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Research Report

EVERGREEN POINT BRIDGE
MAINTENANCE PROBLEMS

ANNUAL REPORT

AUGUST 1976

Public Transportation and Planning Division



Washington State
Department of Transportation

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In cooperation with
U.S. Department of Transportation
Federal Highway Administration

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EVERGREEN POINT BRIDGE MAINTENANCE PROBLEMS

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PROGRESS REPORT
(Second Annual Report)

Research Project Y-1640
Phase II

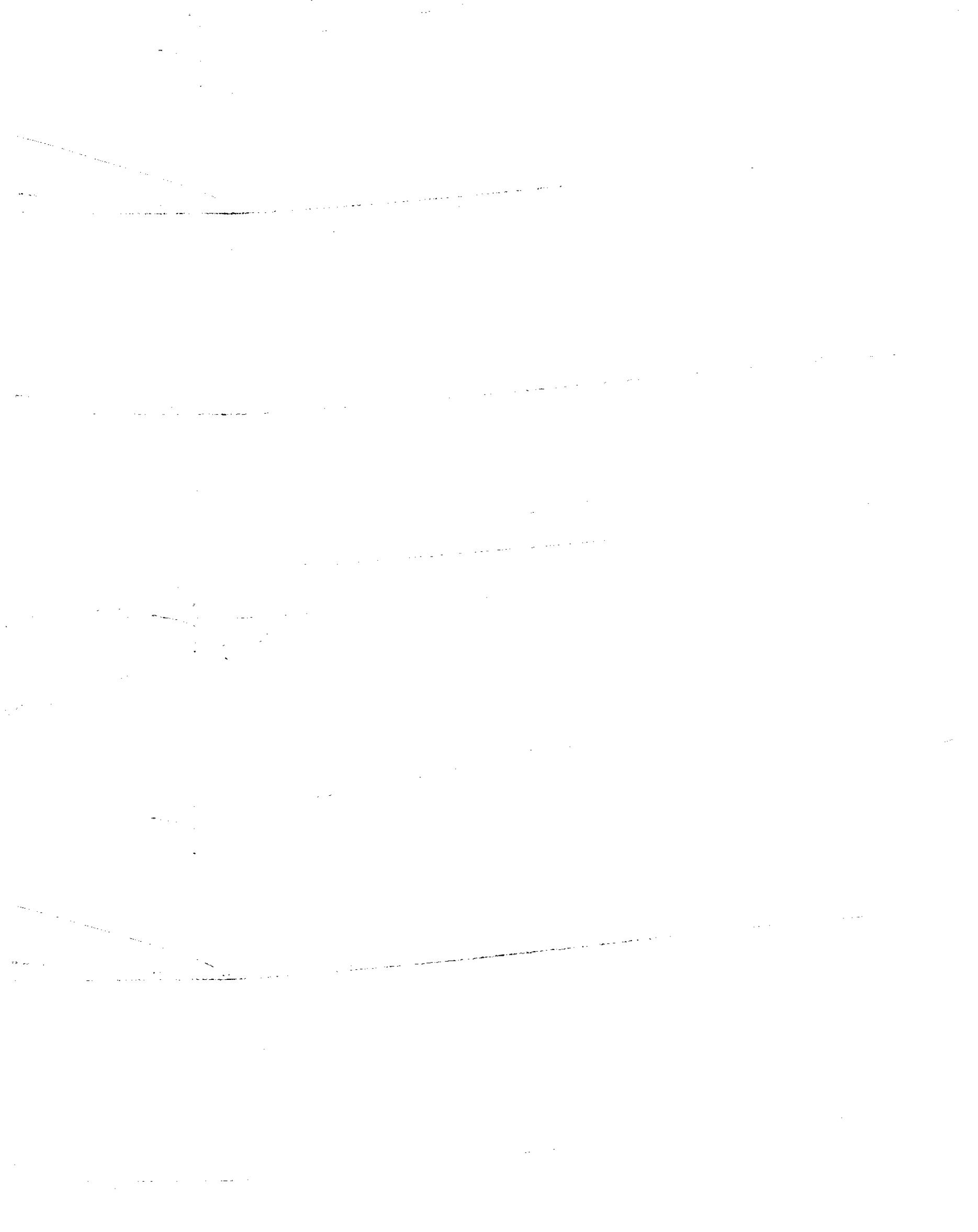
Prepared for
Washington State Highway Commission
Department of Highways
in cooperation with
U.S. Department of Transportation
Federal Highway Administration

August 1976

The contents of this report reflects the views of the author who is responsible for the facts and the accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the Washington State Department of Highways or the Federal Highway Administration. This report does not constitute a standard, specification, or regulation.

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INTRODUCTION

The work described in this report is the second year of study of the performance of the drawspan of the Evergreen Point Bridge. This report is a continuation of the Interim Report (First Annual Report) of August 1975. Therefore, only work performed in the 1975-76 contract year is included here.

The instrumentation and data recording was in the hands of Mr. Derald Christensen. The analysis of data was by Mr. Christensen and Mr. R. Vasu. For reference, the Channel Arrangement is shown on Fig. 1 with locations described in the table. Mr. Gary F. Demich has continued to provide liaison with the Highway Department. A paper of the subject of this contract was prepared by Brown, Christensen and Demich. It was presented at the A.S.C.E. 1976 National Structural Engineering Conference. A copy of the paper is included in Appendix A.

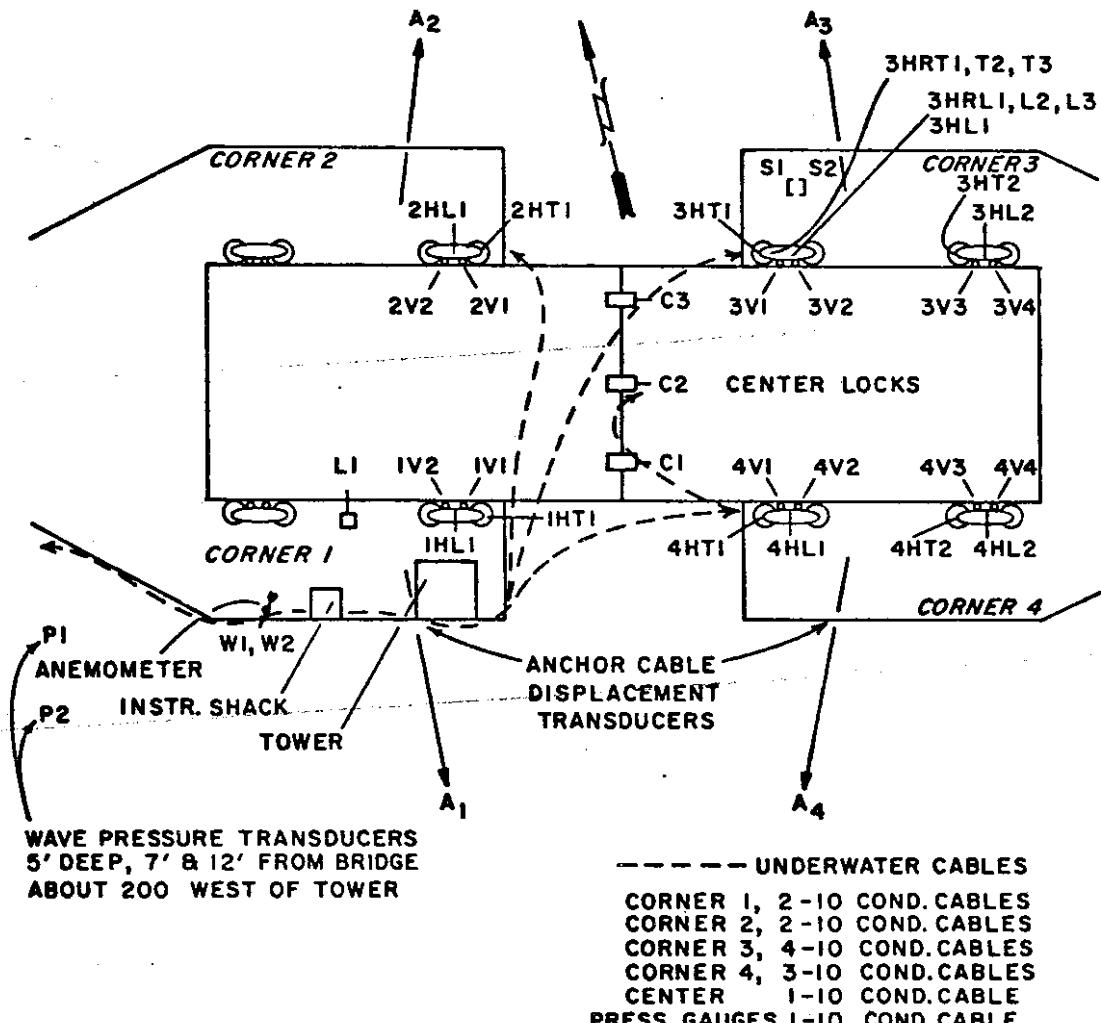


FIGURE 1

Channel Number	Mark	Measurement
1	W1	Wind Speed
2	W2	Wind direction
3	1HL1	
4	1HT1	
5	2HL1	
6	2HT1	
7	3HL1	
8	3HT1	
9	3HL2	Horizontal trunnion strains
10	3HT2	
11	3HRL1	
12	3HRL2	
13	3HRL3	
14	3HRT1	
15	3HRT2	
16	3HRT3	
17	4HL1	
18	4HT1	
19	4HL2	
20	4HT2	
21	1V1	
22	1V2	
23	2V1	
24	2V2	
25	3V1	
26	3V2	Vertical trunnion tension rod strains
27	3V3	
28	3V4	
29	4V1	
30	4V2	
31	4V3	
32	4V4	
33	C1	
34	C2	Center lock strains
35	C3	
36	L1	End lock strains
37	S1	
38	S2	Vertical trunnion support beam strains
39	P1	
40	P2	Wave pressure transducers
41	A1	
42	A2	
43	A3	
44	A4	Anchor cable displacements

INSTRUMENTATION

As reported on pages 18 and 22 of the First Interim Report, Channels 3 through 20, associated with strains on horizontal trunnions, showed intermittent signals generated by shock loading. This battering effect could not be adequately sampled at the existing 2 Hertz rate and an alternative system has been designed, installed and used in the 1975-76 storm season.

The actual type of strain signal could not be determined from the original instrumentation except that it occurred over less than $\frac{1}{2}$ sec. In fact, the pulse transpired to be less than 400 m.s. A circuit was designed to hold the peak in $\frac{1}{2}$ second sampling interval and to record this peak value at the end of the interval. The circuit is shown on Fig. 2. Unfortunately, it was not commercially available and the design and successful installation was completed by the end of November 1975. The results from this system have been quite valid.

The remaining instrumentation is as provided in the first year of work.

DATA ACCUMULATION AND ANALYSIS

It was found that data set size (92115 samples/record) could not be efficiently handled by the existing software for converting the original tapes and subsequent data analysis. In all cases, the basic problem was the increase in job costs when such large data blocks were used. The charges in accounting and charges at the University of Washington Computer Center in part changed the economic viability of existing packages.

New software was prepared to process the conversion and analysis of data efficiently. This tape conversion program was fully effective in February, 1976. Existing programs were employed until this time. Appendix B displays these currently used programs.

