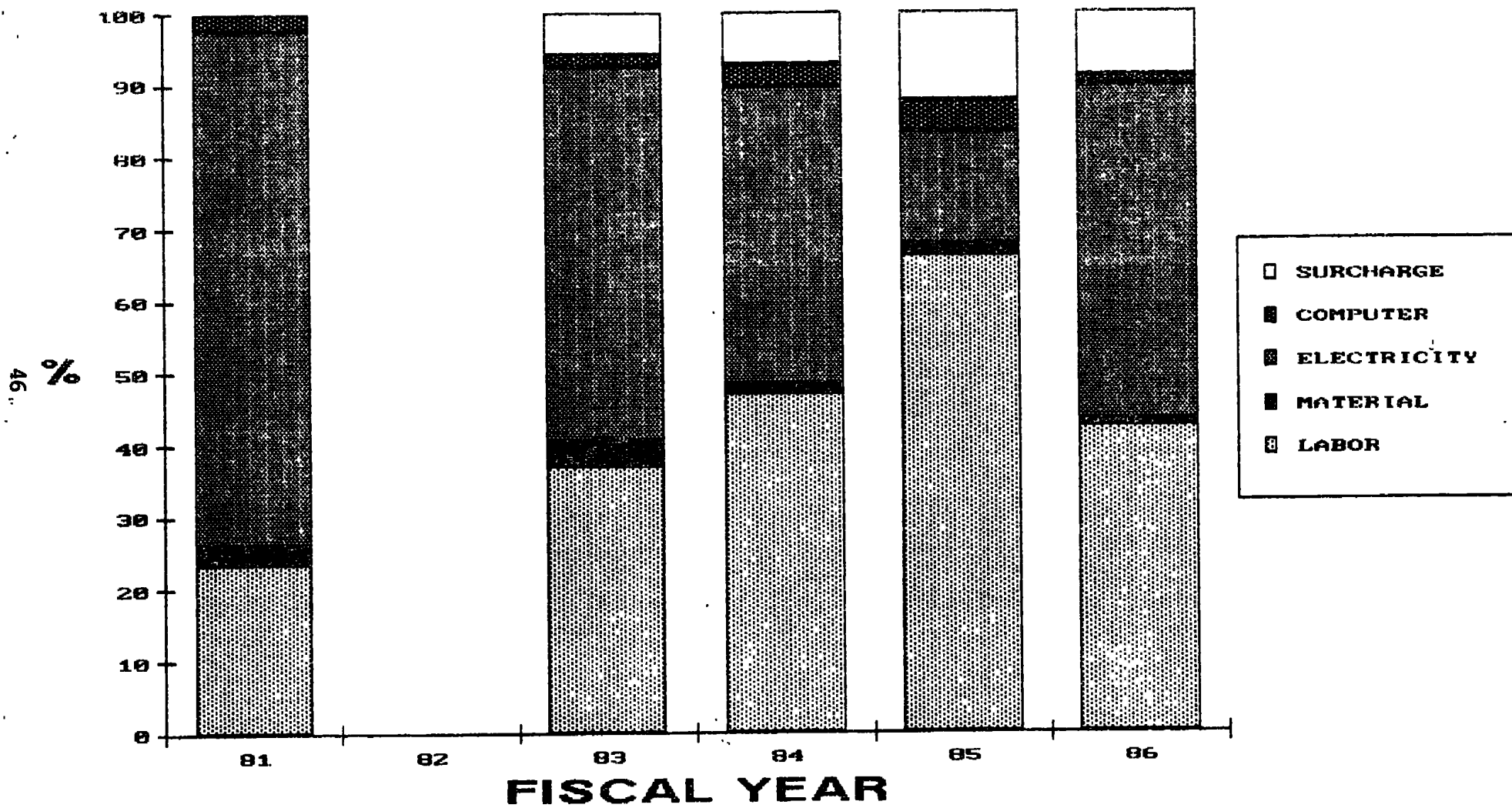
TUNNEL 16T PROJECT COST



b. 16T

Figure 9. Continued

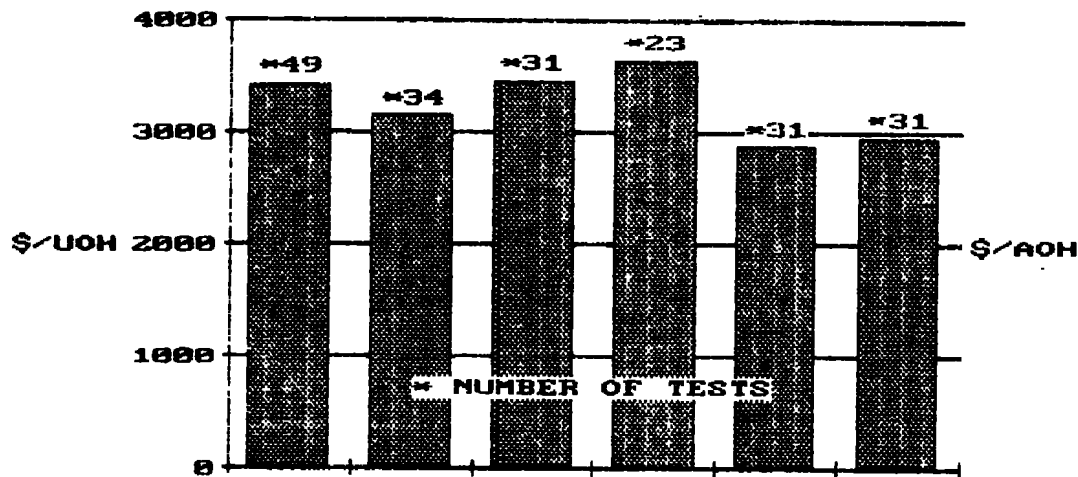
TUNNEL 16S PROJECT COST



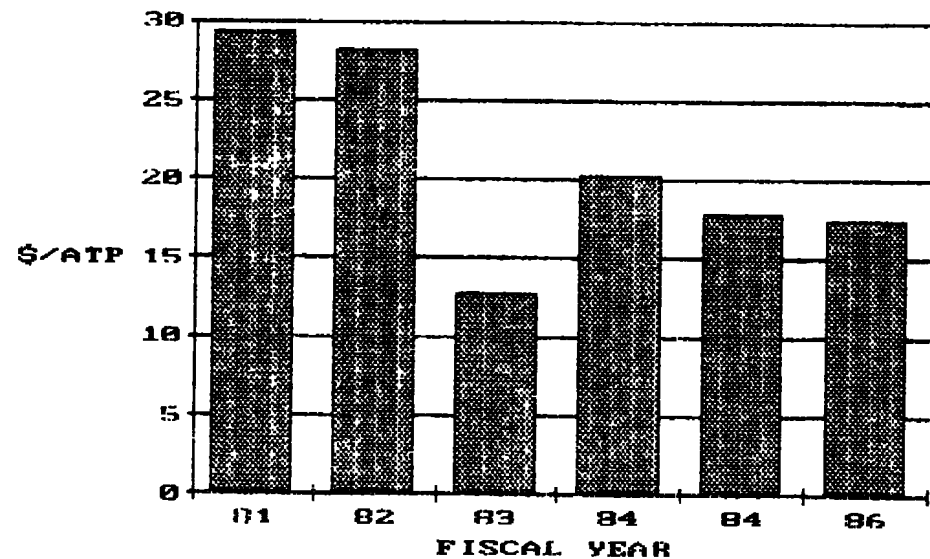
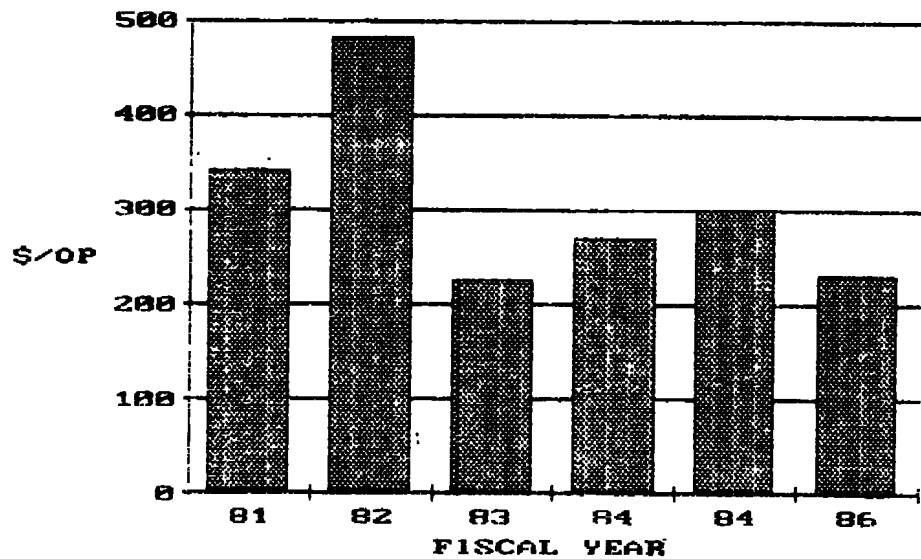
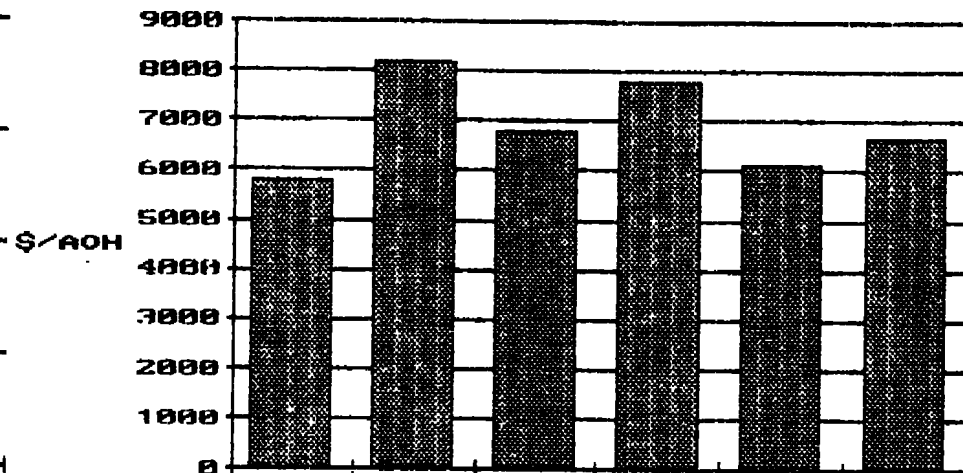
c. 16S

Figure 9. Concluded

ALL TESTS



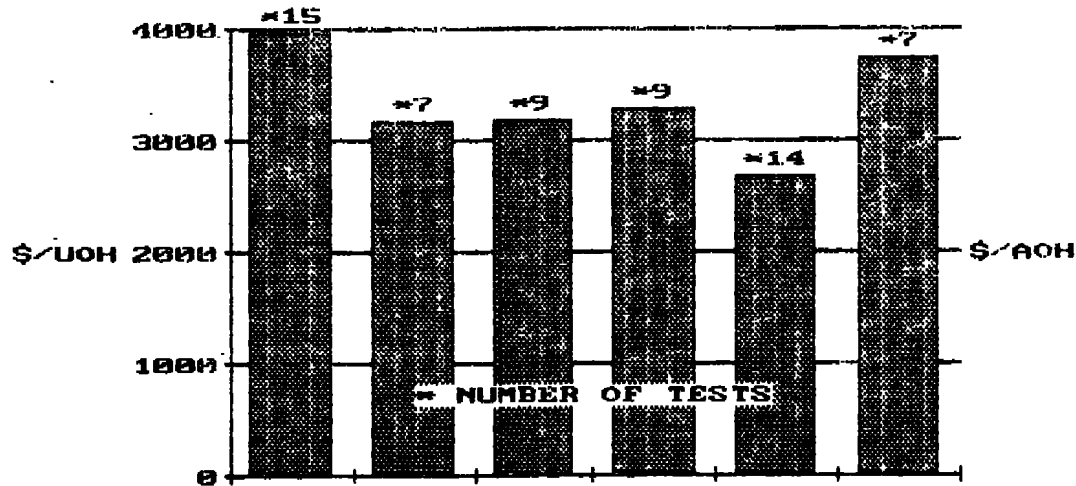
ALL TESTS



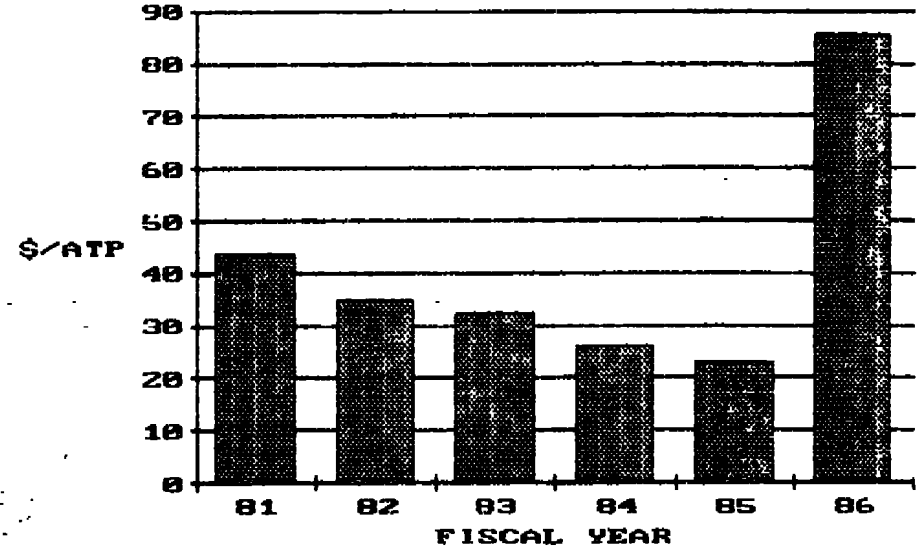
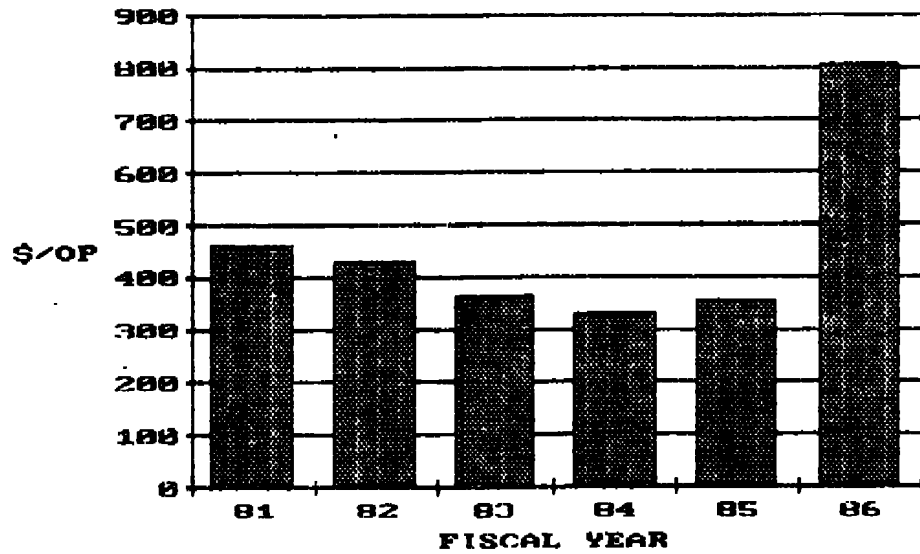
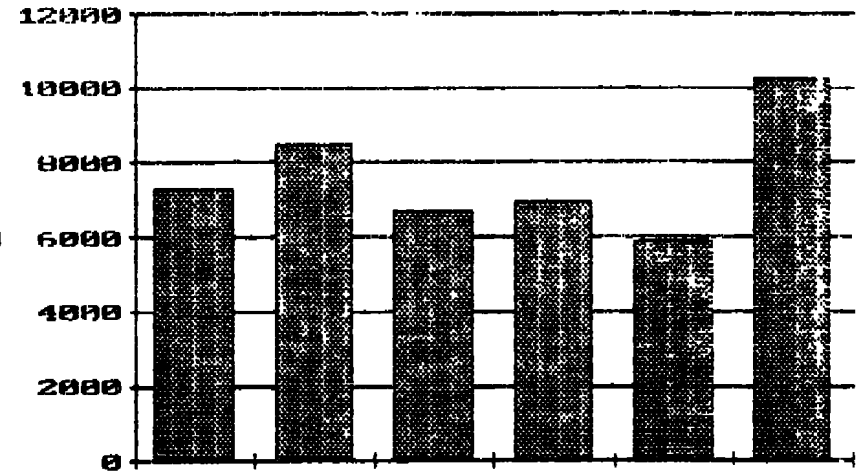
a. All Tests

Figure 10. Operations Cost Statistics for Tunnel 4T

BALC



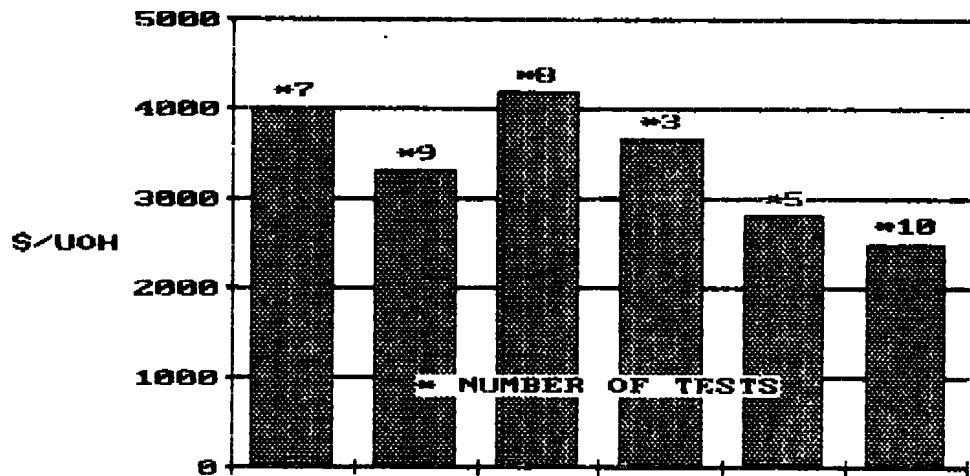
BALC



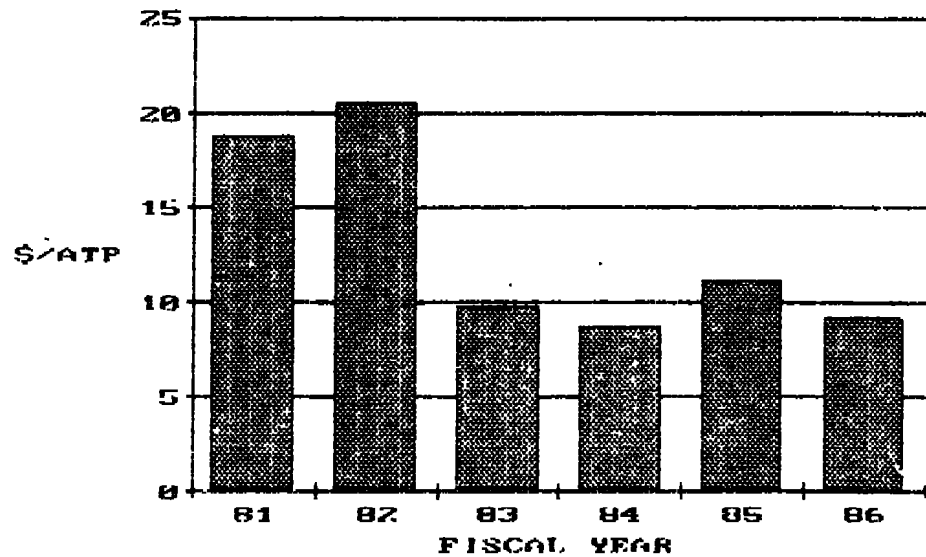
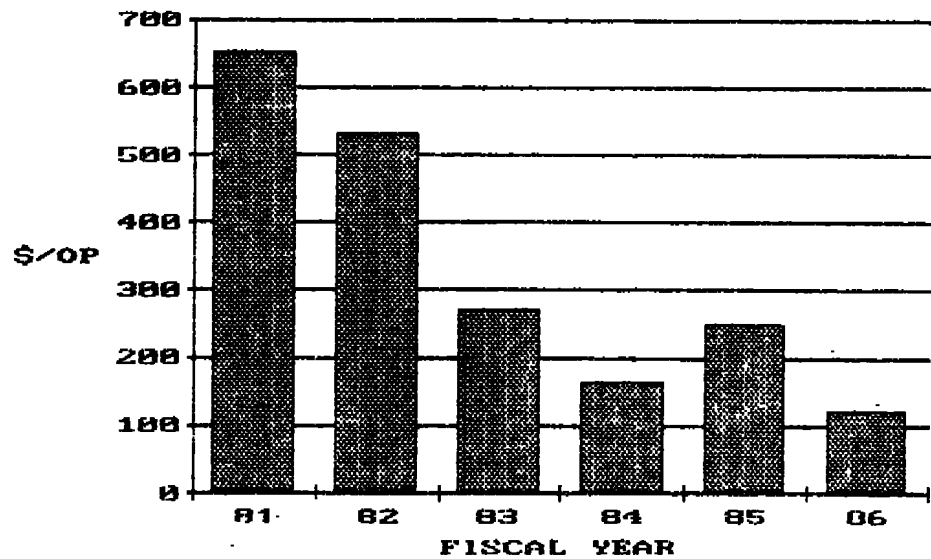
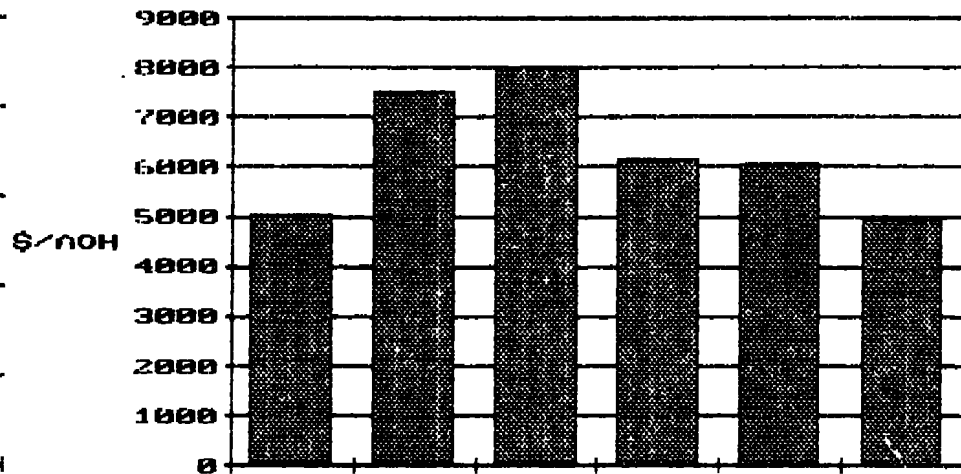
b. BALC

Figure 10. Continued

CTSC

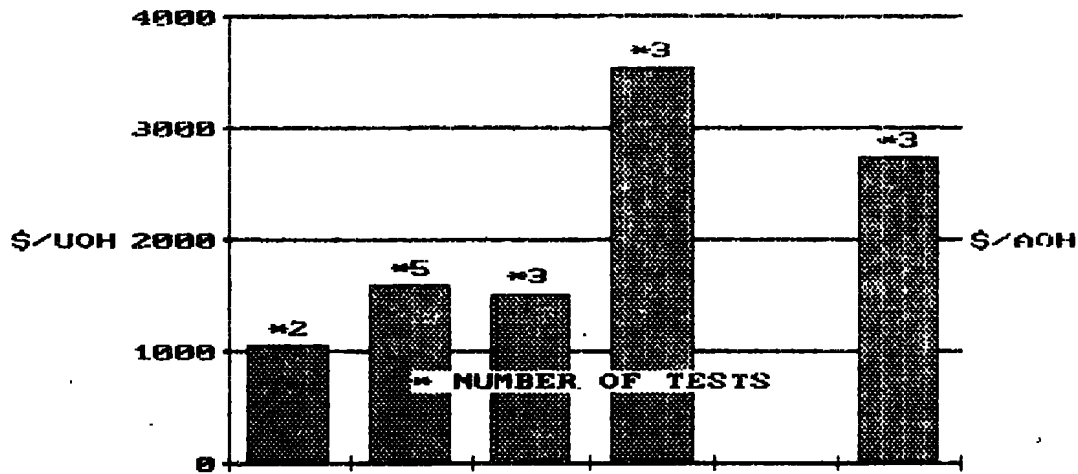


CTSC

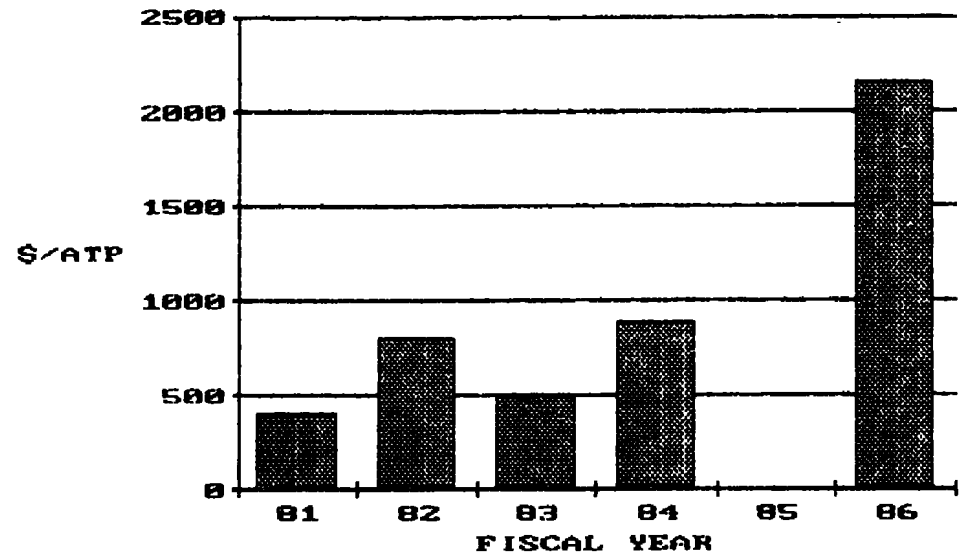
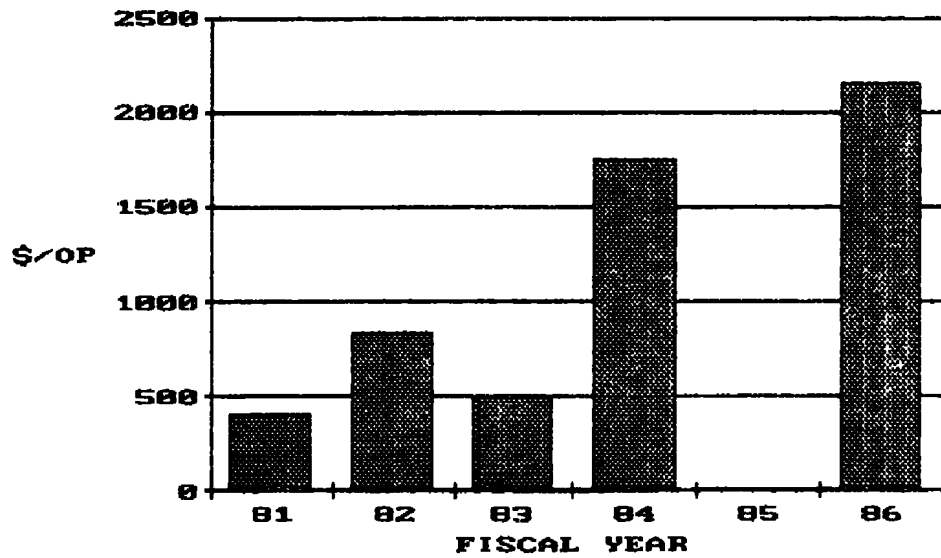
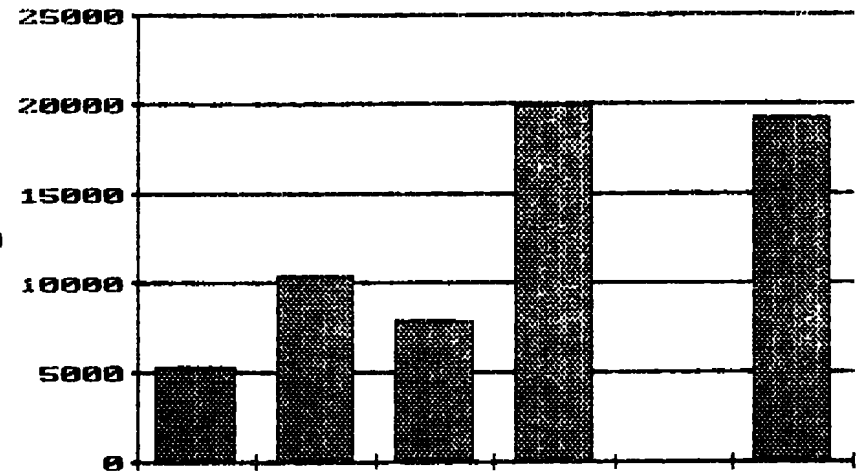


c. CTSC
Figure 10. Continued

DYDC



DYDC

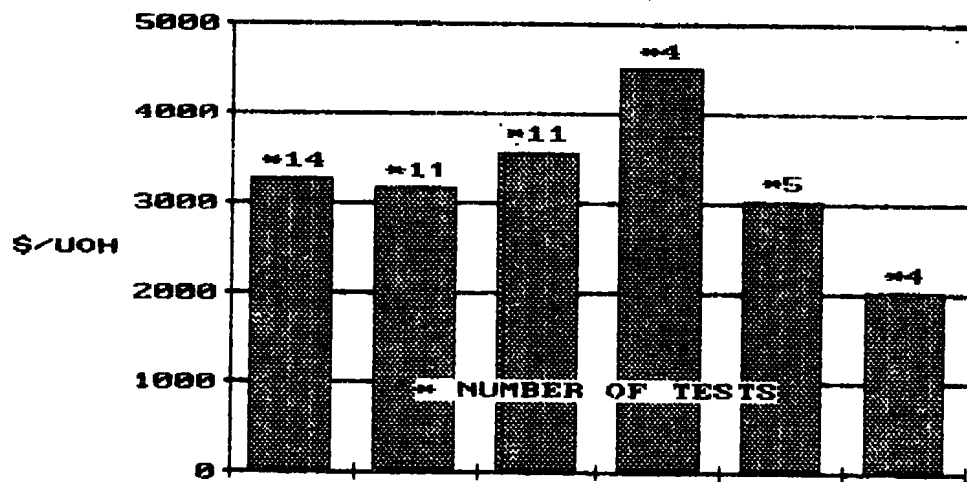


d. DYDC

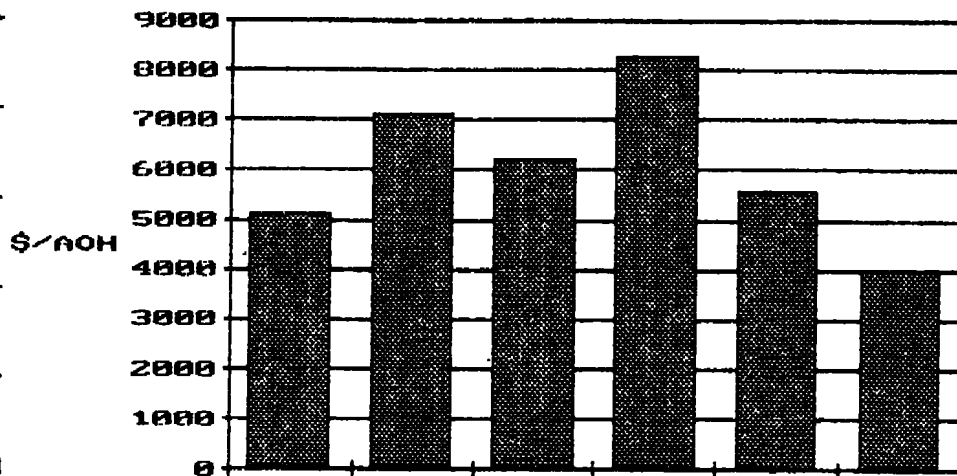
Figure 10. Continued

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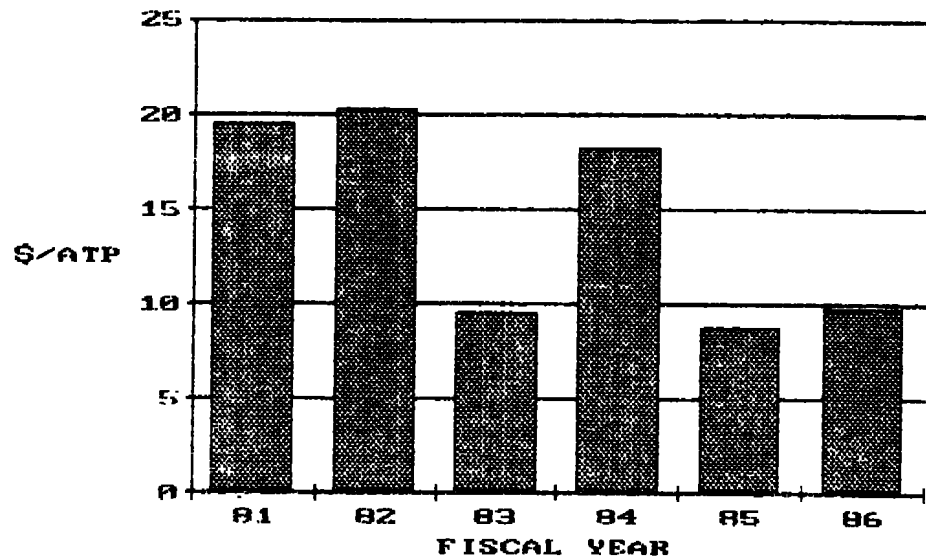
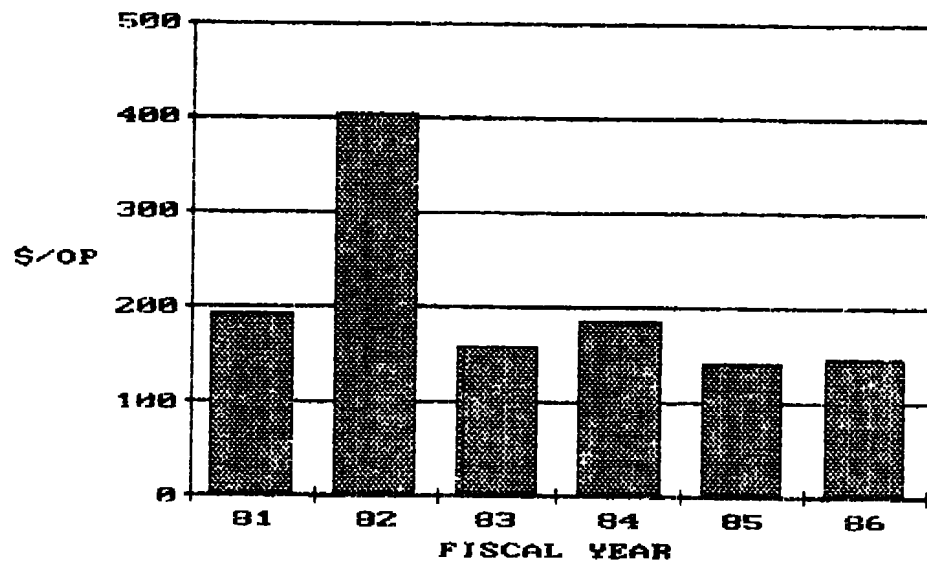
GRDC



GRDC



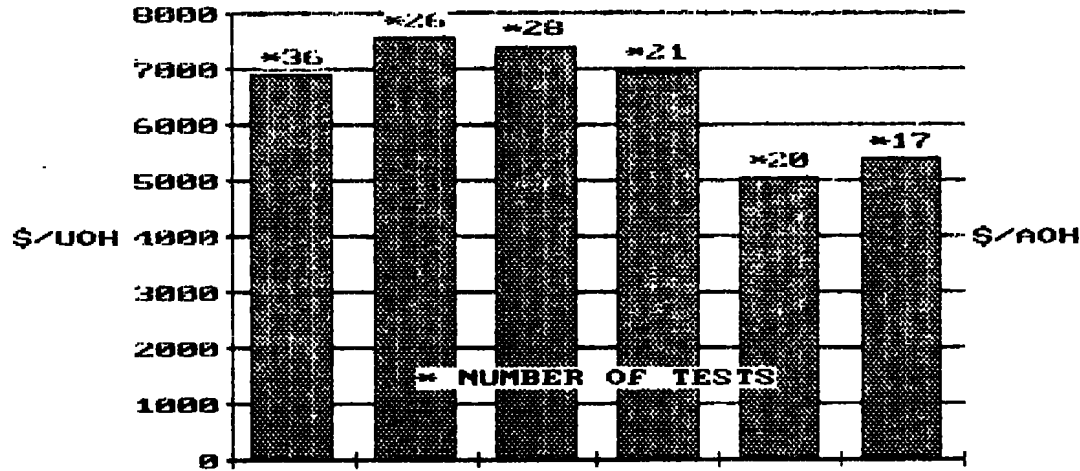
51



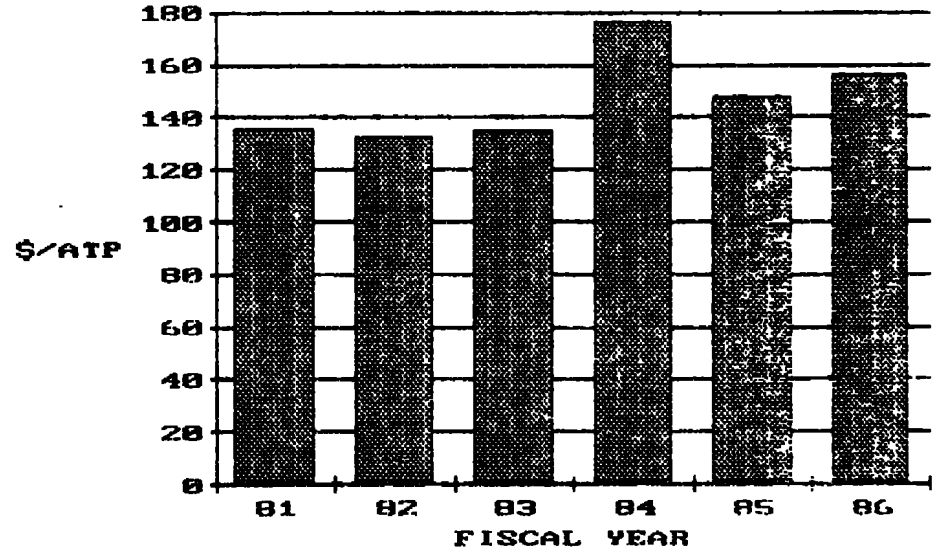
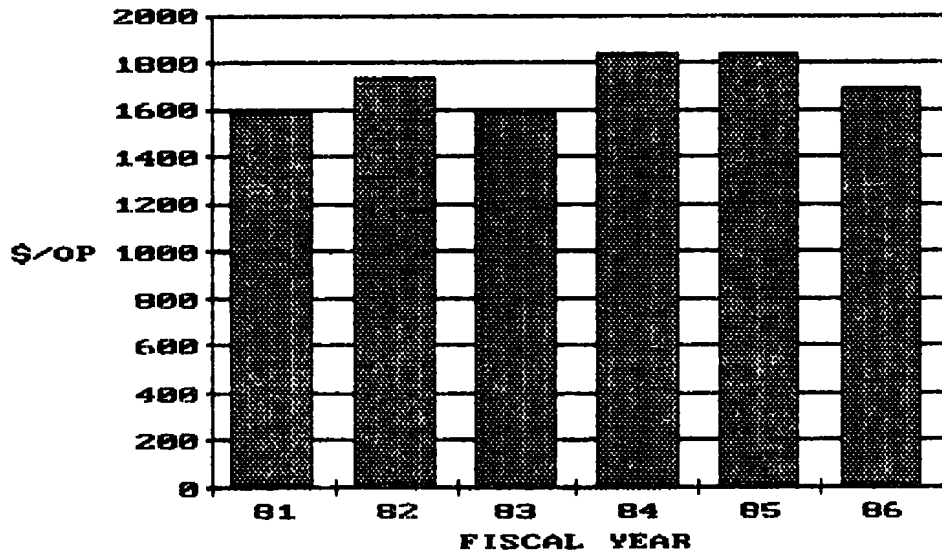
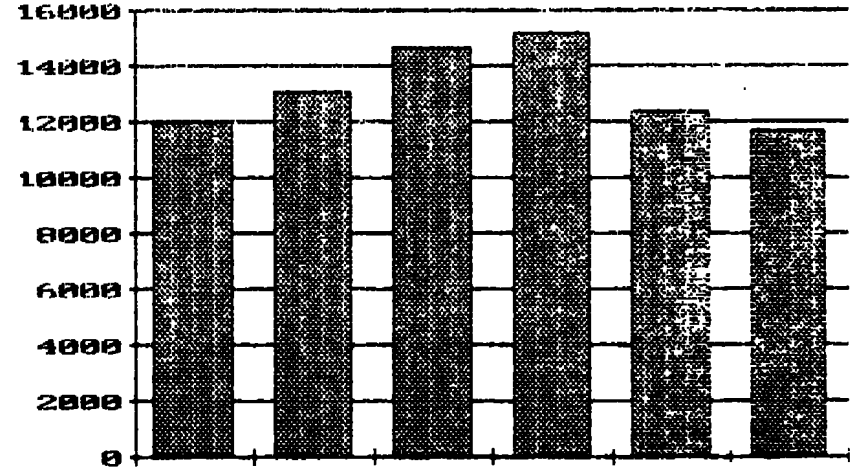
e. GRDC

Figure 10. Concluded

ALL TESTS



ALL TESTS

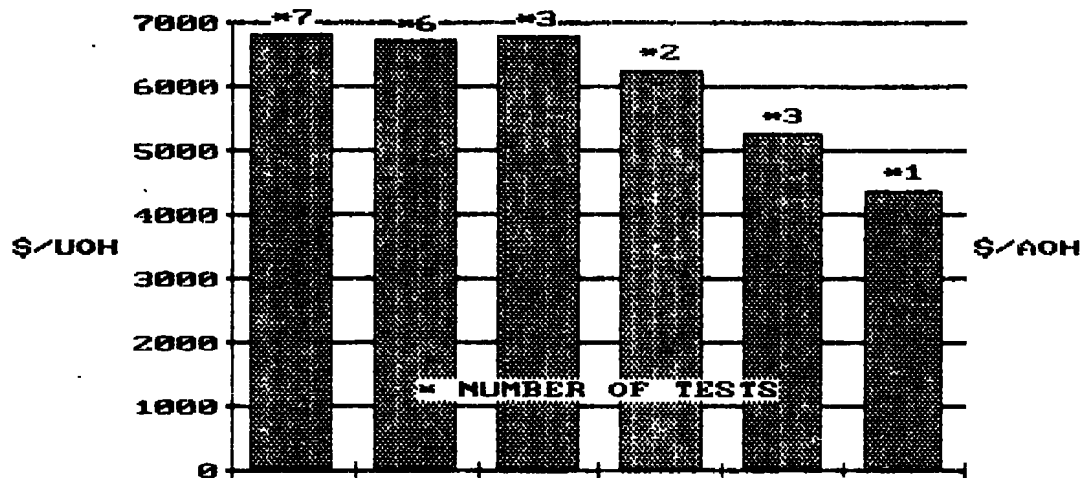


a. All Tests

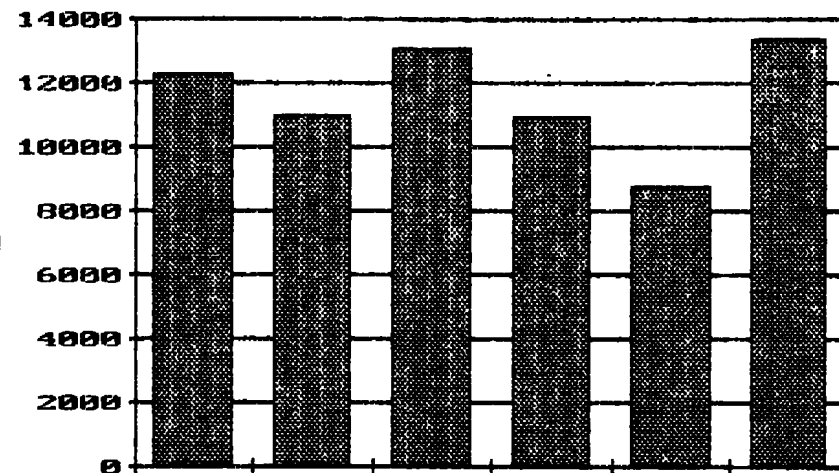
Figure 11. Operations Cost Statistics for Tunnel 16T

52

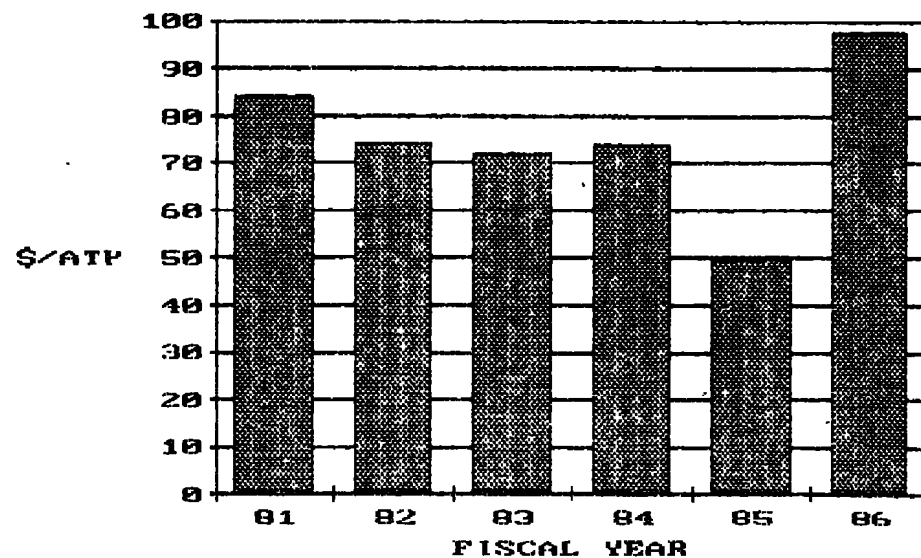
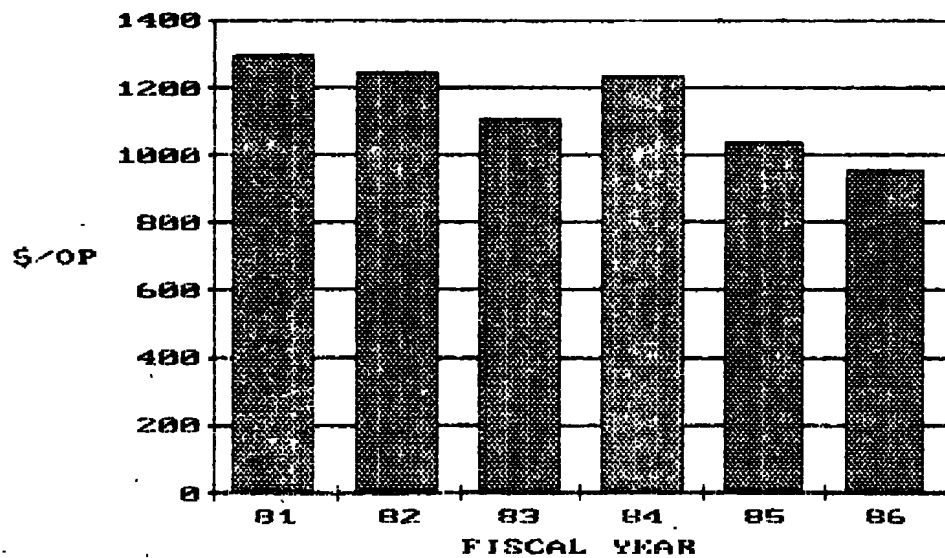
BALT



BALT



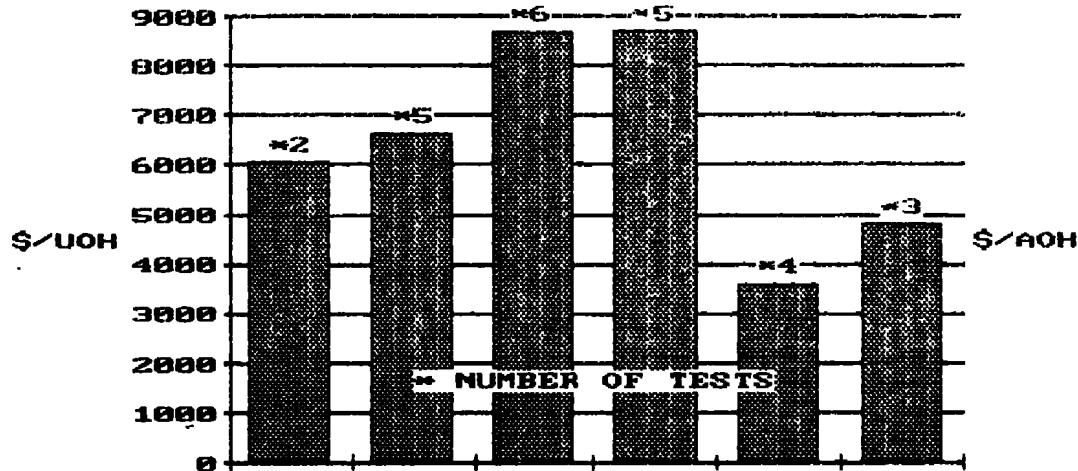
53



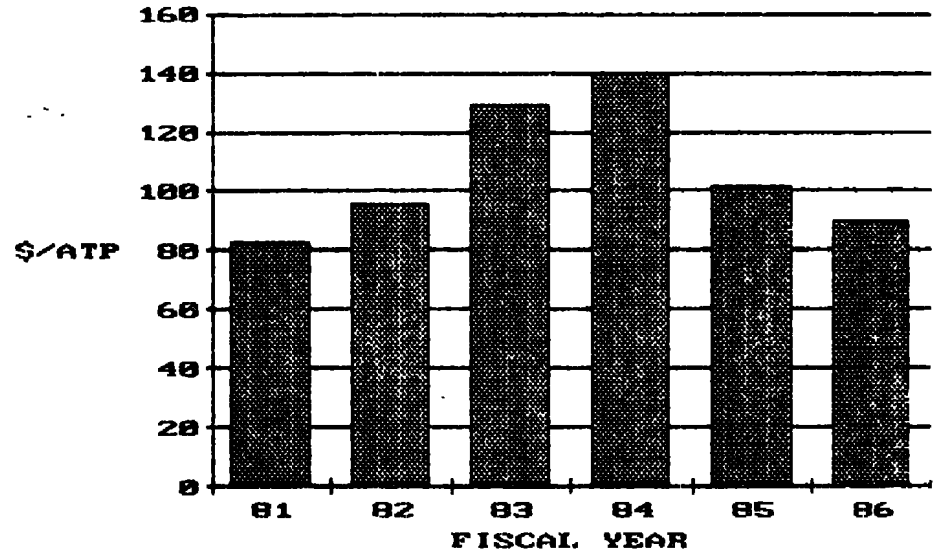
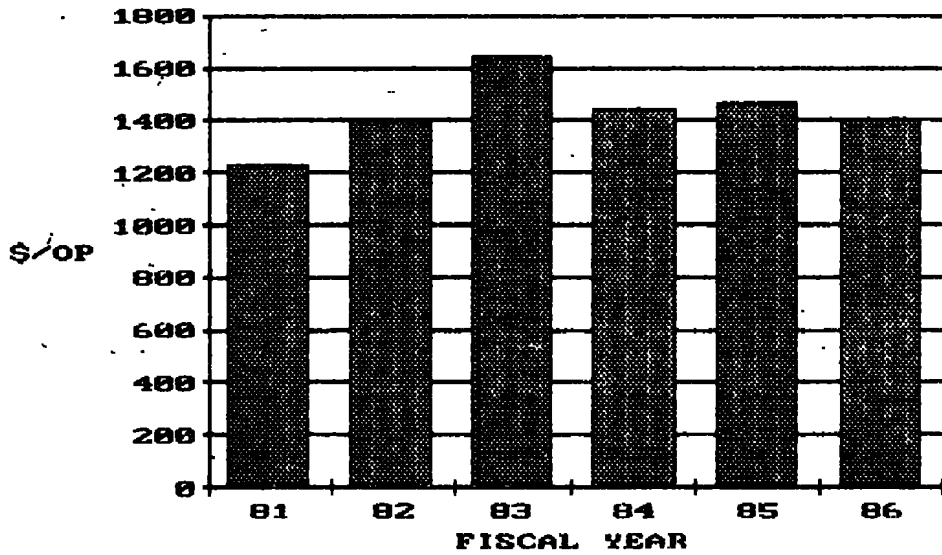
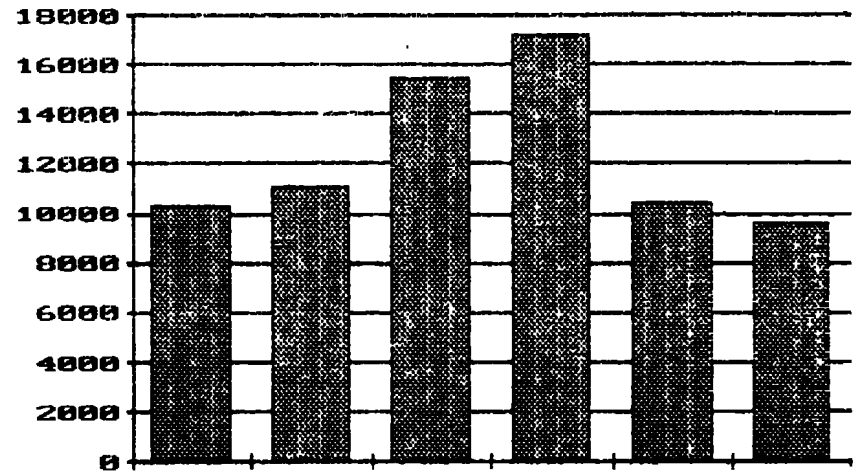
b. BALT

Figure 11. Continued

BAPT



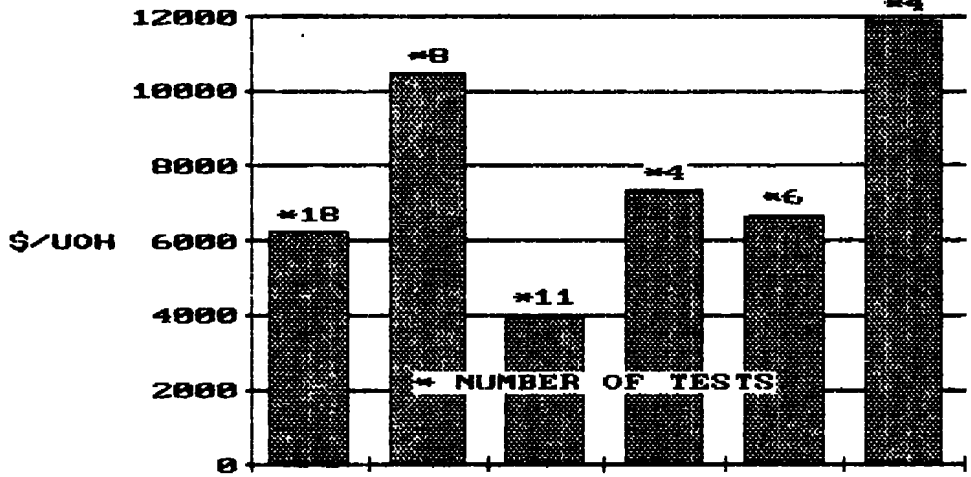
BAPT



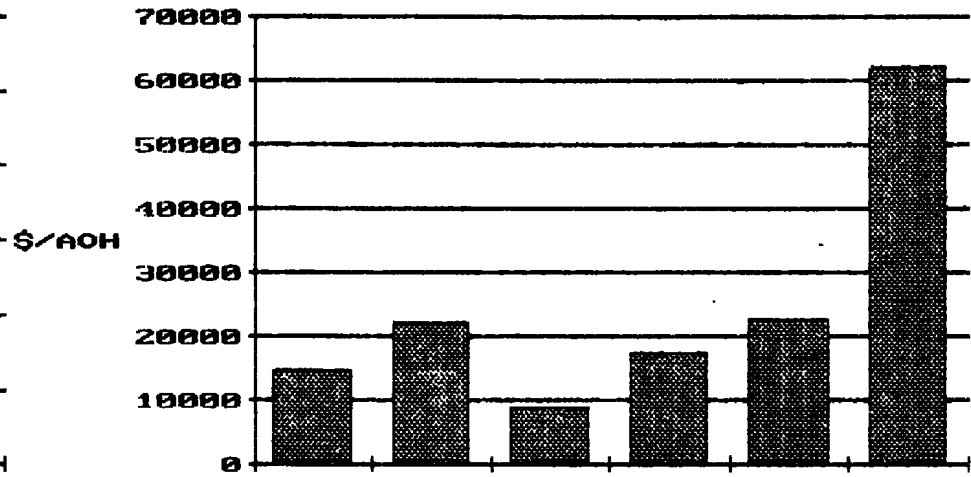
c. BAPT

Figure 11. Continued

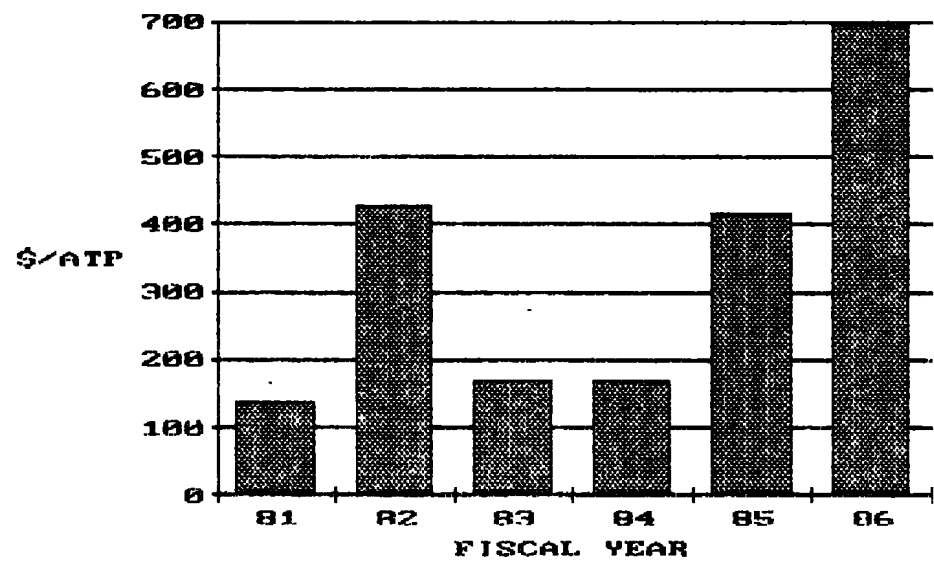
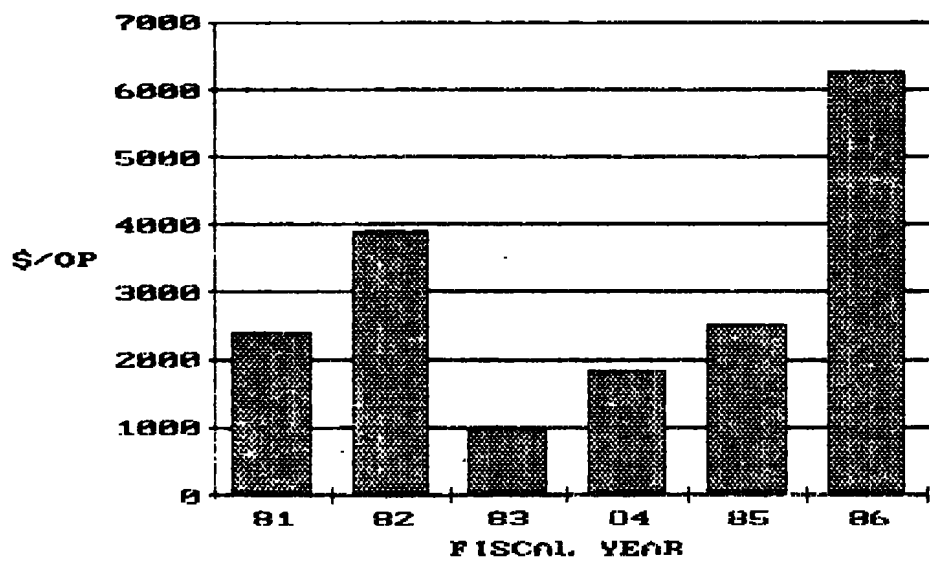
MIST



MIST

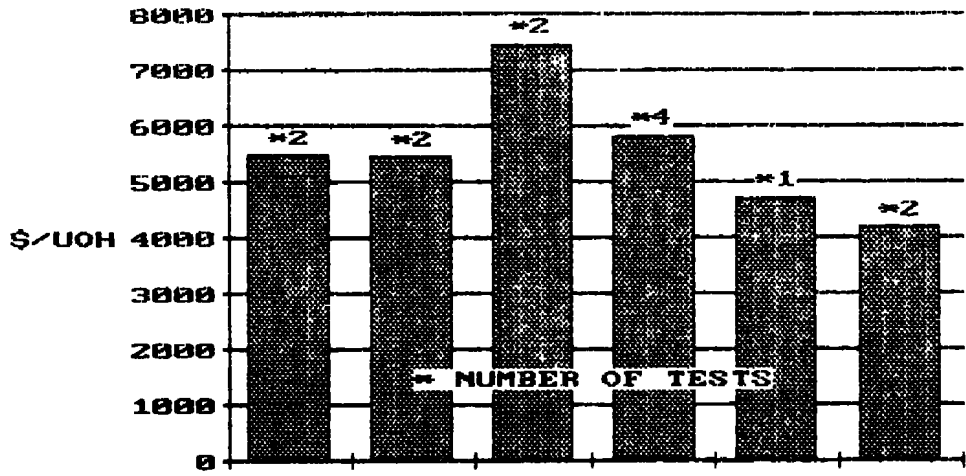


55

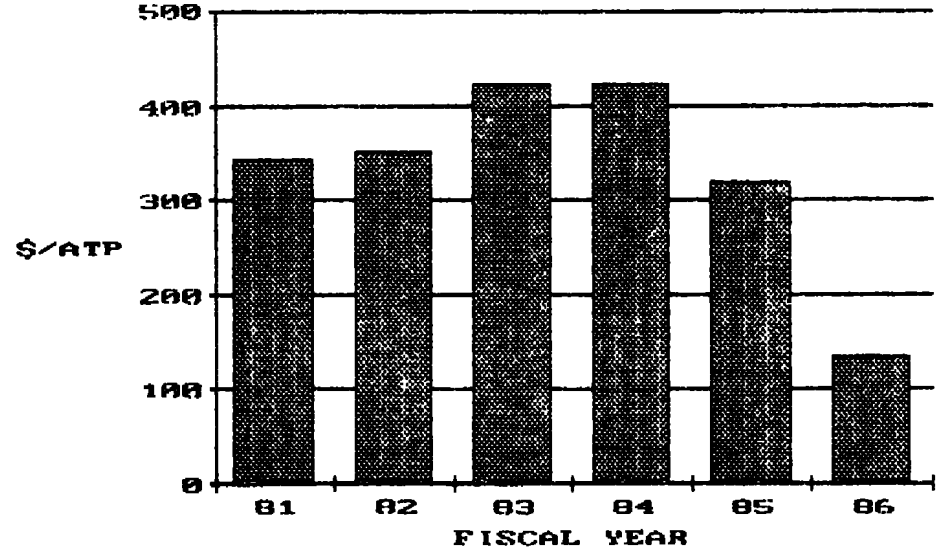
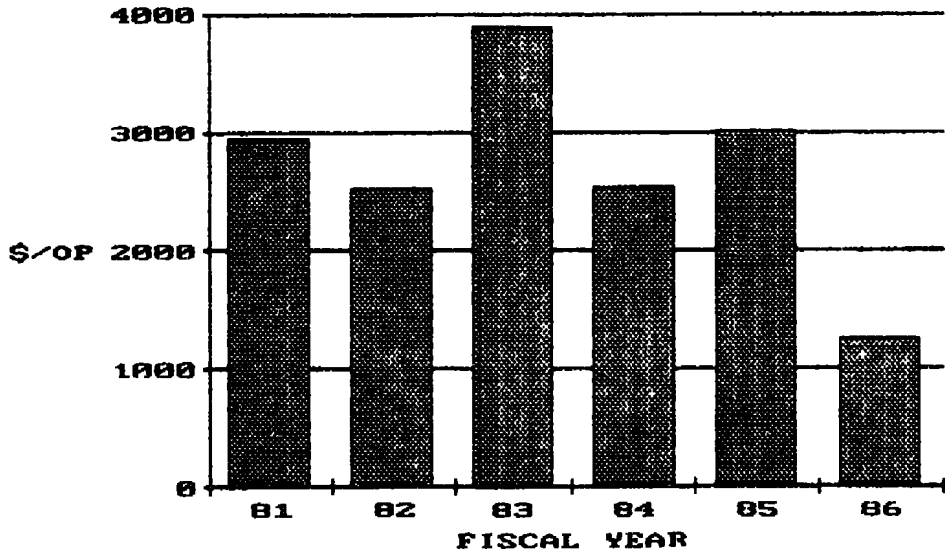
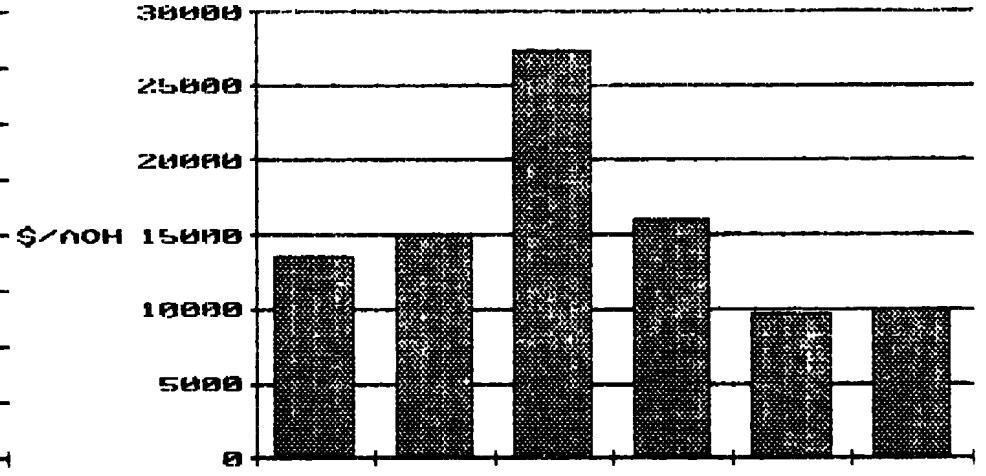


d. MIST
Figure 11. Continued

NABT

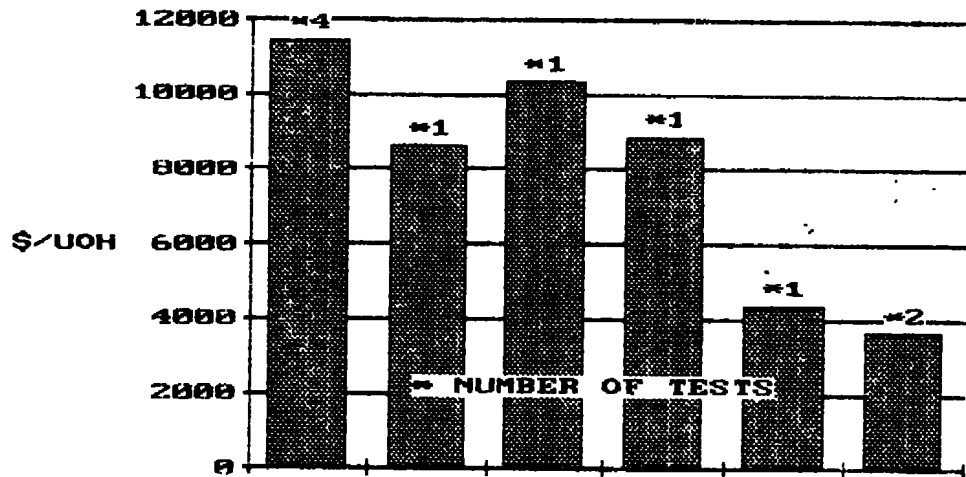


NABT

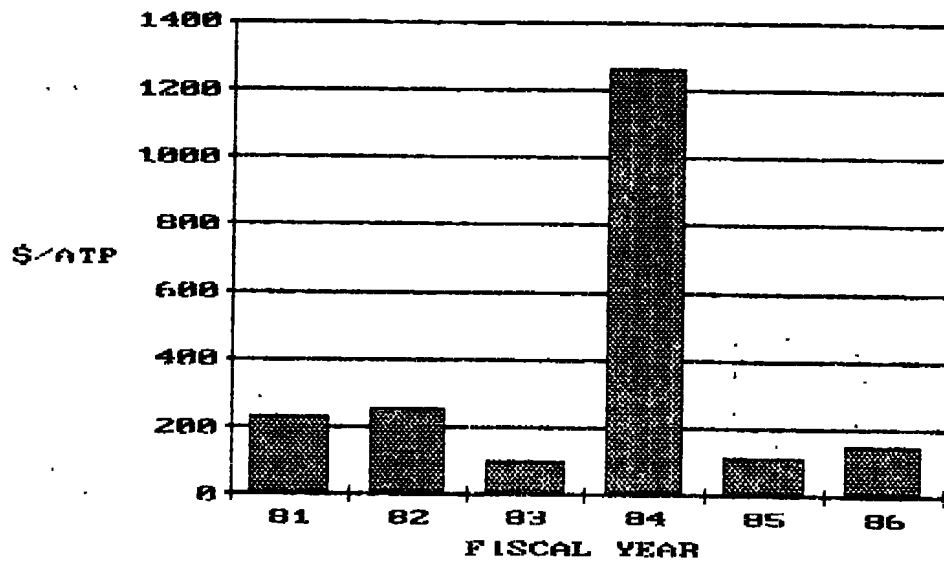
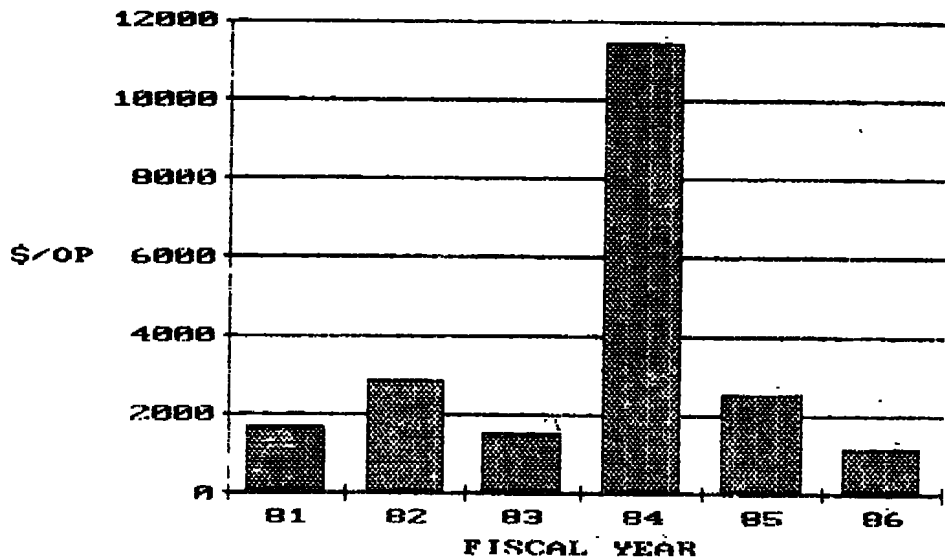
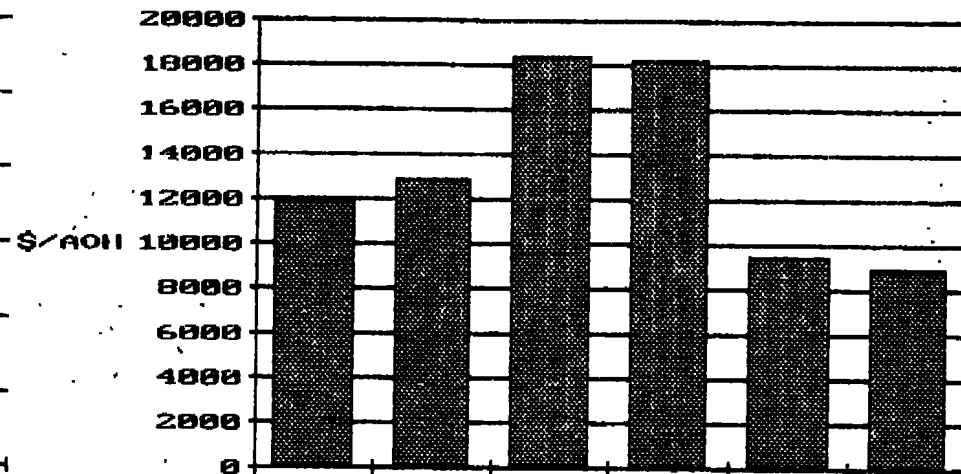


e. NABT
Figure 11. Continued

PRST



PRST

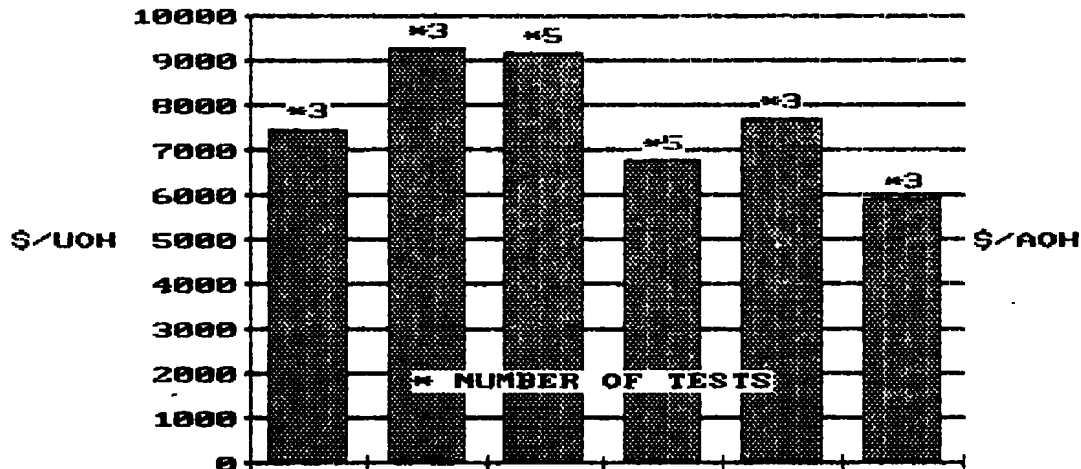


57

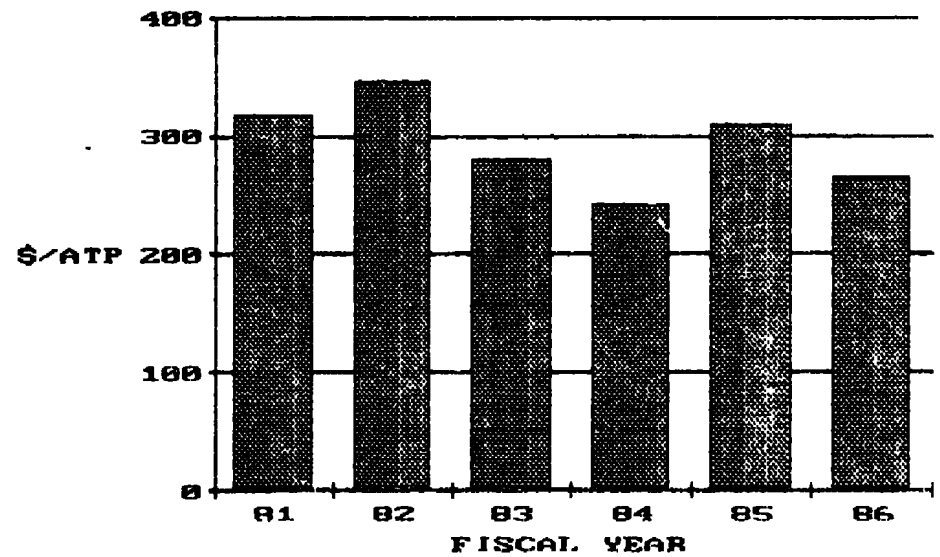
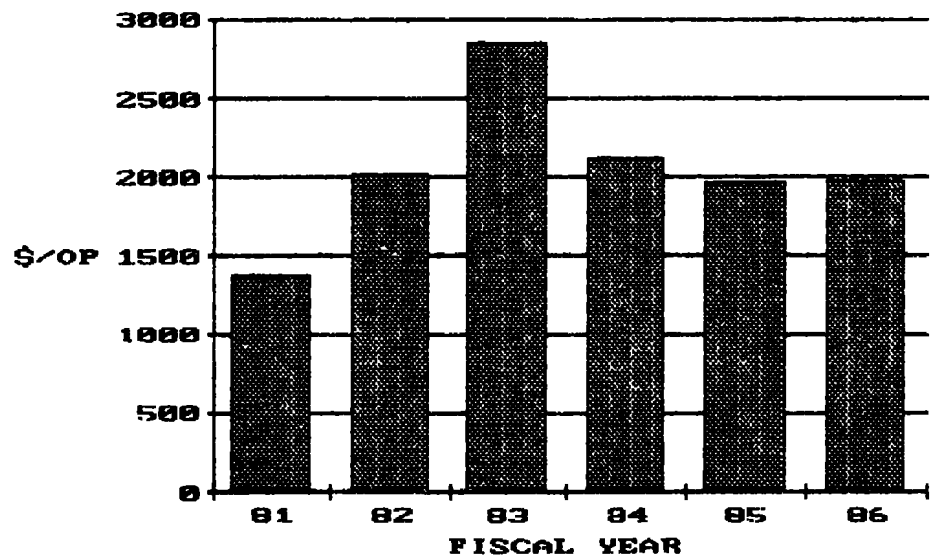
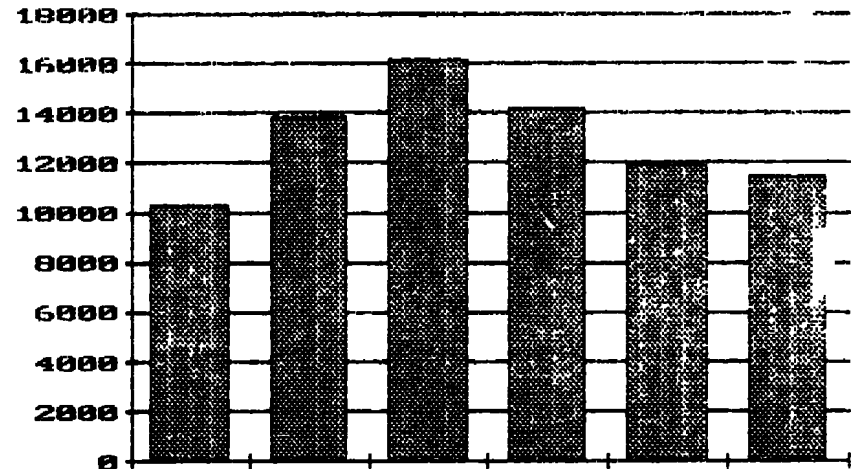
f. PRST

Figure 11. Continued

SIPT

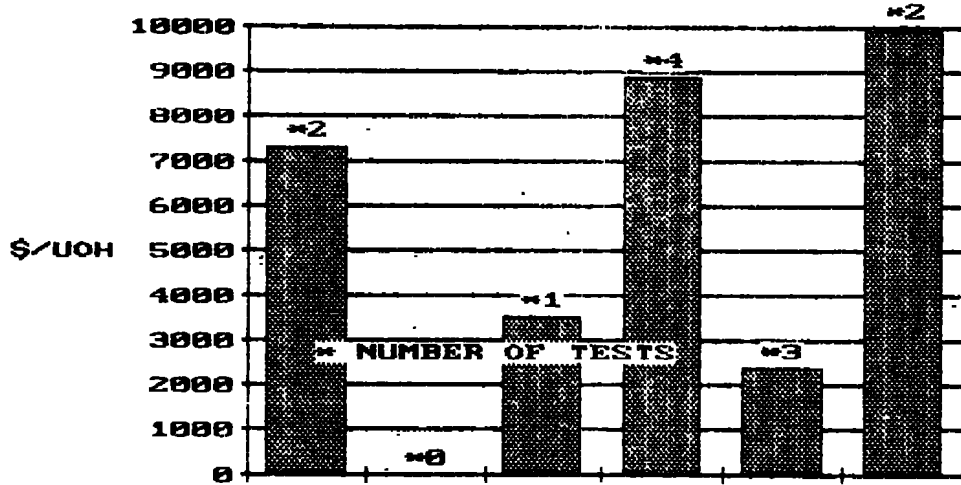


SIPT



g. SIPT
Figure 11. Concluded

ALL TESTS



ALL TESTS

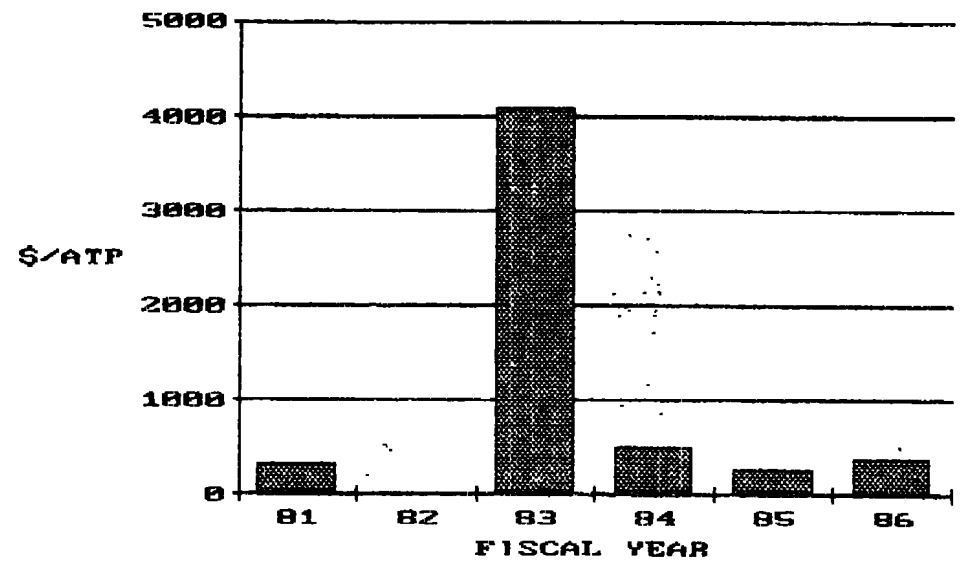
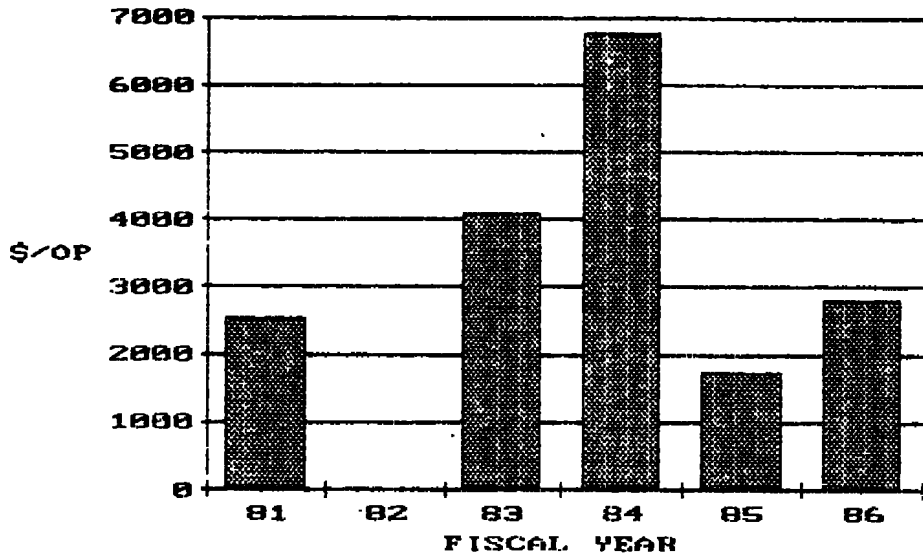
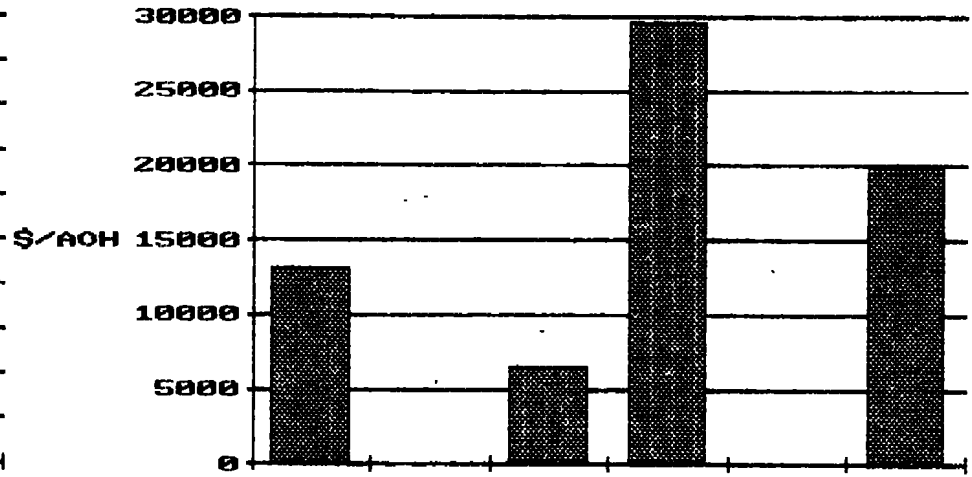
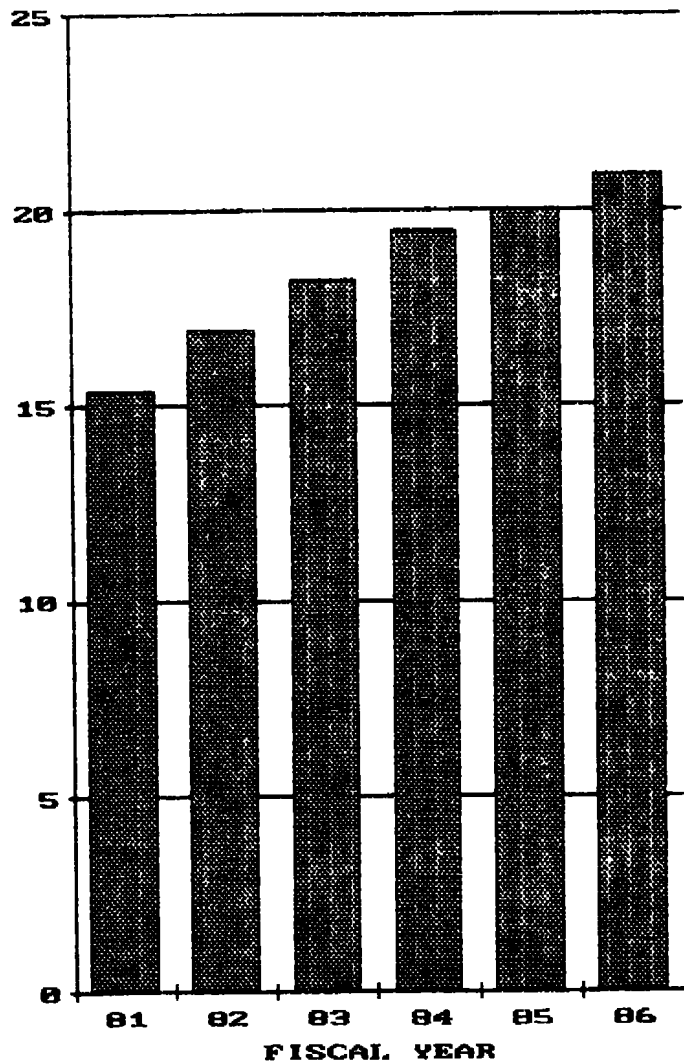


Figure 12. Operations Cost Statistics for Tunnel 16S (All Tests)

LABOR



ELECTRICITY

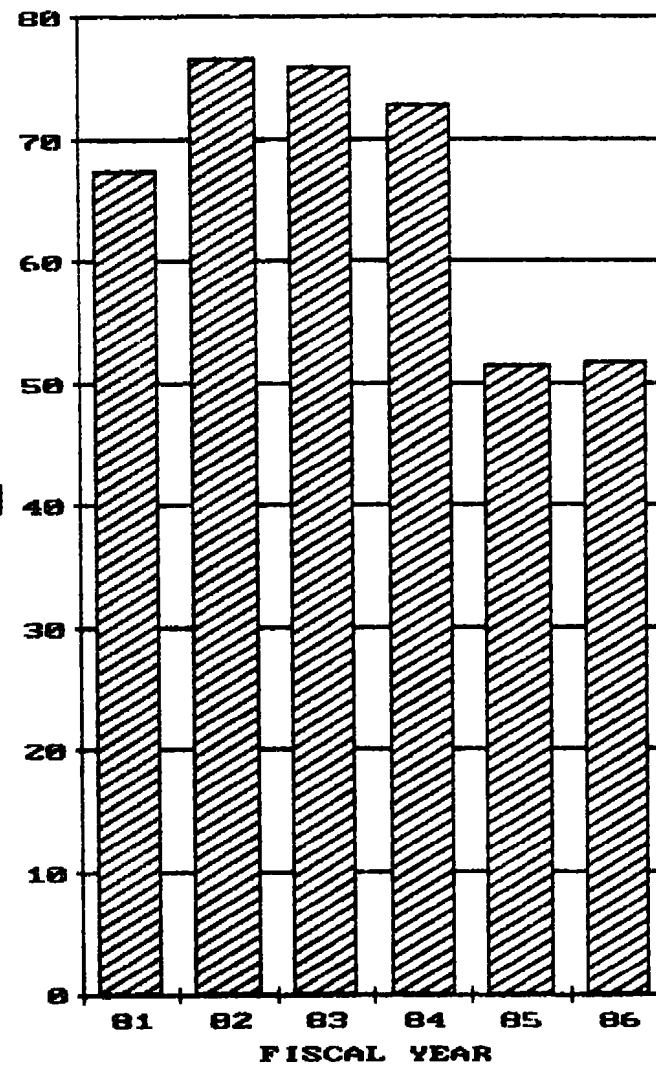
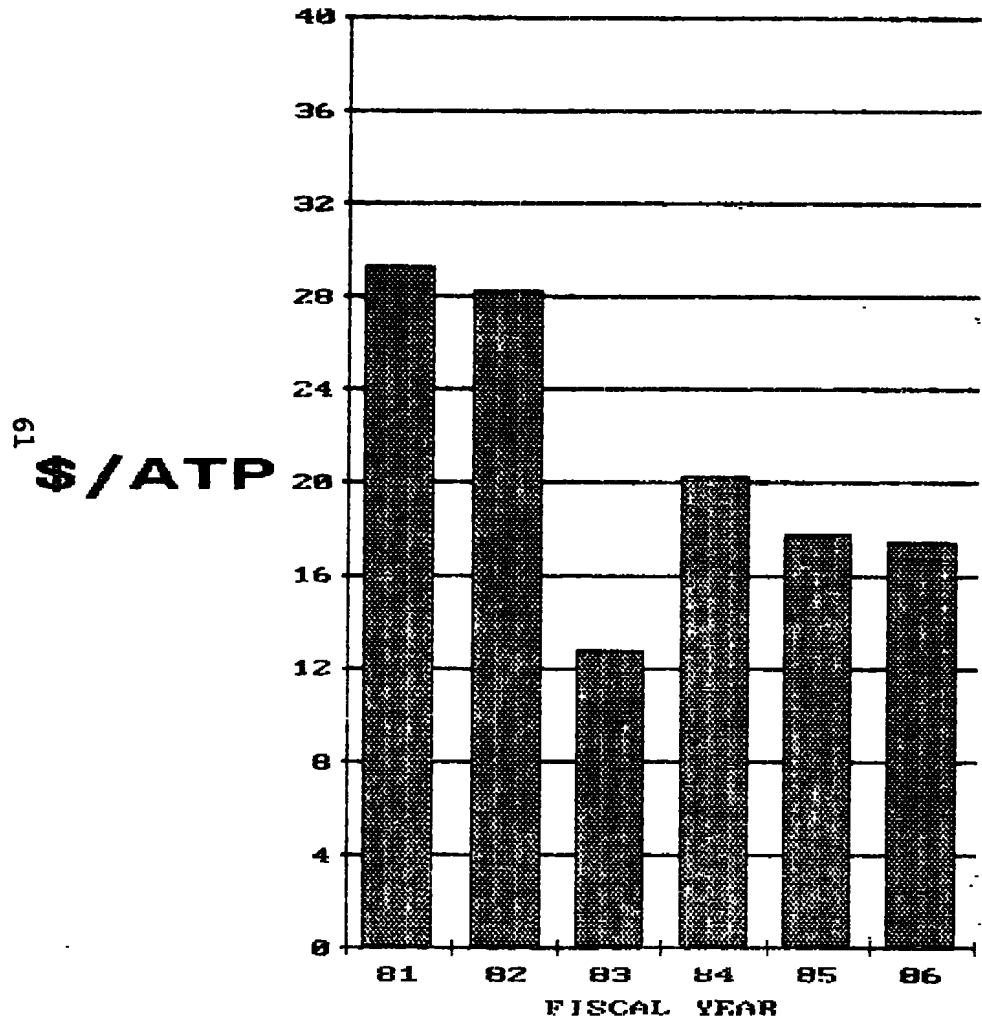
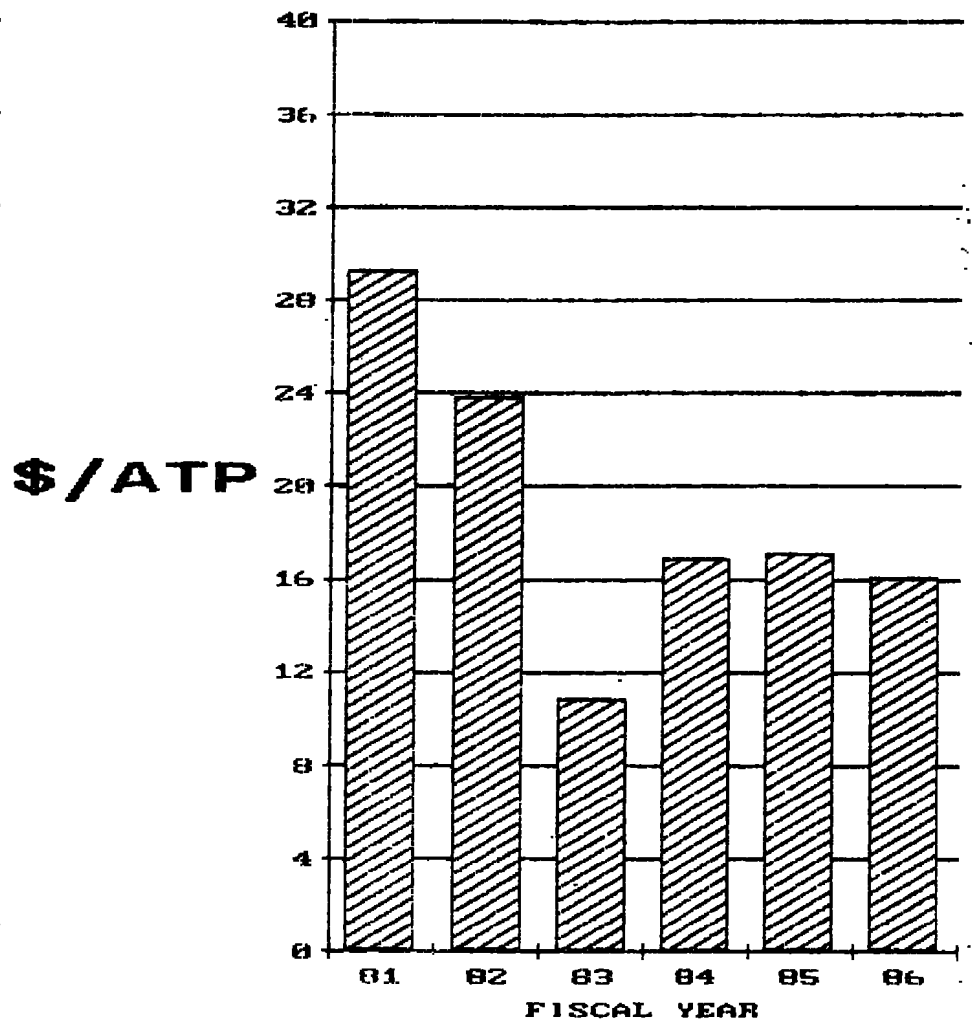


Figure 13. Average Manhour and Electricity Costs .