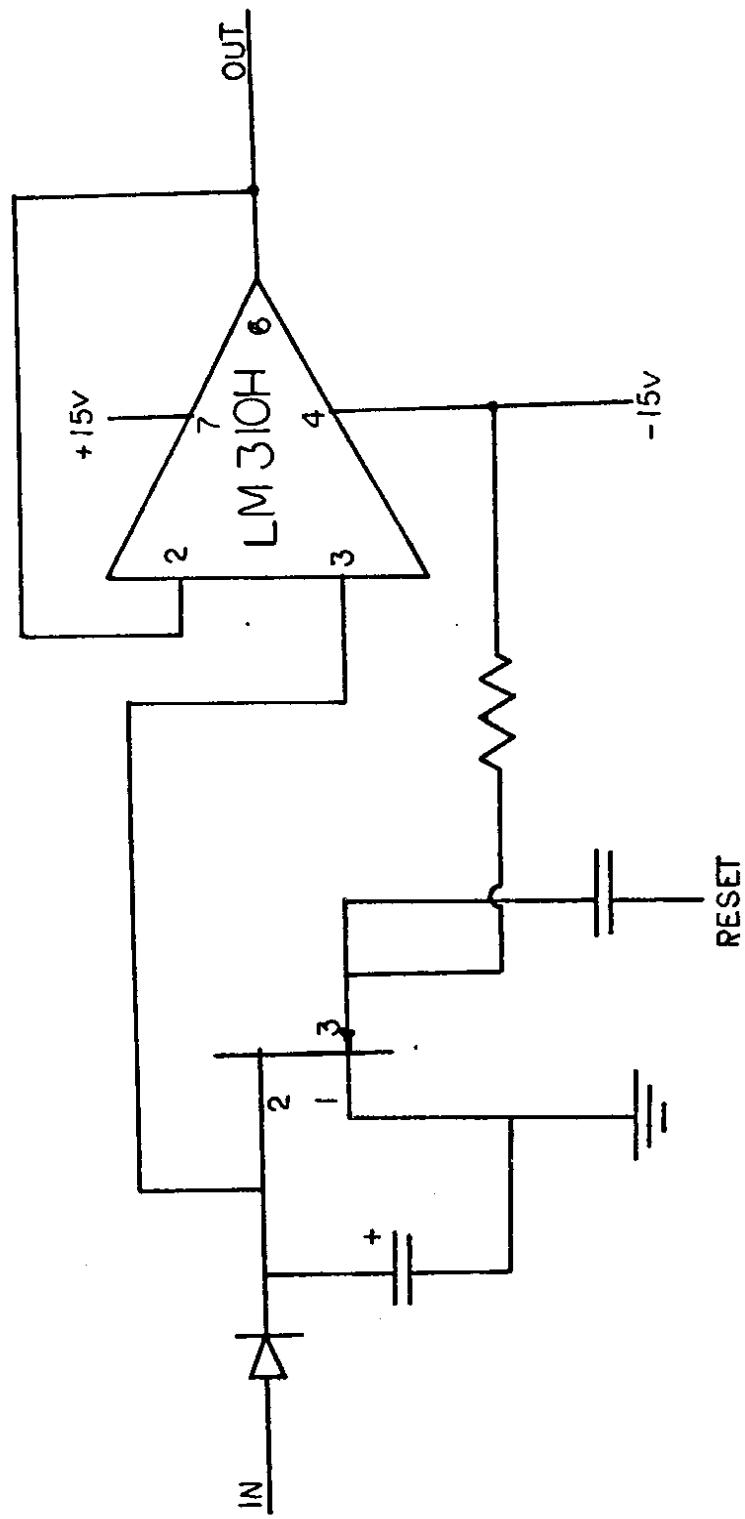


FIG. 2 SAMPLE HOLDING CIRCUIT

The following Table shows the various data records made. The Table includes tape number, dates tape was in instrument, number of records with wind over 20 m.p.h. and comments. Tapes 21 through 33 have been analysed fully. Appendix C gives a summary of statistical data for these 71 records. Essentially, the analysis has presented the maximum, minimum, mean and standard deviation for each record.

Complete recording during the 1975-76 storm season was frustrated by adjustments to instrumentation made necessary by alterations and construction carried out on the drawspan vicinity. Channels 41 through 48 were continually out of action up to January 1976. This was caused by construction activity and subsequent repeated damage to the transducer extension rods. A more usual interruption occurred because of anchor cable adjustment at the spring and fall water level change. Damage to Channel 36 on the end lock was caused by bridge opening and at the replacement of the endlock.

The complete system was out of action in March and most of April, 1976 due to the installation of wave deflectors and relocation of the instrument shed. The wave transducers had to be removed permanently to make way for the wave deflectors.

TAPES AND RECORDING DATES

Tape #	Dates		No. of Rec.	Comments
EG 1	3/21/75	3/24/75		
EG 2	3/25/75	3/26/75		
EG 3	4/2/75	4/2/75		
EG 4	4/2/75	4/28/75		
EG 5	4/28/75	5/3/75		
EG 6	5/3/75	5/4/75		
EG 7	5/5/75	5/18/75		
EG 8	5/18/75	6/11/75		
EG 9	10/3/75	10/7/75		out for summer
EG 10	11/5/75			
EG 11	11/6/75	11/7/75		
EG 12	11/7/75	11/10/75		
EG 13				
EG 14	11/14/75	11/17/75		
EG 15	11/21/75	11/23/75		
EG 16	11/23/75	11/25/75		
EG 17	11/26/75	11/30/75		
EG 18	11/30/76	12/1/75		
EG 19	12/1/75	12/2/75		
EG 20	12/2/75	12/3/75		
EG 21	12/4/75	12/12/75	1	
EG 22	12/12/75	12/15/75	6	
EG 23	12/15/75	12/26/75	-	
EG 24	12/26/75	12/29/75	9	
EG 25	12/31/75	1/11/76	12	
EG 26	1/11/76	1/13/76	3	
EG 27	1/13/76	1/14/76	3	
EG 28	1/14/76	2/2/76	1	
EG 29	2/2/76	2/8/76	3	
EG 30	2/9/76	2/17/76	10	
EG 31	2/7/76	2/25/76	10	
EG 32	2/25/76	2/27/76	7	
EG 33	2/27/76	2/29/76	6	
EG 34	4/18/76	→		

initial calibration

out for summer

calibration and testing

used for analysis

PREDICTIONS

One objective of the study is to determine a statistical history of straining on essential elements. The process of the study is as follows:

- a) The recording of single season wind and strain data;
- b) The statistical analysis of such wind and strain data;
- c) The obtaining of the long term wind data;
- d) The development of the relationship between the long term wind data and single season wind data;
- e) The development of the relationship of single season strains with single season wind data
- f) The use of (d) and (e) to obtain a long term strain forecast.

Parts (a) and (b) have been dealt with in the previous portion of this report.

Here (c) and (d) will be discussed fully and the position on (e) and (f) reviewed.

Information from the Highway Department for the period from March 1964 to June 1975 showed the wind speed and direction taken at a minimum of 8 hourly intervals. In all 12150 such observations were recorded and are organised in the Table. Here the number of observations in 10 m.p.h. bands at various wind directions are set out and the percentage of the total record figured below. When only recordings over 20 m.p.h. are included, 2701 observations are relevant. It is clear, from this data, that the predominant wind is from the south, where 31% of the results occur.

In contrast to this long term data, the single season record included 76 samples, 70 with wind speeds over 20 m.p.h.

In order to have a valid transformation from short term to long term results, the method of maximizing entropy was used to present the data. This method essentially asks the question: "What distribution describes the data,

PERCENTAGE FREQUENCY DISTRIBUTION OF EVERGREEN POINT FLOATING BRIDGE WIND DATA
March 1964-June 1975

Speed in m.p.h.	0-10	10-20	20-30	30-40	40-50	50-60	60-70	over 70	TOTAL
Direction									
N	884.0	384.0	27.0	1.0	0	0	0	0	1296.0
	7.3	3.2	.2	.1	0	0	0	0	10.7
NE	1058.0	302.0	10.0	0.0	1.000	0	0	0	1371.0
	8.7	2.5	.1	.005	0	0	0	0	11.3
NW	354.0	213.0	24.0	6.0	0	0	0	0	597.0
	2.9	1.8	.2	0	0	0	0	0	4.9
S	918.0	1356.0	848.0	484.0	129.0	26	5	3	3769.0
	7.6	11.2	7.0	4.0	1.1	2	0	0	31.0
SE	801.0	544.0	179.0	59.0	15.0	2	0	0	1600.0
	6.6	4.5	1.5	.5	.1	0	0	0	13.2
E	1198.0	40.0	6.0	1.0	0	0	0	0	1207.0
	1.6	.3	.0	.0	0	0	0	0	9.9
W	199.0	21.0	5.0	1.0	0	0	0	0	226.0
	1.6	.2	.0	.0	0	0	0	0	1.9
Calm and others	1744.0	76.0	13.0	4.0	1	0	0	0	1839.0
	94.8	.6	.1	.0	0	0	0	0	15.1
Total	6524.0	1376.0	680.0	182.0	34.0	9.0	3	12,150.0	
	53.7	27.5	11.3	5.6	1.5	.3	.1	0	100.0

TOTAL 12,150 VALUES

as presented through averages, without employing any bias?" The answer is, that distribution which maximizes the entropy subject to the constraints of the data. Hence a program

$$\text{Max } H = - \sum_i p_i \ln p_i$$

subject to:

$$\sum_i p_i \gamma_i^n = \bar{\gamma}_n$$

$$\sum_i p_i = 1$$

$$p_i \geq 0; \quad M \leq \gamma_i \leq L$$

where p_i is the probability of γ_i , H is the entropy, $\bar{\gamma}_n$ the n^{th} average of γ_i and L and M limits on γ_i , provides the unbiased estimate of p_i . In our case $L = \infty$ and n takes on values of 1 and 2. M is the lowest wind speed or strain included. This means that the data confidently produces a mean and a standard deviation together with a lower limit of zero. The resulting probability distributions are always exponential and depend on the value of n . Thus for $L = -M = \infty$, and $n = 2$, the probability is normal. The analysis is by Lagrangian multipliers, λ_j , $j = 0$ to n giving the distribution

$$p(x) = \exp (-\lambda_0 - \lambda_1 x - \lambda_2 x^2 - \dots - \lambda_n x^n)$$

The Table gives the values of the λ , mean and standard deviation for this distribution with $n = 2$ for the complete data, complete data over 20 m.p.h., the season data and the season data over 20 m.p.h.

DESCRIPTION OF THE PARAMETERS FOR DIFFERENT TYPE OF DATA

$$f(x) = \exp(-\lambda_0 - \lambda_2 x - \lambda_2 x^2)$$

Number of Values and Type of Data	Description of Parameters		
12150 Complete data	AVG = 12.712 λ_0 = 6.670	Std. dev. = 10.996 λ_1 = -0.105	VAR = 120.91740 λ_2 = 0.00413
2701 Speed greater than 20 m.p.h.	AVG = 29.647 λ_0 = 11.240	Std. dev. = 8.689 λ_1 = -0.392	VAR = 75.5070 λ_2 = 0.0066
76 Sample data (instrumented)	AVG = 24.923 λ_0 = 18.056	Std. dev. = 4.678 λ_1 = -1.138	VAR = 21.8900 λ_2 = 0.0228
70 Speed greater than 20 m.p.h.	AVG = 25.866 λ_0 = 38.032	Std. dev. = 3.082 λ_1 = -2.722	VAR = 9.5008 λ_2 = 0.0520

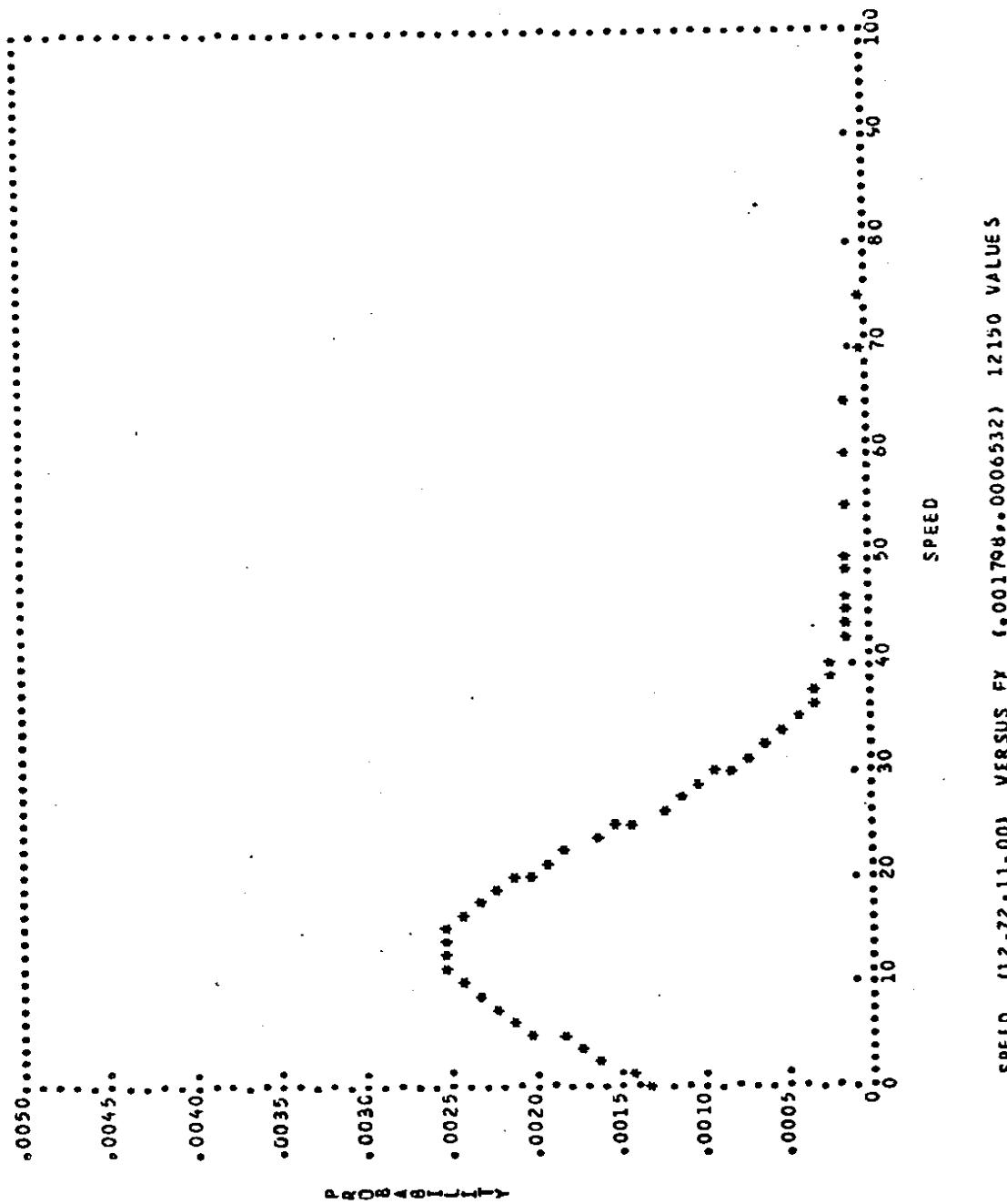
Fig. 3 through 6 provide plots of these distributions.

Two features are now exhibited; unbiased distributions for long term and seasonal wind data. The seasonal data for wind must be related to the same data for strain. The transformation must be in terms of the mean, standard deviation and extremes of wind. Then the strain can be expressed as a function of the wind mean speed, standard deviation and limits. Thus, the seasonal wind information (Fig. 6) can be transformed to the seasonal strain information.

$$p(\epsilon) = f(\mu_W, \sigma_W, W_{\min}, W_{\max}, W)$$

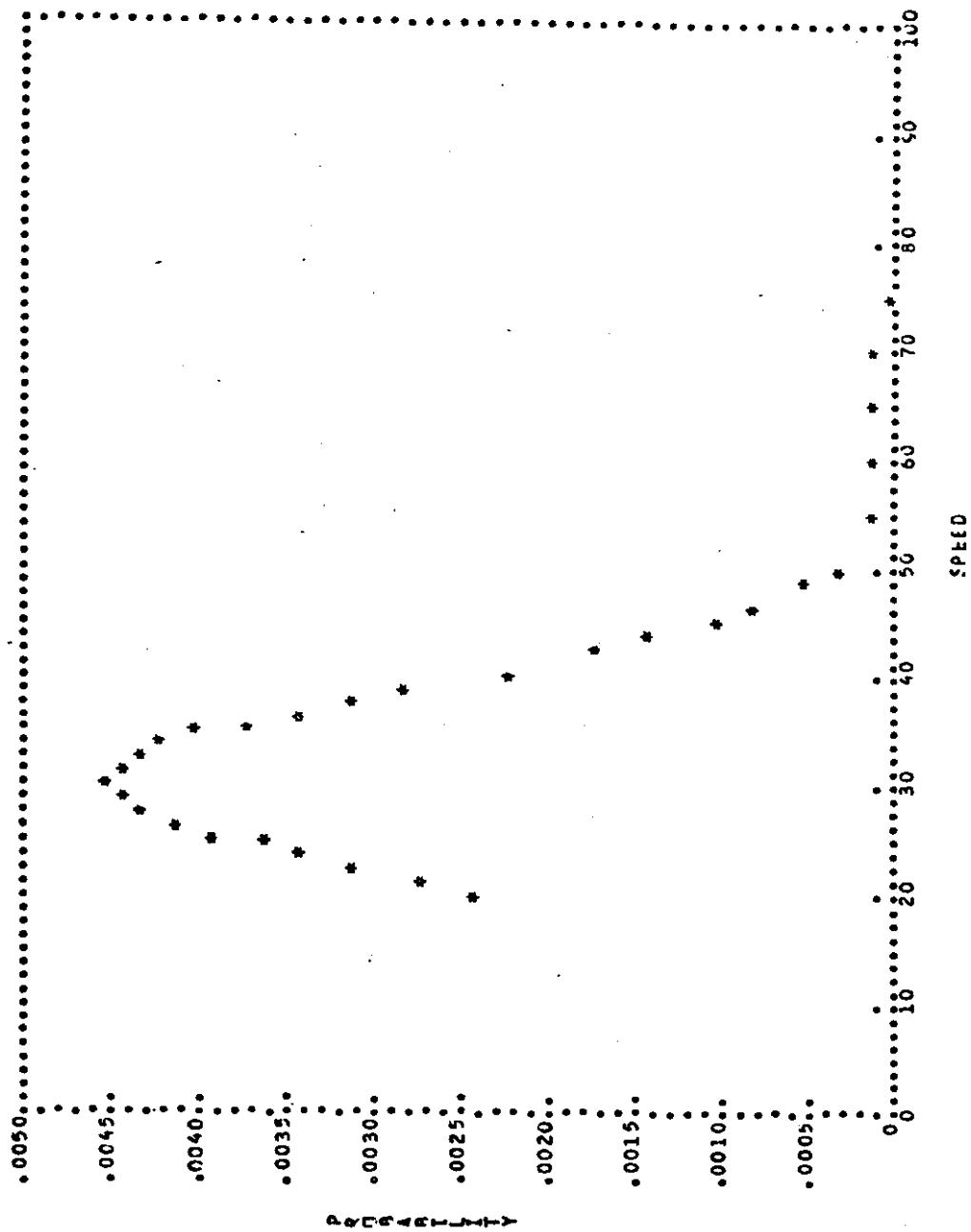
In a like manner, the same transformation applied to the long term wind (Fig. 4) leads to the long term strain distribution. The ongoing analysis is centered around the description of this transformation.

PROBABILITY DISTRIBUTION FUNCTION FOR EVERGREEN WIND DATA
LONG TERM OBSERVATION



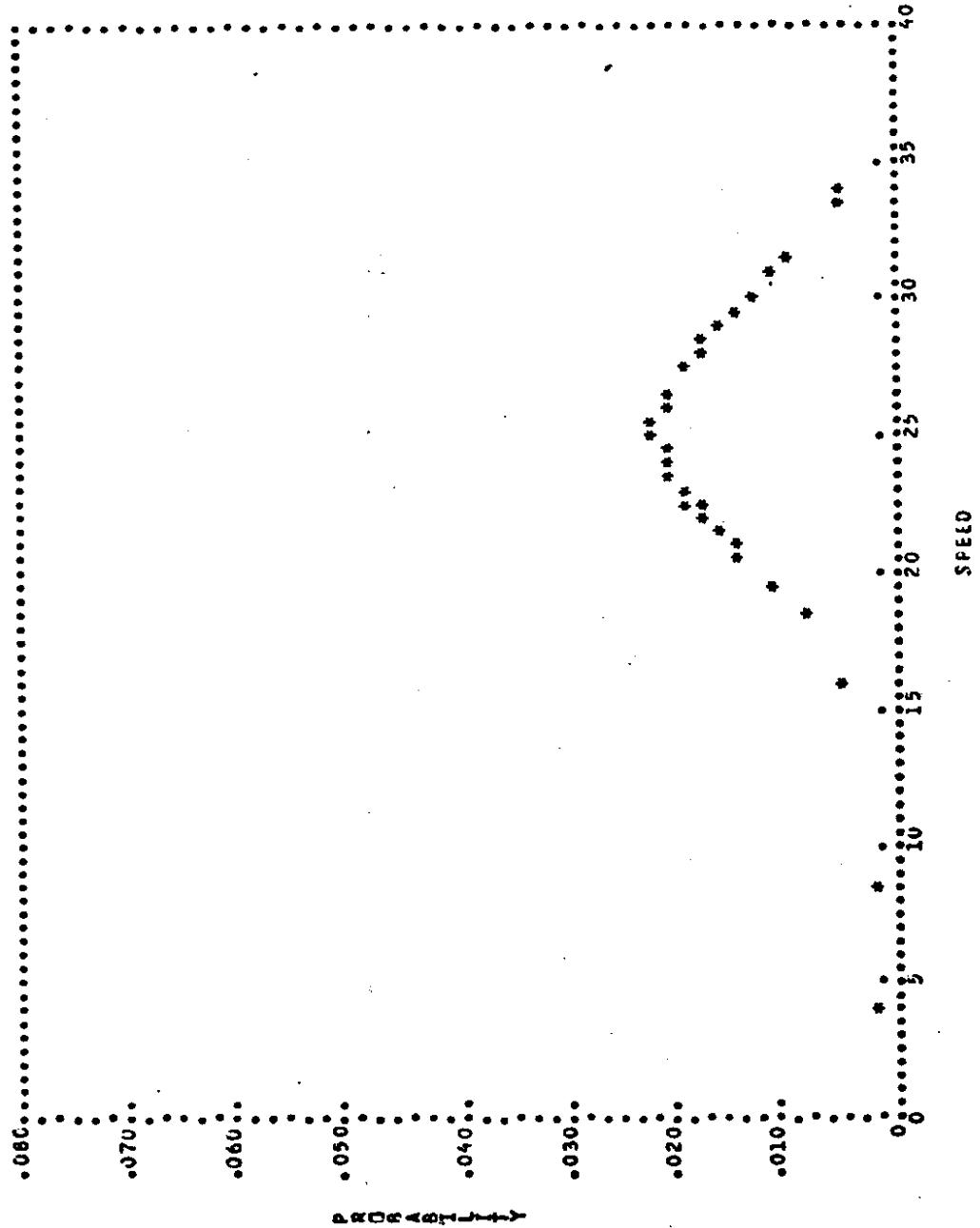
SPEED (12.72,11.00) VERSUS FX (.0001798,.0006532) 12150 VALUES