ACTUAL



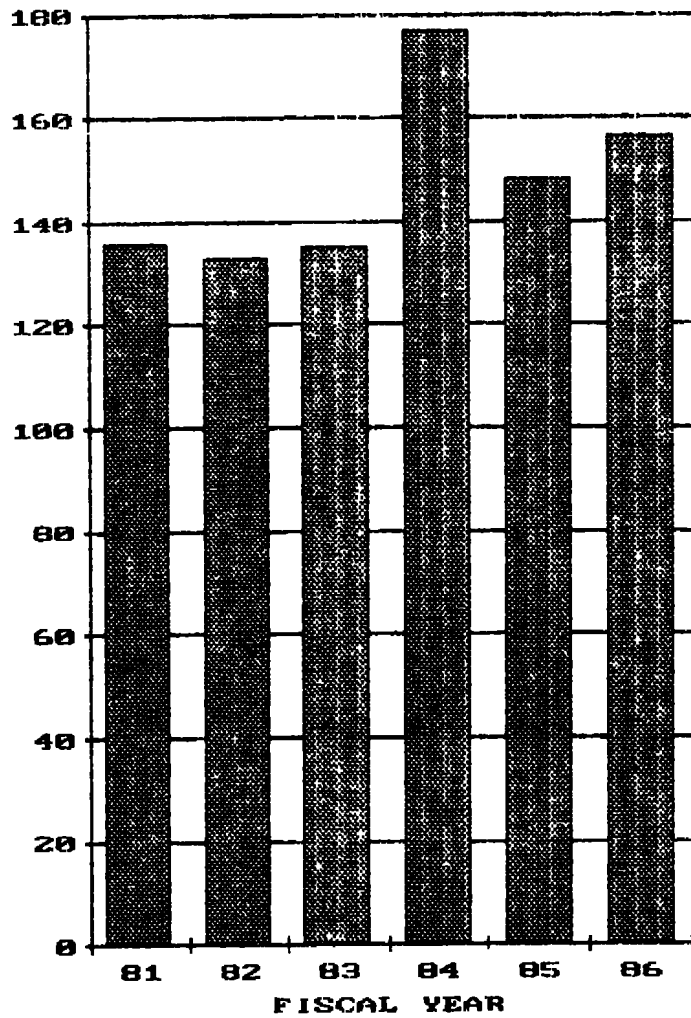
NORMALIZED TO FY81



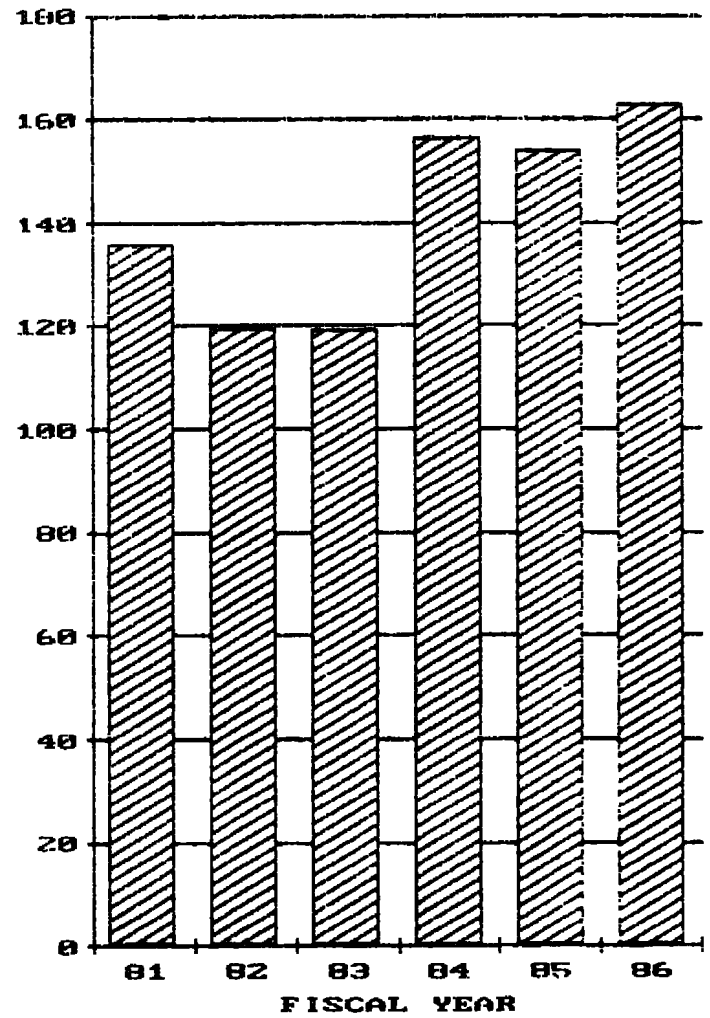
a. 4T

Figure 14. Effects of Labor and Electricity Cost Changes

ACTUAL



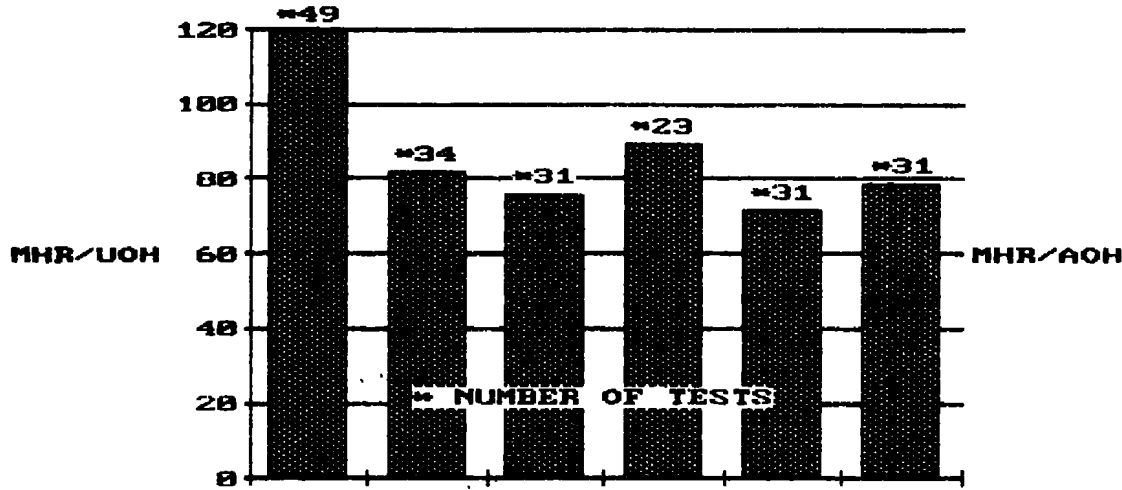
NORMALIZED TO FY81



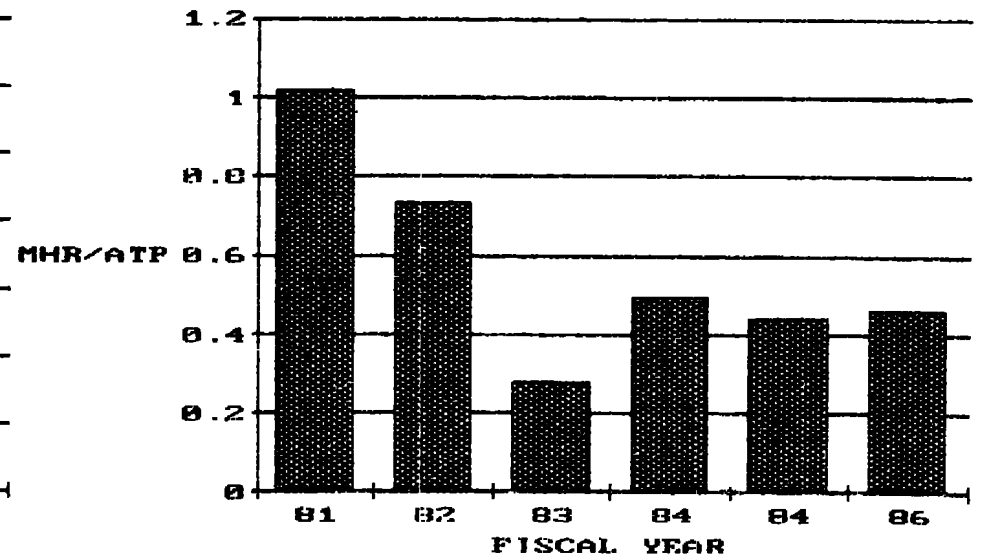
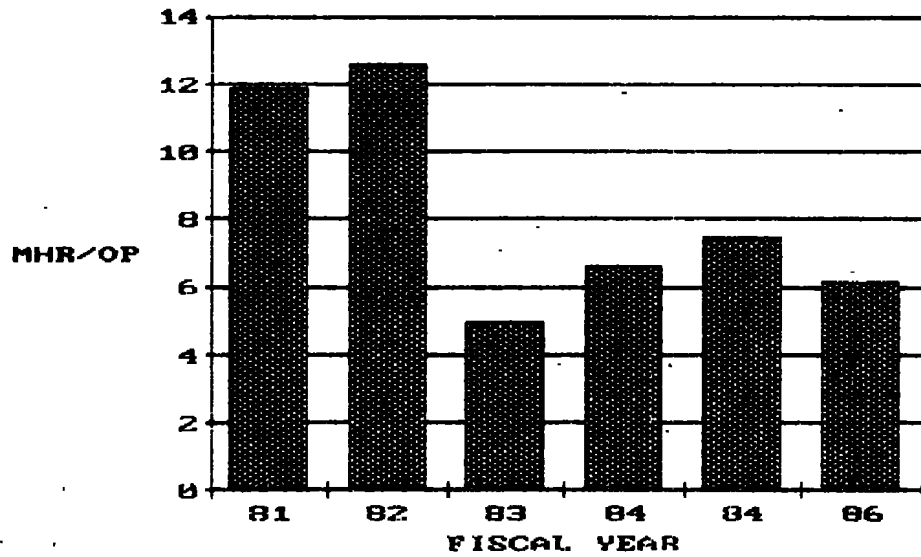
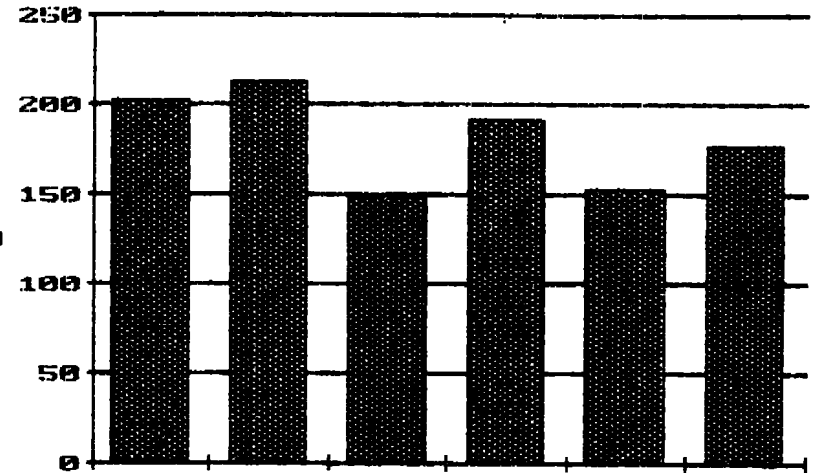
b. 16T

Figure 14. Concluded

ALL TESTS



ALL TESTS

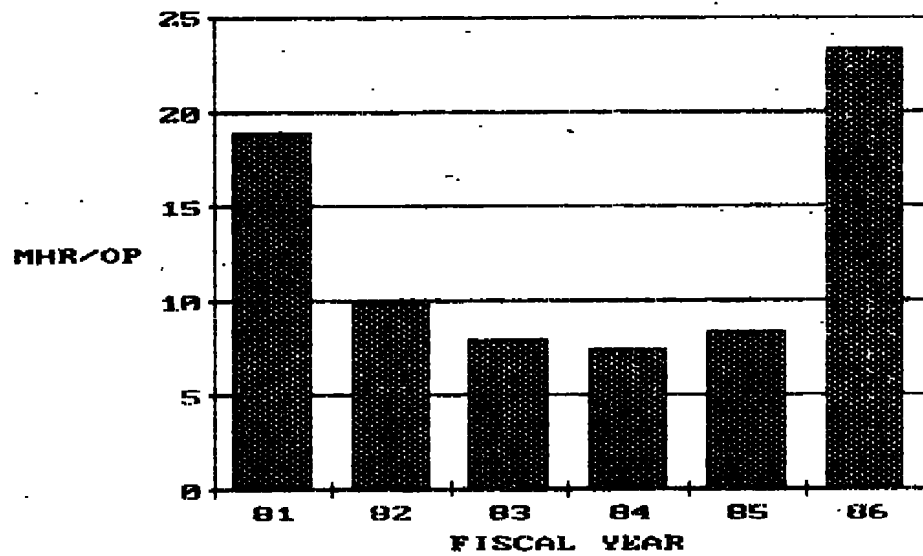
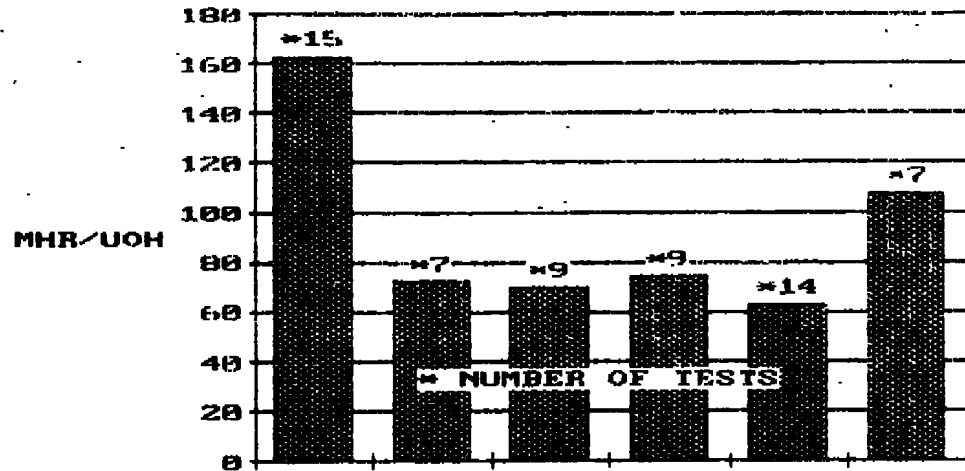


63

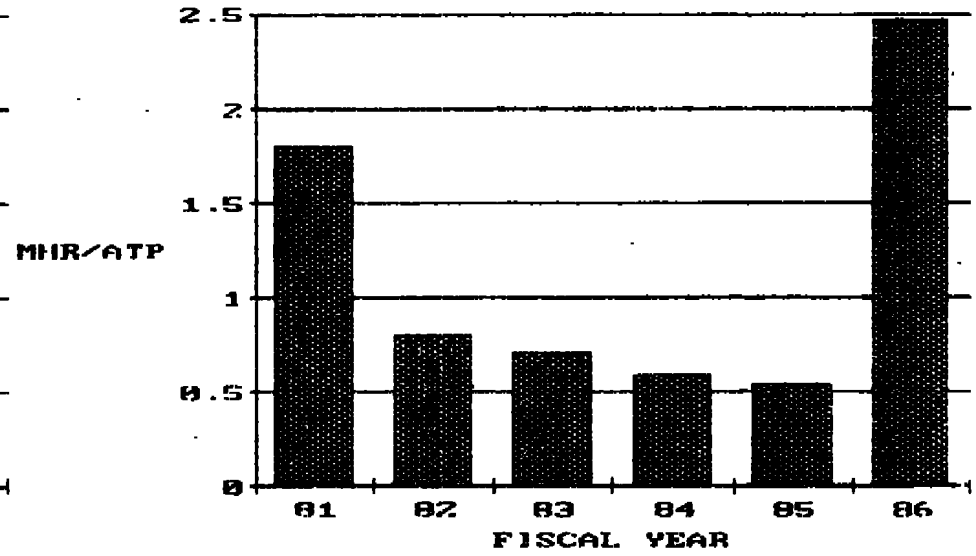
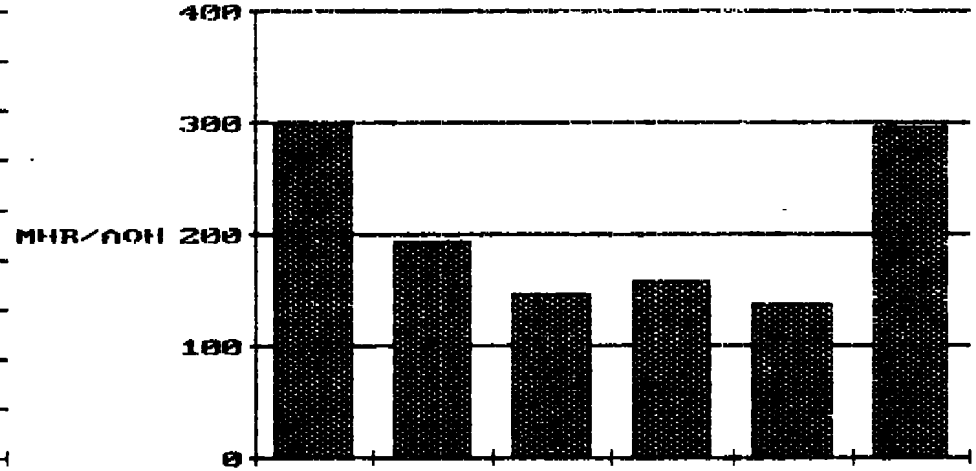
a. All Tests

Figure 15. Manhour Statistics for Tunnel 4T

BALC



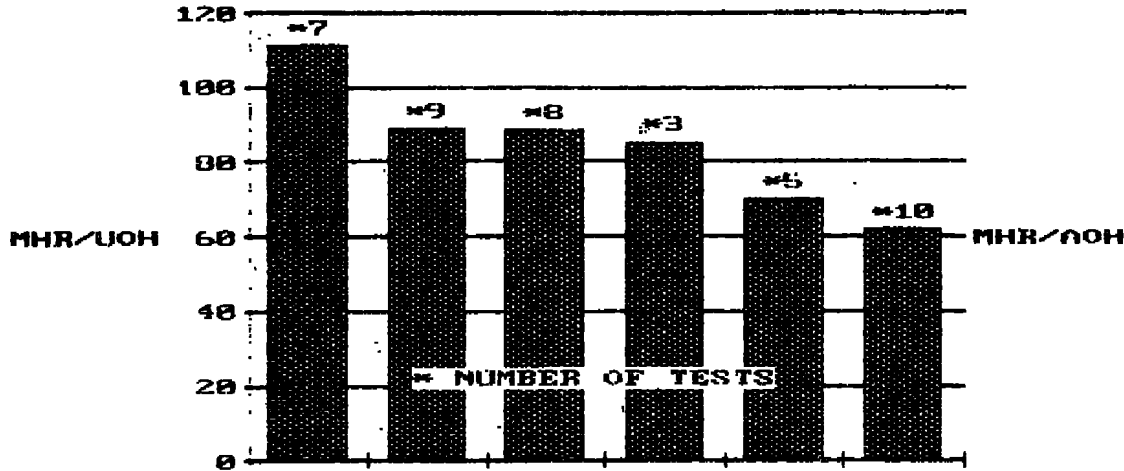
BALC



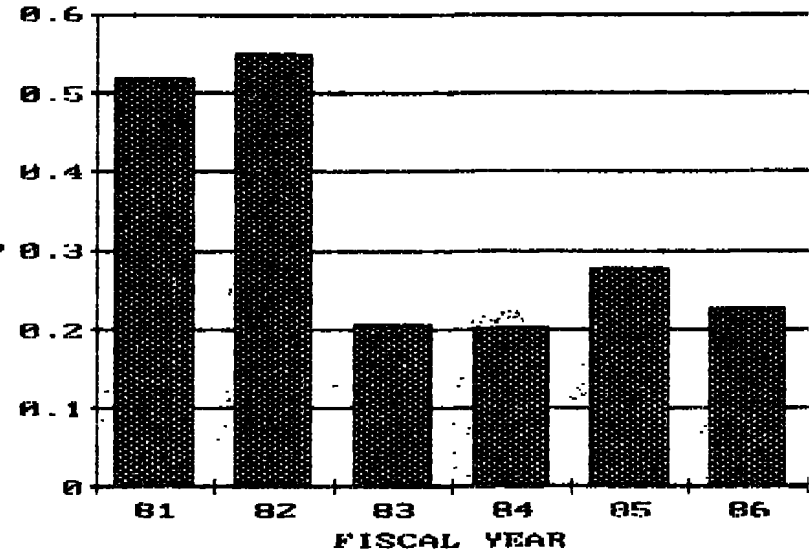
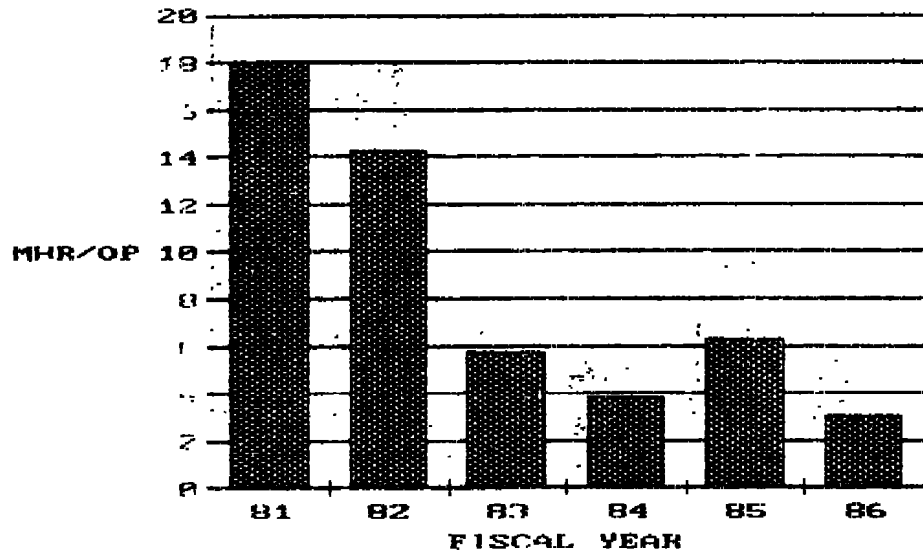
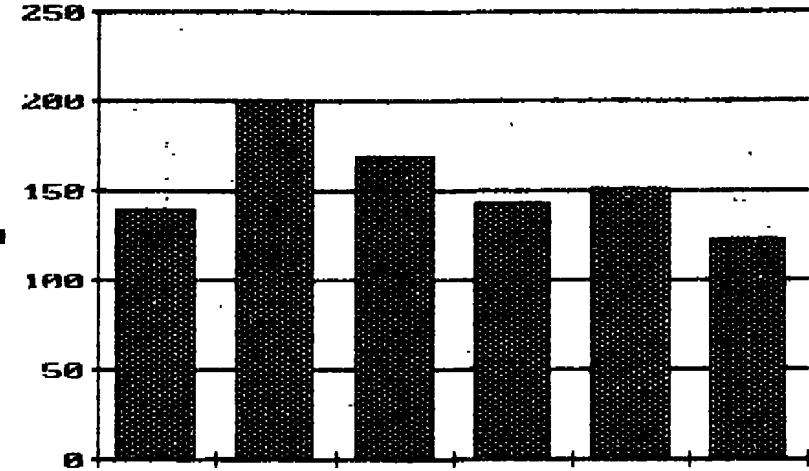
b. BALC
Figure 15. Continued

64

CTSC

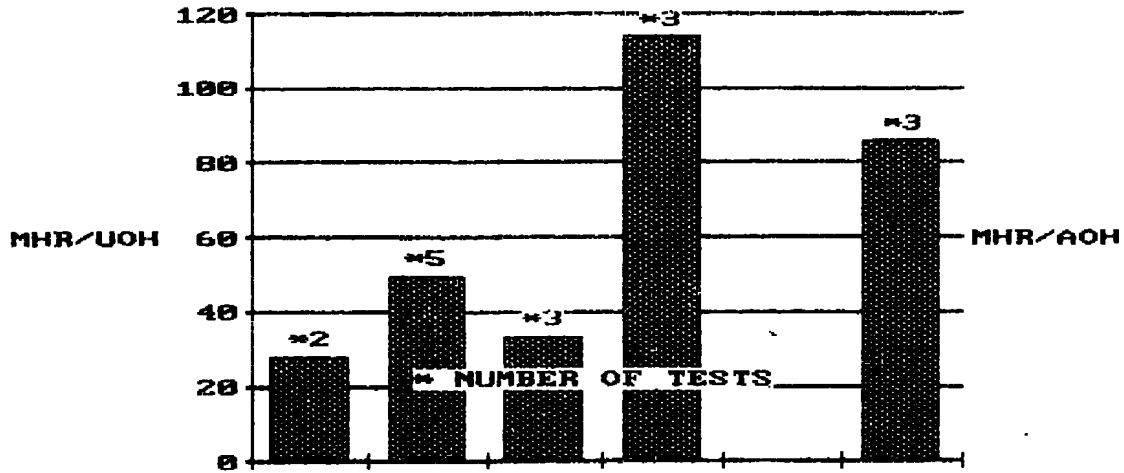


CTSC

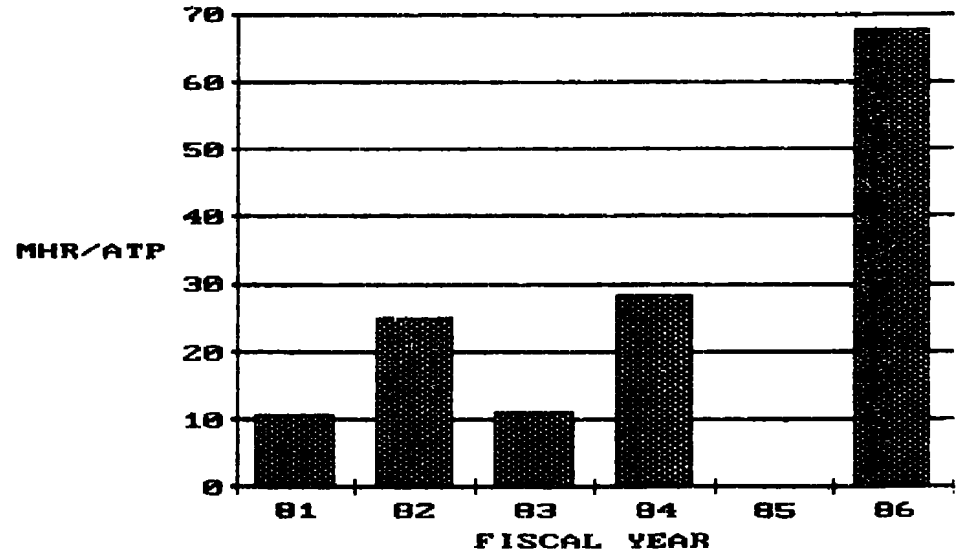
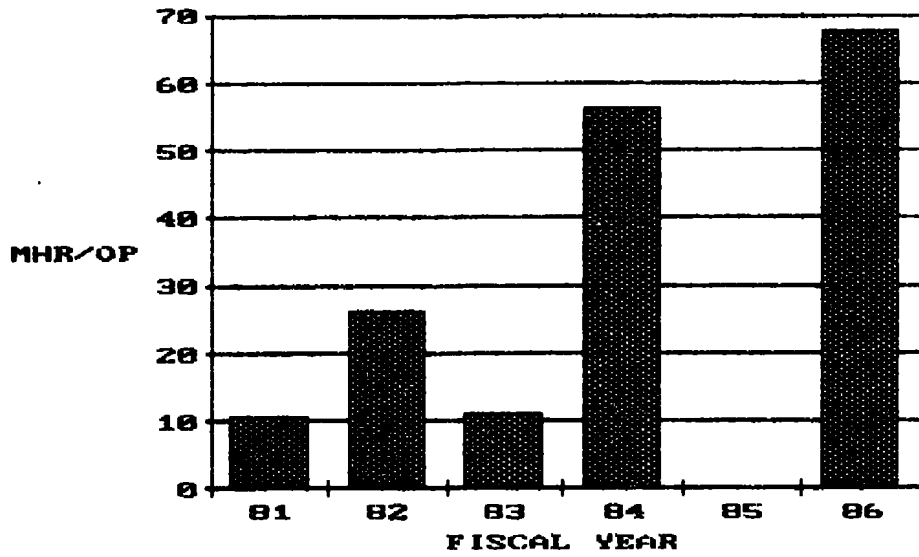
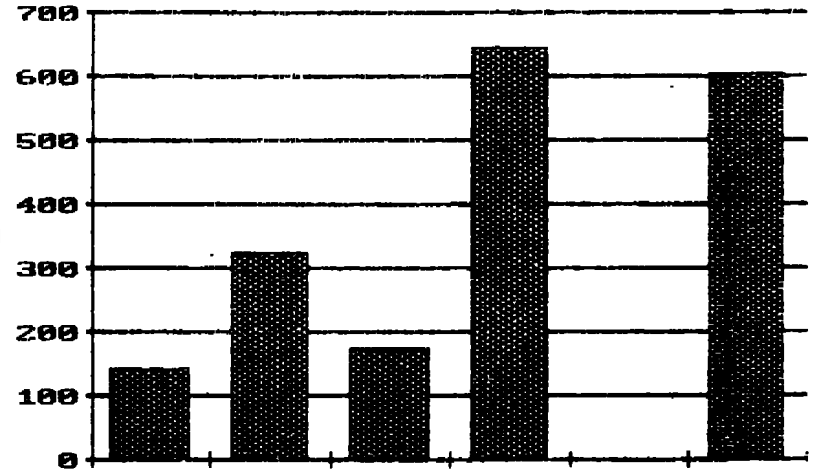


c. CTSC
Figure 15. Continued

DYDC



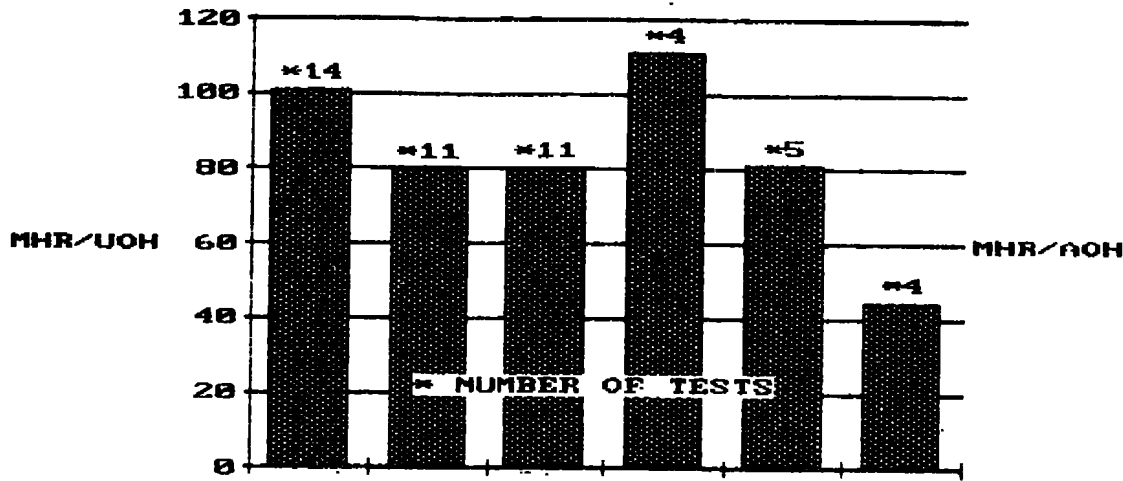
DYDC



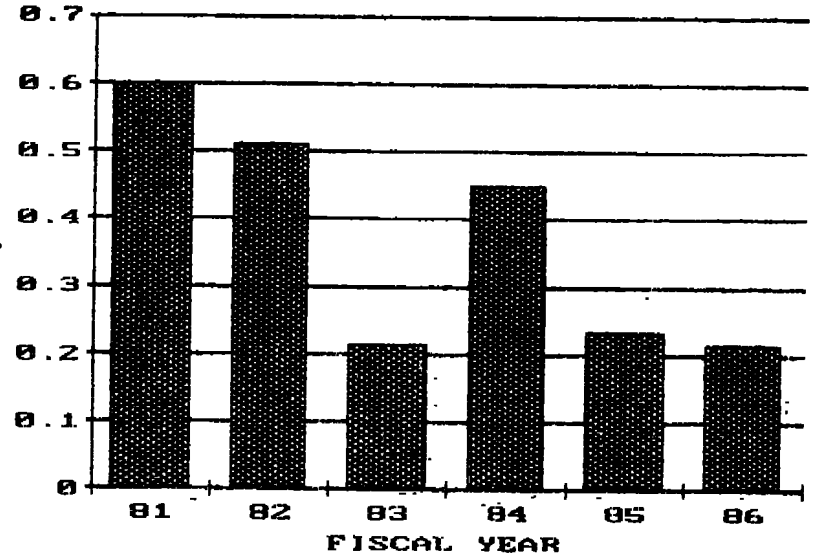
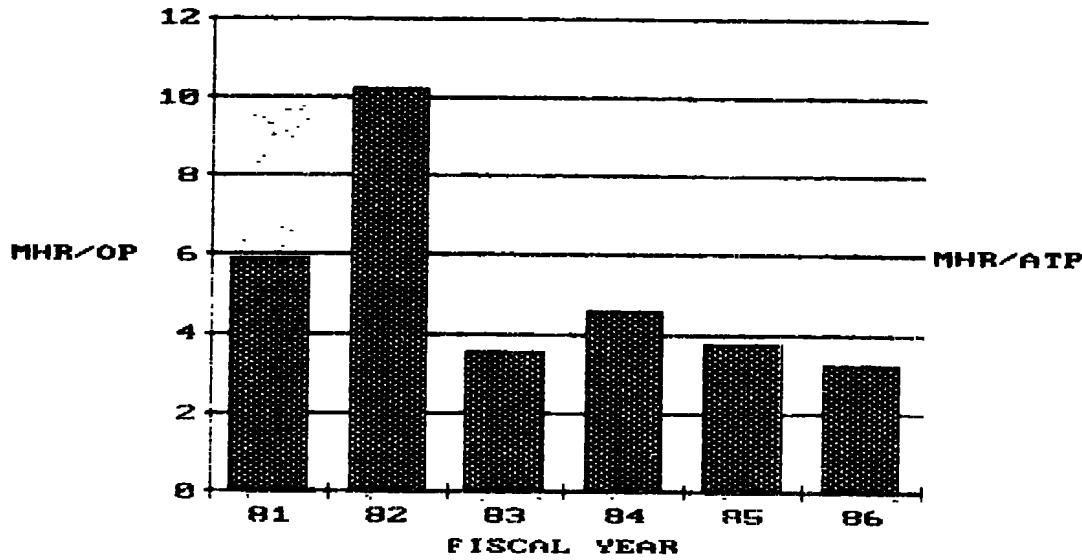
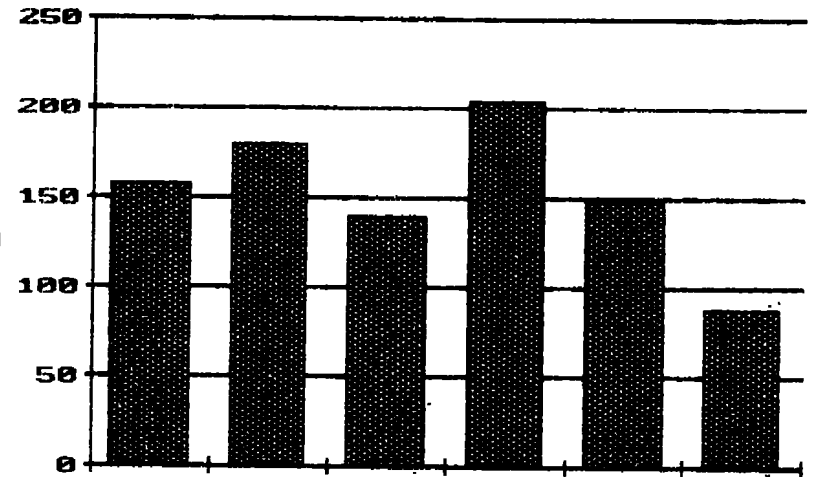
d. DYDC

Figure 15. Continued

GRDC



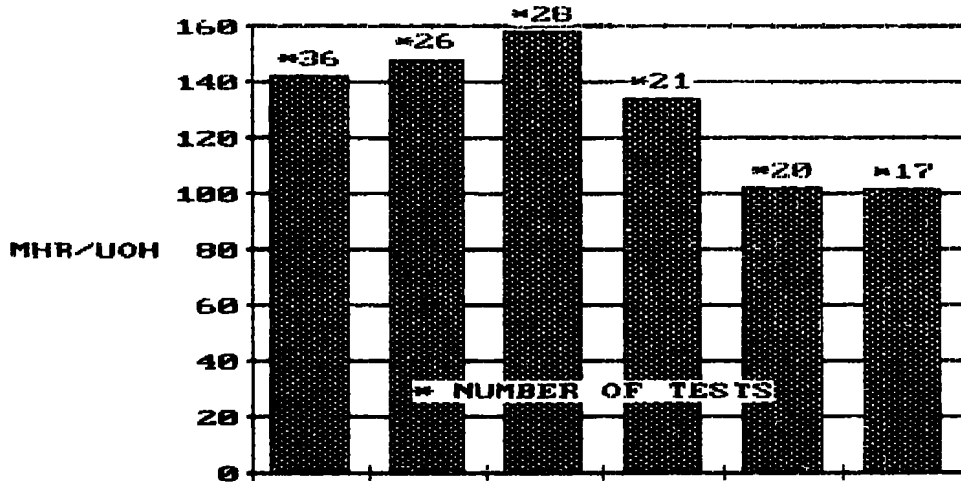
GRDC



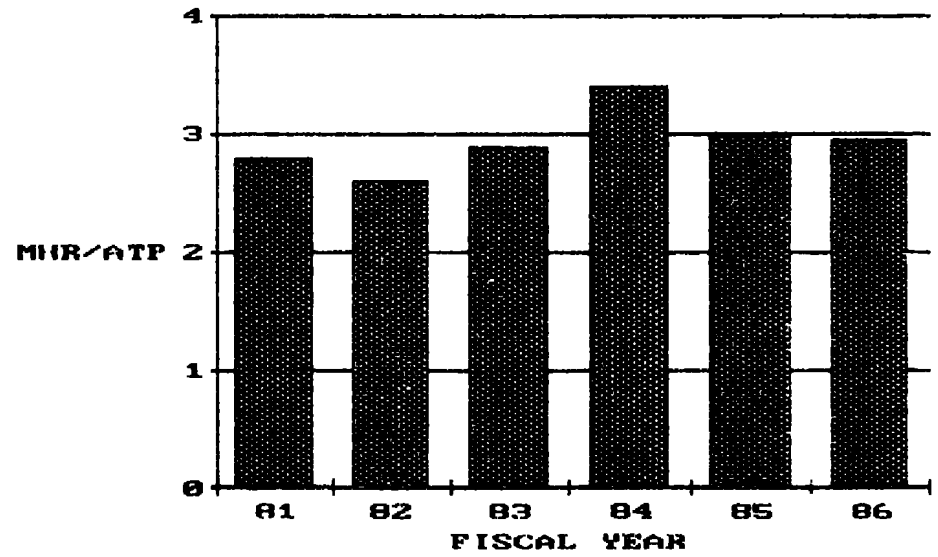
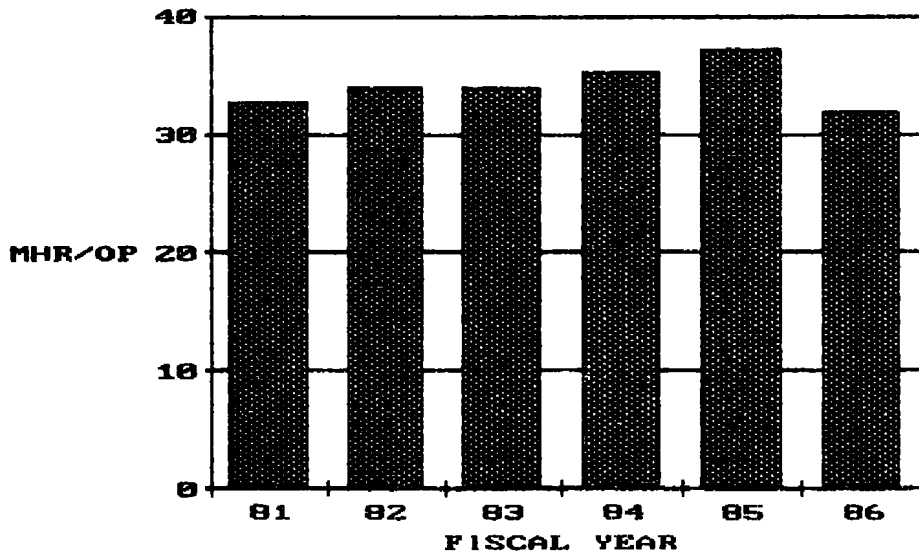
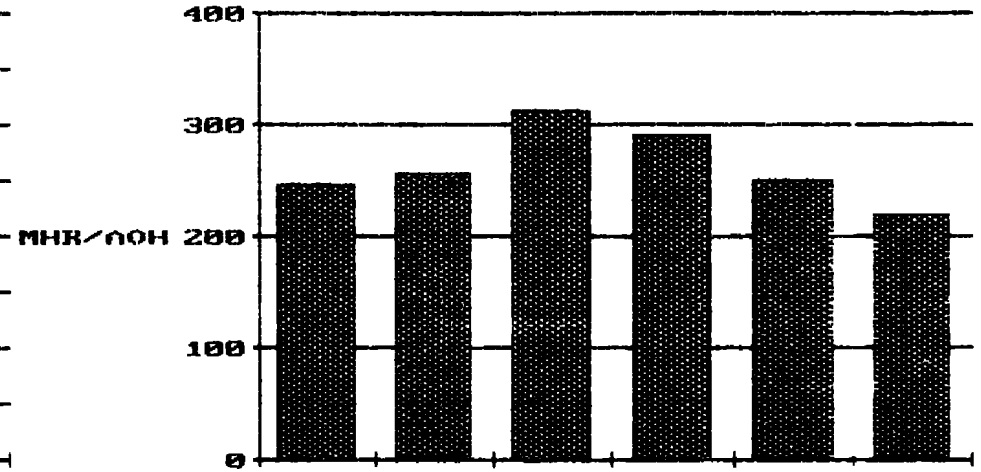
67

e. GRDC
Figure 15. Concluded

ALL TESTS



ALL TESTS

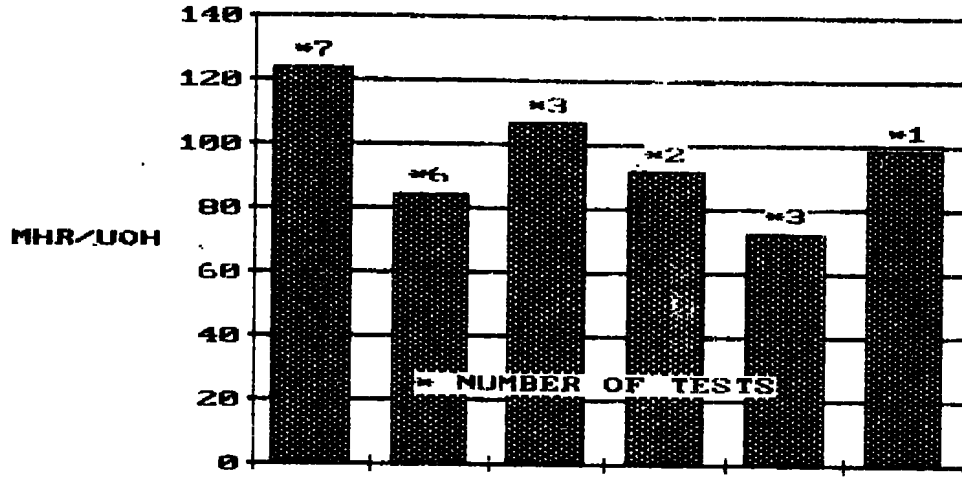


a. All Tests

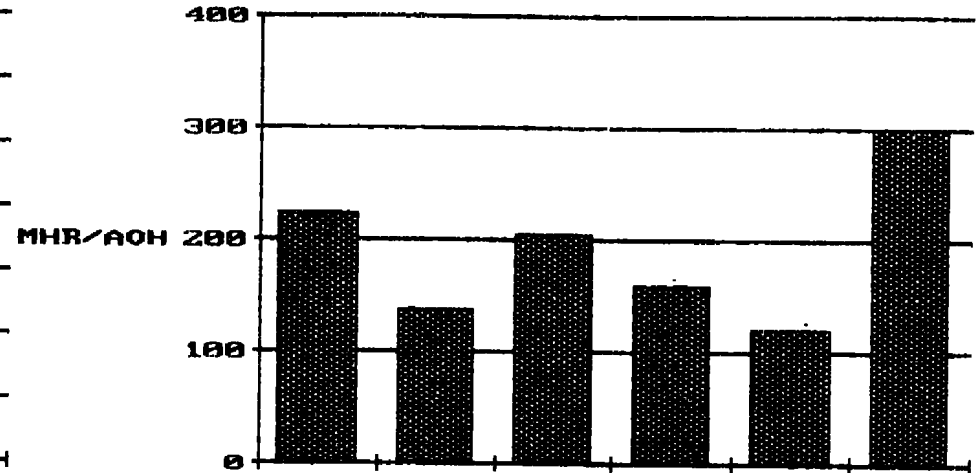
Figure 16. Manhour Statistics for Tunnel 16T

89

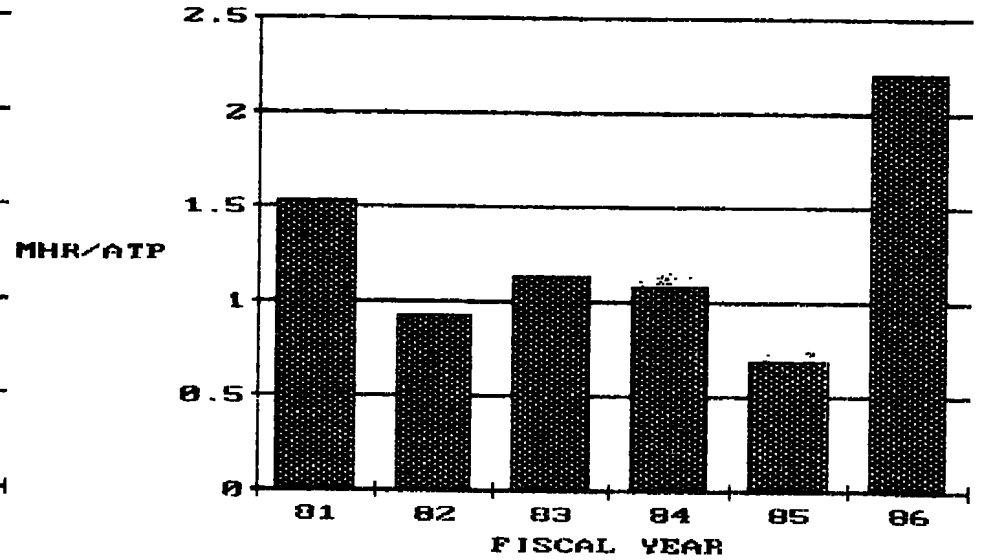
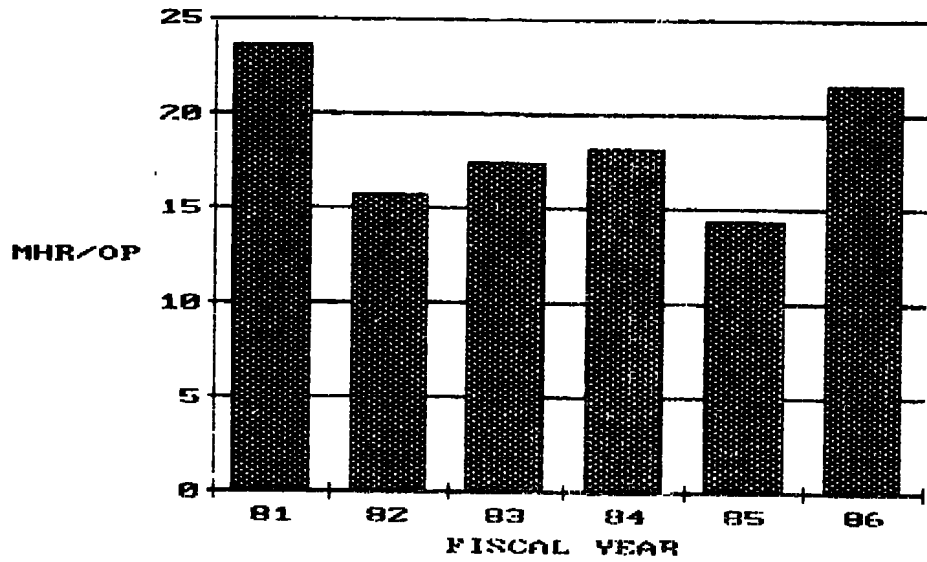
BALT



BALT

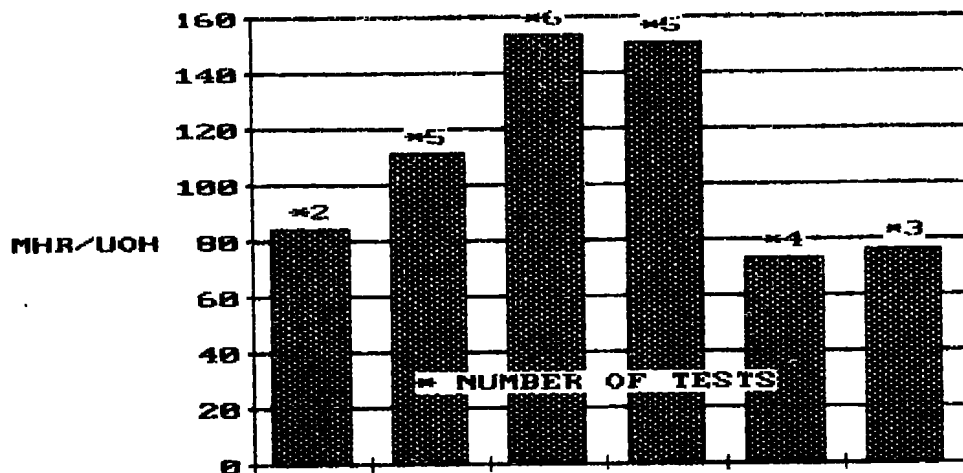


69

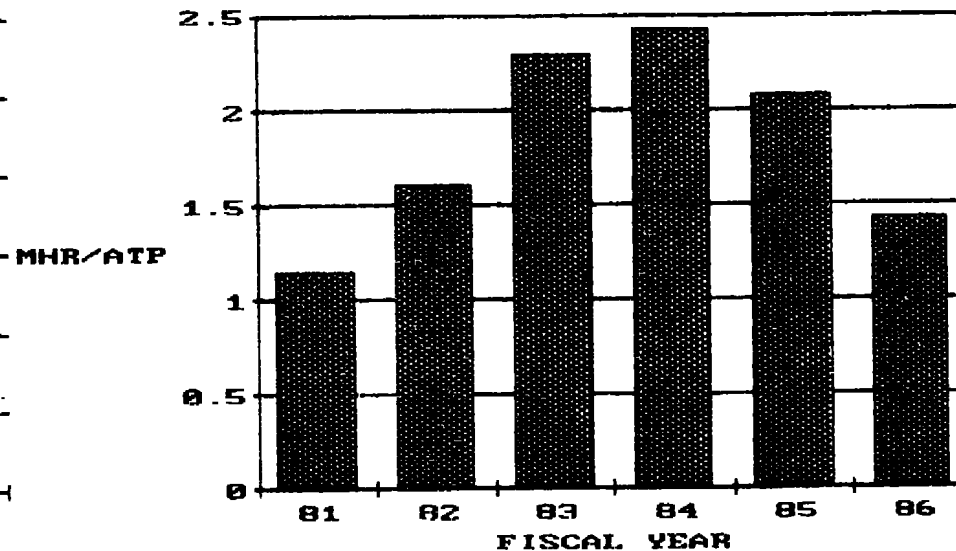
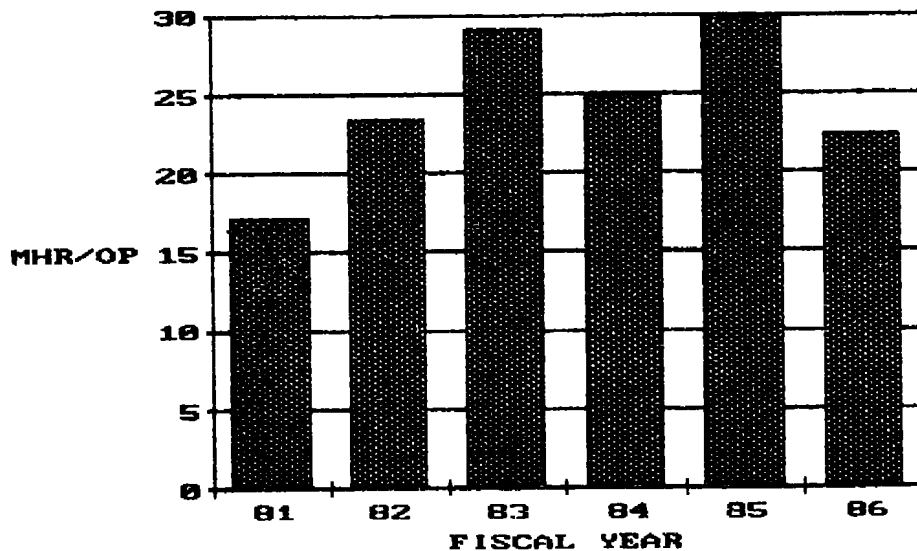
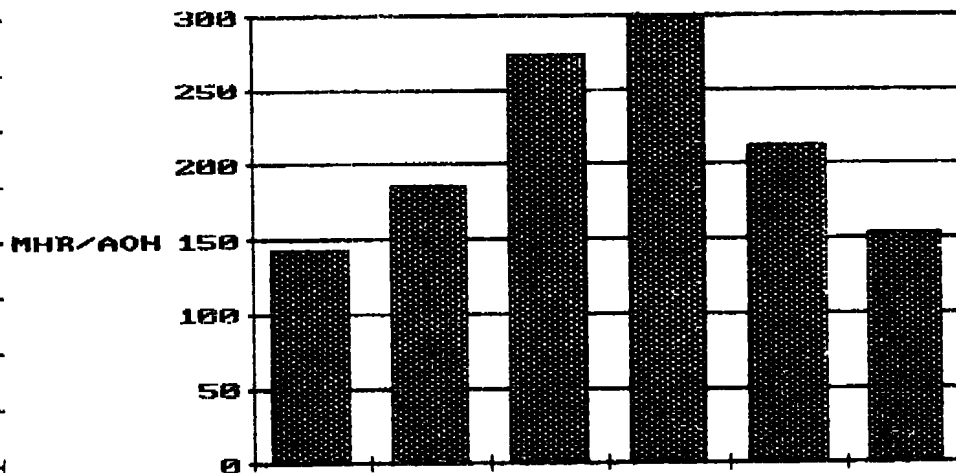


b. BALT
Figure 16. Continued

BAPT



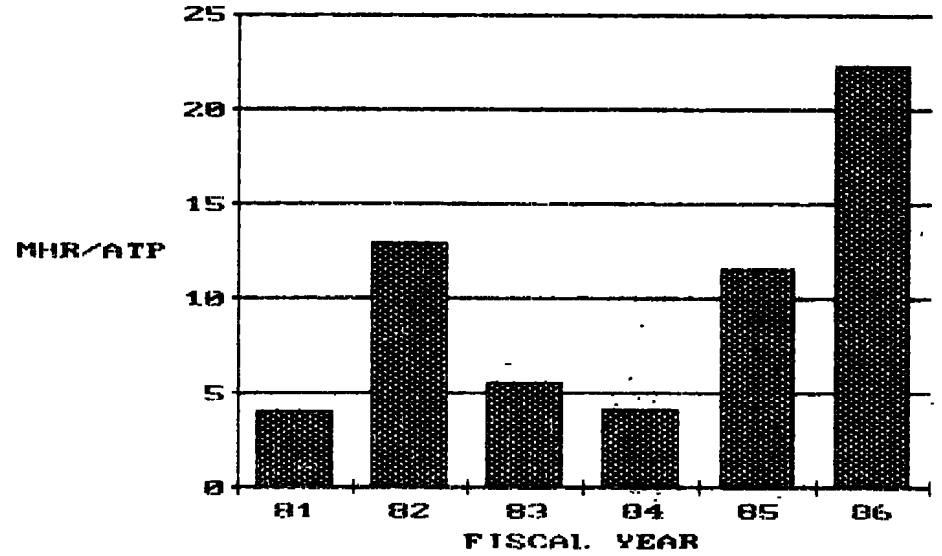
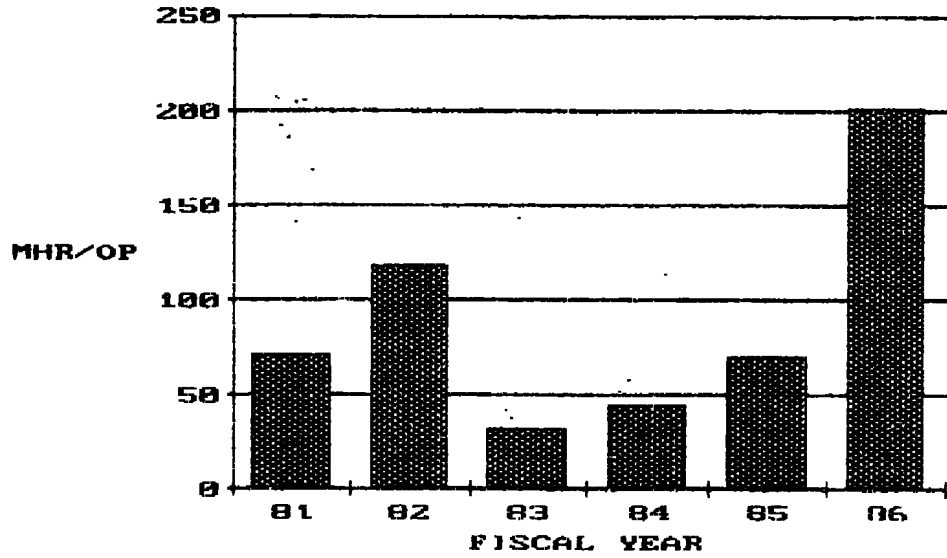
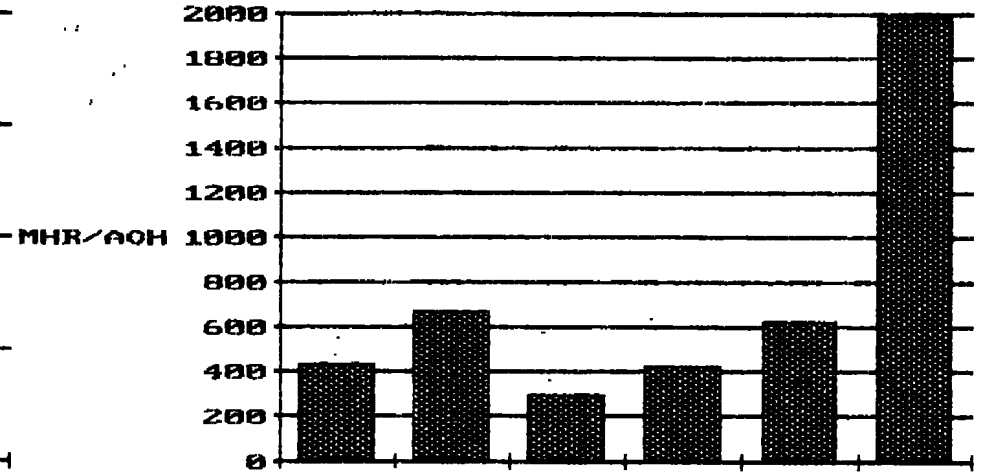
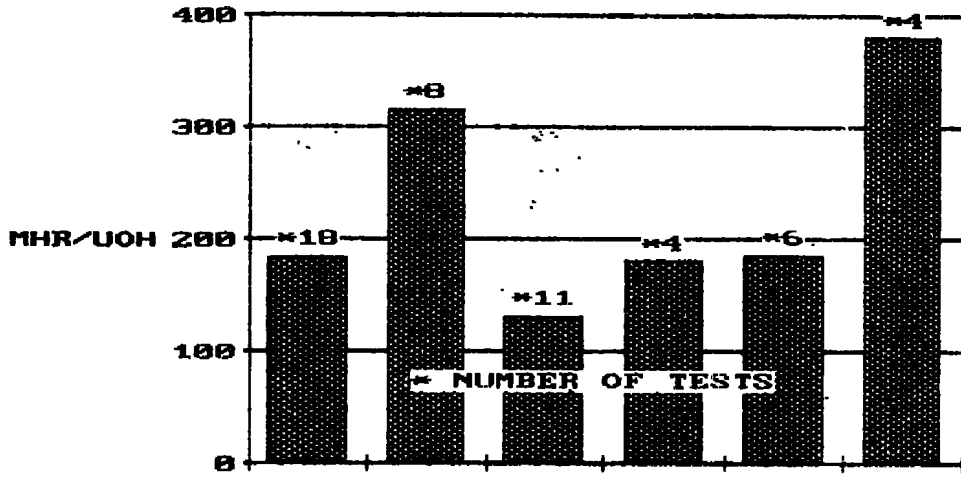
BAPT



c. BAPT

Figure 16. Continued

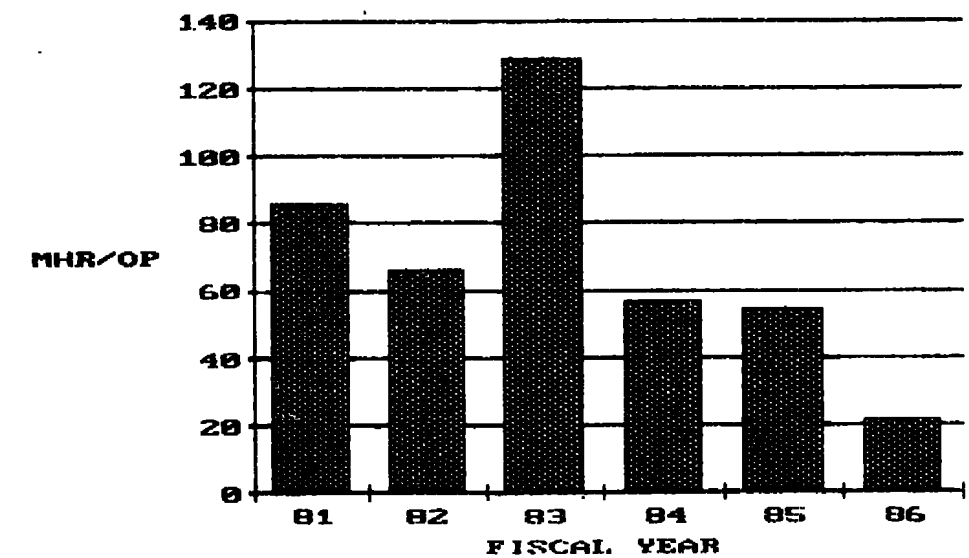
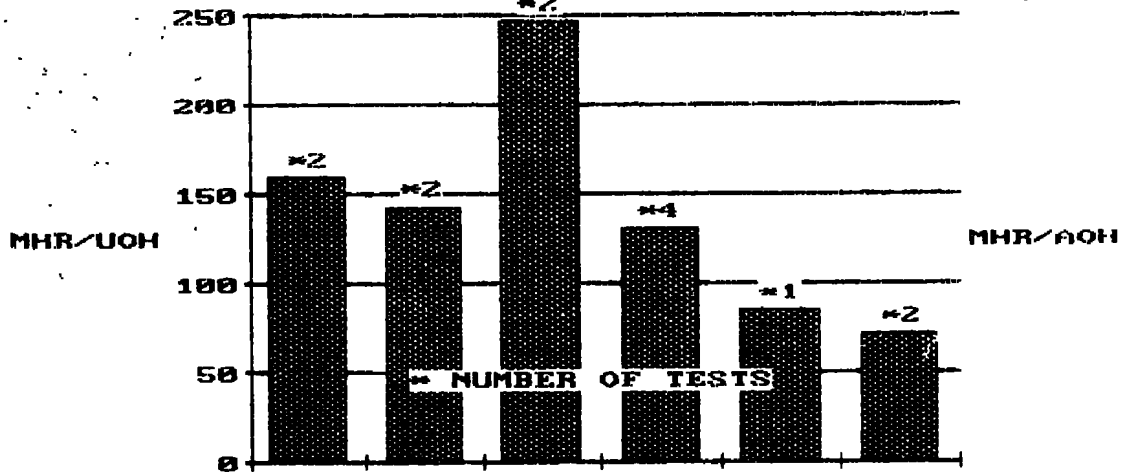
MIST



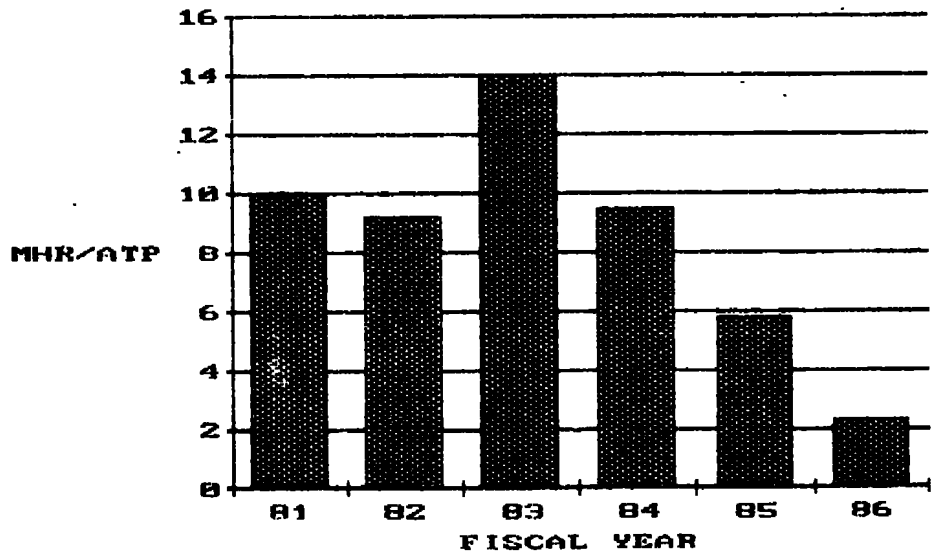
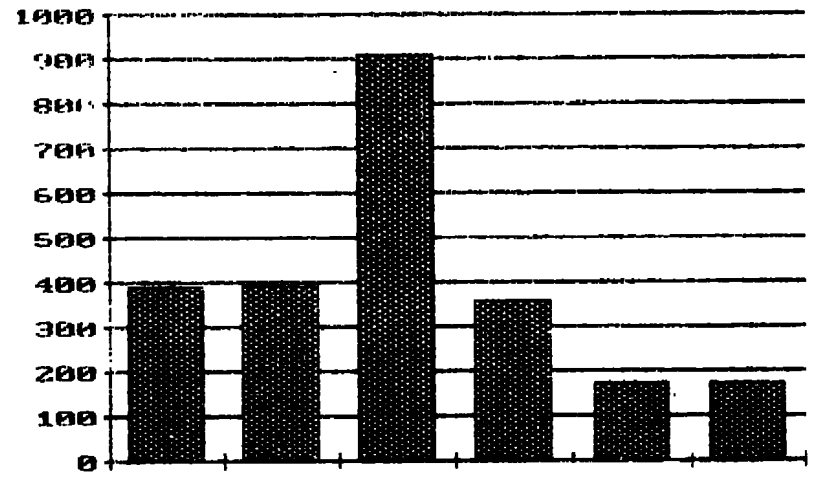
71

d. MIST
Figure 16. Continued

NABT



NABT

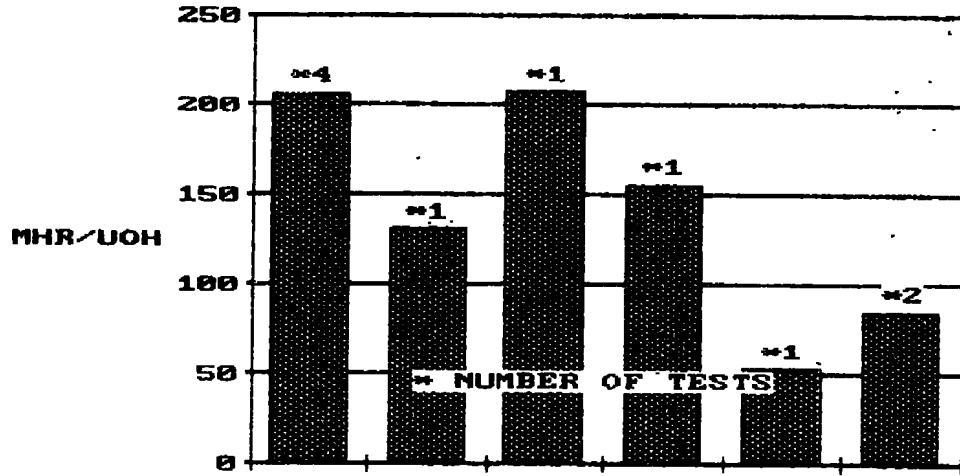


e. NABT

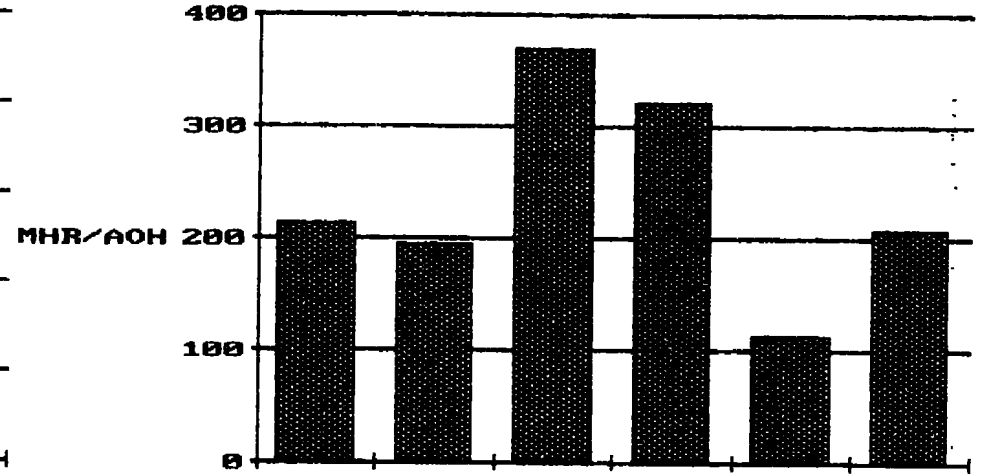
Figure 16. Continued

72

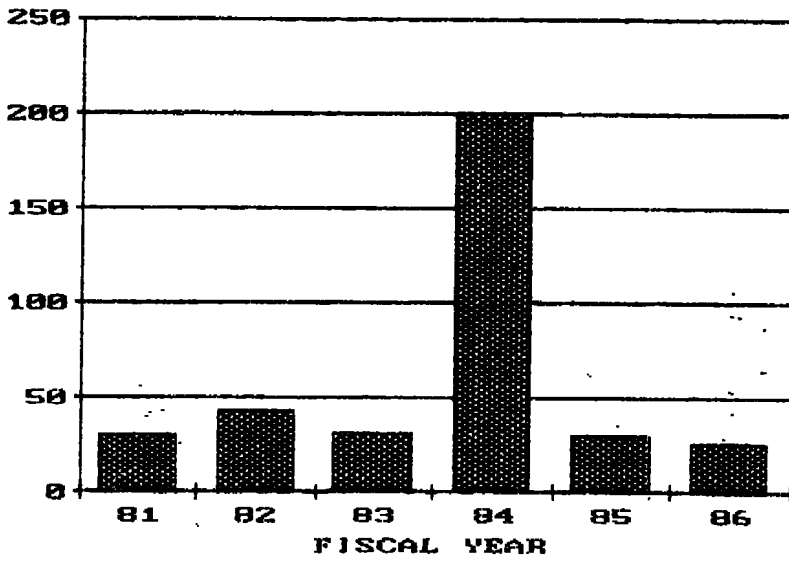
PRST



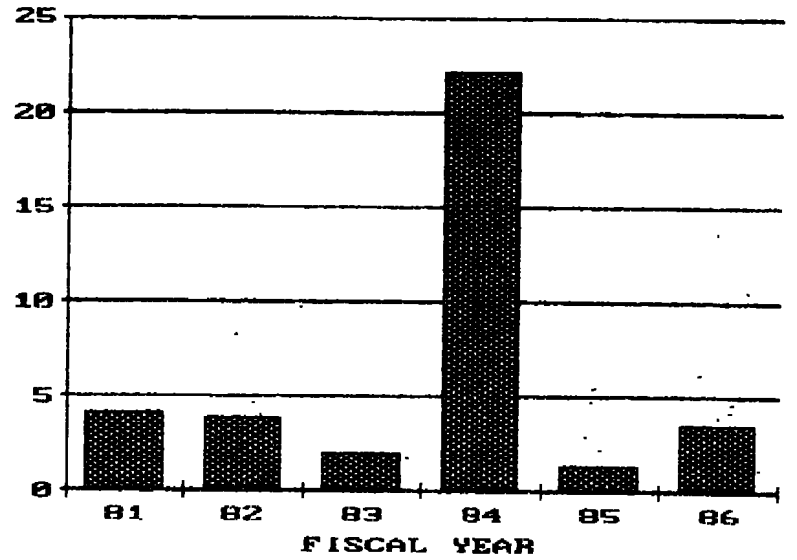
PRST



MHR/OP



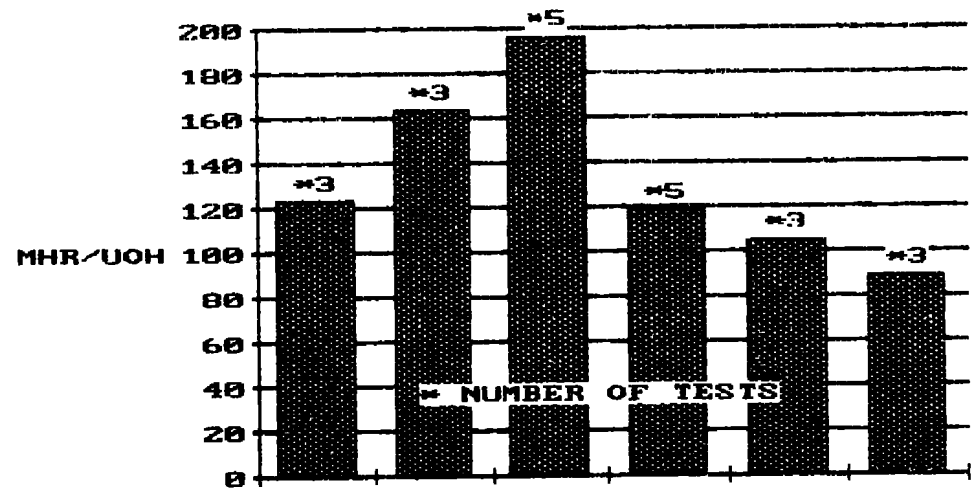
MHR/ATP



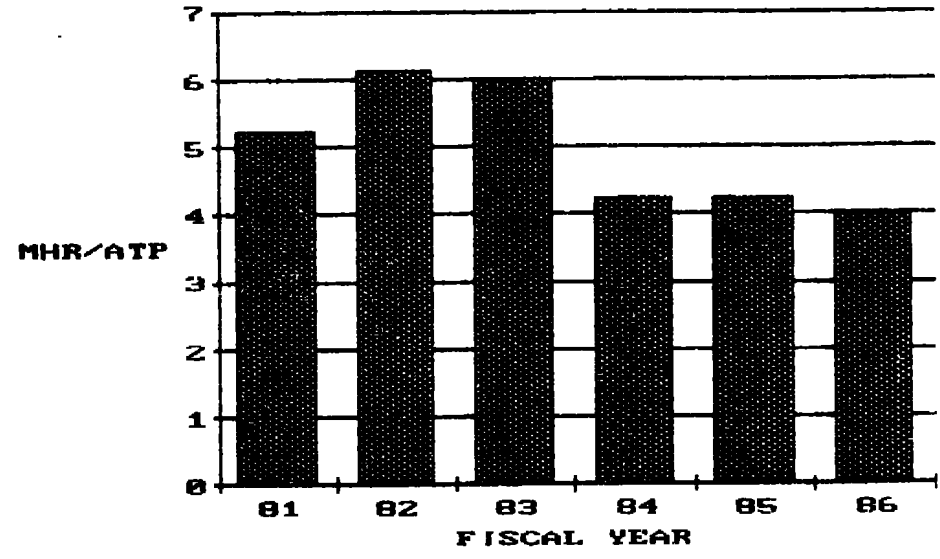
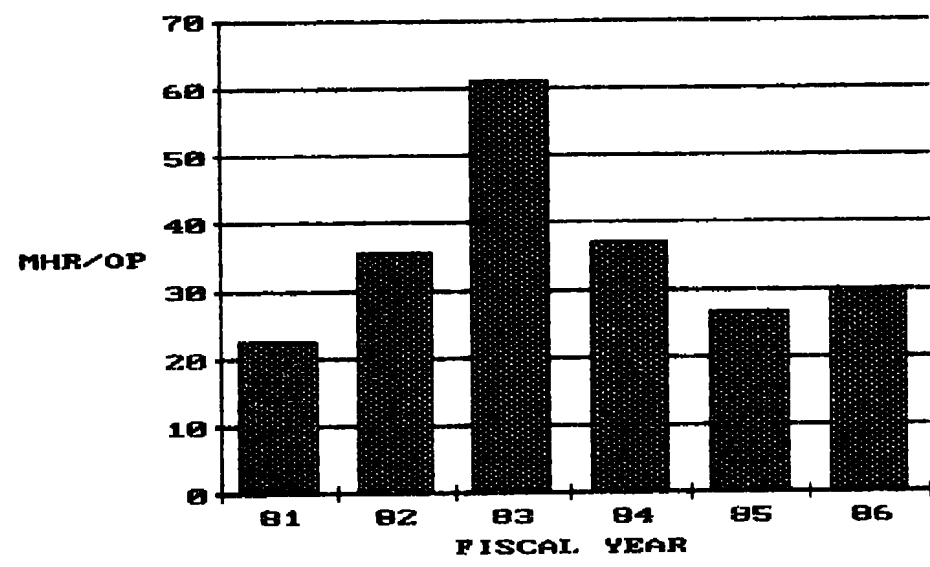
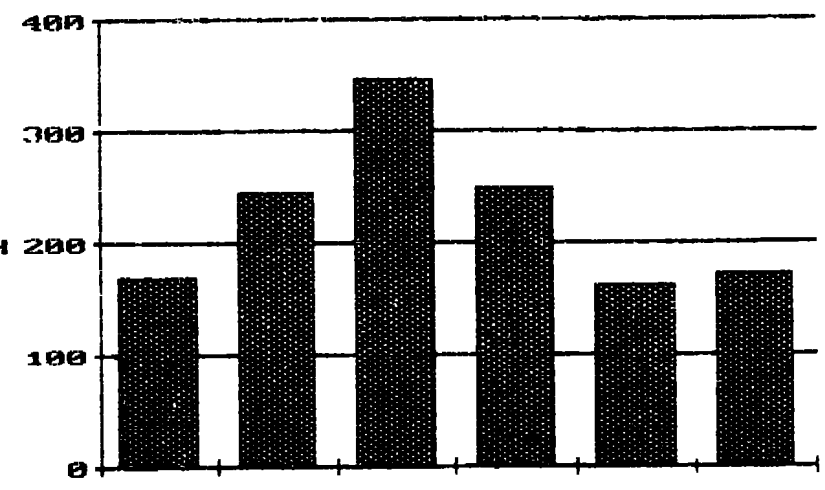
f. PRST
Figure 16. Continued