PENETRABILITY DISTRIBUTION FUNCTION FOR EVERGREEN WIND DATA
SPEED OVER 20 MPH



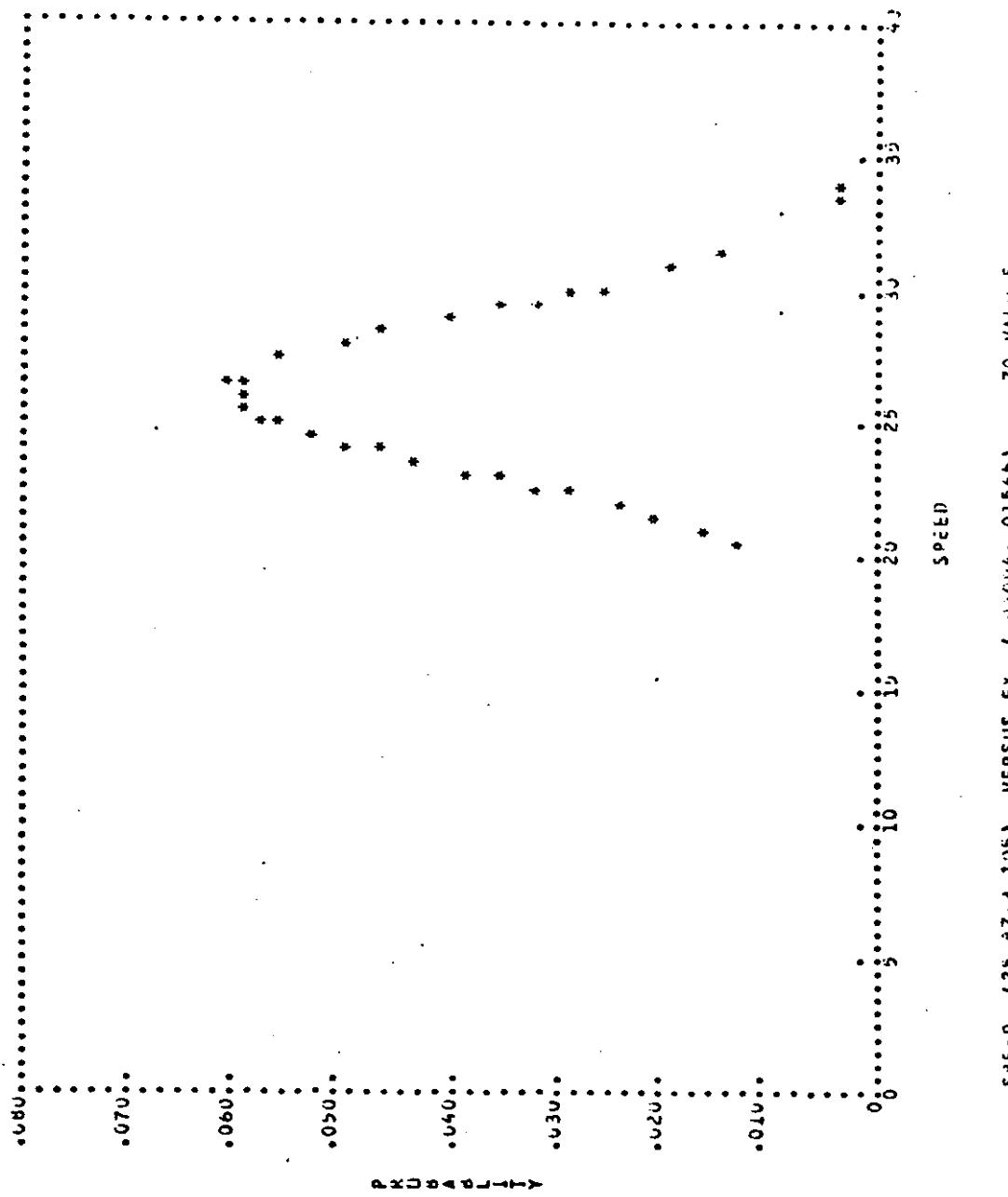
SPFD (29.62,d.691) VERSUS FX (.003174,.001043) 2701 VALUES

PROBABILITY DISTRIBUTION FUNCTION OF EVERGREEN WIND DATA
SHORT TERM INSTRUMENTED OBSERVATION



SPEED (24.92, 24.71) VERSUS FY (.01622, .005256) 76 VALUES

PROBABILITY DISTRIBUTION FUNCTION OF EVERGREEN WIND DATA
SIXTY TEKM INSTRUMENTED OBSERVATION SPEED OVER 20MPH



SPC0 (25.37,3.155) VERSUS FX (.04044,.01565) 70 VALUES

APPENDIX A

Paper by C. Brown, D. Christensen and G. Demich

Entitled

"Evergreen Point Bridge Maintenance Problems"

Presented at:

National Structural Engineering Conference
A.S.C.E.
Madison, Wisconsin, 1976

EVERGREEN POINT BRIDGE MAINTENANCE PROBLEMS

C. B. Brown¹, M.A.S.C.E., D. R. Christensen¹ and G. F. Demich²

Synopsis

The Evergreen Point Bridge includes 7,518' of floating structure in Lake Washington. Near the middle of this structure is a 200' drawspan arrangement. Severe damage due to wave battering has caused failure of elements of this drawspan and storm closures have been instituted to prevent such damage. The study reported was to obtain information which would allow orderly maintenance procedures to be set up with minimum interference with the bridge operation. This information is being obtained by the measurement of critical strains and wind characteristics. The analysis of the recorded strain signals allows the frequency associated with a given strain level to be determined. Including these results and the number of cycles to failure for various stress levels and ranges, into Miner's hypothesis allows the time to failure to be estimated. The paper describes the methods adopted to carry out such a procedure on the Evergreen Point Bridge.

Introduction

The Evergreen Point Bridge crosses Lake Washington from the east into Seattle. The region of interest is the 7,518' of floating structure and particularly the 200' drawspan arrangement near mid-lake. Fig. 1 shows the location of the structure with a 4 mile fetch from the Mercer Island floating bridge. Storms are predominantly from the south and southwest directions. The highest gust velocity was from the southwest at 87 mph and the highest one hour average was 47 mph. In contrast, the highest wind speed from the north over the last 10 years was 40 mph. Since the bridge was completed in 1963, storms have caused damage to the mechanical parts of the drawspan. Various replacements and improvements have been subsequently made. The object of this study, which was initiated in August, 1974, is to determine a program for efficient maintenance of the drawspan arrangement. Additionally, the measurements and analyses may suggest design improvements.

An impression of the drawspan arrangement is given in Fig. 2. The operation requires the raising of the two 105' steel grid decks by 7'-2" to allow the long structural movement of the drawspan pontoons in to the vacated spaces. Previous damage and experience had shown that the trunnion and locking devices should be studied. However, anchor cables adjacent to the opening were also instrumented and wind velocities and wave pressures were recorded.

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²Washington State Highway Commission, Olympia, Washington