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SIPT

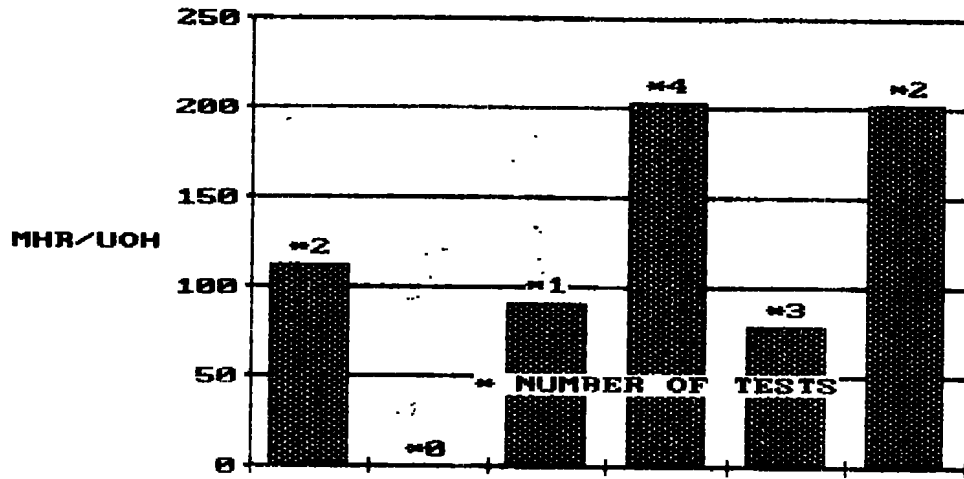


SIPT



g. SIPT
Figure 16. Concluded

ALL TESTS



ALL TESTS

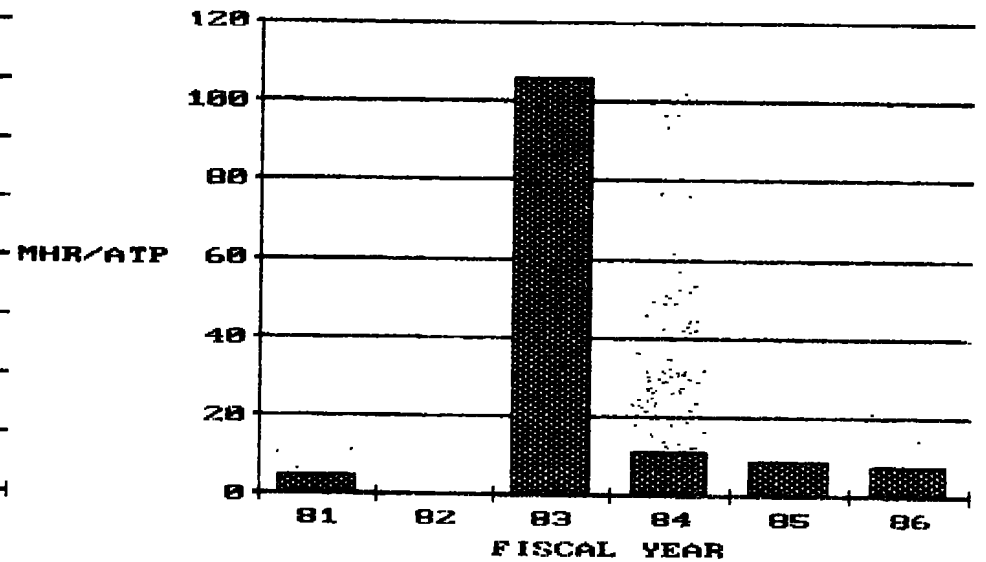
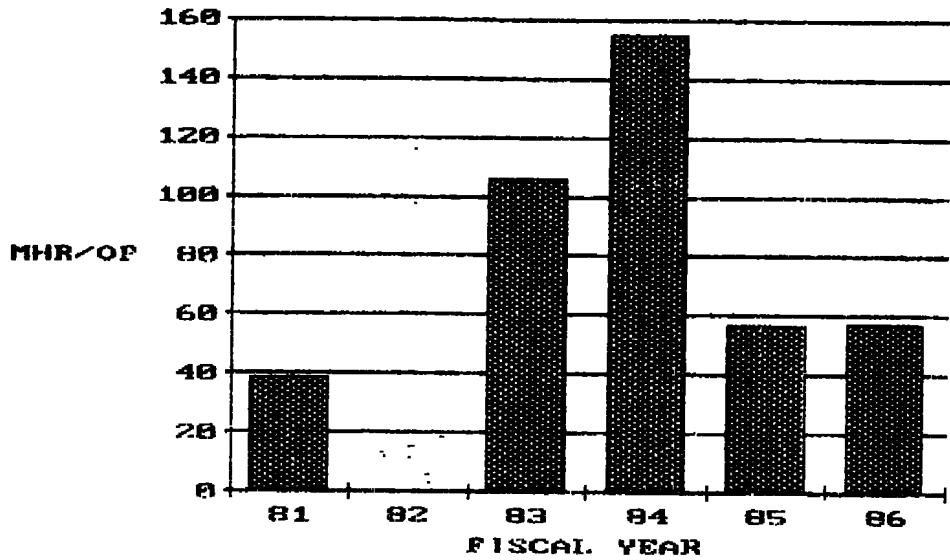
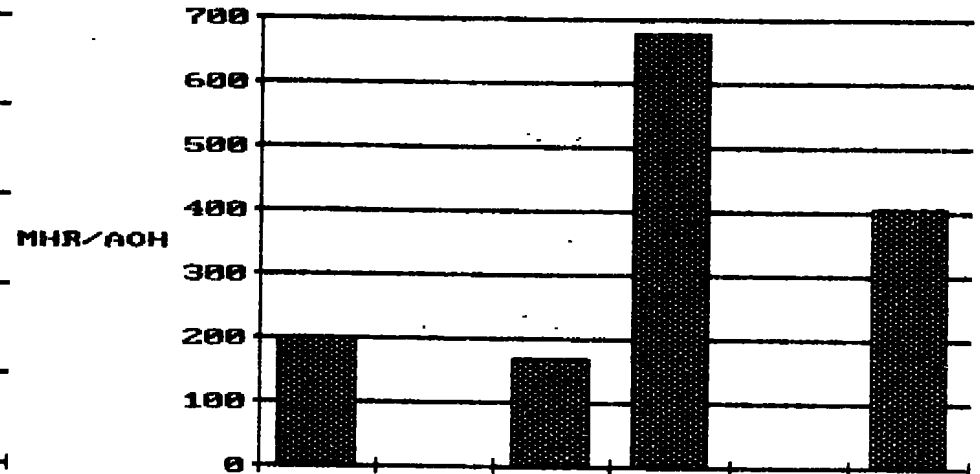
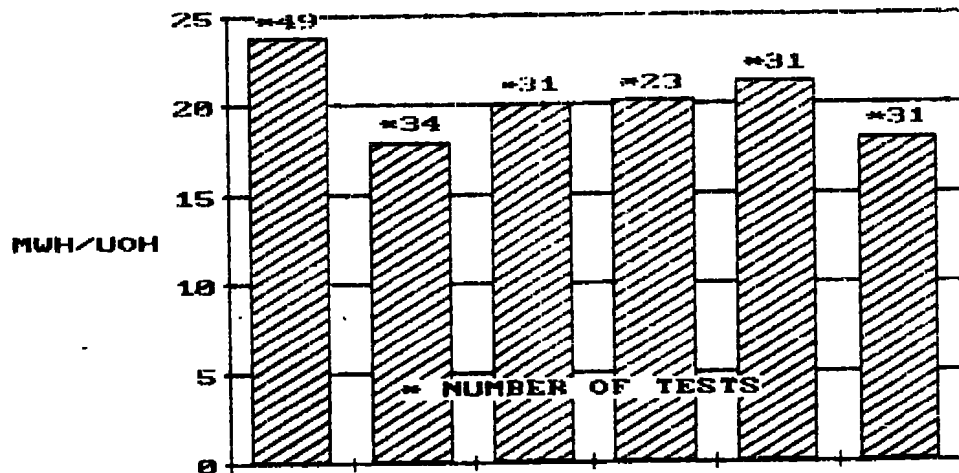
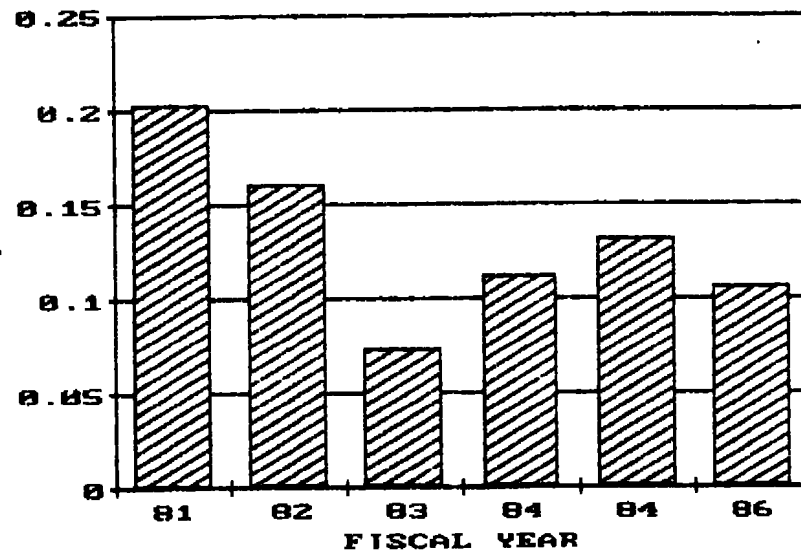
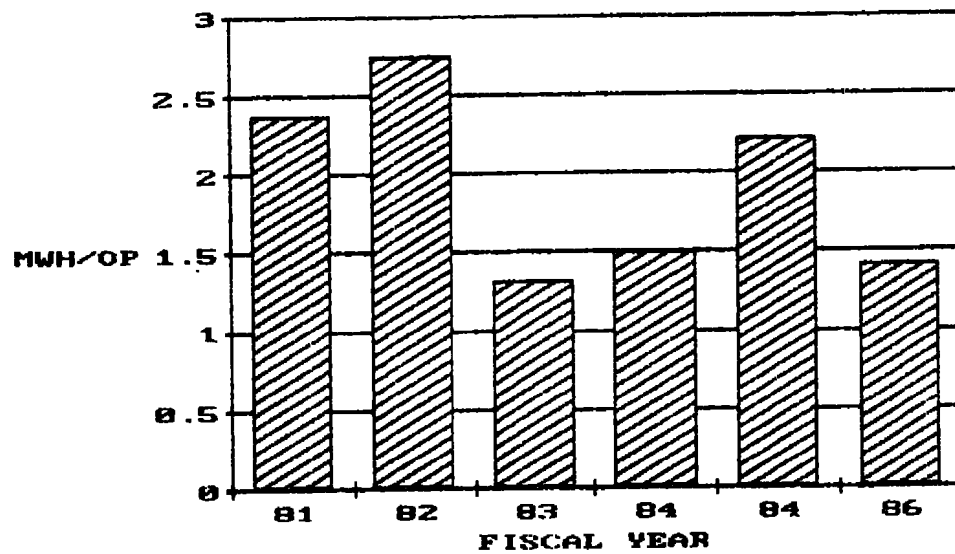
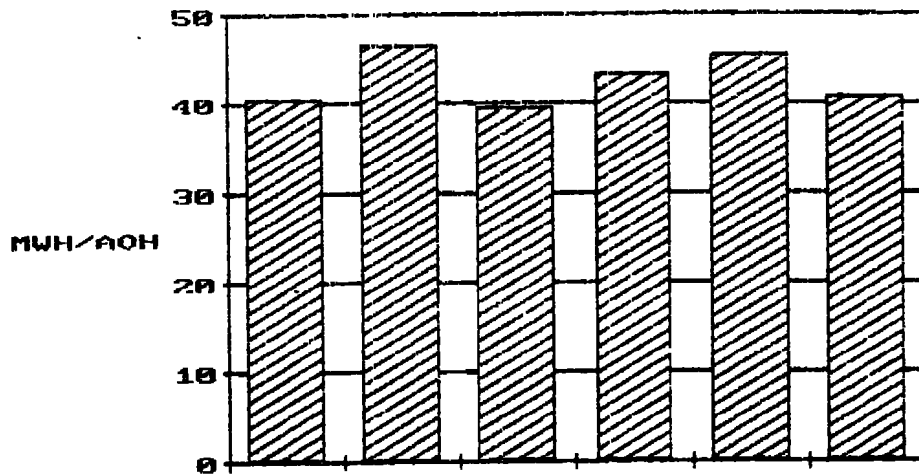


Figure 17. Manhour Statistics for Tunnel 16S (All Tests)

ALL TESTS



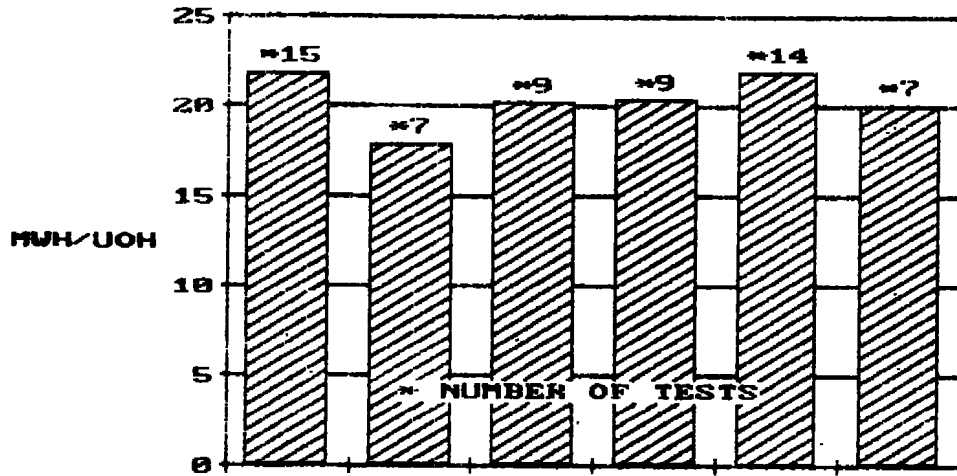
ALL TESTS



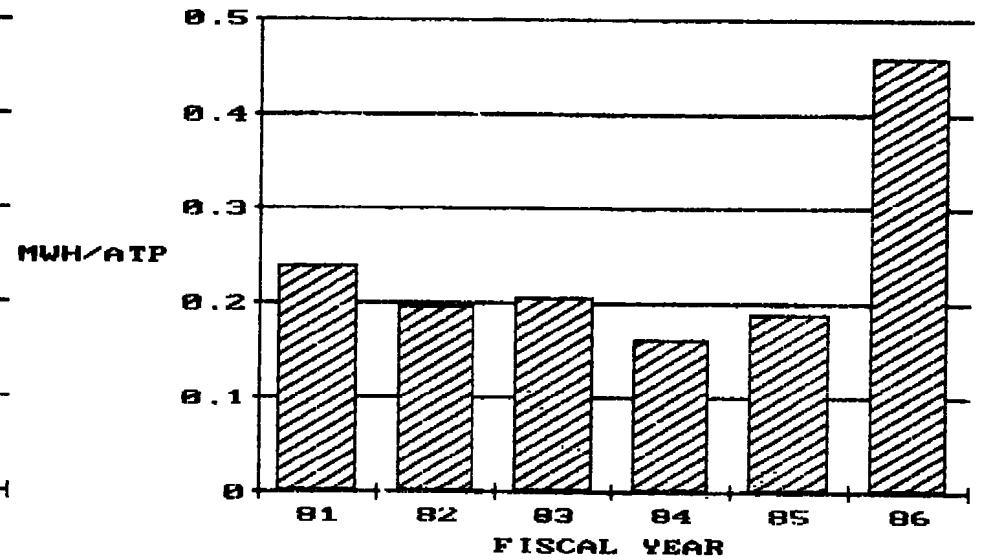
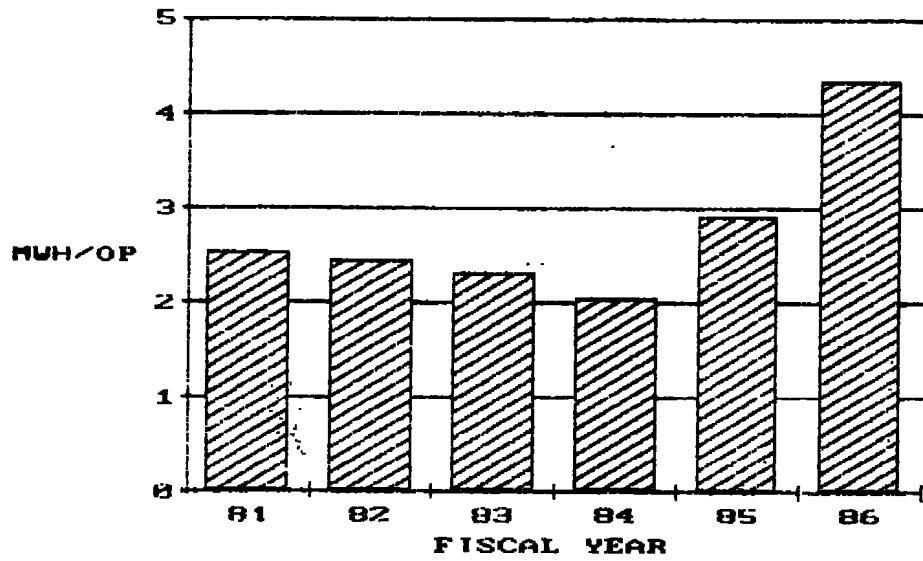
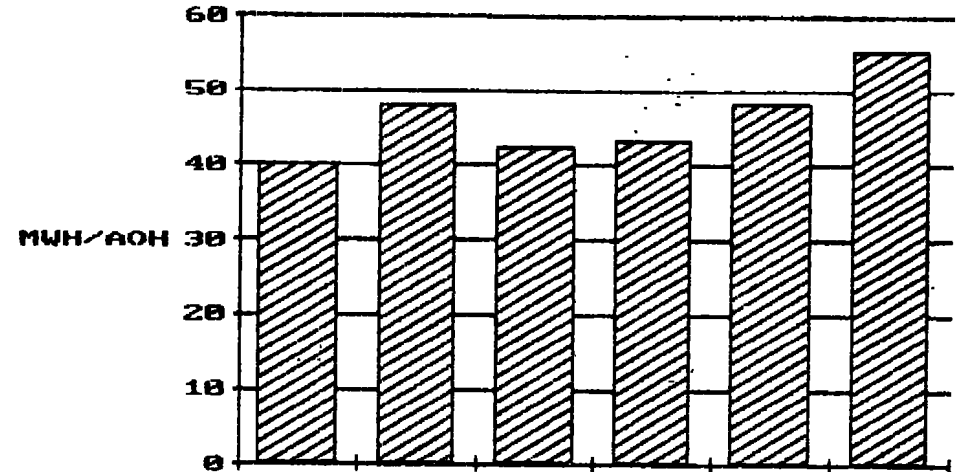
a. All Tests

Figure 18. Electricity Statistics for Tunnel 4T

BALC



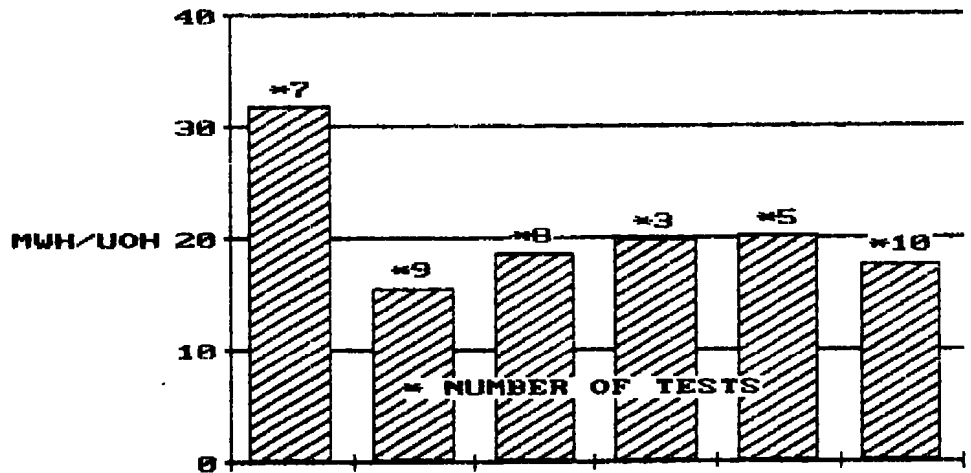
BALC



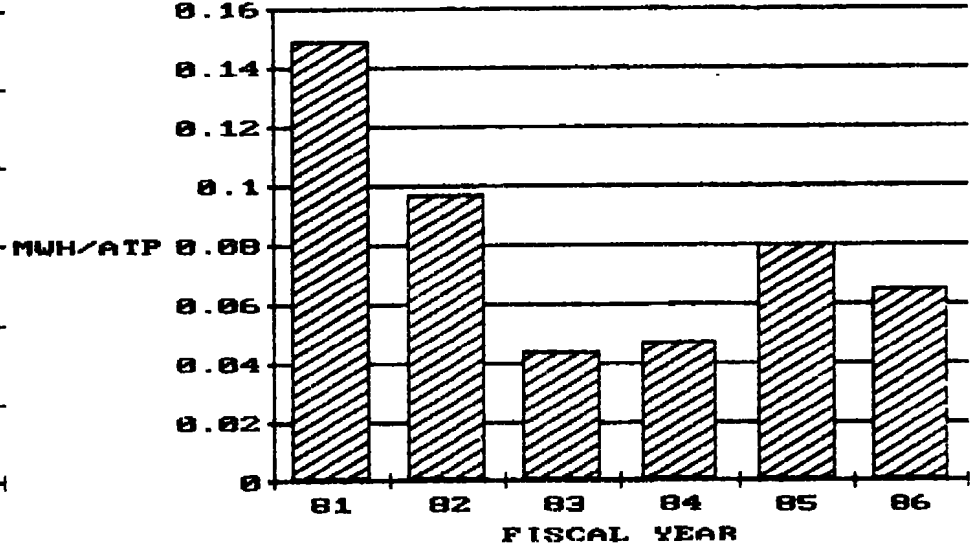
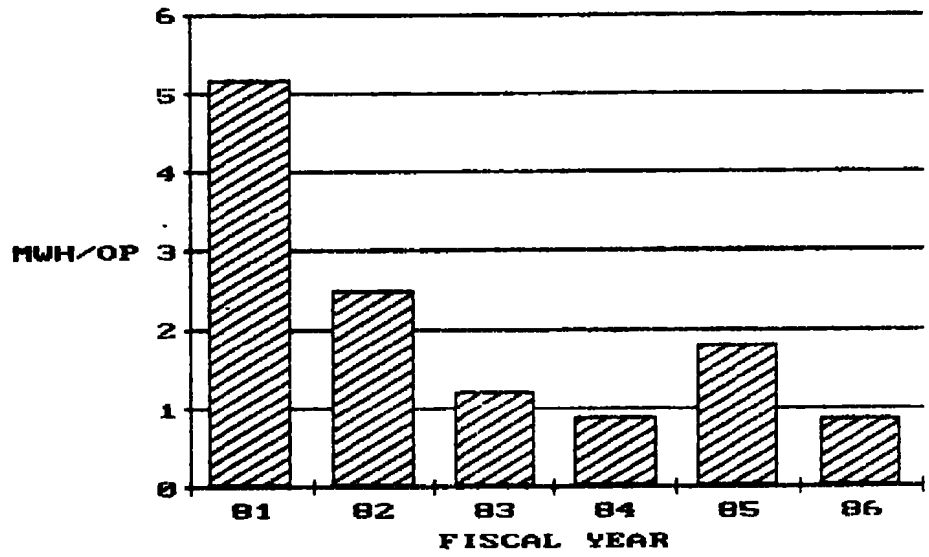
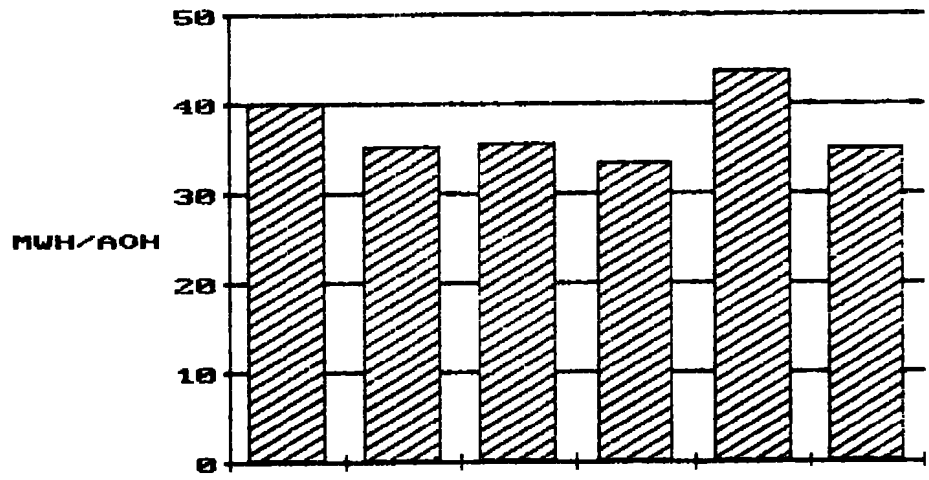
77

b. BALC
Figure 18. Continued

CTSC

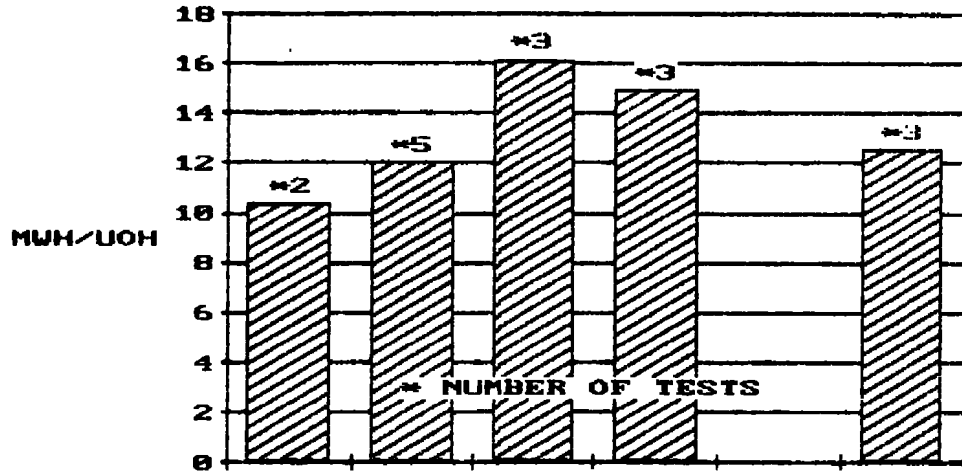


CTSC

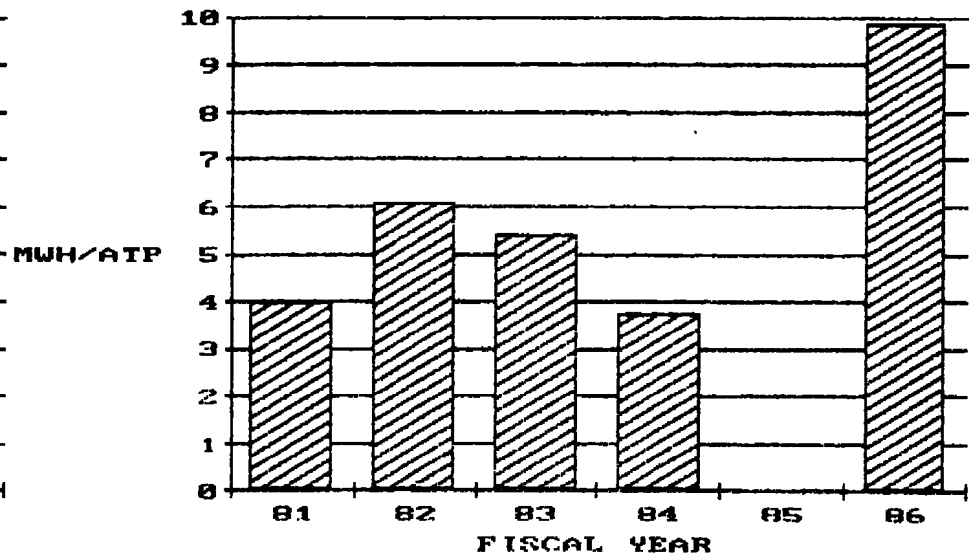
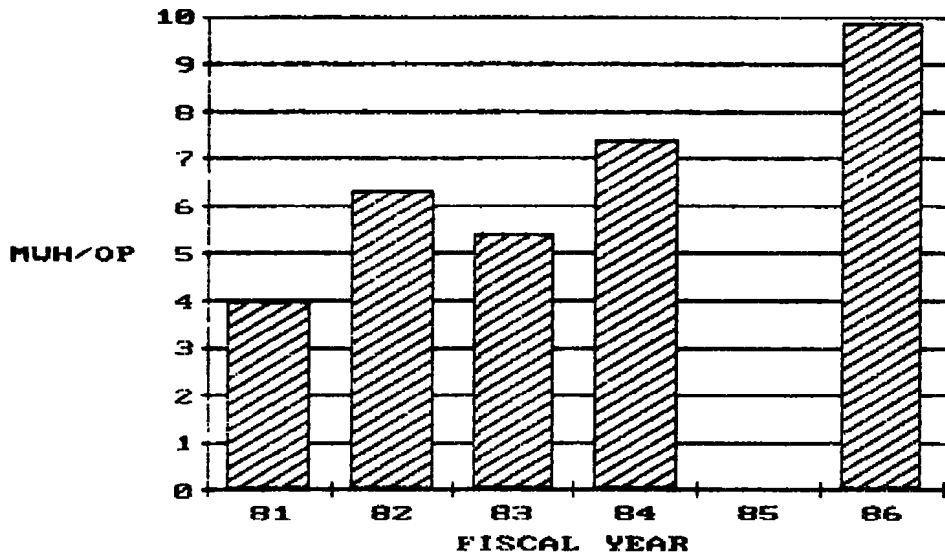


c. CTSC
Figure 18. Continued

DYDC

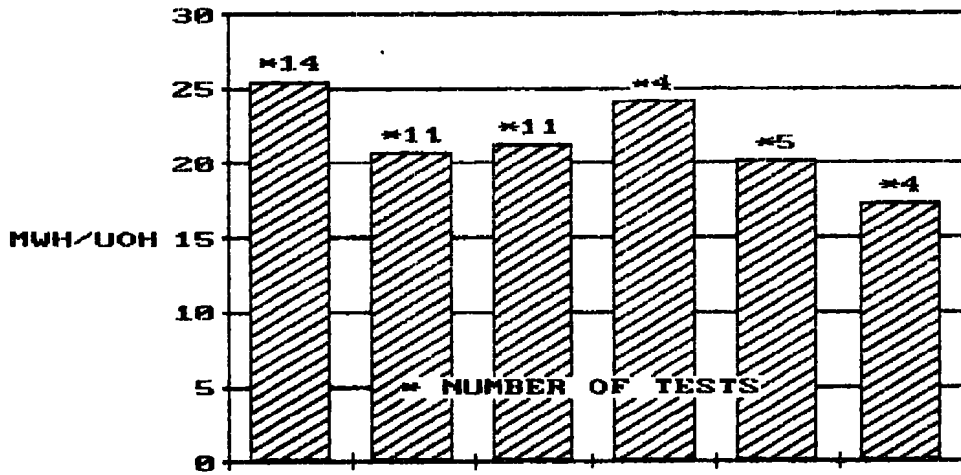


DYDC

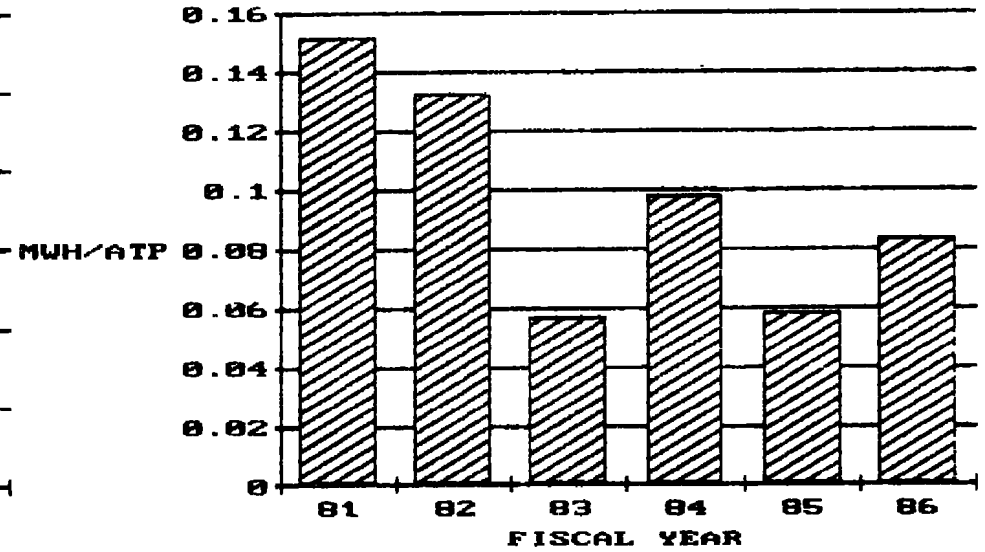
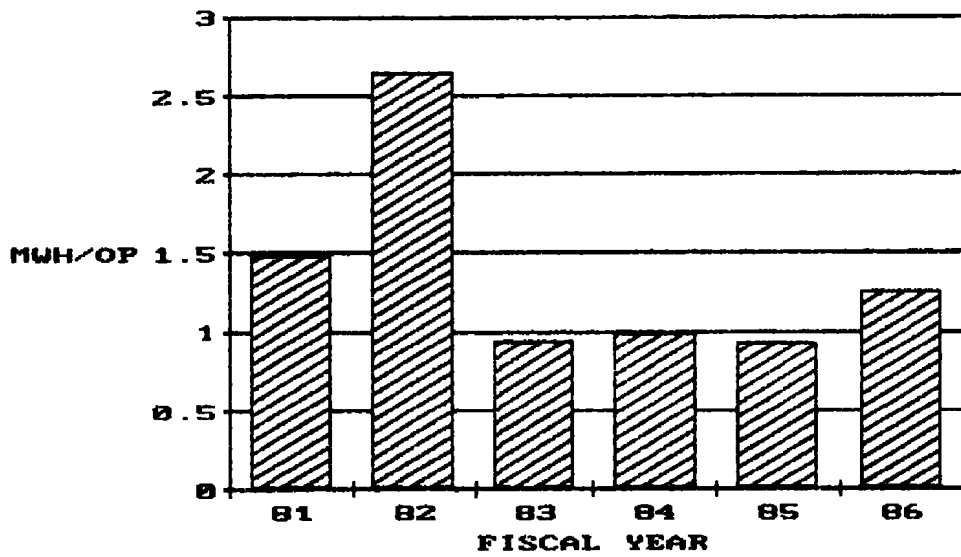
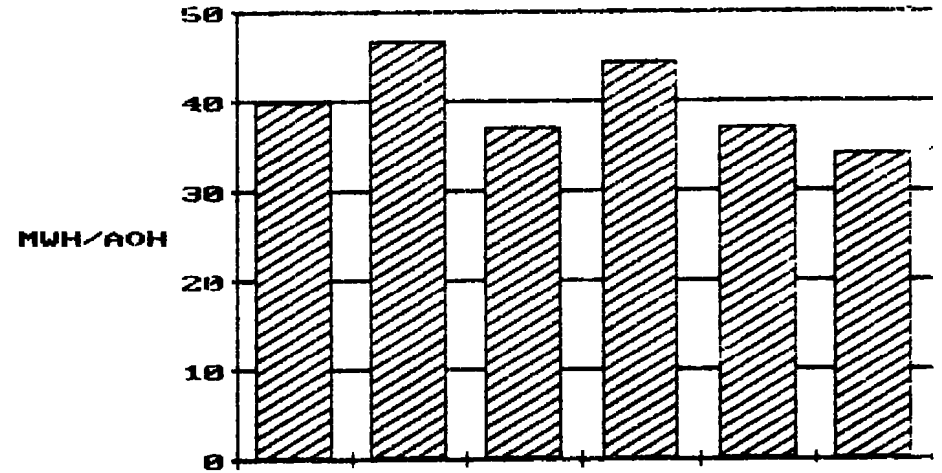


d. DYDC
Figure 18. Continued

GRDC



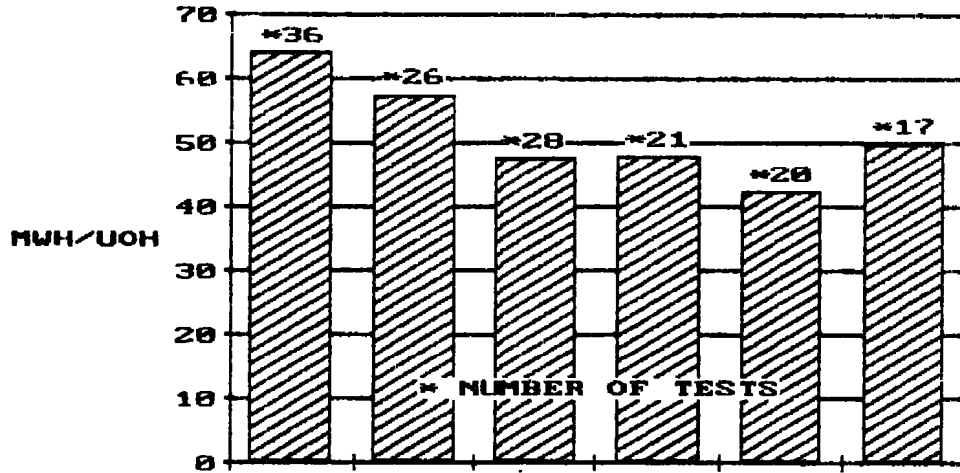
GRDC



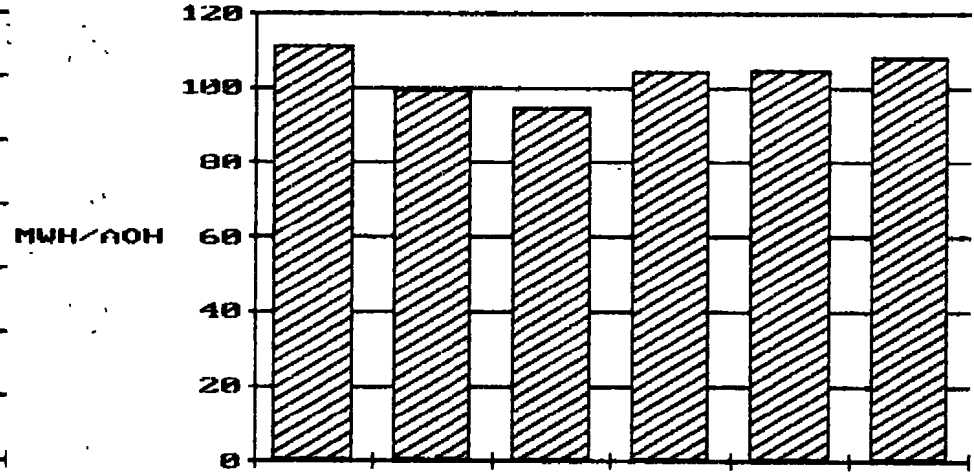
e. GRDC

Figure 18. Concluded

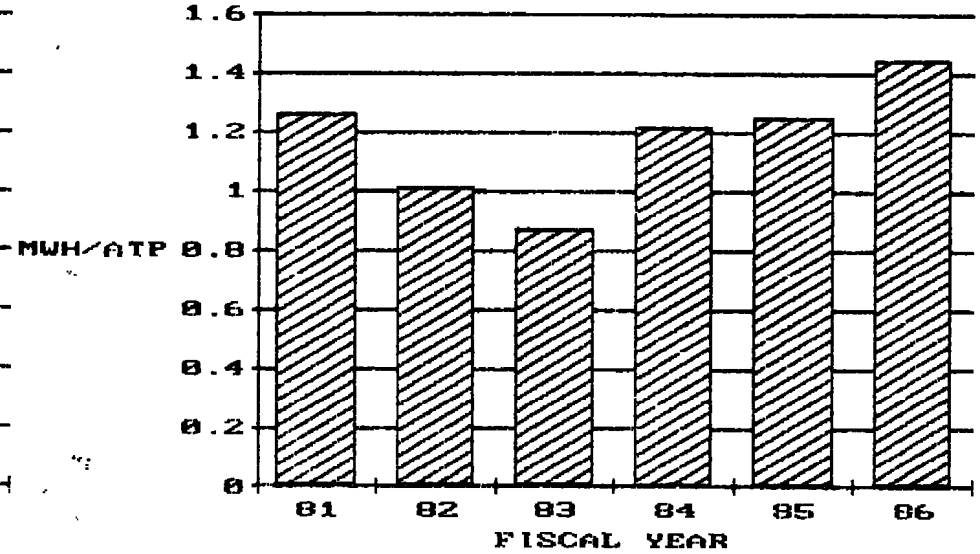
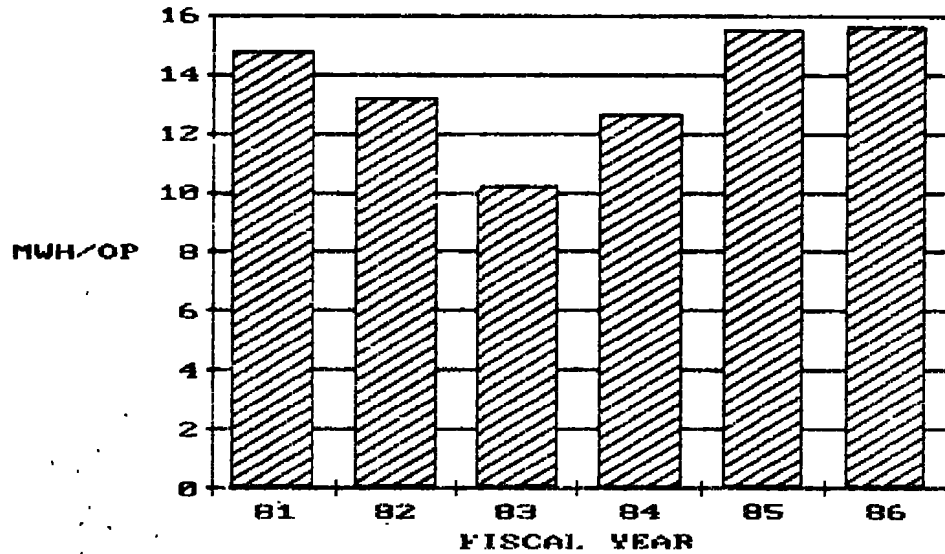
ALL TESTS



ALL TESTS



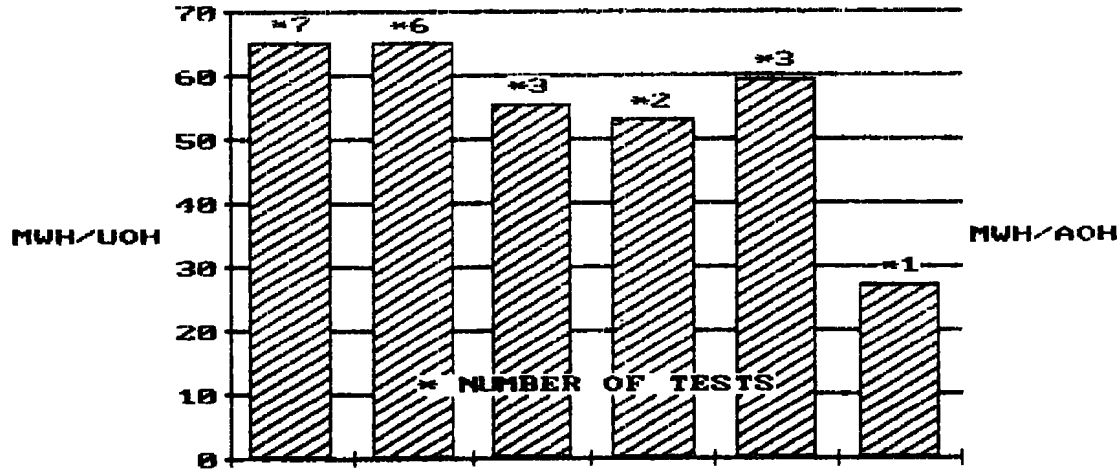
18



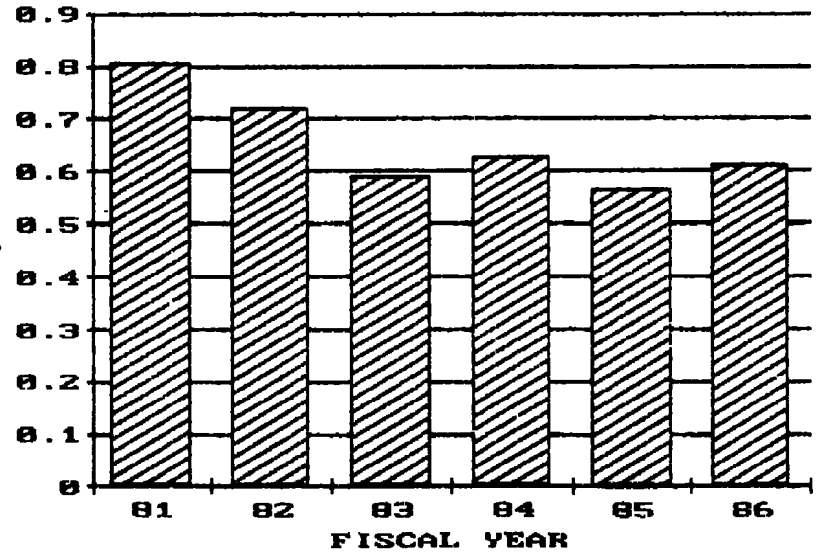
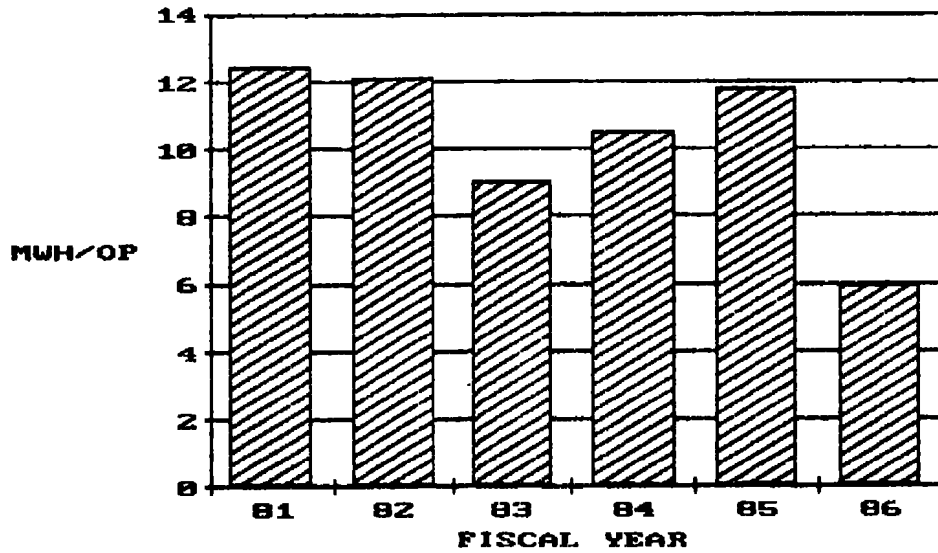
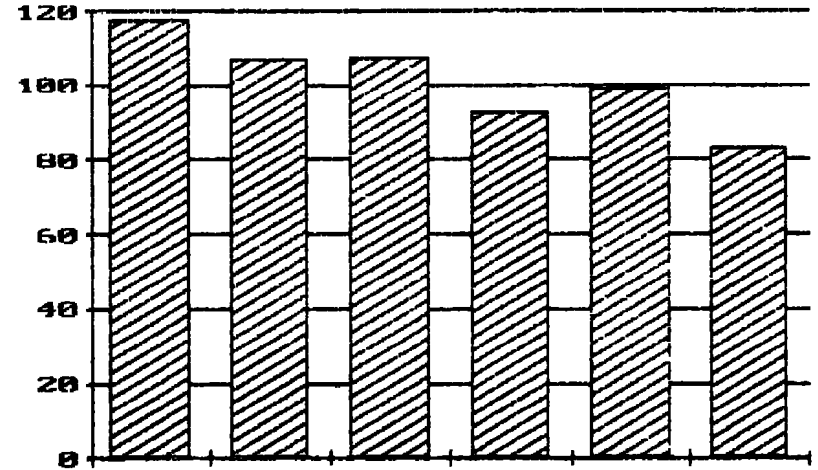
a. All Tests

Figure 19. Electricity Statistics for Tunnel 16T

BALT



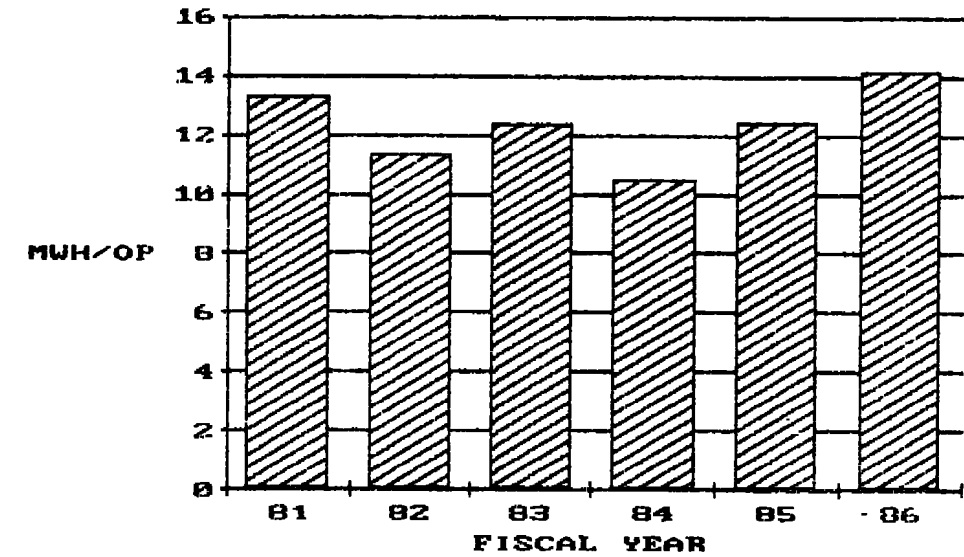
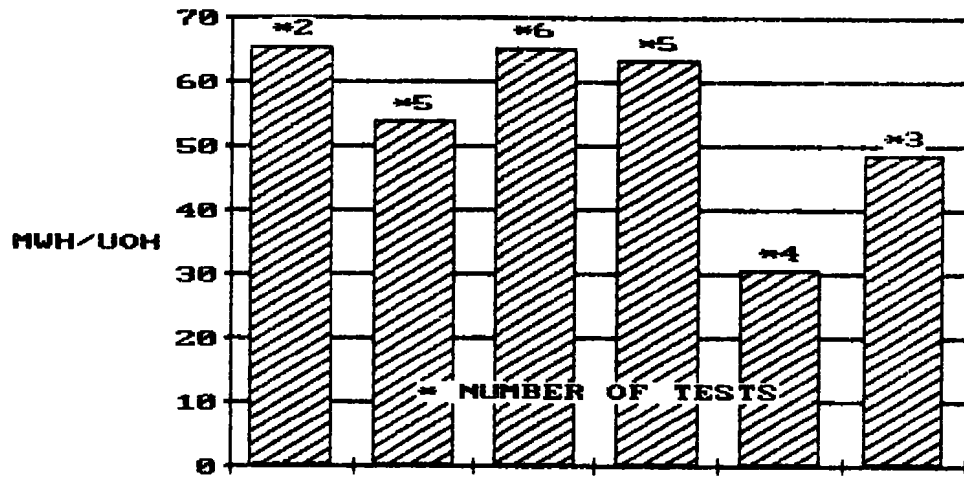
BALT



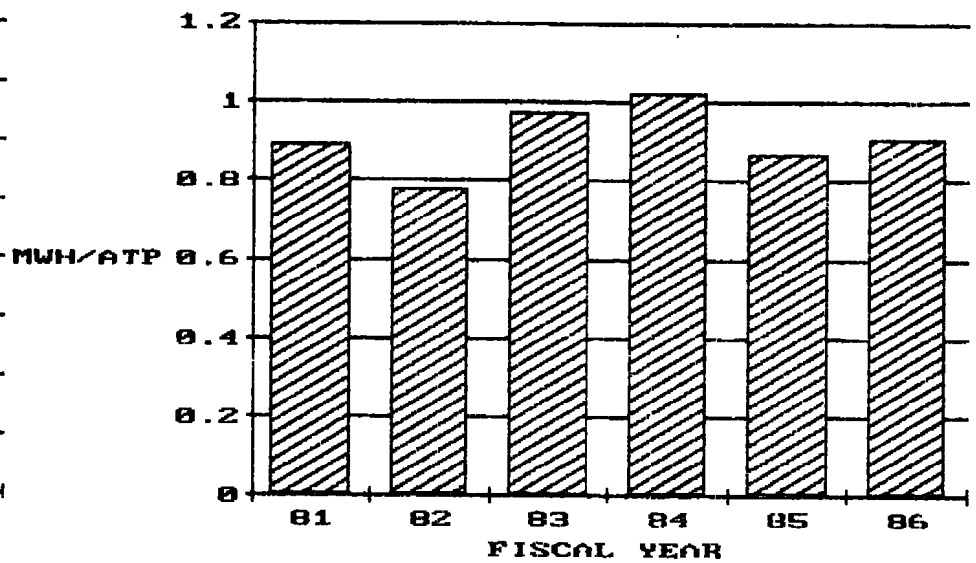
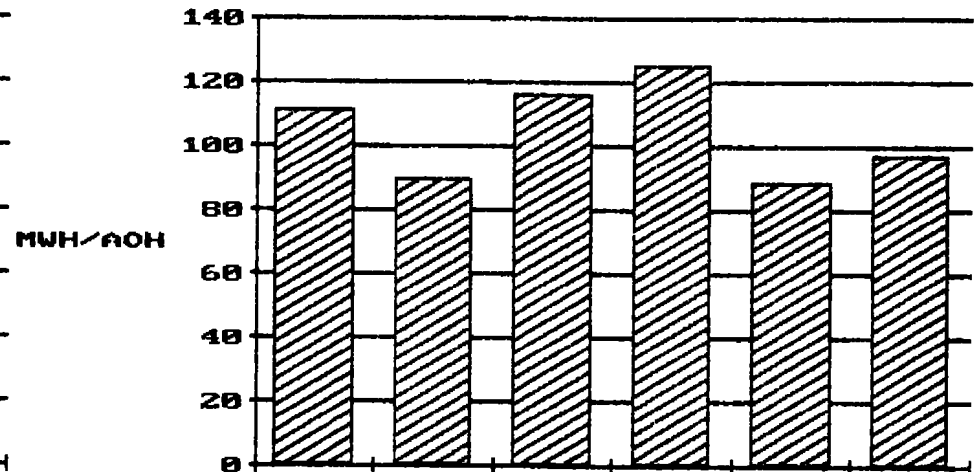
b. BALT
Figure 19. Continued

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BAPT

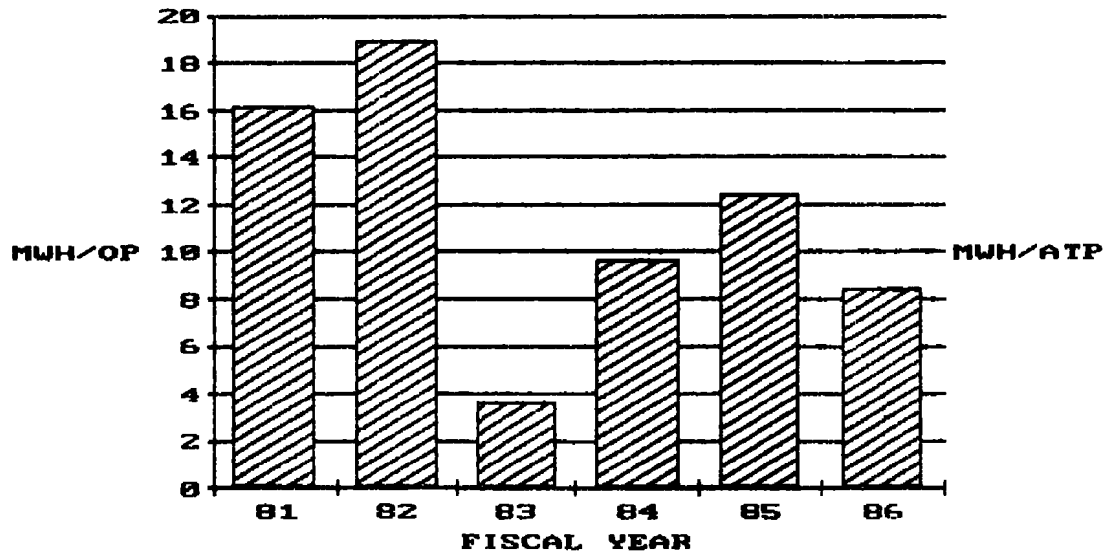
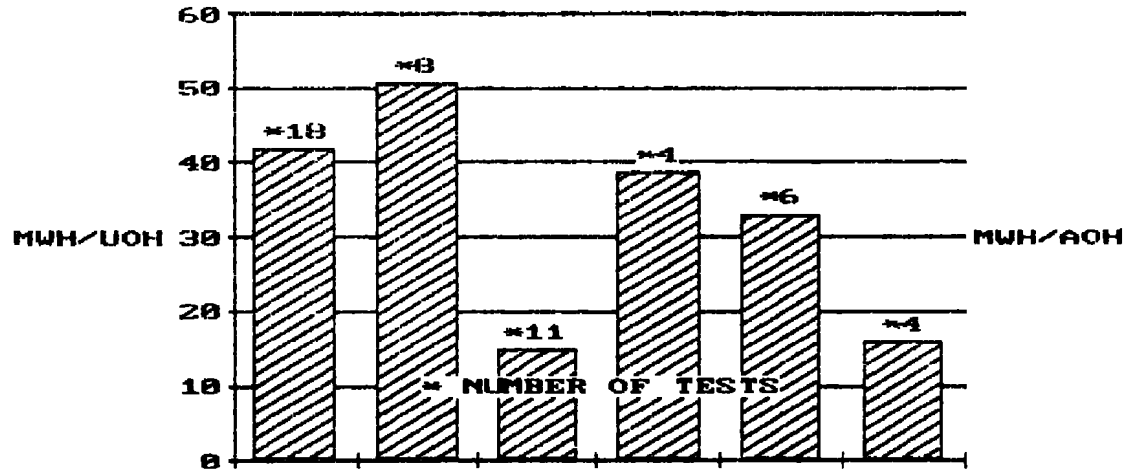


BAPT

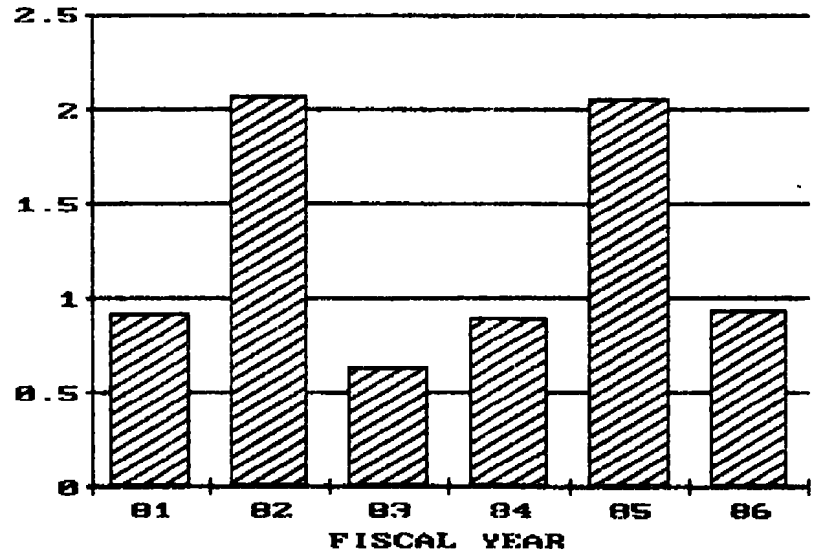
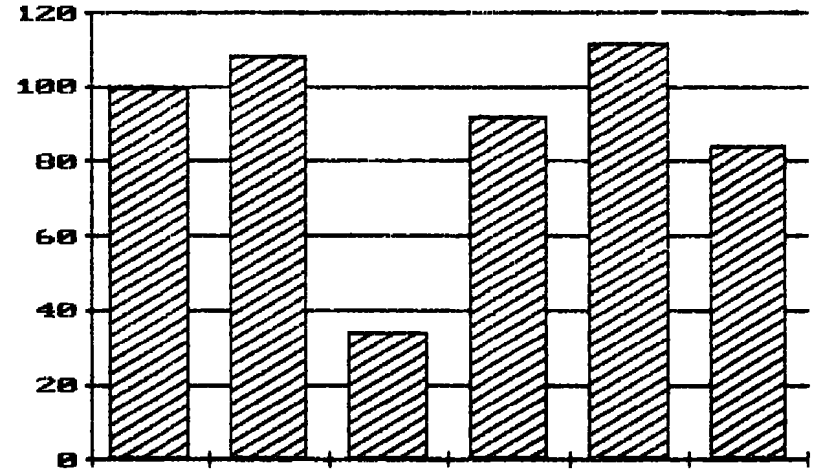


c. BAPT
Figure 19. Continued

MIST



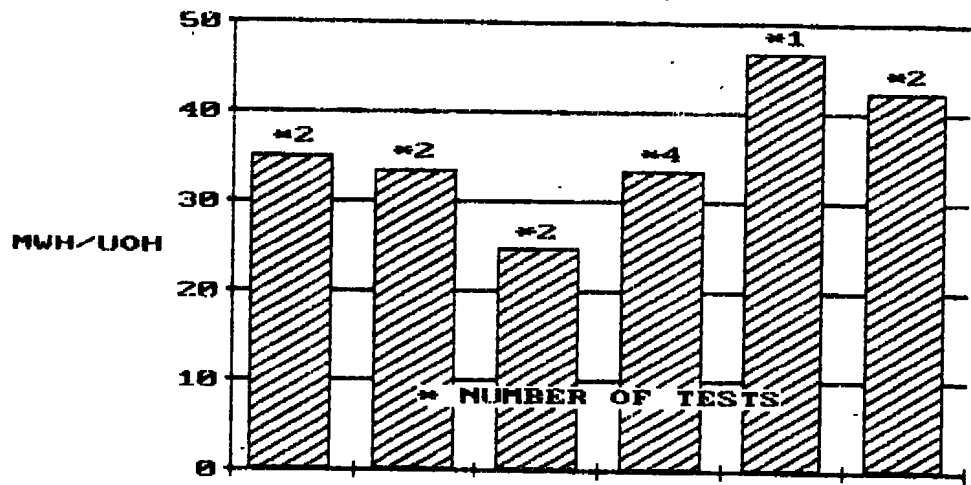
MIST



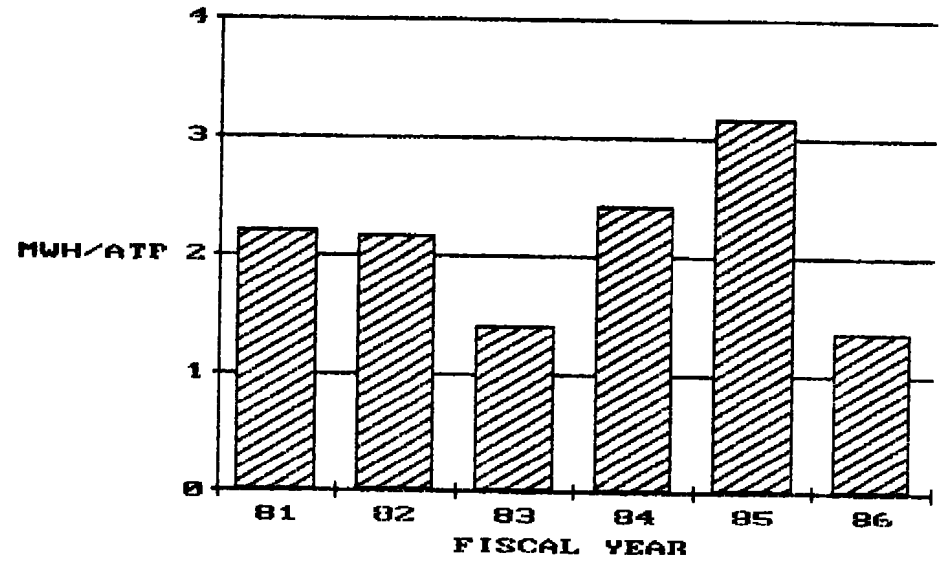
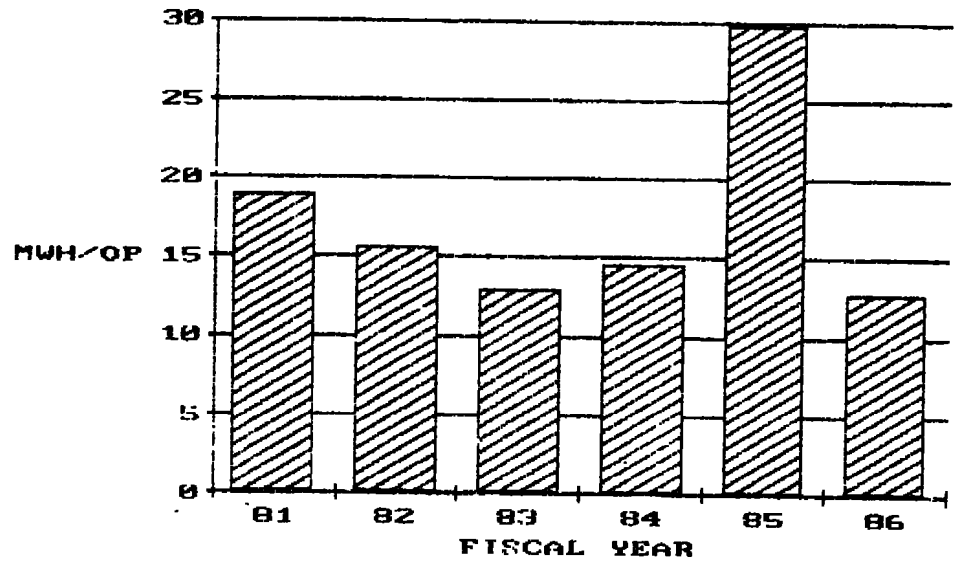
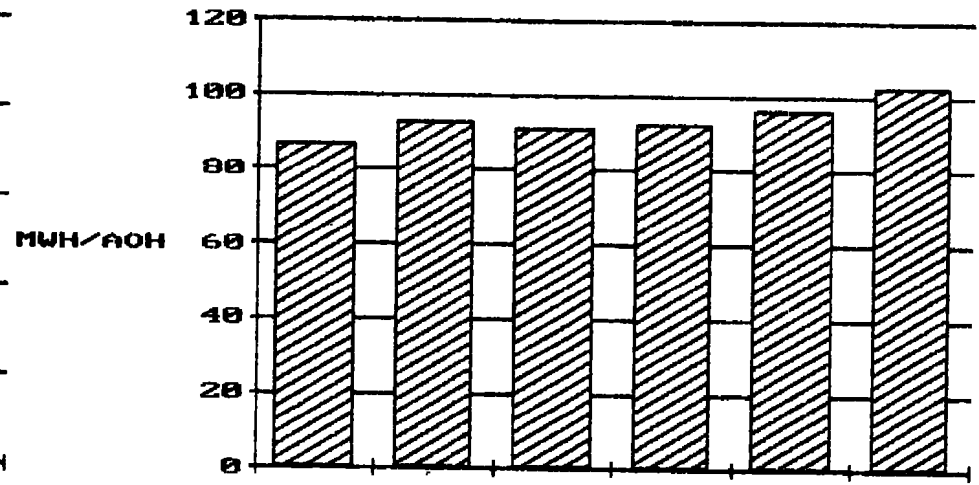
d. MIST

Figure 19. Continued

NABT

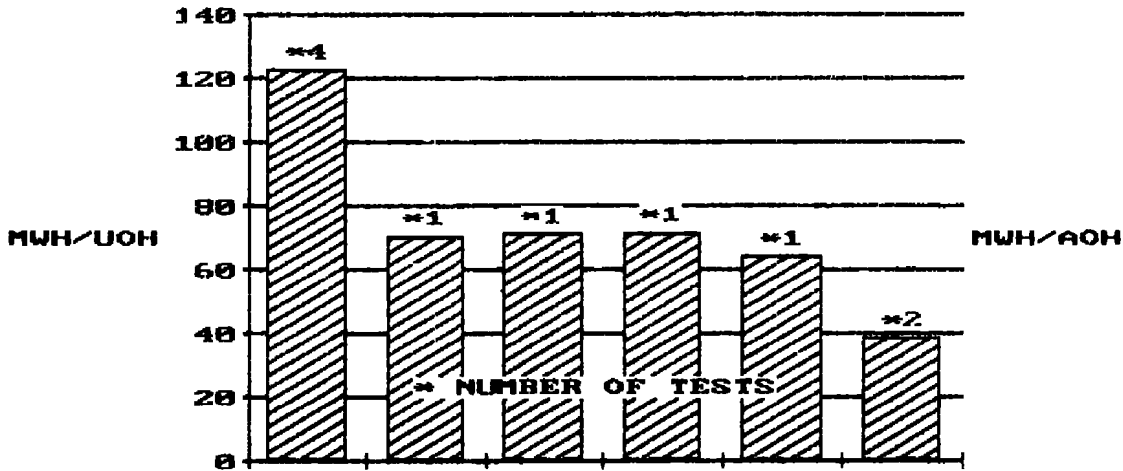


NABT

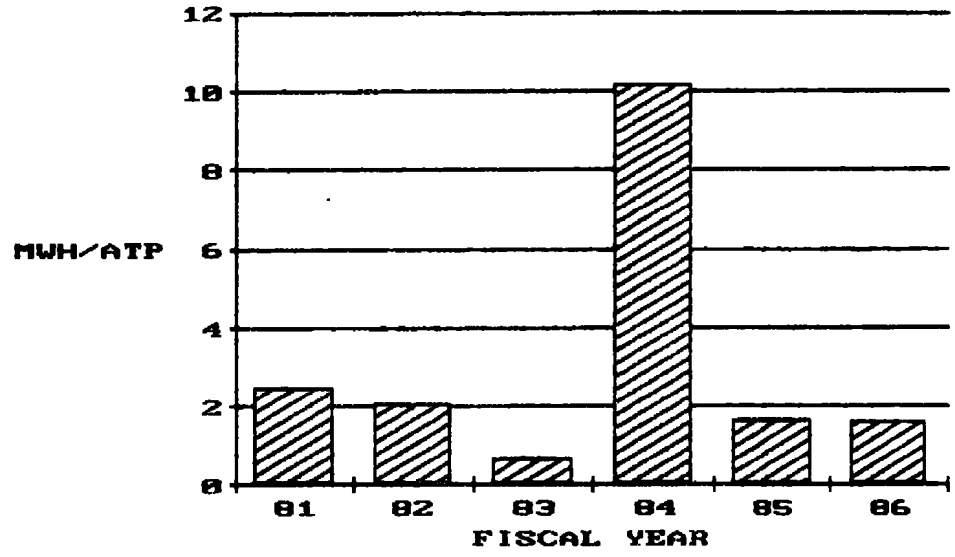
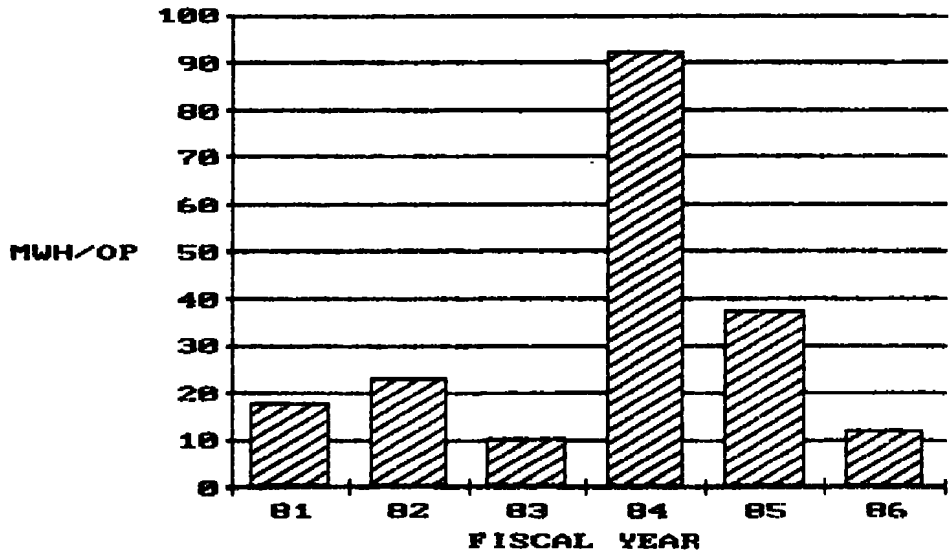
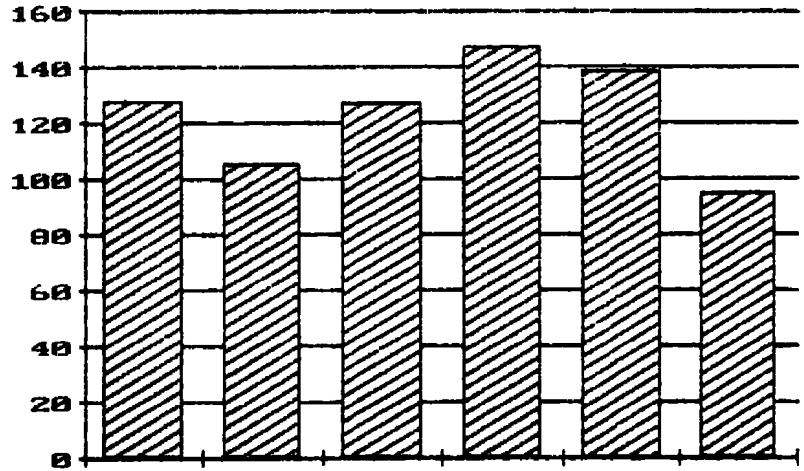


e. NABT
Figure 19. Continued

PRST



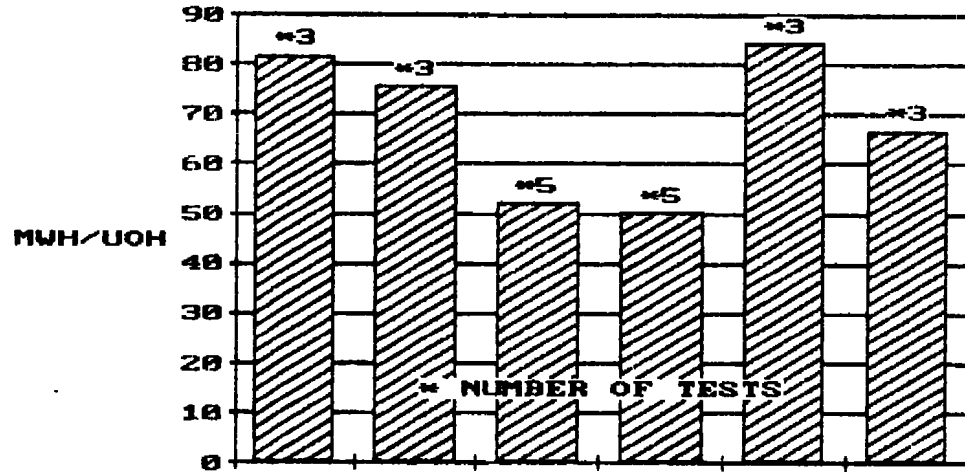
PRST



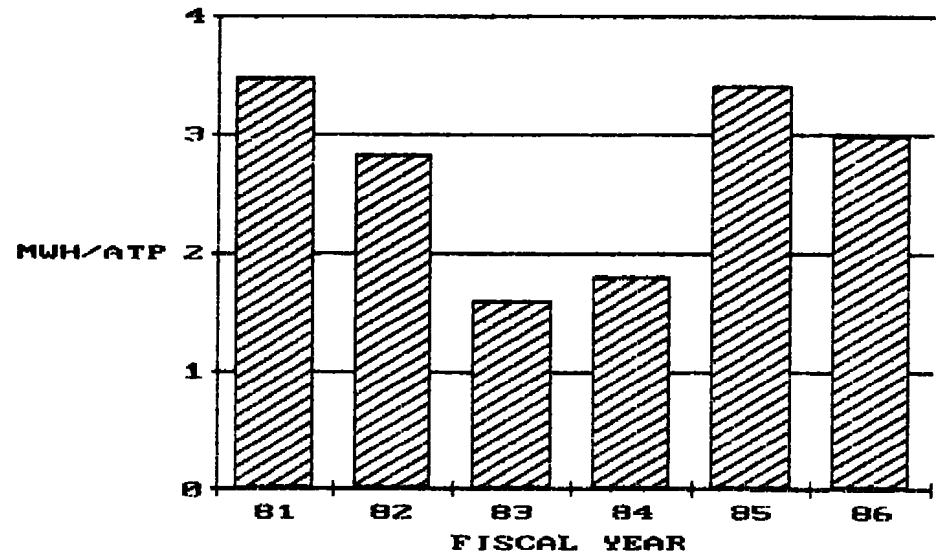
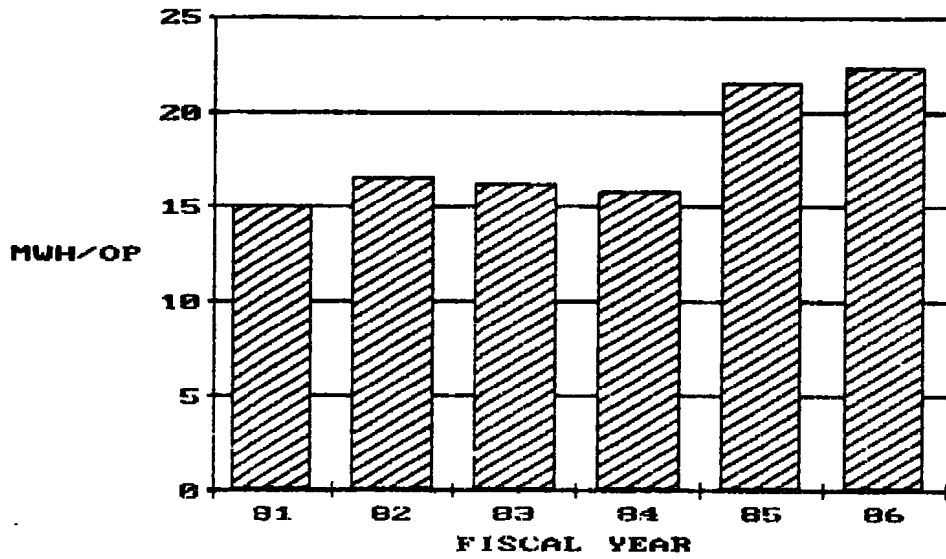
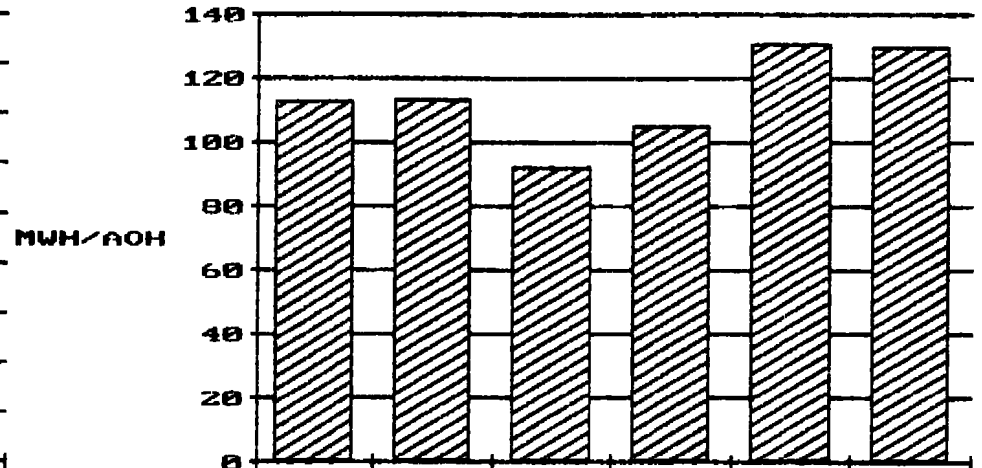
f. PRST
Figure 19. Continued

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SIPT



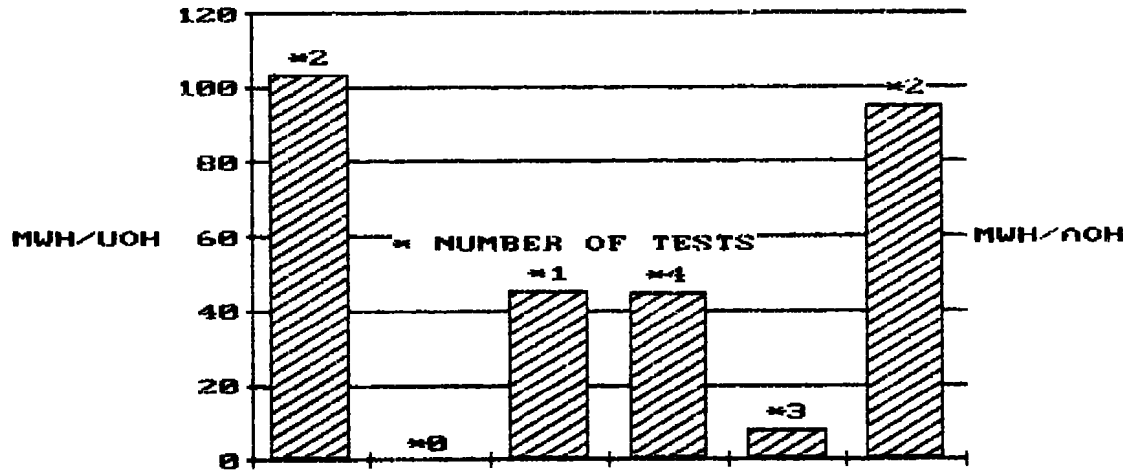
SIPT



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g. SIPT
Figure 19. Concluded

ALL TESTS



ALL TESTS

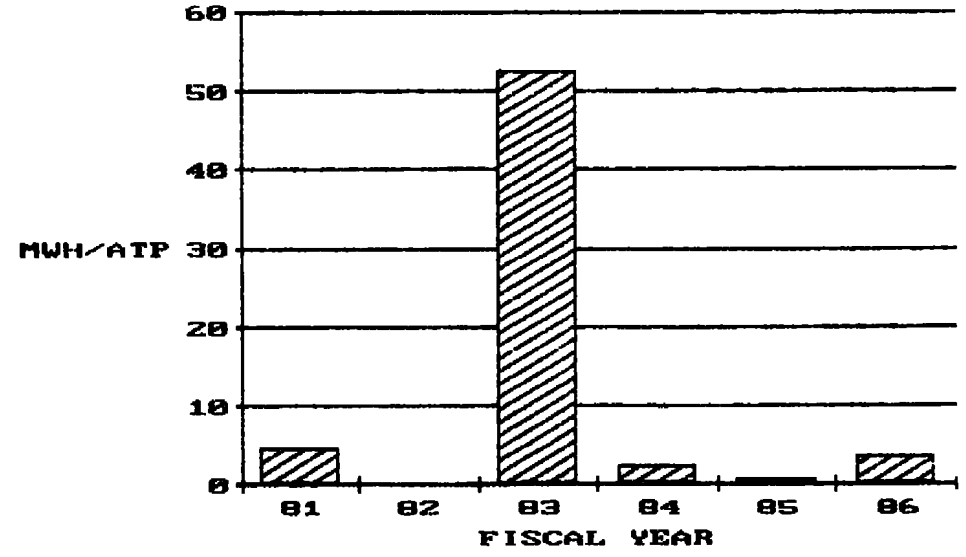
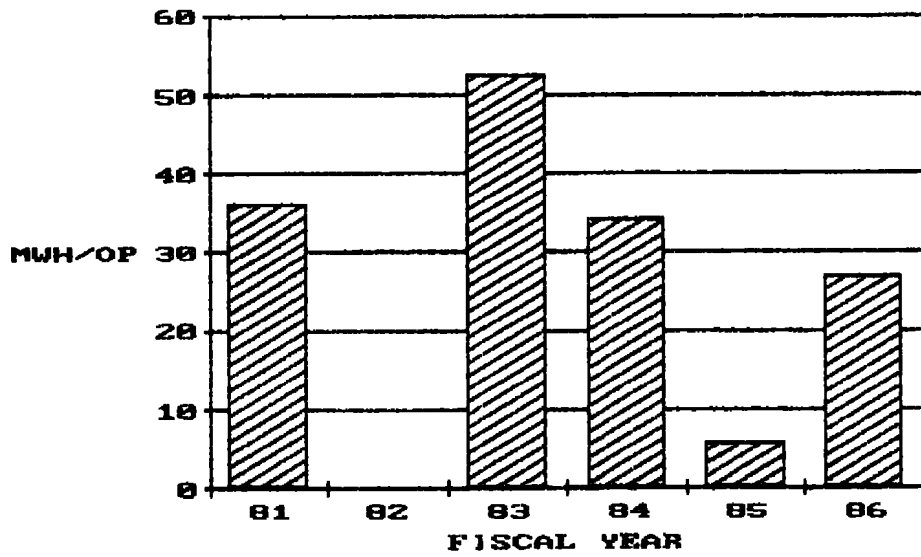
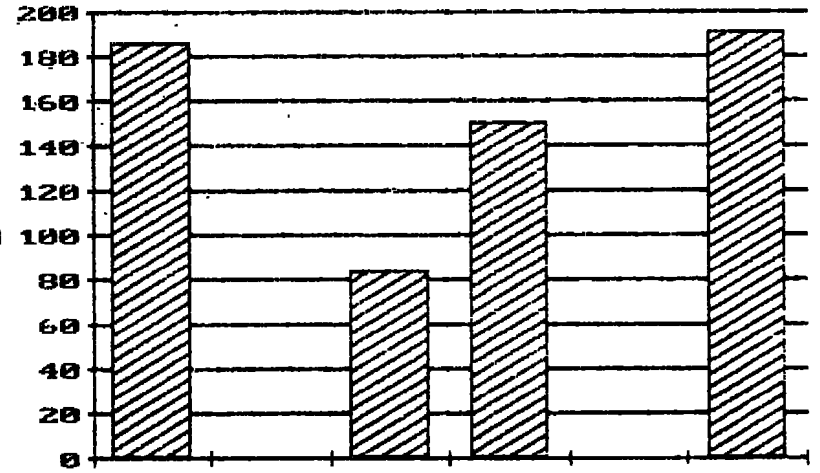


Figure 20. Electricity Statistics for Tunnel 16S (All Tests)

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TUNNEL 16T WORK PHASE DATABASE

OUTPUT CRITERIA

03-Nov-86

AE AF AG AH AI AJ AK AL AM AN AO AP AQ AR AS AT AU AV AW AX AY AZ BA BB BC BD BE EF
 A.F. CAL TEST TYPE DATE FY ENTRS OSH UOH ADH I/R MMH OP ATP PHASE CALSPAN SUPPORT OVER TOTAL LABDR PURCH. TRAVEL PSI ELEC AMDAHL DEC 10 OTHER TOTAL*

5

Regression Output:

ITEMS FOUND:

Constant 1355.2
 Std Err of Y Est 1697.3
 R Squared 0.0790
 No. of Observations 68
 Degrees of Freedom 66

68

X Coefficient(s) 42.606
 Std Err of Coef. 1.9457

LINEAR
 CURVE
 FIT

OUTPUT LISTING		AVERAGE	68	223.5	113.8	53.7	93.0	5,515	414	4,910	5	4,317	625	1,261	6,202	116,204	363	C	1,527	357,830	7,870	15,146	32,993	551,912	FIT			
A.F.	CAL	TEST	TYPE	DATE	FY	ENTRS	OSH	UOH	ADH	I/R	MMH	OP	ATP	PHASE	CALSPAN	SUPPORT	OVER	TOTAL	LABDR	PURCH.	TRAVEL	PSI	ELEC	AMDAHL	DEC 10	OTHER	TOTAL*	
C391	-1B	627	NIST	2.1	83	1	418.0	316.3	139.5	98.0	3,558	1,418	6,868	5	12,118	13	1,726	13,857	253,855	1,359	0	4,037	218,422	2,130	39,412	55,036	574,251	14,832
C392	-3B	613	NIST	7.2	82	1	277.0	93.1	53.8	168.0	6,088	266	2,114	5	5,816	25	520	6,361	109,586	0	0	106	467,714	4,918	14,231	14,151	610,906	5,322
C399	-0T	619	NABT	6.1	82	1	232.7	124.3	39.8	81.3	3,502	268	1,539	5	6,333	9	575	6,917	117,709	0	0	235	275,317	11,876	14,451	9,054	429,642	6,651
C401	-OK	612	BAPT	4.1	82	1	91.2	58.8	35.8	25.5	2,956	317	2,941	5	4,058	29	169	4,256	70,454	0	0	128	233,955	6,995	18,841	4,764	335,137	3,860
C409	-2F	664	BP/M	1.2	84	1	672.7	224.7	60.4	372	5,257	407	4,271	5	7,877	2,727	3,670	14,274	270,145	1,594	0	2,514	306,013	6,615	44,077	63,855	694,813	10,929
C545	-1K	633	BALT	10.4	82	1	46.0	35.3	25.4	0.0	2,591	168	2,813	5	1,791	190	183	2,164	37,261	0	0	29	191,704	975	2,788	6,027	238,784	2,859
C604	-0B	624	SIPT	5.5	82	1	96.2	52.4	33.8	41.0	2,577	245	2,573	5	2,640	771	394	3,805	62,306	100	0	170	205,758	5,274	10,063	7,185	290,856	3,566
C606	-0D	655	SIPT	5.1	83	1	72.2	53.1	33.1	12.0	740	240	2,520	5	2,541	864	609	4,014	68,271	0	0	0	206,754	0	20,603	18,905	312,533	3,616
C607	-0E	666	NIST	2.2	84	1	402.5	211.3	91.0	161.5	6,898	944	10,528	5	9,321	0	2,061	11,382	232,172	0	0	2	519,745	11,950	29,031	61,101	854,001	10,358
C613	-0I	622	NIST	4.4	82	1	103.3	71.3	12.6	25.0	1,196	151	1,748	5	3,527	44	139	3,710	60,378	36	0	168	87,489	512	5,975	1,900	156,458	4,393
C660	-0L	618	NIST	5.4	82	1	24.0	3.9	2.2	20.1	92	34	190	5	330	0	21	351	5,437	0	0	32	8,019	434	1,270	198	15,390	1,521
C664	-1H	630	NABT	9.2	82	1	80.7	15.3	10.7	64.2	1,197	33	626	5	971	0	79	1,050	17,616	0	0	256	89,161	1,098	3,621	2,726	114,478	2,007
C691	-0R	620	B/M	4.2	82	1	15.6	9.2	6.0	6.4	744	115	1,336	5	912	0	41	953	18,352	554	0	190	54,761	626	20,364	2,385	97,232	1,747
C694	-0S	617	BP/M	4.3	82	1	8.5	7.2	7.1	0.0	749	43	606	5	418	3	24	445	7,468	0	0	13	57,892	1,837	156	1,063	68,429	1,662
C708	-0U	621	B/P	5.2	82	1	156.2	69.4	37.6	43.5	3,942	213	2,404	5	3,689	11	211	3,911	64,211	0	0	93	327,576	4,841	26,357	6,271	429,349	4,312
C719	-0W	654	BAPT	8.1	83	1	264.8	95.9	49.3	155.0	5,800	583	8,944	5	5,422	2,468	1,017	8,907	153,504	37	0	2,315	424,117	3,890	0	35,691	619,554	5,441
C720	-0X	653	PREST	10.1	83	1	165.5	97.4	54.8	55.0	6,929	648	9,942	5	5,269	2,018	1,468	8,755	155,609	988	0	5,039	508,176	0	23,507	38,043	731,362	5,525
C741	-1C	626	BAPT	8.1	82	1	129.2	84.4	46.5	33.3	5,833	244	2,955	5	4,848	0	239	5,087	85,102	0	0	55	444,716	5,976	17,787	12,850	560,486	4,951
C744	-1E	629	SIFT	8.2	82	1	238.7	109.1	73.4	106.4	9,294	372	1,921	5	6,603	477	625	7,705	129,734	32	0	3,152	766,181	9,430	15,628	20,333	860,690	6,004
C750	-1F	635	NIST	11.1	82	1	60.0	34.8	1.0	1.2	127	25	400	5	1,005	0	17	1,022	17,750	0	0	0	8,539	252	1,241	950	26,732	2,838
C757	-1G	631	BALT	10.2	82	1	102.3	22.4	17.0	25.0	1,809	135	1,237	5	2,108	0	176	2,284	37,879	0	0	102	133,383	2,098	4,522	4,292	164,276	2,310

Figure 21. Project Resource Prediction Output Format

TUNNEL 16T WORK PHASE ANALYSIS

ALL TESTS (WORK PHASE 5)

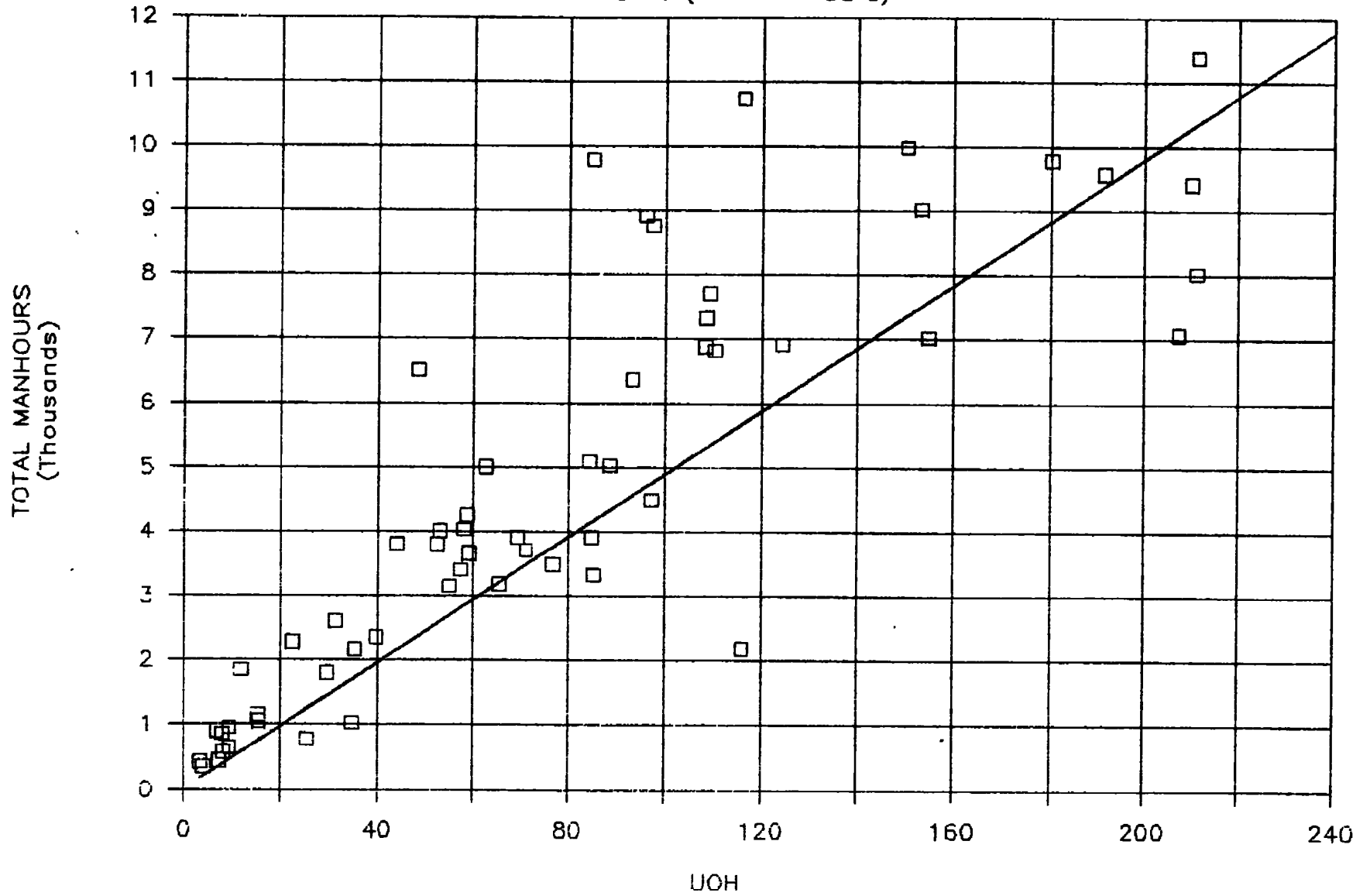


Figure 22. Comparison of Actual and Curve Fit Data

PHASE	FY	ENTRS	OSH	UDH	ADH	I/R	MWH	OP	ATP	PHASE	CALSPAN	SUPPORT	OVER	TOTAL	LABOR	PURCH.	TRAVEL	PSI	ELEC	AMDAHL	DEC 10	OTHER	TOTAL*
1	82	17	114.2	59.5	31.7	37.7	3,376	229	2,835	1	355	43	1	399	7,632	1,613	32	418	0	331	0	319	10,345
1	83	18	161.2	96.4	52.4	48.8	5,174	526	5,980	1	477	9	13	499	10,949	131	624	71	0	558	665	959	13,958
1	84	18	254.6	108.5	46.7	125.3	4,732	347	3,600	1	737	31	36	804	17,914	1,787	386	365	0	150	0	2,460	23,062
1	85	12	408.6	213.5	96.8	174.1	10,118	631	8,571	1	672	91	40	803	18,246	156	957	235	0	76	0	2,149	21,820
1	86	3	289.5	158.0	55.4	154.2	5,974	322	3,471	1	538	23	15	577	13,060	456	0	0	0	72	0	1,768	15,355
2	82	17	114.2	59.5	31.7	37.7	3,376	229	2,835	2	348	1	13	361	7,115	280	0	192	0	0	0	117	7,704
2	83	18	161.2	96.4	52.4	48.8	5,174	526	5,980	2	694	0	0	694	14,254	2,329	0	400	0	0	0	1,492	18,475
2	84	18	254.6	108.5	46.7	125.3	4,732	347	3,600	2	660	7	34	701	15,138	3,117	9	416	0	0	0	1,428	20,107
2	85	12	408.6	213.5	96.8	174.1	10,118	631	8,571	2	490	0	63	553	12,246	163	0	819	0	324	0	1,750	15,301
2	86	3	289.5	158.0	55.4	154.2	5,974	322	3,471	2	275	9	40	325	7,025	1,015	0	6	0	0	0	1,088	9,134
3	82	17	114.2	59.5	31.7	37.7	3,376	229	2,835	3	81	358	54	492	7,630	21	0	336	0	0	0	103	8,090
3	83	18	161.2	96.4	52.4	48.8	5,174	526	5,980	3	44	795	50	889	14,419	11	0	595	0	0	0	2,780	17,805
3	84	18	254.6	108.5	46.7	125.3	4,732	347	3,600	3	82	603	72	757	13,738	117	0	1,481	0	0	0	1,691	17,026
3	85	12	408.6	213.5	96.8	174.1	10,118	631	8,571	3	30	474	240	744	14,336	11	0	1,252	0	0	0	2,309	17,908
3	86	3	289.5	158.0	55.4	154.2	5,974	322	3,471	3	69	399	115	583	10,898	0	0	250	0	0	0	1,852	13,000
4	82	17	114.2	59.5	31.7	37.7	3,376	229	2,835	4	2,758	106	63	2,927	49,129	1,603	70	561	0	484	0	1,280	53,127
4	83	18	161.2	96.4	52.4	48.8	5,174	526	5,980	4	4,093	109	288	4,490	82,371	1,974	244	2,310	1,348	1,011	1,916	15,175	106,348
4	84	18	254.6	108.5	46.7	125.3	4,732	347	3,600	4	4,353	46	698	5,097	102,103	3,750	384	1,869	0	1,002	3,538	15,314	127,960
4	85	12	408.6	213.5	96.8	174.1	10,118	631	8,571	4	5,813	80	953	6,846	135,638	2,071	553	4,426	0	496	11,393	20,905	175,484
4	86	3	289.5	158.0	55.4	154.2	5,974	322	3,471	4	3,975	46	664	4,685	97,850	1,057	0	4,330	0	2	7,356	14,490	125,084
5	82	17	114.2	59.5	31.7	37.7	3,376	229	2,835	5	3,273	100	238	3,611	61,148	42	0	297	257,385	3,775	11,015	7,507	341,170
5	83	18	161.2	96.4	52.4	48.8	5,174	526	5,980	5	4,692	843	968	6,502	117,255	727	0	1,538	390,733	6,469	22,878	31,389	570,989
5	84	18	254.6	108.5	46.7	125.3	4,732	347	3,600	5	3,856	534	1,371	5,782	111,023	90	0	790	324,482	6,608	11,681	32,324	486,997
5	85	12	408.6	213.5	96.8	174.1	10,118	631	8,571	5	6,001	1,043	2,762	9,807	192,938	721	0	4,020	514,601	18,834	17,203	70,012	818,329
5	86	3	289.5	158.0	55.4	154.2	5,974	322	3,471	5	4,603	1,036	2,150	7,190	146,039	193	0	2,882	302,598	3,187	4,718	42,986	502,603
6	82	17	114.2	59.5	31.7	37.7	3,376	229	2,835	6	145	2	2	149	2,413	0	0	1	0	0	0	38	2,451
6	83	18	161.2	96.4	52.4	48.8	5,174	526	5,980	6	171	0	13	185	3,288	0	0	1	0	0	0	443	3,732
6	84	18	254.6	108.5	46.7	125.3	4,732	347	3,600	6	198	1	46	245	4,865	0	0	3	0	0	0	615	5,483
6	85	12	408.6	213.5	96.8	174.1	10,118	631	8,571	6	178	0	73	250	5,033	0	0	0	0	0	0	748	5,781
6	86	3	289.5	158.0	55.4	154.2	5,974	322	3,471	6	193	0	11	204	4,068	0	0	0	0	0	0	611	4,679
7	82	17	114.2	59.5	31.7	37.7	3,376	229	2,835	7	122	0	0	122	2,288	0	0	0	0	294	210	159	2,952
7	83	18	161.2	96.4	52.4	48.8	5,174	526	5,980	7	161	7	0	168	3,294	0	20	0	0	253	0	350	3,917
7	84	18	254.6	108.5	46.7	125.3	4,732	347	3,600	7	30	0	2	33	684	0	0	0	0	1	0	0	685
7	85	12	408.6	213.5	96.8	174.1	10,118	631	8,571	7	299	52	13	364	8,237	0	0	14	0	10,079	0	302	18,632
7	86	3	289.5	158.0	55.4	154.2	5,974	322	3,471	7	71	0	0	71	2,102	0	0	0	0	1,781	0	0	3,884
8	82	17	114.2	59.5	31.7	37.7	3,376	229	2,835	8	996	90	8	1,094	18,526	2	0	331	8,650	1,954	95	650	30,227
8	83	18	161.2	96.4	52.4	48.8	5,174	526	5,980	8	673	12	8	693	12,261	0	23	6	0	740	10	1,656	14,696
8	84	18	254.6	108.5	46.7	125.3	4,732	347	3,600	8	595	0	18	613	11,477	0	100	0	0	10	0	1,545	13,133
8	85	12	408.6	213.5	96.8	174.1	10,118	631	8,571	8	835	7	43	885	17,085	0	0	22	0	31	0	2,648	19,785
8	86	3	289.5	158.0	55.4	154.2	5,974	322	3,471	8	588	0	19	608	12,299	0	0	49	0	3	0	1,821	14,173
TOTAL	82	17	114.2	59.5	31.7	37.7	3,376	229	2,835	TOTAL	8,077	700	378	9,155	155,880	3,561	102	2,158	266,035	6,838	11,320	10,172	456,068
TOTAL	83	18	161.2	96.4	52.4	48.8	5,174	526	5,980	TOTAL	11,004	1,775	1,340	14,119	258,090	5,172	911	4,921	392,081	9,031	25,470	54,243	749,919
TOTAL	84	18	254.6	108.5	46.7	125.3	4,732	347	3,600	TOTAL	10,511	1,242	2,279	14,032	276,942	8,860	879	4,924	324,482	7,771	15,218	35,378	694,453
TOTAL	85	12	408.6	213.5	96.8	174.1	10,118	631	8,571	TOTAL	14,318	1,748	4,187	20,253	403,759	3,123	1,511	10,787	514,601	29,840	28,596	100,822	1,093,039
TOTAL	86	3	289.5	158.0	55.4	154.2	5,974	322	3,471	TOTAL	9,713	1,514	3,015	14,243	293,341	2,721	0	7,517	302,598	5,045	12,074	64,616	687,912

Figure 23. Output Format for Work Phase Fiscal Year Trends

TUNNEL 16T WORK PHASE ANALYSIS

ALL TESTS

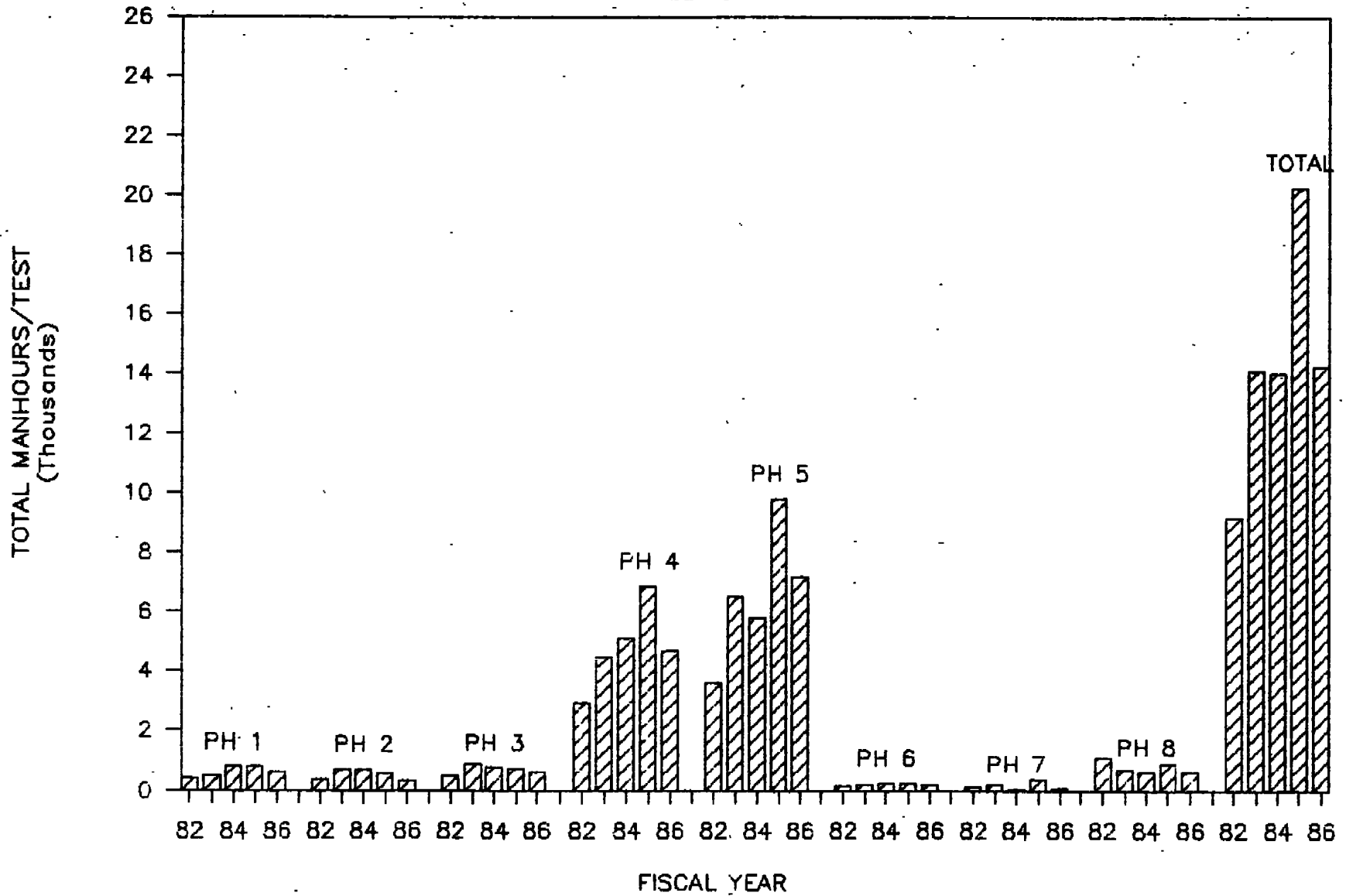
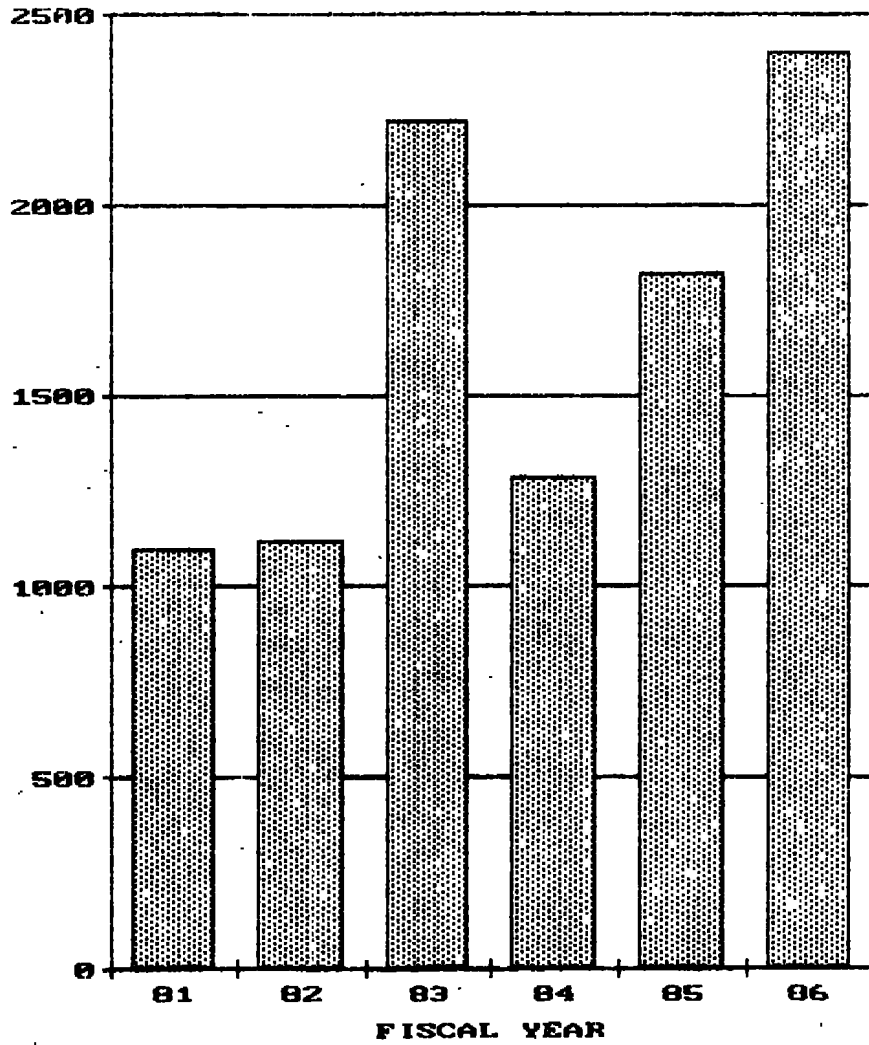


Figure 24. Manhour Variation with Fiscal Year and Work Phase

**TUNNEL 4T USER OCCUPANCY
HOURS
FY81-FY86**



**TUNNEL 4T TEST TYPES
FY81-FY86**

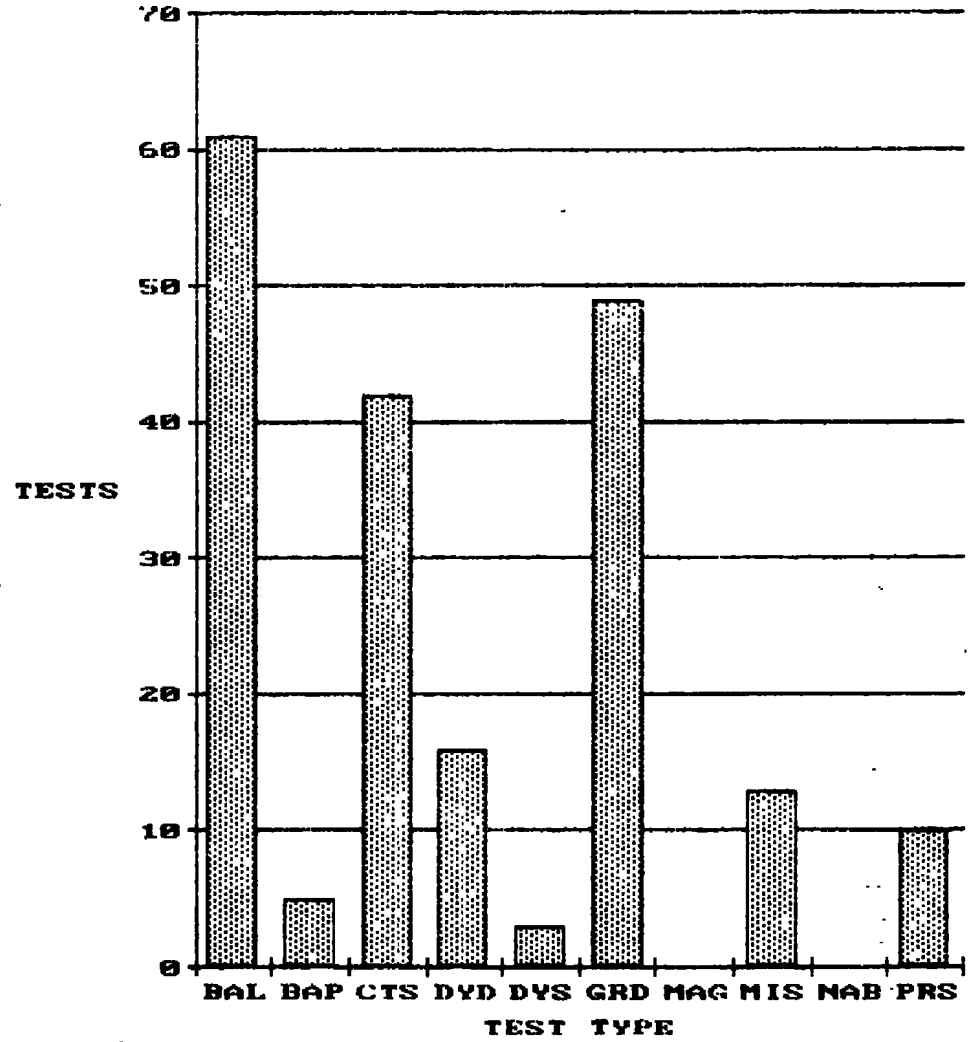


Figure 25. Economic Analysis Statistics

APPENDIX A

Test Database Tabulations

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TEST PROJ A.F. SPONSOR	TITLE	TYPE PD	FY	P.E.	DOWNTIME										MANHOURS										COST (\$)				
					ENTR	OSH	UDH	ADH	I/R	SCHED	AEDC	MMH	OP	ATP	CALSPAN	SUPPORT	DT	TOTAL	LABOR	MAT.	TRAV.	PSI	ELEC	COMP	OTHER	TOTAL*			
341 71	SANSO PROJ HEART PH I	CTSC	1.1	75	G. MATTASITS	1	42.8	29.4	19.6	6.5	9.0	6.2	1,448	98	6,313	1,659	130	100	1,885	15,615	53	0	153	4,308	0	0	20,129		
335 74	AFATL A/C STORE COMP	DYDC	1.2	75	R. PAULK	1	36.8	14.8	4.1	12.3	0.0	1.5	242	31	124	370	30	20	420	3,360	10	0	28	830	0	0	4,190		
322 46	AFFDL I-24C	BALC	1.3	75	J. WHORIC	1	41.1	24.0	14.3	12.3	0.0	1.0	693	162	1,310	1,580	130	90	1,800	16,000	51	0	146	3,000	0	0	19,196		
382 01	AFATL AIR BEARING TECH	DYSC	1.4	75	A. MANSFIELD	1	41.0	0.0	0.0	38.0	0.0	0.0	0	0	0	1,410	110	80	1,600	14,000	37	0	107	0	0	0	14,145		
343 72	AFATL HIGH ALPHA AERO	BALC	1.5	75	T. SHADOW	1	65.8	39.0	33.3	13.5	0.0	0.8	863	365	8,077	1,760	140	100	2,400	17,000	59	0	168	5,000	0	0	22,227		
342 69	ARMY AEROSPUN CLUSTER	BALC	1.6	75	D. SMITH	1	31.9	24.8	14.3	5.4	0.0	1.4	999	140	1,870	1,230	100	70	1,400	12,000	40	0	115	3,000	0	0	15,155		
341 71	SANSO PROJ HEART PH II	BALC	1.7	75	G. MATTASITS	1	56.3	26.4	16.8	25.6	0.0	1.0	797	162	2,732	1,420	110	80	1,615	13,385	46	0	131	3,692	0	0	17,253		
347 90	AEDC 4T IMPROVEMENTS	BALC	2.1	75	J. BUNN	1	2.2	2.2	2.2	0.0	0.0	0.0	110	22	1,936	250	20	10	289	3,066	9	0	26	361	0	0	3,462		
346 73	AFFDL ETERNAL STORES	BALC	2.2	75	J. WHORIC	1	155.0	106.2	62.1	23.3	0.0	15.6	4,124	524	8,335	3,700	290	210	4,200	33,000	128	0	368	15,000	0	0	48,496		
348 59	ASD F-15 STORE COMP	CTSC	2.3	75	B. HILL	1	77.3	48.6	34.5	6.0	0.0	8.4	1,167	241	8,635	2,020	160	120	2,300	20,000	72	0	207	7,000	0	0	27,279		
345 74	AFATL A/C STORE COMP	CTSC	2.4	75	R. PAULK	1	41.7	33.5	18.2	12.0	0.0	6.3	832	87	3,385	1,640	130	90	1,860	14,900	50	0	143	3,730	0	0	18,822		
344 24	AFFDL INSTR WEAPON DAY	PRSC	2.5	75	C. ANDERSON	1	73.0	58.2	32.6	12.5	0.0	1.4	1,456	279	1,194	3,170	250	180	3,600	32,000	107	0	306	8,000	0	0	40,413		
338 65	AFATL AEROSPUN DISPENSER	BALC	3.1	75	H. KAUPP	1	53.2	27.7	21.1	12.5	0.0	3.8	674	224	2,380	1,950	150	100	2,100	18,000	59	0	168	4,000	0	0	22,227		
353 74	AFATL A/C STORE COMP	CTSC	3.2	75	R. PAULK	1	29.8	15.0	11.9	9.4	0.0	5.3	637	62	4,110	1,070	90	60	1,220	9,740	33	0	93	2,440	0	0	12,366		
354 90	AEDC 4T IMPROVEMENTS	BALC	3.3	75	B. HILL	1	16.3	6.6	5.7	7.0	0.0	2.6	251	9	2,800	660	50	40	748	7,943	24	0	68	934	0	0	8,969		
350 81	ARMY PERSHING II VEN	BALC	3.4	75	B. SMILLION	1	50.0	25.6	19.7	20.0	0.0	3.3	1,150	106	3,889	2,468	200	150	2,800	23,000	72	0	207	4,000	0	0	27,279		
331 75	AEDC OMEGA CORRELATION	PRSC	3.5	75	H. KAUPP	1	27.0	13.5	10.0	12.0	0.0	0.5	575	62	522	1,800	144	103	2,050	18,420	59	0	169	3,680	0	0	22,328		
349 68	ARMY FREE ROCKET TECH	NASC	3.6	75	E. WASHINGTON	1	87.3	33.6	23.2	42.5	0.0	9.2	713	107	4,091	3,088	245	175	3,500	29,000	91	0	260	5,000	0	0	34,351		
352 53	AFFDL EXT STORES/ADV WING	PRSC	4.1	75	D. SMITH	1	95.2	71.5	57.7	9.5	0.0	12.9	3,210	404	21,375	3,088	245	175	3,500	28,000	88	0	253	10,000	0	0	38,341		
351 58	AFATL A-7D FLOWFIELD	CTSC	4.2	75	J. CARRAN	1	64.3	50.1	44.3	9.0	0.0	5.2	1,389	300	9,722	2,110	168	120	2,400	21,000	65	0	186	7,000	0	0	28,251		
311 75	AEDC OMEGA CORRELATION	PRSC	4.3	75	H. KAUPP	1	62.9	35.3	21.8	24.2	0.0	3.4	1,016	205	1,621	1,630	130	93	1,850	16,580	46	0	133	3,320	0	0	20,079		
355 43	AFFDL WING TAIL FLUTTER	FLTC	4.4	75	M. CARLETON	1	48.6	18.6	9.0	22.0	0.0	0.0	465	6	709	1,850	147	105	2,100	19,000	51	0	147	3,000	0	0	22,198		
358 52	AFATL BOATTAIL MAGNUS	NASC	4.5	75	T. SHADOW	1	71.0	52.4	36.3	17.4	0.0	1.2	1,735	530	25,613	3,610	287	205	4,100	36,000	100	0	286	7,000	0	0	43,386		
359 93	NAVY GUIDED PROJECTILE	NASC	4.6	75	T. SHADOW	1	16.0	5.5	3.1	10.5	0.0	0.0	132	23	122	880	70	50	1,000	9,000	23	0	67	1,000	0	0	10,090		
360 91	AFFDL I-24C	BALC	5.1	75	J. WHORIC	1	33.8	23.9	19.3	8.0	0.0	1.9	1,143	201	2,609	1,584	126	90	1,800	17,000	46	0	133	3,000	0	0	20,180		
361 78	AFFDL MICRO FIGHTER	BALC	5.2	75	C. ANDERSON	1	107.8	95.1	51.8	6.0	0.0	3.3	2,923	602	5,819	3,260	259	185	3,700	32,000	104	0	300	13,000	0	0	45,404		
357 61	AEDC WACH 6 EXP FIGHTER	PRSC	5.3	75	B. ALLEE	1	53.0	37.9	22.3	12.0	0.0	3.1	940	234	2,644	2,110	168	120	2,400	21,000	65	0	186	7,000	0	0	28,251		
366 94	ADTC MODIFIED EODB-II	BALC	5.4	75	H. KAUPP	1	67.7	42.6	28.9	23.0	0.0	3.6	1,337	296	3,455	2,070	165	118	2,356	19,535	65	0	187	8,618	0	0	28,456		
356 63	AFATL VIRTUAL AERO EFFECTS	CTSC	6.1	75	G. MATTASITS	1	70.4	53.6	31.8	15.0	0.0	2.8	1,469	274	5,009	2,000	160	114	2,280	18,210	63	0	182	9,110	0	0	27,565		
370 79	AFATL MULTI WEAPON DESIGN	CTSC	6.2	75	B. HILL	1	10.0	9.1	0.0	0.0	0.0	0.0	210	45	909	500	40	29	570	5,000	15	0	43	1,400	0	0	6,457		
363 94	ADTC MODIFIED EODB-II	CTSC	6.3	75	J. CARRAN	1	45.1	30.0	21.4	10.0	0.0	3.6	786	133	8,752	1,530	122	87	1,744	14,465	48	0	139	6,382	0	0	21,034		
368 76	AEDC 5TH STAB RESEARCH	DYSC	6.4	75	A. MANSFIELD	1	31.5	16.5	7.2	14.0	0.0	0.0	245	73	266	630	50	36	720	6,240	19	0	55	2,080	0	0	8,395		
365 77	AEDC TRANS FLOWFIELD	CTSC	7.1	75	H. CUNNINGHAM	1	67.4	48.4	35.2	11.5	0.0	3.0	1,531	405	6,052	2,750	220	156	3,120	26,179	86	0	247	10,970	0	0	37,474		
367 77	AEDC TRANS FLOWFIELD	CTSC	7.2	75	H. CUNNINGHAM	1	19.2	10.8	6.5	8.0	0.0	3.9	218	26	1,265	510	40	29	580	4,830	16	0	46	2,030	0	0	6,922		
328 96	AFFDL HIGH ALPHA AERO	BALC	7.3	75	C. ANDERSON	1	100.8	85.2	45.9	6.5	0.0	9.1	2,487	371	8,078	3,080	240	175	3,500	28,000	107	0	306	18,300	0	0	46,415		
371 84	AFFDL AIR SLEM-HUGHES	DYDC	7.4	75	B. ALLEE	1	21.5	10.3	4.0	11.5	0.0	1.0	149	22	54	273	22	16	310	2,660	9	0	25	1,160	0	0	3,854		
362 84	AFFDL AIR SLEM-HUGHES	CTSC	7.5	75	J. CARRAN	1	49.1	36.8	30.3	8.0	0.0	1.5	1,132	147	15,379	2,077	165	118	2,340	20,080	67	0	192	8,790	0	0	29,129		
370 79	AFATL H.J. WEAPON DESIGN	CTSC	8.1	75	B. HILL	1	26.9	21.3	18.4	2.0	0.0	2.2	649	128	4,108	1,566	125	89	1,780	15,430	46	0	131	4,300	0	0	19,907		
369 88	ASD A-10/AGM-65A	CTSC	8.2	75	R. PAULK	1	58.8	40.5	32.0	14.0	0.0	4.3	1,362	183	11,032	2,552	203	145	2,900	25,000	79	0	226	9,000	0	0	34,305		
372 83	ASD ASALM-MARTIN	BALC	8.3	75	P. YEAKLEY	1	71.9	49.9	27.3	20.5	0.0	1.5	1,139	317	3,869	2,376	189	135	2,700	21,000	74	0	213	11,000	0	0	32,287		
375 86	AFATL MX 82/84 AIR	BALC	8.4	75	T. SHADOW	1	10.2	5.2	3.1	5.0	0.0	0.0	117	36	711	405	32	23	460	4,200	12	0	35	1,020	0	0	5,267		
374 63	AFATL VIRTUAL AERO EFFECTS	CTSC	8.5	75	G. MATTASITS	1	94.0	61.0	52.0	14.0	0.0	15.5	2,003	213	6,126	3,274	260	186	3,720	29,790	104	0	298	14,890	0	0	45,081		
373 89	ASD ASALM-MCDONALD	BALC	9.1	75	H. KAUPP	1	57.9	51.6	28.3	5.0	0.0	1.3	1,545	284	5,037	2,464	196	140	2,800	26,000	86	0	246	11,000	0	0	37,332		
378 97	AFFDL I-24C	BALC	9.2	75	E. WASHINGTON	1	38.0	24.2	14.3	9.0	0.0	0.2	720	174	3,090	1,056	84	60	1,200										

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TEST PROJ A.F. SPONSOR	TITLE	TYPE PD	FY	P.E.	ENTR OSH	UOH	AOH	I/R	SCHED	AEDC	MMH	OP	ATP	MANHOURS			COST (\$)										
														CALSPAN	SUPPORT	OT	TOTAL	LABOR	MAT.	TRAV.	PSI	ELEC	COMP	GTWEP	TOTAL		
384 02	AFATL	F-4C STAB/CONTROL	BALC	10.3	75 E. WASHINGTON	1	39.3	29.3	19.9	7.0	0.0	3.0	1,151	177	5,698	1,584	126	90	1,800	15,000	40	0	140	6,000	0	0	21,180
354 90	AEDC	4T IMPROVEMENTS	BALC	11.1	75 W. CARLETON	1	7.0	3.1	3.5	3.5	0.0	0.4	148	20	1,773	404	32	23	459	4,877	13	0	36	574	0	0	5,500
386 86	AFATL	NK B2/B4 AIR	BALC	11.2	75 T. SHADON	1	24.0	12.9	6.8	4.0	0.0	3.0	732	72	907	898	71	51	1,020	9,260	27	0	77	2,240	0	0	11,600
385 86	AFATL	NK B2/B4 AIR	DYSC	11.3	75 C. ANDERSON	1	27.4	18.0	10.8	10.8	0.0	3.0	449	122	469	1,426	113	81	1,620	14,680	42	0	122	3,370	0	0	18,410
354 90	AEDC	4T IMPROVEMENTS	DYSC	11.4	75 W. CARLETON	1	2.7	1.7	0.8	0.8	0.0	0.0	283	14	54	92	7	5	105	1,115	6	0	17	1,400	0	0	2,531
388 76	AEDC	DYN STAB RESEARCH	DYSC	11.5	75 A. MANSFIELD	1	76.8	46.2	36.3	23.7	0.0	2.4	1,417	551	1,666	3,186	253	181	3,620	31,470	97	0	279	10,490	0	0	42,330
387 86	AFATL	NK B2/B4 AIR	NAGC	11.6	75 T. SHADON	1	66.4	44.7	30.8	14.0	0.0	1.2	1,215	79	947	4,048	322	230	4,600	41,860	121	0	346	10,170	0	0	52,490
389 14	ADTC	AIR-4 SEEK TELL	BALC	11.7	75 J. WHORIC	1	30.2	17.6	12.3	11.0	0.0	1.6	562	110	1,611	1,056	84	60	1,200	11,000	35	0	100	4,000	0	0	15,130
391 03	AFATL	HAST PROBE	PRSC	11.8	75 H. CUNNINGHAM	1	37.7	19.3	15.7	9.0	0.0	9.4	755	77	979	1,496	119	85	1,700	15,000	44	0	127	4,000	0	0	19,170
382-01	AFATL	F-15 FLOWFIELD	CTSC	12.1	75 R. HEIN	1	68.2	52.9	41.7	8.0	0.0	7.3	1,562	343	10,647	1,936	154	110	2,200	20,000	72	0	206	11,030	0	0	31,271
395 79	AFATL	MULTI WEAPON DESIGN	BALC	12.2	75 D. HILL	1	61.7	38.3	24.7	5.0	0.0	4.2	835	140	3,500	1,344	107	76	1,527	13,280	48	0	137	7,304	0	0	20,760
392 06	ASD	B-1B ESCAPE CAPSULE	NAGC	12.3	75 G. MATTASITS	1	59.5	41.6	33.4	15.0	0.0	2.9	1,117	300	4,662	1,848	147	105	2,100	18,000	63	0	180	9,000	0	0	27,240
394 12	AFFDL	I-24C	BALC	12.4	75 D. SMITH	1	26.4	18.4	13.2	8.0	0.0	0.0	645	171	2,185	792	63	45	900	8,000	28	0	80	4,000	0	0	12,100
394 12	AFFDL	I-24C	BALC	1.1	76 D. SMITH	1	8.3	7.3	5.0	1.0	0.0	0.0	264	42	546	264	21	15	300	3,000	14	0	40	3,000	0	0	6,050
396 60	AFFDL	INCREMENTAL GROWTH	BALC	1.2	76 G. GOWILLION	1	72.1	57.2	39.2	7.0	0.0	1.2	1,993	507	4,669	1,584	126	90	1,800	17,000	102	0	293	27,000	0	0	44,390
398 98	ARMY	DIRECT FIRE VEH.	BALC	1.3	76 P. YEAKLEY	1	45.3	31.1	20.2	12.5	0.0	1.7	1,035	176	2,975	1,408	112	80	1,600	14,000	65	0	186	14,000	0	0	28,250
397 11	AFATL	STUBBY MODB	BALC	1.4	76 H. KAUPP	1	71.5	60.6	43.0	8.5	0.0	2.4	1,856	478	6,938	2,376	189	135	2,700	25,000	123	0	353	28,000	0	0	53,470
402 A1	AEDC	HALL INTERFERENCE	PRSC	1.5	76 A. MANSFIELD	1	21.2	7.9	5.7	13.0	0.0	0.3	339	34	198	616	49	35	700	7,000	26	0	73	4,000	0	0	11,090
390 07	NASA	SHUTTLE PLUME TECH	NAGC	1.6	76 D. BAKER	1	58.8	34.8	4.6	23.0	0.0	0.0	247	20	40	1,848	147	105	2,100	20,000	53	0	153	3,000	0	0	23,200
401 A2	ADTC	F-111/GBU-15	CTSC	2.1	76 J. CARRAN	1	76.7	53.8	37.6	17.0	0.0	5.1	1,338	365	6,860	2,200	175	125	2,500	24,000	114	0	326	25,000	0	0	49,440
400 10	ASD	F-5/HAVERICK	BALC	2.2	76 H. CUNNINGHAM	1	37.1	26.1	10.9	10.0	0.0	5.3	616	116	1,082	3,344	266	190	3,800	34,000	102	0	293	10,000	0	0	44,390
400 10	ASD	F-5/HAVERICK	CTSC	2.3	76 H. CUNNINGHAM	1	51.5	39.2	29.8	3.0	0.0	5.0	925	89	16,052	3,872	308	220	4,400	45,000	142	0	406	16,000	0	0	61,540
408 A8	AFATL	CAPTIVE LOADS CORR	BALC	2.4	76 T. SHADON	1	31.2	20.6	8.7	6.0	0.0	4.2	501	63	562	880	70	50	1,000	9,439	41	0	118	8,200	0	0	17,800
408 A8	AFATL	CAPTIVE LOADS CORR	CTSC	2.5	76 T. SHADON	1	31.2	23.4	12.5	2.0	0.0	4.2	569	54	7,034	1,320	105	75	1,500	13,561	59	0	169	11,792	0	0	25,580
405 A7	AFFDL	HIGH ALPHA MAN RIS	BALC	3.1	76 D. SMITH	1	57.7	50.6	33.6	7.0	0.0	0.1	1,624	235	5,148	1,496	119	85	1,700	15,201	85	0	243	21,212	0	0	36,740
406 A0	AFFDL	AIR SLEW	NAGC	3.2	76 R. PAULK	1	44.0	24.5	18.0	17.5	0.0	1.0	726	39	499	3,784	301	215	4,300	42,000	123	0	353	11,000	0	0	53,470
393 08	AFATL	MANEUVERING ARM	BALC	3.3	76 G. MATTASITS	1	35.6	27.9	19.9	6.0	0.0	1.7	771	121	2,621	1,584	126	90	1,800	16,000	67	0	193	13,000	0	0	29,260
407 79	AFATL	MULTI WEAPON DESIGN	CTSC	3.4	76 D. HILL	1	53.7	42.3	30.0	8.5	0.0	2.9	1,367	182	5,696	2,050	163	117	2,330	19,840	85	0	245	16,930	0	0	37,100
409 67	NASA	SHUTTLE PLUME TECH	NAGC	4.1	76 C. ANDERSON	1	107.4	52.4	28.0	43.0	0.0	11.0	1,159	128	325	3,432	273	195	3,900	36,000	139	0	400	24,000	0	0	60,530
403 A3	AFATL	F-15 STAB & CONT	BALC	4.2	76 J. WHORIC	1	36.7	29.7	18.7	7.0	0.0	0.0	715	224	2,993	1,584	126	90	1,800	17,000	72	0	206	14,000	0	0	31,270
404 A6	ASD	F-4C/DART	BALC	4.3	76 E. WASHINGTON	1	21.8	15.6	11.1	6.0	0.0	0.2	395	126	1,577	1,320	105	75	1,500	13,000	46	0	133	7,000	0	0	20,180
410 A7	AFFDL	HIGH ALPHA MV TECH	BALC	4.4	76 D. SMITH	1	116.5	107.7	72.5	4.3	0.0	4.5	3,347	537	11,428	3,344	266	190	3,800	32,799	182	0	523	45,782	0	0	79,280
399 13	ASD	F-16 STORE SEP	CTSC	5.1	76 J. CARRAN	1	86.5	56.2	29.9	12.5	0.0	17.8	1,056	161	6,038	3,784	301	215	4,300	40,000	146	0	420	23,000	0	0	63,560
411 A4	AFATL	F-16 FLOWFIELD	CTSC	5.2	76 B. ALLEE	1	56.0	47.1	27.8	3.8	0.0	5.1	1,107	152	5,996	2,112	168	120	2,400	22,000	95	0	273	19,000	0	0	41,360
415 A5	AFATL	AERO INTERFERENCE	CTSC	5.3	76 G. GOWILLION	1	36.3	22.0	14.7	8.0	0.0	1.3	571	138	4,551	1,584	126	90	1,800	16,000	58	0	166	9,000	0	0	25,220
412 B5	ASD	F-15 SUPERS FUEL TANK	CTSC	5.4	76 R. HEIN	1	52.8	15.1	10.8	35.0	0.0	1.0	411	52	1,632	2,816	224	160	3,200	28,562	63	0	238	7,140	0	0	36,020
412 B5	ASD	F-15 SUPERS FUEL TANK	DYDC	5.5	76 R. HEIN	1	11.1	4.9	1.3	6.0	0.0	0.9	133	4	8	352	28	20	400	3,438	13	0	36	2,000	0	0	5,480
421 B1	ARMY	M422 PROJECTILE	NAGC	6.1	76 T. SHADON	1	34.2	17.1	15.7	17.0	0.0	0.1	747	251	10,573	2,816	224	160	3,200	31,000	104	0	300	14,000	0	0	45,400
416 B2	AEDC	4T IMPROVEMENTS	CTSC	6.2	76 D. HILL	1	37.9	23.9	14.0	12.0	0.0	2.0	648	112	3,196	1,144	91	65	1,500	12,000	51	0	147	10,000	0	0	22,190
414 B9	AFFDL	I-24C	BALC	6.3	76 D. SMITH	1	72.3	60.3	44.4	8.3	0.0	3.7	2,029	526	7,325	2,728	217	155	3,100	27,000	118	0	340	24,000	0	0	51,450
425 B0	AEDC	F-4C LATERAL STAB.	BALC	6.4	76 E. WASHINGTON	1	18.3	12.3	7.2	11.5	0.0	0.0	297	69	1,574	554	44	32	630	5,760	22	0	64	3,880	0	0	9,720
423 C1	AFFDL	AIR SLEW	BALC	6.5	76 J. WHORIC	1	51.9	33.7	19.8	10.0	0.0	8.2	988	169	2,937	1,672	133	95	1,900	18,000	74	0	213	14,000	0	0	32,280
427 C0	AFFDL	AIR SLEW	CTSC	7.1	76 D. HILL	1	33.7	17.4	13.8	13.0	0.0	3.3	487	38	5,020	1,408	112	80	1,600	15,000	51	0	147	7,000	0	0	22,190
428 B3	AFATL	F-111/NK82 AIR	CTSC	7.2	76 H. CUNNINGHAM	1	48.1	37.1	29.4	10.0	0.0	1.0	1,147	165	8,579	1,672	133	95	1,900	17,000	74	0	213	15,000	0	0	32,280
422 B0	AEDC	4T IMPROVEMENTS	CTSC	7.3	76 J. CARRAN	1	15.5	9.5	7.7	6.0	0.0	0.0	251	23	3,630	590	47	34	670	6,160	24	0	69	4,150	0	0	10,460
413 C2	AFFDL	AIR SLEW	BALC	7.4	76 E. WASHINGTON	1	26.0	14.5	9.8	9.0	0.0	2.5	478	94	1,537	2,024	161	115	2,300	20,000	58	0	166	5,000	0	0	25,220
426 B7	ASD	ASALR-MARTIN	BALC	7.5	76 P. YEAKLEY	1	42.0	23.8	15.9	17.0	0.0	1.2	616	152	1,498	1,760	140	100	2,000	18,000	63	0	180	9,000	0	0	27,240
419 B4	AFATL	NK B2/B4 AIR	BALC	7.6	76 C. ANDERSON	1	54.3	30.8	19.4	20.5	0.0	1.3	751	213	1,738	2,165	172	123	2,460	24,090	78	0	224	9,530	0	0	33,920
417 B4	AFATL	NK B2/B4 AIR	DYSC	7.7	76 F. PAULK	1	40.7	24.4	18.6	16.0	0.0	2.0	595	69	1,190	2,077	165	118	2,300	23,100	75	0	215</				

4T TEST STATISTICS DATA BASE

ITEMS IN THE DATABASE

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TEST PROJ A.F. SPONSOR	TITLE	TYPE PD	FY	P.E.	DOWNTIME							HOURS							COST (\$)									
					ENTR	OSH	UDN	ADH	I/R	SCHED	AEDC	MMH	OP.	ATP	CALSPAN	SUPPORT	OT	TOTAL	LABOR	MAT.	TRAV.	PSI	ELEC	COMP	OTHER	TOTAL*		
436 80	AEDC	4T IMPROVEMENTS	PRSC	7.8	76	C. ANDERSON	1	41.8	19.7	13.6	20.0	0.0	2.1	663	63	371	1,047	83	60	1,190	10,886	42	0	121	7,320	0	0	18,363
434 80	AEDC	4T IMPROVEMENTS	MISC	8.1	76	G. GONILLION	1	34.5	19.0	16.2	13.0	0.0	1.5	841	46	1,136	1,250	99	71	1,420	12,960	50	0	144	8,720	0	0	21,875
420 84	AFATL	NK 82/84 AIR	NASC	8.2	76	R. PAULK	1	37.0	16.9	14.9	13.5	0.0	5.6	490	23	10,325	1,463	132	95	1,890	18,500	60	0	172	7,320	0	0	26,052
430 C7	AFATL	SUPERS ROCKET LAUN	BALC	8.3	76	D. SMITH	1	54.4	30.6	20.1	23.0	0.0	0.8	764	248	3,067	1,998	159	114	2,270	21,070	77	0	221	12,160	0	0	33,528
433 80	AFATL	MANEUVR AIR-AIR	CTSC	8.4	76	G. MATTASITS	1	45.5	20.4	15.1	22.0	0.0	2.1	417	152	2,207	1,320	105	75	1,500	13,000	49	0	140	8,000	0	0	21,189
437 85	AFATL	SUPERS ROCKET LAUN	CTSC	8.5	76	H. KIBER	1	15.4	8.3	5.9	6.0	0.0	1.1	202	70	796	625	50	36	710	6,140	22	0	63	3,300	0	0	9,525
429 86	ASD	ASALM-MCDONALD	BALC	8.6	76	H. KAUPP	1	69.3	47.1	31.7	21.0	0.0	1.2	1,707	468	3,963	1,232	98	70	1,400	16,000	95	0	273	25,000	0	0	41,368
418 C3	AFATL	LB8 SEEKER HEAD	BALC	8.7	76	R. ELMWELL	1	30.2	20.5	15.3	7.0	0.0	2.7	672	211	2,710	1,496	119	85	1,700	15,000	53	0	153	8,000	0	0	23,207
439 80	AEDC	4T IMPROVEMENTS	DYSC	9.1	76	W. CARLETON	1	60.0	25.0	19.0	35.0	0.0	0.0	771	61	1,296	1,470	117	84	1,670	15,200	59	0	169	10,230	0	0	25,658
435 C9	AFBFL	FOREIGN ROCKET	CTSC	9.2	76	H. KIBER	1	44.2	34.3	24.6	8.6	0.0	0.3	757	325	5,448	1,760	140	100	2,000	20,000	77	0	220	13,000	0	0	33,296
441 E1	AFATL	MER/VER COMPARISON	CTSC	9.3	76	J. CARMAN	1	84.0	56.7	39.5	29.0	0.0	3.0	1,303	362	11,057	2,376	189	135	2,700	28,000	109	0	313	19,000	0	0	47,422
438 D1	ADTC	F-111/80U-15	CTSC	9.4	76	G. GONILLION	1	59.5	44.2	36.7	14.0	0.0	1.3	1,184	256	14,643	2,288	182	130	2,660	27,000	100	0	286	16,000	0	0	43,386
440 C8	SAMSO	MIRUTENAN INST PAY	PRSC	9.5	76	D. CANNILL	1	53.8	36.2	33.2	12.0	0.0	3.6	1,593	167	3,285	1,760	217	155	3,100	30,000	128	0	366	25,000	0	0	55,494
420 84	AFATL	NK 82/84 AIR	NASC	10.1	76	R. PAULK	1	50.2	24.1	20.4	25.0	0.0	1.1	679	34	415	2,279	181	130	2,390	25,310	82	0	235	10,010	0	0	35,637
443 8V	NAVY	FUEL AIR EXPLOSIVES	BALC	10.2	76	R. ELMWELL	1	61.3	47.6	34.7	10.0	0.0	3.7	1,367	389	6,103	1,760	140	100	2,000	19,000	86	0	246	18,000	0	0	37,332
444 D3	AFBFL	ADV AERO COMFIS	PRSC	10.3	76	J. WHORIC	1	118.6	87.4	61.9	19.0	0.0	4.7	3,247	381	4,896	5,436	434	310	6,200	60,000	267	0	766	55,000	0	0	116,033
445 E3	NASA	SOLID ROCKET BOOSTER	BALC	11.1	76	R. GUINN	1	17.6	8.1	4.9	7.5	0.0	2.0	252	40	605	1,144	91	65	1,300	11,000	32	0	93	3,000	0	0	14,126
434 8C	AEDC	4T IMPROVEMENTS	MISC	11.2	76	J. SUMN	1	1.3	1.3	1.3	0.0	0.0	0.0	75	22	543	106	8	6	120	1,040	5	0	14	1,000	0	0	2,058
436 C6	AFATL	F-16 FLOWFIELD	CTSC	11.3	76	B. ALLEE	1	91.8	58.7	40.5	26.0	0.0	6.1	1,687	276	10,013	2,640	210	150	3,000	27,000	114	0	326	22,000	0	0	49,440
442 79	AFATL	SUPERS ROCKET LAUN	CTSC	11.4	76	H. KIBER	1	16.3	11.5	6.6	4.5	0.0	0.3	165	55	745	695	55	40	790	6,860	25	0	70	3,700	0	0	10,655
449 8e	AFATL	MULTI WEAPON DESIGN	CTSC	11.5	76	D. HILL	1	48.3	26.3	21.4	11.0	0.0	11.0	723	104	4,951	1,470	117	84	1,670	14,160	63	0	181	13,076	0	0	27,475
443 E4	AFATL	ACTIVE LASER SEEKER	BALC	11.6	76	D. SMITH	1	49.1	27.3	20.2	19.0	0.0	0.0	849	222	1,591	1,760	140	100	2,000	19,000	67	0	193	10,000	0	0	29,260
448 E5	ADTC	F-4/FOREIGN ROCKET	BALC	11.7	76	J. HERMAN	1	24.0	7.7	5.9	12.0	0.0	7.1	245	52	752	1,144	91	65	1,300	13,000	37	0	107	3,000	0	0	16,144
447 89	AFBFL	ADV TECH WING	BALC	12.2	76	E. WASHINGTON	1	3.8	2.8	1.7	1.0	0.0	0.0	76	16	244	440	35	25	500	5,000	14	0	40	1,000	0	0	6,054
432 C5	ASD	F-16 FREE DROP	CTSC	12.3	76	J. CARMAN	1	91.5	58.8	32.6	27.0	0.0	5.7	2,099	207	3,232	2,992	238	170	3,400	32,000	125	0	360	22,000	0	0	54,485
432 C5	ASD	F-16 FREE DROP	DYDC	12.4	76	J. CARMAN	1	14.0	3.0	1.8	1.8	0.0	5.1	64	9	441	528	42	30	600	5,916	17	0	47	1,200	0	0	7,180
430 C7	AFATL	SUPERS ROCKET LAUN	BALC	12.5	76	D. SMITH	1	59.2	47.0	12.5	2.0	0.0	5.1	998	122	187	3,696	294	210	4,200	41,084	134	0	384	16,608	0	0	58,210
450 87	ADTC	LOW COST LIGHT MISS.	BALC	12.6	76	P. YEAKLEY	1	44.5	15.1	15.0	24.5	0.0	3.9	671	419	1,813	1,144	91	65	1,300	13,000	58	0	166	12,000	0	0	25,224
450 80	ADTC	LOW COST LIGHT MISS.	BALC	1.1	76.5	P. YEAKLEY	1	11.8	6.9	6.1	4.7	0.0	0.2	206	87	885	528	42	30	600	5,630	21	0	60	3,400	0	0	7,111
456 86	AFATL	ACTIVE LASER SEEKER	BALC	1.2	76.5	D. SMITH	1	27.3	21.2	14.4	5.0	0.0	1.1	632	121	2,026	1,258	100	72	1,430	13,400	51	0	145	8,400	0	0	21,996
451 E3	ADTC	UNGUIDED SUU-34	CTSC	1.3	76.5	G. GONILLION	1	47.5	26.3	22.5	14.5	0.0	6.7	835	216	4,062	1,954	155	111	2,220	20,850	79	0	226	13,150	0	0	34,225
451 F7	AFATL	MER/VER COMPARISON	BALC	1.4	76.5	R. HEIN	1	40.3	28.0	21.2	11.0	0.0	1.3	701	227	3,012	1,848	147	105	2,100	19,650	74	0	213	12,400	0	0	32,336
452 E6	ASD	F-4/NAVERICK	BALC	1.5	76.5	J. WRIGHT	1	51.9	38.5	15.1	12.0	0.0	15.0	663	197	1,278	1,311	104	75	1,490	14,000	50	0	100	10,940	0	0	25,184
460 K0	ASD	F-4/NAVERICK	MISC	1.6	76.5	D. HILL	1	3.4	3.4	2.5	0.0	0.0	0.0	82	21	392	238	19	14	270	2,540	9	0	27	1,460	0	0	4,036
452 E6	ASD	F-4/NAVERICK	CTSC	1.7	76.5	J. WRIGHT	1	130.0	77.0	67.1	14.0	0.0	7.6	2,254	167	33,076	5,834	464	332	6,630	62,300	236	0	676	39,200	0	0	102,411
458 F4	ASD	ASALM-MCDONALD	PRSC	2.1	76.5	H. KAUPP	1	31.6	9.6	6.9	19.0	0.0	3.0	400	60	368	774	62	44	880	8,300	31	0	90	5,200	0	0	13,621
464 K0	AEDC	4T IMPROVEMENTS	PRSC	2.2	76.5	H. KAUPP	1	3.3	3.3	3.0	0.0	0.0	0.0	165	24	124	264	21	15	300	2,820	13	0	37	2,720	0	0	5,599
459 F3	AFATL	GRID SUBSTANTIATION	CTSC	2.3	76.5	H. KIBER	1	131.4	81.6	67.0	26.0	0.0	23.8	2,376	451	20,013	5,826	463	331	6,620	62,150	235	0	675	39,150	0	0	102,210
462 83	AFBFL	ADV AERO COMFIS	BALC	2.4	76.5	J. WHORIC	1	66.4	56.6	32.9	9.0	0.0	0.8	1,770	292	4,546	2,860	228	163	3,250	30,500	115	0	331	19,200	0	0	50,146
455 E9	ASD	F-16 PROBE	PRSC	2.5	76.5	R. PAULK	1	60.5	29.6	12.9	24.5	0.0	5.9	727	104	633	1,126	90	64	1,280	12,000	45	0	130	7,500	0	0	19,675
461 E9	AEDC	4T IMPROVEMENTS	MISC	2.6	76.5	J. HERMAN	1	36.7	8.6	4.3	28.0	0.0	0.1	209	25	135	378	30	22	430	4,000	15	0	43	2,500	0	0	6,556
463 F8	ASD	F-16 STORE SEP	DYDC	3.1	76.5	G. MATTASITS	1	26.4	11.5	6.5	11.9	0.0	35.2	340	17	43	563	45	32	640	6,060	23	0	65	3,800	0	0	7,822
465 E2	AFATL	MER FREESTREAM	BALC	3.2	76.5	G. MATTASITS	1	200.7	127.0	80.5	35.4	0.0	3.0	2,556	256	16,991	6,996	557	398	7,950	74,700	28						

41 TEST STATISTICS DATA BASE

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DDMMTIME

MANHOURS

COST (\$)

TEST	PRD	A.F.	SPONSOR	TITLE	TYPE	PD	FY	P.E.	ENTR	OSH	UDH	ACH	I/R	SCHED	AEDC	NNH	OP	ATP	CALSPAN	SUPPORT	QT	TOTAL	LABOR	MAT.	TRAV.	PSI	ELEC	COMP	OTHER	TOTAL*
469	B4	AFATL	CLUSTERED AIRFIELD	BALC	1.5	77	C. ANDERSON	1	22.4	10.6	7.8	9.5	0.0	2.3	390	52	587	176	14	10	200	2,407	17	0	49	5,000	0	0	7,474	
468	EB	AFFDL	X-24C	BALC	1.6	77	E. WASHINGTON	1	72.2	59.2	41.6	10.5	0.0	2.5	2,051	419	5,921	2,332	186	133	2,650	27,000	130	0	373	29,000	0	0	56,503	
469	B4	AFATL	CLUSTERED AIRFIELD	DVSC	2.1	77	C. ANDERSON	1	34.8	11.0	8.4	22.0	0.0	1.8	320	15	372	264	21	15	300	2,593	16	0	47	4,500	0	0	7,157	
473	L0	AEDC	41 IMPROVEMENTS	DVSC	2.2	77	M. CARLETON	1	15.5	8.4	4.6	7.0	0.0	0.1	164	19	338	431	34	25	490	5,080	17	0	49	2,300	0	0	7,446	
471	B9	ASD	B-1B	BRDC	2.3	77	B. ALLEE	1	177.2	124.5	57.9	27.9	0.0	24.8	3,942	327	5,497	5,368	427	305	6,100	60,000	267	0	766	55,000	0	0	116,033	
472	F9	ASD	ASALM-MCDONALD	CTSC	2.4	77	J. CARMAN	1	49.3	36.2	21.4	3.8	0.0	6.3	1,207	107	9,952	2,200	175	125	2,500	26,000	100	0	286	17,000	0	0	43,386	
474	B1	AD	F-111/GBU-15	BRDC	3.1	77	G. GOMILLION	1	113.4	63.8	54.0	26.3	0.0	23.3	2,643	377	15,756	3,256	259	185	3,700	37,000	172	0	493	37,000	0	0	74,665	
470	B2	ADTC	F-111/GBU-15	BRDC	3.2	77	R. PAULK	1	109.0	73.5	47.4	22.7	0.0	12.8	2,248	387	12,093	3,080	245	175	3,500	35,000	153	0	440	31,000	0	0	66,593	
476	B8	AFATL	BANK-TO-TURN MISSILE	BALC	4.1	77	D. SMITH	1	54.3	40.6	34.0	9.0	0.0	4.7	1,482	328	3,325	2,464	196	140	2,800	28,000	114	0	326	21,000	0	0	49,449	
481	H9	ASD	ASALM	BALC	4.2	77	P. YEAKLEY	1	90.4	47.9	34.4	18.5	0.0	10.8	1,662	397	3,912	2,816	224	160	3,200	31,000	125	0	360	23,000	0	0	54,485	
482	H7	AFFDL	16T FLOWFIELD PROBE	PRSC	4.3	77	T. SHADON	1	18.3	7.2	5.6	8.6	0.0	0.1	285	26	776	1,144	91	65	1,300	13,000	39	0	113	4,000	0	0	17,153	
477	H5	AEDC	41 IMPROVEMENTS	HISC	4.4	77	J. HERMAN	1	18.0	6.3	4.2	9.5	0.0	2.2	269	13	121	396	32	23	450	4,670	20	0	56	3,770	0	0	8,516	
479	J1	AEDC	HIGH ALPHA INTER	BALC	4.5	77	R. QUINN	1	37.4	25.6	11.6	10.0	0.0	1.8	767	104	1,864	1,584	126	90	1,800	17,000	65	0	186	11,000	0	0	28,251	
480	H6	AEDC	41 IMPROVEMENTS	BALC	4.6	77	E. WASHINGTON	1	42.7	21.9	18.9	20.0	0.0	0.8	907	165	2,122	1,848	147	105	2,100	21,000	79	0	226	13,000	0	0	34,305	
484	B6	AFFDL	WING BODY FLOWFIELD	BRDC	5.1	77	R. KIBER	1	102.1	69.8	70.9	17.0	0.0	15.3	3,197	1,045	25,478	3,520	280	200	4,000	38,000	193	0	553	45,000	0	0	83,745	
486	J6	AFATL	STORE LOADS CORR	BALC	5.2	77	R. ELMELL	1	33.2	19.7	8.4	12.0	0.0	1.9	645	102	918	1,320	105	75	1,500	15,111	56	0	161	9,000	0	0	24,328	
486	J6	AFATL	STORE LOADS CORR	CTSC	5.3	77	R. ELMELL	1	21.2	16.9	10.5	2.0	0.0	1.9	526	77	1,844	1,584	126	90	1,800	16,889	61	0	175	7,400	0	0	26,525	
485	J5	AFATL	SUPERS ROCKET LAUN	BALC	5.4	77	D. CAHILL	1	30.5	11.4	6.4	16.6	0.0	2.5	422	44	545	1,144	91	65	1,300	13,000	44	0	127	6,000	0	0	19,171	
487	J4	AFATL	HSEER FREESTREAM	BALC	5.5	77	R. HEIM	1	41.1	29.8	13.1	11.0	0.0	0.3	563	149	2,363	2,024	161	115	2,300	23,000	72	0	206	8,000	0	0	31,278	
488	H2	ASD	B-1B	DVDC	5.6	77	D. HILL	1	88.4	60.1	13.8	26.1	0.0	2.2	1,064	96	1,263	3,080	245	175	3,500	36,000	118	0	340	15,000	0	0	51,458	
483	J2	ASD	F-16 FREE DROP	DVDC	6.1	77	J. WRIGHT	1	76.8	47.0	8.9	21.0	0.0	0.8	793	122	198	636	67	48	950	9,850	49	0	140	11,130	0	0	21,168	
491	L0	AEDC	41 IMPROVEMENTS	HISC	6.2	77	R. QUINN	1	60.0	17.4	7.2	42.0	0.0	1.0	378	71	866	678	54	39	770	7,980	31	0	88	5,300	0	0	13,399	
491	L0	AEDC	41 IMPROVEMENTS	BRDC	6.3	77	R. QUINN	1	62.3	15.9	12.0	45.5	0.0	0.5	501	56	3,927	1,126	90	64	1,280	13,270	47	0	135	7,030	0	0	20,482	
475	H3	AEDC	TRANSONIC WALL	HISC	6.4	77	J. WHORIC	1	137.0	51.0	38.0	81.0	0.0	3.1	1,626	342	790	3,555	283	202	4,040	41,900	150	0	431	22,840	0	0	65,321	
478	H5	AEDC	41 IMPROVEMENTS	PRSC	7.1	77	J. HERMAN	1	91.9	48.6	35.8	41.0	0.0	3.0	1,394	149	1,213	3,344	266	190	3,800	39,400	137	0	393	19,560	0	0	59,489	
478	H5	AEDC	41 IMPROVEMENTS	HISC	7.2	77	J. HERMAN	1	31.9	25.2	14.6	3.0	0.0	3.0	531	74	337	1,364	109	78	1,550	16,070	55	0	157	7,450	0	0	23,731	
475	H3	AEDC	TRANSONIC WALL	HISC	7.3	77	J. WHORIC	1	54.6	23.5	18.1	30.0	0.0	3.0	737	128	271	1,690	134	96	1,920	19,910	70	0	201	10,340	0	0	30,522	
491	L0	AEDC	41 IMPROVEMENTS	BRDC	7.4	77	R. QUINN	1	13.7	3.7	2.8	10.0	0.0	0.0	111	11	771	264	21	15	300	3,100	11	0	31	1,560	0	0	4,702	
490	K2	NAVY	F-1B	BRDC	8.1	77	G. MATTASITS	1	81.4	52.4	42.8	17.0	0.0	12.0	1,439	234	1,769	4,488	357	255	5,100	51,000	165	0	474	20,200	0	0	71,839	
497	J2	ASD	F-16 FREE DROP	DVDC	8.2	77	J. WRIGHT	1	21.7	4.1	1.1	17.5	0.0	0.1	9	21	79	106	8	6	120	1,240	3	0	9	1,300	0	0	1,382	
493	K4	ADTC	PIRANHA RINE	BALC	8.3	77	C. ANDERSON	1	27.5	12.4	10.2	11.0	0.0	3.1	360	100	1,126	1,408	112	80	1,600	17,170	51	0	148	5,000	0	0	22,369	
493	K4	ADTC	PIRANHA RINE	DVSC	8.4	77	C. ANDERSON	1	30.9	12.0	9.4	16.7	0.0	3.2	271	13	455	1,320	105	75	1,500	15,830	46	0	131	3,800	0	0	19,806	
500	L0	AEDC	41 IMPROVEMENTS	DVSC	8.5	77	D. CAHILL	1	2.2	1.4	1.9	0.0	0.0	0.5	44	4	71	167	13	10	190	1,970	6	0	17	620	0	0	2,613	
494	H4	AFATL	1/20 ILAAT	BALC	8.6	77	D. CAHILL	1	29.1	17.5	13.0	10.0	0.0	1.6	361	153	1,903	1,584	126	90	1,800	18,000	53	0	153	5,000	0	0	23,207	
500	L0	AEDC	41 IMPROVEMENTS	BALC	8.7	77	D. CAHILL	1	3.8	3.5	3.8	0.0	0.0	0.6	131	31	637	1,214	97	69	1,380	14,310	37	0	108	1,840	0	0	16,295	
492	L2	ASD	F-16 CTS	BALC	8.8	77	R. PAULK	1	37.5	18.8	12.6	15.0	0.0	2.5	465	158	1,732	1,320	195	75	1,500	16,610	52	0	151	6,000	0	0	22,813	
492	L2	ASD	F-16 CTS	CTSC	8.9	77	R. PAULK	1	24.5	20.7	15.5	1.0	0.0	4.0	499	110	3,847	1,936	154	110	2,200	24,390	73	0	209	7,000	0	0	31,672	
504	L0	AEDC	41 IMPROVEMENTS	CTSC	9.1	77	J. CARMAN	1	6.5	5.4	3.2	0.0	0.0	1.1	93	8	565	299	24	17	340	3,530	11	0	32	1,300	0	0	4,872	
469	J7	AD	F-111/DISPENSER	CTSC	9.2	77	A. HESKETH	1	83.8	53.2	42.5	11.0	0.0	19.6	1,332	207	8,751	2,464	196	140	2,800	29,000	111	0	320	19,000	0	0	48,431	
501	L6	ASD	YF-16	BRDC	9.3	77	R. KIBER	1	45.7	26.3	20.8	9.0	0.0	7.9	821	198	3,515	1,945	155	111	2,210	22,920	80	0	229	11,520	0	0	34,749	
498	J9	ASD	F-16 STORE SEP	CTSC	9.4	77	R. KIBER	1	203.5	145.8	121.6	6.5	0.0	51.2	3,771	341	18,925	5,720	455	325	6,500	70,000	285	0	819	53,000	0	0	124,105	
501	L6	ASD	YF-16	CTSC	10.1	77	R. KIBER	1	7.7	5.5	1.6	2.0	0.0	0.2	100	8	444	150	12	9	170	1,760	7	0	21	1,400				

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TEST PROJ A.F. SPONSOR	TITLE	TYPE PD	FY	P.E.	ENTR USN	UON	ADN	I/R	DOWNTIME		MANHOURS					COST (\$)						TOTAL						
									SCMED	AEDC	MM	OP	ATP	CALSPAN	SUPPORT	OT	TOTAL	LABOR	MAT.	TRAV.	PSI		ELEC	COMP	OTHER			
506 K3	ALC	CTIAJA CTS	CTSC	11.5	77	A. HESKETH	1	28.8	14.4	12.6	12.5	0.0	1.9	439	95	4,178	1,144	91	65	1,300	14,000	47	0	135	6,200	0	0	20,381
507 M1	AFFDL	F-111 WEAPONS BAY	PRSC	11.6	77	D. SMITH	1	35.2	19.2	12.8	15.0	0.0	1.0	487	310	1,263	1,408	112	80	1,600	19,000	60	0	173	7,000	0	0	26,233
503 L8	ADTC	COMB EFF BOMB	NABC	11.7	77	A. HANSFIELD	1	26.0	21.9	4.1	2.0	0.0	6.1	189	24	170	1,408	112	80	1,600	18,743	50	0	143	-2,700	0	0	21,636
510 L9	ADTC	TRD	NABC	11.8	77	T. SHADON	1	18.9	9.6	0.8	9.0	0.0	5.5	32	4	4	79	4	5	90	930	3	0	9	450	0	0	1,392
509 L9	ADTC	TRD	CTSC	11.9	77	B. ALLEE	1	75.0	54.0	33.9	11.5	0.0	4.2	1,061	222	10,469	3,168	252	180	3,600	37,330	121	0	348	14,890	0	0	52,689
512 L3	AFFDL	VEO WING	PRSC	12.1	77	R. HEIN	1	26.7	3.5	3.5	21.5	0.0	2.4	141	9	147	352	28	20	400	4,000	14	0	40	2,000	0	0	6,054
512 L5	AFFDL	VEO WING	BALC	12.2	77	R. HEIN	1	69.6	45.7	22.2	20.8	0.0	2.4	1,008	239	2,835	2,200	175	125	2,500	26,000	93	0	266	14,000	0	0	40,359
511 L9	ADTC	TRD	BALC	12.3	77	D. CAHILL	1	34.0	15.4	9.6	14.5	0.0	4.2	408	148	1,356	1,056	84	60	1,200	13,192	45	0	128	6,000	0	0	19,364
513 M4	AFATL	F-15 CARRIAGE LOADS	BALC	12.4	77	J. WIDRICH	1	24.0	12.5	9.6	10.0	0.0	1.5	327	146	1,897	1,232	98	70	1,400	18,000	52	0	150	4,500	0	0	22,702
514 L4	ASD	F-16 FREE DROP	DYDC	12.5	77	B. HATTASITS	1	73.0	49.1	15.0	21.4	0.0	2.5	882	113	123	2,024	161	115	2,300	25,000	86	0	246	12,000	0	0	37,332
510 L9	ADTC	TRD	NABC	12.6	77	T. SHADON	1	18.0	5.0	3.0	13.0	0.0	0.0	88	41	123	282	22	16	320	3,320	11	0	30	1,230	0	0	4,591
508 K6	ASD	F-16/HAVERICK	BALC	1.1	78	J. WRIGHT	1	82.9	59.2	25.7	13.5	0.0	17.2	1,074	345	3,079	1,074	85	61	1,220	14,000	63	0	180	13,000	0	0	27,242
508 K6	ASD	F-16/HAVERICK	CTSC	1.2	78	J. WRIGHT	1	123.7	90.7	73.6	16.0	0.0	10.0	2,475	1,263	28,584	3,062	244	174	3,480	39,000	176	0	506	37,000	0	0	76,682
515 M0	ASD	F-111 HAVERICK	BALC	1.3	78	J. CARMAN	1	84.7	59.8	19.4	22.0	0.0	1.9	967	269	3,215	880	70	50	1,000	11,000	60	0	173	15,000	0	0	26,233
515 M0	ASD	F-111 HAVERICK	CTSC	2.1	78	J. CARMAN	1	196.2	160.7	137.7	18.6	0.0	1.0	4,246	2,709	52,885	6,336	504	360	7,200	79,000	332	0	952	64,000	0	0	144,284
520 O2	AFATL	L6B FLUID GENERATOR	PRSC	2.2	78	E. WASHINGTON	1	15.8	1.8	0.9	14.0	0.0	0.0	29	12	120	352	28	20	400	5,000	13	0	36	400	0	0	5,448
520 O2	AFATL	L6B FLUID GENERATOR	MISC	2.3	78	E. WASHINGTON	1	14.7	12.7	3.0	2.0	0.0	0.0	163	45	400	1,232	98	70	1,400	17,500	47	0	134	2,600	0	0	20,280
510 L9	ADTC	TRD	NABC	2.4	78	T. SHADON	1	49.2	6.2	3.6	43.0	0.0	0.0	211	31	205	2,552	203	145	2,900	32,000	81	0	233	3,000	0	0	35,314
517 M7	AFFDL	SUPRS FUEL TANK	PRSC	3.1	78	P. YEAKLEY	1	123.0	81.5	37.8	35.0	0.0	6.5	1,570	314	3,848	3,872	308	220	4,400	49,000	165	0	473	22,000	0	0	71,638
519 M1	ASD	F-16 STORE SEP	DYDC	3.2	78	R. PAULK	1	57.0	43.5	12.1	13.0	0.0	1.8	762	103	197	1,638	83	59	1,180	13,600	75	0	216	18,800	0	0	32,691
519 M1	ASD	F-16 STORE SEP	CTSC	3.3	78	B. ALLEE	1	42.5	28.9	10.3	20.5	0.0	1.8	427	53	3,892	880	70	50	1,000	11,560	54	0	154	11,500	0	0	23,358
518 O4	AFATL	F-111 STAB & COM	BALC	4.0	78	C. ANDERSON	1	85.8	65.7	44.4	14.0	0.0	3.1	1,493	814	8,739	3,784	301	215	4,300	49,000	162	0	466	21,300	0	0	70,629
526 M5	ASD	ASALM	GRDC	4.1	78	R. QUINN	1	58.6	18.3	13.8	19.0	0.0	3.2	582	265	2,460	1,320	105	75	1,500	15,700	53	0	151	7,000	0	0	22,904
526 M5	ASD	ASALM	CTSC	4.2	78	A. HANSFIELD	1	21.7	14.9	11.7	4.0	0.0	3.2	377	66	4,039	1,144	91	65	1,300	13,000	44	0	127	6,000	0	0	19,171
527 O9	ASD	ASALM	BALC	4.3	78	R. TOLBERT	1	23.9	13.7	9.4	10.0	0.0	0.2	321	124	998	1,056	84	60	1,200	13,000	39	0	113	4,000	0	0	17,153
528 O5	AFATL	AERO DATA CORR	BALC	4.4	78	V. STEWART	1	65.3	13.8	11.2	23.1	0.0	0.5	327	215	2,166	1,520	105	75	1,500	16,900	50	0	144	4,700	0	0	21,794
531 O3	ARMY	PERSHING II VEH	DYSC	4.5	78	A. HANSFIELD	1	53.1	29.6	20.8	23.0	0.0	0.5	758	53	1,180	1,584	126	90	1,800	22,000	77	0	220	11,000	0	0	33,296
533 O0	AEDC	4T IMPROVEMENTS	DYSC	4.6	78	T. SHADON	1	8.0	8.0	4.1	0.0	0.0	0.0	148	15	131	352	28	20	400	4,610	16	0	45	2,220	0	0	6,891
525 O5	AFATL	AERO DATA CORR	DYSC	4.7	78	A. HANSFIELD	1	28.1	26.9	20.0	0.0	0.0	1.0	607	167	1,796	2,376	189	135	2,700	29,000	88	0	253	9,000	0	0	38,341
521 M9	NAVY	F-18 STORE SEP	CTSC	4.8	78	G. HATTASITS	1	36.6	18.8	16.0	14.5	0.0	10.4	589	110	3,745	880	70	50	1,000	10,200	44	0	127	8,800	0	0	19,171
521 M9	NAVY	F-18 STORE SEP	GRDC	4.9	78	G. HATTASITS	1	117.8	100.9	65.7	5.8	0.0	4.0	2,725	337	9,530	3,432	273	195	3,900	42,600	185	0	530	37,000	0	0	80,315
519 M1	ASD	F-16 STORE SEP	DYDC	5.1	78	R. PAULA	1	22.6	22.6	1.2	15.0	0.0	0.0	119	10	20	106	8	6	120	1,380	7	0	21	1,780	0	0	3,188
532 O0	AEDC	4T IMPROVEMENTS	GRDC	5.2	78	J. CARMAN	1	30.0	9.6	8.2	17.0	0.0	3.4	349	39	745	704	56	40	800	9,220	34	0	96	5,230	0	0	14,580
532 M0	AFFDL	TRANS FLOWFIELD	GRDC	5.3	78	M. KIBER	1	94.5	71.0	58.6	19.0	0.0	4.5	2,216	573	15,144	2,728	217	155	3,100	34,000	151	0	433	31,000	0	0	65,584
524 O8	AFATL	F-16 STORE SEP	GRDC	5.4	78	J. WRIGHT	1	66.6	48.5	25.7	17.0	0.0	1.1	903	341	2,367	2,288	182	130	2,600	31,000	102	0	293	13,000	0	0	44,395
530 O6	ADTC	L6B	BALC	6.1	78	R. ELWELL	1	47.5	34.9	29.4	9.0	0.0	3.6	1,353	387	4,165	1,848	147	105	2,100	23,000	97	0	280	19,000	0	0	42,377
522 M3	AFATL	F-16 LOADS	BALC	6.2	78	G. BOWILLION	1	42.2	24.1	17.7	13.0	0.0	5.1	692	264	2,812	4,312	343	245	4,900	57,000	155	0	446	10,000	0	0	67,602
533 O0	AEDC	4T IMPROVEMENTS	BALC	6.3	78	C. ANDERSON	1	8.4	2.5	2.6	0.0	0.0	0.1	85	22	420	220	18	13	250	2,880	10	0	28	1,270	0	0	4,187
529 M8	AFFDL	FORWARD SWEPT WING	BAPC	6.4	78	D. CAHILL	1	107.9	78.7	33.0	22.0	0.0	7.2	1,714	455	4,460	4,400	350	250	5,000	56,000	188	0	539	25,000	0	0	81,727
519 M1	ASD	F-16 STORE SEP	DYDC	7.1	78	R. PAULK	1	45.5	44.9	7.1	21.0	0.0	6.0	433	52	104	607	48	35	690	7,960	34	0	96	6,490	0	0	14,580
519 M1	ASD	F-16 STORE SEP	CTSC	7.2	78	B. ALLEE	1	38.4	24.0	9.6	5.0	0.0	5.0	345	25	1,830	818	65	47	930	10,720	37	0	106	5,170	0	0	16,033
536 M1	ASD	F-16 STORE SEP	GRDC	7.3	78	B. ALLEE	1	11.8	5.2	2.3	5.6	0.0	5.0	115	16	368	194	15	11	220	2,540	10	0	28	1,720	0	0	4,298
551 Z6	AFATL	F-16 STORE SEP	GRDC	7.4	78	G. HATTASITS	1	68.3	42.0	26.6	15.5	0.0	10.8	1,072	381	3,906	1,948	147	105	2,100	25,000	95	0	273	16,000	0	0	41,368
539 L5	ADTC	ANRAAH	GRDC	7.5	79	J. CARMAN	1	180.3	92.0	75.0	70.3	0.0	18.0	3,000	1,964	17,090	6,160	490	350	7,000	80,000	290	0	832	45,000	0	0	126,122
534 L1	ARMY	HYPERV ANTI ARMOR	NABC	8.1	78	A. HESKETH	1	68.2	39.2	25.1	20.5	0.0	8.3	920	377	4,238	2,464	196	140	2,800	32,000	107	0	306	14,000	0	0	46,413
550 Z5	NAVY	STANDARD MISSILE	BALC	8.2	78	C. ANDERSON	1	20.6	13.6	9.8	7.0	0.0	0.0	416	148	4,167	1,232	98	70	1,400	18,000	56	0	160	6,000	0	0	24,216
535 L0	AEDC	4T IMPROVEMENTS	MISC	8.3	78	R. HEIN	1	7.5	4.9	3.1	2.6	0.0	0.0	140	22	839	194	15	11	220	2,540	11	0	31	2,190	0	0	4,682
540 Z6	DYDC	HEL-1 TOW TARGET	BALC	8.4	78	R. HEIN	1	12.6	2.6	2.0	10.0	0.0	0.0	78	30	364	2,640	210	150	3,000	37,000	98	0	253	1,990	0	0	38,341
544 Z2	AFATL	A-10 CARRIAGE LOADS	BALC	8.5	78	T. SHADON	1	100.6	80.1	53.7	18.5	0.0	1.8	1,819	915	10,97												

4T TEST STATISTICS DATA BASE

ITEMS IN THE DATABASE
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TEST PROJ A.F.	SPONSOR	TITLE	TYPE PD	FY	P.E.	ENTR	OSH	UOM	ADN	I/R	DOWNTIME		MANHOURS					COST (\$)										
											SCHED	AEDC	OP	ATP	CALSPAN	SUPPORT	OT	TOTAL	LABOR	MAT.	TRAV.	PSI	ELEC	COMP	OTHER	TOTAL*		
548 21	AFATL	A-10 PERFORMANCE	BALC	9.1	78	P. YEAKLEY	1	59.0	48.0	27.8	10.0	0.0	1.0	1,060	466	6,773	2,376	189	135	2,700	31,000	109	0	313	16,000	0	0	47,422
547 14	AEDC	ADAPTIVE WALLS	MISC	9.2	78	D. SMITH	1	80.5	33.0	28.3	35.8	0.0	11.7	1,127	284	857	2,024	161	115	2,300	28,000	102	0	293	16,000	0	0	44,395
00	AEDC	4T IMPROVEMENTS	MISC	9.3	78	R. HEIN	1	8.3	8.2	7.4	0.0	0.0	0.1	307	57	620	634	50	36	720	8,300	30	0	86	4,600	0	0	13,016
546 12	AEDC	ADAPTIVE WALLS	MISC	9.4	78	D. SMITH	1	44.2	36.7	34.4	3.0	0.0	4.5	1,233	456	6,205	2,112	168	120	2,400	29,000	109	0	313	18,000	0	0	47,422
552 30	AFFDL	ADV FIGHTER CONCEPTS	BALC	9.5	78	R. ELWELL	1	20.7	9.6	6.5	10.0	0.0	1.1	261	105	1,003	1,056	84	60	1,200	13,000	39	0	113	4,000	0	0	17,153
545 23	AEDC	BODY FLAP INTERACT.	BALC	9.6	78	J. WHORIC	1	34.2	23.8	16.3	10.0	0.0	0.4	656	182	3,318	1,848	147	105	2,100	28,000	88	0	253	10,000	0	0	38,341
554 33	AFFDL	SCAMP	BALC	9.7	78	J. WRIGHT	1	68.1	47.8	25.9	10.0	0.0	11.3	1,102	302	4,106	2,112	168	120	2,400	30,000	107	0	306	16,000	0	0	46,413
558 16	AFATL	F-16 AIR LOADS	BALC	10.1	78	G. GOMILLION	1	150.4	129.0	80.4	11.5	0.0	12.6	2,938	1,443	13,748	3,960	315	225	4,500	53,000	234	0	673	46,000	0	0	101,907
557 24	AFFDL	FORWARD SWEPT WING	BAPC	10.2	78	D. CAHILL	1	128.8	86.4	45.6	25.0	0.0	2.1	2,455	354	4,886	3,080	245	175	3,500	38,700	186	0	534	41,500	0	0	80,920
557 24	NAVY	STANDARD MISSILE	MISC	11.0	78	D. CAHILL	1	15.0	12.4	3.9	2.0	0.0	2.9	289	158	207	264	21	15	300	3,300	16	0	45	3,500	0	0	6,861
553 17	AFFDL	FAVORABLE INTERF	BALC	11.1	78	C. ANDERSON	1	36.4	24.2	17.0	11.0	0.0	1.2	599	329	3,419	1,320	105	75	1,500	18,000	65	0	186	10,000	0	0	28,251
562 40	ASD	F-16 STORE SEP	DYDC	11.2	78	B. ALLEE	1	80.3	19.2	6.4	31.3	0.0	6.3	505	53	100	924	74	53	1,050	13,000	51	0	147	5,000	0	0	22,198
562 40	ASD	F-16 STORE SEP	CTSC	11.3	78	B. ALLEE	1	45.8	16.9	11.8	17.5	0.0	6.6	574	39	3,908	1,716	137	98	1,950	24,000	77	0	220	9,000	0	0	33,296
564 07	AFFDL	VED-WING	PRSC	11.4	78	R. HEIN	1	21.9	6.7	3.6	10.0	0.0	2.3	135	36	370	352	28	20	400	4,000	16	0	47	3,000	0	0	7,063
564 07	AFFDL	VED-WING	BALC	11.5	78	R. HEIN	1	117.1	94.3	47.7	23.4	0.0	2.3	2,333	558	7,854	4,224	336	240	4,800	57,600	222	0	637	38,000	0	0	96,458
538 20	AEDC	HIGH ALPHA ROLL DYN	MASC	11.6	78	J. COLLINS	1	73.3	19.0	11.6	54.0	0.0	0.3	369	31	205	3,696	294	210	4,200	52,000	135	0	386	6,000	0	0	58,521
561 27	AFFDL	AERO CONFIGURED HIS	BALC	11.7	78	V. STEWART	1	32.4	24.4	10.1	8.0	0.0	0.0	465	143	2,050	1,408	112	80	1,600	17,000	58	0	166	8,000	0	0	25,224
565 42	AFATL	F-15 LOADS	BALC	11.8	78	R. ELWELL	1	43.9	27.4	18.4	15.9	0.0	0.6	656	337	2,994	1,232	98	70	1,400	18,000	67	0	193	11,000	0	0	29,260
563 39	AFFDL	ADV HYPERSONIC	BALC	11.9	78	E. WASHINGTON	1	43.2	30.8	23.7	7.0	0.0	5.4	924	326	4,140	2,024	161	115	2,300	28,520	94	0	269	13,850	0	0	40,733
560 37	AFFDL	TOP MOUNTED INLET	GRDC	11.9	78	M. KIBER	1	190.8	128.2	81.6	50.2	0.0	12.4	3,319	2,281	7,497	4,224	336	240	4,800	56,000	258	0	739	35,000	0	0	111,997
559 10	AFATL	AIRCRAFT/WEAPON SEP	DYDC	12.1	78	B. ALLEE	1	51.2	22.1	5.9	19.0	0.0	7.5	498	140	275	6,248	497	355	7,100	82,000	209	0	599	8,000	0	0	90,808
566 31	AFATL	ILAAT I	BALC	12.2	78	T. SHADOW	1	71.4	53.0	38.9	15.0	0.0	3.4	1,522	389	5,949	2,640	210	150	3,000	36,000	142	0	406	25,000	0	0	61,548
563 39	AFFDL	ADV HYPERSONIC	BALC	12.3	78	E. WASHINGTON	1	33.3	20.7	11.8	12.0	0.0	0.6	487	201	2,553	1,003	80	57	1,140	13,140	47	0	136	7,300	0	0	20,624
570 41	AFATL	F-16 WEAPON SEP	GRDC	1.1	79	J. WRIGHT	1	62.3	28.1	21.1	25.0	0.0	9.2	774	382	3,073	1,443	115	82	1,640	19,200	111	0	320	28,800	0	0	48,431
570 41	AFATL	F-16 WEAPON SEP	CTSC	1.2	79	J. WRIGHT	1	14.0	13.4	9.7	0.0	0.0	0.6	356	48	2,422	669	53	38	760	8,800	51	0	147	13,200	0	0	22,198
572 45	ADTC	JP233	GRDC	1.3	79	R. TOLBERT	1	25.0	13.5	8.6	11.5	0.0	1.3	305	307	2,503	871	69	50	990	12,490	56	0	160	11,500	0	0	24,205
572 45	ADTC	JP233	CTSC	1.4	79	R. TOLBERT	1	39.9	37.0	27.6	0.0	0.0	1.6	967	272	5,074	2,798	223	159	3,180	40,130	178	0	510	36,470	0	0	77,288
571 38	ADTC	FAE II SEP	CTSC	1.5	79	A. HESKETH	1	39.7	23.2	18.1	16.0	0.0	0.3	567	187	6,385	1,725	137	98	1,960	23,800	104	0	300	21,200	0	0	45,404
571 38	ADTC	FAE II SEP	GRDC	1.6	79	A. HESKETH	1	11.8	11.8	3.1	0.0	0.0	0.2	101	76	651	299	24	17	340	4,100	18	0	52	3,700	0	0	7,870
567 32	AFATL	ILAAT II	BALC	1.7	79	H. KAUPP	1	75.7	52.0	25.3	22.7	0.0	0.7	623	328	4,549	2,728	217	155	3,100	40,000	151	0	433	25,000	0	0	65,584
576 87	ASD	F-16/A1W93	CTSC	2.1	79	R. PAULK	1	25.9	10.6	7.5	15.0	0.0	0.2	279	51	1,880	880	70	50	1,000	13,800	56	0	160	19,200	0	0	24,216
576 87	ASD	F-16/A1W93	GRDC	2.2	79	R. PAULK	1	0.7	0.7	0.6	0.0	0.0	0.1	22	11	146	88	7	5	100	1,100	4	0	13	800	0	0	1,917
574 47	ADTC	RK-82	BALC	2.3	79	J. WHORIC	1	49.9	30.3	17.9	17.3	0.0	2.3	693	281	3,827	2,200	175	125	2,500	32,000	135	0	386	26,000	0	0	58,521
577 88	ASD	F-111/PWVE TACK	CTSC	2.4	79	R. ELWELL	1	58.2	38.6	22.7	14.5	0.0	5.1	816	237	6,457	2,200	175	125	2,500	29,000	137	0	393	30,600	0	0	59,536
572 45	ADTC	JP233	CTSC	2.5	79	R. TOLBERT	1	13.6	3.6	1.7	10.0	0.0	0.0	64	21	392	176	14	10	200	2,520	11	0	33	2,410	0	0	4,974
579 48	ADTC	RK-82	DYSC	2.6	79	A. HANSFIELD	1	64.5	16.7	11.8	45.0	0.0	2.8	437	39	593	2,314	184	132	2,630	31,400	115	0	331	18,300	0	0	50,146
580 C2	AFFDL	F-111 DAMAGED	BALC	2.7	79	C. ANDERSON	1	39.5	29.4	10.1	10.0	0.0	0.1	470	212	2,471	1,848	147	105	2,100	26,000	102	0	293	18,000	0	0	44,395
581 C5	ASD	ASALH	BAPC	3.1	79	P. YEAKLEY	1	32.1	12.6	7.2	26.0	0.0	1.5	427	39	539	1,848	147	105	2,100	25,000	95	0	273	14,000	0	0	41,368
578 48	ADTC	RK-82	MASC	3.2	79	J. COLLINS	1	79.0	45.2	20.5	32.0	0.0	1.8	929	56	300	4,022	320	229	4,570	54,600	200	0	575	31,700	0	0	87,075
589 05	ARMY	HYPERV ANTI ARMOR	MASC	3.3	79	A. HESKETH	1	49.4	29.2	20.3	18.8	0.0	1.4	700	320	4,130	1,848	147	105	2,100	25,000	118	0	340	26,000	0	0	51,458
595 50	AEDC	4T IMPROVEMENTS	GRDC	3.4	79	J. CARMAN	1	44.1	21.5	19.1	16.0	0.0	10.6	868	164	12,042	2,103	167	120	2,390	28,300	144	0	412	33,600	0	0	62,456
592 C3	SANSD	AIR-LAUNCH NIM SYS	BALC	4.1	79	E. WASHINGTON	1	133.9	95.5	61.5	23.7	0.0	9.0	2,405	776	12,293	3,696	294	210	4,200	51,000	323	0	926	86,300	0	0	140,248
582 D2	ARMY	BOEING EXP SUB-MIS	BALC	4.2	79	D. CAHILL	1	25.6	10.4	6.1	15.0	0.0	0.2	249	66	1,111	1,408	112	80	1,600	19,000	65	0	186	9,900	0	0	28,251
585 D3	ARMY	BOEING EXP SUB-MIS	GRDC	4.3	79	R. PAULK	1	26.5	13.0	7.0	13.0	0.0	0.5	301	208	1,816	1,760	140	100	2,000	25,000	84	0	240	11,300	0	0	36,322
587 04	SANSD	F-15/NIMI VEHICLE	GRDC	4.4	79	M. KIBER	1	59.7	42.7	26.2	25.7	0.0	2.0	1,091	333	3,040	2,200	175	125	2,500	30,200	145	0	417	22,900	0	0	63,662
587 04	SANSD	F-15/NIMI VEHICLE	CTSC	4.5	79	M. KIBER	1	7.1	2.8	1.8	4.1	0.0	2.0	89	10	331	176	14	10	200	2,800	0	0	32	2,100	0	0	4,932
587 04	SANSD	F-15/NIMI VEHICLE	BALC	4.6	79	M. KIBER	1	29.2	18.1	9.5	8.6	0.0	3.0	465	122	1,775	968	77	55	1,100	12,800	300	0	178	11,900	0	0	27,178
590 C8	AFFDL	ADV WEAPON CARR	GRDC	5.1	79	J. WRIGHT	1	127.6	67.5	38.6	24.0	0.0	25.0	1,651	1,072	9,032	3,441	274	196	3,910	49,400	600	0	831	75,900	0	0	126

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ITEMS IN THE DATABASE.