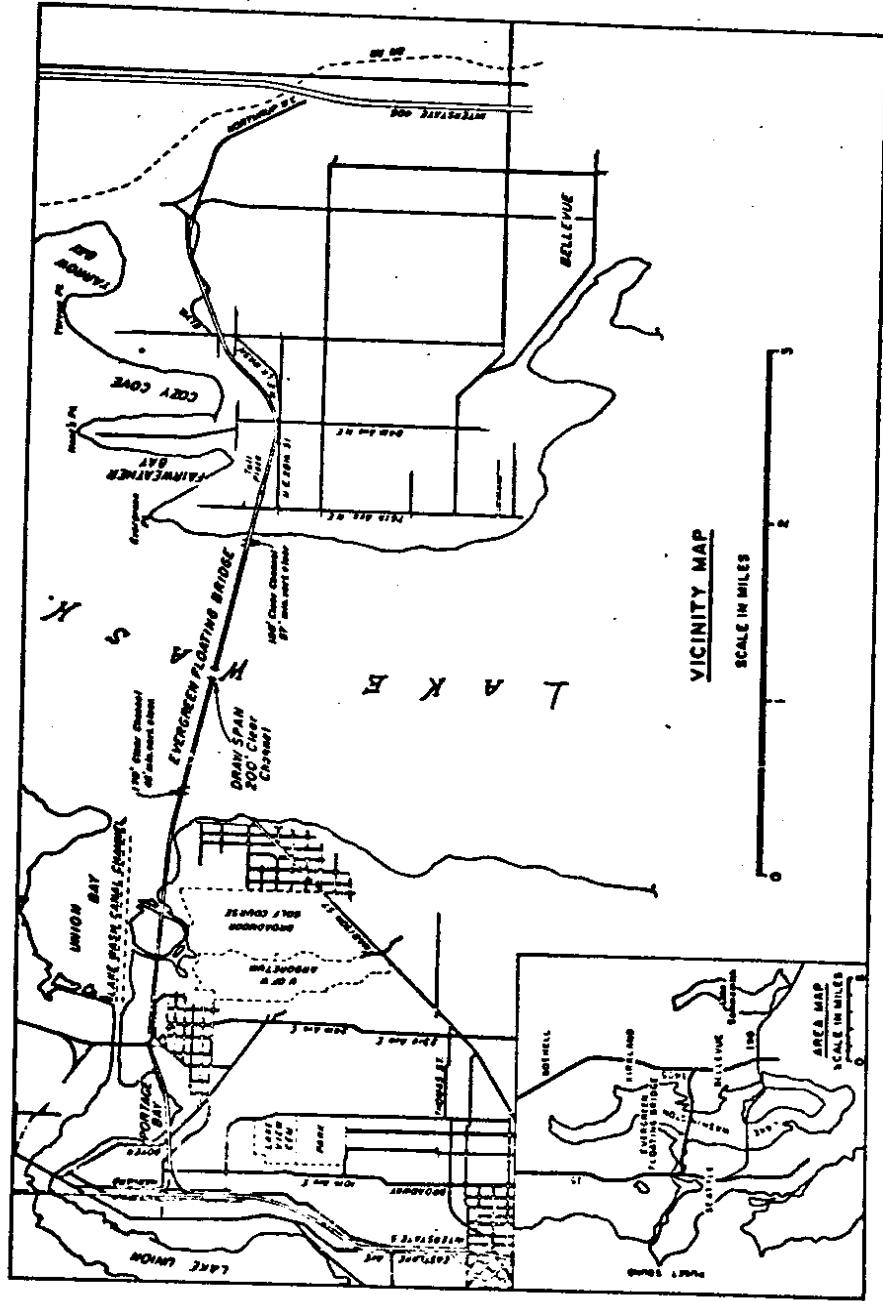


FIGURE 1 BRIDGE LOCATION

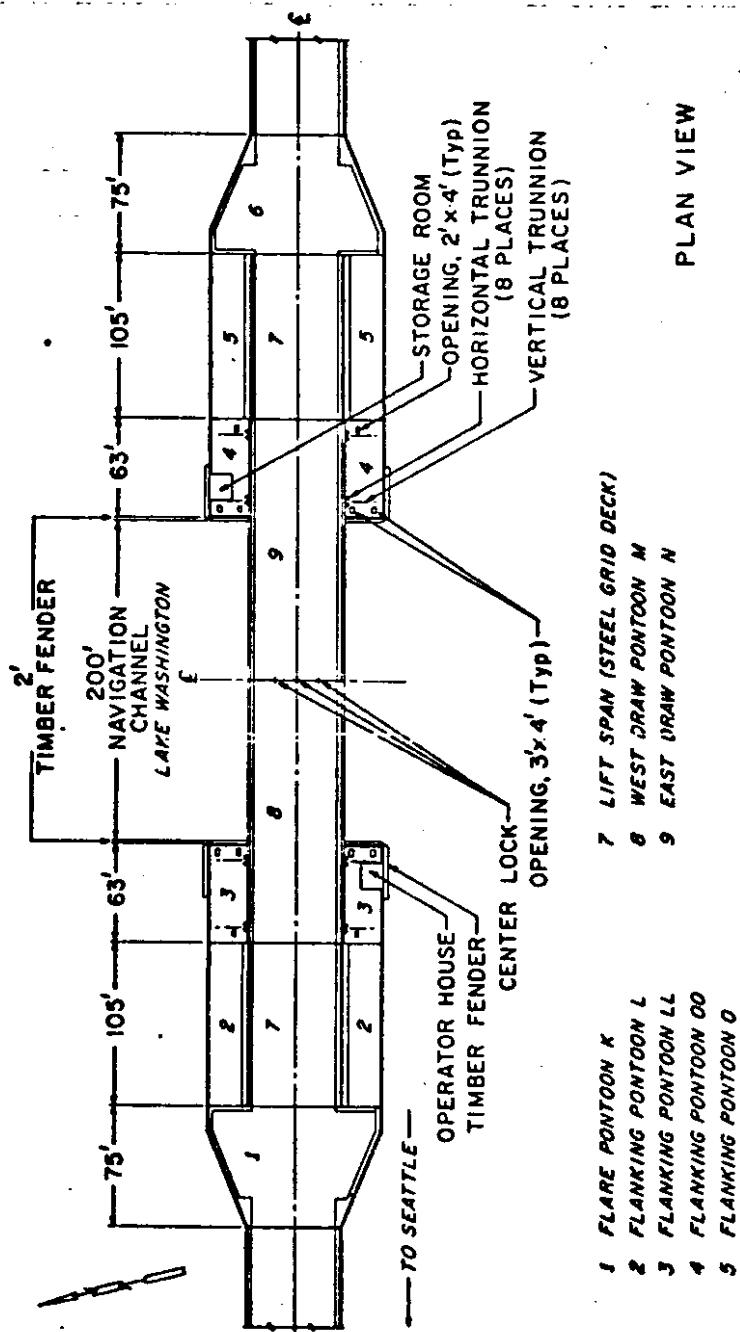


FIGURE 2 DRAWSPAN FEATURES

The damage to the parts of the drawspan was cumulative and a possible measure for failure due to these conditions is Miner's hypothesis. In this, failure occurs when

$$\sum_i \frac{n_i}{N_i} = 1 \quad (1)$$

where n_i is the number of actual cycles of oscillatory stress range $\pm S_i$ and N_i is the number of cycles to cause failure in this range. The various n_i can be expressed as

$$N_i = \alpha_i T_f f_i \quad (2)$$

where α_i is the proportion of the time and f_i , the frequency of oscillation at the stress range $\pm S_i$. T_f is the total time to failure of the stressed part and is described by

$$T_f = \left[\sum_i \frac{\alpha_i f_i}{N_i} \right]^{-1} \quad (3)$$

This paper describes a set of measurements that were designed to give an estimate of T_f . They concentrate on the part $\alpha_i f_i$ which must be obtained from the actual field conditions. The N_i require laboratory testing.

Experimental Design

The record of strain (ϵ) as it varied with time (t) was to be taken for x minutes every hour whilst wind speeds exceeded a definite value. This record can be considered as typical for the encompassing hour period. The mean of the record was the existing static stress and is zero for the oscillatory stress record. Hence, the variance is given by the second moment of the sample data as

$$\sigma^2(\epsilon) = M_2 \quad (4)$$

Additionally, time may be introduced into the statistics of $\epsilon(t)$ by the correlation

$$C(\tau) = \lim_{T \rightarrow \infty} \frac{1}{T} \int_{-T/2}^{T/2} \epsilon(t) \epsilon(t+\tau) dt \quad (5)$$

which for a stationary process may be expressed as

$$C(\tau) = \int_{-\infty}^{\infty} D(f) e^{i 2\pi f \tau} df \quad (6)$$

with inverse

stable measurement of the one-sided spectral density function in this case can be obtained by

$$D(f) = \int_{-\infty}^{\infty} C(\tau) e^{-j2\pi f\tau} d\tau \quad (7)$$

$D(f)$ is the two-sided spectral density function and if the frequency is positive, then the one-sided spectral density function is

and hence the value of $G(f)$ can be obtained from the various f_j can be expressed

$$G(f) = 2 D(f); 0 \leq f \leq \alpha$$

$$= 0; f < 0 \quad (8)$$

Equations (4) and (8) are related by

which at the highest frequency, α , the frequency content of the stressed part and the total stress

$$\sigma^2 = \int_0^\infty G(f) df \quad (9)$$

and $G(f)$ represents the frequency content of $\epsilon(t)$.

For the j^{th} sample, the standard deviation is σ_j . The system is elastic and hence, the strains are linearly related to stresses. The frequencies for all strains, $k\sigma_j$, are now required. For $k = 1$

give an estimate of σ_j . The corresponding value of σ_j is obtained from the set of data obtained during testing.

$$f_j(k=1) = \frac{1}{\sigma_j^2} \int_0^\infty f G_j(f) df \quad (10)$$

Experimental Data

If $\epsilon(t)$ is assumed to be narrow banded and normally distributed about a zero mean then, using the Huston-Skopinski assumption, the probability density for the peak magnitudes and of the envelope are given by the Rayleigh distribution

for the distribution of the peak magnitude, the density is given by the second moment of the sample

$$p_j(\epsilon = k\sigma_j) = \frac{k}{\sigma_j} e^{-k^2/2} \quad (11)$$

$$\text{hence } \frac{p_j(k)}{p_j(1)} = k e^{-1/2(k^2-1)} \quad (12)$$

Accumulation time may be introduced into the statistics of the sample

Now if

$$\frac{f_j(k)}{f_j(1)} = \frac{p_j(k)}{p_j(1)} \quad (13)$$

then

$$f_j(k) = \frac{k}{\sigma_j^2} e^{-1/2(k^2-1)} \int_0^\infty f G_j(f) df \quad (14)$$

N as a function of k can be obtained from endurance test data. Then for the j^{th} sample of a year record, the ratio in equation (3) is

$$\frac{1}{24 \times 365} \int_0^\infty \frac{f_j(k)}{N(k)} dk \quad (15)$$

and

$$T_f = \left[\sum_j \left\{ \int_0^\infty \frac{f_j(k)}{N(k)} dk \right\} \right]^{-1} \quad (16)$$

The field experiment is, therefore, required to provide a record of $\epsilon(t)$ for x minutes of every hour that the wind speed exceeds a definite value. Hence, $\epsilon(t)$ and $v(t)$ should be recorded. (Later in the paper these records are needed to improve T_f by the inclusion of effects beyond one year). The experiment for $N(k)$ should provide typical endurance test results.

Data Recording Device

The field experiment outlined suggests the requirements of a data recording device. Four approaches were considered, namely a strip chart, F.M. analog magnetic tape, digital magnetic tape recorders and a mini-computer with digital to analog conversion. The strip chart recorder was not employed because of the anticipated large data output with the resulting unrealistic time demand for data reduction. Although the F.M. tape recorder allows the use of any analysis technique and the original data is retained, its use was abandoned for the following reasons:

- a) each recorder available is limited to 14 channels,
- b) over 500' of one inch wide magnetic tape is required for each hour of recording for each 14 channel recorder at the required 1 3/4' per second tape speed,
- c) additional hardware (digital recorder or mini-computer) is required to place the data in digital form,
- d) high power requirements,
- e) calibration and calibration maintenance is difficult,
- f) cost comparable to complete digital recording system with many times the input channel capacity,
- g) the electronics for the input measuring devices or transducers have to be a separate package.

Finally, the mini-computer was not used because of the large initial expenditure inspite of the advantages. Also, the incorporation of a mini-computer into the tape conversion step would provide the maximum facility in analysing the data but was too expensive.

The conclusion was to record the data in digital form and to use a main computer facility for data reduction and analysis. In this way the complete instrumentation was designed around a single system with maxi-

mum reliability and minimum cost for each input channel. The main disadvantage in using the digital format is that once the sampling interval is selected, estimation of intermediate points leads to some doubts concerning the validity of this output. The initial selection, then, proves to be important.

The digital system used in this project was the Sea Data Corporation's incremental four-track digital cassette recorder, Model 610. The attractive features of the system are:

1. size (the recorder is 4.4" high by 3.9" x 3.7");
2. inexpensive (\$1200 with recorder and data stream electronics);
3. 11.5 m. bits per tape (standard cassette, 0.15" wide tape);
4. high speed (300 steps per second at 4 bits per step);
5. high density (800 steps per inch or 3200 bits/inch);
6. modular construction (free choice of number of input channels up to a maximum sample word size of 400 bits);
7. low power requirements (2 amp. hours from 9-15 volt source to record 300' tape over any time period);
8. only six moving parts;
9. all parts replaceable in the field without re-alignment;
10. transducer electronics can be incorporated into recorder design;
11. data capacity expandable in 11.5 m. bit blocks with only one transport and motor driven card required per block (\$700 per block);
12. full line of electronic cards available;
13. high accuracy (1 sample or less in 10,000 lost in field experience of tape conversion);
14. four hours of continuous sample data on 300' tape using 44 8-bit data channel, 12-bit clock and sampling twice a second.

The instrumentation package consists of an incremental digital cassette recorder; three printed circuit cards which control the recorder and data stream to the recorder and a clock card that generates the pulse, which control the data shifting and other time-oriented functions of the recorder. Associated with each pair of input channels are four single cards; one contains two-frequency counters and shift registers (adjustable from 4 to 16 bits), and the other three are used for voltage to frequency conversion, bridge amplification and bias adjustments. These last three cards and all remaining electronics were designed and built at the University of Washington with the idea of taking full advantage of the Sea Data recording system. Fig. 3 gives a schematic of the instrumentation and recording package layout.

Figure 3 indicates the operation of the System. Transducers provide various types of information and the first card depends on the class of measurement. In some cases, the input signal is passed in to a bridge and run through a signal conditioning card where the bias or off-set can be adjusted, the polarity reversed and a zero to ten amplification applied. Thus, amplification is employed in the field for scale factor or calibration adjustment. Where the bridge circuit is not used or where large amplifications are not required, this card is set up as the input to the transducers. In this circumstance, either a blank or a card with additional electronics, depending on the type of measurement being made, is inserted instead of the amplifier card.

MUT related to the instrument's function. Activation of the system is controlled by a selected sequence of logic levels. CONCERNING THE INSTRUMENTATION, it is approved to be discussed.

The circuitry is designed to have a low power consumption. The following attractive features are included:

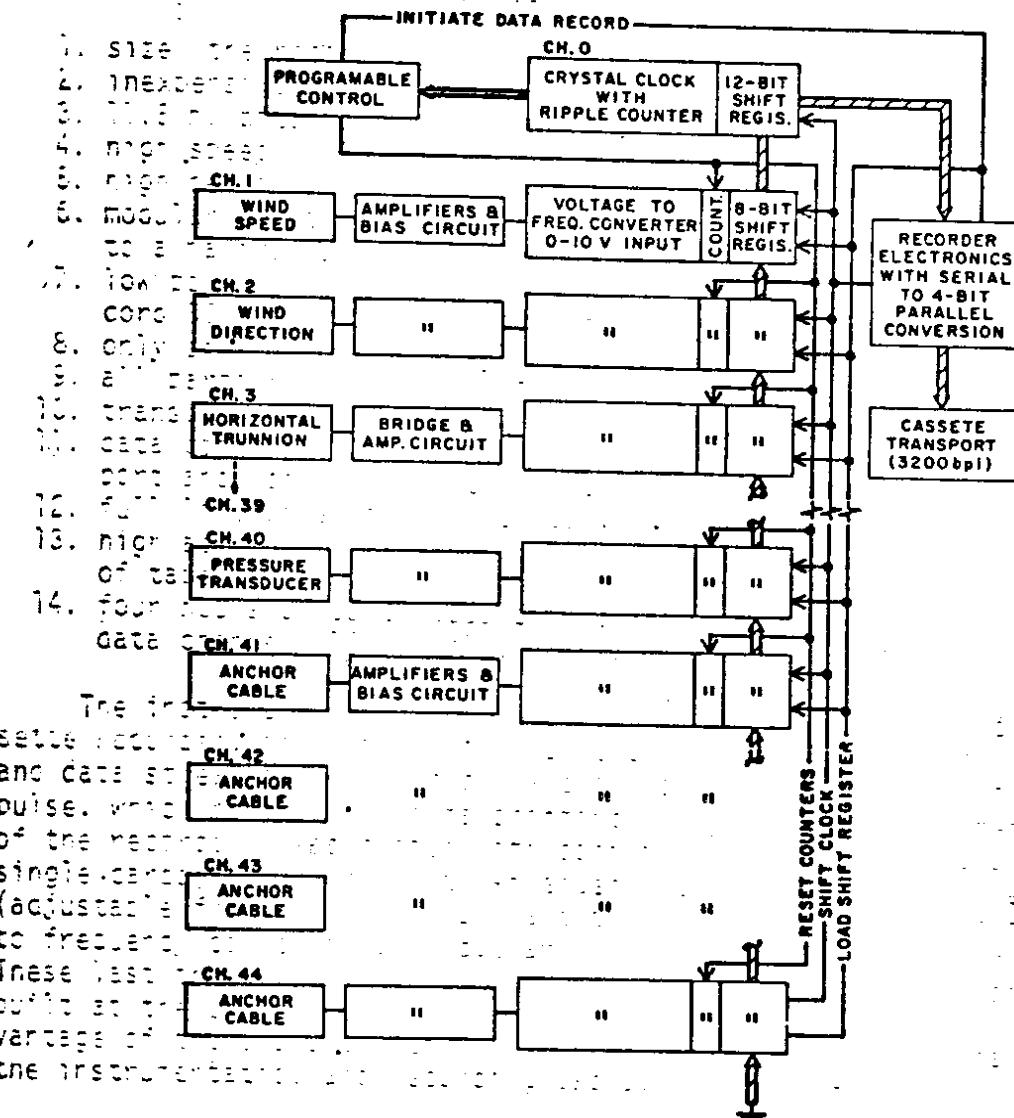


Figure 3. Instrumentation and Recording Package Layout. The system consists of a central control section and four channels. The central control section includes a programmable control unit, a crystal clock with ripple counter, and a 12-bit shift register. It receives input from various sensors: wind speed, wind direction, horizontal trunnion, pressure transducer, and anchor cable. The wind speed and wind direction inputs pass through amplifiers and bias circuits, followed by voltage-to-frequency converters (0-10 V input). These signals are then processed by 8-bit shift registers. The horizontal trunnion input passes through a bridge and amplifier circuit before being processed by an 8-bit shift register. The pressure transducer and anchor cable inputs pass through amplifiers and bias circuits before being processed by 8-bit shift registers. All 8-bit shift registers are connected to a recorder electronics unit with serial-to-4-bit parallel conversion. This unit is connected to a cassette transport (3200 bpi). A load shift register is also connected to the recorder electronics. A sequence of logic levels (initiate data record) controls the system. The diagram also includes sections for CH. 42, CH. 43, and CH. 44, which are likely test or calibration channels involving anchor cable inputs and associated logic.

On a scale of 1 to 100, the instrument's performance rating is excellent. The instrument's design is based on the following criteria:

The next step is to a voltage to frequency converter which operates a zero to ten volt input to provide a 0 to 10,000 hertz output. The next card makes a frequency count which is stored in a shift register. All input channel signals are stored at the same time in their respective registers and then upon a clock signal are shifted in a serial fashion onto the tape. This means that all the shift registers for each input channel are wired together and the data are shifted, 4 bits at a time, from one register to the next, directly onto the 4 tracks of the cassette tape. The tape records 300 steps per second at a density of 800, 4-bit steps per inch. This operation enables addition or subtraction of input channels to be readily made. The maximum number of channels is limited by the stepping speed, shift register size and the time necessary to count the input frequencies.

The recorder system designed for this project has 44 8-bit input channels and a 12-bit clock channel. The 8-bit shift registers have a maximum count of 256, including the zero bit, which gives a resolution of 1/256 times the maximum output allowed in the calibration adjustment for each transducer. When run over scale, the registers recycle. Each data word is made up of a 5 step gap, 2 step preamble (where both are used by the cassette reader in tape conversion), 91 step data block (2 steps per 8-bit register times 44 inputs with an additional 3 steps for the clock) and a single step longitudinal character check. This allows a total of 99 4-bit steps per data sample (the recorder has 4 tracks or 4 bits are recorded for each 3.3 MS step of the recorder) and is the maximum allowable word length. The channel sampling rate is twice every second and two sampling modes are possible. In the continuous mode, a total of 4 hours of continuous data can be recorded on one 300' cassette. In the sequence mode, $x = 17$ minutes. Then, 2047 events are recorded at each start and a cassette holds 14 records. The sampling rate and sequence time (x) can be changed by alterations of the power control card.

The recorder may be operated manually or automatically under automatic control. It is initiated by the wind indicator reading a definite wind speed (20 mph). The wind speed is sampled for one minute before recording actually starts. This initiation procedure can be performed by any of the input transducers. If the wind speed is maintained at over 20 mph in the one minute pre-sample, then 2047 events are recorded in 17 minutes. The system then turns off and repeats the process 43 minutes later until the wind speed drops below 20 mph. The adjustments for the triggering and record period are made on the wind speed monitoring card.

Instrumentation

The recorder system previously described has 44 channels of 8 bits each, together with a 12-bit clock channel. These 44 channels were used as follows:

- 2 - wind speed and direction (W1, W2)
- 2 - wave pressure transducers (P1, P2)
- 4 - anchor cables (A1-A4)
- 18 - horizontal trunnions (1HL1-4HL1, 1HT1-4HT1, 3 and 4 HL2 3 and 4 HT2, 3HRL1-3HRL3, 3HRT1-3HRT3)

12 - vertical trunnion anchorage rods	(1V1, 1V2, 2V1, 2V2, 3V1-3V4, 4V1-4V4)
3 - center locks	(C1, C2, C3)
1 - end lock	(L1)
2 - support beams of vertical trunnions	(S1, S2)

Figure 4 shows this arrangement with identification through the parenthetical symbols. The first eight channels listed record input data of wind velocity and wave force. The remainder measure strains on critical points of the drawspan mechanism.

The anemometers used (W1, W2) had a range of zero to 80 mph and were made by Weather Measure Corporation Model W121-5D. The wave pressure transducers (P1, P2) were from Viatron, Model PTB102G with a pressure range of zero to 15 psi. The final input was to determine anchor cable displacements (A1, A2, A3, A4) over a 20" gage. Figure 5 shows the arrangement where the change in gage length is recorded as a signal from the L.V.D.T.

The various strain gages were from Micro-Measurements Division of Vishay Intertechnology, Inc. The horizontal trunnions and end locks were serviced by CEA-06-125UR-350 rosettes; the tension on the center locks and anchorages was measured by EA-06-250TB-350 gages. Figure 6 shows a typical set-up for rosettes at a horizontal trunnion. The gages were located from the results of finite element analysis whereby positions with very small strain gradients could be ascertained.

Housing for the recording system was in an instrument shack located by the central tower on the southwest side of the drawspan. (Fig. 4)

Data Accumulation

The recording process produced digital data which were suited for immediate computer analysis. In this way, $f_i(k)$ in equation (16) could be obtained. Visual records were of interest and strip chart plots were assembled. Typical records are shown in Fig. 7. Hence, Fig. 7(a) gives the strain:time picture in the vertical trunnion anchors and 7(b) in the horizontal trunnions.

Discussion

The work described concerns the early stages of the maintenance study program for the Evergreen Point Bridge. The theoretical argument leads to a description of T_f , the life span of the element. The use of Miner's hypothesis allowed a simplification in the analysis. However, should another hypothesis show better agreement with results, then it can be included in much the same way. Such an hypothesis will be a function of n_i and N_i and hence, the novel theory leading to equation (14) will always be applicable for the n_i part. The prototype results N_i have to be generated in laboratory tests. In this work, it is proposed to determine the correlation between the structural and material values of N_i and hence, provide a correction to the material test data.

The determination of n_i was based on one season of strain reading.