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PAGE 7

TEST PROJ A.F. SPONSOR	TITLE	TYPE PD	FY	P.E.	DOWNTIME										MANHOURS					COST (\$)					TOTAL*			
					ENTR	OSH	DOM	ADM	I/R	SCHED	AEDC	MNN	OP	ATP	CALSPAN	SUPPORT	DT	TOTAL	LABOR	MAT.	TRAV.	PSI	ELEC	COMP		OTHER		
590 D0	AEDC	4T IMPROVEMENTS	GRDC	5.3	79	J. WRIGHT	1	2.5	2.5	2.5	0.0	0.0	0.0	183	4	35	273	22	16	310	3,600	100	0	53	4,400	0	0	8,153
597 D6	AFATL	ILAAT I	BALC	5.4	79	T. SHADOW	1	79.6	42.1	31.7	31.0	0.0	6.5	1,192	221	4,306	2,552	203	145	2,960	37,000	1,000	0	561	47,000	0	0	85,561
599 A1	AEDC	4T IMPROVEMENTS	CTSC	6.1	79	R. TOLBERT	1	49.4	5.4	3.5	44.0	0.0	0.0	133	42	2,292	722	57	41	820	10,400	0	0	97	4,300	0	0	14,797
584 B9	ARMY	SUBMISSILE DISP	BAPC	6.2	79	B. ALLEE	1	78.3	19.9	12.2	25.0	0.0	2.8	436	176	2,199	2,200	175	125	2,500	30,200	400	0	315	17,200	0	0	48,115
584 B9	ARMY	SUBMISSILE DISP	GRDC	6.3	79	B. ALLEE	1	46.6	10.8	7.1	32.0	0.0	2.8	291	135	1,172	1,285	102	73	1,460	17,500	300	0	184	10,100	0	0	28,084
584 B9	ARMY	SUBMISSILE DISP	CTSC	6.4	79	B. ALLEE	1	20.1	16.9	9.0	0.2	0.0	2.8	379	202	6,189	1,619	129	92	1,840	22,300	300	0	233	12,700	0	0	35,533
600 D9	AFFDL	FORWARD SWEPT WING	BALC	6.5	79	P. YEAKLEY	1	30.3	20.6	9.6	8.5	0.0	1.2	543	253	1,198	1,496	119	85	1,700	21,000	0	0	271	20,000	0	0	41,271
602 D7	AFATL	ILAAT II	BALC	6.6	79	H. KAUPP	1	63.6	34.5	22.4	21.0	0.0	8.1	1,012	209	2,686	2,376	189	135	2,700	36,000	0	0	488	38,000	0	0	74,488
604 A3	AEDC	AERO HYSTERESIS	BAPC	6.7	79	J. HERMAN	1	48.3	26.0	22.1	31.0	0.0	1.4	881	65	1,161	2,552	203	145	2,960	36,400	1,400	0	461	32,100	0	0	70,361
604 A3	AEDC	AERO DYSTE	BALC	7.1	79	H. KAUPP	1	29.7	15.4	8.9	11.0	0.0	4.2	364	77	1,191	948	77	55	1,100	14,600	600	0	185	12,900	0	0	28,285
598 B6	ADTC	F-16/JP233	GRDC	7.2	79	A. HESKETH	1	36.3	6.2	2.6	13.0	0.0	0.8	112	58	476	326	26	19	370	4,400	0	0	51	3,300	0	0	7,751
598 B6	ADTC	F-16/JP233	CTSC	7.3	79	A. HESKETH	1	26.2	21.6	16.4	20.0	0.0	0.9	551	161	6,482	2,050	163	117	2,330	27,400	0	0	317	20,600	0	0	48,317
596 B1	ADTC	NSER COEFFICIENTS	CTSC	7.4	79	R. PAULK	1	65.7	37.1	29.7	24.9	0.0	2.8	1,003	155	6,177	1,910	152	109	2,170	28,000	0	0	435	37,900	0	0	66,335
596 B1	ADTC	NSER COEFFICIENTS	GRDC	7.5	79	R. PAULK	1	28.4	23.3	18.1	3.2	0.0	2.8	625	565	4,125	1,170	93	67	1,330	17,000	0	0	284	23,000	0	0	40,284
603 B3	ADTC	NSER LOADS	BALC	7.6	79	G. GOMILLION	1	45.7	19.7	12.9	71.7	0.0	0.0	459	204	2,716	2,816	224	160	3,200	40,000	0	0	376	17,000	0	0	57,376
588 B2	ADTC	NSER FREESTREAM	BALC	7.7	79	R. HEIM	1	36.9	29.4	18.4	5.5	0.0	2.0	694	364	3,819	1,672	133	95	1,980	25,000	0	0	337	26,000	0	0	51,337
601 D1	ADTC	JP233 LOADS	BALC	8.1	79	D. VOPE	1	70.6	41.9	23.2	25.0	0.0	3.7	885	497	3,807	1,848	147	105	2,100	39,000	0	0	482	34,000	0	0	73,482
610 EB	AFFDL	TOP MOUNTED INLET	PRSC	8.2	79	H. KIBER	1	60.5	29.6	16.7	27.7	0.0	3.2	840	118	376	1,496	119	85	1,700	22,000	1,000	0	356	31,000	0	0	54,256
606 B0	NAVY	F-18	GRDC	8.3	79	R. TOLBERT	1	70.9	47.3	32.2	14.3	0.0	8.0	1,219	766	6,682	1,760	140	100	2,000	25,200	0	0	468	45,700	0	0	71,368
606 B0	NAVY	F-18	CTSC	8.4	79	R. TOLBERT	1	73.8	56.5	35.4	10.6	0.0	8.0	1,326	329	9,056	1,936	154	110	2,200	27,800	0	0	515	50,200	0	0	78,515
614 F3	SAMSO	WING VEHICLE II	BALC	8.5	79	P. YEAKLEY	1	99.2	70.7	34.7	18.7	0.0	9.8	1,900	301	3,572	3,168	252	180	3,600	46,000	2,000	0	772	69,000	0	0	117,772
583 C6	AFATL	F-15 FLDWFIELD	GRDC	9.1	79	H. KIBER	1	65.8	34.1	38.1	22.0	0.0	9.7	1,409	1,501	8,317	2,200	175	125	2,500	32,000	1,000	0	554	51,000	0	0	84,554
612 E9	AFFDL	ADV HYPERSONIC	BALC	9.2	79	D. CAHILL	1	38.9	26.9	18.6	12.0	0.0	0.0	705	222	3,185	1,584	126	90	1,800	25,000	0	0	363	30,000	0	0	55,363
615 C9	AFMIL	HUGHES DUCT ROCKET	BALC	9.3	79	J. WHORIC	1	76.3	56.6	27.3	21.7	0.0	0.0	1,430	334	3,802	2,992	238	170	3,400	48,000	1,000	0	667	52,000	0	0	101,567
593 C4	AFATL	F-111 LOADS	BALC	9.4	79	C. ANDERSON	1	76.2	58.2	33.4	15.0	0.0	3.0	1,430	501	6,627	4,928	392	280	5,600	73,000	2,000	0	884	59,000	0	0	134,884
611 E6	AFATL	F-16 STORE SEP	GRDC	9.5	79	A. HESKETH	1	48.5	23.9	14.7	22.9	0.0	8.5	608	295	2,430	1,496	119	85	1,700	23,000	0	0	295	21,700	0	0	44,995
611 E6	AFATL	F-16 STORE SEP	CTSC	9.6	79	A. HESKETH	1	23.6	15.4	7.7	0.0	0.0	1.4	277	70	1,080	792	63	45	930	11,300	0	0	152	11,200	0	0	23,252
619 F5	ARMY	SUBMISSILE DISP	GRDC	10.1	79	C. LAWRENCE	1	21.8	10.5	4.5	11.0	0.0	0.2	256	50	1,032	1,012	81	58	1,150	15,000	0	0	163	9,700	0	0	24,563
619 F5	ARMY	SUBMISSILE DISP	CTSC	10.2	79	C. LAWRENCE	1	1.4	1.3	0.6	0.0	0.0	0.2	33	6	132	132	11	8	150	1,800	0	0	20	1,200	0	0	3,020
618 E5	ADTC	ANRAAM	CTSC	10.3	79	R. PAULK	1	27.8	4.3	3.1	23.5	0.0	1.3	123	13	432	396	32	23	450	5,700	0	0	77	6,000	0	0	11,777
612 E5	ADTC	ANRAAM	BALC	10.4	79	R. PAULK	1	92.3	44.1	16.0	46.5	0.0	1.4	791	141	1,214	2,024	161	115	2,300	29,500	0	0	396	30,500	0	0	60,396
613 E2	AFATL	A-10 PYLON VERIF.	GRDC	10.5	79	B. ALLEE	1	72.8	31.0	11.1	40.0	0.0	0.7	523	213	1,948	1,936	154	110	2,200	28,400	700	0	309	16,400	0	0	45,600
613 E2	AFATL	A-10 PYLON VERIF.	CTSC	10.6	79	B. ALLEE	1	5.0	6.0	2.6	0.0	0.0	0.8	87	11	818	458	36	26	520	5,700	200	0	71	3,500	0	0	10,771
624 A1	AEDC	4T IMPROVEMENTS	GRDC	10.7	79	C. LAWRENCE	1	24.7	7.7	4.6	17.0	0.0	0.0	147	44	218	950	76	54	1,080	13,400	0	0	125	5,600	0	0	19,125
617 E4	ADTC	ANRAAM	GRDC	10.8	79	J. WRIGHT	1	155.3	72.2	53.7	48.6	0.0	3.9	2,159	1,009	9,173	4,761	379	271	5,410	73,000	0	0	1,076	90,000	0	0	164,076
616 E4	ADTC	ANRAAM	CTSC	11.1	79	J. WRIGHT	1	6.5	2.8	2.4	2.0	0.0	4.0	94	16	518	211	17	12	240	3,200	0	0	46	3,800	0	0	7,246
616 E4	ADTC	ANRAAM	BALC	11.2	79	T. SHADOW	1	91.0	33.2	23.3	53.1	0.0	5.0	1,045	339	3,722	2,068	165	118	2,350	30,700	0	0	460	39,000	0	0	70,260
622 F7	ADTC	ANRAAM	BALC	11.3	79	E. WASHINGTON	1	119.1	93.6	53.6	25.5	0.0	3.0	2,549	538	10,144	3,520	280	200	4,000	52,000	0	0	1,016	102,900	0	0	155,916
620 E0	AFATL	F-16 LOADS	BALC	11.4	79	G. GOMILLION	1	45.3	30.6	16.7	13.0	0.0	1.7	707	321	3,533	1,690	134	96	1,920	24,230	1,000	0	342	25,500	0	0	52,232
621 F9	AFFDL	ANECS II	GRDC	11.5	79	D. VOPE	1	91.9	20.3	62.9	39.3	0.0	1.2	2,829	3,314	24,097	4,312	343	245	4,900	64,000	0	0	1,168	113,000	0	0	178,168
621 F9	AFFDL	ANECS II	BAPC	11.6	79	D. VOPE	1	25.2	6.2	3.9	18.0	0.0	3.5	276	26	219	264	21	15	300	4,000	0	0	73	7,000	0	0	11,073
626 F6	ADTC	ANRAAM	GRDC	12.1	79	R. TOLBERT	1	40.3	27.0	14.2	21.8	0.0	0.9	694	297	2,628	1,918	153	109	2,180	24,200	0	0	335	26,600	0	0	51,135
618 E5	ADTC	ANRAAM	GRDC	12.2	79	R. PAULK	1	61.8	31.1	23.6	26.6	0.0	4.1	1,166	778	9,067	3,036	242	173	3,450	43,700	0						

41 TEST STATISTICS DATA BASE

ITEMS IN THE DATABASE
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01-Dec-86

TEST PROJ	A.F. SPONSOR	TITLE	TYPE	PD	FY	P.E.	DOWNTIME					MANHOURS					COST. (\$)												
							ENTP	OSH	UDM	ADM	I/R	SCHED	AEDC	MNH	SP	ATP	CALSPAN	SUPPORT	CT	TCTAL	LABOR	MAT.	TRAV.	PSI	ELEC	COMP	OTHER	TOTAL*	
627	FB	ADTC	ANRAAM	BALC	2.1	80	V. STEWART	1	59.6	36.4	19.8	21.0	0.0	1.1	1,070	256	3,926	2,464	196	140	2,800	36,000	1,000	0	607	47,000	8,226	0	92,654
623	FO	AFFDL	TRANS FLOW STORE	GRDC	2.2	80	A. HESKETH	1	97.7	47.8	33.5	31.0	0.0	19.7	1,662	567	10,907	3,142	250	179	3,570	46,400	1,660	0	902	74,660	10,863	0	134,365
623	FO	AFFDL	TRANS FLOW STORE	BALC	2.3	80	A. HESKETH	1	21.0	12.3	6.9	7.9	0.0	0.0	382	54	565	642	51	37	730	9,600	340	0	186	15,450	2,780	0	28,506
639	F2	AFATL	SPER	GRDC	2.4	80	J. CARMAN	1	19.2	4.3	3.6	13.1	0.0	1.0	123	109	1,020	590	47	34	670	7,400	0	0	105	5,000	572	0	15,477
639	F2	AFATL	SPER	CTSC	2.5	80	J. CARMAN	1	5.5	5.3	3.7	0.0	0.0	0.0	130	20	994	730	58	42	630	11,600	0	0	126	6,000	1,198	0	18,924
636	69	AFATL	DIST LOADS	PRSC	2.6	80	T. SHADOW	1	59.6	25.7	25.0	30.0	0.0	3.9	928	109	1,039	2,904	231	165	3,300	43,300	870	0	612	43,300	5,655	0	93,890
640	66	ADTC	ANRAAM	BALC	3.1	80	D. VORE	1	40.5	16.3	9.7	24.0	0.0	15.6	446	92	1,004	845	67	48	960	13,300	120	0	223	17,390	3,584	0	34,627
639	66	ADTC	ANRAAM	GRDC	3.2	80	D. VORE	1	71.8	94.1	70.1	20.0	0.0	0.0	1,258	511	6,460	3,546	282	202	4,030	56,900	870	0	900	56,140	21,267	0	136,077
639	66	ADTC	ANRAAM	CTSC	3.3	80	D. VORE	1	1.3	1.3	0.9	0.0	0.0	0.0	35	21	753	97	8	6	110	1,500	10	0	23	1,560	294	0	3,366
625	80	SAMSD	MINI VEHICLE	PRSC	3.4	80	J. HERMAN	1	27.3	27.3	0.8	25.6	0.0	0.0	40	?	11	2,200	175	125	2,500	36,000	0	0	269	1,790	6,170	0	44,229
647	61	ASD	F-15/PEACE FOX	DYDC	3.5	80	R. PAULK	1	37.0	8.0	1.8	28.7	0.0	0.7	159	11	26	396	32	23	450	6,000	0	0	76	4,000	1,808	0	11,884
647	61	ASD	F-15/PEACE FOX	CTSC	3.6	80	R. PAULK	1	42.3	25.9	9.9	16.0	0.0	0.0	433	89	3,224	2,156	172	123	2,450	33,000	0	0	419	22,000	5,853	0	61,272
648	H2	BMD	F-14/PEDRO RECRUIT	BALC	3.7	80	R. TOLBERT	1	42.3	25.8	14.2	15.2	0.0	1.3	623	488	2,131	1,690	134	96	1,920	24,900	1,130	0	396	28,900	5,631	0	61,157
648	H2	BMD	F-14/PEDRO RECRUIT	CTSC	4.1	80	R. TOLBERT	1	24.0	5.5	6.3	16.8	0.0	3.9	305	58	2,722	748	60	43	850	11,000	500	0	175	12,800	1,243	0	25,718
648	H2	BMD	F-14/PEDRO RECRUIT	GRDC	4.2	80	R. TOLBERT	1	13.1	8.9	4.6	2.0	0.0	0.0	214	35	160	554	44	32	630	8,100	370	0	128	9,360	2,011	0	19,910
625	80	SAMSD	MINI VEHICLE	PRSC	4.3	80	J. HERMAN	1	27.0	27.0	7.7	16.0	0.0	0.0	280	63	238	871	69	50	990	13,980	0	0	175	12,500	6,102	0	32,757
637	69	AFATL	DIST LOADS	BALC	4.4	80	T. SHADOW	1	29.9	9.1	3.9	18.0	0.0	2.8	178	20	144	440	35	25	500	6,700	140	0	95	6,700	2,057	0	15,691
649	80	AEDC	41 IMPROVEMENTS	GRDC	4.5	80	D. SMITH	1	46.6	17.1	16.7	29.5	0.0	2.0	754	196	6,593	2,165	172	123	2,460	36,700	0	0	461	33,200	3,865	0	74,226
635	H5	ADTC	MSR LOADS	BALC	4.6	80	D. SMITH	1	44.3	22.2	13.4	14.0	0.0	2.6	540	212	2,584	1,936	154	110	2,200	32,000	0	0	409	25,000	5,017	0	62,426
660	J3	AFATL	F-16 LOADS	BALC	4.7	80	G. GOWILLION	1	32.9	23.7	17.5	2.0	0.0	7.2	762	480	4,386	1,954	155	111	2,220	31,560	1,000	0	492	34,000	5,356	0	72,408
639	J4	ADTC	ANRAAM	BALC	5.1	80	E. WASHINGTON	1	92.5	60.1	33.6	25.7	0.0	6.7	1,613	419	8,391	2,904	231	165	3,300	42,000	2,000	0	812	72,000	13,583	0	130,394
654	H6	AFATL	LOW ALT DISPENSER	BALC	5.2	80	D. HODGES	1	61.2	43.5	21.8	17.0	0.0	0.7	762	410	4,386	2,464	196	140	2,800	38,000	1,000	0	581	42,000	9,831	0	91,412
657	J0	AD	F-16/JP233	GRDC	5.3	80	B. ALLEE	1	16.0	4.0	3.4	11.0	0.0	3.0	128	76	1,292	880	70	50	1,000	15,900	0	0	177	8,000	904	0	24,981
658	J0	AD	F-16/JP233	CTSC	5.4	80	B. ALLEE	1	10.8	3.3	2.5	7.5	0.0	0.0	88	28	1,271	282	22	16	320	4,520	0	0	102	3,930	746	0	9,298
632	62	SAMSD	MINI VEHICLE	GRDC	5.5	80	E. WASHINGTON	1	60.0	41.8	23.0	11.3	0.0	0.7	878	515	3,937	2,490	198	142	2,830	40,500	760	0	629	45,100	9,447	0	96,427
633	62	SAMSD	MINI VEHICLE	BALC	6.1	80	E. WASHINGTON	1	47.0	27.7	7.1	19.0	0.0	0.5	438	106	1,226	786	61	44	870	12,500	240	0	191	13,900	6,266	0	33,092
653	H4	NAVY	AV-8B	GRDC	6.2	80	A. HESKETH	1	54.6	29.1	20.8	28.0	0.0	21.0	835	1,071	12,140	1,144	91	65	1,300	17,900	0	0	418	37,800	6,577	0	62,694
653	H4	NAVY	AV-8B STORE SEP	CTSC	6.3	80	A. HESKETH	1	174.2	148.7	106.5	2.0	0.0	0.0	4,420	920	30,366	5,896	469	335	6,700	93,100	0	0	2,176	197,200	33,606	0	326,082
651	63	SAMSD	MINI VEHICLE	BALC	6.4	80	R. HEIM	1	84.1	46.7	27.9	27.0	0.0	10.4	1,264	273	3,028	4,048	322	230	4,600	65,000	1,000	0	858	56,000	10,554	0	133,412
646	64	SAMSD	MINI VEHICLE	BALC	7.1	80	G. GOWILLION	1	114.5	81.8	45.6	27.9	0.0	4.8	1,975	565	9,842	2,992	238	170	3,400	50,000	2,000	0	1,043	88,000	18,487	0	159,530
657	J0	AD	F-16/JP233	GRDC	7.2	80	B. ALLEE	1	19.2	5.0	1.9	14.2	0.0	2.5	100	24	405	211	17	12	240	3,390	0	0	52	4,460	1,130	0	9,032
658	J0	AD	F-16/JP233	CTSC	7.3	80	B. ALLEE	1	21.6	18.1	10.1	1.0	0.0	0.0	454	124	5,030	1,144	91	65	1,300	18,360	0	0	255	20,266	4,091	0	42,965
658	H0	AEDC	41 IMPROVEMENTS	CTSC	7.4	80	J. CARMAN	1	3.3	3.3	3.0	0.0	0.0	0.0	96	9	427	387	31	22	440	6,600	0	0	77	5,000	746	0	12,422
663	J6	NAVY	F-18	GRDC	7.5	80	C. LAWRENCE	1	86.8	57.4	33.4	22.0	0.0	4.7	1,424	752	6,857	2,913	232	166	3,310	47,800	0	0	821	67,600	12,972	0	129,192
663	J6	NAVY	F-18	CTSC	7.6	80	C. LAWRENCE	1	24.3	23.3	13.4	0.0	0.0	3.7	529	123	6,464	1,170	93	67	1,330	19,200	0	0	329	27,100	5,266	0	51,895
630	F6	ADTC	ANRAAM	GRDC	8.1	80	R. TOLBERT	1	92.8	48.0	44.1	31.6	0.0	13.2	1,749	876	13,669	3,256	259	185	3,700	52,000	0	0	1,036	79,000	10,848	0	141,884
639	66	ADTC	ANRAAM	GRDC	8.2	80	D. VORE	1	87.5	57.7	38.9	23.0	0.0	6.8	1,459	760	9,646	4,400	350	250	5,000	70,600	0	0	896	65,120	13,040	0	149,650
665	K6	AD	MAN/ERAN	BALC	8.3	80	J. WHORIC	1	35.7	19.2	9.7	16.5	0.0	0.0	357	168	2,298	1,672	133	95	1,900	28,000	0	0	317	16,000	4,339	0	46,650
667	J2	AD	F-16/JP233/56-357	BALC	8.4	80	V. STEWART	1	74.4	46.3	19.2	26.0	0.0	2.1	869	501	5,194	2,174	173	124	2,470	34,880	1,000	0	565	38,790	10,464	0	85,689
660	J3	AFATL	F-16 LOADS	BALC	8.5	80	G. GOWILLION	1	11.4	7.5	3.7	3.9	0.0	0.0	167	73	781	422	34	24	480	6,780	0	0	94	7,450	1,695	0	16,019
669	K2	AD	F-16/MSR	BALC	8.6	80	G. GOWILLION	1	33.3	25.8	14.8	2.6	0.0	4.9	635	249	2,899	1,144	91	65	1,300	18,000	1,000	0	330	28,000	5,831	0	53,161
667	J2	AD	F-16/JP233/56-357	BALC	8.7	80	V. STEWART	1	12.0	4.5	2.7	7.5	0.0	0.0	110	53	549	308</											

4T TEST STATISTICS DATA BASE

ITEMS IN THE DATABASE
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01-Dec-86

DOWNTIME

HOURS

COST (\$)

PAGE 9

TEST PROJ	A.F.	SPONSOR	TITLE	TYPE	PD	FY	P.E.	ENTR	OSH	UOH	ADM	I/R	SCHED	AEDC	MMH	OP	ATP	CALSPAN	SUPPORT	DT	TOTAL	LABOR	MAT.	TRAV.	PSI	ELEC	COMP	OTHER	TOTAL*	
662	J8	ASD	F-16/NATO STORE	GRDC	10.2	80	R. PAULK	1	50.8	33.9	16.4	14.0	0.0	4.7	691	190	2,567	1,954	153	111	2,220	32,000	0	0	490	36,000	7,661	0	76,151	
677	K8	AEDC	4T IMPROVEMENTS	MISC	10.3	80	J. CARMAN	1	115.6	82.1	40.3	36.1	0.0	3.4	1,759	839	29,864	4,312	343	245	4,900	74,000	13,000	0	1,089	78,000	18,555	0	184,644	
662	J8	ASD	F-16/NATO STORE	DYDC	11.1	80	R. PAULK	1	60.2	37.7	10.0	10.0	0.0	2.5	783	96	96	1,188	95	68	1,350	19,500	0	0	298	21,900	8,520	0	50,218	
664	J6	NAVY	F-18	DYDC	11.2	80	C. LAWRENCE	1	39.2	28.4	5.6	10.0	0.0	0.8	436	67	67	493	39	28	560	8,000	0	0	137	11,300	6,418	0	25,856	
681	L5	ASD	F-15/PEACE FOX II	CTSC	11.3	80	R. PAULK	1	41.2	22.2	9.3	19.0	0.0	0.0	479	76	3,376	1,056	84	60	1,200	19,000	1,000	0	310	21,000	5,017	0	46,327	
676	K3	ASD	CMCA FLOWFIELD	GRDC	11.4	80	A. HESKETH	1	116.7	60.4	31.2	35.0	0.0	1.3	1,401	562	10,530	4,488	357	235	5,100	76,000	1,000	0	1,049	62,000	13,650	0	153,700	
678	LD	AD	F-16/WASP	BALC	11.5	80	G. SOMILLION	1	42.1	23.5	10.9	18.0	0.0	0.6	636	248	2,110	2,816	224	160	3,200	40,000	0	0	508	30,000	5,311	0	75,819	
682	LD	AD	NASP-BOEING	BALC	11.6	80	G. SOMILLION	1	5.2	3.4	2.3	1.8	0.0	0.0	96	45	426	352	28	20	400	5,000	0	0	73	4,000	768	0	9,841	
678	ND	AEDC	4T IMPROVEMENTS	BALC	11.7	80	G. SOMILLION	1	10.3	5.0	3.5	5.3	0.0	0.0	132	56	479	440	35	25	500	7,700	0	0	96	6,900	1,130	0	15,826	
638	68	USAF	FTD MISSILE	DYSC	11.8	80	M. CHANEY	1	38.7	42.3	31.3	30.0	0.0	3.7	1,253	72	412	5,368	427	305	6,100	88,000	1,000	0	1,109	56,000	9,560	0	155,669	
656	H7	USAF	FTD MISSILE	DYSC	12.1	80	F. CYRAN	1	55.8	20.5	12.3	23.5	0.0	11.8	505	35	189	1,390	111	79	1,580	23,310	0	0	303	22,540	4,633	0	50,786	
608	67	USAF	AERO MISSILE	BALC	12.2	80	C. ANDERSON	1	73.6	35.8	22.7	23.1	0.0	14.7	923	352	5,286	2,992	238	170	3,400	51,000	2,000	0	627	41,000	8,091	0	102,718	
673	L3	AEDC	4T IMPROVEMENTS	CTSC	12.3	80	R. TOLBERT	1	61.0	7.0	4.3	34.0	0.0	7.9	161	24	854	3,872	308	220	4,400	68,000	0	0	495	7,000	1,582	0	77,077	
680	J9	ADTC	ANRAAM	BALC	12.3	80	D. VORE	1	43.4	30.7	14.6	30.3	0.0	0.0	716	227	2,052	1,760	140	100	2,000	29,500	700	0	380	27,100	6,938	0	64,619	
679	J9	ADTC	ANRAAM	GRDC	12.4	80	D. VORE	1	72.3	34.2	27.9	32.6	0.0	3.0	1,042	378	3,885	3,344	266	190	3,800	56,500	1,300	0	728	51,900	7,279	0	118,158	
687	L9	C278	AD	NASP FREESTREAM	BALC	1.2	81	D. SMITH	1	43.4	24.5	13.8	16.3	0.0	2.6	687	158	3,259	1,720	160	110	1,990	29,000	1,000	0	429	35,000	3,036	0	144,302
683	10	C355	AEDC	4T IMPROVEMENTS	BRDC	2.1	81	J. CARMAN	1	32.3	9.7	6.9	21.1	0.0	1.5	323	73	586	1,100	650	410	2,160	32,000	0	0	304	14,000	2,148	0	48,452
642	66	C131	ADTC	ANRAAM	BALC	2.2	81	V. STEWART	1	62.2	26.1	9.3	36.1	0.0	0.0	381	103	1,082	8,810	1,550	1,250	10,810	162,000	0	0	1,201	20,000	8,499	0	191,701
695	LO	C001	AD	F-16/WASP/SBU LOADS	BALC	2.3	81	S. SOMILLION	1	83.2	37.7	28.6	35.0	0.0	10.5	1,117	547	5,654	5,920	640	630	7,190	104,000	2,000	0	1,082	58,000	7,659	0	172,741
686	H1	C002	ARMY	PLRS	PRSC	2.4	81	D. HODGES	1	37.4	20.4	10.1	17.0	0.0	0.0	468	153	569	1,910	240	60	2,210	31,000	1,000	0	370	24,000	2,615	0	58,985
685	NO	C003	AFATL	DISCO VERIF.	BALC	2.5	81	H. KAUPP	1	81.4	21.1	6.5	51.0	0.0	5.0	378	118	1,397	1,810	180	170	2,160	32,800	600	0	327	16,100	2,312	0	52,138
685	NO	C003	AFATL	DISCO VERIF.	GRDC	2.6	81	B. ALLEE	1	77.6	16.0	8.0	69.0	0.0	4.9	388	211	2,016	2,220	220	280	2,640	40,400	700	0	402	19,800	2,844	0	64,146
685	NO	C003	AFATL	DISCO VERIF.	CTSC	2.7	81	B. ALLEE	1	22.6	15.5	7.7	7.1	0.0	1.9	324	15	57	2,140	210	200	2,550	38,800	700	0	387	19,100	2,737	0	61,723
694	Y1	C005	AEDC	4T IMPROVEMENTS	DYSC	3.1	81	S. COULTER	1	104.3	27.4	22.2	74.8	0.0	2.1	811	50	955	3,570	1,900	590	6,660	88,000	4,000	0	884	42,900	6,258	0	141,142
679	L1	C004	AD	NASP-BOEING	GRDC	3.2	81	C. LAWRENCE	1	49.4	17.8	12.1	28.6	0.0	3.3	467	196	2,898	1,720	230	330	2,280	35,300	700	0	409	25,900	2,891	0	55,199
699	L1	C004	AD	NASP-BOEING	BALC	3.3	81	C. LAWRENCE	1	27.0	12.5	4.7	12.2	0.0	2.0	231	99	667	670	90	130	990	15,700	300	0	150	10,100	1,125	0	25,385
698	NS	C007	AFATL	DIST LOADS	BALC	3.4	81	C. CAHILL	1	17.2	5.8	3.9	9.7	0.0	1.7	163	42	423	1,130	60	10	1,200	20,500	0	0	192	8,600	1,359	0	30,651
684	L7	C006	AEDC	AERO DATA CORR	BALC	3.5	81	J. WHORIC	1	15.5	3.5	1.4	12.0	0.0	0.0	60	25	433	870	50	30	950	15,000	0	0	106	3,000	747	0	16,853
672	NS	C008	AEDC	MISSILE/STING INTERF	DYSC	3.6	81	T. BUCHANAN	1	47.5	25.0	16.5	22.1	0.0	0.3	652	39	120	1,080	950	120	2,150	37,100	1,400	0	508	38,500	3,596	0	81,104
692	21	C008	AEDC	MISSILE/STING INTERF	DYSC	4.1	81	F. CYRAN	1	19.0	15.0	7.1	4.0	0.0	0.0	361	37	112	1,230	60	80	1,370	15,900	600	0	218	16,500	1,541	0	34,759
691	14	C009	BND	CBM	BAPC	4.2	81	T. SHADOW	1	100.5	85.5	26.6	13.0	0.0	2.0	1,273	541	6,545	3,660	320	40	4,020	57,600	0	0	842	70,000	5,959	0	134,461
697	26	C010	AD	CMCA FLOWFIELD	GRDC	4.3	81	A. HESKETH	1	152.9	98.0	46.3	46.0	0.0	4.9	1,870	494	7,765	5,990	170	130	6,290	90,500	0	0	1,327	110,500	9,391	0	211,819
697	26	C010	ASD	CMCA FLOWFIELD	BAPC	4.4	81	A. HESKETH	1	29.5	18.5	2.3	2.0	0.0	4.0	199	25	125	300	10	10	320	4,500	0	0	66	5,500	467	0	10,533
693	09	C011	AD	F-111/SBU-12	GRDC	5.1	81	M. KIBER	1	40.8	11.3	5.7	27.0	0.0	2.5	254	89	660	1,400	280	290	1,970	30,200	0	0	293	14,200	2,073	0	46,767
700	15	C012	BND	CBM INLET	MISC	5.2	81	R. WEIN	1	179.7	95.1	31.8	122.7	0.0	1.9	964	177	1,179	5,400	1,350	100	6,850	97,900	0	0	1,012	55,500	7,164	0	161,576
703	33	C118	AFMAL	HUGHES DUCT PACKET	BALC	5.3	81	R. TOLBERT	1	53.7	22.3	8.8	30.8	0.0	4.4	506	128	1,107	1,120	80	20	1,220	17,500	500	0	256	20,800	1,812	0	40,868
701	19	C013	AD	LOW LEVEL DELIVERY	CTSC	6.1	81	J. CARMAN	1	13.4	6.6	6.0	5.0	0.0	1.3	214	20	899	550	20	10	580	9,200	600	0	145	12,200	1,027	0	23,173
701	19	C013	AD	LOW LEVEL DELIVERY	GRDC	6.2	81	J. CARMAN	1	61.2	32.4	22.8	28.0	0.0	1.3	820	1,823	11,500	2,070	80	40	2,190	35,000	2,400	0	554	46,500	3,918	0	88,372
706	33	C118	AFMAL	HUGHES DUCT ROCKET	GRDC	6.3	81	P. TOLBERT	1	55.4	27.7	23.9	20.0	0.0	4.0	872	505	7,650	3,030	210	40	3,280	47,600	1,500	0	697	56,500	4,932	0	111,228
707	36	C121	AEDC	HUMIDITY STUDY	GRDC	6.4	81	P. MASSENSILL	1	31.8	14.1	9.0	17.7	0.0	2.4	453	83	890	1,785	5	10	1,800	24,500	300	0	343	27,240	2,430	0	54,814
707	36	C121	AEDC	HUMIDITY STUDY	CTSC	6.5	81	P. MASSENSILL	1	16.3																				

4T TEST STATISTICS DATA BASE

ITEMS IN THE DATABASE
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TEST PROJ A.F. SPONSOR	TITLE	TYPE PD	FY	P.E.	DOWNTIME				MANHOURS				COST (\$)														
					ENTR	OSH	UOH	ADH	I/R	SCHED	AEDC	MMH	DF	ATP	CALSPAN	SUPPORT	OT	TOTAL	LABOR	MAT.	TRAV.	FSI	ELEC	COMP	OTHER	TOTAL*	
702 27 C123 AD	JOHN GUN POD	BALC	8.3	81	V. STEWART	1	77.5	39.6	27.7	29.9	0.0	8.0	892	436	4,232	4,730	850	100	5,680	85,800	2,000	0	995	23,100	7,047	0	158,943
712 10 C532 AFATL	F-4 WEAP ADAPT	BALC	9.1	81	R. HEIM	1	16.4	12.9	7.8	2.4	0.0	1.1	280	187	2,044	890	80	20	990	15,900	0	0	232	19,300	1,644	0	37,076
690 10 C015 AEDC	F-111 LOADS	BALC	9.2	81	C. ANDERSON	1	31.0	13.2	6.9	17.3	0.0	0.5	294	99	1,065	1,970	220	10	2,200	33,100	0	0	350	22,200	2,489	0	56,141
707 36 C121 AEDC	HUMIDITY STUDY	GRDC	9.3	81	P. MASSENGILL	1	23.4	5.4	3.5	18.0	0.0	0.5	101	45	482	685	5	10	700	9,530	200	0	154	6,070	738	0	16,642
707 36 C121 AEDC	HUMIDITY STUDY	CTSC	9.4	81	P. MASSENGILL	1	14.9	6.3	5.4	7.7	0.0	0.4	193	16	626	1,060	10	10	1,080	14,700	200	0	175	11,600	1,238	0	27,912
713 22 C281 AEDC	4T IMPROVEMENTS	NISC	11.1	81	C. LAWRENCE	1	3.7	3.7	3.7	0.0	0.0	0.0	60	0	0	670	800	30	1,500	24,000	1,000	0	198	5,000	1,401	0	31,599
713 1E C527 NAVY	F-18 STORE SEP	DYDC	11.2	81	C. LAWRENCE	1	20.0	11.6	2.3	8.2	0.0	0.1	124	30	30	480	10	10	500	8,600	0	0	95	5,800	672	0	15,168
713 1E C527 NAVY	F-18 STORE SEP	GRDC	11.3	81	D. HILL	1	35.3	18.3	12.2	17.0	0.0	0.1	428	609	3,362	2,560	40	40	2,640	45,500	0	0	504	34,900	3,568	0	80,472
713 1E C527 NAVY	F-18 STORE SEP	CTSC	11.4	81	R. TOLBERT	1	12.9	8.9	6.5	4.0	0.0	0.0	215	97	1,435	1,360	20	30	1,410	24,300	0	0	269	12,700	1,905	0	42,975
714 1F C500 AD	F-111 DAMAGED	BALC	11.5	81	C. ANDERSON	1	34.6	13.6	6.7	21.0	0.0	6.7	257	62	759	1,550	30	20	1,600	27,100	0	0	296	17,700	2,092	0	47,189
689 16 C014 AEDC	ADAPTIVE WALLS	PRSC	11.6	81	D. CAHILL	1	63.6	15.2	12.8	46.0	0.0	2.4	675	56	768	2,910	10	30	2,950	48,300	2,000	0	634	45,800	4,488	0	101,222
711 1C C381 AFMAL	AMECS	PRSC	12.1	81	J. CARMAN	1	40.0	2.0	2.2	40.0	0.0	5.3	141	21	198	420	60	10	490	8,500	0	0	102	7,000	724	0	16,326
711 1C C381 AFMAL	AMECS	GRDC	12.2	81	J. CARMAN	1	37.7	16.4	13.4	10.0	0.0	4.0	585	211	3,571	2,580	390	50	3,010	51,800	0	0	622	42,500	4,404	0	99,326
715 17 C007 AFATL	DIST LOADS	BALC	12.3	81	G. BOWILLION	1	35.7	14.7	7.5	21.0	0.0	0.0	241	91	860	2,160	120	20	2,300	39,500	0	0	360	18,400	2,611	0	58,879
710 39 C335 AFMAL	FL AERD/RCS	BALC	12.4	81	J. WRIGHT	1	14.5	3.8	2.2	10.0	0.0	0.7	102	14	157	1,840	20	10	1,870	32,000	0	0	264	8,000	1,868	0	42,132
710 39 C335 AFMAL	FL AERD/RCS	BALC	1.0	82	J. WRIGHT	1	117.9	98.4	36.6	17.0	0.0	2.5	2,368	507	5,577	3,030	200	200	3,250	81,400	0	0	1,687	174,200	11,937	21,138	290,362
716 1H C599 ASD	F-16/PENGWIN	CTSC	3.1	82	R. PAULK	1	47.5	26.0	17.5	16.0	0.0	3.1	704	166	6,540	2,490	70	50	2,610	46,700	0	0	665	54,100	4,707	0	114,509
716 1H C599 ASD	F-16/PENGWIN	GRDC	3.2	82	R. PAULK	1	33.0	23.4	15.5	9.0	0.0	3.0	605	165	2,874	2,210	70	40	2,320	36,570	0	0	958	47,900	3,945	4,986	95,958
718 1P C670 AFATL	F-4 WEAP ADAPT	GRDC	3.3	82	C. LAWRENCE	1	31.6	15.0	9.0	14.0	0.0	1.8	352	143	1,283	1,955	40	20	2,015	35,900	0	0	420	27,750	2,972	3,264	72,306
718 1P C670 AFATL	F-4 WEAP ADAPT	CTSC	3.4	82	C. LAWRENCE	1	2.0	1.0	0.6	1.0	0.0	1.8	21	8	72	140	0	0	-140	2,540	0	0	28	1,660	196	347	4,771
721 1T C697 ASD	F-16 ECP 9101 SEP	DYDC	5.1	82	H. KIBER	1	76.5	29.0	6.4	22.0	0.0	10.0	392	67	67	2,360	42	52	2,454	41,359	0	0	633	26,256	5,595	1,382	75,225
721 1T C697 ASD	F-16 ECP 9101 SEP	CTSC	5.2	82	H. KIBER	1	50.1	32.9	7.4	15.6	0.0	10.0	402	86	2,792	2,728	49	60	2,837	47,821	0	0	732	20,359	6,469	1,598	86,979
721 1T C697 ASD	F-16 ECP 9101 SEP	GRDC	5.3	82	H. KIBER	1	2.5	2.5	0.6	0.0	0.0	7.1	30	7	110	221	4	5	230	3,877	0	0	59	2,462	525	150	7,053
717 1H C666 AEDC	4T IMPROVEMENTS	NISC	6.1	82	C. ANDERSON	1	41.6	7.6	5.7	34.0	0.0	0.0	184	29	143	3,331	19	3	3,333	61,075	0	0	275	14,171	5,993	1,124	82,638
723 1V C437 AFATL	F-16/SEEK EAGLE	BALC	6.2	82	G. BOWILLION	1	48.2	17.0	10.5	23.0	0.0	7.4	368	153	1,654	3,568	304	75	3,947	66,330	0	0	121	129,675	20,687	13,742	230,555
720 1R C676 AFATL	F-4 WEAP ADAPT	BALC	6.3	82	D. HODGES	1	47.6	10.8	10.0	18.8	0.0	18.0	301	110	1,264	3,639	757	219	4,615	76,399	0	0	334	23,321	3,927	1,568	105,549
726 1J C602 USAF	T-13B	NISC	7.1	82	J. WRIGHT	1	201.2	150.7	50.6	49.2	0.0	1.4	1,952	1,112	15,138	4,579	929	415	5,923	105,702	4,741	0	2,992	34,609	21,474	14,264	283,783
722 1S C432 AD	INFLUENCE FUNCT	CTSC	7.2	82	P. MASSENGILL	1	24.2	0.2	0.1	22.2	0.0	0.0	4	4	50	15	2	1	-18	277	0	0	2	270	63	11	623
722 1S C432 AD	INFLUENCE FUNCT	GRDC	8.1	82	P. MASSENGILL	1	33.8	32.8	22.5	1.8	0.0	1.0	790	255	4,170	3,267	383	102	3,752	62,152	0	0	48	66,421	14,095	2,442	139,158
719 1B C590 AD	ALD-131 LOADS	BALC	8.2	82	H. KAUPP	1	58.4	20.5	10.5	37.9	0.0	0.0	414	399	5,426	4,810	2,108	833	7,451	133,044	0	0	1,421	24,279	5,874	2,379	176,997
730 2C C772 ASD	F-16/JOHN GUN POD	DYDC	8.3	82	R. TOLBERT	1	36.8	20.8	2.3	14.0	0.0	2.0	243	33	33	1,868	41	61	1,970	33,250	0	0	1,335	17,648	1,568	844	94,445
728 1Y C756 ASD	F-16E STORE SEP	DYDC	8.4	82	R. PAULK	1	38.5	28.5	4.7	20.0	0.0	0.0	270	26	28	739	85	55	877	14,436	94	0	395	12,891	2,044	661	31,521
728 1Y C756 ASD	F-16E STORE SEP	CTSC	8.5	82	R. PAULK	1	79.9	53.0	20.4	25.0	0.0	2.1	364	474	5,816	3,209	369	229	3,807	62,658	410	0	1,714	66,294	8,873	2,867	136,816
728 1Y C756 ASD	F-16E STORE SEP	GRDC	9.1	82	R. PAULK	1	51.9	72.0	16.1	17.0	0.0	1.0	947	371	13,232	2,532	292	181	3,905	49,450	324	0	1,352	47,585	7,003	2,263	107,977
726 1J C602 USAF	T-13B	NISC	9.2	82	J. WRIGHT	1	71.2	59.2	14.1	12.0	0.0	0.0	744	400	5,425	1,580	259	116	1,650	29,454	1,321	0	834	27,510	5,964	3,975	79,078
732 2A C766 AEDC	4T IMPROVEMENTS	GRDC	9.3	82	D. HILL	1	61.0	4.4	2.0	54.9	0.0	1.7	89	14	374	648	4	13	665	12,268	0	0	2	4,914	1,277	276	18,737
729 2B C748 ASD	B-1B	GRDC	9.4	82	C. LAWRENCE	1	238.4	195.5	48.8	26.4	0.0	56.5	2,802	1,025	18,180	8,589	200	908	9,697	164,716	0	0	176	20,694	28,438	8,367	402,391
725 1W C539 ADTC	AMRAAM	GRDC	10.1	82	J. CARMAN	1	122.5	49.8	41.2	46.0	0.0	3.7	1,713	806	14,387	4,963	199	394	5,556	100,350	0	0	32	27,356	18,354	12,248	258,340
725 1W C539 ADTC	AMRAAM	BALC	10.2	82	J. CARMAN	1	70.3	46.5	17.8	30.0	0.0	8.4	1,082	263	1,853	2,144	86	170	2,100	63,353	0	0	14	55,323	7,730	5,292	111,614
725 1W C539 ADTC	AMRAAM	CTSC	11.1	82	J. CARMAN	1	1.4	1.4	1.2	0.0	0.0	4.2	39	32	390	145	6	11	162	2,923	0	0	1	3,709	535	357	7,525
731 2D C776 ASD	F-16 NON-JETT PYLON	DYDC	11.2	82	R. TOLBERT	1	20.0	23.3	3.0	16.9	0.0	1.0	314	41	41	687	26	27	740	12,465	0	0	381	16,695	1,069	627	25,147
733 2B C794 ASD	F-16 NSIP 9102	DYDC	11.3	82	H. KIBER	1	40.2	36.2	4.7	3.0	0.6	1.0	443	93	104	782	22	36	840	14,358	0	0	509	16,473	2,069	848	34,257
731 2D C776 ASD	F-16 NON-JETT PYLON	SRDC	11.4	82	P. TOLBERT	1	32.3	3.1	1.6	9.0	0																

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TEST PFC	A.F.	SPONSOR	TITLE	TYPE	PD	FY	P.E.	DOWNTIME				MANHOURS				COST (\$)														
								ENTR	OSH	UDM	ADM	I/R	SCHED	AEDC	MWH	OP	ATP	CALSPAN	SUPPORT	CT	TOTAL	LABOR	MAT.	TRAV.	PSI	ELEC.	COMP	OTHER	TOTAL*	
734	2J	C401	ASD	F-15 DER. FIGHTER	CTSC	1.1	83	P. MASSENBILL	1	88.5	61.9	33.9	21.0	0.0	5.6	1,216	489	24,536	3,860	320	70	4,250	73,400	0	0	259	88,604	8,524	11,804	182,591
735	2L	C839	ASD	B-1B STORE SEP	GRDC	1.2	83	C. LAWRENCE	1	217.8	137.2	78.3	71.2	0.0	9.4	2,581	1,668	36,669	6,840	400	460	7,700	136,700	0	0	546	189,264	23,373	28,466	378,349
724	1M	C539	ADTC	AMRAAM	BALC	2.1	83	R. PAULK	1	89.2	59.2	19.4	24.0	0.0	10.0	1,058	383	2,376	2,337	94	186	2,617	47,252	0	0	15	59,969	8,643	5,767	121,646
724	1M	C539	ADTC	AMRAAM	GRDC	2.2	83	R. PAULK	1	156.1	94.5	63.4	52.1	0.0	10.0	2,091	3,556	41,778	7,637	306	606	8,549	154,422	0	0	49	195,980	28,244	18,848	397,543
724	1M	C539	ADTC	AMRAAM	CTSC	2.3	83	R. PAULK	1	4.9	4.9	4.9	0.0	0.0	7.5	172	22	1,986	590	24	47	661	11,935	0	0	4	15,147	2,183	1,457	30,726
726	1C	C602	USAF	T-13B	MISC	2.4	83	J. WRIGHT	1	183.1	150.7	92.7	26.0	0.0	14.0	3,199	1,725	23,256	8,390	1,702	761	10,853	193,647	8,686	0	5,484	246,606	39,341	26,133	519,897
739	2M	C815	AEDC	BGL	CTSC	3.0	83	J. CARMAN	1	248.1	142.2	72.1	102.0	0.0	3.9	2,355	980	90,925	9,214	2,660	1,320	13,190	235,100	17,519	0	3,475	176,700	45,860	41,211	519,865
741	2K	C809	AD	WASP	BALC	4.0	83	B. GONILLION	1	77.9	39.9	15.8	38.0	0.0	2.0	568	233	1,644	2,675	70	110	2,950	52,400	0	0	698	39,100	9,926	8,418	110,542
741	2K	C809	AD	WASP	CTSC	5.1	83	B. GONILLION	1	100.8	65.8	42.5	31.0	0.0	2.0	1,373	4,434	42,609	7,200	180	300	7,680	140,900	0	0	1,877	105,100	26,701	22,644	297,222
742	2H	C803	AD	F-15 AIR-TD-GROUND	GRDC	5.2	83	D. HILL	1	80.4	56.1	23.2	22.0	0.0	1.3	843	491	9,559	5,383	2,084	239	7,706	138,825	244	693	2,270	61,360	8,897	22,214	234,303
743	2F	C837	ADTC	AMRAAM	CTSC	5.3	83	R. PAULK	1	172.1	97.8	48.7	28.5	0.0	46.2	2,006	610	19,931	6,940	340	880	8,160	148,800	118	0	4,479	182,800	23,868	259,999	620,654
743	1C	C602	USAF	T-13B	MISC	6.1	83	J. WRIGHT	1	228.0	191.0	105.4	30.0	0.0	7.0	3,599	2,069	27,878	9,539	1,936	865	12,340	220,177	9,876	0	6,235	280,391	44,731	29,713	591,123
743	2F	C837	ADTC	AMRAAM	DYDC	6.2	83	R. PAULK	1	126.4	65.0	15.4	45.0	0.0	16.4	1,319	246	246	2,190	110	280	2,580	47,100	37	0	1,417	57,800	7,547	8,221	122,122
748	2B	C813	ADTC	AMRAAM	BALC	7.1	83	J. CARMAN	1	117.9	84.1	30.6	27.0	0.0	11.1	1,499	582	2,857	2,637	167	328	3,132	57,986	134	0	28	92,813	9,972	11,016	171,949
747	2E	C813	ADTC	AMRAAM	GRDC	7.2	83	J. CARMAN	1	182.2	133.3	94.2	35.4	0.0	11.2	3,354	2,440	60,499	8,119	513	1,009	9,641	178,504	412	0	88	285,718	30,697	33,913	529,332
742	2U	C995	AFATL	F-4/A-10 /ALD-13J	BALC	8.1	83	R. HEIN	1	58.0	19.2	9.9	27.7	0.0	6.7	455	221	2,269	3,590	440	70	4,100	79,400	0	0	83	33,400	5,773	11,816	130,472
750	2M	C844	NAVY	AV-8B STORE SEP	GRDC	8.2	83	D. HILL	1	95.8	59.7	32.0	25.5	0.0	1.8	1,083	2,024	14,572	4,710	130	330	5,170	93,400	1,417	0	1,917	89,700	11,690	15,900	218,024
750	2M	C844	NAVY	AV-8B STORE SEP	CTSC	8.3	83	D. HILL	1	22.5	27.5	10.5	2.0	0.0	1.8	446	259	8,534	1,540	40	110	1,690	30,600	465	0	629	29,400	3,856	5,217	70,147
752	2X	C862	USAF	JBC-200	MISC	8.4	83	N. KIBER	1	94.9	72.0	33.6	16.0	0.0	6.9	1,247	1,364	19,570	3,910	720	410	5,040	90,800	0	0	0	92,600	9,711	15,037	208,148
742	2M	C831	AD	F-16 MSER SEP	CTSC	9.1	83	P. MASSENBILL	1	72.2	36.2	15.3	19.0	0.0	3.0	524	90	2,698	2,133	295	92	2,520	44,547	42	0	1,539	38,576	3,248	8,101	96,653
745	2W	C831	AD	F-16 MSER SEP	GRDC	9.2	83	P. MASSENBILL	1	22.0	31.8	11.5	0.0	0.0	4.2	405	587	5,325	1,603	222	70	1,895	33,483	32	0	1,157	28,995	2,442	6,089	72,198
750	2Y	C844	NAVY	AV-8B STORE SEP	DYDC	9.3	83	D. HILL	1	64.0	34.0	3.6	30.0	0.0	0.0	261	66	66	560	10	40	610	11,100	168	0	228	10,700	1,388	1,888	25,472
749	2V	C830	AD	F-16 MSER AERO	BALC	9.4	83	H. KAUPP	1	90.0	66.9	39.4	12.0	0.0	11.1	1,524	792	8,803	4,379	91	307	4,767	93,445	0	0	1,657	110,421	18,562	15,607	239,692
746	2T	C994	AFATL	F-46/JAHH	GRDC	10.1	83	N. KIBER	1	190.2	138.9	42.0	30.0	0.0	21.4	3,063	541	4,157	7,440	400	900	8,740	163,900	0	0	137	219,500	25,779	27,451	436,767
753	2Z	C839	ASD	B-1B STORE SEP	GRDC	10.2	83	C. LAWRENCE	1	184.0	135.8	64.2	35.0	0.0	13.3	3,001	2,586	38,029	7,316	230	853	8,399	155,132	0	0	1,804	214,902	27,868	26,297	426,003
756	2B	C871	ADTC	AMRAAM	GRDC	11.0	83	R. TOUBERT	1	167.7	100.8	68.2	48.7	0.0	16.6	2,742	2,704	41,964	7,570	310	500	8,580	144,300	0	0	3,466	201,300	26,834	27,290	403,190
758	2F	C841	ASD	F-16/NJP SEP	CTSC	12.1	83	R. PAULK	1	51.9	27.9	14.6	24.0	0.0	9.1	588	230	6,806	2,930	49	90	3,060	55,600	67	0	2,926	56,000	5,922	9,467	129,982
759	2F	C841	ASD	F-16/NJP SEP	DYDC	12.2	83	R. PAULK	1	39.4	25.4	4.7	14.0	0.0	9.1	429	59	59	940	20	30	990	17,900	21	0	942	18,000	1,906	3,048	41,817
759	2V	C872	ALC	F-4 CANOPY	GRDC	12.3	83	P. MASSENBILL	1	71.7	35.2	25.0	36.0	0.0	0.5	716	2,178	57,262	4,934	535	104	5,573	105,499	0	657	246	53,144	12,405	15,648	187,599
754	3E	C864	AFATL	GBU-15 MODIF.	BALC	12.4	83	D. WOODGES	1	36.0	0.0	0.0	36.0	0.0	0.0	0	0	0	2,669	81	75	3,025	57,433	0	0	1,491	0	0	7,678	66,602
759	3F	C864	AD	MAT CARRIAGE	BALC	11.1	84	G. ANDEFSCA	1	116.7	52.7	14.3	58.3	0.0	10.1	1,012	132	1,704	2,535	309	160	3,504	59,102	29	0	686	52,421	3,947	9,684	125,869
754	3E	C864	AFATL	GBU-15 MODIF.	BALC	1.1	84	D. WOODGES	1	186.1	162.9	88.3	5.0	0.0	18.2	3,522	1,862	19,497	7,713	436	377	8,526	165,390	0	148	410	251,647	25,485	32,127	475,207
763	3B	C894	USAF	RC6 105	MISC	1.2	84	J. CARMAN	1	225.5	151.6	99.0	62.0	0.0	11.9	3,098	4,183	75,626	8,439	1,308	1,190	10,937	203,934	0	0	3,447	225,470	33,270	38,564	504,685
761	3F	C892	AFATL	GBU-24 FORCE	BALC	2.0	84	R. YOUNG	1	52.6	37.1	15.5	14.0	0.0	1.5	716	275	3,391	4,103	175	45	4,323	82,789	0	0	2,925	50,689	5,795	13,584	155,783
762	2G	C856	ASD	F-16 MSER JETT.	DYDC	3.1	84	S. ALLEE	1	71.3	52.0	8.2	14.2	0.0	5.1	695	94	188	6,686	2,969	767	10,422	196,876	9,243	0	3,512	47,862	3,882	34,839	296,214
765	1C	C805	AEDC	4T IMPROVEMENTS	MISC	3.2	84	R. HEIN	1	48.0	5.8	1.3	42.2	0.0	6.0	63	26	301	2,262	3	156	2,421	50,376	0	0	0	4,441	6,549	6,027	67,393
767	3E	C832	ASD	F-15/FIREBOLT	BALC	4.1	84	J. WRIGHT	1	73.3	28.2	15.7	43.3	0.0	0.9	702	129	3,545	5,063	377	142	5,582	109,323	0	0	1,540	50,938	8,329	17,166	187,296
766	3E	C832	ASD	F-15/FIREBOLT	GRDC	4.2	84	J. WRIGHT	1	17.9	15.0	9.1	2.9	0.0	0.9	434	449	3,868	2,934	219	83	3,236	63,366	0	0	892	29,524	4,827	9,949	108,558
764	3F	C807	ASD	F-16 NJP SEP.	DYDC	4.3	84	C. LAWRENCE	1	49.7	17.2	4.2	32.0	0.0	2.0	310</														

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TEST PROJ	A.F.	SPONSOR	TITLE	TYPE	PD	FY	P.E.	DOWNTIME										MANHOURS				COST (\$)									
								ENTR	OSH	UDN	ADM	I/R	SCHED	AEDC	MWH	CP	PFF	CALSPAN	SUPPORT	QT	TOTAL	LABOR	MAT.	TRAV.	PSI	ELEC	CONF	OTREF	TOTAL		
771	3M	CB02	ASD	F-16 NJP SEP.	CTSC	9.3	84	C. LAWRENCE	1	94.4	49.6	22.1	41.0	0.0	3.5	935	346	10,120	5,768	276	405	6,449	121,300	50	0	1,650	91,600	7,366	19,600	242,260	
769	3M	CB64	AD	MAT CARRIAGE	GRDC	11.2	84	C. ANDERSON	1	198.7	125.1	65.2	59.2	0.0	16.0	3,105	3,548	31,037	11,546	1,496	728	13,682	269,243	133	0	3,127	238,800	17,979	44,116	573,404	
766	3M	CB80	AD	GBU-15 SEPAR.	SRDC	11.3	84	D. LANHAM	1	76.7	36.9	24.0	38.9	0.0	0.9	900	1,019	11,394	5,040	79	56	5,175	102,262	0	0	755	57,600	6,753	16,155	183,834	
775	02	CC27	AD	GBU-24 SEC	BALC	12.1	84	D. CAMILL	1	55.6	34.5	23.8	13.3	0.0	7.8	901	639	10,682	4,007	16	42	4,065	77,720	0	0	1,071	64,654	2,559	14,265	167,314	
774	3T	CC08	AD	F-15 S/C	BALC	12.2	84	H. SELLERS	1	95.3	55.2	32.7	20.5	0.0	2.7	1,417	1,068	9,142	5,442	1,953	402	7,798	150,234	967	0	1,839	166,766	16,750	22,440	286,180	
774	3T	CC08	AD	F-15 S/C	BALC	1.1	85	H. SELLERS	1	51.9	35.7	19.2	13.5	0.0	2.7	881	444	4,513	2,366	17	40	2,423	47,065	0	0	15	43,600	5,602	11,776	108,289	
1A	CC28	AEDC		VALVE 48 CHECKOUT	NISC	1.2	85	H. NESBITT	1	1.9	1.9	1.9	0.0	0.0	0.0	69	0	0	133	19	17	169	3,261	4	0	4	2,824	260	719	7,132	
777	3U	CC23	ASD	F-16 PEACE MARBLE	CTSC	1.3	85	H. MASSENGILL	1	26.7	18.7	15.5	4.1	0.0	3.9	522	110	7,700	3,050	139	60	3,249	61,476	92	0	21	30,900	4,182	11,603	108,273	
777	3U	CC23	ASD	F-16 PEACE MARBLE	GRDC	1.4	85	H. MASSENGILL	1	24.1	8.2	3.0	15.9	0.0	0.0	194	15	555	590	27	12	629	11,710	17	0	4	5,850	795	2,210	20,624	
781	3S	CB99	USAF	RCG 106 PH. II	NISC	1.5	85	G. KIBER	1	100.6	61.2	35.5	22.3	0.0	18.5	1,148	1,588	23,025	4,138	820	393	5,350	98,969	0	0	3,741	59,520	7,672	20,743	190,745	
781	3S	CB99	USAF	RCG 106 PH. II	NISC	1.6	85	G. KIBER	1	11.8	7.8	2.1	4.0	0.0	0.0	85	17	1,190	245	48	23	316	5,498	0	0	208	3,312	426	1,152	10,597	
781	3S	CB99	USAF	RCG 106 PH. II	NISC	1.7	85	G. KIBER	1	9.7	3.1	1.9	5.2	0.0	0.0	65	52	260	221	44	21	286	5,498	0	0	208	3,312	426	1,152	10,597	
779	05	CC43	AEDC	ASTF RAKE CALIB.	PRSC	2.1	85	H. KAUPP	1	34.5	13.5	4.1	20.7	0.0	0.3	190	42	799	1,968	40	26	2,034	42,713	0	0	75	9,410	2,386	6,459	61,046	
15	CC72	AEDC		FACILITY VERIFIC.	NISC	4.1	85	D. STALLINGS	1	4.7	4.7	0.7	0.0	0.0	0.0	39	0	0	49	7	6	62	1,202	1	0	16	1,041	103	265	2,628	
782	07	CC46	ASD	F-15E	BALC	4.2	85	R. YOUNG	1	195.8	102.3	50.0	72.0	0.0	21.5	2,160	682	4,539	8,439	2,149	2,945	13,533	270,485	402	0	3,737	107,391	8,150	49,112	439,277	
789	19	CC32	AD	SENSOR FUSE TEST	BALC	5.1	85	H. SELLERS	1	32.3	14.4	9.0	15.8	0.0	2.1	400	220	2,590	2,023	45	34	2,102	39,697	0	0	2,699	19,842	1,983	7,762	71,983	
790	16	CC24	USAF	RCG 108	NISC	5.2	85	D. LANHAM	1	96.1	47.4	37.2	47.2	0.0	1.5	1,143	1,877	32,337	2,682	341	470	3,492	67,907	0	0	776	58,600	8,119	15,313	150,714	
790	16	CC24	USAF	RCG 108	NISC	5.3	85	D. LANHAM	1	96.1	47.4	37.2	47.2	0.0	1.5	1,143	1,877	32,337	2,682	341	470	3,492	67,907	0	0	776	58,600	8,119	15,313	150,714	
786	11	CD11	ASD	STDL. DEMO. LOADS	BALC	5.4	85	C. ANDERSON	1	143.6	73.2	16.9	58.6	6.0	5.8	1,100	183	2,306	4,741	120	328	5,189	102,768	694	0	970	53,526	6,259	19,005	181,819	
780	04	CC36	AD	F-4 SP WEAPON ADAPT	BALC	6.1	85	H. HRODZIA	1	105.0	56.5	32.9	41.9	0.0	6.6	1,379	774	8,788	4,854	589	346	5,789	108,925	0	0	2,151	68,682	5,567	22,421	207,746	
784	09	CC94	AEDC	B.L. TRIP	NISC	6.2	85	H. KAUPP	1	140.5	28.7	19.9	111.3	0.0	0.5	619	141	1,670	2,914	345	173	4,432	88,119	520	0	2,118	31,500	4,514	15,854	142,740	
788	10	CD08	AFMAL	WEAP. CARRIAGE TECH	PRSC	6.4	85	F. LAWRENCE	1	64.8	8.3	2.5	56.5	0.0	0.0	143	23	216	580	54	36	672	12,380	0	0	58	6,174	776	2,491	21,880	
788	10	CD08	AFMAL	WEAP. CARRIAGE TECH	BALC	6.5	85	F. LAWRENCE	1	97.2	53.7	17.9	39.1	0.0	4.4	1,023	308	3,583	4,153	384	257	4,794	88,644	0	0	416	44,200	5,555	17,836	156,658	
788	10	CD08	AFMAL	WEAP. CARRIAGE TECH	GRDC	6.6	85	F. LAWRENCE	1	41.0	19.5	12.8	18.5	0.0	3.0	497	515	6,241	2,769	275	184	3,428	63,398	0	0	297	31,612	3,673	12,754	112,024	
793	22	CD48	AFMAL	ELLIPTIC BODIES	BALC	7.1	85	H. SELLERS	1	23.8	6.6	4.2	17.0	0.0	0.2	168	65	903	1,415	102	267	1,784	35,030	279	0	437	9,662	5,218	5,912	56,539	
785	08	CC87	ASD	STDL DEMO; AERO	BALC	7.2	85	D. HODGES	1	221.3	175.1	85.7	36.1	0.0	10.1	5,396	1,157	26,295	7,260	168	363	7,791	155,149	0	0	649	258,855	12,352	40,455	467,460	
792	21	CD26	USAF	T-138	NISC	8.1	85	J. WRIGHT	1	384.0	311.0	136.9	56.7	0.0	16.3	4,652	2,530	44,781	8,283	1,406	1,169	10,858	208,681	0	0	2,359	235,260	16,579	51,579	514,758	
787	12	CD17	AD	TRANSONIC MAT	BALC	9.1	85	D. CAMILL	1	68.2	31.3	15.0	30.3	0.0	6.6	679	213	4,394	2,732	180	196	3,108	61,381	0	0	25	33,676	3,975	11,667	110,724	
797	13	CD16	AFMAL	LOW ALT CONF. TECH	BALC	10.1	85	G. BOWILLION	1	245.2	185.3	66.7	50.8	0.0	9.1	4,907	682	9,584	6,651	587	1,646	8,804	179,783	0	0	2,239	236,298	7,125	41,783	467,228	
799	27	CD84	USAF	SFS 754	NISC	10.2	85	J. HEARIN	1	100.4	48.0	27.1	26.9	0.0	25.5	1,058	566	8,444	2,006	336	567	2,909	56,645	0	0	0	52,939	5,051	12,994	127,629	
796	24	CC81	USAF	BCU 84	NISC	11.1	85	L. COOPER	1	147.8	78.4	28.2	46.2	1.1	22.2	1,357	618	11,770	3,004	733	807	4,543	87,616	0	0	881	67,020	4,310	18,676	178,511	
796	24	CC81	USAF	BCU 84	NISC	11.2	85	L. COOPER	1	147.8	78.4	28.2	46.2	1.1	22.2	1,357	618	11,770	3,004	733	807	4,543	87,616	0	0	881	67,020	4,310	18,676	178,511	
778	03	CC31	ASD	F-15 CFT SED	CTSC	11.3	85	D. ANDERSON	1	280.3	179.6	71.0	52.5	4.5	43.7	3,616	1,081	30,501	6,891	944	1,886	11,721	234,699	0	811	737	191,870	11,947	45,875	485,865	
793	22	CD48	AFMAL	ELLIPTIC BODIES	PRSC	12.1	85	H. SELLERS	1	231.2	28.9	12.8	201.1	0.0	1.2	622	79	1,215	4,314	310	814	5,438	106,757	851	0	1,331	29,460	15,904	16,019	172,308	
803	28	CD91	AD	GBU-24 TB	BALC	12.3	85	J. WRIGHT	1	76.2	51.6	38.1	24.6	0.0	0.0	1,439	766	11,275	2,871	42	152	3,065	69,890	10	0	353	72,200	5,263	13,836	161,559	
795	06	CC44	AFATL	CFD STORE SEP.	PRSC	12.4	85	H. HRODZIA	1	150.6	45.2	21.3	104.4	0.0	1.0	952	229	1,143	4,518	134	589	5,261	113,856	1,460	0	749	47,219	6,624	18,781	188,308	
798	23	CD66	SD	ELV FORCE	BAPC	1.1	86	H. GRUBBS	1	109.0	28.8	9.5	67.3	6.0	6.9	569	131	2,043	4,561	114	390	5,065	103,344	0	0	77	27,708	3,800	15,604	150,632	
801	26	CD77	SD	ELV PRESSURE	BAPC	1.2	86	C. ANDERSON	1	143.6	67.7	21.8	73.1	0.0	2.8	1,207	220	1,540	4,503	125	676	5,304	111,358	16,048	0	3,360	59,200	4,429	21,443	215,855	
800	17	CD25	USAF	RCB 109	NISC	1.3	86	H. MASSENGILL	1	189.4	132.9	46.4	32.4	13.3	10.9	1,644	1,175	12,890	3,059	599	560	4,218	82,564	439	171	1,					

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TEST PROJ	A.F. SPONSOR	TITLE	TYPE	PD	FY	P.E.	DOWNTIME						MANHOURS						COST (\$)										
							ENTR	OSM	WON	ADN	I/R	SCHED	AEDC	MMH	OP	ATP	CALSPAN	SUPPORT	CT	TOTAL	LABOR	MAT.	TRAV.	PSI	ELEC	COMP	OTHER	TOTAL*	
807	34	CE4: NASC	F-1E STORES	CTSC	4.5	86	B. KIBER	1	25.2	18.7	13.1	4.0	0.0	2.5	460	246	4,787	3,497	133	165	3,795	75,851	367	0	2,173	27,072	3,458	14,305	123,227
808	35	CE4: AFMAL	INTERNAL STORE	CTSC	5.1	86	C. LAWRENCE	1	328.0	134.7	43.6	108.0	8.0	77.3	2,382	560	4,957	7,642	197	484	8,323	167,121	648	0	1,086	116,893	3,335	34,081	323,164
816	1F	CFSE ASD	F-16 PEACE MARBLE II	CTSC	6.1	86	H. MASSENGILL	1	53.5	16.0	5.6	28.7	0.0	8.8	315	58	1,913	3,020	43	45	3,108	62,135	0	0	158	15,419	1,426	10,561	89,699
810	3B	CE75 AD/WNT	HONEYWELL LDTV	BALC	7.1	86	H. KAUPP	1	61.9	12.9	5.7	48.3	0.0	0.7	243	90	907	3,406	92	16	3,514	78,352	0	0	292	12,094	1,134	11,405	101,277
817	16	CFSE USAF	FAP-4	MISC	7.2	86	M. BRUBBS	1	41.6	5.6	4.6	36.0	0.0	0.0	234	61	504	2,097	342	42	2,481	49,729	0	0	318	11,545	2,282	8,298	72,172
815	29	CD97 AFATL	CFD FINNED STORE	PRSC	7.3	86	R. HEIM	1	176.4	33.0	17.0	120.7	0.0	22.7	700	277	1,530	5,083	1,575	193	6,852	142,054	2,267	0	5,308	40,053	3,010	24,470	217,159
815	29	CD97 AFATL	CFD FINNED STORE	MISC	7.4	86	R. HEIM	1	21.7	19.0	4.3	2.0	0.0	0.7	315	40	120	1,286	399	49	1,733	35,931	574	0	1,342	10,131	761	6,189	54,929
812	1A	CE77 ARMY	MISAC	CTSC	7.3	86	R. PAULK	1	111.2	51.6	21.5	59.6	0.0	0.0	828	524	7,975	5,323	358	63	5,744	120,085	0	302	439	41,469	5,411	18,066	185,772
813	39	CE67 NAVY	TRIDENT II	PRSC	8.1	86	H. SELLERS	1	54.5	13.6	7.1	40.9	0.0	0.0	329	257	257	3,564	12	84	3,660	72,374	0	0	699	18,268	1,729	12,143	103,213
814	1C	CE79 ASD	F-15E HAVERICK	CTSC	8.2	86	L. COOPER	1	108.0	47.2	31.2	44.0	16.0	0.8	1,265	698	15,229	6,126	112	122	6,360	128,784	40	444	709	63,140	3,745	24,003	218,865
818	1H	CF24 ASD	F-15E CFT SEPERATION	CTSC	8.3	86	D. ANDERSON	1	213.7	114.6	66.7	99.1	0.0	0.0	2,105	4,874	50,959	6,955	138	250	7,343	148,461	0	275	1,964	107,090	5,983	28,184	291,957
800	17	CD25 USAF	RCB-109	MISC	9.1	86	P. MASSENGILL	1	486.9	336.6	181.8	96.7	0.0	53.6	5,615	9,720	131,907	11,986	2,346	2,192	16,525	323,496	1,722	669	8,056	305,933	28,683	74,689	741,248
811	16	CE75 ASD	F-15E HAVERICK/LOADS	BALC	10.1	86	D. CAHILL	1	243.8	147.2	55.6	63.7	0.0	32.9	3,396	796	1,977	9,421	524	1,385	11,330	239,598	4,083	0	1,190	165,770	7,829	45,121	463,591
809	36	CE45 ARMY	106 MILLIMETER FOLD.	BALC	11.1	86	D. HODGES	1	46.9	20.8	7.9	23.9	0.0	2.2	505	84	1,142	3,039	80	61	3,180	67,702	0	0	709	23,000	2,533	12,785	106,729
821	1P	CF97 AFATL	RING WING MISSILE	BALC	11.2	86	M. BRUBBS	1	79.0	41.3	20.8	36.4	0.0	1.3	834	270	1,560	5,064	243	132	5,439	110,931	0	0	157	41,723	2,932	18,828	174,571
820	1M	CE8C AFATL	HAVE BASH	BALC	12.1	86	G. GONILLION	1	103.1	16.1	10.2	82.8	0.0	4.2	457	128	2,234	4,950	183	366	5,499	116,273	0	0	1,404	22,685	2,139	21,581	164,082
819	31	CE8C AFATL	WEAPON INTERNAL CARRI	MISC	12.2	86	C. LAWRENCE	1	361.6	179.9	85.8	159.5	0.0	22.2	3,456	913	18,095	9,409	3,596	3,634	16,639	345,801	71,202	0	4,422	172,660	8,863	71,464	674,412
823	1Q	CD9E USAF	T-115	MISC	12.3	86	J. WRIGHT	1	63.4	26.8	22.8	22.5	0.0	14.1	875	0	0	1,543	459	572	2,574	56,817	50	0	175	45,128	2,781	9,872	114,823

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ITEMS IN THE DATABASE
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TEST PROJ	A.F.	SPONSOR	TITLE	TYPE	PD	FY	P.E.	ENTR	OSH	UDH	DHR	I/R	DOWNTIME				MANHOURS				COST (\$)								
													SCHED	AEDC	MMA	DP	ATP	CALSPAN	SUPPORT	OT	TOTAL	LABOR	MAT.	TRAV.	PSI	ELEC	COMP	OTHER	TOTAL
344	60	SAMSO	MX	PRST	1.1	75	G. BAKER	1	64.0	60.4	37.3	0.0	0.0	3.0	4,709	91	1,630	2,673	263	264	3,300	28,736	1,127	0	398	24,792	0	0	55,453
345	65	AFFDL	B-1 WEAPONS BAY	PRST	1.2	75	J. RIDDELL	1	111.5	97.0	54.1	0.0	0.0	14.5	9,229	418	791	3,807	517	376	4,700	39,009	1,960	0	582	40,609	0	0	50,582
352	90	AEDC	16T IMPROVEMENTS	PRST	1.3	75	F. JACKSON	1	7.5	7.5	6.0	0.0	0.0	0.0	559	14	136	626	85	62	773	10,000	0	0	131	8,000	0	0	18,131
352	81	AFFDL	ONERA CORR	PRST	2.1	75	J. SPURLIN	1	73.0	48.5	25.9	9.5	0.0	12.0	3,798	100	1,400	2,592	352	256	3,290	26,000	0	0	335	20,000	0	0	46,335
346	51	AFFDL	ATV FLOWFIELD	GRDY	2.2	75	J. BLACK	1	176.0	116.9	53.0	40.3	0.0	6.8	4,729	212	2,120	7,938	1,078	784	9,800	80,000	3,000	0	753	48,000	0	0	121,953
350	75	ARMY	155MM ROCKET	NABT	2.3	75	N. WHITE	1	112.0	65.2	46.3	31.8	0.0	6.6	7,127	51	1,142	4,941	671	488	6,100	51,000	1,000	0	815	60,000	0	0	112,615
351	80	AFFDL	AGARD AFTERBODY	NABT	3.1	75	L. GALIGHER	1	79.2	73.6	52.9	0.0	0.0	5.6	5,503	102	1,005	5,589	759	552	6,900	52,000	2,000	0	611	30,000	0	0	84,611
352	90	AEDC	16T IMPROVEMENTS	PRST	3.2	75	F. JACKSON	1	0.8	0.8	0.8	0.0	0.0	0.0	251	1	30	83	11	6	103	2,213	35	0	33	2,350	0	0	4,621
349	62	ADTC	H88B II	PRST	3.3	75	G. MACLANAHAN	1	48.0	36.4	15.6	11.0	0.0	0.6	1,625	89	1,843	2,754	374	272	3,400	28,000	0	0	313	15,000	0	0	42,313
356	72	AFFDL	I-24C	BALT	3.4	75	F. KEENEY	1	32.0	27.8	17.3	1.8	0.0	2.4	2,338	90	1,112	1,620	220	160	2,900	17,000	0	0	204	11,000	0	0	28,204
354	87	SAMSO	MI	BALT	3.5	75	D. REICHENAU	1	80.0	75.2	50.4	0.0	0.0	3.8	5,382	249	3,330	3,078	418	304	3,800	34,000	2,000	0	487	31,000	0	0	67,487
359	91	ASD	VF-16 A/B	BALT	4.1	75	J. BLACK	1	80.0	72.7	32.9	2.7	0.0	8.2	5,517	124	2,480	4,469	607	441	5,517	47,500	0	0	722	51,690	0	0	99,912
357	92	ASD	VF-16 A/B	BALT	4.2	75	J. SPURLIN	1	64.0	60.2	29.4	0.0	0.0	3.0	3,910	122	2,608	3,168	430	313	3,911	31,670	500	0	515	36,640	0	0	71,325
359	91	ASD	VF-16 A/B	BALT	4.3	75	J. BLACK	1	96.0	84.2	41.7	0.0	0.0	8.2	5,870	184	2,643	4,754	646	470	5,869	50,530	0	0	768	55,000	0	0	106,298
357	92	ASD	VF-16 A/B	BALT	4.4	75	J. SPURLIN	1	64.0	62.5	27.8	0.0	0.0	2.3	3,690	141	2,159	2,995	407	296	3,698	31,840	500	0	487	34,650	0	0	67,477
361	97	AFAPL	EXHAUST NOZZLE	NABT	5.1	75	E. LUCAS	1	51.0	49.3	25.0	0.0	0.0	1.7	3,037	71	911	3,321	451	328	4,100	38,000	0	0	422	20,000	0	0	58,422
365	04	AEDC	16T CALIBRATION	PRST	5.2	75	F. JACKSON	1	32.0	32.0	24.2	0.0	0.0	0.0	3,433	100	599	2,835	385	280	3,500	29,000	0	0	313	13,000	0	0	42,313
344	60	SAMSO	MI	NABT	5.3	75	D. BAKER	1	48.0	46.6	28.9	6.0	0.0	1.4	3,215	68	696	2,025	275	200	2,500	22,264	873	0	308	19,200	0	0	42,653
362	76	AFATL	FMU-110B	BALT	5.4	75	J. COLLINS	1	32.0	15.8	10.4	12.0	0.0	0.2	890	39	434	1,458	198	144	1,800	15,000	0	0	182	10,000	0	0	25,182
358	95	AFFDL	APSI INLET	SIPT	6.1	75	P. LAUER	1	48.0	47.4	31.0	0.0	0.0	0.6	4,439	79	393	2,673	363	264	3,300	27,000	0	0	415	30,000	0	0	57,415
343	63	ASD	B-1 INLET	SIPT	6.2	75	P. LAUER	1	80.0	77.5	52.4	0.0	0.0	2.5	7,845	152	720	1,968	145	105	1,318	11,064	1,742	0	159	9,987	0	0	22,052
370	10	ASD	VF-17	PRST	6.3	75	J. BLACK	1	53.8	36.1	15.1	12.0	0.0	1.7	2,867	47	258	2,673	363	264	3,300	28,000	1,000	0	372	27,000	0	0	52,372
352	90	AEDC	16T IMPROVEMENTS	PRST	6.4	75	F. JACKSON	1	1.2	1.2	1.2	0.0	0.0	0.0	112	3	11	126	17	12	155	1,330	18	0	17	1,950	0	0	2,415
355	88	ADTC	AIR SLEM	NABT	7.1	75	B. PETERS	1	78.8	74.9	44.1	0.0	0.0	2.3	5,182	174	1,408	2,121	288	210	2,619	21,613	254	0	317	77,912	0	0	100,096
355	88	ADTC	AIR SLEM	NIST	7.2	75	B. PETERS	1	16.0	15.3	7.0	0.0	0.0	2.3	823	29	253	316	43	31	390	3,219	38	0	47	11,604	0	0	14,908
368	05	ARMY	HIGH ALPHA AERO	BALT	7.3	75	F. KEENEY	1	64.0	46.7	25.4	12.0	0.0	4.3	2,877	129	3,769	2,754	374	272	3,400	29,000	0	0	429	30,000	0	0	59,429
353	78	AEDC	STALL/POST STALL	NIST	7.4	75	E. LUCAS	1	48.0	47.0	29.6	0.0	0.0	1.0	1,648	55	4,603	2,187	297	216	2,700	24,000	0	0	393	30,000	0	0	54,393
360	94	ARMY	PLUME EFFECTS	NABT	7.5	75	J. RIDDELL	1	32.0	16.0	10.9	12.0	0.0	0.0	1,009	71	1,025	1,076	146	166	1,328	11,526	349	0	125	5,239	0	0	17,225
348	69	ARMY	GYRO CAMARD	NIST	7.6	75	G. MACLANAHAN	1	17.0	5.0	0.4	12.0	0.0	0.0	40	1	9	1,134	154	112	1,400	12,000	1,000	0	97	400	0	0	13,497
372	09	ASD	F-15/AIN-7F	BALT	7.7	75	B. MEYER	1	32.0	19.6	4.9	11.0	0.0	1.4	545	18	81	1,296	176	128	1,600	13,000	0	0	138	6,000	0	0	19,138
374	71	AFFDL	I-24B	PRST	7.8	75	M. SANDERS	1	32.0	32.0	23.0	0.0	0.0	0.0	3,364	74	663	2,401	326	237	2,944	25,520	0	0	415	31,520	0	0	57,415
373	54	AEDC	16T IMPROVEMENTS	PRST	8.1	75	R. LUTZ	1	64.0	51.0	28.2	12.0	0.0	9.0	2,407	118	2,867	2,592	352	256	3,200	27,600	0	0	436	33,000	0	0	60,436
367	02	ASD	ADM-34R (S)	BALT	8.2	75	C. RIDDLE	1	48.0	46.2	19.1	1.6	0.0	0.2	1,487	120	986	2,266	308	224	2,800	24,052	2,122	0	396	28,296	0	0	54,896
367	02	ASD	ADM-34R	PRST	8.3	75	C. RIDDLE	1	16.0	15.9	7.9	0.0	0.0	0.1	614	42	480	972	132	96	1,290	9,948	878	0	164	11,704	0	0	22,694
371	06	AFFDL	B-1 NAB	NABT	8.4	75	E. PRICE	1	112.0	85.0	33.8	20.9	0.0	1.1	4,822	125	507	5,589	759	552	6,900	60,000	3,000	0	851	54,600	0	0	117,851
371	21	AFFDL	B-1 NAB	NABT	9.1	75	E. PRICE	1	80.0	79.3	33.3	0.0	0.0	1.7	2,209	111	533	2,754	374	272	3,400	32,000	0	0	415	25,000	0	0	57,415
364	95	AFATL	FMU-112 GENERATOR	NIST	9.2	75	J. COLLINS	1	16.0	15.7	6.4	0.0	0.0	0.3	562	20	204	1,539	209	152	1,900	16,000	0	0	189	10,000	0	0	26,189
374	71	AFFDL	I-24B	PRST	9.3	75	M. SANDERS	1	32.0	27.5	20.7	3.4	0.0	1.1	3,209	79	315	2,160	293	213	2,667	22,960	407	0	389	30,070	0	0	53,825
375	26	AFFDL	I-24C	BALT	9.4	75	E. WASHINGTON	1	16.0	11.0	5.6	5.0	0.0	0.0	670	31	375	1,134	154	112	1,400	12,000	0	0	138	7,000	0	0	19,138
377	25	AEDC	16T IMPROVEMENTS	PRST	9.5	75	J. CHRISTENSEN	1	32.0	16.0	9.0	12.0	0.0	0.0	1,552	38	282	1,134	154	112	1,400	13,000	0	0	167	10,000	0	0	23,167
347	45	AFFDL	TACT WINGBODY	BALT	9.6	75	F. KEENEY	1	80.0	65.5	28.6	9.8	0.0	4.7	3,720	222	2,715	3,240	440	320	4,000	35,000	0	0	560	42,000	0	0	77,560
381	29	AEDC	RF-4C/10 DES CONE	BALT	10.1	75	R. MEYER	1	64.0	48.3	25.7	11.0	0.0	4.7	2,885	171	2,070	2,511	341	248	3,100	25,000	0	0					

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TEST PROJ	A.F. SPONSOR	TITLE	TYPE	PD	FY	P.E.	ENTR	CSH	USH	ACH	I/R	DOWNTIME		MANHOURS				COST (\$)											
												SCHED	AEDC	MMH	CP	ATP	CALSPAN	SUPPORT	OT	TOTAL	LABDR	MAT.	TRAV.	FSI	ELEC	COMP	OTHEP	TOTAL*	
382	30	AEDC	EXHAUST NOZZLE	NABT	12.2	75	E. LUCAS	1	76.0	72.4	46.6	0.0	0.0	3.6	5,856	169	779	3,969	539	392	4,900	46,060	0	0	669	46,000	0	0	92,669
378	98	SAMSD	MI	GRDT	12.3	75	J. BLACK	1	160.0	127.9	71.9	24.8	0.0	3.3	8,410	400	3,760	6,075	825	600	7,500	71,000	0	0	1,113	82,000	0	0	154,113
376	03	SAMSD	MI	DYDT	12.4	75	B. ALLEE	1	80.0	60.1	15.1	12.0	0.0	3.9	991	114	376	6,480	880	640	8,000	70,000	3,000	0	604	10,000	0	0	83,604
383	31	ASD	B-1 ESCAPE SYSTEM	NABT	12.5	75	D. BAKER	1	23.0	19.7	11.9	2.5	0.0	0.8	873	59	1,218	1,539	209	152	1,900	18,000	0	0	226	13,000	0	0	31,226
383	31	ASD	B-1 ESCAPE SYSTEM	NABT	1.1	76	D. BAKER	1	25.0	21.0	14.5	4.0	0.0	0.0	771	82	1,048	648	88	64	800	8,000	0	0	145	12,000	0	0	20,145
366	93	AFFDL	ADV TECH WING	BALT	1.2	76	J. SPURLIN	1	271.0	250.4	101.2	9.0	0.0	11.6	13,379	533	8,310	6,719	912	664	8,295	74,260	790	0	2,408	255,960	0	0	337,418
410	80	AEDC	16T IMPROVEMENTS	MIST	1.3	76	D. BELL	1	1.0	1.0	1.0	0.0	0.0	0.0	130	2	18	478	65	47	590	6,620	1,000	0	64	1,180	0	0	8,864
389	12	NAVY	AEROSPIKE	MIST	1.4	76	S. MACLANAHAN	1	44.3	28.3	8.6	0.0	0.0	12.0	1,516	44	92	3,645	495	360	4,500	43,000	2,000	0	560	32,000	0	0	77,560
388	37	ASD	F-5 E/F	BALT	2.1	76	D. REICHENAU	1	208.0	201.1	118.5	1.8	0.0	4.9	11,815	532	14,427	6,480	880	640	8,000	71,000	0	0	2,161	226,000	0	0	299,161
406	88	ASD	F-16	BALT	2.2	76	M. WHITE	1	240.0	224.0	105.5	8.5	0.0	7.4	12,990	634	13,776	7,144	970	706	8,820	81,000	450	0	2,192	218,700	0	0	302,342
393	81	SAMSD	MI	PRST	3.1	76	D. BAKER	1	64.0	60.3	40.0	2.7	0.0	1.0	4,660	76	847	2,349	319	232	2,900	27,000	0	0	691	68,000	0	0	95,691
385	17	AFFDL	PARACHUTE	MIST	3.2	76	B. PETERS	1	48.0	42.5	17.7	0.0	0.0	5.5	2,203	138	1,722	2,835	385	280	3,500	31,000	2,000	0	589	48,000	0	0	81,589
397	85	ASD	F-16	PRST	3.3	76	R. MEYER	1	144.0	117.7	65.9	21.7	0.0	1.0	7,798	154	1,743	5,184	704	512	6,400	56,810	0	0	1,482	146,895	0	0	205,187
397	85	ASD	F-16	BALT	4.1	76	R. MEYER	1	42.9	42.9	15.3	3.2	0.0	1.5	2,842	122	1,282	1,215	165	120	1,500	13,190	0	0	344	34,105	0	0	47,639
391	81	NAVY	SLCM (GD)	MIST	4.2	76	P. LAUER	1	80.0	72.8	31.7	3.4	0.0	3.8	3,200	90	982	7,614	1,034	752	9,430	84,621	5,261	0	1,097	60,945	0	0	151,924
395	84	ADTC	FMU-110B	PRST	4.3	76	J. COLLINS	1	16.0	15.6	11.7	0.0	0.0	0.4	548	72	640	1,053	143	104	1,300	11,000	0	0	145	9,000	0	0	20,145
396	84	ADTC	FMU-113B	MIST	4.4	76	J. COLLINS	1	16.0	15.0	11.2	0.0	0.0	0.0	939	129	497	567	77	56	750	6,390	0	0	175	18,000	0	0	24,175
384	16	AFFDL	APSI DRAG	PRST	4.5	76	C. BURCHFIELD	1	80.0	67.8	42.5	11.0	0.0	1.2	5,209	164	820	6,156	836	608	7,600	72,000	0	0	1,004	66,000	0	0	139,004
387	18	AFAPL	ENGINE SIMULATOR	MIST	4.6	76	J. RIDGELL	1	240.0	147.5	59.9	24.0	0.0	48.5	6,378	179	763	19,599	2,662	1,936	24,195	220,800	5,520	0	2,316	92,000	0	0	320,636
394	80	NAVY	SLCM (LTV)	FSIT	6.1	76	M. SANDERS	1	224.0	99.6	34.7	100.1	0.0	0.0	4,752	121	686	13,203	1,793	1,304	16,360	148,174	10,584	0	1,859	96,768	0	0	257,585
504	80	NAVY	SLCM (LTV)	BALT	6.2	76	M. SANDERS	1	32.0	32.0	11.2	0.0	0.0	0.3	1,527	37	714	4,212	572	416	5,200	47,926	3,416	0	500	31,233	0	0	83,075
402	87	AFATL	FMU-112B	MIST	6.3	76	J. COLLINS	1	32.0	16.0	6.2	12.0	0.0	0.0	453	100	245	1,458	198	144	1,800	16,000	0	0	175	8,000	0	0	24,175
401	83	AFAPL	F-17	NABT	6.4	76	E. LUCAS	1	96.0	64.9	30.9	19.5	0.0	7.6	3,553	105	675	405	55	40	500	4,800	0	0	471	60,000	0	0	65,271
392	81	NAVY	SLCM (GD)	FSIT	7.1	76	P. LAUER	1	192.0	79.5	40.6	85.0	0.0	3.5	3,931	105	580	9,891	1,331	968	12,100	108,379	6,739	0	1,405	78,055	0	0	194,578
403	83	AEDC	PRESSURE DRAG	NABT	7.2	76	A. SPRATLEY	1	64.0	52.9	28.3	10.0	0.0	1.1	4,030	64	343	3,402	462	336	4,290	36,000	1,000	0	546	38,000	0	0	75,546
400	89	AFFDL	ATV	GRDT	8.1	76	J. BLACK	1	112.0	75.8	45.6	27.3	0.0	0.9	5,677	217	4,008	6,480	880	640	8,000	72,000	2,000	0	938	55,000	0	0	129,938
398	27	ASD	ALCM (GD)	FSIT	8.2	76	E. MCJILL	1	209.0	121.7	37.7	64.8	0.0	1.5	4,041	264	501	12,312	1,672	1,216	15,200	141,000	13,000	0	1,760	98,000	0	0	243,760
407	82	AEDC	16T IMPROVEMENTS	PRST	8.3	76	R. LUTZ	1	59.4	49.8	32.6	9.2	0.0	0.4	3,043	172	4,778	2,106	286	208	2,600	24,500	0	0	436	36,000	0	0	60,436
404	88	AFFDL	VED WING	NABT	9.1	76	D. BAKER	1	124.5	82.3	36.4	24.9	0.0	10.2	4,598	141	1,751	4,536	616	448	5,600	58,000	1,000	0	958	59,000	0	0	118,858
399	82	ASD	ADV RESEARCH INLET	SIPT	9.2	76	J. WALKER	1	107.4	66.7	42.1	25.0	0.0	7.7	5,623	305	778	6,022	818	595	7,434	71,350	500	0	927	55,460	0	0	128,367
411	87	AFATL	MK-E2/B4 AIR	BALT	9.3	76	C. ANDERSON	1	46.3	25.0	8.0	2.5	0.0	14.8	627	49	343	1,863	253	184	2,300	26,000	0	0	255	9,000	0	0	35,255
405	80	AFATL	MK-E2/B4	MIST	9.4	76	B. REICHENAU	1	61.5	25.1	6.9	26.0	0.0	2.3	786	17	743	2,835	385	280	3,500	39,000	1,000	0	415	18,000	0	0	57,415
409	84	AEDC	MIS ALPHA	DYST	10.1	76	A. HANSFIELD	1	72.5	50.1	22.9	16.5	0.0	1.9	1,149	40	661	3,669	539	392	4,900	52,000	0	0	509	18,000	0	0	70,509
415	81	AEDC	16T CALIBRATION	PPST	10.2	76	F. JACKSON	1	19.0	14.3	9.8	3.0	0.0	1.7	1,405	69	287	810	110	80	1,000	11,000	0	0	153	10,000	0	0	21,153
408	89	ASD	B-1 RADOME	NABT	10.3	76	B. PETERS	1	236.5	193.7	74.9	28.5	0.0	8.3	10,452	350	1,617	7,807	1,060	771	9,639	92,220	2,370	0	1,494	109,910	0	0	206,894
404	88	ASD	F-16	BALT	11.1	76	M. WHITE	1	256.0	234.1	104.8	10.0	0.0	11.9	11,738	589	13,842	6,827	927	674	8,428	77,450	430	0	2,094	208,980	0	0	288,904
422	82	AFFDL	F-16 TACT	BALT	12.1	76	F. KEENEY	1	89.0	75.2	34.3	0.0	0.0	4.3	4,815	156	3,419	2,142	291	212	2,644	26,435	0	0	567	51,549	0	0	79,551
410	80	AEDC	16T IMPROVEMENTS	MIST	12.2	76	D. BELL	1	16.0	9.0	5.8	3.0	0.0	4.0	560	42	386	2,762	375	273	3,419	36,380	4,000	0	358	6,820	0	0	49,558
419	84	AFATL	EEU-15 PNM VANE	MIST	12.3	76	J. COLLINS	1	64.0	45.3	19.3	13.8	0.0	0.9	2,233	130	2,886	2,197	297	216	2,700	24,000	0	0	415	33,000	0	0	57,415
414	83	AFATL	LDN COST MISSILE	MIST	12.4	76	D. SMITH	1	64.0	36.8	29.3	12.0	0.0	0.2	2,289	1,002	3,792	2,025	275	200	2,500	24,000	0	0	378	28,000	0	0	52,378
416	81	ARMY	LONG BODY PLUME	MIST	12.5	76	B. WEIDUNILT	1	32.0	13.4	9.2	13.8	0.0	0.6	745	43	564	1,944	264	192	2,400	22,200	0	0	237	19,310	0	0	32,754
416	81	ARMY	LONG BODY PLUME	BALT	12.6	76	B. WEIDUNILT	1	9.0	4.5																			

14T TEST STATISTICS DATA BASE

ITEMS IN THE DATABASE
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02-Nov-86

TEST	PROJ	A.F.	SPONSOR	TITLE	TYPE	PD	FY	P.E.	ENR	OSH	UOH	ADH	I/R	DCM TIME			MANHOURS				COST (\$)				TOTAL*				
														SCHED	AEDC	RHM	DP	ATP	CALSPAN	SUPPORT	OT	TOTAL	LABOR	MAT.		TRAV.	PEI	ELEC	CONF
417	66	AFFDL	RDV SUPERS CONFIG	BALT	1.5	76.	J. SPURLIN	1	128.0	126.6	57.4	0.0	0.0	1.4	9,031	208	4,502	7,290	990	720	9,000	84,000	2,000	0	1,278	144,700	0	0	232,728
418	F9	AFFDL	FYS X-24C	PRST	2.1	76.	M. ERVIN	1	110.9	100.5	49.4	7.5	0.0	2.6	7,271	119	913	6,804	924	672	8,400	78,400	2,370	0	1,292	96,800	0	0	178,622
419	D2	ASD	B-1 BLAST EFFECTS	PRST	2.2	76.	J. CHRISTENSON	1	1.1	1.1	1.1	0.0	0.0	0.0	167	17	16	154	21	15	190	1,750	50	0	29	2,150	0	0	3,979
428	B5	ADTC	F-111/GBU-15	BALT	2.3	76.	S. MACLANNAN	1	224.0	193.6	96.0	18.0	0.0	12.4	11,738	793	7,692	13,203	1,793	1,304	16,300	152,360	4,600	0	2,510	188,020	0	0	347,520
419	D2	ASD	B-1 BLAST EFFECTS	MIST	3.1	76.	J. CHRISTENSON	1	123.0	43.2	19.2	75.0	0.0	4.6	2,307	66	237	154	21	15	190	1,750	50	0	29	2,150	0	0	3,979
419	K0	AEDC	CLEANING RUN	MIST	3.2	76.	J. CHRISTENSON	1	5.0	5.0	1.0	0.0	0.0	0.0	90	0	0	810	110	80	1,000	9,300	0	0	78	1,440	0	0	10,818
427	H4	NAVY	F-18 INLET	SIPT	3.3	76.	P. LAUER	1	7.0	0.0	0.0	7.0	0.0	0.0	0	0	0	162	22	16	200	2,000	0	0	15	0	0	0	2,015
427	H4	NAVY	F-18 INLET	SIPT	1.1	77	P. LAUER	1	137.0	79.4	46.4	57.0	0.0	0.6	7,047	323	1,309	4,536	616	448	5,600	56,000	1,000	0	1,135	99,000	0	0	157,135
421	B8	ASD	B-1 EJECTION SEAT	BALT	1.2	77	D. REICHENAU	1	80.0	56.5	35.5	22.0	0.0	1.5	3,272	251	3,332	3,564	484	352	4,400	43,000	0	0	647	46,000	0	0	89,247
434	K4	AEDC	16T IMPROVEMENTS	MIST	1.3	77	R. LUTZ	1	16.0	16.0	9.5	0.0	0.0	0.0	958	47	1,119	1,296	176	128	1,600	16,000	0	0	294	12,000	0	0	28,294
430	HB	ASD	9-1	BALT	1.4	77	F. KEENEY	1	96.0	90.6	29.5	4.5	0.0	0.9	3,842	193	838	10,854	1,474	1,072	13,400	139,000	1,000	0	1,470	22,000	0	0	203,470
433	J9	AEDC	AEPS	NABT	2.1	77	E. PRICE	1	87.0	61.8	34.2	0.0	0.0	2.2	3,030	87	1,124	3,483	473	344	4,300	43,000	1,000	0	626	42,000	0	0	86,626
436	B5	ADTC	F-111/GBU-15	BALT	2.2	77	S. MACLANNAN	1	96.0	59.2	33.5	26.5	0.0	10.2	4,197	299	2,400	3,078	418	304	3,800	37,000	0	0	698	59,000	0	0	96,698
429	D0	AFFDL	NDT/COLD NOZZ	NABT	2.3	77	C. ROBINSON	1	92.0	80.8	54.5	32.0	0.0	15.2	6,689	92	1,300	8,829	1,199	872	10,900	108,000	10,000	0	1,542	94,000	0	0	213,542
435	L0	AEDC	16T CALIBRATION	MIST	3.1	77	F. JACKSON	1	48.0	30.5	22.6	16.0	0.0	1.5	2,934	161	694	2,916	396	288	3,600	35,160	800	0	548	39,340	0	0	75,848
439	L1	AFFDL	F-111 TACT	BALT	3.2	77	D. BELL	1	48.0	35.6	12.8	11.4	0.0	1.0	1,386	51	1,330	1,628	221	161	2,010	22,540	0	0	302	18,920	0	0	41,752
441	L9	AFFDL	F-111 TACT II	BALT	3.3	77	D. BELL	1	64.0	54.4	26.4	4.3	0.0	5.2	3,996	136	2,607	1,782	242	175	2,200	22,000	0	0	473	43,000	0	0	65,473
440	K7	AFFDL	F-15 AFTI	BALT	4.1	77	R. MEYER	1	112.0	83.2	38.9	0.0	0.0	27.9	4,438	180	2,716	3,143	427	319	3,880	37,330	0	0	736	63,850	0	0	101,936
438	B9	NAVY	F-18	BALT	4.2	77	M. SANDERS	1	272.0	220.2	99.5	34.5	0.0	16.9	13,069	421	4,067	8,829	1,199	872	10,900	112,000	0	0	2,146	183,000	0	0	297,146
442	M1	AEDC	SEP NOZZLE	PRST	5.1	77	J. RIDDELL	1	48.0	31.9	15.2	16.0	0.0	0.1	2,000	100	202	2,916	396	288	3,600	36,000	1,000	0	473	28,000	0	0	65,473
448	M1	AFFDL	F-111 TACT I	PRST	5.2	77	D. BELL	1	80.0	57.3	34.2	22.0	0.0	0.7	4,835	72	886	2,704	367	267	3,338	32,642	742	0	707	63,800	0	0	97,892
448	M1	AFFDL	F-111 TACT I	MIST	5.3	77	D. BELL	1	16.0	14.6	5.6	0.0	0.0	0.7	719	29	152	446	61	44	550	5,345	121	0	116	10,447	0	0	16,025
448	M1	AFFDL	F-111 TACT I	BALT	5.4	77	D. BELL	1	16.0	16.0	6.3	0.0	0.0	0.7	899	21	172	498	68	49	615	6,013	137	0	130	11,753	0	0	18,633
444	F0	AFATL	SUPERS ROCKET LAUN	BALT	5.5	77	E. SMITH	1	64.0	47.2	15.4	14.5	0.0	2.2	1,802	164	3,124	3,483	473	344	4,300	45,000	9,000	0	560	23,000	0	0	77,560
413	F4	ASD	F-16	BALT	6.1	77	M. WHITE	1	48.0	33.4	12.2	13.3	0.0	1.3	1,490	79	1,104	2,041	277	202	2,520	26,670	0	0	334	19,260	0	0	46,264
439	L1	AFFDL	F-111 TACT	BALT	6.2	77	D. BELL	1	64.0	62.7	19.0	0.0	0.0	1.3	2,106	95	1,519	2,422	329	239	2,990	33,460	0	0	448	28,000	0	0	61,988
446	J8	AFFDL	SOFT WING	PRST	6.3	77	S. MACLANNAN	1	9.9	8.0	2.7	1.9	0.0	0.0	374	10	181	1,195	162	119	1,475	14,954	554	0	147	4,708	0	0	20,363
456	L0	AEDC	16T CALIBRATION	MIST	6.4	77	F. JACKSON	1	6.1	6.1	4.4	0.0	0.0	0.0	430	19	171	567	77	56	700	6,840	200	0	107	7,660	0	0	14,807
449	HB	ASD	B-1	PRST	6.5	77	F. KEENEY	1	112.0	98.7	31.2	11.5	0.0	1.8	4,275	115	999	5,605	761	554	6,920	71,800	500	0	1,135	83,680	0	0	157,115
447	M8	AFFDL	F-16 AFTI	BALT	6.6	77	J. COLLINS	1	128.0	106.9	49.1	17.6	0.0	3.5	5,330	200	3,798	3,969	539	392	4,990	50,900	0	0	862	67,660	0	0	119,422
437	E6	AFFDL	M1 FLOWFIELD PROBE	GRDY	7.1	77	C. BURCHFIELD	1	80.0	37.2	25.4	24.4	0.0	3.8	2,000	188	1,152	4,455	605	440	5,500	57,000	2,000	0	626	27,000	0	0	86,526
445	M9	AFFDL	MIMBODY FLOWFIELD	GRDY	7.2	77	D. REICHENAU	1	80.0	51.8	23.5	34.6	0.0	8.2	3,000	57	1,548	4,498	638	454	5,800	62,000	2,000	0	735	27,000	0	0	101,735
440	K7	AFFDL	F-15 AFTI	BALT	7.3	77	R. MEYER	1	96.0	76.0	40.3	18.5	0.0	1.5	5,063	176	3,723	3,256	442	322	4,020	38,679	0	0	763	66,150	0	0	105,563
454	M1	AFNL	F-111	DYDT	7.4	77	S. BROWN	1	64.0	53.2	21.0	4.7	0.0	6.1	3,209	108	200	5,103	693	504	6,300	66,000	0	0	736	42,000	0	0	108,756
451	M2	ASD	F-16	BALT	7.5	77	M. WHITE	1	134.7	108.6	61.9	16.0	0.0	10.1	7,312	305	6,379	3,969	539	392	4,900	52,000	0	0	1,069	95,000	0	0	148,569
461	HB	AEDC	16T IMPROVEMENTS	BALT	8.1	77	D. BELL	1	16.0	8.9	5.3	5.8	0.0	1.3	495	41	402	567	77	56	700	9,000	0	0	109	6,000	0	0	15,109
452	K9	AFATL	F-111 MSER	BALT	8.2	77	M. WHITE	1	128.0	109.2	33.7	4.0	0.0	14.8	4,109	241	1,629	5,022	682	496	6,200	63,000	0	0	844	53,000	0	0	116,544
413	F4	ASD	F-16	BALT	8.3	77	M. WHITE	1	61.3	28.9	12.5	11.5	0.0	0.9	1,539	79	1,238	2,090	284	206	2,580	27,330	0	0	342	19,740	0	0	47,412
455	M3	AFFDL	F-111 AFTI NAB	NABT	9.4	77	C. BURCHFIELD	1	227.0	113.7	47.9	33.5	0.0	10.8	5,093	227	1,151	6,695	935	680	8,500	90,000	1,000	0	1,142	66,000	0	0	156,142
463	M9	AFATL	2D NOZZLE	NABT	9.1	77	D. BAKER	1	193.0	119.3	46.4	41.5	0.0	14.8	5,421	193	1,132	6,642	902	656	8,200	94,000	2,000	0	1,208	70,000	0	0	167,208
460	M7	NAVY	F-18 INLET	SIPT	9.2	77	J. WALKER	1	129.0	87.6	51.2	32.0	0.0	8.4	7,470	191	955	7,128	968	704	8,800	93,000	1,000	0	1,389	57,900	0	0	192,359
464	P3	ASD	F-15	BALT	10.1	77	E. MACLEOD	1	96.0	79.5	42.5	9.0	0.0	7.5	3,861	205	1,312	3,078	418	304	3,800	41,000	0	0	662	56,000	0	0	92,662
447	M9	AFFDL	F-16 AFTI	BALT	10.2	77	J. COLLINS	1	64.0	44.2	27.1	16.0	0.0	3.8	2,701	98	2,175	2,187	297	216	2,700	28,100	0	0	476	27,340	0	0	65,516
449	M6	ASD	F-1	PRST	10.3	77	F. KEENEY	1	112.0	87.0	29.2	11.0	0.0	9.0	4,125	98	813	5,249	713	516	6,461	67,200	300	0	1,352	78,320	0	0	147,982
452	M8	AEDC	F-17 NAB	NABT	10.4	77	E. LUCAS	1	321.0	119.7	76.1	35.5	0.0	4.8	10,583	327	1,086	7,509	1,020	742	9,270	102,255	1,626	0	1,674	125,207	0	0	231,762
406	NS	ASD	B-1 INLET	PRST	11.1	77	J. RIDDELL	1	96.0	69.9	33.3	19.9	0.0	6.2	7,439	194	760	3,564	484	352	4,400	50,000	0	0	1,069	27,000	0	0	148,669
457	J8	AFFDL	SOFT WING	MIST	11.2	77	S. MACLANNAN	1	176.0	92.8	36.2	80.0	0.0	3.2	4,857	112	1,225	16,938	2,178										

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TEST	PROJ	A.F.	SPONSOR	TITLE	TYPE	PD	FY	P.E.	ENTR	OSH	UDM	ASH	T/P	SCHED	DOWNTIME		MANHOURS				COST (\$)									
															AEDC	NWH	OP	ATP	CALSPAN	SUPPORT	OT	TOTAL	LABOR	MAT.	TRAV.	PSI-	ELEC	COMP	OTHER	TOTAL
471	LB		AFAPL	YF-17 NAB	PRST	1.1	78	E. LUCAS	1	73.0	71.9	42.0	0.0	0.0	1.1	5,404	197	827	2,106	286	208	2,600	30,000	0	0	771	76,000	0	0	106,771
478	RO		NAVY	F-18 INLET	SIPT	1.2	78	J. WALKER	1	176.0	117.6	50.3	39.1	0.0	3.3	7,682	163	989	5,913	803	584	7,300	81,000	0	0	1,375	108,000	0	0	190,375
475	P7		ASD	F-16	BALT	1.3	78	M. WHITE	1	80.0	58.2	35.5	16.0	0.0	5.8	4,778	329	2,315	2,511	341	248	3,100	41,000	0	0	766	67,000	0	0	108,786
470	P1		NASA	SHUTTLE LAUNCH	PRST	1.4	78	J. BLACK	1	272.0	226.6	128.6	39.3	0.0	6.1	21,427	1,003	4,948	10,206	1,386	1,008	12,600	147,000	2,000	0	3,266	300,000	0	0	452,266
476	R2		NAVY	STANDARD MISSILE	BALT	2.1	78	S. BROWN	1	64.0	42.0	28.2	18.6	0.0	3.4	4,957	134	4,129	3,159	429	312	3,900	43,000	1,000	0	822	69,000	0	0	113,822
474	M4		AFFDL	B-1 NAB	NABT	2.2	78	D. REICHENAU	1	192.0	114.1	53.2	61.8	0.0	16.1	5,964	367	815	8,100	1,100	800	10,000	114,000	1,000	0	1,440	83,000	0	0	199,440
479	R4		AEDC	EJECT SIMULATOR	NABT	3.1	78	D. REICHENAU	1	48.0	43.5	29.6	3.6	0.0	0.9	3,364	138	526	2,916	396	288	3,600	42,000	0	0	647	47,000	0	0	89,647
473	P8		AFFDL	ADV NOZZLE	NABT	3.2	78	P. LAUER	1	240.0	184.8	89.5	21.7	0.0	33.5	9,382	566	2,973	9,072	1,232	896	11,200	126,000	0	0	1,877	132,000	0	0	259,877
483	05		AFFDL	F-15 AFTI	BALT	4.1	78	R. MEYER	1	96.0	78.9	41.1	16.0	0.0	1.1	5,015	182	3,603	2,673	363	264	3,300	36,000	0	0	771	70,000	0	0	106,771
477	M2		AFAPL	F-16 NAB	NABT	4.2	78	E. PRICE	1	240.0	193.8	112.8	39.7	0.0	6.5	14,673	675	2,181	10,935	1,485	1,080	13,500	155,000	2,000	0	2,633	205,000	0	0	364,633
472	R1		AEDC	PRESSURE DRAG	PRST	5.1	78	A. SPRATLEY	1	64.0	42.1	24.6	10.6	0.0	11.3	3,329	88	315	2,592	352	256	3,200	34,000	0	0	582	46,000	0	0	80,582
431	67		NASA	SHUTTLE PROBE	PRST	5.2	78	M. WHITE	1	144.0	81.6	53.5	16.0	0.0	46.4	7,332	180	1,968	4,455	605	440	5,300	60,000	1,000	0	1,208	105,000	0	0	167,208
484	06		AFFDL	F-16 AFTI	BALT	5.3	78	S. MACLANAHAN	1	108.0	88.4	42.4	18.0	0.0	1.6	4,578	162	3,569	3,483	473	344	4,300	49,000	0	0	822	64,000	0	0	113,822
487	10		AEDC	F-15 CADS	BALT	6.1	78	J. SPURLIN	1	114.2	46.1	28.4	43.5	0.0	22.6	2,333	59	6,311	5,994	814	592	7,400	88,000	0	0	880	33,000	0	0	121,880
485	22		AEDC	1&T IMPROVEMENTS	MIST	6.2	78	F. KEENEY	1	1.8	1.6	1.8	0.0	0.0	0.2	201	19	140	1,288	175	127	1,590	21,090	1,000	0	183	3,090	0	0	25,363
488	01		ARMY	GSRS	NABT	6.3	78	D. WEIDUWILT	1	48.0	36.0	17.6	16.0	0.0	12.0	2,637	80	1,154	3,645	495	360	4,500	52,000	0	0	655	38,000	0	0	90,655
486	07		ASD	ALCM	BALT	6.4	78	M. SANDERS	1	128.0	111.8	56.9	11.0	0.0	5.2	4,976	300	3,744	4,455	605	440	5,500	64,000	0	0	989	72,000	0	0	136,989
491	24		NAVY	STANDARD MISSILE	PRST	7.1	78	S. BROWN	1	26.5	19.0	9.8	7.4	0.0	0.1	1,502	34	509	2,349	319	232	2,900	33,000	1,000	0	407	22,000	0	0	56,407
481	RS		AFFDL	C-141 WING	BAPT	7.2	78	J. SPURLIN	1	101.5	94.4	34.3	5.5	0.0	1.6	5,493	173	1,810	4,050	550	400	5,000	57,000	0	0	997	80,000	0	0	137,997
495	13		AFFDL	EJECTION SEAT	MIST	7.2	78	M. ERVIN	1	48.0	32.0	10.5	16.0	0.0	0.0	595	77	385	2,997	407	296	3,700	42,000	1,000	0	378	9,000	0	0	52,378
492	09		AFAPL	YF-17 NAB	NABT	7.3	78	E. LUCAS	1	96.0	86.5	48.3	5.3	0.0	4.2	4,597	315	986	4,779	649	472	5,900	70,000	12,000	0	1,091	68,000	0	0	151,091
496	28		AFAPL	F-16 NAB	NABT	8.1	78	J. RIDDELL	1	154.0	131.0	81.4	15.0	0.0	8.0	12,183	548	1,711	5,613	762	554	6,930	80,530	0	0	1,929	184,430	0	0	266,908
497	20		AEDC	TRANSONIC WALL	BAPT	8.2	78	P. LAUER	1	67.0	58.1	17.2	21.0	0.0	7.9	1,993	54	640	3,483	473	344	4,300	49,000	0	0	575	30,000	0	0	79,575
493	02		AEDC	1&T IMPROVEMENTS	DYST	8.3	78	M. CARLETON	1	112.0	23.0	14.9	80.0	0.0	9.0	1,284	21	253	8,100	1,100	800	10,000	115,000	5,000	0	1,011	19,000	0	0	140,011
500	00		AEDC	1&T IMPROVEMENTS	MIST	9.1	78	J. REED	1	16.0	14.8	4.6	0.0	0.0	1.2	405	8	123	606	82	60	748	8,672	0	0	83	5,440	0	0	14,195
482	08		AFFDL	F-111 2D NOZZLE	NABT	9.2	78	C. BURCHFIELD	1	96.0	0.0	0.0	96.0	0.0	0.0	140	0	0	3,758	510	371	4,640	58,030	13,000	0	532	2,050	0	0	73,612
503	29		NAVY	STANDARD MISSILE	BALT	9.3	78	S. BROWN	1	48.0	27.0	13.8	20.5	0.0	0.5	843	109	2,397	2,349	319	232	2,900	34,000	0	0	335	12,000	0	0	46,335
495	19		AEDC	1&T IMPROVEMENTS	MIST	9.4	78	R. LUTZ	1	32.0	22.2	11.6	9.6	0.0	0.2	1,028	45	746	1,296	176	128	1,600	21,000	0	0	262	15,000	0	0	36,262
511	15		AFATL	LG MSM PH I	MIST	9.5	78	J. WALKER	1	112.0	79.3	45.8	17.6	0.0	15.1	6,498	236	2,852	2,997	407	296	3,700	45,000	0	0	1,062	101,000	0	0	147,062
494	25		AFAPL	F-16 NAB	NABT	10.1	78	J. RIDDELL	1	32.0	23.7	12.6	8.2	0.0	0.1	1,848	79	247	867	119	86	1,070	12,470	0	0	298	28,550	0	0	41,318
507	24		NASA	PROCASTISITY	BALT	10.2	78	J. BLACK	1	105.0	66.2	39.9	25.3	0.0	12.5	5,728	348	2,800	3,078	418	304	3,800	46,000	0	0	1,026	95,000	0	0	142,026
498	26		NAVY	WALLEVE	BALT	10.3	78	S. MACLANAHAN	1	69.0	40.0	25.6	29.0	0.0	0.0	3,301	219	2,019	3,240	440	320	4,000	39,000	1,000	0	713	59,000	0	0	98,713
510	33		ASD	AIRCRAFT AERO	BALT	10.4	78	R. MEYER	1	34.0	24.9	10.8	8.5	0.0	0.6	1,353	79	774	1,782	242	176	2,200	29,000	1,000	0	366	26,900	0	0	53,386
506	27		AFMIL	BLAST WAVE	PRST	10.5	78	L. HERRINGTON	1	9.2	5.7	2.5	3.5	0.0	0.0	260	21	59	648	88	64	800	8,000	0	0	67	4,000	0	0	12,587
500	00		AEDC	1&T IMPROVEMENTS	MIST	10.6	78	J. REED	1	6.8	6.8	5.7	0.0	0.0	0.0	496	11	169	748	102	74	924	10,712	0	0	102	6,720	0	0	17,534
482	08		AFFDL	F-111 2D NOZZLE	NABT	10.7	78	C. BURCHFIELD	1	241.5	147.6	54.3	63.5	0.0	30.4	6,132	167	737	9,445	1,283	933	11,662	145,970	34,000	0	2,046	190,950	0	0	262,964
500	00		AEDC	1&T IMPROVEMENTS	MIST	11.1	78	J. REED	1	2.0	2.0	0.7	0.0	0.0	0.0	56	0	0	107	15	11	132	1,536	0	0	15	960	0	0	2,505
489	12		NAVY	F-16L	EMPTY	12.1	78	J. RIDDELL	1	76.7	55.5	24.6	20.6	0.0	0.6	3,464	94	1,034	3,807	517	376	4,700	57,000	0	0	837	58,000	0	0	115,837
485	22		AEDC	1&T IMPROVEMENTS	MIST	12.2	78	F. KEENEY	1	3.3	3.3	1.7	0.0	0.0	0.0	171	0	0	1,223	166	121	1,510	19,910	1,000	0	173	2,910	0	0	23,993
505	14		AFAMRL	EJECTION SEAT	MIST	12.3	78	D. REICHENAU	1	96.0	42.0	21.6	52.0	0.0	2.0	1,526	193	756	3,645	495	360	4,500	55,000	0	0	562	25,000	0	0	80,562
517	35		NASA	DATA VERIFICATION	BAPT	12.4	78	J. BLACK	1	79.5	25.8	11.5	40.2	0.0	0.0	1,770	8													

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TEST PROJ A.F. SPONSOR	TITLE	TYPE PD FY	P.E.	ENTR	DSH	UOH	ADN	I/R	SCHED	AEDC	RWH	OP	ATP	DOWNTIME				MANHOURS				COST (\$)				TOTAL
														CALSPAN	SUPPORT	DT	TOTAL	LABOR	MAT.	TRAV.	PS:	ELEC	COMP	OTHER	TOTAL	
519 B1	NASA DATA VERIFICATION	BRPT 2.2 79	J. BLACK	1	35.4	11.4	9.1	23.3	0.0	0.8	1,142	55	362	2,673	353	264	3,300	40,000	0	0	664	43,000	0	0	87,664	
516 38	JCMPO ALCH PARACHUTE	WIST 2.3 79	D. REICHENAU	1	33.5	13.5	3.5	20.0	0.0	0.0	324	1	23	2,228	303	220	2,750	33,500	2,000	0	361	14,000	0	0	49,861	
505 30	NASA E T PROBE	PRST 2.4 79	J. SPURLIN	1	172.7	77.2	46.8	54.9	0.0	4.1	5,162	308	2,235	7,128	959	704	9,800	108,000	0	0	2,292	207,000	0	0	317,292	
520 A6	AEDC 16T IMPROVEMENTS	WIST 4.1 79	J. REED	1	33.2	13.2	3.4	20.0	0.0	0.0	260	7	44	1,134	154	112	1,400	17,000	1,000	0	200	9,500	0	0	27,700	
522 A9	NAVY STANDARD MISSILE	BALT 4.2 79	D. WEIDUNILT	1	77.2	60.5	51.6	10.0	0.0	6.7	5,746	225	9,898	5,022	682	496	6,200	75,000	1,000	0	2,117	215,000	0	0	293,117	
523 B6	AFFDL STAC	BALT 4.3 79	L. HERRINGTON	1	40.3	30.0	20.4	10.0	0.0	0.3	1,100	270	2,193	2,187	297	216	2,700	32,000	0	0	531	41,000	0	0	73,531	
516 38	JCMPO ALCH PARACHUTE	WIST 4.4 79	D. REICHENAU	1	23.7	13.7	3.5	10.0	0.0	0.0	434	1	22	2,228	303	220	2,750	33,500	2,000	0	360	14,000	0	0	49,260	
535 D0	AEDC 16T IMPROVEMENTS	BALT 4.5 79	C. BURCHFIELD	1	26.5	10.6	10.4	13.3	0.0	2.6	1,164	48	563	1,944	264	192	2,400	31,100	2,000	0	546	41,900	0	0	75,546	
521 41	AFFDL FORWARD SNEPT WING	BRPT 5.1 79	J. WALKER	1	182.0	67.3	45.4	15.0	0.0	52.6	3,953	140	2,182	5,751	781	568	7,100	84,000	1,000	0	1,695	148,000	0	0	234,695	
526 B0	JCMPO ALCH COLD PIPE	SIPT 5.2 79	P. LAUER	1	56.0	20.1	16.6	28.0	0.0	0.0	1,504	133	659	3,807	517	376	4,700	59,000	3,000	0	856	56,000	0	0	118,256	
525 B5	NAVY WALLEYE	BALT 5.3 79	S. MACLANAHAN	1	42.0	11.3	10.6	20.5	0.0	2.3	1,230	105	1,027	2,106	285	208	2,600	31,000	0	0	521	42,000	0	0	73,521	
537 B3	AFFDL AFTI AERO	BALT 6.1 79	P. MEYER	1	90.9	76.4	49.9	12.0	0.0	2.5	5,745	312	7,279	4,131	561	408	5,100	62,000	0	0	2,015	215,000	0	0	279,015	
530 A3	AEDC MISSILE PLUME	WIST 6.2 79	D. BAYER	1	79.5	56.8	14.0	21.5	0.0	1.2	2,631	32	76	23,490	3,190	2,320	29,000	378,000	14,000	0	3,550	95,000	0	0	493,550	
534 B2	AFFDL -CDAF	BRPT 6.3 79	J. SPURLIN	1	109.2	91.5	63.8	8.9	0.0	7.0	7,704	348	4,272	6,156	836	608	7,600	97,000	1,000	0	2,808	288,000	0	0	388,008	
533 AB	ADTC MAAM ACM	WIST 7.1 79	C. BURCHFIELD	1	61.2	25.7	11.5	20.1	0.0	0.4	1,024	48	317	3,888	528	384	4,800	63,000	1,000	0	742	38,000	0	0	102,742	
524 21	ASD ALCH (BOEING)	FSIT 7.2 79	E. McDILL	1	181.0	96.3	56.5	71.9	0.0	5.0	7,439	364	1,505	19,845	2,695	1,960	24,500	323,000	11,000	0	4,452	278,000	0	0	616,452	
529 D0	AEDC 16T IMPROVEMENTS	DYST 8.1 79	T. BUCHANAN	1	42.7	10.0	6.7	35.0	0.0	0.0	668	8	168	1,247	169	123	1,540	20,000	1,300	0	334	24,600	0	0	46,334	
528 02	AEDC F-16 DYNAMIC STAB	DYST 8.2 79	T. BUCHANAN	1	47.3	39.1	25.6	0.0	0.0	5.9	1,875	46	930	11,016	1,496	1,088	13,600	164,000	5,000	0	1,724	69,000	0	0	238,724	
536 B8	ADTC FWU-113	WIST 8.3 79	C. SMITH	1	30.0	12.4	11.0	14.0	0.0	0.0	658	123	513	1,863	253	184	2,300	30,000	0	0	358	25,000	0	0	55,000	
542 D0	AEDC 16T IMPROVEMENTS	WIST 8.4 79	H. NESBITT	1	3.6	3.6	3.3	0.0	0.0	0.0	225	18	74	616	84	61	760	9,900	647	0	139	8,500	0	0	19,139	
538 B9	AFFDL AFTI INLET	SIPT 9.1 79	S. BROWN	1	61.6	28.6	17.6	30.0	0.0	3.0	1,729	60	275	3,969	539	392	4,900	62,000	1,000	0	931	65,000	0	0	129,931	
540 B4	AEDC TRANSDUC WALL	BRPT 9.2 79	J. MENDON	1	40.3	20.3	18.9	20.0	0.0	0.0	3,021	84	535	2,511	341	248	3,100	40,000	3,000	0	1,113	110,000	0	0	158,113	
539 C0	JCMPO ALCH ENGINE	FSIT 9.3 79	P. LAUER	1	121.0	44.5	33.8	56.8	0.0	20.0	3,427	275	953	11,016	1,496	1,088	13,600	180,000	2,000	0	2,255	128,000	0	0	312,255	
543 CB	ADTC MAAM II	WIST 10.1 79	C. BURCHFIELD	1	41.0	22.0	6.0	19.0	0.0	0.0	823	21	53	2,430	330	240	3,000	40,000	1,000	0	524	31,000	0	0	72,524	
544 C2	AFFDL AFTI	BALT 10.2 79	R. MEYER	1	176.9	162.9	101.5	10.0	0.0	4.0	11,206	520	12,455	7,209	979	712	8,900	118,000	0	0	3,921	421,000	0	0	542,921	
541 44	AFAPL F-16 MAB	WABT 11.1 79	E. PRICE	1	225.2	139.3	102.5	57.2	0.0	28.7	15,172	800	2,051	11,340	1,540	1,120	14,000	189,000	3,000	0	5,747	598,000	0	0	795,747	
547 A2	AEDC SKIN FRICTION	WIST 11.2 79	C. SMITH	1	30.2	11.5	9.3	10.0	0.0	0.7	1,076	79	198	4,050	550	400	5,000	67,000	2,000	0	786	39,000	0	0	108,786	
531 A0	AFFDL SOFT WING	WIST 12.1 79	S. MACLANAHAN	1	19.0	8.1	0.5	10.9	0.0	0.0	55	1	8	3,564	484	352	4,400	60,000	0	0	451	2,000	0	0	62,451	
546 43	AFAPL ADV NOZZLE	WABT 12.2 79	E. LUCAS	1	186.0	139.5	79.5	41.2	0.0	5.3	9,066	412	1,892	10,044	1,364	992	12,400	146,000	0	0	3,528	339,000	0	0	488,528	
545 42	AFFDL AEROLEASTICITY	BRPT 12.3 79	J. SPURLIN	1	20.0	2.3	2.2	17.7	0.0	0.0	186	13	105	2,268	308	224	2,600	34,000	0	0	298	7,000	0	0	41,298	
545 42	AFFDL AEROLEASTICITY	BRPT 1.1 80	J. SPURLIN	1	40.0	32.6	22.1	0.0	0.0	7.4	2,284	141	1,607	1,944	264	192	2,400	32,000	3,000	0	1,019	105,000	5,346	0	0	146,365
553 B4	AEDC 16T/AT CORR	WIST 1.2 80	P. LAUER	1	28.0	11.8	8.8	13.9	0.0	2.3	377	68	1,084	1,418	193	140	1,750	24,600	1,200	0	316	17,700	1,935	0	0	45,752
549 B3	AFFDL AFTI	BRPT 1.3 80	P. MEYER	1	100.9	84.8	42.5	18.9	0.0	3.2	5,582	161	1,265	4,779	649	472	5,900	76,000	6,000	0	2,452	255,000	13,907	0	0	353,357
552 E1	ASD ALCH (BOEING)	BRPT 1.4 80	D. WEIDUNILT	1	53.3	27.9	21.3	16.0	0.0	9.4	1,789	116	1,127	3,645	495	360	4,500	56,000	6,000	0	1,062	84,000	4,576	0	0	151,636
550 D9	AFFDL AFTI	BRPT 1.5 80	L. HERRINGTON	1	65.2	44.3	20.8	16.6	0.0	4.1	2,989	74	470	2,349	319	232	2,900	37,000	2,000	0	1,148	118,000	7,265	0	0	166,213
549 B4	AEDC 16T CALIBRATION	WIST 2.1 80	L. ROBERTSON	1	2.5	2.5	2.5	0.0	0.0	0.0	290	12	85	405	55	40	500	6,980	340	0	148	12,970	4.0	0	20,242	
550 D9	AFFDL F-111 AFTI	BALT 2.2 80	L. HERRINGTON	1	77.9	74.1	38.2	0.0	0.0	4.0	4,470	230	4,497	4,293	583	424	5,300	68,000	6,000	0	2,126	218,200	12,152	0	0	306,478
531 A0	AEDC SOFT WING	WIST 2.3 80	S. MACLANAHAN	1	45.4	13.6	10.1	39.0	0.0	1.8	1,157	35	377	2,025	275	200	2,500	34,000	6,000	0	677	53,000	2,230	0	0	95,977
555 E0	AFFDL ASA	BRPT 2.4 80	S. MACLANAHAN	1	56.1	43.5	29.7	9.7	0.0	2.9	3,292	179	2,290	2,786	378	275	3,440	44,300	3,000	0	1,405	145,800	7,134	0	0	201,634
555 E0	AFFDL ASA	BALT 3.1 80	S. MACLANAHAN	1	20.5	20.3	9.2	0.0	0.0	0.2	897	55	612	859	117	85	1,060	13,700	1,000	0	436	45,200	3,329	0	0	63,665
561 E5	AEDC 16T IMPROVEMENTS	WIST 3.2 80	S. BROWN	1	25.4	8.1	7.9	17.0	0.0	0.0	318	16	87	1,134	154	112	1,400	18,000	1,000	0	233	13,000	1,328	0	0	33,561
559 D4	AEDC 16T CALIBRATION	WIST 3.3 80	H. HILLS	1	23.0	22.3	22.2	0.0	0.0	0.4	2,431	115	766	3,564	484	352	4,400	62,100	3,100	0	1,305	114,200	3,657	0	0	184,762
563 B4	AEDC 16T CALIBRATION	WIST 3.4 80	S. BROWN	1	10.9	9.5	10.0	0.0	0.0	0.3	712	0	404	1,620	220	160	2,000	26,000	1,400	0	457	23,400	1,558	0	0	64,557
560 E3	ASD TENAYANK (80)	BRPT 3.5 80	E. McDILL	1	141.0	97.2	65.4	34.6	0.0	9.2	6,117	332	4,353	3,969	539	392	4,900	65,000	4,000	0	1,535</					

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TEST PROJ A.F. SPONSOR	TITLE	TYPE	PD	FY	P.E.	ENTP	OSH	UOH	ADM	I/R	DOWNTIME		MANHOURS				COST (\$)												
											SCHED	AEDC	OP	ATP	CALSPAN	SUPPORT	DT	TOTAL	LABOR	MAT.	TRAV.	PSI	ELEC	COMP	OTHER	TOTAL*			
564 E	AEDC	PRESSURE DRAG	NIST	5.3	80	C. SMITH	1	22.0	20.2	15.4	1.8	0.0	0.0	2,006	51	325	2,754	374	272	3,400	45,000	2,000	0	997	90,000	3,313	0	141,309	
551 DE	0358	NASA	E T DOOR	NIST	6.1	80	R. MEYER	1	60.0	27.9	5.3	31.1	0.0	1.0	909	23	199	3,726	506	368	4,600	66,450	4,890	0	813	40,360	4,576	0	117,088
571 ET	ASD	F-16 TAIL	PRST	6.2	80	R. HOBBS	1	70.0	56.0	40.2	10.0	0.0	4.0	5,005	124	2,054	3,240	440	320	4,000	55,000	5,000	0	2,081	226,000	9,184	0	297,265	
567 EE	AFFDL	FORWARD SWEPT WING	BAPT	6.3	80	J. NEMCOMB	1	100.0	64.8	47.3	31.5	0.0	3.7	4,313	233	2,785	5,670	770	560	7,000	98,000	5,000	0	2,204	200,000	10,627	0	315,831	
570 EE	AFFDL	ASA	BAPT	7.1	80	J. SPURLIN	1	51.5	31.3	23.4	17.6	0.0	2.6	3,044	92	1,408	2,673	363	264	3,300	47,000	3,000	0	1,353	136,000	5,133	0	192,486	
551 DE	0358	NASA	E T DOOR	NIST	7.2	80	R. MEYER	1	10.0	7.0	0.8	3.0	0.0	0.0	145	6	51	567	77	56	700	10,030	740	0	123	6,090	1,148	0	18,131
569 EE	AEDC	F-16	BAPT	7.3	80	E. LUCAS	1	76.4	41.3	35.5	30.0	0.0	5.1	4,293	108	1,322	4,678	638	464	5,800	84,000	5,000	0	2,059	194,000	6,773	0	291,832	
549 EA	AEDC	16T CALIBRATION	NIST	7.4	80	L. ROBERTSON	1	1.5	1.5	1.5	0.0	0.0	0.0	129	1	10	243	33	24	300	3,960	200	0	87	7,780	246	0	12,273	
573 EA	USAF	FORCE TEST, PH I	NIST	7.5	80	P. LAUER	1	144.1	119.5	69.8	18.8	0.0	5.8	6,879	675	11,447	6,804	924	672	8,400	121,000	3,351	0	3,203	316,000	19,598	0	463,153	
568 EA	ASD	F-5B	BAPT	8.1	80	H. SANDERS	1	82.1	41.2	32.5	32.1	0.0	8.8	3,648	172	3,169	3,726	506	368	4,600	66,000	4,000	0	1,717	166,000	6,757	0	244,474	
574 EE	AFFDL	F-16 AFTI	BALT	9.1	80	R. MEYER	1	65.0	55.5	35.2	5.0	0.0	4.5	4,148	212	4,632	2,430	330	240	3,000	55,000	4,000	0	1,797	188,000	9,102	0	257,899	
562 EI	USAF	FORCE TEST, PH II	NIST	9.2	80	P. LAUER	1	108.2	82.5	61.7	22.4	0.0	3.3	7,540	597	10,119	5,508	748	544	6,800	99,000	3,374	0	3,225	341,000	13,530	0	460,130	
572 EE	NASA	SMITTLE J. SX	BAPT	9.3	80	J. BLACK	1	84.1	52.1	33.1	27.2	0.0	2.8	5,473	155	667	4,860	660	480	6,000	90,000	7,000	0	2,466	242,000	8,544	0	350,011	
573 EI	ADTC	ANPAAN (RAYTHEON)	BALT	10.1	80	S. BROWN	1	120.1	74.5	56.8	29.3	0.0	2.8	5,270	1,085	14,587	7,209	979	712	8,900	132,000	5,000	0	2,772	244,000	12,218	0	395,990	
579 EI	ASD	F-16/ANPAAN	BALT	10.2	80	S. MACLANNAN	1	30.0	16.0	10.7	13.8	0.0	0.2	1,322	97	1,328	1,863	253	184	2,300	34,000	1,000	0	691	60,000	2,624	0	98,315	
578 EI	ASD	F-16 HORIZ/USER	BALT	10.3	80	R. HOBBS	1	183.2	159.0	90.5	11.2	0.0	13.2	11,181	713	14,723	7,452	1,912	736	9,200	132,000	4,893	0	4,677	506,000	26,076	0	673,646	
549 EA	AEDC	16T CALIBRATION	NIST	11.1	80	L. ROBERTSON	1	2.8	2.8	1.3	0.0	0.0	0.0	166	0	0	211	29	21	260	3,430	180	0	75	6,750	459	0	10,695	
581 EI	BMD	MI SHROUD	BAPT	12.1	80	J. RIDDELL	1	24.0	9.5	7.0	14.0	0.0	0.5	854	38	584	2,511	341	248	3,100	45,000	1,000	0	618	39,000	1,558	0	87,176	
551 DE	0358	NASA	E T DOOR	NIST	12.2	80	R. MEYER	1	65.3	31.4	6.9	33.9	0.0	0.0	1,179	42	360	4,860	660	480	6,000	86,520	6,370	0	1,058	52,550	5,150	0	151,648
580 EE	USAF	FORCE TEST, PH III	NIST	12.3	80	P. LAUER	1	137.3	106.3	85.6	22.0	0.0	9.0	10,124	387	5,462	7,938	1,078	784	9,800	142,000	12,000	0	4,452	458,000	17,433	0	633,885	
580 EE	0130	BMD	MI	PRST	12.4	80	D. REICHENAU	1	4.0	0.0	0.0	4.0	0.0	0.0	0	0	2,511	341	248	3,100	49,000	0	0	356	0	0	0	49,356	
580 EE	0130	BMD	MI	BALT	1.1	81	D. REICHENAU	1	24.1	23.8	20.4	19.9	0.0	14.7	2,445	228	2,864	3,000	980	190	4,170	63,900	1,531	0	1,484	135,800	9,009	0	211,704
580 EE	0130	BMD	MI	PRST	1.2	81	D. REICHENAU	1	114.0	34.7	29.1	20.0	0.0	15.0	4,277	222	1,537	4,270	1,390	270	3,930	91,000	2,184	0	2,088	193,800	12,848	0	301,919
576 EE	0218	ASD	F-5E INLET	SIPT	1.3	81	E. McDILL	1	121.8	100.6	71.4	15.4	0.0	16.8	7,139	399	2,400	6,800	2,480	380	9,660	141,000	3,972	0	3,797	377,000	23,368	0	549,137
551 DE	0358	NASA	E T DOOR	NIST	3.1	81	P. MEYER	1	21.3	16.8	5.3	3.5	0.0	1.0	985	28	370	2,920	110	90	3,120	51,000	890	0	850	65,000	5,233	0	122,973
588 EE	0621	AEDC	TUNNEL/FLIGHT	BAPT	3.2	81	J. SPURLIN	1	51.0	34.4	23.2	15.8	0.0	0.8	2,987	112	1,291	3,450	1,000	250	4,700	69,000	1,710	0	1,635	154,000	10,069	0	236,405
587 EI	0619	AEDC	16T IMPROVEMENTS	NIST	3.3	81	F. JACKSON	1	20.3	8.3	6.3	12.0	0.0	0.0	322	32	929	1,350	200	30	1,580	15,100	288	0	276	22,520	1,592	0	39,860
587 EI	0619	AEDC	16T IMPROVEMENTS	NIST	4.1	81	F. KEENEY	1	31.9	19.7	15.8	12.0	0.0	0.2	1,007	126	3,145	1,690	120	20	1,830	37,900	724	0	692	56,500	4,258	0	100,074
584 EE	0622	NASA	FIN RUDDER	NIST	4.3	81	R. HOBBS	1	48.2	37.4	8.8	8.8	0.0	1.6	1,200	22	257	3,930	150	240	4,320	64,000	1,171	0	1,119	88,700	6,888	0	161,879
590 EE	0626	AFMIL	EJECTION SEAT	NIST	5.1	81	P. RIDDELL	1	47.0	17.5	14.4	23.5	0.0	4.2	1,339	104	1,562	3,160	160	550	3,870	60,900	1,250	0	1,195	102,100	7,333	0	172,798
592 EE	0136	ASD	F-16 PENGUIN	PRST	5.2	81	J. BERGMAN	1	41.5	16.3	14.2	14.6	0.0	5.3	1,636	82	607	2,560	100	90	2,750	41,300	1,143	0	1,093	107,800	6,726	0	158,062
592 EE	0139	ASD	F-16 PENGUIN	BALT	5.3	81	J. BERGMAN	1	15.1	14.3	7.4	0.8	0.0	5.3	840	63	940	1,330	50	50	1,430	21,510	596	0	570	56,130	3,505	0	82,360
584 EE	0624	USAF	FORCE TEST, PH IV	NIST	5.4	81	P. LAUER	1	157.0	126.5	71.2	18.5	0.0	11.9	7,559	679	10,493	7,190	1,120	570	9,880	128,200	5,353	0	5,117	569,800	21,455	0	739,957
594 EE	0625	NASA	NASA SEADS	PRST	6.1	81	H. MATT	1	120.5	30.9	36.4	50.4	0.0	29.2	4,792	283	2,041	7,190	160	30	7,380	110,400	3,571	0	3,414	355,300	21,008	0	491,693
597 EE	0628	NASA	EXTERNAL TANK	NIST	6.2	81	P. MEYER	1	22.0	10.7	3.1	10.9	0.0	0.4	403	6	204	2,920	110	90	3,120	50,500	617	0	589	29,900	3,627	0	85,273
595 EE	0628	ASD	F-16 ECP 350 INLET	SIPT	6.3	81	D. WEIDUWILT	1	188.0	76.1	56.4	57.6	0.0	34.3	7,296	559	1,751	9,450	360	120	9,940	150,600	5,308	0	5,074	541,600	31,226	0	733,809
592 EE	0136	ASD	F-16 PENGUIN	BALT	7.1	81	J. BERGMAN	1	101.3	80.7	38.6	14.6	0.0	6.0	4,662	374	5,584	6,950	270	230	7,450	112,190	3,106	0	2,969	292,860	18,276	0	429,398
602 EE	0631	AEDC	16T IMPROVEMENTS	NIST	7.2	81	T. HOLT	1	2.9	2.9	0.5	0.0	0.0	0.0	114	0	0	260	310	10	580	8,810	110	0	105	5,580	549	0	15,255
597 EE	0628	AEDC	16T IMPROVEMENTS	NIST	7.3	81	P. STICH	1	4.0	4.0	2.4	0.0	0.0	0.0	254	8	230	620	310	10	940	14,920	255	0	244	18,380	1,502	0	35,302
600 EE	0627	AEDC	16T IMPROVEMENTS	NIST	8.1	81	M. CARLETON	1	6.3	6.3	1.9	0.0	0.0	0.0	134	0	9	2,810	616	15	3,435	33,030	487	0	465	10,450	2,864	0	67,296
590 EE	0628	AEDC	16T IMPROVEMENTS	NIST	8.2	81	P. STICH	1	17.0	6.4	5.5	4.9	0.0	5.7	545	16	451	1,430	720	30	2,180	34,190	585	0	559				

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TEST PROJ	A.F.	SPONSOR	TITLE	TYPE	PD	FY	P.E.	ENTR	OSM	UON	ADM	I/R	SCHED	AEDC	MMH	DP	ATP	DOWNTIME		MANHOURS		COST (\$)									
																		CALE	SUPP	GT	TOTAL	LABOR	MAT.	TRAV.	PSI	ELEC	COMP	OTHER	TOTAL*		
608	02	C020	NASA	E T DOOR	NIST	11.4	81	R. MEYER	1	10.0	3.5	0.2	6.5	0.0	0.0	13	2	89	1,160	10	39	1,200	17,700	113	0	108	1,090	663	0	15,584	
594	25	C126	AFMIL	F-111 ADAPTIVE WING	BALT	12.1	81	R. MEYER	1	55.9	29.9	17.7	12.1	0.0	11.5	2,367	125	1,260	3,500	40	69	3,900	58,200	1,791	0	1,712	175,300	10,533	0	247,536	
611	0A	C398	SD	TITAN HTF	NIST	12.2	81	S. MACLANAHAN	1	15.6	5.2	4.4	10.4	0.0	0.0	629	40	443	2,590	80	46	2,710	43,900	693	0	662	46,400	4,074	0	53,725	
607	06	C609	ARMY	MARTIN LOAD	BALT	12.3	81	R. RIDDLE	1	34.0	9.1	5.4	23.5	0.0	1.4	710	32	534	3,050	410	76	3,530	57,500	844	0	807	52,600	4,967	0	116,719	
598	09	C027	AFAMRL	EJECTION SEAT	BALT	12.4	81	F. GUYTON	1	48.0	14.9	8.6	30.5	0.0	2.6	880	41	214	4,050	280	30	4,330	72,500	1,066	0	1,019	66,500	5,270	0	147,355	
609	01	C613	ARMY	SADARM	NIST	12.5	81	D. REICHENAU	1	59.4	54.3	8.1	5.1	0.0	0.0	675	122	993	3,870	470	200	4,540	74,300	934	0	893	47,500	5,495	0	129,121	
605	39	C400	AFMIL	LRCS INLET	SIPT	12.6	81	D. WEIDUNWILT	1	40.0	0.0	0.0	4.0	0.0	0.0	0	0	0	1,782	242	176	2,200	36,000	276	0	264	0	1,624	0	38,164	
600	26	C127	AEDC	16T IMPROVEMENTS	NIST	12.6	81	W. CARLETON	1	0.4	0.0	0.3	0.0	0.0	0.4	20	0	0	440	100	5	545	8,370	77	0	73	1,650	452	0	10,622	
605	39	C400	AFMIL	LRCS INLET	SIPT	1.1	82	D. WEIDUNWILT	1	113.8	49.7	34.1	47.7	0.0	16.4	4,154	350	1,148	7,180	440	430	8,050	133,100	3,396	0	3,246	309,700	19,975	29,963	499,380	
615	0M	C647	USAF	RTD 400	NIST	1.2	82	J. BLACK	1	120.8	83.4	51.4	33.4	0.0	4.0	4,137	453	7,607	5,870	990	340	7,200	118,800	3,367	0	3,219	320,300	19,808	29,712	495,267	
610	33	C364	USAF	FLIGHT CORRELATION	NIST	1.3	82	P. LAUER	1	148.3	92.8	60.4	53.2	0.0	2.3	4,205	533	8,939	14,490	2,450	820	17,760	300,600	4,845	0	4,631	331,200	28,501	42,752	712,530	
616	0M	C684	USAF	RTD 401	NIST	3.1	82	J. BLACK	1	179.5	108.4	65.6	58.3	0.0	12.8	4,993	579	9,765	7,780	1,310	450	9,540	155,300	4,279	0	4,090	398,700	25,172	37,758	629,300	
612	0K	C401	AFMIL	ATTAC	BAPT	4.1	82	R. MEYER	1	91.2	58.8	35.8	25.5	0.0	6.9	2,956	317	2,941	9,712	322	242	10,276	171,797	0	0	197	233,954	27,701	5,964	439,613	
620	0R	C691	AEDC	16T IMPROVEMENTS	BALT	4.2	82	F. KEENEY	1	4.3	4.3	1.7	0.0	0.0	0.0	198	24	213	1,020	154	13	1,187	21,884	157	0	54	15,516	8,628	1,950	48,189	
617	0S	C694	AEDC	16T IMPROVEMENTS	BAPT	4.3	82	R. RIDDLE	1	3.9	2.6	2.7	0.0	0.0	1.3	309	10	141	842	1	10	853	14,617	0	0	35	22,015	1,000	545	38,212	
622	01	C613	ARMY	SADARM II	NIST	4.4	82	D. REICHENAU	1	43.9	17.0	4.5	19.9	0.0	7.0	521	29	755	7,956	592	242	8,790	143,579	36	0	5,829	40,000	6,545	2,862	198,851	
625	1A	C728	AEDC	16T IMPROVEMENTS	NIST	5.1	82	F. JACKSON	1	3.6	2.8	2.1	0.0	0.0	0.8	182	13	104	1,530	150	30	1,710	28,300	324	0	310	14,000	1,908	2,862	47,795	
621	0U	C708	ASD	F-16 HSIP	PRST	5.2	82	J. BERGMAN	1	120.2	42.1	28.1	35.0	0.0	8.0	2,978	127	1,416	5,323	17	183	5,523	89,568	0	0	150	244,812	24,349	5,270	364,149	
621	0U	C708	ASD	F-16 HSIP	BALT	5.3	82	J. BERGMAN	1	36.0	27.3	9.5	8.5	0.0	7.8	964	86	988	1,800	6	62	1,868	30,281	0	0	52	82,765	8,232	1,782	123,112	
618	0L	C660	AFATL	MODULAR FUSE	NIST	5.4	82	R. LAUER	1	24.0	3.9	2.2	20.1	0.0	0.0	92	34	190	2,648	338	20	3,006	49,935	0	0	421	8,020	1,740	734	60,850	
624	0B	C604	USAF	381 INLET I	NIST	5.5	82	P. LAUER	1	96.2	52.4	33.8	41.0	0.0	2.8	2,577	245	2,573	5,853	1,191	527	7,581	129,609	1,625	0	1,339	205,757	15,819	8,427	252,574	
619	0T	C399	AFMIL	STOL NOZZLE	NABT	6.1	82	C. SMITH	1	232.7	124.3	39.8	81.3	0.0	27.1	3,502	268	1,539	12,948	156	622	13,726	234,889	202	1,186	490	275,318	31,218	11,342	556,645	
617	0S	C694	AEDC	16T IMPROVEMENTS	NIST	7.1	82	R. RIDDLE	1	4.6	4.6	4.4	0.0	0.0	0.0	440	33	465	1,371	3	16	1,390	23,821	0	0	57	35,877	1,632	888	62,275	
613	3B	C392	AFMIL	IR/RCS	NIST	7.2	82	B. PETERS	1	277.0	93.1	53.8	168.0	0.0	15.9	6,088	266	2,114	23,117	5,480	1,924	30,529	530,309	55,817	0	13,698	467,915	37,722	27,762	1,133,253	
624	1C	C741	ASD	B-18	BAPT	8.1	82	J. SPURLIN	1	129.2	84.4	46.5	33.3	0.0	11.5	5,833	244	2,985	9,338	101	307	9,746	160,608	0	0	172	444,716	24,483	13,935	643,914	
629	1E	C744	ASD	B-18 INLET	SIPT	8.2	82	R. RIDDLE	1	238.7	109.1	73.4	106.4	0.0	23.2	9,294	372	1,921	17,167	936	917	19,020	326,427	2,256	542	7,055	708,181	28,380	24,806	1,097,647	
629	3I	C362	AEDC	16T CALIBRATION	NIST	9.1	82	M. MILLS	1	4.5	4.5	2.0	0.0	0.0	0.0	109	3	0	150	0	0	150	2,600	89	0	85	9,000	523	785	13,082	
630	1H	C664	ARMY	LOAD PLUME	NABT	9.2	82	R. RIDDLE	1	80.7	15.3	10.7	64.2	0.0	1.2	1,197	33	626	5,470	685	103	6,258	104,598	26	0	1,840	89,162	5,038	3,950	294,614	
638	0R	C691	AEDC	16T IMPROVEMENTS	NIST	10.1	82	F. KEENEY	1	3.3	3.3	3.0	0.0	0.0	0.0	385	21	183	1,800	271	24	2,095	38,620	277	0	95	24,380	15,225	3,442	82,039	
631	1B	C757	ASD	F-16 NSER	BALT	10.2	82	J. BERGMAN	1	102.3	22.4	17.0	25.0	0.0	30.9	1,809	135	1,237	4,685	60	233	4,978	85,712	0	0	870	133,382	6,926	4,883	231,773	
637	1F	C793	ASD	F-16 NJP	BALT	10.3	82	R. MEYER	1	45.5	29.5	23.6	0.0	0.0	16.0	2,671	162	2,948	2,484	80	68	2,632	46,025	0	0	69	195,925	7,831	6,283	256,133	
633	1K	C545	ASD	F-16/ANRAAN	BALT	10.4	82	J. BERGMAN	1	46.0	39.3	25.4	0.0	0.0	10.7	2,591	168	2,813	2,874	249	186	3,309	56,071	0	0	149	191,704	4,068	6,268	258,260	
636	1M	C792	ASD	F-16 HSIP	BALT	10.5	82	R. HOBBS	1	234.2	191.5	112.1	0.0	0.0	24.9	12,022	1,095	19,816	11,325	399	569	12,293	208,695	0	0	1,582	885,258	41,414	31,158	1,168,157	
635	1F	C750	ARMY	TERMINAL VAN	NIST	11.1	82	J. BERGMAN	1	28.0	26.8	1.0	1.2	0.0	0.0	89	18	0	1,650	23	15	1,688	29,924	0	0	291	4,270	757	1,913	37,155	
639	1S	CA08	AEDC	16T IMPROVEMENTS	NIST	1.1	83	M. NESBITT	1	13.8	13.7	6.0	0.0	0.0	0.1	505	0	0	1,640	90	45	1,775	39,720	584	0	558	37,400	3,434	5,151	85,846	
641	1U	C993	ASD	F-16 IL	BALT	1.2	83	S. MACLANAHAN	1	73.6	44.0	25.0	19.7	0.0	11.9	2,588	257	2,918	7,764	783	307	8,854	158,370	40	0	1,680	193,117	26,174	23,926	483,367	
625	1A	C728	AEDC	16T IMPROVEMENTS	NIST	1.3	83	M. NESBITT	1	2.3	2.3	1.2	0.0	0.0	0.0	48	0	0	530	200	10	740	13,800	137	0	130	4,000	803	1,204	20,074	
639	1S	CA08	AEDC	16T IMPROVEMENTS	NIST	1.4	83	M. NESBITT	1	1.2	1.2	0.4	0.0	0.0	0.0	10	0	0	110	10	5	2,380	39	0	37	750	229	344	3,179		
640	1A	C963	ALC	ALD-119	NIST	1.5	83	T. GARRETT	1	73.6	3.2	2.6	28.8	0.0	0.0	292	21	193	3,792	247	9	4,048	71,931	2,967	0	572	21,425	2,861	8,350	108,306	
643	1F	C750	ARMY	TERMINAL VAN	NIST	1.6	83	J. BERGMAN	1																						

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TEST PROJ	A.F. SPONSOR	TITLE	TYPE	PD	FY	P.E.	DOWNTIME										MANHOURS										COST (\$)									
							ENTR	OSH	UOH	ADN	I/R	SCHED	AEDC	MMH	EP	ATP	CALSPAN	SUPPORT	DT	TOTAL	LABOR	MAT.	TRAV.	PSI	ELEC	COMP	OTHER	TOTAL								
650	ZB	C946	AEDC	16T IMPROVEMENTS	NIST	7.2	83	P. STICH	3	18.7	7.8	6.7	10.9	0.0	0.0	701	33	596	2,270	640	40	2,950	52,000	0	0	2,541	51,800	6,391	10,832	123,564						
658	ZJ	CAS8	USAF	H66-105	NIST	7.3	83	J. RIDDELL	1	156.7	110.1	53.4	41.5	0.0	1.8	4,726	387	4,065	10,396	2,055	657	13,108	234,962	0	0	635	354,427	30,793	44,593	665,410						
654	OW	C719	USAF	HPT-610	NIST	8.1	83	J. BLACK	1	264.8	95.9	49.3	155.0	0.0	13.9	5,800	563	8,944	20,477	6,889	2,349	29,715	357,509	43,539	8,598	7,396	424,117	35,220	91,745	1,168,124						
656	ZH	C632	USAF	JBL-500	NIST	9.1	83	S. MACLANAHAN	1	108.5	49.1	15.4	47.4	0.0	0.0	393	119	2,593	3,233	737	853	4,023	86,784	0	0	1,214	127,325	8,617	16,502	240,442						
660	ZH	C674	ASD	F-16 FLOW VII	NIST	9.2	83	K. O'CONNELL	1	24.5	8.0	2.8	16.5	0.0	0.0	332	27	281	2,340	20	50	2,410	43,400	519	0	496	24,300	3,054	4,581	76,351						
653	01	C720	USAF	HPT-411	NIST	10.1	83	S. MACLANAHAN	1	165.5	97.4	54.8	55.0	0.0	13.0	6,969	649	9,942	13,412	4,520	2,331	20,263	374,469	11,550	2,276	12,432	508,176	28,187	73,243	1,010,333						
657	1T	C989	USAF	SIT-741	NIST	10.2	83	D. WEIDWILIT	1	215.9	116.1	67.6	75.0	0.0	4.8	8,365	489	5,146	14,961	3,068	3,279	21,308	389,745	9,748	2,779	11,255	609,396	54,914	73,184	1,151,011						
659	ZH	C954	ASD	B-18	BAPT	11.1	83	C. BURCHFIELD	1	215.9	108.2	64.7	38.0	0.0	57.7	8,480	409	5,921	9,688	80	1,854	11,602	219,268	0	0	1,568	615,039	36,988	51,229	924,092						
663	ZH	C955	ASD	C-17	BAPT	12.1	83	J. SPURLIN	1	196.9	125.0	100.7	55.0	0.0	8.5	13,480	1,080	11,226	14,260	720	2,600	17,580	336,100	2,300	178	7,801	1,001,400	34,000	12,000	1,393,779						
663	ZH	C955	ASD	C-17	BAPT	1.1	84	J. SPURLIN	1	160.4	143.0	101.2	0.0	0.0	25.8	13,924	1,643	15,804	7,820	160	1,680	9,660	190,622	2,300	178	6,109	994,667	34,000	12,000	1,239,876						
664	ZF	C409	AFWAL	AFSI SIMULATOR	BAPT	1.2	84	D. REICHENAU	1	133.4	71.4	20.1	62.0	0.0	0.0	1,680	143	1,330	14,623	3,231	767	18,621	360,971	77,293	2,982	15,456	121,092	16,621	59,087	653,502						
667	ZV	C682	USAF	B6-103	NIST	2.1	84	E. HICKLE	1	228.3	150.4	87.9	31.7	0.0	37.5	6,499	800	14,400	11,051	1,558	1,605	14,214	263,789	956	858	5,784	491,077	20,575	51,498	834,637						
666	OE	C607	USAF	RTD-384	NIST	2.2	84	P. LAUER	1	402.5	211.3	91.0	161.5	0.0	29.7	6,898	944	10,528	17,603	2,810	3,837	24,250	459,458	240	0	3,254	519,745	40,982	61,921	1,084,600						
668	ZC	C990	USAF	SET-101 PH II	NIST	5.1	84	E. LUCAS	1	164.0	89.8	35.4	67.5	0.0	6.7	2,527	77	949	14,413	3,801	2,169	20,383	386,728	10,831	3,597	6,979	191,734	25,444	62,535	687,448						
672	3E	C952	ASD	F-16 LANTIRN	BAPT	5.2	84	T. BARRÉTT	1	70.0	6.6	3.8	63.3	0.0	0.1	343	10	72	3,704	40	389	4,133	77,801	0	0	447	25,345	6,726	17,863	128,182						
669	ZI	C817	ASD	F-16/PEACE HARBOR II	BAPT	5.3	84	K. O'CONNELL	1	99.0	57.4	23.3	23.7	0.0	17.9	2,825	209	2,078	7,077	114	1,118	8,309	160,457	21,807	0	2,341	203,630	26,342	33,487	448,064						
673	OR	C691	AEDC	16T IMPROVEMENTS	NIST	6.1	84	F. KEENEY	1	8.0	1.6	1.3	6.4	0.0	0.0	161	70	940	780	118	10	908	16,735	120	0	41	11,865	6,598	1,492	36,851						
634	1N	C779	IBRL	LAVI INLET	SIPT	6.2	84	J. BERGMAN	1	199.5	48.5	31.0	64.0	0.0	47.0	3,408	142	3,300	10,151	1,441	1,982	13,574	264,360	0	2,362	6,123	247,568	18,222	55,335	593,930						
671	ZH	C956	ASD	B-18 INLET	SIPT	6.3	84	J. RIDDELL	1	276.7	153.3	97.6	113.8	0.0	9.6	10,567	565	2,192	17,157	1,450	2,732	21,339	414,017	3,536	0	6,978	768,575	34,160	106,364	1,333,690						
674	ZH	C833	USAF	GRA-110	NIST	7.1	84	R. MEYER	1	119.7	88.4	42.1	30.0	0.0	1.3	4,623	500	7,600	5,838	387	1,160	7,385	141,623	0	0	3,434	335,852	9,621	37,757	528,287						
675	3I	C679	USAF	LG-81	NIST	7.2	84	D. SCHALLER	1	224.8	59.2	34.6	162.9	0.0	2.7	3,414	219	1,110	7,095	1,641	1,518	10,255	194,803	0	0	5,321	250,396	22,373	37,612	510,515						
676	ZB	C873	USAF	SIT-742	NIST	8.1	84	E. STANTON	1	447.9	250.8	81.7	173.7	0.0	23.7	8,323	579	2,610	12,808	1,527	4,716	19,051	366,211	469	3,094	3,349	608,519	51,319	77,827	1,110,788						
680	3H	C891	ORC	HARSEN MOBILE LAUN	NIST	9.1	84	R. HOBBS	1	150.3	39.7	20.9	95.8	0.0	7.0	3,088	80	341	5,682	863	1,109	7,654	145,877	23,628	0	2,506	219,599	11,589	30,410	433,609						
681	ZJ	C881	ASD	F-16 LANTIRN	PRST	9.2	84	K. O'CONNELL	1	108.0	38.7	18.8	56.5	0.0	12.8	2,776	79	272	5,206	74	750	6,030	113,781	0	0	679	197,395	7,959	24,172	343,986						
661	ZP	C660	AFWAL	STOL EXHAUST NOZZLE	NAPT	9.3	84	C. SMITH	1	238.0	85.2	20.5	134.7	0.0	16.6	2,686	115	691	9,072	717	2,391	12,180	250,210	298	2,071	1,444	191,733	18,888	38,539	503,183						
679	ZH	C893	USAF	SET-101 PH II	NIST	9.4	84	B. PETERS	1	377.5	210.2	80.5	140.5	0.0	8.4	6,724	469	3,572	11,330	1,402	4,515	17,247	340,300	2,054	381	4,013	501,183	64,753	69,895	982,579						
674	3L	C888	ASD	F-16/FWU-1108	NAPT	10.1	84	F. GUYTON	1	216.0	65.4	24.8	143.0	0.0	25.8	3,162	345	1,015	7,444	250	1,642	9,336	185,921	1,411	0	2,418	228,402	6,206	34,501	458,859						
653	3T	C619	USAF	R6-106	NIST	10.2	84	R. MEYER	1	157.4	84.7	46.6	62.0	0.0	10.7	6,011	337	5,462	5,134	757	1,498	7,389	144,746	1,818	0	3,162	431,337	16,751	39,324	637,138						
686	1C	C773	AEDC	16T IMPROVEMENTS	NIST	10.3	84	B. CARLETON	1	112.0	25.4	4.0	86.6	0.0	0.0	629	20	199	12,813	2,779	2,048	17,640	370,573	17,457	0	14,202	44,562	2,455	45,838	495,087						
695	3A	C819	USAF	HPT-610, PH II	NIST	11.1	84	J. BLACK	1	239.0	76.7	30.7	154.4	0.0	7.9	3,744	125	2,700	8,441	962	3,391	12,794	269,069	4,520	2,270	1,224	269,734	33,166	39,420	619,403						
684	3D	C841	AEDC	16T DIFFUSER PERF	NIST	1.2	85	J. SPURLIN	1	129.1	71.3	27.1	95.0	0.0	1.8	2,856	323	1,197	12,385	393	1,006	13,784	269,795	93	0	7,563	146,125	11,332	50,898	485,806						
682	3L	C818	AEDC	MAAS 1/4 SC. F-16	NIST	1.3	85	R. HOBBS	1	125.0	9.2	6.0	115.8	0.0	0.0	676	41	256	8,905	1,300	1,421	11,626	228,335	1,269	0	8,666	34,019	9,863	36,090	318,242						
681	3C	C891	ASD	F-16 LANTIRN PH. 3	BAPT	2.1	85	K. O'CONNELL	1	142.4	48.9	19.2	99.5	0.0	5.0	2,117	198	421	4,325	129	368	4,822	93,036	0	0	1,248	106,166	7,477	22,575	250,502						
681	3J	C881	ASD	F-16 LANTIRN PH. 3	BAPT	2.2	85	K. O'CONNELL	1	140.8	28.3	19.4	106.6	0.0	5.9	2,020	157	1,958	4,370	131	371	4,872	94,005	0	0	1,260	107,272	7,555	22,811	232,903						
690	01	C850	USAF	HPT-714	NIST	2.3	85	J. BLACK	1	552.7	365.7	155.5	169.5	0.0	17.5	16,100	1,012	16,448	19,295	2,416	3,507	25,218	487,178	0	2,017	5,422	822,356	65,835	143,548	1,526,356						
691	02	C865	USAF	SIT-743	NIST	3.1	85	E. STANTON	1	138.0	58.1	35.9	79.1	0.0	0.6	4,031	152	1,330	7,867	792	1,100	9,759	186,901	0	0	2,025	204,494	1,587	55,818	453,357						
688	3V	C880	USAF	GRFL-E2, PH. 1 & 2	NIST	3.2	85	J. BERGMAN	1	631.5	398.4	106.4	292.5	0.0	24.6	10,181	455	6,811	25,107	3,012	6,903	35,022	672,516	14,191	5,071	24,258	511,490	50,909	147,038	1,445,453						
692	04	C886	ASD	F-16 LANTIRN INLET	SIPT	4.1																														