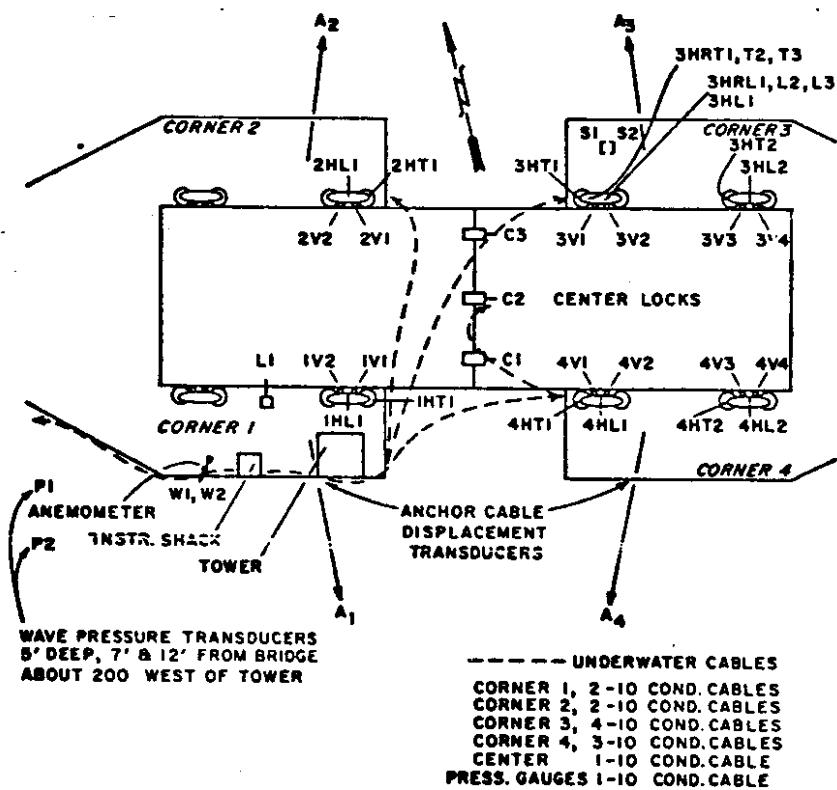


FIGURE 4 INSTRUMENTATION LAYOUT

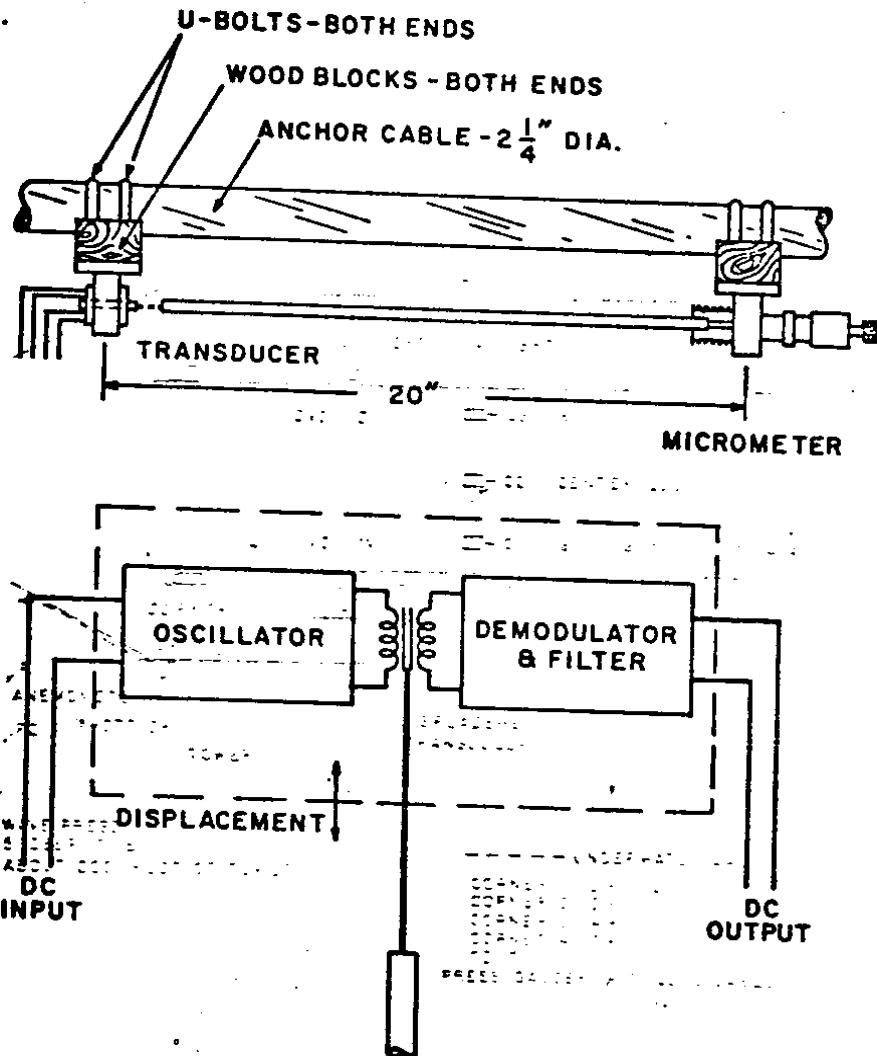


FIGURE 5 ANCHOR CABLE DISPLACEMENT TRANSDUCER

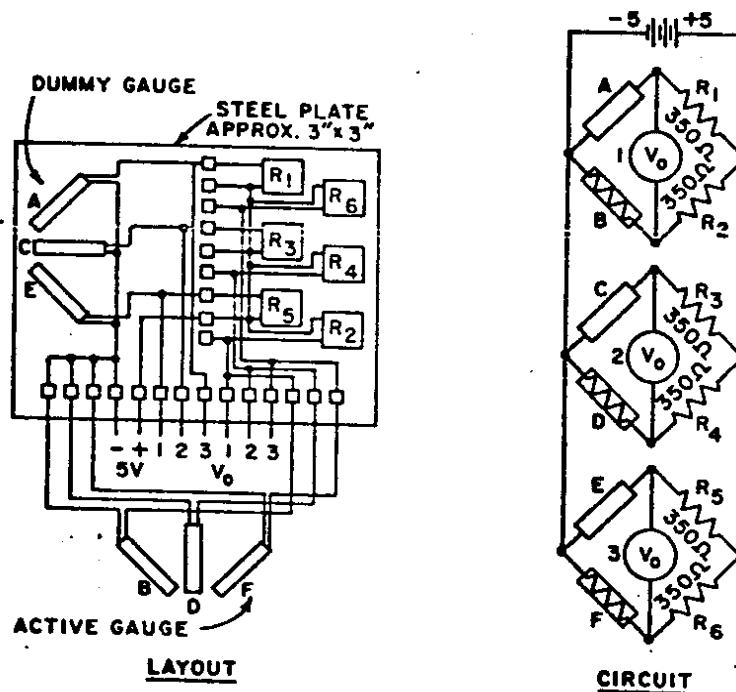
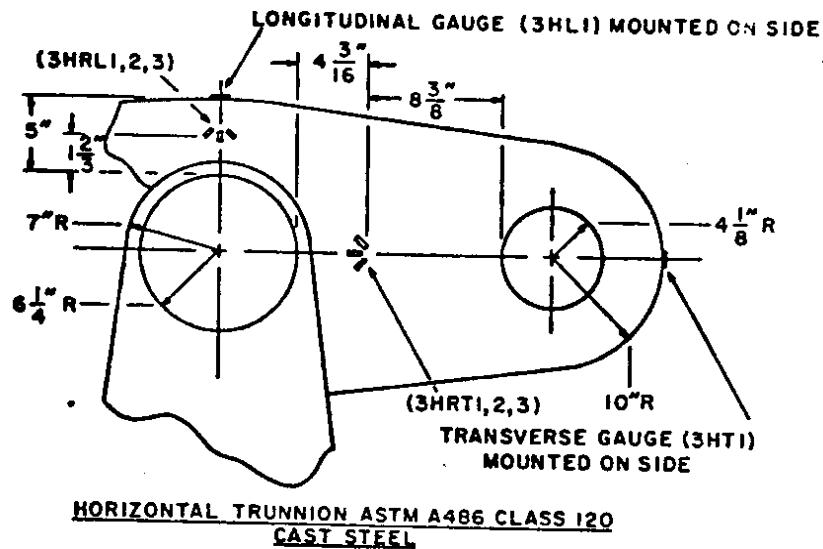


FIGURE 6 HORIZONTAL TRUNNION ROSETTE GAUGES

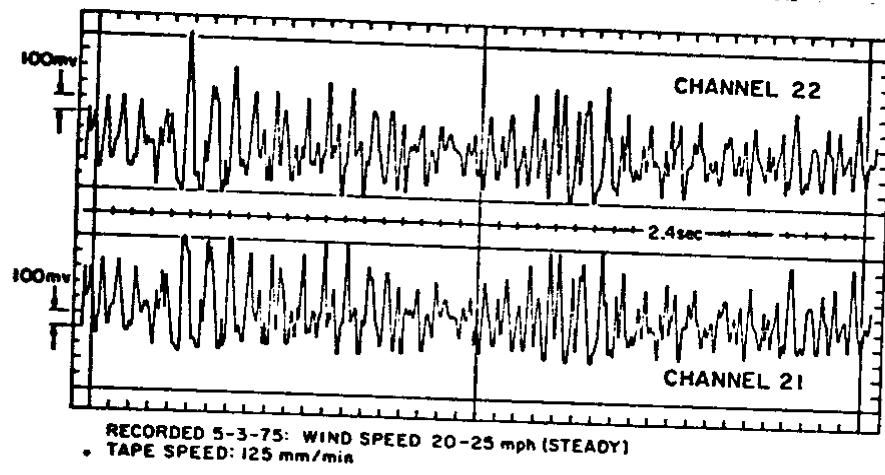


FIGURE 7(a) STRIP CHART OF STRAINS
(VERTICAL TRUNNION ANCHORS)

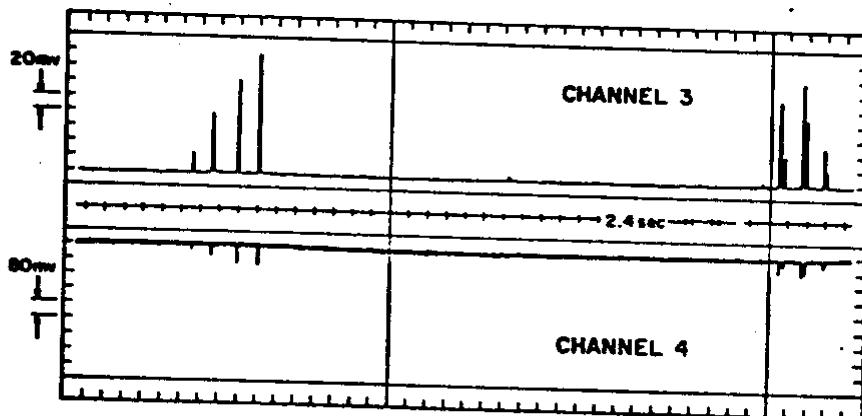


FIGURE 7(b) STRIP CHART OF STRAINS
(VERTICAL TRUNNION ANCHORS)

It is realised that this can be generalized to fit into many seasons. Available are ten-year readings of wind velocity at the Evergreen Point Bridge site. This allows a probability distribution of wind speeds to be determined and the one season results take their place in that distribution. A study of the wind means versus standard deviation of strains is expected to provide a relationship between wind and strain so that long-term strain results can be predicted from the wind distribution. Thus, the range of $f_j(k)$ in (14) can be extended and T_f modified in equation (16).

The instrumentation and recording system described works efficiently. As data are accumulated, it becomes apparent that certain channels only provide confirmatory readings. For instance, the two gages on each vertical trunnion anchor rods need not be recorded separately but may be averaged before recording without loss of accuracy. This release of a channel will allow new strains to be measured and an extension of the wave pressure measurements to be made.