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TEST PROJ	A.F.	SPONSOR	TITLE	TYPE	PD	FY	P.E.	ENTR	OSH	UDN	ADM	T/R	SCHED	AEDC	MWh	DP	ATP	MANHOURS				COST (\$)								
																		CALSPAN	SUPPORT	OT	TOTAL	LABOR	MAT.	TRAV.	PEI	ELEC	COMP	OTHER	TOTAL*	
702	12	CD76	USAF	PFD 85	NIST	12.1	85	J. BERGMANN	1	521.3	305.4	74.5	91.7	59.6	64.6	7,111	436	7,017	11,401	1,890	5,247	18,538	385,153	3,171	0	7,955	361,552	12,067	82,076	871,870
711	20	CE17	ASD	ACES EJECTION SEAT	NIST	12.3	86	D. REICHENAU	1	101.0	0.0	0.0	101.0	0.0	0.0	0	0	0	4,656	591	751	5,998	129,609	11,400	0	1,621	0	4,945	12,810	166,385
702	12	CD76	USAF	PFD-85	NIST	1.1	86	J. BERGMANN	1	7.0	2.0	0.7	5.0	0.0	0.0	63	9	27	1,863	117	131	2,111	41,794	580	0	449	3,269	1,534	6,671	54,597
704	03	CC80	USAF	SSD-718	NIST	1.2	86	H. KIBER	1	607.1	474.4	226.6	241.2	0.0	91.5	17,556	2,463	45,282	28,463	5,672	7,606	41,741	871,861	21,487	2,246	19,675	923,041	26,267	263,003	2,067,580
708	19	CE01	ASD	F-16 NCID FORCE PH I	BAPT	2.1	86	R. MEYER	1	241.4	132.9	68.5	75.5	0.0	33.0	7,519	678	11,366	7,749	426	1,410	9,585	219,851	5,961	0	4,379	427,888	19,503	63,788	741,369
708	19	CE01	ASD	F-16 NCID FORCE PH I	PRST	2.2	86	R. MEYER	1	39.4	37.9	18.9	0.0	0.0	1.5	2,247	64	595	2,138	118	389	2,645	34,816	944	0	693	67,760	3,068	10,101	117,403
710	15	CD88	USAF	FSD-116	NIST	2.5	86	S. McLANAHAN	1	77.0	11.7	8.2	65.3	0.0	0.0	723	44	187	4,999	1,095	827	6,921	141,600	377	0	417	37,477	2,522	23,240	205,174
707	17	CD98	ASD	F-16 NCID INLET	SIPT	3.1	86	C. BURCHFIELD	1	262.3	154.9	82.7	86.8	0.0	20.6	10,024	476	3,183	10,874	1,440	2,838	15,152	311,477	1,361	0	13,730	505,497	15,417	81,419	928,921
709	36	CC09	AFMIL	ANFAL/AEDC-129	DYST	4.1	86	T. BUCHANAN	1	141.0	19.9	7.2	121.1	0.0	0.0	662	0	0	12,794	1,836	1,097	15,727	319,150	23,478	0	2,358	54,250	3,467	39,903	446,464
709	36	CC09	AFMIL	ANFAL/AEDC-129	BALT	4.2	86	T. BUCHANAN	1	79.0	35.4	11.6	43.6	0.0	0.0	970	162	1,584	2,845	408	247	3,500	89,606	12,473	0	1,253	28,820	1,947	21,198	155,192
712*	18	C728	AEDC	16T IMPROVEMENTS	NIST	4.3	86	B. MILAM	1	3.0	3.0	0.9	0.0	0.0	109	13	39	2,119	23	27	2,169	53,112	518	0	0	5,432	263	5,919	66,244	
705	13	CD80	AFMIL	F-15/F-110 STOL	NABT	4.5	86	C. SMITH	1	732.5	406.2	188.0	253.3	6.2	66.8	19,251	1,551	15,295	24,287	808	5,692	30,787	650,217	1,809	1,703	6,923	984,246	37,512	168,136	1,850,946
704	14	CD82	ASD	F-15/F-110 DRAG	NABT	5.1	86	R. RIDDELL	1	140.8	113.2	26.6	26.7	0.0	0.9	2,234	171	725	5,773	14	968	6,755	144,307	109	0	189	144,412	4,382	31,351	324,950
713	21	CE26	USAF	MNH-986	NIST	5.2	86	D. SCHALLER	1	169.1	64.8	6.2	104.3	0.0	0.0	575	33	329	7,002	2,352	1,121	10,475	211,053	395	1,290	3,792	29,639	4,941	31,920	283,050
714	25	CE97	USAF	SCU-86	NIST	6.1	86	J. SPURLIN	1	274.0	191.0	55.3	82.0	1.0	0.0	5,941	800	8,432	10,221	1,746	1,333	13,300	265,037	0	0	3,397	302,511	19,445	63,805	653,995
718	28	CE99	USAF	SIT-323	NIST	7.1	86	J. RIDDELL	1	503.8	313.3	162.8	176.5	3.4	10.6	21,589	879	7,265	18,380	1,565	4,241	24,186	503,350	0	514	11,519	1,081,622	48,710	152,767	1,798,462
716	27	CE98	USAF	HP-414	NIST	7.2	86	J. BLACK	1	542.6	316.2	196.0	179.5	0.0	46.9	17,759	712	14,370	18,764	1,999	3,979	24,742	528,619	921	854	8,445	918,377	49,881	146,393	1,653,490
719	29	CE99	ASD	F-16 NCID INLET	SIPT	8.1	86	C. BURCHFIELD	1	184.6	87.8	41.2	82.6	0.0	14.2	5,613	304	1,973	8,131	418	1,807	10,356	220,452	3,713	0	5,855	280,675	6,003	48,985	365,683
723	23	CE51	AEDC	16T HAAS/CTS CALIBRAT	NIST	12.1	86	E. LUCAS	1	247.0	10.8	7.9	214.3	0.0	21.9	582	103	975	10,881	64	404	11,349	244,298	2,370	0	1,486	127,635	5,412	43,973	425,194
721	30	CF56	ASD	F-16 CANOPY LOADS	PRST	12.2	86	R. MEYER	1	161.0	74.5	27.0	77.7	0.0	8.8	2,137	293	2,678	6,371	283	297	6,951	144,613	1,175	0	553	112,074	4,985	32,760	296,160

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16S TEST STATISTICS DATA BASE

ITEMS IN THE DATABASE

01-Dec-86

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TEST PROJ	A.F. SPONSOR	TITLE	TYPE	PD	FY	P.E.	ENTR	OSH	UON	AGN	I/R	DOWNTIME		HOURS				COST (\$)						TOTAL*					
												SCHED	AEDC	OP	ATP	CALSPAN	SUPPORT	OT	TOTAL	LABOR	MAT.	TRAV.	PSI		ELEC	COMP	OTHER		
169	63	ASD	B-1 INLET PH. 3	SIPS	1.1	75	P. LAUER	1	256.0	215.4	144.6	0.0	0.0	40.0	21,995	347	2,403	2,947	400	291	3,639	30,531	4,807	0	434	25,074	0	0	60,846
170	13	NASA	PANEL FLUTTER	FLTS	3.1	75	C. RIDDLE	1	48.0	43.8	34.0	0.0	0.0	4.2	4,749	40	1,520	4,779	649	472	5,900	50,000	1,000	0	496	18,000	0	0	69,496
169	63	ASD	B-1 INLET PH. 3	SIPS	4.1	75	P. LAUER	1	144.0	132.0	99.7	0.0	0.0	11.6	15,702	186	1,026	7,620	1,035	753	9,408	78,960	12,432	0	1,124	64,848	0	0	157,364
172	94	ARMY	PLUME EFFECTS	NABS	5.1	75	J. RIDDELL	1	16.0	11.7	7.5	0.0	0.0	4.3	1,199	25	337	748	102	74	923	5,010	243	0	87	3,641	0	0	11,981
171	88	AOTC	AIR SLEM	NABS	5.2	75	B. PETERS	1	96.0	87.7	43.4	3.6	0.0	4.7	4,450	82	827	2,076	282	205	2,563	21,153	249	0	707	76,255	0	0	98,364
175	22	ASD	F-16	BALS	11.1	75	M. WHITE	1	64.0	43.7	22.5	12.0	0.0	4.3	4,128	69	1,032	1,163	158	115	1,436	12,768	268	0	254	22,166	0	0	35,456
174	24	ASD	F-16 .05-SCALE INLET	SIPS	11.2	75	P. LAUER	1	32.0	29.2	20.7	0.0	0.0	2.8	3,721	92	402	2,617	355	258	3,231	27,643	361	0	346	20,104	0	0	48,454
173	93	AFFDL	ADVANCED TECH. WING	BALS	1.1	76	J. SPURLIN	1	51.7	37.7	26.4	0.0	0.0	14.0	4,553	40	727	1,786	243	176	2,205	19,740	210	0	640	68,040	0	0	88,630
176	18	AFAPL	PROPULSION SIMULATOR	MISS	4.1	76	J. RIDDELL	1	48.0	39.1	5.2	2.0	0.0	6.9	858	27	102	1,704	231	168	2,104	19,200	480	0	201	8,000	0	0	27,881
177	88	ASD	F-16	BALS	4.2	76	M. WHITE	1	80.0	67.5	30.2	2.2	0.0	10.3	4,934	87	1,234	1,905	259	188	2,352	21,600	120	0	584	58,320	0	0	89,204
178	82	ASD	RESEARCH INLET	SIPS	5.1	76	J. WALKER	1	48.0	46.8	28.7	0.0	0.0	1.2	4,898	128	529	4,137	562	409	5,108	49,610	410	0	644	38,540	0	0	99,204
179	29	ASD	B-1 AFT END BUFFET	NABS	1.1	76	B. PETERS	1	64.0	57.4	19.8	0.0	0.0	6.3	3,374	49	245	2,075	282	205	2,562	24,780	630	0	397	29,190	0	0	54,997
181	84	NAVY	F-18 INLET	SIPS	3.1	76	P. LAUER	1	144.0	62.7	61.8	24.2	0.0	57.1	10,757	166	680	7,695	1,045	760	9,500	88,700	1,977	0	1,889	172,400	0	0	264,966
180	86	AFFDL	SUPERSONIC CONFIG.	PNSS	1.1	77	J. SPURLIN	1	16.0	10.6	6.9	0.0	0.0	5.4	927	6	139	454	62	45	560	544	116	0	110	14,720	0	0	15,490
180	86	AFFDL	SUPERSONIC CONFIG.	BALS	1.1	77	J. SPURLIN	1	80.0	65.7	36.7	3.0	0.0	11.3	5,679	110	1,611	2,381	323	235	2,940	2,856	607	0	580	77,280	0	0	81,323
182	00	AEDC	16S CHECKOUT	MISS	8.1	78	M. NESBITT	1	35.0	34.5	16.0	0.0	0.0	0.5	1,099	0	0	2,103	286	298	2,596	30,096	371	0	354	18,880	0	0	49,701
183	36	AEDC	16S CHECKOUT	MISS	10.1	78	M. NESBITT	1	14.0	8.0	4.7	0.0	0.0	6.0	466	10	10	558	76	55	689	8,480	120	0	115	7,420	0	0	16,135
183	36	AEDC	16S CHECKOUT	MISS	12.1	78	M. NESBITT	1	16.5	16.5	4.1	0.0	0.0	0.0	407	9	9	495	67	49	611	7,520	107	0	102	6,580	0	0	14,309
184	36	AEDC	COMPRESSOR CHECKOUT	MISS	6.1	79	M. NESBITT	1	17.5	14.8	11.2	0.0	0.0	2.7	1,048	40	40	1,539	209	152	1,900	26,000	1,000	0	423	38,000	0	0	65,423
185	44	AEDC	COMPRESSOR CAL.	MISS	11.1	79	M. NESBITT	1	19.8	19.7	11.9	0.0	0.0	0.1	1,039	35	35	1,755	242	176	2,200	30,000	1,000	0	525	42,000	0	0	73,525
186	25	AEDC	TUNNEL CALIBRATION	MISS	1.1	80	M. NESBITT	1	2.8	0.0	1.3	0.0	0.0	2.9	244	8	120	39	5	4	68	5,760	360	0	116	9,960	712	0	16,907
186	25	AEDC	TUNNEL CALIBRATION	MISS	3.1	80	M. NESBITT	1	14.9	10.3	9.3	0.0	0.0	4.6	1,554	82	1,250	280	39	29	352	42,240	2,640	0	848	73,040	5,219	0	123,987
187	23	AFFDL	ADV. NOZZLE	NABS	4.1	80	C. BURCHFIELD	1	124.9	72.3	48.8	32.6	0.0	18.5	9,385	200	1,790	7,695	1,045	760	9,500	132,000	10,000	0	3,764	414,000	23,000	0	582,764
188	85	AFFDL	ASA	BAPS	5.2	80	J. SPURLIN	1	55.3	34.0	20.3	16.6	0.0	4.7	3,278	87	1,600	2,916	396	288	3,600	50,000	3,000	0	1,424	145,000	8,763	0	208,188
190	88	ASD	F16 PAVE PENNY/H.T.	BALS	7.1	80	S. MACLANAHAN	1	60.0	54.0	34.4	2.0	0.0	4.0	6,341	208	4,160	3,078	418	304	3,800	54,000	6,000	0	2,438	279,000	15,004	0	336,442
189	82	ASD	F-36	BAPS	8.1	80	M. SANDERS	1	139.0	67.7	58.1	38.6	0.0	32.7	11,787	209	4,200	6,399	869	632	7,900	114,000	12,000	0	4,561	517,000	15,000	0	662,561
192	88	ASD	F-16 ECP 350	BALS	10.1	80	S. MACLANAHAN	1	36.0	8.8	7.2	22.9	0.0	4.3	1,496	68	1,360	2,430	330	240	3,000	42,000	3,000	0	783	66,000	2,000	0	113,783
191	89	ASD	F-56 INLET	SIPS	11.1	80	H. McDILL	1	105.0	76.8	64.5	5.3	0.0	22.9	12,450	183	1,340	8,991	1,221	888	11,100	166,000	14,000	0	5,220	547,000	26,000	0	758,220
193	82	AFFDL	LOW RADAR CROSS SECT.	SIPS	1.1	81	D. WIEDUMILT	1	144.1	96.4	53.8	30.6	0.0	17.1	10,325	223	2,370	7,371	1,001	728	9,100	139,000	11,000	0	4,776	521,000	18,000	0	693,776
194	83	AFMPL	NASA F-18 NAB	NABS	2.1	81	C. BURCHFIELD	1	108.0	55.1	30.4	42.7	0.0	10.2	5,370	110	990	6,399	869	632	7,900	123,000	8,000	0	2,856	272,000	9,000	0	414,856
195	84	C774	C2145 CALIBRATION	MISS	9.1	83	M. NESBITT	1	41.6	38.3	20.5	0.0	0.0	3.3	1,737	33	33	3,000	300	200	3,500	50,000	4,000	0	900	70,000	2,200	8,000	135,000
195	84	C774	16S COMPRESS CAL	MISS	4.1	84	M. NESBITT	1	21.5	16.7	13.0	0.0	0.0	4.0	968	66	587	12,789	221	489	13,499	265,981	80	0	4,018	203,800	14,792	42,338	531,909
196	85	C775	16S TEST SECTION	MISS	4.2	84	M. MILLS	1	188.2	93.7	62.0	30.2	0.0	41.1	9,074	157	2,395	17,539	497	1,493	19,529	361,903	834	0	1,954	645,043	28,725	69,094	1,108,153
197	26	C899	SIT-224	MISS	11.1	84	T. RIDDLE	1	276.1	149.1	0.0	112.2	0.0	14.8	1,188	122	1,554	13,027	2,240	1,380	16,647	404,122	5,417	0	8,430	79,443	27,338	47,164	571,619
198	97	C842	SUPER. HARM DRAG	BALS	12.1	84	E. NICKLE	1	55.7	13.1	6.6	41.0	0.0	1.6	1,066	12	240	5,454	97	179	5,730	113,290	1,455	0	489	75,406	5,678	17,653	213,971
200	86	C838	SIT-524 STATIC	MISS	7.1	85	S. JOHNSON	3	414.0	221.4	0.0	186.0	0.0	6.6	1,801	304	1,901	12,549	1,317	3,500	17,566	351,715	59	3,557	82,685	23,166	65,764	530,779	
202	11	C811	F-16 NCID	BAPS	3.1	86	R. MEYER	1	196.7	52.4	27.3	135.1	0.0	9.2	5,109	205	1,469	7,151	210	1,126	8,487	176,963	0	0	580	249,282	5,774	42,161	474,870
201	11	C899	F-16 NCID INLET	SIPS	4.1	86	C. BURCHFIELD	1	96.8	23.3	10.3	72.3	0.0	1.2	2,092	62	455	5,831	4	1,028	6,863	144,359	0	0	3,877	102,268	2,811	26,433	279,766

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APPENDIX B

Work Phase Database Examples

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TUNNEL 4T WORK PHASE DATABASE

66-Aug-86 68 = PROJECTS IN THE DATABASE

HOURS

COSTS (\$)

A.F.	CAL	TEST	TYPE	DATE	FY	ENTRS	DSH	UDH	ADH	1/R	MMH	OP	ATP	PHASE	CALSPAN	SUPPORT	OVER	TOTAL	LABOR	PURCH.	TRAVEL	PSI	ELEC.	AMDAL	DEC 10	OTHER	TOTAL*
C008	-21	692	DVSC	3.6	81	1	66.5	40.0	23.6	26.1	1,013	76	232	1	71	0	0	71	845	0	0	0	0	0	0	0	845
C008	-21	692	DVSC	3.6	81	1	66.5	40.0	23.6	26.1	1,013	76	232	2	0	0	0	0	0	0	0	0	0	0	0	0	0
C008	-21	692	DVSC	3.6	81	1	66.5	40.0	23.6	26.1	1,013	76	232	3	0	0	0	0	0	0	0	0	0	0	0	0	0
C008	-21	692	DVSC	3.6	81	1	66.5	40.0	23.6	26.1	1,013	76	232	4	0	0	0	0	0	0	0	0	0	0	0	0	0
C008	-21	692	DVSC	3.6	81	1	66.5	40.0	23.6	26.1	1,013	76	232	5	735	0	0	735	10,374	0	0	0	21,004	436	1,951	0	33,765
C008	-21	692	DVSC	3.6	81	1	66.5	40.0	23.6	26.1	1,013	76	232	6	46	0	0	46	671	0	0	0	0	0	0	0	671
C008	-21	692	DVSC	3.6	81	1	66.5	40.0	23.6	26.1	1,013	76	232	7	322	0	0	322	4,145	0	0	0	0	0	0	0	4,145
C008	-21	692	DVSC	3.6	81	1	66.5	40.0	23.6	26.1	1,013	76	232	8	198	0	0	198	2,817	0	0	0	0	0	0	586	3,403
C008	-21	692	DVSC	3.6	81	1	66.5	40.0	23.6	26.1	1,013	76	232	TOTAL	1,372	0	0	1,372	18,852	0	0	0	21,004	436	1,951	586	62,829
C014	-16	689	PRSC	11.6	81	1	63.6	15.2	12.6	46.0	675	56	768	1	67	0	0	67	1,124	0	0	0	0	0	0	0	1,124
C014	-16	689	PRSC	11.6	81	1	63.6	15.2	12.6	46.0	675	56	768	2	33	0	0	33	661	0	0	0	0	0	0	0	661
C014	-16	689	PRSC	11.6	81	1	63.6	15.2	12.6	46.0	675	56	768	3	329	0	0	329	4,745	0	0	224	0	0	0	0	4,969
C014	-16	689	PRSC	11.6	81	1	63.6	15.2	12.6	46.0	675	56	768	4	1,591	0	0	1,591	25,076	0	0	64	0	0	0	0	25,142
C014	-16	689	PRSC	11.6	81	1	63.6	15.2	12.6	46.0	675	56	768	5	487	0	0	487	7,628	0	0	12	45,762	2,198	3,308	0	58,900
C014	-16	689	PRSC	11.6	81	1	63.6	15.2	12.6	46.0	675	56	768	6	22	0	0	22	320	0	0	0	0	0	0	0	320
C014	-16	689	PRSC	11.6	81	1	63.6	15.2	12.6	46.0	675	56	768	7	0	0	0	0	0	0	0	0	0	0	0	0	0
C014	-16	689	PRSC	11.6	81	1	63.6	15.2	12.6	46.0	675	56	768	8	421	0	0	421	7,649	0	0	0	0	0	0	1,129	8,778
C014	-16	689	PRSC	11.6	81	1	63.6	15.2	12.6	46.0	675	56	768	TOTAL	2,950	0	0	2,950	47,263	0	0	302	45,762	2,198	3,308	1,129	99,894
C432	-15	722	C/B	7.2	82	1	58.0	33.0	22.6	24.0	794	259	4,220	1	191	0	0	191	3,458	0	0	0	0	0	0	46	3,499
C432	-15	722	C/B	7.2	82	1	58.0	33.0	22.6	24.0	794	259	4,220	2	298	0	0	298	5,820	0	0	0	0	0	0	68	5,888
C432	-15	722	C/B	7.2	82	1	58.0	33.0	22.6	24.0	794	259	4,220	3	0	159	0	159	2,354	0	0	0	0	0	0	31	2,585
C432	-15	722	C/B	7.2	82	1	58.0	33.0	22.6	24.0	794	259	4,220	4	1,468	209	17	1,694	27,648	0	0	20	89	0	322	28,079	
C432	-15	722	C/B	7.2	82	1	58.0	33.0	22.6	24.0	794	259	4,220	5	778	18	86	882	14,719	0	0	19	60,691	257	13,213	1,896	90,795
C432	-15	722	C/B	7.2	82	1	58.0	33.0	22.6	24.0	794	259	4,220	6	42	0	0	42	648	0	0	0	0	0	0	9	657
C432	-15	722	C/B	7.2	82	1	58.0	33.0	22.6	24.0	794	259	4,220	7	0	0	0	0	0	0	0	0	0	0	0	0	0
C432	-15	722	C/B	7.2	82	1	58.0	33.0	22.6	24.0	794	259	4,220	8	506	0	0	506	7,593	0	0	0	0	599	0	92	8,284
C432	-15	722	C/B	7.2	82	1	58.0	33.0	22.6	24.0	794	259	4,220	TOTAL	3,283	386	103	3,772	62,432	0	0	39	60,691	945	13,213	2,458	139,778
C437	-14	723	BALC	6.2	82	1	48.2	17.0	10.5	23.8	368	153	1,654	1	166	0	0	166	3,292	0	0	0	0	561	0	38	3,891
C437	-14	723	BALC	6.2	82	1	48.2	17.0	10.5	23.8	368	153	1,654	2	226	0	0	226	3,830	0	0	0	0	0	0	45	3,875
C437	-14	723	BALC	6.2	82	1	48.2	17.0	10.5	23.8	368	153	1,654	3	0	298	8	306	4,761	0	0	87	0	0	0	60	4,988
C437	-14	723	BALC	6.2	82	1	48.2	17.0	10.5	23.8	368	153	1,654	4	1,778	0	23	1,801	30,225	0	0	15	0	30	0	349	30,619
C437	-14	723	BALC	6.2	82	1	48.2	17.0	10.5	23.8	368	153	1,654	5	652	4	44	700	11,474	0	0	20	28,129	0	3,363	914	43,900
C437	-14	723	BALC	6.2	82	1	48.2	17.0	10.5	23.8	368	153	1,654	6	38	0	0	38	622	0	0	0	0	0	0	7	629
C437	-14	723	BALC	6.2	82	1	48.2	17.0	10.5	23.8	368	153	1,654	7	0	0	0	0	0	0	0	0	0	0	0	0	0
C437	-14	723	BALC	6.2	82	1	48.2	17.0	10.5	23.8	368	153	1,654	8	710	2	0	712	12,121	0	0	0	0	371	0	142	12,634
C437	-14	723	BALC	6.2	82	1	48.2	17.0	10.5	23.8	368	153	1,654	TOTAL	3,570	304	75	3,949	66,325	0	0	122	28,129	962	3,363	1,353	100,456

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TUNNEL 16T WORK PHASE DATABASE

27-Aug-86

68 = PROJECTS IN THE DATABASE

A.F.	CAL	TEST	TYPE	DATE	FY	ENTRS	OSH	UOH	ADM	I/R	MMN	OP	ATP	MANHOURS				COSTS (\$)										
														PHASE	CALSPAN	SUPPORT	OVER	TOTAL	LABOR	PURCH.	TRAVEL	PSI	ELEC	AMDAHL	DEC 10	OT-ER	TOTAL*	
C391	-1B	627	MIST	2.1	83	1	418.0	316.3	139.5	98.0	3,558	1,418	6,868	1	528	0	0	528	11,976	1,350	0	0	0	0	0	403	13,729	
C391	-1B	627	MIST	2.1	83	1	418.0	316.3	139.5	98.0	3,558	1,418	6,868	2	2,461	0	0	2,461	46,627	9,793	0	4,867	0	0	0	2,809	64,096	
C391	-1B	627	MIST	2.1	83	1	418.0	316.3	139.5	98.0	3,558	1,418	6,868	3	55	3,204	0	3,259	42,138	0	1,826	0	0	0	1,452	45,416		
C391	-1B	627	MIST	2.1	83	1	418.0	316.3	139.5	98.0	3,558	1,418	6,868	4	9,163	271	215	9,649	173,703	1,586	1,827	4,799	0	6,707	0	21,946	210,566	
C391	-1B	627	MIST	2.1	83	1	418.0	316.3	139.5	98.0	3,558	1,418	6,868	5	12,118	13	1,726	13,857	253,895	1,359	0	4,037	218,422	2,130	39,412	55,036	574,251	
C391	-1B	627	MIST	2.1	83	1	418.0	316.3	139.5	98.0	3,558	1,418	6,868	6	327	0	65	392	6,482	0	0	0	0	0	0	941	7,423	
C391	-1B	627	MIST	2.1	83	1	418.0	316.3	139.5	98.0	3,558	1,418	6,868	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C391	-1B	627	MIST	2.1	83	1	418.0	316.3	139.5	98.0	3,558	1,418	6,868	8	1,812	0	7	1,819	33,698	0	420	0	0	0	0	4,364	38,482	
C391	-1B	627	MIST	2.1	83	1	418.0	316.3	139.5	98.0	3,558	1,418	6,868	TOTAL	26,464	3,488	2,013	31,965	568,479	14,088	2,247	15,529	218,422	8,837	39,412	86,951	953,965	
C392	-3B	613	MIST	7.2	82	1	277.0	93.1	53.8	168.0	6,088	266	2,114	1	1,498	185	0	1,683	33,977	27,371	0	2,003	0	297	0	2,740	66,388	
C392	-3B	613	MIST	7.2	82	1	277.0	93.1	53.8	168.0	6,088	266	2,114	2	2,643	4	213	2,860	54,042	835	0	2,432	0	0	0	942	58,151	
C392	-3B	613	MIST	7.2	82	1	277.0	93.1	53.8	168.0	6,088	266	2,114	3	621	3,272	671	4,564	69,544	361	0	2,226	0	0	0	888	73,019	
C392	-3B	613	MIST	7.2	82	1	277.0	93.1	53.8	168.0	6,088	266	2,114	4	10,031	1,366	479	11,876	204,678	27,251	0	5,101	0	4,105	0	8,368	249,443	
C392	-3B	613	MIST	7.2	82	1	277.0	93.1	53.8	168.0	6,088	266	2,114	5	5,816	25	520	6,361	109,586	0	106	467,914	4,918	14,231	14,151	610,906		
C392	-3B	613	MIST	7.2	82	1	277.0	93.1	53.8	168.0	6,088	266	2,114	6	504	0	18	522	8,646	0	0	12	0	0	0	100	8,758	
C392	-3B	613	MIST	7.2	82	1	277.0	93.1	53.8	168.0	6,088	266	2,114	7	4	0	0	4	62	0	0	0	0	0	0	1	63	
C392	-3B	613	MIST	7.2	82	1	277.0	93.1	53.8	168.0	6,088	266	2,114	8	2,003	637	24	2,664	49,756	0	0	1,815	0	14,171	0	734	66,476	
C392	-3B	613	MIST	7.2	82	1	277.0	93.1	53.8	168.0	6,088	266	2,114	TOTAL	23,120	5,489	1,925	30,534	530,291	55,818	0	13,695	467,914	23,491	14,231	27,764	1,133,204	
C399	-0T	619	NABT	6.1	82	1	232.7	124.3	39.8	81.3	3,502	268	1,539	1	327	0	0	327	6,577	0	0	0	0	0	0	76	6,653	
C399	-0T	619	NABT	6.1	82	1	232.7	124.3	39.8	81.3	3,502	268	1,539	2	576	0	0	576	12,130	202	0	0	0	0	0	157	12,489	
C399	-0T	619	NABT	6.1	82	1	232.7	124.3	39.8	81.3	3,502	268	1,539	3	90	148	0	238	3,964	0	0	0	0	0	0	45	4,009	
C399	-0T	619	NABT	6.1	82	1	232.7	124.3	39.8	81.3	3,502	268	1,539	4	4,803	0	31	4,834	82,853	0	1,186	254	0	2,433	0	1,850	88,576	
C399	-0T	619	NABT	6.1	82	1	232.7	124.3	39.8	81.3	3,502	268	1,539	5	6,333	9	575	6,917	117,709	0	0	235	275,317	11,876	14,451	9,054	428,642	
C399	-0T	619	NABT	6.1	82	1	232.7	124.3	39.8	81.3	3,502	268	1,539	6	125	0	4	129	2,069	0	0	0	0	0	0	24	2,093	
C399	-0T	619	NABT	6.1	82	1	232.7	124.3	39.8	81.3	3,502	268	1,539	7	28	0	0	28	808	0	0	0	0	0	0	9	817	
C399	-0T	619	NABT	6.1	82	1	232.7	124.3	39.8	81.3	3,502	268	1,539	8	667	0	0	667	10,532	0	0	0	0	2,459	0	124	13,115	
C399	-0T	619	NABT	6.1	82	1	232.7	124.3	39.8	81.3	3,502	268	1,539	TOTAL	12,949	157	610	13,716	236,642	202	1,186	489	275,317	16,768	14,451	11,339	356,394	
C401	-0K	612	BAPT	4.1	82	1	91.2	58.8	35.8	25.5	2,956	317	2,941	1	476	0	0	476	8,751	0	0	0	0	0	0	66	8,817	
C401	-0K	612	BAPT	4.1	82	1	91.2	58.8	35.8	25.5	2,956	317	2,941	2	325	16	0	341	6,964	0	0	0	0	0	0	52	7,016	
C401	-0K	612	BAPT	4.1	82	1	91.2	58.8	35.8	25.5	2,956	317	2,941	3	8	273	8	289	4,306	0	0	9	0	0	0	19	4,334	
C401	-0K	612	BAPT	4.1	82	1	91.2	58.8	35.8	25.5	2,956	317	2,941	4	3,734	3	66	3,803	62,251	0	0	60	0	54	0	841	63,206	
C401	-0K	612	BAPT	4.1	82	1	91.2	58.8	35.8	25.5	2,956	317	2,941	5	4,058	29	169	4,256	70,454	0	0	128	233,955	6,995	18,841	4,764	335,137	
C401	-0K	612	BAPT	4.1	82	1	91.2	58.8	35.8	25.5	2,956	317	2,941	6	117	0	0	117	1,918	0	0	0	0	0	0	23	1,941	
C401	-0K	612	BAPT	4.1	82	1	91.2	58.8	35.8	25.5	2,956	317	2,941	7	18	0	0	18	301	0	0	0	0	0	0	4	305	
C401	-0K	612	BAPT	4.1	82	1	91.2	58.8	35.8	25.5	2,956	317	2,941	8	978	1	0	979	16,849	0	0	0	0	1,811	0	196	18,856	
C401	-0K	612	BAPT	4.1	82	1	91.2	58.8	35.8	25.5	2,956	317	2,941	TOTAL	9,714	322	243	10,279	171,794	0	0	197	233,955	8,860	18,841	5,965	439,612	

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TUNNEL 16S WORK PHASE DATABASE

18-Aug-86

6 PROJECTS IN THE DATABASE

HOURS

COSTS (\$)

A.F.	CAL	TEST	TYPE	DATE	FY	ENTRS	DSN	UON	ADN	I/R	MMN	OP	ATP	PHASE	CALSPAN	SUPPORT	OVER	TOTAL	LABOR	PURCH.	TRAVEL	PSI	ELEC	ARDANL	DEC 10	OTHER	TOTAL*
CE11	11	202	BAPS	3.1	86	1	186.7	52.4	27.3	135.1	5,109	205	1,469	1	0	0	0	0	0	0	0	0	0	0	0	0	0
CE11	11	202	BAPS	3.1	86	1	186.7	52.4	27.3	135.1	5,109	205	1,469	2	115	0	0	115	2,216	0	0	0	0	0	0	344	2,560
CE11	11	202	BAPS	3.1	86	1	186.7	52.4	27.3	135.1	5,109	205	1,469	3	0	199	299	498	10,354	0	0	0	0	0	0	1,372	11,926
CE11	11	202	BAPS	3.1	86	1	186.7	52.4	27.3	135.1	5,109	205	1,469	4	3,009	11	335	3,355	70,099	0	0	546	0	0	0	10,074	80,719
CE11	11	202	BAPS	3.1	86	1	186.7	52.4	27.3	135.1	5,109	205	1,469	5	3,177	0	485	3,662	76,508	0	0	34	249,392	307	5,468	27,598	359,307
CE11	11	202	BAPS	3.1	86	1	186.7	52.4	27.3	135.1	5,109	205	1,469	6	106	0	9	115	2,281	0	0	0	0	0	0	344	2,625
CE11	11	202	BAPS	3.1	86	1	186.7	52.4	27.3	135.1	5,109	205	1,469	7	0	0	0	0	0	0	0	0	0	0	0	0	0
CE11	11	202	BAPS	3.1	86	1	186.7	52.4	27.3	135.1	5,109	205	1,469	8	746	0	0	746	15,506	0	0	0	0	0	0	2,229	17,735
CE11	11	202	BAPS	3.1	86	1	186.7	52.4	27.3	135.1	5,109	205	1,469	TOTAL	7,153	210	1,128	8,491	176,964	0	0	580	249,392	307	5,468	42,161	474,872
CD38	09	200	NISS	7.1	85	3	414.0	221.4	0.0	186.0	1,801	304	1,901	1	155	0	0	155	3,266	0	0	0	0	0	0	464	3,730
CD38	09	200	NISS	7.1	85	3	414.0	221.4	0.0	186.0	1,801	304	1,901	2	362	0	20	382	8,520	0	0	0	0	0	0	1,142	9,662
CD38	09	200	NISS	7.1	85	3	414.0	221.4	0.0	186.0	1,801	304	1,901	3	0	122	22	144	2,683	0	0	0	0	0	0	453	3,138
CD38	09	200	NISS	7.1	85	3	414.0	221.4	0.0	186.0	1,801	304	1,901	4	6,524	86	1,149	7,759	153,905	0	0	2,211	0	82	0	34,395	190,593
CD38	09	200	NISS	7.1	85	3	414.0	221.4	0.0	186.0	1,801	304	1,901	5	3,770	1,081	2,121	6,972	139,691	0	0	1,596	82,485	3,348	19,774	26,115	273,169
CD38	09	200	NISS	7.1	85	3	414.0	221.4	0.0	186.0	1,801	304	1,901	6	217	0	108	325	6,533	0	0	0	0	0	0	972	7,505
CD38	09	200	NISS	7.1	85	3	414.0	221.4	0.0	186.0	1,801	304	1,901	7	867	0	40	907	22,179	0	0	0	0	0	0	0	22,179
CD38	09	200	NISS	7.1	85	3	414.0	221.4	0.0	186.0	1,801	304	1,901	8	671	0	37	708	14,694	0	3,557	0	0	0	0	2,115	20,366
CD38	09	200	NISS	7.1	85	3	414.0	221.4	0.0	186.0	1,801	304	1,901	TOTAL	12,566	1,289	3,497	17,352	351,471	0	3,557	3,807	82,485	3,390	19,774	63,638	530,362
CC42	07	198	BALS	12.1	84	1	55.7	13.1	6.6	41.0	1,066	12	240	1	279	0	0	279	6,252	0	0	0	0	0	0	669	6,921
CC42	07	198	BALS	12.1	84	1	55.7	13.1	6.6	41.0	1,066	12	240	2	30	0	0	30	827	0	0	0	0	0	0	72	899
CC42	07	198	BALS	12.1	84	1	55.7	13.1	6.6	41.0	1,066	12	240	3	0	53	49	102	2,128	0	0	249	0	0	0	193	2,572
CC42	07	198	BALS	12.1	84	1	55.7	13.1	6.6	41.0	1,066	12	240	4	2,457	30	40	2,527	49,865	0	0	213	0	0	3,713	6,082	59,873
CC42	07	198	BALS	12.1	84	1	55.7	13.1	6.6	41.0	1,066	12	240	5	1,308	16	90	1,414	27,378	0	0	33	75,406	1,561	428	6,962	111,768
CC42	07	198	BALS	12.1	84	1	55.7	13.1	6.6	41.0	1,066	12	240	6	191	0	0	191	3,547	0	0	0	0	0	0	469	4,016
CC42	07	198	BALS	12.1	84	1	55.7	13.1	6.6	41.0	1,066	12	240	7	0	0	0	0	0	0	0	0	0	0	0	0	0
CC42	07	198	BALS	12.1	84	1	55.7	13.1	6.6	41.0	1,066	12	240	8	601	0	0	601	10,397	0	0	0	0	0	0	1,795	12,192
CC42	07	198	BALS	12.1	84	1	55.7	13.1	6.6	41.0	1,066	12	240	TOTAL	4,866	99	179	5,144	100,394	0	0	495	75,406	1,561	4,161	16,244	198,241
CA99	2W	197	NISS	11.1	84	1	276.1	149.1	0.0	112.2	1,188	122	1,354	1	67	0	0	67	1,356	5	0	10	0	0	0	161	1,532
CA99	2W	197	NISS	11.1	84	1	276.1	149.1	0.0	112.2	1,188	122	1,354	2	1,325	0	476	1,801	36,930	4,815	0	3,580	0	0	0	4,808	50,133
CA99	2W	197	NISS	11.1	84	1	276.1	149.1	0.0	112.2	1,188	122	1,354	3	1,274	1,296	29	2,599	45,634	597	0	727	0	0	0	5,451	52,409
CA99	2W	197	NISS	11.1	84	1	276.1	149.1	0.0	112.2	1,188	122	1,354	4	5,171	67	367	5,605	107,878	0	0	34	0	5,838	0	13,405	127,155
CA99	2W	197	NISS	11.1	84	1	276.1	149.1	0.0	112.2	1,188	122	1,354	5	4,924	857	508	6,289	117,557	0	0	4,080	79,148	6,009	15,490	18,624	240,908
CA99	2W	197	NISS	11.1	84	1	276.1	149.1	0.0	112.2	1,188	122	1,354	6	191	0	2	193	3,734	0	0	0	0	0	0	463	4,197
CA99	2W	197	NISS	11.1	84	1	276.1	149.1	0.0	112.2	1,188	122	1,354	7	0	0	0	0	0	0	0	0	0	0	0	0	0
CA99	2W	197	NISS	11.1	84	1	276.1	149.1	0.0	112.2	1,188	122	1,354	8	78	0	0	78	1,357	0	0	0	0	0	0	187	1,544
CA99	2W	197	NISS	11.1	84	1	276.1	149.1	0.0	112.2	1,188	122	1,354	TOTAL	13,030	2,220	1,382	16,632	314,446	5,417	0	8,431	79,148	11,847	15,490	43,099	477,878

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APPENDIX C

Fiscal Year Totals

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TUNNEL 4T TEST STATISTICS

15-Dec-86

FY	TYPE	ENTR	AEDC					MANHOURS							COST (\$)							
			OSH	UOH	AOH	I/R	DOWN	MMH	OP	ATP	CALSPAN	SUPPORT	OT	TOTAL	LABOR	MATERIAL	TRAVEL	PSI	ELEC	COMP	OTHER	TOTAL*
75	ALL TESTS	62	3,192.1	2,107.7	1,420.5	760.7	212.2	64,848	11,725	306,790	113,963	9,064	6,475	129,528	1,113,281	3,590	0	10,302	378,273	0	0	1,505,409
76	ALL TESTS	65	3,032.0	1,973.1	1,321.1	837.8	184.1	56,504	10,767	241,447	118,536	9,429	6,735	134,700	1,263,000	4,893	0	14,039	845,248	0	0	2,127,180
77	ALL TESTS	16	944.4	589.7	403.0	220.5	112.8	15,829	2,530	90,372	35,068	2,790	1,993	39,850	374,170	1,425	0	4,091	240,090	0	0	619,776
77	ALL TESTS	64	3,202.4	1,853.3	1,218.2	987.7	346.4	53,456	9,641	190,613	109,982	8,749	6,249	124,980	1,297,732	4,753	0	13,639	750,363	0	0	2,066,487
78	ALL TESTS	61	3,712.3	2,417.8	1,496.9	990.6	243.0	59,375	22,001	288,245	124,934	9,938	7,099	141,970	1,639,470	5,916	0	16,975	909,620	0	0	2,571,981
79	ALL TESTS	73	3,773.2	2,063.0	1,297.8	1,444.5	254.7	54,776	21,788	258,810	131,437	10,455	7,468	149,360	1,891,370	18,804	0	26,219	2,055,940	0	0	3,992,333
80	ALL TESTS	66	3,566.6	2,154.3	1,273.9	1,317.6	242.0	53,486	17,059	275,820	141,134	11,227	8,019	160,380	2,267,770	50,010	0	33,964	2,392,470	486,872	0	5,231,086
81	ALL TESTS	49	2,455.4	1,101.9	648.7	1,202.6	147.3	26,246	11,053	128,947	110,740	14,820	6,340	131,510	1,991,910	35,400	0	23,702	1,563,870	167,708	0	3,782,590
82	ALL TESTS	34	1,891.0	1,122.4	433.0	660.7	163.3	20,179	7,335	125,321	80,684	7,667	4,338	92,384	1,617,064	14,584	0	21,760	1,541,684	218,969	131,472	3,545,533
83	ALL TESTS	31	3,380.1	2,223.6	1,129.4	919.1	271.7	44,709	33,839	601,739	142,736	14,680	11,352	168,968	3,072,287	39,238	1,350	45,917	3,317,690	480,658	735,932	7,693,071
84	ALL TESTS	23	2,268.8	1,288.7	601.9	646.6	106.8	26,116	17,340	231,655	98,302	10,578	6,593	115,473	2,225,894	10,456	148	27,117	1,858,197	201,425	377,270	4,700,507
85	ALL TESTS	31	3,354.9	1,825.4	855.4	1,286.5	230.4	38,909	17,473	294,824	104,745	11,396	15,103	131,244	2,584,715	4,330	811	28,971	1,941,602	172,042	532,414	5,264,885
86	ALL TESTS	31	4,634.6	2,406.2	1,066.9	1,814.6	343.1	43,681	30,687	408,303	150,865	20,430	18,706	190,001	3,861,623	114,132	5,213	65,915	2,179,574	161,370	742,445	7,130,272

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FY	PRODUCTIVITY				COST				MANHOURS					ELECTRICITY					
	ATP/UOH	ATP/AOH	OP/UOH	OP/AOH	\$/UOH	\$/AOH	\$/OSH	\$/OP	\$/ATP	MHR/UOH	MHR/AOH	MHR/OSH	MHR/OP	MHR/ATP	MMH/UOH	MMH/AOH	MMH/OSH	MMH/OP	MMH/ATP
75	145.56	215.97	5.56	8.25	714	1,060	472	128	5	61.45	91.18	40.58	11.05	0.42	30.77	45.65	20.32	5.53	0.21
76	122.37	182.76	5.46	8.15	1,078	1,610	702	198	9	68.27	101.96	44.43	12.51	0.56	28.64	42.77	18.64	5.25	0.23
77	153.25	224.25	4.29	6.28	1,051	1,538	656	245	7	67.58	98.88	42.20	15.75	0.44	26.84	39.28	16.76	6.26	0.18
77	102.85	156.47	5.20	7.91	1,115	1,696	645	214	11	67.44	102.59	39.03	12.96	0.66	28.84	43.88	16.69	5.54	0.28
78	119.22	192.56	9.10	14.70	1,064	1,718	693	117	9	58.72	94.84	38.24	6.45	0.49	24.56	39.67	15.99	2.70	0.21
79	125.45	199.42	10.56	16.79	1,935	3,076	1,058	183	15	72.40	115.09	39.58	6.86	0.58	26.55	42.21	14.52	2.51	0.21
80	128.03	216.52	7.92	13.39	2,428	4,106	1,467	307	19	74.45	125.90	44.97	9.40	0.58	24.83	41.99	15.00	3.14	0.19
81	117.02	198.78	10.03	17.04	3,433	5,831	1,541	342	29	119.35	202.73	53.56	11.90	1.02	23.82	40.46	10.69	2.37	0.20
82	111.65	289.42	6.54	16.94	3,159	8,188	1,875	483	28	82.31	213.36	48.85	12.59	0.74	17.98	46.60	10.67	2.75	0.16
83	270.61	532.80	15.22	29.96	3,460	6,812	2,276	227	13	75.99	149.61	49.99	4.99	0.28	20.11	39.59	13.23	1.32	0.07
84	179.76	384.87	13.46	28.81	3,647	7,809	2,072	271	20	89.60	191.85	50.90	6.66	0.50	20.27	43.39	11.51	1.51	0.11
85	161.51	344.66	9.57	20.43	2,884	6,155	1,569	301	18	71.90	153.43	39.12	7.51	0.45	21.32	45.49	11.60	2.23	0.13
86	169.69	382.70	12.75	28.76	2,963	6,683	1,538	232	17	78.96	178.09	41.00	6.19	0.47	18.15	40.94	9.42	1.42	0.11

TUNNEL 4T TEST STATISTICS

15-Dec-86

FY	TYPE	ENTR	OSH	UOH	AOH	I/R	MANHOURS										COST (\$)					
							AEDC	MMH	OP	ATP	CALSPAN	SUPPORT	OT	TOTAL	LABOR	MATERIAL	TRAVEL	PSI	ELEC	COMP	OTHER	TOTAL*
75	BALC	25	1,252.7	843.3	526.2	276.6	65.7	26,931	5,150	89,849	40,626	3,231	2,301	46,174	396,546	1,324	0	3,800	146,743	0	0	548,414
76	BALC	28	1,259.3	884.1	586.1	309.1	66.1	27,184	6,163	81,555	45,663	3,632	2,595	51,890	478,289	1,977	0	5,673	373,618	0	0	859,557
77	BALC	6	272.9	211.8	127.8	47.2	27.5	5,485	1,187	14,535	11,114	884	632	12,630	118,510	457	0	1,311	78,410	0	0	198,688
77	BALC	23	934.9	566.5	384.2	282.2	73.0	17,315	4,012	47,695	37,092	2,951	2,108	42,150	437,057	1,579	0	4,531	243,340	0	0	686,507
78	BALC	23	1,284.6	903.0	549.8	283.9	73.4	21,628	8,314	99,002	46,737	3,718	2,656	53,110	625,040	2,214	0	6,354	329,120	0	0	962,728
79	BALC	23	1,477.2	910.5	506.4	527.5	72.9	21,861	6,807	86,366	51,445	4,092	2,923	58,460	761,130	8,675	0	10,569	829,260	0	0	1,609,634
80	BALC	24	1,244.8	756.7	416.8	407.3	81.9	18,499	6,582	80,815	44,352	3,528	2,520	50,400	700,360	18,670	0	11,002	820,340	171,014	0	1,721,386
81	BALC	15	651.1	281.1	152.3	332.8	43.2	6,136	2,414	25,402	38,260	4,930	2,550	45,760	698,100	7,400	0	6,996	354,500	49,502	0	1,116,498
82	BALC	7	614.8	403.1	150.1	188.7	37.7	7,229	2,944	36,337	23,350	4,463	1,728	29,236	535,684	6,062	0	7,404	588,617	77,813	62,358	1,277,938
83	BALC	9	1,067.3	749.8	335.2	250.7	83.3	15,165	6,546	73,240	43,851	4,971	3,602	52,424	965,640	18,696	0	15,828	1,062,200	162,727	143,599	2,388,690
84	BALC	9	1,254.3	681.0	319.3	299.2	53.2	13,898	6,756	85,561	44,525	3,683	2,450	50,658	979,052	996	148	11,812	972,322	99,498	170,481	2,234,309
85	BALC	14	1,754.6	1,147.8	521.5	488.5	110.9	25,214	8,644	132,355	58,015	6,089	8,331	72,435	1,429,641	1,385	0	16,257	1,239,491	88,201	307,290	3,082,266
86	BALC	7	988.5	497.6	180.5	392.9	83.8	10,015	2,297	21,698	42,383	5,716	5,638	53,737	1,113,135	17,043	766	10,748	490,863	29,407	197,017	1,858,979

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FY	PRODUCTIVITY				COST				MANHOURS					ELECTRICITY					
	ATP/UOH	ATP/AOH	OP/UOH	OP/AOH	\$/UOH	\$/AOH	\$/OSH	\$/OP	\$/ATP	MMH/UOH	MMH/AOH	MMH/OSH	MMH/OP	MMH/ATP	MMH/UOH	MMH/AOH	MMH/OSH	MMH/OP	MMH/ATP
75	106.54	170.75	6.11	9.79	650	1,042	438	106	6	54.75	87.75	36.86	8.97	0.51	31.93	51.18	21.50	5.23	0.30
76	92.25	139.15	6.97	10.52	772	1,467	683	139	11	58.69	88.53	41.21	8.42	0.64	30.75	46.38	21.59	4.41	0.33
77	68.63	113.73	5.60	9.29	938	1,585	728	167	14	59.63	98.83	46.28	10.64	0.87	25.90	42.92	20.10	4.62	0.38
77	84.19	124.14	7.08	10.44	1,212	1,787	734	171	14	74.40	109.71	45.09	10.51	0.88	30.57	45.07	18.52	4.32	0.36
78	109.64	180.07	9.21	15.12	1,066	1,751	749	116	10	58.82	96.60	41.34	6.39	0.54	23.95	39.34	16.84	2.60	0.22
79	94.86	170.55	7.48	13.44	1,768	3,179	1,090	236	19	64.21	115.44	39.57	8.59	0.68	24.01	43.17	14.80	3.21	0.25
80	106.80	193.89	8.70	15.79	2,275	4,130	1,383	262	21	66.60	120.92	40.49	7.66	0.62	24.45	44.38	14.86	2.81	0.23
81	90.37	166.79	8.59	15.85	3,972	7,331	1,715	463	44	162.79	300.46	70.28	18.96	1.80	21.83	40.29	9.42	2.54	0.24
82	90.14	242.09	7.30	19.61	3,170	8,514	2,079	434	35	72.53	194.78	47.55	9.93	0.80	17.93	48.16	11.76	2.46	0.20
83	97.68	206.19	8.73	18.43	3,186	6,725	2,238	365	33	69.92	147.59	49.12	8.01	0.72	20.23	42.69	14.21	2.32	0.21
84	125.64	267.96	9.92	21.16	3,281	6,998	1,781	331	26	74.39	158.65	40.39	7.50	0.59	20.41	43.53	11.08	2.06	0.16
85	115.31	253.80	7.53	16.58	2,685	5,910	1,757	357	23	63.11	138.90	41.28	8.38	0.55	21.97	48.35	14.37	2.92	0.19
86	43.61	120.21	4.62	12.73	3,736	10,299	1,881	809	86	107.99	297.71	54.36	23.39	2.48	20.13	55.48	10.13	4.36	0.46

TUNNEL 4T TEST STATISTICS

26-Nov-86

FY	TYPE	ENTR	OSH	UOH	AOH	I/R	AEDC		MANHOURS							COST (\$)						
							DOWN	MMH	OP	ATP	CALSPAN	SUPPORT	OT	TOTAL	LABOR	MATERIAL	TRAVEL	PSI	ELEC	COMP	OTHER	TOTAL*
75	CTSC	17	955.1	688.5	509.5	166.4	83.9	20,634	3,387	146,518	35,096	2,795	2,002	39,899	337,060	1,119	0	3,211	133,400	0	0	474,789
76	CTSC	21	998.9	644.4	450.1	253.7	79.0	16,077	3,140	124,605	38,254	3,043	2,174	43,470	407,199	1,556	0	4,465	263,282	0	0	676,502
77	CTSC	4	509.6	311.9	237.1	89.9	41.1	8,421	1,092	74,142	20,610	1,639	1,171	23,420	220,000	832	0	2,387	138,500	0	0	361,719
77	CTSC	10	552.3	377.9	287.6	65.3	96.1	9,779	1,294	62,817	21,129	1,681	1,201	24,010	256,173	915	0	2,626	138,193	0	0	397,907
78	CTSC	7	504.9	354.9	270.7	96.1	38.0	9,033	4,265	98,873	14,837	1,180	843	16,860	187,480	764	0	2,191	141,560	0	0	331,995
79	CTSC	17	498.9	296.5	199.5	184.8	32.0	7,144	1,831	56,097	18,850	1,499	1,071	21,420	265,950	1,037	0	3,536	267,280	0	0	537,804
80	CTSC	12	529.3	341.9	203.9	156.3	20.2	8,544	1,733	64,685	21,349	1,698	1,213	24,260	348,380	1,510	0	5,442	393,950	77,269	0	826,551
81	CTSC	7	246.7	129.7	103.0	86.0	17.8	4,134	798	27,733	13,870	610	340	14,430	216,880	6,700	0	3,267	271,460	23,118	0	521,426
82	CTSC	9	302.1	188.5	83.4	96.0	28.2	2,952	1,175	30,444	15,424	711	644	16,779	285,528	410	0	7,152	277,121	35,814	20,522	626,546
83	CTSC	8	761.0	464.2	242.5	227.5	79.1	8,680	7,114	198,025	34,403	3,899	2,909	41,211	740,882	18,211	0	15,188	692,327	120,142	359,900	1,946,650
84	CTSC	3	326.3	206.3	122.9	104.3	20.4	4,118	4,545	86,557	14,445	1,589	1,606	17,640	330,094	50	0	5,147	323,070	41,730	59,024	759,115
85	CTSC	5	562.6	331.8	154.0	154.0	71.3	6,723	3,703	83,498	17,871	2,205	3,246	23,322	457,196	92	811	2,623	351,712	28,883	92,642	933,960
86	CTSC	10	1,849.2	1,065.0	538.5	578.4	168.6	18,951	21,482	289,802	55,542	5,405	5,324	66,271	1,322,799	4,193	2,566	21,044	969,515	76,953	271,409	2,668,478

PRODUCTIVITY

COST

MANHOURS

ELECTRICITY

FY	ATP/UOH	ATP/AOH	OP/UOH	OP/AOH	\$/UOH	\$/AOH	\$/OSH	\$/OP	\$/ATP	MMH/UOH	MMH/AOH	MMH/OSH	MMH/OP	MMH/ATP	MMH/UOH	MMH/AOH	MMH/OSH	MMH/OP	MMH/ATP
75	212.81	287.57	4.92	6.65	690	932	497	140	3	57.95	78.31	41.77	11.78	0.27	29.97	40.50	21.60	6.09	0.14
76	193.37	276.84	4.87	6.98	1,050	1,503	677	215	5	67.46	96.58	43.52	13.84	0.35	24.95	35.72	16.09	5.12	0.13
77	237.71	312.70	3.50	4.61	1,160	1,526	710	331	5	75.09	98.78	45.96	21.45	0.32	27.00	35.52	16.52	7.71	0.11
77	166.23	218.42	3.42	4.50	1,053	1,394	720	308	6	63.54	83.48	43.47	18.55	0.38	25.88	34.00	17.71	7.56	0.16
78	278.59	365.25	12.02	15.76	935	1,226	658	78	3	47.51	62.28	33.39	3.95	0.17	25.45	33.37	17.89	2.12	0.09
79	189.20	281.19	6.18	9.18	1,814	2,696	1,078	294	10	72.24	107.37	42.93	11.70	0.38	24.09	35.81	14.32	3.90	0.13
80	189.19	317.24	5.07	8.50	2,418	4,054	1,562	477	13	70.96	118.98	45.83	14.00	0.38	24.99	41.90	16.14	4.93	0.13
81	213.82	269.25	6.15	7.75	4,020	5,062	2,114	653	19	111.26	140.10	58.49	18.08	0.52	31.87	40.14	16.76	5.18	0.15
82	161.51	365.04	6.23	14.09	3,324	7,513	2,074	533	21	89.01	201.19	55.54	14.28	0.35	15.66	35.40	9.77	2.51	0.10
83	426.59	816.60	15.33	29.34	4,194	8,027	2,538	274	10	88.78	169.94	54.15	5.79	0.21	18.70	35.79	11.41	1.22	0.04
84	419.57	704.29	22.03	36.98	3,680	6,177	2,326	167	9	85.51	143.53	54.06	3.88	0.20	19.96	33.51	12.62	0.91	0.05
85	251.65	542.19	11.16	24.04	2,815	6,065	1,660	252	11	70.29	151.44	41.45	6.30	0.28	20.26	43.66	11.95	1.82	0.08
86	272.13	538.17	20.17	39.89	2,506	4,955	1,443	124	9	62.23	123.07	35.84	3.08	0.23	17.79	35.19	10.25	0.88	0.07

TUNNEL 4T TEST STATISTICS

26-Nov-86

FY	TYPE	ENTR	OSH	UOH	AOH	I/R	AEDC							MANHOURS				COST (\$)					
							DOWN	MM	OP	ATP	CALSPAN	SUPPORT	OT	TOTAL	LABOR	MATERIAL	TRAVEL	PSI	ELEC	COMP	OTHER	TOTAL*	
75	DYDC	2	58.3	25.1	8.1	23.8	2.5	391	53	178	643	52	36	730	6,020	19	0	53	1,990	0	0	8,044	
76	DYDC	2	70.3	51.9	13.8	8.0	6.0	1,131	126	195	4,048	322	230	4,600	44,522	147	0	420	18,608	0	0	63,697	
77	DYDC	1	26.4	11.5	6.5	11.9	35.2	340	17	43	563	45	32	640	6,000	23	0	65	3,800	0	0	9,888	
77	DYDC	5	286.8	166.6	40.7	106.0	19.7	2,905	360	538	6,222	495	354	7,070	74,816	267	0	766	40,260	0	0	116,109	
78	DYDC	5	256.6	152.3	32.7	99.3	21.6	2,257	358	696	8,923	710	507	10,140	117,940	376	0	1,079	44,070	0	0	163,465	
79	DYDC	1	38.0	12.7	1.9	25.0	0.3	202	16	16	334	27	19	380	4,900	100	0	86	8,000	0	0	13,086	
80	DYDC	3	136.4	74.1	17.4	48.7	4.0	1,378	174	189	2,077	165	118	2,360	33,500	0	0	512	37,200	16,747	0	87,958	
81	DYDC	2	91.5	28.9	5.7	48.2	14.4	301	75	75	780	20	10	810	13,200	200	0	191	15,500	1,350	0	30,440	
82	DYDC	5	212.0	137.8	21.1	75.9	14.0	1,662	262	273	6,436	216	229	6,881	115,868	94	0	3,053	84,873	12,345	4,362	220,595	
83	DYDC	3	229.8	124.4	23.9	89.0	25.5	2,009	371	371	3,690	140	350	4,180	76,100	226	0	2,587	86,500	10,841	13,157	189,411	
84	DYDC	3	206.5	128.9	22.8	65.2	9.1	1,931	260	514	10,496	3,152	1,034	14,682	277,061	9,277	0	4,601	108,545	9,128	47,813	456,425	
85	DYDC	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
86	DYDC	3	317.8	146.2	20.8	161.8	9.8	1,840	186	186	10,911	1,048	647	12,606	254,653	1,333	1,006	9,809	84,893	4,688	44,703	401,084	

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FY	PRODUCTIVITY				COST					MANHOURS					ELECTRICITY				
	ATP/UOH	ATP/AOH	OP/UOH	OP/AOH	\$/UOH	\$/AOH	\$/OSH	\$/OP	\$/ATP	MHR/UOH	MHR/AOH	MHR/OSH	MHR/OP	MHR/ATP	MWH/UOH	MWH/AOH	MWH/OSH	MWH/OP	MWH/ATP
75	7.09	21.98	2.11	6.54	320	993	138	152	45	29.08	90.12	12.52	13.77	4.10	15.57	48.23	6.70	7.37	2.19
76	3.76	14.13	2.43	9.13	1,227	4,616	906	506	327	88.63	333.33	65.43	36.51	23.59	21.79	81.95	16.09	8.98	5.80
77	3.74	6.62	1.48	2.62	860	1,521	375	582	230	55.65	98.46	24.24	37.65	14.88	29.60	52.37	12.89	20.02	7.92
77	3.23	13.22	2.16	8.85	697	2,853	405	323	216	42.44	173.71	24.65	19.64	13.14	17.44	71.38	10.13	8.07	5.40
78	4.57	21.28	2.35	10.95	1,073	4,999	637	457	235	66.98	310.09	39.52	28.32	14.57	14.82	69.02	8.80	6.30	3.24
79	1.26	8.42	1.26	8.42	1,030	6,887	344	818	818	29.92	200.00	10.00	23.75	23.75	15.91	106.32	5.32	12.63	12.63
80	2.55	10.86	2.35	10.00	1,187	5,055	645	506	465	31.85	135.63	17.30	13.56	12.49	18.60	79.20	10.10	7.92	7.29
81	2.60	13.16	2.60	13.16	1,053	5,340	333	406	406	28.03	142.11	8.85	10.80	10.80	10.42	52.81	3.29	4.01	4.01
82	1.98	12.94	1.90	12.42	1,601	10,455	1,041	842	808	49.93	326.11	32.46	26.26	25.21	12.06	78.77	7.84	6.34	6.09
83	2.98	15.52	2.98	15.52	1,523	7,925	824	511	511	33.60	174.90	18.19	11.27	11.27	16.15	84.06	8.74	5.42	5.42
84	3.99	22.54	2.02	11.40	3,541	20,019	2,210	1,755	888	113.90	643.95	71.10	56.47	28.56	14.98	84.69	9.35	7.43	3.76
85	0.00	0.00	0.00	0.00	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86	1.27	8.94	1.27	8.94	2,743	19,283	1,262	2,156	2,156	86.22	606.06	39.67	67.77	67.77	12.58	88.44	5.79	9.89	9.89

TUNNEL 4T TEST STATISTICS

26-Nov-86

MANHOURS

COST (\$)

FY	TYPE	ENTR	OSH	UOH	ADM	AEDC		MMH	OP	ATP	CALSPAN	SUPPORT	DT	TOTAL	LABOR	MATERIAL	TRAVEL	PSI	ELEC	COMP	OTHER	TOTAL*
						I/R	DOWN															
75	DYSC	6	228.4	116.7	80.8	93.3	14.9	3,563	829	5,764	8,996	713	511	10,225	89,795	271	0	778	24,970	0	0	115,814
76	DYSC	2	100.7	49.4	37.6	51.0	2.0	1,366	130	2,486	3,546	282	202	4,030	38,300	134	0	384	19,370	0	0	58,188
77	DYSC	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	DYSC	4	83.4	32.8	24.2	45.7	5.6	799	51	1,236	2,182	174	124	2,480	25,473	85	0	244	11,220	0	0	37,623
78	DYSC	3	89.2	64.5	44.9	23.0	1.5	1,513	235	3,107	4,312	343	245	4,900	55,610	181	0	518	22,220	0	0	78,529
79	DYSC	2	156.2	70.2	47.4	77.0	9.0	2,027	118	909	5,658	450	322	6,430	75,400	2,115	0	1,017	76,300	0	0	154,833
80	DYSC	5	280.2	169.6	114.4	160.0	19.3	4,665	286	1,572	17,169	1,366	976	19,510	280,160	3,000	0	3,678	208,170	38,330	0	533,338
81	DYSC	3	170.8	67.4	45.8	100.9	2.4	1,824	126	1,187	5,880	2,910	790	9,580	141,000	6,000	0	1,610	97,000	11,395	0	257,005
82	DYSC	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83	DYSC	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84	DYSC	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	DYSC	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86	DYSC	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

PRODUCTIVITY

COST

MANHOURS

ELECTRICITY

FY	ATP/UOH		OP/UOH		\$/UOH		\$/OP		\$/ATP		MMH/UOH		MMH/ADM		MMH/OSH		MMH/OP		MMH/ATP	
	ATP/UOH	ATP/ADM	OP/UOH	OP/ADM	\$/UOH	\$/ADM	\$/OSH	\$/OP	\$/ATP	MMH/UOH	MMH/ADM	MMH/OSH	MMH/OP	MMH/ATP	MMH/UOH	MMH/ADM	MMH/OSH	MMH/OP	MMH/ATP	
75	49.39	71.34	7.10	10.26	992	1,433	507	140	20	87.62	126.55	44.77	12.33	1.77	30.53	44.10	15.60	4.30	0.62	
76	50.32	66.12	2.63	3.46	1,178	1,548	578	448	23	81.58	107.18	40.02	31.00	1.62	27.66	36.34	13.57	10.51	0.55	
77	0.00	0.00	0.00	0.00	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
77	37.68	51.07	1.55	2.11	1,129	1,530	444	726	30	75.61	102.48	29.74	48.63	2.01	24.36	33.02	9.58	15.67	0.65	
78	48.17	69.20	3.64	5.23	1,218	1,749	880	334	25	75.97	109.13	54.93	20.85	1.58	23.46	33.70	16.96	6.44	0.49	
79	12.95	19.18	1.68	2.49	2,206	3,267	991	1,312	170	91.60	135.65	41.17	34.49	7.07	28.87	42.76	12.98	17.18	2.23	
80	9.27	13.74	1.69	2.50	3,145	4,662	1,903	1,865	339	115.04	170.54	69.63	68.22	12.41	27.51	40.78	16.65	16.31	2.97	
81	17.61	25.92	1.87	2.75	3,813	5,611	1,505	2,040	217	142.14	209.17	56.09	76.03	8.07	27.06	39.83	10.68	14.48	1.54	
82	0.00	0.00	0.00	0.00	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
83	0.00	0.00	0.00	0.00	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
84	0.00	0.00	0.00	0.00	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
85	0.00	0.00	0.00	0.00	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
86	0.00	0.00	0.00	0.00	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

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TUNNEL 4T TEST STATISTICS

26-Nov-86

FY	TYPE	MANHOURS										COST (\$)										
		ENTR	OSH	UOH	ADH	I/R	AEDC DOWN	MMH	OP	ATP	CALSPAN	SUPPORT	OT	TOTAL	LABOR	MATERIAL	TRAVEL	PSI	ELEC	COMP	OTHER	TOTAL*
75	GRDC	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76	GRDC	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	GRDC	9	768.4	456.3	328.5	196.4	112.8	16,319	2,719	72,191	25,511	2,029	1,450	28,990	291,290	1,206	0	3,459	228,210	0	0	524,165
78	GRDC	9	818.7	515.7	357.5	219.4	62.4	14,282	6,197	59,107	22,898	1,821	1,301	26,020	296,060	-1,177	0	3,376	210,950	0	0	511,563
79	GRDC	22	1,125.3	546.7	414.2	425.9	92.5	17,534	11,891	103,703	38,641	3,074	2,196	43,910	554,190	3,262	0	8,069	664,000	0	0	1,229,522
80	GRDC	15	908.1	543.7	369.5	338.3	83.6	13,718	6,645	90,058	35,077	2,790	1,993	39,860	570,090	5,960	0	8,783	634,220	122,876	0	1,341,930
81	GRDC	14	777.9	384.4	245.7	332.0	53.9	9,811	6,535	64,556	33,110	3,350	2,360	38,820	590,330	11,100	0	7,914	597,710	56,000	0	1,263,054
82	GRDC	11	657.7	368.4	163.6	218.1	79.6	7,653	2,883	57,618	26,604	1,222	1,718	29,544	504,332	324	0	2,984	541,477	80,965	39,232	1,169,313
83	GRDC	11	1,322.0	885.2	507.8	351.9	83.8	18,835	19,808	330,103	60,792	5,670	4,691	71,153	1,289,665	2,105	1,350	12,314	1,456,663	186,948	219,276	3,168,320
84	GRDC	4	370.3	237.5	129.4	103.7	17.1	5,750	5,753	58,722	23,570	1,783	1,057	26,410	517,501	133	0	5,357	424,926	39,991	84,854	1,072,962
85	GRDC	5	409.5	214.6	116.7	150.1	45.2	4,339	4,613	73,928	13,383	2,194	1,865	17,442	329,589	17	0	5,700	222,747	24,871	69,694	652,618
86	GRDC	4	370.3	237.5	129.4	103.7	17.1	5,750	5,753	58,722	23,570	1,783	1,057	26,410	517,501	133	0	5,357	424,926	39,991	84,854	1,072,962

PRODUCTIVITY

COST

MANHOURS

ELECTRICITY

FY	ATP/UOH	ATP/ADH	OP/UOH	OP/ADH	\$/UOH	\$/ADH	\$/OSH	\$/OP	\$/ATP	MHR/UOH	MHR/ADH	MHR/OSH	MHR/OP	MHR/ATP	MWH/UOH	MWH/ADH	MWH/OSH	MWH/OP	MWH/ATP
75	0.00	0.00	0.00	0.00	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
76	0.00	0.00	0.00	0.00	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
77	0.00	0.00	0.00	0.00	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
78	158.21	219.76	5.96	8.28	1,149	1,596	682	193	7	63.53	88.25	37.73	10.66	0.40	35.76	49.68	21.24	6.00	0.23
79	114.62	165.33	12.02	17.33	992	1,431	625	83	9	50.46	72.78	31.78	4.20	0.44	27.69	39.95	17.44	2.30	0.24
80	189.69	250.37	21.75	28.71	2,249	2,968	1,093	103	12	80.32	106.01	39.02	3.69	0.42	32.07	42.33	15.58	1.47	0.17
81	165.64	243.73	12.22	17.98	2,468	3,632	1,478	202	15	73.31	107.88	43.89	6.00	0.44	25.23	37.13	15.11	2.06	0.15
82	167.94	262.74	17.05	26.68	3,286	5,141	1,624	193	20	100.99	158.00	49.90	5.92	0.60	25.32	39.93	12.61	1.50	0.15
83	156.40	352.19	7.83	17.62	3,174	7,147	1,778	406	20	80.20	180.59	44.92	10.25	0.51	20.77	46.78	11.64	2.65	0.13
84	372.91	650.06	22.38	39.01	3,579	6,239	2,397	160	10	80.38	140.12	53.82	3.59	0.22	21.30	37.13	14.26	0.95	0.06
85	247.25	453.80	24.22	44.46	4,518	8,292	2,898	187	18	111.20	204.10	71.32	4.59	0.45	24.21	44.44	15.53	1.00	0.10
86	344.49	633.49	21.49	39.52	3,041	5,592	1,594	141	9	81.28	149.46	42.59	3.78	0.24	20.22	37.18	10.59	0.94	0.06
86	207.31	409.76	13.79	27.25	2,039	4,030	1,250	148	10	44.74	88.43	27.43	3.25	0.22	17.34	34.27	10.63	1.26	0.08

TUNNEL 4T TEST STATISTICS

26-Nov-86

MANHOURS

COST (\$)

FY	TYPE	ENTR	OSH	LOH	AOH	AEDC		MMH	OP	ATP	CALSPAN	SUPPORT	DT	TOTAL	LABOR	MATERIAL	TRAVEL	PSI	ELEC	COMP	OTHER	TOTAL*
						I/R	DOWN															
75	MASC	3	153.4	102.6	70.2	41.9	2.4	3,082	632	26,682	8,538	679	465	9,700	86,860	244	0	699	18,170	0	0	105,973
76	MASC	4	165.4	82.6	69.0	73.0	7.8	2,642	347	21,812	10,542	839	599	11,980	116,810	369	0	1,060	42,330	0	0	160,569
77	MASC	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	MASC	4	103.0	51.3	13.2	40.5	20.4	489	83	348	3,916	312	223	4,450	46,993	125	0	359	6,880	0	0	54,357
78	MASC	2	122.5	25.2	15.2	97.0	0.3	580	62	410	6,248	497	335	7,100	84,000	216	0	619	9,000	0	0	93,835
79	MASC	1	79.0	45.2	20.5	32.0	1.8	929	56	300	4,022	320	229	4,570	54,600	200	0	575	31,700	0	0	87,075
80	MASC	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81	MASC	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82	MASC	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83	MASC	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84	MASC	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	MASC	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86	MASC	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

PRODUCTIVITY

COST

MANHOURS

ELECTRICITY

FY	ATP/LOH		ATP/AOH		OP/LOH		OP/AOH		\$/LOH		\$/AOH		\$/OSH		\$/OP		\$/ATP		MMH/LOH	MMH/AOH	MMH/OSH	MMH/OP	MMH/ATP
	ATP/LOH	ATP/AOH	OP/LOH	OP/AOH	\$/LOH	\$/AOH	\$/OSH	\$/OP	\$/ATP	MMH/LOH	MMH/AOH	MMH/OSH	MMH/OP	MMH/ATP									
75	260.06	380.09	6.16	9.00	1,033	1,510	691	168	4	94.54	138.18	63.23	15.35	0.36	30.04	43.91	20.09	4.88	0.12				
76	264.07	316.12	4.20	5.03	1,944	2,327	971	463	7	145.04	173.62	72.43	34.52	0.55	31.99	38.29	15.97	7.61	0.12				
77	0.00	0.00	0.00	0.00	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
77	6.78	26.36	1.62	6.29	1,060	4,118	528	635	156	86.74	337.12	43.20	53.61	12.79	9.53	37.02	4.74	5.89	1.40				
78	16.27	26.97	2.46	4.08	3,724	6,173	766	1,513	229	281.75	467.11	57.96	114.52	17.32	23.02	38.16	4.73	9.35	1.41				
79	6.64	14.63	1.24	2.73	1,926	4,248	1,102	1,335	290	101.11	222.93	57.85	81.61	15.23	20.55	45.32	11.76	16.59	3.10				
80	0.00	0.00	0.00	0.00	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
81	0.00	0.00	0.00	0.00	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
82	0.00	0.00	0.00	0.00	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
83	0.00	0.00	0.00	0.00	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
84	0.00	0.00	0.00	0.00	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
85	0.00	0.00	0.00	0.00	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
86	0.00	0.00	0.00	0.00	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				

TUNNEL 4T TEST STATISTICS

FY	TYPE	26-Nov-86										HOURS				COST (\$)						
		ENTR	OSH	UOH	AOH	I/R	AEDC DOWN	MMH	OP	ATP	CALSPAN	SUPPORT	OT	TOTAL	LABOR	MATERIAL	TRAVEL	PSI	ELEC	COMP	OTHER	TOTAL*
75	MISC	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76	MISC	2	35.8	20.3	17.5	13.0	1.5	916	68	1,679	1,355	108	77	1,540	14,000	55	0	158	9,720	0	0	23,933
77	MISC	2	40.1	12.0	6.8	28.0	0.1	291	46	527	616	49	35	700	6,540	24	0	70	3,960	0	0	10,594
77	MISC	5	301.5	123.4	82.1	165.5	12.3	3,543	628	2,387	7,682	611	437	8,730	90,530	325	0	934	49,700	0	0	141,489
78	MISC	6	170.2	107.9	80.1	45.4	19.2	3,299	1,022	9,128	6,459	514	367	7,340	88,640	314	0	902	46,800	0	0	136,656
79	MISC	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80	MISC	1	115.6	82.1	40.3	30.1	3.4	1,759	839	29,864	4,312	343	245	4,900	74,000	13,000	0	1,089	78,000	18,555	0	184,644
81	MISC	3	255.4	68.8	42.2	184.7	1.9	1,284	289	1,789	9,640	2,340	140	12,120	182,500	1,000	0	1,709	75,400	12,091	0	272,699
82	MISC	1	41.6	7.6	5.7	34.0	0.0	184	29	143	3,331	19	3	3,353	61,075	0	0	275	14,171	5,993	1,124	82,638
83	MISC	0	-0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84	MISC	4	111.4	35.0	7.5	74.2	7.0	419	26	301	5,266	371	446	6,083	122,186	0	0	0	29,334	11,078	15,098	177,696
85	MISC	3	147.1	35.3	22.5	111.3	0.5	726	141	1,670	4,096	371	196	4,663	92,582	525	0	2,178	35,380	4,997	16,838	152,500
86	MISC	2	383.3	198.9	90.1	161.5	22.9	3,772	933	18,215	10,695	3,995	3,683	18,372	381,732	71,776	0	5,764	182,791	9,624	77,653	729,341

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FY	PRODUCTIVITY				COST				HOURS					ELECTRICITY					
	ATP/UOH	ATP/AOH	OP/UOH	OP/AOH	\$/UOH	\$/AOH	\$/OSH	\$/OP	\$/ATP	MHR/UOH	MHR/AOH	MHR/OSH	MHR/OP	MHR/ATP	MWH/UOH	MWH/AOH	MWH/OSH	MWH/OP	MWH/ATP
75	0.00	0.00	0.00	0.00	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
76	82.71	95.94	3.35	3.89	1,179	1,368	669	352	14	75.86	88.00	43.02	22.65	0.92	45.12	52.34	25.59	13.47	0.55
77	43.92	77.50	3.83	6.76	883	1,558	264	230	20	58.33	102.94	17.46	15.22	1.33	24.28	42.84	7.26	6.33	0.55
77	19.34	29.07	5.09	7.65	1,147	1,723	469	225	59	70.75	106.33	28.96	13.90	3.66	28.71	43.16	11.75	5.64	1.48
78	84.60	113.96	9.47	12.76	1,267	1,706	803	134	15	68.03	91.64	43.13	7.18	0.80	30.20	40.69	19.15	3.19	0.36
79	0.00	0.00	0.00	0.00	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	363.75	741.04	10.22	20.82	2,249	4,582	1,597	220	6	59.68	121.59	42.39	5.84	0.16	21.43	43.65	15.22	2.10	0.06
81	25.00	42.39	4.20	6.85	3,964	6,462	1,068	944	152	176.16	287.20	47.45	41.94	6.77	18.66	30.43	5.03	4.44	0.72
82	18.82	25.09	3.82	5.09	10,873	14,498	1,986	2,850	578	441.18	588.25	80.60	115.62	23.45	24.21	32.28	4.42	6.34	1.29
83	0.00	0.00	0.00	0.00	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
84	8.60	40.13	0.74	3.47	5,077	23,693	1,595	6,834	590	173.80	811.07	54.61	233.96	20.21	11.97	55.87	3.76	16.12	1.39
85	47.31	74.22	3.99	6.27	4,320	6,778	1,037	1,082	91	132.10	207.24	31.70	33.07	2.79	20.57	32.28	4.94	5.15	0.43
86	91.58	202.16	4.79	10.58	3,667	8,095	1,903	765	40	92.37	203.91	47.93	19.28	1.01	18.96	41.86	9.84	3.96	0.21

TUNNEL 4T TEST STATISTICS.

26-Nov-86

FY	TYPE	ENTR	OSH	LCH	ACH	I/R	MANHOURS							COST (\$)								
							AEDC DOWN	MMH	OP	ATP	CALSPAN	SUPPORT	OT	TOTAL	LABOR	MATERIAL	TRAVEL	PSI	ELEC	COMP	OTHER	TOTAL*
75	PRSC	6	348.8	235.7	160.1	79.2	30.7	7,952	1,261	28,337	13,286	1,055	755	15,100	131,000	409	0	1,174	36,000	0	0	168,583
76	PRSC	4	235.4	153.2	114.4	64.0	10.7	5,782	645	8,750	9,847	783	560	11,190	107,860	462	0	1,327	91,320	0	0	200,989
77	PRSC	3	95.4	42.5	24.8	43.5	8.9	1,292	188	1,125	2,165	172	123	2,460	23,120	89	0	257	15,420	0	0	38,886
77	PRSC	4	172.1	78.5	57.7	86.1	6.5	2,307	494	3,401	6,248	477	355	7,100	75,400	251	0	719	32,560	0	0	108,929
78	PRSC	3	160.7	90.0	42.3	59.0	8.8	1,734	362	4,338	4,576	364	260	5,200	58,000	194	0	335	25,400	0	0	84,149
79	PRSC	1	60.5	29.6	16.7	27.7	3.2	840	118	376	1,496	119	85	1,700	22,000	1,000	0	356	31,000	0	0	54,356
80	PRSC	4	134.9	89.3	35.9	83.3	3.9	1,363	204	1,850	7,031	539	400	7,990	112,280	870	0	1,227	62,590	20,182	0	197,149
81	PRSC	3	141.0	37.6	25.1	103.0	7.7	1,284	230	1,535	5,240	310	100	5,650	87,800	3,000	0	1,106	76,800	7,827	0	176,533
82	PRSC	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83	PRSC	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84	PRSC	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	PRSC	4	481.1	95.9	40.7	382.7	2.5	1,908	373	3,373	11,380	538	1,465	13,382	275,707	2,311	0	2,213	92,272	25,090	45,950	443,542
86	PRSC	3	272.5	52.2	28.7	197.6	22.7	1,263	595	2,291	10,744	1,929	319	12,993	264,157	2,267	0	6,323	67,866	7,021	44,911	372,544

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FY	PRODUCTIVITY				COST					MANHOURS					ELECTRICITY				
	ATP/LCH	ATP/ACH	OP/LCH	OP/ACH	\$/LCH	\$/ACH	\$/OSH	\$/OP	\$/ATP	MHR/LCH	MHR/ACH	MHR/OSH	MHR/OP	MHR/ATP	MWH/LCH	MWH/ACH	MWH/OSH	MWH/OP	MWH/ATP
75	120.22	177.00	5.35	7.88	715	1,053	483	134	6	64.06	94.32	43.29	11.97	0.53	33.74	49.67	22.80	6.31	0.28
76	57.11	76.49	4.21	5.64	1,312	1,757	854	312	23	73.04	97.81	47.54	17.35	1.28	37.74	50.54	24.56	8.96	0.66
77	26.47	43.36	4.42	7.58	915	1,568	408	207	35	57.88	99.19	25.79	13.09	2.19	30.39	52.08	13.54	6.87	1.15
77	43.32	58.94	6.29	8.56	1,388	1,888	633	221	32	90.45	123.05	41.26	14.37	2.09	29.38	39.98	13.40	4.67	0.68
78	48.20	102.55	4.02	8.56	935	1,989	524	252	19	57.78	122.93	32.36	14.36	1.20	19.27	40.99	10.79	4.79	0.40
79	12.70	22.51	3.99	7.07	1,836	3,255	898	461	145	57.43	101.80	28.10	14.41	4.52	28.38	50.30	13.88	7.12	2.23
80	20.72	51.53	2.28	5.68	2,208	5,492	1,461	966	107	89.47	222.56	59.23	39.17	4.32	15.26	37.97	10.10	6.68	0.74
81	40.82	61.16	6.12	9.16	4,695	7,033	1,252	768	115	150.27	225.10	40.07	24.57	3.68	34.15	51.16	9.11	5.58	0.84
82	0.00	0.00	0.00	0.00	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
83	0.00	0.00	0.00	0.00	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
84	0.00	0.00	0.00	0.00	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85	35.17	82.87	3.89	9.16	4,625	10,898	922	1,189	131	139.54	328.80	27.82	35.88	3.97	19.89	46.87	3.97	5.11	0.57
86	43.89	79.83	11.40	20.73	7,520	13,678	1,441	660	171	248.91	452.71	47.68	21.84	5.67	24.19	44.00	4.63	2.12	0.55

TUNNEL 1&T TEST STATISTICS

02-Nov-86

FY	TYPE	ENTR	OSH	UOH	AOH	I/R	MANHOURS										COST (\$)					
							AEDC DOWN	MMH	OP	ATP	CALSPAN	SUPPORT	OT	TOTAL	LABOR	MATERIAL	TRAVEL	PSI	ELEC	COMP	OTHER	TOTAL*
75	ALL TESTS	53	3,232.8	2,723.4	1,423.8	387.3	134.6	175,097	6,311	77,915	145,394	19,745	14,360	179,499	1,549,568	28,843	0	22,102	1,524,264	0	0	3,124,776
76	ALL TESTS	41	3,808.3	2,829.5	1,345.7	622.4	195.7	155,171	7,206	92,326	173,673	23,585	17,153	214,411	2,000,869	63,150	0	32,737	2,433,911	0	0	4,530,667
77	ALL TESTS	11	816.0	652.3	312.8	124.5	38.9	41,405	1,587	21,411	41,059	5,576	4,055	50,690	473,790	12,870	0	7,882	596,870	0	0	1,091,412
77	ALL TESTS	42	4,094.0	2,853.3	1,396.8	760.6	239.0	175,166	6,428	66,293	177,291	24,077	17,510	218,878	2,284,000	45,000	0	34,320	2,388,708	0	0	4,752,028
78	ALL TESTS	42	3,849.0	2,608.5	1,369.8	952.9	274.1	174,598	7,714	62,649	163,380	22,187	16,136	201,704	2,341,914	82,000	0	36,152	2,552,120	0	0	5,012,186
79	ALL TESTS	37	2,601.8	1,480.9	943.1	813.4	170.2	107,469	5,581	57,667	189,540	25,740	18,720	234,000	2,969,000	74,947	0	51,601	4,055,000	0	0	7,150,190
80	ALL TESTS	40	2,299.6	1,600.3	1,051.2	567.2	121.1	117,259	6,801	99,311	130,013	17,656	12,841	160,510	2,264,570	132,638	0	55,231	5,195,000	262,449	0	7,909,889
81	ALL TESTS	36	1,834.2	1,051.4	604.8	565.6	180.2	67,490	4,563	53,434	130,212	14,712	4,516	149,440	2,304,400	52,587	0	50,267	4,552,840	309,338	0	7,269,432
82	ALL TESTS	26	2,412.4	1,289.6	744.6	822.0	231.5	74,296	5,618	73,371	166,383	16,412	8,363	191,158	3,241,668	76,697	1,728	50,026	5,691,827	394,596	307,996	9,764,538
83	ALL TESTS	28	2,916.6	1,684.7	849.7	989.0	157.5	80,419	7,836	92,237	207,382	35,431	23,462	266,150	4,858,157	94,687	16,223	85,670	6,111,253	514,916	793,505	12,474,411
84	ALL TESTS	21	4,092.4	1,957.7	899.8	1,824.0	292.2	94,013	7,422	77,165	195,243	26,082	41,027	262,352	5,117,252	168,638	17,793	94,874	6,854,010	474,750	936,897	13,664,214
85	ALL TESTS	20	6,796.3	3,462.4	1,405.9	2,865.2	393.2	147,353	9,479	117,783	250,083	33,163	70,234	353,480	7,080,268	128,536	25,891	178,365	7,599,804	804,625	1,651,274	17,468,763
86	ALL TESTS	17	3,899.5	1,973.5	909.0	1,690.2	225.2	98,534	6,283	68,006	157,984	15,186	27,428	200,598	4,203,192	67,004	4,361	66,610	5,108,355	232,139	979,268	10,660,929

PRODUCTIVITY

COST

MANHOURS

ELECTRICITY

FY	ATP/UOH	ATP/AOH	OP/UOH	OP/AOH	\$/UOH	\$/AOH	\$/OSH	\$/OP	\$/ATP	MHR/UOH	MHR/AOH	MHR/OSH	MHR/OP	MHR/ATP	MMH/UOH	MMH/AOH	MMH/OSH	MMH/OP	MMH/ATP
75	28.6	54.7	2.3	4.4	1,147	2,195	967	495	40	65.9	126.1	55.5	28.4	2.3	64.3	123.0	54.2	27.7	2.2
76	32.6	68.6	2.5	5.4	1,601	3,367	1,190	629	49	75.8	159.3	56.3	29.8	2.3	54.8	115.3	40.7	21.5	1.7
77	32.8	68.4	2.4	5.1	1,673	3,489	1,338	688	51	77.7	162.1	62.1	31.9	2.4	63.5	132.4	50.7	26.1	1.9
77	23.2	47.5	2.3	4.6	1,665	3,402	1,161	739	72	76.7	156.7	53.5	34.1	3.3	61.4	125.4	42.8	27.3	2.6
78	24.0	45.7	3.0	5.6	1,921	3,659	1,302	650	80	77.3	147.3	52.4	26.1	3.2	66.9	127.5	45.4	22.6	2.8
79	38.9	61.1	3.8	5.9	4,828	7,582	2,748	1,281	124	158.0	248.1	89.9	41.9	4.1	72.6	114.0	41.3	19.3	1.9
80	62.1	94.5	4.2	6.5	4,943	7,525	3,440	1,163	80	100.3	152.7	69.8	23.6	1.6	73.3	111.5	51.0	17.2	1.2
81	50.8	88.3	4.3	7.5	6,914	12,020	3,963	1,593	136	142.1	247.1	81.5	32.8	2.8	64.2	111.6	36.8	14.8	1.3
82	56.9	98.5	4.4	7.5	7,572	13,114	4,048	1,738	133	148.2	256.7	79.2	34.0	2.6	57.6	99.8	30.8	13.2	1.0
83	54.7	108.6	4.7	9.2	7,405	14,681	4,277	1,592	135	158.0	313.2	91.3	34.0	2.9	47.7	94.6	27.6	10.3	0.9
84	39.4	85.8	3.8	8.2	6,980	15,186	3,339	1,841	177	134.0	291.6	64.1	33.3	3.4	48.0	104.5	23.0	12.7	1.2
85	34.0	83.8	2.7	6.7	5,045	12,425	2,570	1,843	148	102.1	251.4	52.0	37.3	3.0	42.6	104.8	21.7	15.5	1.3
86	34.5	74.8	3.2	6.9	5,402	11,728	2,734	1,697	157	101.6	220.7	51.4	31.9	2.9	49.9	108.4	25.3	15.7	1.4

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TUNNEL 16T TEST STATISTICS

01-Dec-86

FY	TYPE	ENTR	DSH	UOH	AOH	1/R	AEDC								MANHOURS								COST (\$)				
							DOWN	MMH	OP	ATP	CALSPAN	SUPPORT	DT	TOTAL	LABOR	MATERIAL	TRAVEL	PSI	ELEC	COMP	OTHER	TOTAL*					
75	BALT	15	1,136.0	997.7	464.1	78.9	50.1	57,823	2,563	40,147	45,606	6,193	4,504	56,304	484,005	6,987	0	7,798	580,903	0	0	1,079,693					
76	BALT	10	1,208.2	1,103.4	508.4	45.5	60.3	60,147	2,783	56,588	37,978	5,158	3,751	46,887	432,904	5,086	0	10,777	1,041,217	0	0	1,489,984					
77	BALT	5	521.0	457.4	218.2	35.0	28.6	27,964	1,340	19,530	29,687	4,032	2,932	36,650	342,660	9,250	0	5,816	447,530	0	0	805,256					
77	BALT	19	1,664.0	1,321.2	601.4	229.4	112.8	70,027	3,145	45,885	65,460	8,890	6,465	80,815	834,013	10,137	0	13,072	952,753	0	0	1,809,975					
78	BALT	10	846.2	583.5	322.5	209.4	53.3	38,262	1,923	31,661	32,724	4,444	3,232	40,400	466,000	3,000	0	7,529	566,000	0	0	1,042,529					
79	BALT	8	554.2	398.3	277.2	127.9	20.1	29,859	1,769	36,303	28,755	3,905	2,840	35,500	439,100	4,000	0	11,349	1,116,900	0	0	1,571,349					
80	BALT	7	526.7	412.7	252.2	74.5	26.4	27,866	2,440	41,370	25,969	3,527	2,565	32,060	467,200	23,493	0	12,937	1,287,600	67,683	0	1,858,912					
81	BALT	7	400.3	261.4	144.7	133.5	42.6	17,075	1,369	21,144	29,540	2,120	730	32,390	512,200	12,882	0	12,314	1,167,640	75,779	0	1,780,816					
82	BALT	6	468.3	310.3	189.3	33.5	90.3	20,255	1,670	28,015	24,188	948	1,131	26,267	448,668	157	0	2,776	1,504,550	77,099	52,324	2,085,574					
83	BALT	3	387.1	279.3	144.5	78.1	27.7	15,527	1,710	26,215	26,644	1,151	2,040	29,835	534,302	1,258	0	4,978	1,145,602	99,495	110,213	1,895,848					
84	BALT	2	385.7	235.1	134.5	93.7	48.2	12,510	1,187	19,862	16,185	2,315	3,103	21,603	408,735	2,674	858	8,946	922,414	37,326	90,822	1,471,775					
85	BALT	3	692.6	411.1	246.3	247.1	25.2	24,479	2,075	43,091	22,520	1,168	6,198	29,887	602,900	1,707	0	18,046	1,280,019	78,003	183,356	2,164,030					
86	BALT	1	79.0	35.4	11.6	43.6	0.0	970	162	1,584	2,845	408	247	3,500	89,606	12,473	0	1,253	28,820	1,842	21,198	155,192					

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FY	PRODUCTIVITY				COST					MANHOURS					ELECTRICITY				
	ATP/UOH	ATP/AOH	OP/UOH	OP/AOH	\$/UOH	\$/AOH	\$/DSH	\$/OP	\$/ATP	MHR/UOH	MHR/AOH	MHR/DSH	MHR/OP	MHR/ATP	MWH/UOH	MWH/AOH	MWH/DSH	MWH/OP	MWH/ATP
75	40.2	86.5	2.6	5.5	1,082	2,326	950	421	27	56.4	121.3	49.6	22.0	1.4	58.0	124.6	50.9	22.6	1.4
76	51.3	111.3	2.5	5.5	1,350	2,931	1,233	535	26	42.5	92.2	38.8	16.8	0.8	54.5	118.3	49.8	21.6	1.1
77	42.7	89.5	2.9	6.1	1,761	3,690	1,546	601	41	80.1	168.0	70.3	27.4	1.9	61.1	128.2	53.7	20.9	1.4
77	34.7	76.3	2.4	5.2	1,370	3,010	1,088	576	39	61.2	134.4	48.6	25.7	1.8	53.0	116.4	42.1	22.3	1.5
78	54.3	98.2	3.3	6.0	1,787	3,233	1,232	542	33	69.2	125.3	47.7	21.0	1.3	65.6	118.6	45.2	19.9	1.2
79	91.1	131.0	4.4	6.4	3,945	5,669	2,835	888	43	89.1	128.1	64.1	20.1	1.0	75.0	107.7	53.9	16.9	0.8
80	100.2	164.0	5.9	9.7	4,504	7,371	3,529	762	45	77.7	127.1	60.9	13.1	0.8	67.5	110.5	52.9	11.4	0.7
81	80.9	146.1	5.2	9.5	6,813	12,307	4,449	1,301	84	123.9	223.8	80.9	23.7	1.5	65.3	118.0	42.7	12.5	0.8
82	90.3	148.0	5.4	8.8	6,721	11,017	4,453	1,249	74	84.7	138.8	56.1	15.7	0.9	65.3	107.0	43.3	12.1	0.7
83	93.9	181.4	6.1	11.8	6,788	13,120	4,898	1,109	72	106.8	206.5	77.1	17.4	1.1	55.6	107.5	40.1	9.1	0.6
84	84.5	147.7	5.0	8.8	6,260	10,943	3,816	1,240	74	91.9	160.6	56.0	18.2	1.1	53.2	93.0	32.4	10.5	0.6
85	104.8	175.0	5.0	8.4	5,264	8,786	3,125	1,043	50	72.7	121.3	43.2	14.4	0.7	59.5	99.4	35.3	11.8	0.6
86	44.7	136.6	4.6	14.0	4,384	13,379	1,964	958	98	98.9	301.7	44.3	21.6	2.2	27.4	83.6	12.3	6.0	0.6

TUNNEL 16T TEST STATISTICS

26-Nov-86

FY	TYPE	ENTR	OSH	UOH	AOH	I/R	MANHOURS							COST (\$)									
							AEDC DOWN	MMH	OP	ATP	CALSPAN	SUPPORT	DT	TOTAL	LABOR	MATERIAL	TRAVEL	PSI	ELEC	COMP	OTHER	TOTAL*	
75	BAPT	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76	BAPT	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	BAPT	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	BAPT	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	BAPT	4	324.7	213.8	87.6	87.3	10.1	12,720	403	3,948	14,499	1,969	1,432	17,900	208,000	1,000	0	2,954	197,000	0	0	0	408,954
79	BAPT	5	386.9	192.8	139.4	84.8	60.4	16,007	640	7,456	19,359	2,629	1,912	23,900	295,000	5,000	0	6,518	596,000	0	0	0	902,518
80	BAPT	16	1,294.3	897.7	610.3	320.3	80.1	69,804	3,499	48,491	66,371	9,013	6,555	81,940	1,144,300	68,726	0	30,719	3,009,600	147,223	0	0	4,400,567
81	BAPT	2	208.0	160.9	94.4	34.4	12.7	10,546	791	11,784	10,640	2,120	820	13,580	197,200	7,063	0	6,751	723,800	41,547	0	0	976,362
82	BAPT	5	524.6	337.6	202.0	150.5	36.5	18,228	1,603	23,383	33,542	2,724	1,349	37,615	625,122	7,647	0	7,713	1,419,685	98,164	87,914	2,246,246	
83	BAPT	6	1,053.8	547.7	307.0	387.8	82.6	35,784	2,886	36,705	62,967	11,606	9,615	84,188	1,567,054	45,839	8,776	20,430	2,716,603	158,767	241,251	4,758,720	
84	BAPT	5	701.8	335.1	179.1	303.4	51.7	22,516	2,140	21,984	41,665	4,507	7,345	53,517	1,058,920	105,920	5,430	25,577	1,614,468	116,855	161,857	3,089,027	
85	BAPT	4	1,832.4	931.2	321.1	718.8	116.1	28,625	2,293	32,962	50,714	4,989	12,874	68,577	1,375,195	3,171	3,088	22,462	1,476,993	160,126	323,010	3,364,045	
86	BAPT	3	1,058.0	640.1	319.8	337.0	79.9	31,220	2,190	34,368	36,734	4,171	6,722	47,627	1,013,507	6,882	854	16,221	1,648,776	88,829	273,786	3,048,854	

PRODUCTIVITY

COST

MANHOURS

ELECTRICITY

FY	ATP/UOH	ATP/AOH	OP/UOH	OP/AOH	\$/UOH	\$/AOH	\$/OSH	\$/OP	\$/ATP	MHR/UOH	MHR/AOH	MHR/OSH	MHR/OP	MHR/ATP	MMH/UOH	MMH/AOH	MMH/OSH	MMH/OP	MMH/ATP
75	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78	18.5	45.1	1.9	4.6	1,913	4,668	1,259	1,015	104	83.7	204.3	55.1	44.4	4.5	59.5	145.2	39.2	31.6	3.2
79	38.7	53.5	3.3	4.6	4,681	6,474	2,333	1,410	121	124.0	171.4	61.8	37.3	3.2	83.0	114.8	41.4	25.0	2.1
80	54.0	79.5	3.9	5.7	4,902	7,210	3,400	1,258	91	91.3	134.3	63.3	23.4	1.7	77.8	114.4	53.9	19.9	1.4
81	73.2	124.8	4.9	8.4	6,068	10,343	4,694	1,234	83	84.4	143.9	65.3	17.2	1.2	65.5	111.7	50.7	13.3	0.9
82	69.3	115.8	4.7	7.9	6,654	11,120	4,282	1,401	96	111.4	186.2	71.7	23.5	1.6	54.0	90.2	34.7	11.4	0.8
83	67.0	119.6	5.3	9.4	8,689	15,501	4,516	1,649	130	153.7	274.2	79.9	29.2	2.3	65.3	116.6	34.0	12.4	1.0
84	61.9	122.7	6.0	11.9	8,699	17,247	4,402	1,443	141	150.7	298.8	76.3	25.0	2.4	63.4	125.7	32.1	10.5	1.0
85	35.4	102.7	2.5	7.1	3,613	10,477	1,836	1,467	102	73.6	213.6	37.4	29.9	2.1	30.7	89.1	15.6	12.5	0.9
86	53.7	107.5	3.4	6.8	4,763	9,534	2,882	1,392	89	74.4	148.9	45.0	21.7	1.4	48.8	97.6	29.5	14.3	0.9

TUNNEL 16T TEST STATISTICS

26-Nov-86

FY	TYPE	ENTR	OSH	UOH	AOH	I/R	MMHOURS							COST (\$)									
							AEDC DOWN	MMH	OP	ATP	CALSPAN	SUPPORT	OT	TOTAL	LABOR	MATERIAL	TRAVEL	PSI	ELEC	COMP	OTHER	TOTAL*	
75	DYST	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76	DYST	1	72.5	50.1	22.9	16.5	1.9	1,149	40	661	3,969	539	392	4,900	52,000	0	0	509	18,000	0	0	0	70,509
77	DYST	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	DYST	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	DYST	1	112.0	23.0	14.9	80.0	9.0	1,284	21	253	8,100	1,100	800	10,000	115,000	5,000	0	1,011	19,000	0	0	0	140,011
79	DYST	2	90.0	49.1	32.3	35.0	5.9	2,543	54	1,098	12,263	1,665	1,211	15,140	184,000	6,300	0	2,058	92,600	0	0	0	284,958
80	DYST	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81	DYST	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82	DYST	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83	DYST	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84	DYST	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	DYST	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86	DYST	1	141.0	19.9	7.2	121.1	0.0	662	0	0	10,009	1,436	860	12,305	261,604	23,478	0	2,358	54,250	3,467	39,903	0	385,060

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FY	PRODUCTIVITY				COST					MMHOURS					ELECTRICITY				
	ATP/UOH	ATP/AOH	OP/UOH	OP/AOH	\$/UOH	\$/AOH	\$/OSH	\$/OP	\$/ATP	MHR/UOH	MHR/AOH	MHR/OSH	MHR/OP	MHR/ATP	MMH/UOH	MMH/AOH	MMH/OSH	MMH/OP	MMH/ATP
75	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76	13.2	28.9	0.8	1.7	1,407	3,079	973	1,763	107	97.8	214.0	67.6	122.5	7.4	22.9	50.2	15.8	28.7	1.7
77	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78	11.0	17.0	0.9	1.4	6,087	9,397	1,250	6,667	553	434.8	671.1	89.3	476.2	39.5	55.8	86.2	11.5	61.1	5.1
79	22.4	34.0	1.1	1.7	5,804	8,822	3,166	5,277	260	308.4	468.7	168.2	280.4	13.8	51.8	78.7	28.3	47.1	2.3
80	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86	0.0	0.0	0.0	0.0	19,350	53,481	2,731	0	0	618.4	1,709.1	87.3	0.0	0.0	33.3	92.0	4.7	0.0	0.0

TUNNEL 16T TEST STATISTICS

26-Nov-86

FY	TYPE	ENTR	OSH	UOH	ACH	I/R	AEDC							MANHOURS					COST (\$)					
							DOWN	MMH	OP	ATP	CALSPAN	SUPPORT	OT	TOTAL	LABOR	MATERIAL	TRAVEL	PSI	ELEC	COMP	OTHER	TOTAL*		
75	FSIT	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76	FSIT	3	624.0	300.8	113.0	249.9	5.0	12,724	430	1,767	35,316	4,796	3,488	43,600	397,553	30,323	0	5,025	262,823	0	0	0	0	695,724
77	FSIT	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	FSIT	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79	FSIT	3	391.4	192.2	116.6	166.7	25.0	12,660	772	3,048	37,341	5,071	3,688	46,100	605,000	27,000	0	8,039	473,000	0	0	0	0	1,113,039
80	FSIT	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81	FSIT	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82	FSIT	1	148.3	92.8	60.4	53.2	2.3	4,205	533	8,939	14,490	2,450	820	17,760	300,600	4,845	0	4,631	331,200	28,501	42,752	0	0	712,530
83	FSIT	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84	FSIT	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	FSIT	2	1,196.2	683.5	195.8	475.4	37.3	17,646	1,149	12,953	42,385	7,456	13,184	63,025	1,265,786	23,512	11,418	37,704	890,415	162,985	259,865	0	0	2,651,685
86	FSIT	1	77.0	11.7	8.2	65.3	0.0	723	44	187	4,999	1,095	827	6,921	141,600	377	0	417	37,477	2,023	23,240	0	0	205,134

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FY	PRODUCTIVITY				COST				MANHOURS					ELECTRICITY					
	ATP/UOH	ATP/ACH	OP/UOH	OP/ACH	\$/UOH	\$/ACH	\$/OSH	\$/OP	\$/ATP	MHR/UOH	MHR/ACH	MHR/OSH	MHR/OP	MHR/ATP	MWH/UOH	MWH/ACH	MWH/OSH	MWH/OP	MWH/ATP
75	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76	5.9	15.6	1.4	3.8	2,313	6,157	1,115	1,618	394	144.9	385.8	69.9	101.4	24.7	42.3	112.6	20.4	29.6	7.2
77	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79	15.9	26.1	4.0	6.6	5,791	9,546	2,844	1,442	365	239.9	395.4	117.8	59.7	15.1	65.9	108.6	32.3	16.4	4.2
80	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82	96.3	148.0	5.7	8.8	7,678	11,797	4,805	1,337	80	191.4	294.0	119.8	33.3	2.0	45.3	69.6	28.4	7.9	0.5
83	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85	19.0	66.2	1.7	5.9	3,880	13,543	2,217	2,308	205	92.2	321.9	52.7	54.9	4.9	25.8	90.1	14.8	15.4	1.4
86	16.0	22.8	3.8	5.4	17,533	25,016	2,664	4,662	1,097	591.5	844.0	89.9	157.3	37.0	61.8	88.1	9.4	16.4	3.9

TUNNEL 16T TEST STATISTICS

26-Nov-86

FY	TYPE	ENTR	OSH	LOH	ACH	I/R	AEDC							MANHOURS				COST (\$)					
							DOWN	MMH	OP	ATP	CALSPAN	SUPPORT	OT	TOTAL	LABOR	MATERIAL	TRAVEL	PSI	ELEC	COMP	OTHER	TOTAL*	
75	MIST	7	213.0	177.6	91.7	102.4	6.6	8,816	370	8,836	10,043	1,364	992	12,399	107,702	2,038	0	1,501	104,951	0	0	216,192	
76	MIST	12	698.8	455.7	205.8	110.6	86.8	21,426	1,916	12,690	47,949	6,512	4,736	59,196	554,628	20,781	0	6,778	356,255	0	0	938,442	
77	MIST	2	128.0	48.2	20.2	75.0	4.8	2,397	66	237	964	131	95	1,190	11,050	50	0	107	3,590	0	0	14,797	
77	MIST	5	262.1	160.0	78.4	96.0	5.4	9,798	367	3,361	21,263	2,888	2,100	26,250	264,391	8,567	0	2,986	137,447	0	0	413,391	
78	MIST	9	317.9	204.0	104.0	95.2	18.7	11,176	589	5,171	14,907	2,024	1,472	18,404	224,914	3,000	0	2,841	169,120	0	0	399,875	
79	MIST	12	408.6	206.2	83.5	157.2	16.6	9,306	372	1,453	49,621	6,739	4,901	61,260	793,900	25,647	0	8,426	344,500	0	0	1,172,115	
80	MIST	15	404.6	233.9	148.5	158.4	10.6	14,584	738	7,396	31,922	4,335	3,153	39,410	549,070	35,420	0	9,139	671,800	38,360	0	1,303,789	
81	MIST	18	330.5	203.4	85.6	114.0	13.5	8,547	527	9,265	31,530	4,660	1,410	37,600	589,600	9,201	0	8,795	610,200	54,124	0	1,271,921	
82	MIST	8	388.9	156.0	73.0	209.2	23.7	7,906	417	3,811	40,222	6,865	2,271	49,358	847,088	56,543	0	20,786	603,462	66,052	41,248	1,635,180	
83	MIST	11	608.1	375.6	164.1	184.1	16.8	5,609	1,526	8,780	42,354	5,045	2,314	49,588	890,161	18,333	2,247	21,199	371,368	68,304	131,519	1,503,131	
84	MIST	4	672.8	278.0	117.2	340.3	36.7	10,776	1,114	12,008	36,878	6,570	7,004	50,452	991,643	41,445	0	20,003	795,771	61,624	139,661	2,050,147	
85	MIST	6	1,547.3	634.4	187.4	826.6	86.3	20,975	1,680	10,171	87,263	12,514	18,533	118,310	2,371,745	94,593	9,333	62,268	1,170,737	106,903	437,733	4,253,312	
86	MIST	4	520.1	78.6	15.0	419.6	21.9	1,264	149	1,343	24,658	3,030	2,303	29,991	638,072	14,683	1,290	6,899	162,746	15,561	95,622	934,873	

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FY	PRODUCTIVITY				COST					MANHOURS					ELECTRICITY				
	ATP/LOH	ATP/ACH	OP/LOH	OP/ACH	\$/LOH	\$/ACH	\$/OSH	\$/OP	\$/ATP	MHR/LOH	MHR/ACH	MHR/OSH	MHR/OP	MHR/ATP	MMH/LOH	MMH/ACH	MMH/OSH	MMH/OP	MMH/ATP
75	49.8	96.4	2.1	4.0	1,217	2,358	1,015	584	24	69.8	135.2	58.2	33.5	1.4	49.6	96.1	41.4	23.8	1.0
76	27.8	61.7	4.2	9.3	2,059	4,560	1,343	490	74	129.9	287.6	84.7	30.9	4.7	47.0	104.1	30.7	11.2	1.7
77	4.9	11.7	1.4	3.3	307	733	116	224	62	24.7	58.9	9.3	18.0	5.0	49.7	118.7	18.7	36.3	10.1
77	21.0	42.9	2.3	4.7	2,584	5,273	1,577	1,126	123	164.1	334.8	100.2	71.5	7.8	61.2	125.0	37.4	26.7	2.9
78	25.3	49.7	2.9	5.7	1,960	3,845	1,258	679	77	90.2	177.0	57.9	31.2	3.6	54.8	107.5	35.2	19.0	2.2
79	7.0	17.4	1.8	4.5	5,684	14,037	2,869	3,151	807	297.1	733.7	149.9	164.7	42.2	45.1	111.4	22.8	25.0	6.4
80	31.6	49.8	3.2	5.0	5,574	8,780	3,222	1,767	176	168.5	265.4	97.4	53.4	5.3	62.4	98.2	36.0	19.8	2.0
81	45.6	108.2	2.6	6.2	6,253	14,859	3,848	2,414	137	184.9	439.3	113.8	71.3	4.1	42.0	99.8	25.9	16.2	0.9
82	24.4	52.2	2.7	5.7	10,482	22,400	4,205	3,921	429	316.4	676.1	126.9	118.4	13.0	50.7	108.3	20.3	19.0	2.1
83	23.4	53.5	4.1	9.3	4,002	9,160	2,472	985	171	132.0	302.2	81.5	32.5	5.6	14.9	34.2	9.2	3.7	0.6
84	43.2	102.5	4.0	9.5	7,375	17,493	3,047	1,840	171	181.5	430.5	75.0	45.3	4.2	38.8	91.9	16.0	9.7	0.9
85	16.0	54.3	2.6	9.0	6,704	22,696	2,749	2,532	418	186.5	631.3	76.5	70.4	11.6	33.1	111.9	13.6	12.5	2.1
86	17.1	89.5	1.9	9.9	11,894	62,325	1,797	6,274	696	381.6	1,999.4	57.7	201.3	22.3	16.1	84.3	2.4	8.5	0.9

TUNNEL 16T TEST STATISTICS

		26-Nov-86						MANHOURS							COST (\$)							
FY	TYPE	ENTR	OSH	UOH	AOH	I/R	AEDC DOWN	MMH	OP	ATP	CALSPAN	SUPPORT	OT	TOTAL	LABOR	MATERIAL	TRAVEL	PSI	ELEC	COMP	OTHER	TOTAL*
75	NABT	9	580.0	515.8	287.4	35.4	18.2	32,006	950	8,082	27,983	3,800	2,764	34,547	301,403	6,476	0	3,944	290,359	0	0	602,182
76	NABT	5	548.0	414.8	185.0	86.0	27.2	23,410	740	5,434	16,798	2,281	1,659	20,738	200,020	4,370	0	3,515	278,810	0	0	486,715
77	NABT	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	NABT	5	926.0	497.3	259.1	142.5	47.8	30,816	926	5,793	33,348	4,529	3,294	41,170	438,255	15,626	0	6,191	397,207	0	0	857,279
78	NABT	10	1,387.5	961.0	499.3	330.8	111.7	60,920	2,935	11,324	59,130	8,030	5,840	73,000	856,000	62,000	0	13,145	889,000	0	0	1,820,145
79	NABT	3	447.6	298.7	199.8	114.8	34.1	26,846	1,416	4,943	23,652	3,212	2,336	29,200	368,000	3,000	0	10,228	1,035,000	0	0	1,416,228
80	NABT	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81	NABT	2	265.5	156.3	63.2	98.6	10.6	5,505	290	2,497	23,400	1,060	470	24,930	386,800	6,207	0	5,933	422,600	36,513	0	858,053
82	NABT	2	313.4	139.6	50.5	145.5	28.3	4,699	301	2,165	18,418	841	725	19,984	341,487	228	1,186	2,330	364,480	36,256	15,292	761,259
83	NABT	2	248.4	130.6	35.5	117.3	4.5	3,248	250	2,303	26,566	4,576	1,147	32,289	597,232	5,282	0	6,771	242,811	47,099	75,389	974,584
84	NABT	4	995.5	450.6	163.2	485.7	58.5	15,100	1,034	6,227	42,259	6,170	10,717	59,146	1,163,159	14,594	6,049	14,454	1,113,052	115,291	205,470	2,632,069
85	NABT	1	432.9	265.4	128.5	141.3	26.2	12,392	415	3,908	12,535	3,453	6,714	22,702	450,984	2,267	2,052	11,095	637,013	32,858	117,673	1,253,942
86	NABT	2	873.3	519.4	214.6	280.0	67.7	22,085	1,722	16,020	30,060	822	6,660	37,542	794,724	1,918	1,703	7,112	1,128,658	42,194	199,487	2,175,796

PRODUCTIVITY

COST

MANHOURS

ELECTRICITY

FY	ATP/UOH	ATP/AOH	OP/UOH	OP/AOH	\$/UOH	\$/AOH	\$/OSH	\$/OP	\$/ATP	MMH/UOH	MMH/AOH	MMH/OSH	MMH/OP	MMH/ATP	MMH/UOH	MMH/AOH	MMH/OSH	MMH/OP	MMH/ATP
75	15.7	28.1	1.8	3.3	1,167	2,095	1,038	634	75	67.0	120.2	59.6	36.4	4.3	62.1	111.4	55.2	33.7	4.0
76	13.1	29.4	1.8	4.0	1,173	2,631	888	658	90	50.0	112.1	37.8	28.0	3.8	56.4	126.5	42.7	31.6	4.3
77	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77	11.6	22.4	1.9	3.6	1,724	3,309	926	926	148	82.8	158.9	44.5	44.5	7.1	62.0	118.9	33.3	33.3	5.3
78	11.8	22.7	3.1	5.9	1,894	3,645	1,312	620	161	76.0	146.2	52.6	24.9	6.4	63.4	122.0	43.9	20.8	5.4
79	16.5	24.7	4.7	7.1	4,741	7,088	3,164	1,000	287	97.8	146.1	65.2	20.6	5.9	89.9	134.4	60.0	19.0	5.4
80	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81	16.0	39.5	1.9	4.6	5,490	13,577	3,232	2,959	344	159.5	394.5	93.9	86.0	10.0	35.2	87.1	20.7	19.0	2.2
82	15.5	42.9	2.2	6.0	5,453	15,074	2,429	2,529	352	143.2	395.7	63.8	66.4	9.2	33.7	93.0	15.0	15.6	2.2
83	17.6	64.9	1.9	7.0	7,462	27,453	3,923	3,898	423	247.2	909.5	130.0	129.2	14.0	24.9	91.5	13.1	13.0	1.4
84	13.8	38.2	2.3	6.3	5,841	16,128	2,644	2,546	423	131.3	362.4	59.4	57.2	9.5	33.5	92.5	15.2	14.6	2.4
85	14.7	30.4	1.6	3.2	4,725	9,758	2,897	3,022	321	85.5	176.7	52.4	54.7	5.8	46.7	96.4	28.6	29.9	3.2
86	30.8	74.7	3.3	8.0	4,189	10,139	2,491	1,264	136	72.3	174.9	43.0	21.8	2.3	42.5	102.9	25.3	12.8	1.4

TUNNEL 16T TEST STATISTICS

		26-Nov-86					MANHOURS								COST (\$)							
FY	TYPE	ENTR	OSH	LOH	AOH	I/R	AEDC DOWN	MMH	OP	ATP	CALSPAN	SUPPORT	OT	TOTAL	LABOR	MATERIAL	TRAVEL	PSI	ELEC	COMP	OTHER	TOTAL*
75	PRST	15	583.8	478.3	274.0	58.9	33.8	38,326	1,227	11,440	27,914	3,791	2,757	34,462	297,037	4,600	0	4,181	273,068	0	0	578,885
76	PRST	8	437.4	362.2	222.9	61.6	5.9	25,015	775	10,400	19,161	2,602	1,892	23,656	220,374	0	0	4,268	366,346	0	0	590,988
77	PRST	3	160.0	146.7	74.4	7.5	5.5	11,044	181	1,644	10,247	1,392	1,012	12,650	118,080	3,570	0	1,945	145,750	0	0	269,345
77	PRST	8	752.9	565.6	280.4	140.0	45.9	41,799	1,123	6,090	31,301	4,251	3,091	38,643	413,341	4,670	0	7,401	599,301	0	0	1,024,713
78	PRST	6	588.7	446.9	261.0	76.8	65.0	39,454	1,523	8,623	22,356	3,036	2,208	27,600	312,000	4,000	0	6,322	553,000	0	0	875,322
79	PRST	2	205.5	94.9	60.1	69.0	5.1	7,015	365	2,432	10,773	1,463	1,064	13,300	163,000	0	0	3,194	276,000	0	0	442,194
80	PRST	2	74.0	56.0	40.2	14.0	4.0	5,005	124	2,054	5,751	781	568	7,100	104,000	5,000	0	2,437	226,000	9,184	0	346,621
81	PRST	4	300.1	92.7	89.1	108.1	49.7	11,382	628	4,593	17,060	1,670	410	19,140	291,000	7,677	0	7,338	710,000	45,156	0	1,061,171
82	PRST	1	120.2	42.1	28.1	35.0	8.0	2,978	127	1,416	5,323	17	183	5,523	89,568	0	0	150	244,812	24,349	5,270	364,149
83	PRST	1	165.5	97.4	54.8	55.0	13.0	6,969	648	9,942	13,412	4,520	2,331	20,263	374,469	11,550	2,276	12,432	508,176	28,187	73,243	1,010,333
84	PRST	1	108.0	38.7	18.8	56.5	12.8	2,776	30	272	5,206	74	750	6,030	113,781	0	0	679	197,395	7,959	24,172	343,986
85	PRST	1	167.6	106.1	49.2	48.0	13.5	6,836	182	4,037	3,610	382	1,663	5,654	116,133	750	0	3,641	295,955	12,058	37,816	466,353
86	PRST	2	200.4	112.4	45.9	77.7	10.3	4,384	357	2,673	8,509	401	686	9,596	179,429	2,119	0	1,246	179,834	8,073	42,861	413,563

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FY	PRODUCTIVITY				COST				MANHOURS					ELECTRICITY					
	ATP/LOH	ATP/AOH	OP/LOH	OP/AOH	\$/LOH	\$/AOH	\$/OSH	\$/OP	\$/ATP	MHR/LOH	MHR/AOH	MHR/OSH	MHR/OP	MHR/ATP	MHR/LOH	MHR/AOH	MHR/OSH	MHR/OP	MHR/ATP
75	23.9	41.8	2.6	4.5	1,210	2,113	992	472	51	72.1	125.8	59.0	28.1	3.0	80.1	139.9	65.6	31.2	3.4
76	28.7	46.7	2.1	3.5	1,632	2,651	1,351	763	57	65.3	106.1	54.1	30.5	2.3	69.1	112.2	57.2	32.3	2.4
77	11.2	22.1	1.2	2.4	1,836	3,620	1,683	1,488	164	86.2	170.0	79.1	69.9	7.7	75.3	148.4	69.0	61.0	6.7
77	10.8	21.7	2.0	4.0	1,812	3,654	1,361	912	168	68.3	137.8	51.3	34.4	6.3	73.9	149.1	55.5	37.2	6.9
78	19.3	33.0	3.4	5.8	1,959	3,354	1,487	575	102	61.8	105.7	46.9	18.1	3.2	88.3	151.2	67.0	25.9	4.6
79	25.6	40.5	3.8	6.1	4,660	7,358	2,152	1,211	182	140.1	221.3	64.7	36.4	5.5	73.9	116.7	34.1	19.2	2.9
80	36.7	51.1	2.2	3.1	6,190	8,622	4,684	2,795	169	126.8	176.6	95.9	57.3	3.5	89.4	124.5	67.6	40.4	2.4
81	49.5	51.5	6.8	7.0	11,447	11,910	3,536	1,690	231	206.5	214.8	63.8	30.5	4.2	122.8	127.7	37.9	18.1	2.5
82	33.6	50.4	3.0	4.5	8,650	12,959	3,030	2,867	257	131.2	196.5	45.9	43.5	3.9	70.7	106.0	24.8	23.4	2.1
83	102.1	181.4	6.7	11.8	10,373	18,437	6,105	1,559	102	208.0	369.8	122.4	31.3	2.0	71.6	127.2	42.1	10.8	0.7
84	7.0	14.5	0.8	1.6	8,889	18,297	3,185	11,466	1,265	155.8	320.7	55.8	201.0	22.2	71.7	147.7	25.7	92.5	10.2
85	38.0	82.1	1.7	3.7	4,395	9,479	2,783	2,562	116	53.3	114.9	33.7	31.1	1.4	64.4	139.0	40.8	37.6	1.7
86	23.8	58.2	3.2	7.8	3,679	9,010	2,064	1,158	155	85.4	209.1	47.9	26.9	3.6	39.0	95.5	21.9	12.3	1.6

TUNNEL 16T TEST STATISTICS

		26-Nov-86					MANHOURS										COST (\$)					
FY	TYPE	ENTR	OSH	UOH	AOH	I/R	AEDC DOWN	MMH	OP	ATP	CALSPAN	SUPPORT	OT	TOTAL	LABOR	MATERIAL	TRAVEL	PSI	ELEC	COMP	OTHER	TOTAL*
75	SIPT	3	192.0	183.9	120.3	2.8	5.2	16,869	424	2,012	8,413	1,143	831	10,387	87,421	1,742	0	1,194	74,983	0	0	165,340
76	SIPT	1	107.4	66.7	42.1	25.0	7.7	5,623	305	778	6,022	818	595	7,434	71,390	590	0	927	55,460	0	0	128,367
77	SIPT	1	7.0	0.0	0.0	7.0	0.0	0	0	0	162	22	16	200	2,000	0	0	15	0	0	0	2,015
77	SIPT	2	265.0	167.0	97.6	89.0	9.0	14,517	514	2,264	11,664	1,584	1,152	14,400	149,000	2,000	0	2,524	196,000	0	0	349,524
78	SIPT	2	272.0	176.3	80.5	73.4	6.3	10,782	320	1,669	11,664	1,584	1,152	14,400	160,000	4,000	0	2,350	159,000	0	0	325,350
79	SIPT	2	117.6	48.7	34.2	58.0	3.0	3,233	193	934	7,776	1,056	768	9,600	121,000	4,000	0	1,790	121,000	0	0	247,790
80	SIPT	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81	SIPT	3	329.8	176.7	127.8	77.0	51.1	14,435	958	4,151	18,042	3,082	676	21,800	327,600	9,557	0	9,135	918,600	56,217	0	1,321,110
82	SIPT	3	448.7	211.2	141.3	195.1	42.4	16,025	967	5,642	30,200	2,567	1,884	34,651	589,135	7,277	542	11,639	1,223,638	64,174	63,196	1,959,601
83	SIPT	5	453.7	254.1	143.8	166.7	12.9	13,282	816	8,292	35,439	8,533	6,015	49,987	894,939	12,424	2,924	19,860	1,126,693	113,064	161,890	2,331,794
84	SIPT	5	1,228.6	600.2	287.0	544.4	84.3	30,335	1,917	16,812	53,050	6,446	12,108	71,604	1,381,014	4,005	5,456	23,215	2,210,910	135,695	314,915	4,077,210
85	SIPT	3	927.3	430.7	277.6	408.0	88.6	36,400	1,685	10,661	31,056	3,200	11,069	45,325	897,525	2,536	0	23,150	1,848,672	251,692	291,821	3,315,396
86	SIPT	3	950.7	536.0	286.7	345.9	45.4	37,226	1,659	12,421	37,385	3,423	8,886	49,694	1,035,279	5,074	514	31,104	1,867,794	70,150	283,171	3,293,086

FY	PRODUCTIVITY				COST				MANHOURS					ELECTRICITY					
	ATP/UOH	ATP/AOH	OP/UOH	OP/AOH	\$/UOH	\$/AOH	\$/OSH	\$/OP	\$/ATP	MMH/UOH	MMH/AOH	MMH/OSH	MMH/OP	MMH/ATP	MMH/UOH	MMH/AOH	MMH/OSH	MMH/OP	MMH/ATP
75	10.9	16.7	2.3	3.5	899	1,374	861	390	82	56.5	86.3	54.1	24.5	5.2	91.7	140.2	87.9	39.8	8.4
76	11.7	18.5	4.6	7.2	1,925	3,049	1,195	421	165	111.5	176.6	69.2	24.4	9.6	84.3	133.6	52.4	18.4	7.2
77	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77	13.6	23.2	3.1	5.3	2,093	3,581	1,319	680	154	86.2	147.5	54.3	28.0	6.4	86.9	148.7	54.8	28.2	6.4
78	9.5	20.7	1.8	4.0	1,845	4,042	1,196	1,017	195	81.7	178.9	52.9	45.0	8.6	61.2	133.9	39.6	33.7	6.5
79	19.2	27.3	4.0	5.6	5,088	7,245	2,107	1,284	265	197.1	280.7	81.6	49.7	10.3	66.4	94.5	27.5	16.8	3.5
80	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81	23.5	32.5	5.4	7.5	7,477	10,337	4,006	1,379	318	123.4	170.6	66.1	22.8	5.3	81.7	112.9	43.8	15.1	3.5
82	26.7	39.9	4.6	6.8	9,278	13,868	4,367	2,026	347	164.1	245.2	77.2	35.8	6.1	75.9	113.4	33.7	16.6	2.8
83	32.6	57.7	3.2	5.7	9,177	16,216	5,140	2,858	281	196.7	347.6	110.2	61.3	6.0	52.3	92.4	29.3	16.3	1.6
84	28.0	58.6	3.2	6.7	6,793	14,206	3,319	2,127	243	119.3	249.5	58.3	37.4	4.3	50.5	105.7	24.7	15.8	1.8
85	24.8	38.4	3.9	6.1	7,698	11,943	3,575	1,968	311	105.2	163.3	48.9	26.9	4.3	84.5	131.1	39.3	21.6	3.4
86	22.3	43.3	3.0	5.8	5,923	11,486	3,464	1,985	265	89.4	173.3	52.3	30.0	4.0	67.0	129.8	39.2	22.4	3.0

TUNNEL 16S TEST STATISTICS

02-Nov-86

FY	TYPE	ENTR	OSH	UOH	AOH	I/R	MANHOURS							COST (\$)								
							AEDC DOWN	MMH	OP	ATP	CALSPAN	SUPPORT	OT	TOTAL	LABOR	MATERIAL	TRAVEL	PSI	ELEC	COMP	OTHER	TOTAL*
75	ALL TESTS	7	656.0	563.5	372.4	15.6	71.9	55,944	842	7,547	21,950	2,981	2,168	27,099	229,065	19,360	0	3,448	230,088	0	0	481,961
76	ALL TESTS	4	227.7	191.1	90.5	4.2	32.4	15,245	282	2,592	9,533	1,295	942	11,769	110,150	1,220	0	2,069	172,900	0	0	286,339
77	ALL TESTS	2	208.0	120.1	81.6	24.2	63.4	14,131	215	925	9,770	1,327	965	12,062	113,480	2,607	0	2,286	201,590	0	0	319,963
77	ALL TESTS	2	96.0	76.3	43.6	3.0	16.7	6,606	116	1,750	2,835	385	280	3,500	3,400	722	0	690	92,000	0	0	96,813
78	ALL TESTS	3	65.5	59.0	24.8	0.0	6.5	1,972	19	19	3,156	429	312	3,896	46,096	598	0	572	32,880	0	0	80,145
79	ALL TESTS	2	37.3	34.5	23.1	0.0	2.8	2,107	75	75	3,321	451	328	4,100	56,000	2,000	0	948	80,000	0	0	138,948
80	ALL TESTS	8	537.9	323.9	244.1	118.0	94.5	46,534	1,045	15,820	31,833	4,323	3,144	39,300	606,000	51,000	0	19,154	2,051,000	95,698	0	2,822,853
81	ALL TESTS	2	252.1	151.5	84.2	73.3	27.3	15,695	433	3,360	13,770	1,870	1,360	17,000	262,000	19,000	0	7,632	793,000	27,000	0	1,108,632
82	ALL TESTS	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83	ALL TESTS	1	41.6	38.3	20.5	0.0	3.3	1,737	33	33	3,000	300	200	3,500	50,000	4,000	0	800	70,000	2,200	8,000	135,000
84	ALL TESTS	4	541.5	272.6	81.6	183.4	61.5	12,296	357	4,776	48,809	3,055	3,541	55,405	1,145,296	7,786	0	14,891	1,003,997	76,533	176,249	2,424,752
85	ALL TESTS	3	414.0	221.4	0.0	186.0	6.6	1,801	304	1,901	12,549	1,317	3,500	17,366	351,715	59	3,557	3,833	82,685	23,166	65,764	530,779
86	ALL TESTS	2	293.5	75.7	37.6	207.4	10.4	7,201	267	1,924	12,982	214	2,154	15,350	321,322	0	0	4,457	351,680	8,585	68,594	754,638

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FY	PRODUCTIVITY				COST				MANHOURS					ELECTRICITY					
	ATP/UOH	ATP/AOH	OP/UOH	OP/AOH	\$/UOH	\$/AOH	\$/OSH	\$/OP	\$/ATP	MHR/UOH	MHR/AOH	MHR/OSH	MHR/OP	MHR/ATP	MMH/UOH	MMH/AOH	MMH/OSH	MMH/OP	MMH/ATP
75	13.4	20.3	1.5	2.3	855	1,294	735	572	64	48.1	72.8	41.3	32.2	3.6	99.3	150.2	85.3	66.4	7.4
76	13.6	28.6	1.5	3.1	1,498	3,164	1,258	1,015	110	61.6	130.0	51.7	41.7	4.5	79.8	168.5	67.0	54.1	5.9
77	7.7	11.3	1.8	2.6	2,664	3,921	1,538	1,488	346	100.4	147.8	58.0	56.1	13.0	117.7	173.2	67.9	65.7	15.3
77	22.9	40.1	1.5	2.7	1,269	2,220	1,008	835	55	45.9	80.3	36.5	30.2	2.0	86.6	151.5	68.8	56.9	3.8
78	0.3	0.8	0.3	0.8	1,358	3,232	1,224	4,218	4,218	66.0	157.1	59.5	205.1	205.1	33.4	79.5	30.1	103.8	103.8
79	2.2	3.2	2.2	3.2	4,027	6,015	3,725	1,853	1,853	118.8	177.5	109.9	54.7	54.7	61.1	91.2	56.5	28.1	28.1
80	48.8	64.8	3.2	4.3	8,715	11,564	5,248	2,701	178	121.3	161.0	73.1	37.6	2.5	143.7	190.6	86.5	44.5	2.9
81	22.2	39.9	2.9	5.1	7,318	13,167	4,398	2,560	330	112.2	201.9	67.4	39.3	5.1	103.6	186.4	62.3	36.2	4.7
82	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83	0.9	1.6	0.9	1.6	3,525	6,585	3,245	4,091	4,091	91.4	170.7	84.1	106.1	106.1	45.4	84.7	41.8	52.6	52.6
84	17.5	58.5	1.3	4.4	8,895	29,715	4,478	6,792	508	203.2	679.0	102.3	155.2	11.6	45.1	150.7	22.7	34.4	2.6
85	8.6	0.0	1.4	0.0	2,397	0	1,282	1,746	279	78.4	0.0	41.9	57.1	9.1	8.1	0.0	4.3	5.9	0.9
86	25.4	51.2	3.5	7.1	9,969	20,070	2,571	2,826	392	202.8	408.2	52.3	57.5	8.0	95.1	191.5	24.5	27.0	3.7

TUNNEL 168 TEST STATISTICS

26-Nov-86

FY	TYPE	ENTR	OSH	LOH	AOH	I/R	HOURS							COST (\$)									
							AEDC	MMH	OP	ATP	CALSPAN	SUPPORT	OT	TOTAL	LABOR	MATERIAL	TRAVEL	PSI	ELEC	COMP	OTHER	TOTAL*	
75	BAPS	0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76	BAPS	0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	BAPS	0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	BAPS	0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	BAPS	0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79	BAPS	0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80	BAPS	2	194.3	101.7	78.4	55.2	37.4	15,065	296	5,800	9,315	1,265	920	11,500	164,000	15,000	0	5,985	662,000	23,763	0	870,749	
81	BAPS	0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82	BAPS	0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83	BAPS	0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84	BAPS	0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	BAPS	0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86	BAPS	1	196.7	52.4	27.3	135.1	9.2	5,109	205	1,469	7,151	210	1,126	8,487	176,963	0	0	580	249,392	5,774	42,161	474,870	

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FY	PRODUCTIVITY				COST				HOURS					ELECTRICITY					
	ATP/LOH	ATP/AOH	OP/LOH	OP/AOH	\$/LOH	\$/AOH	\$/OSH	\$/OP	\$/ATP	MHR/LOH	MHR/AOH	MHR/OSH	MHR/OP	MHR/ATP	MMH/LOH	MMH/AOH	MMH/OSH	MMH/OP	MMH/ATP
75	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80	57.0	74.0	2.9	3.8	8,562	11,106	4,481	2,942	150	113.1	146.7	59.2	38.9	2.0	148.1	192.2	77.5	50.9	2.6
81	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86	28.0	53.8	3.9	7.5	9,062	17,395	2,414	2,316	323	162.0	310.9	43.1	41.4	5.8	97.5	187.1	26.0	24.9	3.5

TUNNEL 16S TEST STATISTICS

		26-Nov-86					MANHOURS								COST (\$)							
FY	TYPE	ENTR	OSH	UOH	AOH	I/R	AEDC DOWN	MMH	OP	ATP	CALSPAN	SUPPORT	OT	TOTAL	LABOR	MATERIAL	TRAVEL	PSI	ELEC	COMP	OTHER	TOTAL*
75	MISS	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76	MISS	1	48.0	39.1	5.2	2.0	6.9	858	27	102	1,704	231	168	2,104	19,200	480	0	201	8,000	0	0	27,881
77	MISS	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	MISS	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	MISS	3	65.5	59.0	24.8	0.0	6.5	1,972	19	19	3,156	429	312	3,896	46,096	598	0	572	32,880	0	0	80,145
79	MISS	2	37.3	34.5	23.1	0.0	2.8	2,107	75	75	3,321	451	328	4,100	56,000	2,000	0	948	80,000	0	0	138,948
80	MISS	2	17.7	10.3	10.8	0.0	7.4	1,798	90	1,370	324	44	32	400	48,000	3,000	0	964	83,000	5,931	0	140,895
81	MISS	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82	MISS	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83	MISS	1	41.6	38.3	20.5	0.0	3.3	1,737	33	33	3,000	300	200	3,500	50,000	4,000	0	800	70,000	2,200	8,000	135,000
84	MISS	2	209.7	110.4	75.0	30.2	45.1	10,042	223	2,982	30,328	718	1,982	33,028	627,884	914	0	5,972	849,443	43,517	111,432	1,639,162
85	MISS	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86	MISS	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

PRODUCTIVITY				COST				MANHOURS					ELECTRICITY						
FY	ATP/UOH	ATP/AOH	OP/UOH	OP/AOH	\$/UOH	\$/AOH	\$/OSH	\$/OP	\$/ATP	MHR/UOH	MHR/AOH	MHR/OSH	MHR/OP	MHR/ATP	MMH/UOH	MMH/AOH	MMH/OSH	MMH/OP	MMH/ATP
75	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76	2.6	19.6	0.7	5.2	713	5,362	581	1,033	273	53.8	404.6	43.8	77.9	20.6	21.9	165.0	17.9	31.8	8.4
77	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78	0.3	0.8	0.3	0.8	1,358	3,232	1,224	4,218	4,218	66.0	157.1	59.5	205.1	205.1	33.4	79.5	30.1	103.8	103.8
79	2.2	3.2	2.2	3.2	4,027	6,015	3,725	1,853	1,853	118.8	177.5	109.9	54.7	54.7	61.1	91.2	56.5	28.1	28.1
80	133.0	126.9	8.7	8.3	13,679	13,046	7,960	1,565	103	38.8	37.0	22.6	4.4	0.3	174.6	166.5	101.6	20.0	1.3
81	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83	0.9	1.6	0.9	1.6	3,525	6,585	3,245	4,091	4,091	91.4	170.7	84.1	106.1	106.1	45.4	84.7	41.8	52.6	52.6
84	27.0	39.8	2.0	3.0	14,847	21,855	7,817	7,351	550	299.2	440.4	157.5	148.1	11.1	91.0	133.9	47.9	45.0	3.4
85	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TUNNEL 16S TEST STATISTICS

		26-Nov-86										MANHOURS				COST (\$)						
FY	TYPE	ENTR	OSH	LOH	ADH	I/R	AEDC DOWN	MMH	OP	ATP	CALSPAN	SUPPORT	GT	TOTAL	LABOR	MATERIAL	TRAVEL	PSI	ELEC	COMP	OTHER	TOTAL#
75	SIPS	3	432.0	376.6	265.0	0.0	54.4	41,418	625	3,831	13,184	1,790	1,302	16,277	137,134	17,600	0	1,904	110,026	0	0	266,664
76	SIPS	1	48.0	46.8	28.7	0.0	1.2	4,898	128	529	4,137	562	409	5,108	49,610	410	0	644	38,540	0	0	89,204
77	SIPS	1	144.0	62.7	61.8	24.2	57.1	10,757	166	680	7,695	1,045	760	9,500	88,700	1,977	0	1,889	172,400	0	0	264,966
77	SIPS	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	SIPS	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79	SIPS	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80	SIPS	1	105.0	76.8	64.5	5.3	22.9	12,450	183	1,340	8,991	1,221	888	11,100	166,000	14,000	0	5,220	547,000	26,000	0	758,220
81	SIPS	1	144.1	96.4	53.8	30.6	17.1	10,325	323	2,370	7,371	1,001	728	9,100	139,000	11,000	0	4,776	521,000	18,000	0	693,776
82	SIPS	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83	SIPS	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84	SIPS	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	SIPS	0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86	SIPS	1	96.8	23.3	10.3	72.3	1.2	2,092	62	455	5,831	4	1,028	6,863	144,359	0	0	3,877	102,288	2,811	26,433	279,768

FY	PRODUCTIVITY				COST				MANHOURS					ELECTRICITY					
	ATP/LOH	ATP/ADH	OP/LOH	OP/ADH	\$/LOH	\$/ADH	\$/OSH	\$/OP	\$/ATP	MMH/LOH	MMH/ADH	MMH/OSH	MMH/OP	MMH/ATP	MMH/LOH	MMH/ADH	MMH/OSH	MMH/OP	MMH/ATP
75	10.2	14.5	1.7	2.4	708	1,006	617	427	70	43.2	61.4	37.7	26.0	4.2	110.0	156.3	95.9	66.3	10.8
76	11.3	18.4	2.7	4.5	1,906	3,108	1,858	697	169	109.1	178.0	106.4	39.9	9.7	104.6	170.6	102.0	38.3	9.3
77	10.8	11.0	2.6	2.7	4,226	4,287	1,840	1,596	390	151.5	153.7	66.0	57.2	14.0	171.6	174.1	74.7	64.8	15.8
77	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80	17.4	20.8	2.4	2.8	9,873	11,755	7,221	4,143	566	144.5	172.1	105.7	60.7	8.3	162.1	193.0	118.6	68.0	9.3
81	26.6	44.1	3.4	6.0	7,197	12,895	4,815	2,148	293	94.4	169.1	63.2	28.2	3.8	107.1	191.9	71.7	32.0	4.4
82	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86	19.5	44.2	2.7	6.0	12,007	27,162	2,890	4,512	615	294.5	666.3	70.9	110.7	15.1	89.8	203.1	21.6	33.7	4.6

APPENDIX D

Economic Analysis Examples

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D.2	Separation Test.....	154

A. FORCE TEST

1. DESCRIPTION OF A BASELINE FORCE TEST IN TUNNEL 4T

a. OBJECTIVE:

- o OBTAIN AIRCRAFT STATIC STABILITY AND LOADS DATA FOR 10 AIRCRAFT/ STORE CONFIGURATIONS

b. MEASUREMENTS:

- o ONE SIX-COMPONENT MAIN BALANCE
- o TWO SIX-COMPONENT PYLON BALANCES
- o TWO BASE AND TWO CAVITY PRESSURES

c. TEST MATRIX:

- o MACH NO. .2, .4, .6, .8, .95, 1.05, 1.2, 1.3, 1.6, 2.0
- o ANGLE OF ATTACK: -4 TO 24 DEG (2 DEG INC)
BETA = 0 DEG.
- o ANGLE OF SIDESLIP: -10 TO 10 DEG (2 DEG INC)
ALPHA = -4, 0, 4, 8, 12, 16 DEG
- o REYNOLDS NUMBER: 2.5 MILLION/FT

d. CONSTRAINTS:

- o PITCH POLARS RUN IN POSITIVE DIRECTION ONLY
- o BETA POLARS RUN IN POSITIVE DIRECTION ONLY
- o DATA OBTAINED USING PITCH/ROLL PAUSE TECHNIQUE
- o FORCE/MOMENT SETUP DATA REQUIRED EACH MODEL CHANGE
- o EACH CONFIGURATION WILL REQUIRE 30 MIN. ACTUAL MODEL WORK
- o OBTAIN 10 UOH PER DAY
- o USE STANDARD PRESSURE SYSTEM
- o FOR INSTALLATION, USE 12 MHR/HR
- o FOR ALL OTHER ACTIVITIES, USE 16 MHR/HR

A. FORCE TESTS (CONTINUED)

2. TIME & ENERGY CURRENTLY USED ON A FORCE TEST IN TUNNEL 4T

a. TRANSONIC TESTING

ACTIVITY	M	PT	MM	VARY	ATP	OP	PER CONFIG		OCCUR.	TOTAL				
							SEC/ATP	TIME(MIN)		MMH	DSH	MMH	ADH	UDH
INSTALLATION							1200		1	20.00	0.00			240.0
PREOPS							30		4	2.00	0.00		2.00	32.0
ON-LINE			28	M,PT			3	1.40	10	0.50	14.00	0.50	0.50	8.0
DRYING	0.2	3200	45	SCH			2	1.50	10	0.33	15.00	0.33	0.33	5.3
FLOW ANGLE	0.2	3200	45	ALPHA	15	1	6	1.5	1	0.03	1.13	0.03	0.03	0.4
TESTING	0.2	3200	45	ALPHA	15	1	6	1.5	10	0.25	11.25	0.25	0.25	4.0
TESTING	0.2	3200	45	BETA	11	6	13	14.3	10	2.38	107.25	2.38	2.38	38.1
CHANGE			39	M,PT			3	1.95	10	0.50	19.50	0.50	0.50	8.0
FLOW ANGLE	0.4	2200	35	ALPHA	15	1	6	1.5	1	0.03	0.88	0.03	0.03	0.4
TESTING	0.4	2200	35	ALPHA	15	1	6	1.5	10	0.25	8.75	0.25	0.25	4.0
TESTING	0.4	2200	35	BETA	11	6	13	14.3	10	2.38	83.42	2.38	2.38	38.1
CHANGE			35	M,PT			3	1.75	10	0.50	17.50	0.50	0.50	8.0
FLOW ANGLE	0.6	1600	35	ALPHA	15	1	6	1.5	1	0.03	0.88	0.03	0.03	0.4
TESTING	0.6	1600	35	ALPHA	15	1	6	1.5	10	0.25	8.75	0.25	0.25	4.0
TESTING	0.6	1600	35	BETA	11	6	13	14.3	10	2.38	83.42	2.38	2.38	38.1
CHANGE			35	M,PT			3	1.75	10	0.50	17.50	0.50	0.50	8.0
FLOW ANGLE	0.8	1400	35	ALPHA	15	1	6	1.5	1	0.03	0.88	0.03	0.03	0.4
TESTING	0.8	1400	35	ALPHA	15	1	6	1.5	10	0.25	8.75	0.25	0.25	4.0
TESTING	0.8	1400	35	BETA	11	6	13	14.3	10	2.38	83.42	2.38	2.38	38.1
CHANGE			35	M,PT			3	1.75	10	0.50	17.50	0.50	0.50	8.0
FLOW ANGLE	0.95	1300	35	ALPHA	15	1	6	1.5	1	0.03	0.88	0.03	0.03	0.4
TESTING	0.95	1300	35	ALPHA	15	1	6	1.5	10	0.25	8.75	0.25	0.25	4.0
TESTING	0.95	1300	35	BETA	11	6	13	14.3	10	2.38	83.42	2.38	2.38	38.1
CHANGE			35	M,PT			3	1.75	10	0.50	17.50	0.50	0.50	8.0
FLOW ANGLE	1.05	1200	35	ALPHA	15	1	6	1.5	1	0.03	0.88	0.03	0.03	0.4
TESTING	1.05	1200	35	ALPHA	15	1	6	1.5	10	0.25	8.75	0.25	0.25	4.0
TESTING	1.05	1200	35	BETA	11	6	13	14.3	10	2.38	83.42	2.38	2.38	38.1
CHANGE			35	M,PT			3	1.75	10	0.50	17.50	0.50	0.50	8.0
FLOW ANGLE	1.2	1200	35	ALPHA	15	1	6	1.5	1	0.03	0.88	0.03	0.03	0.4
TESTING	1.2	1200	35	ALPHA	15	1	6	1.5	10	0.25	8.75	0.25	0.25	4.0
TESTING	1.2	1200	35	BETA	11	6	13	14.3	10	2.38	83.42	2.38	2.38	38.1
CHANGE			35	M,PT			3	1.75	10	0.50	17.50	0.50	0.50	8.0
FLOW ANGLE	1.3	1200	35	ALPHA	15	1	6	1.5	1	0.03	0.88	0.03	0.03	0.4
TESTING	1.3	1200	35	ALPHA	15	1	6	1.5	10	0.25	8.75	0.25	0.25	4.0
TESTING	1.3	1200	35	BETA	11	6	13	14.3	10	2.38	83.42	2.38	2.38	38.1
OPEN DOOR			15				16	4.00	8	2.13	32.00		2.13	34.1
MODEL CHANGE			15				30	7.50	8	4.00	60.00		4.00	64.0
CLOSE DOOR			15				15	3.75	8	2.00	30.00		2.00	32.0
POSTOPS			0				30		4	2.00			2.00	32.0
TRANSONIC TOTALS										57.7	1,046.4	25.6	37.7	843.7

A. FORCE TESTS (CONTINUED)

b. SUPERSONIC TESTING (WITH BLOCKS)

ACTIVITY	PER CONFIG										TOTAL				
	N	PT	MM	VARY	ATP	OP	SEC/ATP	TIME (MIN)	MWH	OCCUR.	OSH	MWH	ADH	UDH	MIRS
INSTALL BLOCKS								240		1	4.00				48.0
PREOPS								30		3	1.50			1.50	24.0
ON LINE			25	N,PT				5	2.08	10	0.83	20.83	0.83	0.83	13.3
DRYING	1.6	1300	42	SCH				10	7.00	10	1.67	70.00	1.67	1.67	26.7
FLOW ANGLE	1.6	1300	42	ALPHA	15	1	6	1.5	1.05	1	0.03	1.05	0.03	0.03	0.4
TESTING	1.6	1300	42	ALPHA	15	1	6	1.5	1.05	10	0.25	10.50	0.25	0.25	4.0
TESTING	1.6	1300	42	BETA	11	6	13	14.3	10.01	10	2.38	100.10	2.38	2.38	38.1
OPEN DOOR			15					16	4.00	8	2.13	32.00		2.13	34.1
MODEL CHANGE			15					30	7.50	8	4.00	60.00		4.00	64.0
CLOSE DOOR			15					15	3.75	8	2.00	30.00		2.00	32.0
CHANGE BLOCKS								480		1	8.00				96.0
ON LINE			26	N,PT				5	2.17	10	0.83	21.67	0.83	0.83	13.3
DRYING	2	1500	44	SCH				10	7.33	10	1.67	73.33	1.67	1.67	26.7
FLOW ANGLE	2	1500	44	ALPHA	15	1	6	1.5	1.10	1	0.03	1.10	0.03	0.03	0.4
TESTING	2	1500	44	ALPHA	15	1	6	1.5	1.10	10	0.25	11.00	0.25	0.25	4.0
TESTING	2	1500	44	BETA	11	6	13	14.3	10.49	10	2.38	104.87	2.38	2.38	38.1
OPEN DOOR			15					16	4.00	8	2.13	32.00		2.13	34.1
MODEL CHANGE			15					30	7.50	8	4.00	60.00		4.00	64.0
CLOSE DOOR			15					15	3.75	8	2.00	30.00		2.00	32.0
POSTOPS								30		3	1.50			1.50	24.0
SUPERSONIC TOTALS											41.6	658.5	10.3	29.6	617.3

c. SUMMARY

	OSH	MWH	ADH	UDH	MIRS
TRANSONIC TOTALS	57.7	1046.4	25.6	37.7	843.7
SUPERSONIC TOTALS	41.6	658.5	10.3	29.6	617.3
TOTAL	99.3	1704.9	35.9	67.3	1461.1

A. FORCE TESTS (CONTINUED)

3. TIME & ENERGY USED ON A FORCE TEST IN TUNNEL 4T WITH A FLEXIBLE NOZZLE

ACTIVITY	M	PT	MM	VARY	ATP	OP	PER CONFIG			TOTAL				
							SEC/ATP	TIME(MIN)	MMH	CONFIG	OSH	MMH	ASH	UDH
INSTALLATION							1200		1	20.00	0.00			240.0
PREOPS							30		5	2.50	0.00		2.50	40.0
ON-LINE			28	N,PT			3	1.40	10	0.50	14.00	0.50	0.50	8.0
DRYING	0.2	3200	45	SCH			2	1.50	10	0.33	15.00	0.33	0.33	5.3
FLOW ANGLE	0.2	3200	45	ALPHA	15	1	6	1.5	1	0.03	1.13	0.03	0.03	0.4
TESTING	0.2	3200	45	ALPHA	15	1	6	1.5	10	0.25	11.25	0.25	0.25	4.0
TESTING	0.2	3200	45	BETA	11	6	13	14.3	10	2.38	107.25	2.38	2.38	38.1
CHANGE			39	N,PT			3	1.95	10	0.50	19.50	0.50	0.50	8.0
FLOW ANGLE	0.4	2200	35	ALPHA	15	1	6	1.5	1	0.03	0.88	0.03	0.03	0.4
TESTING	0.4	2200	35	ALPHA	15	1	6	1.5	10	0.25	8.75	0.25	0.25	4.0
TESTING	0.4	2200	35	BETA	11	6	13	14.3	10	2.38	83.42	2.38	2.38	38.1
CHANGE			35	N,PT			3	1.75	10	0.50	17.50	0.50	0.50	8.0
FLOW ANGLE	0.6	1600	35	ALPHA	15	1	6	1.5	1	0.03	0.88	0.03	0.03	0.4
TESTING	0.6	1600	35	ALPHA	15	1	6	1.5	10	0.25	8.75	0.25	0.25	4.0
TESTING	0.6	1600	35	BETA	11	6	13	14.3	10	2.38	83.42	2.38	2.38	38.1
CHANGE			35	N,PT			3	1.75	10	0.50	17.50	0.50	0.50	8.0
FLOW ANGLE	0.8	1400	35	ALPHA	15	1	6	1.5	1	0.03	0.88	0.03	0.03	0.4
TESTING	0.8	1400	35	ALPHA	15	1	6	1.5	10	0.25	8.75	0.25	0.25	4.0
TESTING	0.8	1400	35	BETA	11	6	13	14.3	10	2.38	83.42	2.38	2.38	38.1
CHANGE			35	N,PT			3	1.75	10	0.50	17.50	0.50	0.50	8.0
FLOW ANGLE	0.95	1300	35	ALPHA	15	1	6	1.5	1	0.03	0.88	0.03	0.03	0.4
TESTING	0.95	1300	35	ALPHA	15	1	6	1.5	10	0.25	8.75	0.25	0.25	4.0
TESTING	0.95	1300	35	BETA	11	6	13	14.3	10	2.38	83.42	2.38	2.38	38.1
CHANGE			35	N,PT			3	1.75	10	0.50	17.50	0.50	0.50	8.0
FLOW ANGLE	1.05	1200	35	ALPHA	15	1	6	1.5	1	0.03	0.88	0.03	0.03	0.4
TESTING	1.05	1200	35	ALPHA	15	1	6	1.5	10	0.25	8.75	0.25	0.25	4.0
TESTING	1.05	1200	35	BETA	11	6	13	14.3	10	2.38	83.42	2.38	2.38	38.1
CHANGE			35	N,PT			3	1.75	10	0.50	17.50	0.50	0.50	8.0
FLOW ANGLE	1.2	1200	35	ALPHA	15	1	6	1.5	1	0.03	0.88	0.03	0.03	0.4
TESTING	1.2	1200	35	ALPHA	15	1	6	1.5	10	0.25	8.75	0.25	0.25	4.0
TESTING	1.2	1200	35	BETA	11	6	13	14.3	10	2.38	83.42	2.38	2.38	38.1
CHANGE			35	N,PT			3	1.75	10	0.50	17.50	0.50	0.50	8.0
FLOW ANGLE	1.3	1200	35	ALPHA	15	1	6	1.5	1	0.03	0.88	0.03	0.03	0.4
TESTING	1.3	1200	35	ALPHA	15	1	6	1.5	10	0.25	8.75	0.25	0.25	4.0
TESTING	1.3	1200	35	BETA	11	6	13	14.3	10	2.38	83.42	2.38	2.38	38.1
CHANGE			39	N,PT			3	1.95	10	0.50	19.50	0.50	0.50	8.0
FLOW ANGLE	1.6	1300	42	ALPHA	15	1	6	1.5	1	0.03	1.05	0.03	0.03	0.4
TESTING	1.6	1300	42	ALPHA	15	1	6	1.5	10	0.25	10.50	0.25	0.25	4.0
TESTING	1.6	1300	42	BETA	11	6	13	14.3	10	2.38	100.10	2.38	2.38	38.1
CHANGE			43	N,PT			3	2.15	10	0.50	21.50	0.50	0.50	8.0
FLOW ANGLE	2	1500	44	ALPHA	15	1	6	1.5	1	0.03	1.10	0.03	0.03	0.4
TESTING	2	1500	44	ALPHA	15	1	6	1.5	10	0.25	11.00	0.25	0.25	4.0
TESTING	2	1500	44	BETA	11	6	13	14.3	10	2.38	104.87	2.38	2.38	38.1
OPEN DOOR			15				16	4.00	8	2.13	32.00		2.13	34.1
MODEL CHANGE			15				30	7.50	8	4.00	60.00		4.00	64.0
CLOSE DOOR			15				15	3.75	8	2.00	30.00		2.00	32.0
POSTOPS			0				30	0.00	5	2.50	0.00		2.50	40.0
TRISONIC TOTALS										65.1	1,316.0	31.9	45.1	960.8

B. SEPARATION TESTS

1. DESCRIPTION OF A BASELINE SEPARATION TEST IN TUNNEL 4T

a. OBJECTIVE

- o TO OBTAIN FREE-STREAM, GRID, AND CTS DATA FOR TWO STORE MODELS ON ONE AIRCRAFT MODEL.

b. MEASUREMENTS:

- o ONE SIX-COMPONENT STORE BALANCE.

c. TEST MATRIX:

- o MACH NO. .6, .8, .95, 1.1, 1.3, 1.6 2.0
- o ANGLE OF ATTACK:
 - 1. STORE FREESTREAM: 15 ANGLES
 - 2. PARENT: 2 VALUES AT EACH MACH NUMBER
- o SIDE SLIP ANGLES: 3 FOR EACH FREESTREAM MACH NUMBER
- o AIRCRAFT LOADING CONFIGS: 3 FOR EACH STORE
- o CARRIAGE POSITIONS: 2 FOR EACH AIRCRAFT LOADING
- o MASS PROPERTY VARIATIONS: 3 FOR ONE STORE
- o REYNOLDS NUMBER: 2.5 MILLION/FT

d. CONSTRAINTS:

- o GRID SURVEY WILL CONSIST OF 2 TRAVERSES AT VARIOUS X, Y, AND THETA VALUES, TOTALING 100 POINTS
- o ONE HOUR TO CHANGE STORE MODEL
- o 30 MINUTES TO CHANGE AIRCRAFT LOADING CONFIGS.
- o OBTAIN 10 UOH PER DAY
- o FOR INSTALLATION, USE 12 MHR/HR
- o FOR ALL OTHER ACTIVITIES, USE 16 MHR/HR

B. CTS/GRID TESTS (CONTINUED)

2. TIME & ENERGY CURRENTLY USED ON A CTS/GRID TEST IN TUNNEL 4T

a. TRANSONIC TESTING													PER CONFIG				TOTAL (HRS)			
ACTIVITY	N	PT	NW	VARY	(POS)	(ALP)	(SEC/TRAJ)	TIME(MIN)	MMH	OCCUR.	OSH	MMH	ACH	UDH	MHRS					
INSTALLATION							1200			1	20.00				240.0					
PREOPS							30			4	2.00			2.00	32.0					
ON-LINE			23	N,PT			3	1.2		2	0.10	2.30	0.10	0.10	1.6					
DRYING	0.6	1600	35	SCH			2	1.2		2	0.07	2.33	0.07	0.07	1.1					
FREE STREAM	0.6	1600	35	ALPHA	15	3	16	12	7.0	2	0.40	14.00	0.40	0.40	6.4					
CHANGE			35	N,PT			3	1.8		2	0.10	3.50	0.10	0.10	1.6					
FREE STREAM	0.8	1400	35	ALPHA	15	3	16	12	7.0	2	0.40	14.00	0.40	0.40	6.4					
CHANGE			35	N,PT			3	1.8		2	0.10	3.50	0.10	0.10	1.6					
FREE STREAM	0.95	1300	35	ALPHA	15	3	16	12	7.0	2	0.40	14.00	0.40	0.40	6.4					
CHANGE			35	N,PT			3	1.8		2	0.10	3.50	0.10	0.10	1.6					
FREE STREAM	1.1	1200	35	ALPHA	15	3	16	12	7.0	2	0.40	14.00	0.40	0.40	6.4					
CHANGE			35	N,PT			3	1.8		2	0.10	3.50	0.10	0.10	1.6					
FREE STREAM	1.3	1200	35	ALPHA	15	3	16	12	7.0	2	0.40	14.00	0.40	0.40	6.4					
STORE MODEL CHANGE			35				30	17.5		1	0.50	17.50		0.50	8.0					
INSTALL PARENT AIRCRAFT			35				720			1	12.00				144.0					
ON LINE			35	N,PT			3	1.8		6	0.30	10.50	0.30	0.30	4.8					
DRYING	0.6	1600	35	SCH			2	1.2		6	0.20	7.00	0.20	0.20	3.2					
GRID	0.6	1600	35	X,Y,Z	100	4	6	40	23.3	6	4.00	140.00	4.00	4.00	64.0					
CHANGE			35	N,PT			3	1.8		6	0.30	10.50	0.30	0.30	4.8					
GRID	0.8	1400	35	X,Y,Z	100	4	6	40	23.3	6	4.00	140.00	4.00	4.00	64.0					
CHANGE			35	N,PT			3	1.8		6	0.30	10.50	0.30	0.30	4.8					
GRID	0.95	1300	35	X,Y,Z	100	4	6	40	23.3	6	4.00	140.00	4.00	4.00	64.0					
CHANGE			35	N,PT			3	1.8		6	0.30	10.50	0.30	0.30	4.8					
GRID	1.1	1200	35	X,Y,Z	100	4	6	40	23.3	6	4.00	140.00	4.00	4.00	64.0					
CHANGE			35	N,PT			3	1.8		6	0.30	10.50	0.30	0.30	4.8					
GRID	1.3	1200	35	X,Y,Z	100	4	6	40	23.3	6	4.00	140.00	4.00	4.00	64.0					
PROGRAM CHANGE	1.3	1200	35				6	3.5		6	0.60	21.00	0.60	0.60	9.6					
CTS	1.3	1200	35	X,Y,Z	2	2	270	18	10.5	3	0.90	31.50	0.90	0.90	14.4					
CHANGE			35	N,PT			3	1.8		3	0.15	5.25	0.15	0.15	2.4					
CTS	1.1	1200	35	X,Y,Z	2	2	270	18	10.5	3	0.90	31.50	0.90	0.90	14.4					
CHANGE			35	N,PT			3	1.8		3	0.15	5.25	0.15	0.15	2.4					
CTS	0.95	1300	35	X,Y,Z	2	2	270	18	10.5	3	0.90	31.50	0.90	0.90	14.4					
CHANGE			35	N,PT			3	1.8		3	0.15	5.25	0.15	0.15	2.4					
CTS	0.8	1400	35	X,Y,Z	2	2	270	18	10.5	3	0.90	31.50	0.90	0.90	14.4					
CHANGE			35	N,PT			3	1.8		3	0.15	5.25	0.15	0.15	2.4					
CTS	0.6	1600	35	X,Y,Z	2	2	270	18	10.5	3	0.90	31.50	0.90	0.90	14.4					
STORE MODEL CHANGE			15				30	7.5		1	0.50	7.50		0.50	8.0					
CTS	1.3	1200	35	X,Y,Z	6	2	240	48	28.0	3	2.40	84.00	2.40	2.40	38.4					
CHANGE			35	N,PT			3	1.8		3	0.15	5.25	0.15	0.15	2.4					
CTS	1.1	1200	35	X,Y,Z	6	2	240	48	28.0	3	2.40	84.00	2.40	2.40	38.4					
CHANGE			35	N,PT			3	1.8		3	0.15	5.25	0.15	0.15	2.4					
CTS	0.95	1300	35	X,Y,Z	6	2	240	48	28.0	3	2.40	84.00	2.40	2.40	38.4					
CHANGE			35	N,PT			3	1.8		3	0.15	5.25	0.15	0.15	2.4					
CTS	0.8	1400	35	X,Y,Z	6	2	240	48	28.0	3	2.40	84.00	2.40	2.40	38.4					
CHANGE			35	N,PT			3	1.8		3	0.15	5.25	0.15	0.15	2.4					
CTS	0.6	1600	35	X,Y,Z	6	2	240	48	28.0	3	2.40	84.00	2.40	2.40	38.4					
OPEN DOOR			15				16	4.0		6	1.60	24.00		1.60	25.6					
MODEL CHANGE			15				15	3.8		4	1.00	15.00		1.00	16.0					
CLOSE DOOR			15				15	3.8		6	1.50	22.50		1.50	24.0					
POSTOPS							30			4	2.00			2.00	32.0					
TRANSONIC TOTALS											83.7	1,573.1	42.6	51.7	1,210.7					

B. CTS/GRID TESTS (CONTINUED)

ACTIVITY	M	PT	MM	VARY	(POS)	(ALP)	(SEC/TRA)	PER CONFIG		OCCUR.	TOTAL				
								TIME (MIN)	MMH		OSH	MMH	ADH	UOH	MHRS
INSTALL BLOCKS								480		1	8.00				96.0
PREOPS								30		4	2.00			2.00	32.0
ON LINE			26	N,PT				5	2.2	6	0.50	13.00	0.50	0.50	8.0
DRYING	1.6	1300	42	SCH				10	7.0	6	1.00	42.00	1.00	1.00	16.0
GRID	1.6	1300	42	X,Y,Z	100	4	6	40	28.0	6	4.00	168.00	4.00	4.00	64.0
PROGRAM CHANGE	1.6	1300	42					6	4.2	6	0.60	25.20	0.60	0.60	9.6
CTS	1.6	1300	42	X,Y,Z	2	2	270	18	12.6	3	0.90	37.80	0.90	0.90	14.4
STORE MODEL CHANGE			15					30	7.5	2	1.00	15.00	1.00	1.00	16.0
CTS	1.6	1300	42	X,Y,Z	6	2	240	48	33.6	3	2.40	100.80	2.40	2.40	38.4
REMOVE PARENT AIRCRAFT			0					90	0.0	1	1.50	0.00	1.50	1.50	24.0
FREE STREAM	1.6	1300	42	ALPHA	15	3	16	12	8.4	2	0.40	16.80	0.40	0.40	6.4
CHANGE BLOCKS								360		1	6.00				96.0
ON LINE			27	N,PT				5	2.3	6	0.50	13.50	0.50	0.50	8.0
DRYING	2	1500	44	SCH				10	7.3	6	1.00	44.00	1.00	1.00	16.0
GRID	2	1500	44	X,Y,Z	100	4	6	40	29.3	6	4.00	176.00	4.00	4.00	64.0
PROGRAM CHANGE	2	1500	44					6	4.4	6	0.60	26.40	0.60	0.60	9.6
CTS	2	1500	44	X,Y,Z	2	2	270	18	13.2	3	0.90	39.60	0.90	0.90	14.4
STORE MODEL CHANGE			15					30	7.5	2	1.00	15.00	1.00	1.00	16.0
CTS	2	1500	44	X,Y,Z	6	2	240	48	35.2	3	2.40	105.60	2.40	2.40	38.4
REMOVE PARENT AIRCRAFT			0					90	0.0	1	1.50	0.00	1.50	1.50	24.0
FREE STREAM	2	1500	44	ALPHA	15	3	16	12	8.8	2	0.40	17.60	0.40	0.40	6.4
OPEN TUNNEL			15					16	4.0	12	3.20	48.00		3.20	51.2
MODEL CHANGE			15					15	3.8	8	2.00	30.00		2.00	32.0
CLOSE TUNNEL			15					15	3.8	12	3.00	45.00		3.00	48.0
POSTOPS								30		4	2.00			2.00	32.0
SUPERSONIC TOTALS											50.8	979.3	24.6	36.8	780.8

c. SUMMARY

	OSH	MMH	ADH	UOH	MHRS
TRANSONIC TOTALS	83.7	1575.1	42.6	51.7	1210.7
SUPERSONIC TOTALS	50.8	979.3	24.6	36.8	780.8
TOTAL	134.5	2554.4	67.2	88.5	1991.5

B. CTS/GRID TESTS (CONTINUED)

3. TIME & ENERGY USED ON A CTS/GRID TEST IN TUNNEL 4T WITH A FLEXIBLE NOZZLE

ACTIVITY	PER CONFIG										TOTAL (HRS)				
	N	PT	NM	VARY	(PDS)	(ALP)	(SEC/TRA)	TIME (MIN)	NMH	OCCUR.	OSH	NMH	AOH	LOH	MHRS
INSTALLATION							1200			1	20.00				240.0
PREOPS							30			7	3.50			3.50	56.0
ON-LINE			23	N,PT			3	1.2		2	0.10	2.30	0.10	0.10	1.6
DRYING	0.6	1600	35	SCH			2	1.2		2	0.07	2.33	0.07	0.07	1.1
FREE STREAM	0.6	1600	35	ALPHA	15	3	16	12	7.0	2	0.40	14.00	0.40	0.40	6.4
CHANGE			35	N,PT			3	1.8		2	0.10	3.50	0.10	0.10	1.6
FREE STREAM	0.8	1400	35	ALPHA	15	3	16	12	7.0	2	0.40	14.00	0.40	0.40	6.4
CHANGE			35	N,PT			3	1.8		2	0.10	3.50	0.10	0.10	1.6
FREE STREAM	0.95	1300	35	ALPHA	15	3	16	12	7.0	2	0.40	14.00	0.40	0.40	6.4
CHANGE			35	N,PT			3	1.8		2	0.10	3.50	0.10	0.10	1.6
FREE STREAM	1.1	1200	35	ALPHA	15	3	16	12	7.0	2	0.40	14.00	0.40	0.40	6.4
CHANGE			35	N,PT			3	1.8		2	0.10	3.50	0.10	0.10	1.6
FREE STREAM	1.3	1200	35	ALPHA	15	3	16	12	7.0	2	0.40	14.00	0.40	0.40	6.4
CHANGE			38	N,PT			3	1.9		2	0.10	3.80	0.10	0.10	1.6
FREE STREAM	1.6	1300	42	ALPHA	15	3	16	12	8.4	2	0.40	16.80	0.40	0.40	6.4
CHANGE			43	N,PT			3	2.2		2	0.10	4.30	0.10	0.10	1.6
FREE STREAM	2	1500	44	ALPHA	15	3	16	12	8.8	2	0.40	17.60	0.40	0.40	6.4
STORE MODEL CHANGE			15				30	7.5		1	0.50	7.50		0.50	8.0
INSTALL PARENT AIRCRAFT							720			1	12.00				144.0
ON LINE			23	N,PT			3	1.15		6	0.30	6.90	0.30	0.30	4.8
DRYING	0.6	1600	35	SCH			2	1.166		6	0.20	7.00	0.20	0.20	3.2
GRID	0.6	1600	35	X,Y,Z	100	4	6	40	23.33	6	4.00	140.00	4.00	4.00	64.0
CHANGE			35	N,PT			3	1.75		6	0.30	10.50	0.30	0.30	4.8
GRID	0.8	1400	35	X,Y,Z	100	4	6	40	23.33	6	4.00	140.00	4.00	4.00	64.0
CHANGE			35	N,PT			3	1.75		6	0.30	10.50	0.30	0.30	4.8
GRID	0.95	1300	35	X,Y,Z	100	4	6	40	23.33	6	4.00	140.00	4.00	4.00	64.0
CHANGE			35	N,PT			3	1.75		6	0.30	10.50	0.30	0.30	4.8
GRID	1.1	1200	35	X,Y,Z	100	4	6	40	23.33	6	4.00	140.00	4.00	4.00	64.0
CHANGE			35	N,PT			3	1.75		6	0.30	10.50	0.30	0.30	4.8
GRID	1.3	1200	35	X,Y,Z	100	4	6	40	23.33	6	4.00	140.00	4.00	4.00	64.0
CHANGE			28	N,PT			3	1.4		6	0.30	8.40	0.30	0.30	4.8
GRID	1.6	1300	42	X,Y,Z	100	4	6	40	28	6	4.00	168.00	4.00	4.00	64.0
CHANGE			43	N,PT			3	2.15		6	0.30	12.90	0.30	0.30	4.8
GRID	2	1500	44	X,Y,Z	100	4	6	40	29.33	6	4.00	176.00	4.00	4.00	64.0
PROGRAM CHANGE	2	1500	44				6	4.4		6	0.60	26.40	0.60	0.60	9.6

3. TIME & ENERGY USED ON A CTS/GRID TEST IN TUNNEL 4T WITH A FLEXIBLE NOZZLE
(CONTINUED)

ACTIVITY	PER CONFIG										TOTAL (HRS)				
	N	PT	NW	VARY	(POS)	(ALP)	(SEC/TRA)	TINE(MIN)	MWH	OCCUR.	DSH	MWH	AOH	UOH	MHRS
CTS	2	1500	44	X,Y,Z	2	2	270	18	13.2	3	0.90	39.60	0.90	0.90	14.4
CHANGE			43	N,PT				3	2.15	3	0.15	6.45	0.15	0.15	2.4
CTS	1.6	1300	42	X,Y,Z	2	2	270	18	12.6	3	0.90	37.80	0.90	0.90	14.4
CHANGE			28	N,PT				3	1.4	3	0.15	4.20	0.15	0.15	2.4
CTS	1.3	1200	35	X,Y,Z	2	2	270	18	10.5	3	0.90	31.50	0.90	0.90	14.4
CHANGE			35	N,PT				3	1.75	3	0.15	5.25	0.15	0.15	2.4
CTS	1.1	1200	35	X,Y,Z	2	2	270	18	10.5	3	0.90	31.50	0.90	0.90	14.4
CHANGE			35	N,PT				3	1.75	3	0.15	5.25	0.15	0.15	2.4
CTS	0.95	1300	35	X,Y,Z	2	2	270	18	10.5	3	0.90	31.50	0.90	0.90	14.4
CHANGE			35	N,PT				3	1.75	3	0.15	5.25	0.15	0.15	2.4
CTS	0.8	1400	35	X,Y,Z	2	2	270	18	10.5	3	0.90	31.50	0.90	0.90	14.4
CHANGE			35	N,PT				3	1.75	3	0.15	5.25	0.15	0.15	2.4
CTS	0.6	1600	35	X,Y,Z	2	2	270	18	10.5	3	0.90	31.50	0.90	0.90	14.4
STORE MODEL CHANGE			15					30	7.5	1	0.50	7.50		0.50	8.0
CTS	0.6	1600	35	X,Y,Z	6	2	240	48	28	3	2.40	84.00	2.40	2.40	38.4
CHANGE			35	N,PT				3	1.75	3	0.15	5.25	0.15	0.15	2.4
CTS	0.8	1400	35	X,Y,Z	6	2	240	48	28	3	2.40	84.00	2.40	2.40	38.4
CHANGE			35	N,PT				3	1.75	3	0.15	5.25	0.15	0.15	2.4
CTS	0.95	1300	35	X,Y,Z	6	2	240	48	28	3	2.40	84.00	2.40	2.40	38.4
CHANGE			35	N,PT				3	1.75	3	0.15	5.25	0.15	0.15	2.4
CTS	1.1	1200	35	X,Y,Z	6	2	240	48	28	3	2.40	84.00	2.40	2.40	38.4
CHANGE			35	N,PT				3	1.75	3	0.15	5.25	0.15	0.15	2.4
CTS	1.3	1200	35	X,Y,Z	6	2	240	48	28	3	2.40	84.00	2.40	2.40	38.4
CHANGE			28	N,PT				3	1.4	3	0.15	4.20	0.15	0.15	2.4
CTS	1.6	1300	42	X,Y,Z	6	2	240	48	33.6	3	2.40	100.80	2.40	2.40	38.4
CHANGE			43	N,PT				3	2.15	3	0.15	6.45	0.15	0.15	2.4
CTS	2	1500	44	X,Y,Z	6	2	240	48	35.2	3	2.40	105.60	2.40	2.40	38.4
OPEN DOOR			15					16	4	6	1.60	24.00		1.60	25.6
MODEL CHANGE			15					15	3.75	4	1.00	15.00		1.00	16.0
CLOSE DOOR			15					15	3.75	6	1.50	22.50		1.50	24.0
PDSTOPS								30		7	3.50			3.50	56.0
TRISONIC TOTALS											103.5	2,279.8	59.4	71.5	1,527.5