Although all of the instrumentation works well, one set of results causes concern. A comparison between the strain-time diagrams of Fig. 7(a) and 7(b) show very different forms. In Fig. 7(a), the signals from the vertical trunnion anchors have a continuous form well suited for analysis. All other results are of this form except those from the horizontal trunnion. Here, as in Fig. 7(b), strain spikes occur and the instrumentation and recording system is not suited to this intermittent signalling caused by wave battering. The 2 hertz sampling conceals the peak values of the intermittent recordings. Alternative recording methods have been introduced which holds the maximum value in each 1/2 second period.

Conclusion

The background for determining a maintenance program for the draw-span part of the floating Evergreen Point Bridge and the design of the system and the intentions with respect to the work have been described.

Acknowledgements

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Reference

1. Lin, Y. K., Probabalistic Theory of Structural Dynamics, McGraw-Hill, 1967, pp. 303 and 312.

APPENDIX B

PROGRAMS DEVELOPED IN 1975-76

EGFBP - Initial tape conversion

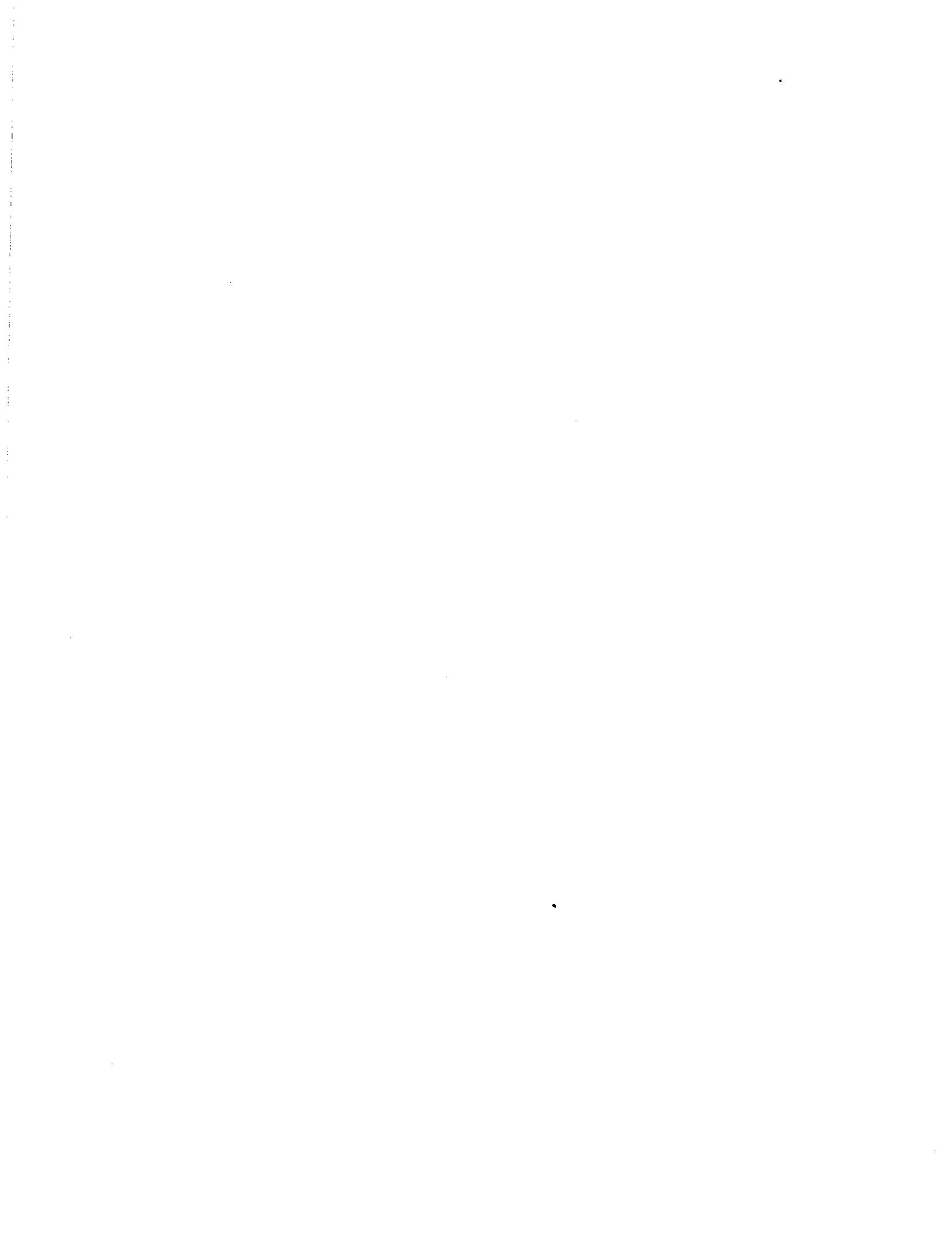
Computes, lists and punches minimum, maximum, mean and standard deviation.

Data stored on tape in original sampled form.

SDTPR - Data re-arranged, improper data removed.

DMFFT - Fast Fourier Transform coefficient computation.

Location of major peaks in raw spectra and punching of values.



```

PROGRAM FCBFBFT,INPUT,PUNCH,TAPES-INPUT,TAPES-OUTPUT,
1TAPE7-PUNCH,TAPE1,TAPE2,TAPE3,TAPE15)
PROGRAM TO READ BINARY DATA LOGGED CHAPACTERS FROM 7-TRACK
C-----TAPE (TAPE1,SS6 API,STRANGER) GENERATED USING THE KIND-FILED
C-----HILL 4-TRACK CONVERTER.

C-----COMPUTES AND WRITES ON TAPE(TAPE1,ECO,BP1,BINRY...SCPE)
C-----THE WPL SAMPLE C RESPONSE TO A SINGLE SAMPLE OF ALL THE INPUT
C-----CHANNELS, WHILE A RECORD CONSISTS OF THE GROUP OF SAMPLES DETERMINED
C-----EACH TIME THE PECON IS TURNED ON AND OFF.

C*****VARIABLES TO BE READ IN ****
C-----NCMHPA10 - OUTPUT IDENTIFICATION
C-----NY - A ARRAY CONTAINING NUMBER OF 4-BIT CASSETTE CHARACTERS PER
C-----RECORDED VALUE (INPUT)
C-----NVAL - THE NUMBER OF INPUT CHANNELS PER CASSETTE SAMPLE(OR
C-----NPFCTOT - NUMBER OF CASSETTE RECORDS TO EACH TAPE RECORD (INPUT).
C-----NDATA - NUMBER OF CASSETTE SAMPLES/PFCPOD
C-----NSKIP - NUMBER OF 4-TRACK TAPE SAMPLES TO BE SKIPPED.
C-----NFSKIP - TS + NUMBER OF 7-TRACK TAPE FILES TO BE SKIPPED.
C-----MISTY - 0 NC PRINTING OF RAW DATA, *1 PRINTS RAW DATA
C-----*****VARIABLES SET IN DATA STATEMENTS ****
C-----PART1 - THIS VARIABLE IS USED IN THE SYSTEM S.R. FRAIT
C-----PART2 - WHICH FILES THE PROGRAM TO RECOVER
C-----FROM PARITY ERRORS.
C-----NW - WORD POSITION IN BUFFER ARRAY BUF(4C).
C-----NUCKDS - LENGTH(1) - THE NUMBER OF WORDS TRANSMITTED TO THE
C-----BUFFER ARRAY PUFF.
C-----NC - CHARACTER POSITION IN BUFFER ARRAY POSITION NW
C-----NREC - IS USED TO COUNT THE NUMBER OF CASSETTE RECORDS IN
C-----EACH 7-TRACK FILE. MUST INITIALLY BE SET TO A
C-----NUMBER...GT. NPFCT1
C*****APPAYS *****

C-----NX(NVAL) - DEFINED ABOVE.
C-----NZ(NVAL) - DATA ARRAY CONTAINING THE ORIGINAL BINARY (INTEGER)
C-----VALUES RECORDED ON THE CASSETTE TAPE.
C-----ZNVAL) - DATA ARRAY USE TO STORE THE CONVERTED DATA PTS.

C-----BUF(4C) - ARRAY USED BY BUFFF IN FOP READING THE 7-TRACK FILES
C-----*****MISC. VARTABLES ****
C-----NTYPE - PARAMETER DEFINING THE TYPE OF DATA RETURNED IN NZ( )
C-----APPAY AND NCHECK (COLPUT)
C-----1, ONE WORD CASSETTE PFCPOD RETURNED (NO FPODS)
C-----2, ONE WORD CASSETTE RECORD TS RETURNECLCHECK, PAPITY
C-----ERROF WORD(NREC1)
C-----3, EOF ENCOUNTERED, NO DATA RETURNED.

C-----NCHECK - PARITY/ERROF INTEGER WORD(4BITS) (CUTPUT)
C-----CO FLAG DIT IN PUFF(4) SIGNIFICANT
C-----01 EXCESS DATA ON CASSETTE PFCPOD
C-----02 LOW SIGNAL LEVEL (PFF MUL)
C-----04 CASSETTE PARITY ERROR
C-----10 CASSETTE PARITY FAPP
C-----76 7-TRACK PFCPOD DOES NOT CONTAIN EXPECTED
C-----NUMBER OF CHARACTERS
C-----77 LAST CASSETTE RECORD IN 7-TRACK TAPE PFCPOD
C-----DLES NOT HAVE FLAG DT
C-----7677 ARE ADDITIONAL TO THOSE PROVIDED BY THE TAPE

```

C * READER. COMBINATIONS OF THE FIRST 5 ERRCR.
 C * READERS. MESSAGES CAN OCCUR.

```

C   TAPE1 = INPUT TAPE
C   TAPE2 = STOPF ORIGINAL DATA,I,ZN,NCHECK - RFNUNH BEFORE EACH REC
C   TAPE3 = OUTPUT TAPE
C   TAPE4 = STORE STATISTICS FOR ALL RECORDS
C   NCH = NO EC, RDATA, NBAD, NDIV, RANCE, TINT, TIDWAR, XMAX, XMIN,XMEAN, STOREY
C   COMMON/DUNE/NW, NWPOS, NC,NRFC,NAC,IRR,TFIRST,ITOT,NDATA,NVAL,
JNRFCTOT,NTYPE,NCHECK,NCOM(1),NX(50),NZ(50),NW(100),
2BUF(40),ZN(50),AX(45),AM(45),AR(45),AS(45),NCCHAN(45),KHAN(45)
3   COMMENT A(1)
3   DATA PAPI /TPUF* /
DATA NW,NWPOS,NC/41,40,0/
3   LOGICAL PAPI
3   WRITE(6,55)
7   99 FORMAT(*FW FOUNT NEW PIAREN PLEASE*)
7   READIS, FCC) (INCOM(I),I=1, R)
15   PEADIS,6C2) NCHAN
23   602 FORMAJ(16A5)
23   PEADIS,6C1) NVAL,NRECTOT
33   PRINT 100,(INCOM(I),I=1,8),NVAL,NFFECTOT
45   NPEC = NRECTOT + 3
47   NREC = 1
50   NY(1) = 2
51   DC1(1) = 2,45
53   1 NY(1) = 2
57   DO F I = 1,NVAL
60   8 KHAN(I) = I-1
64   REWIND 3
66   957 PF 2015,6C4) NDATA,NFSKIP,NFSKIP,MLIST
102   DO 4 I = 1,1 CO
164   4 NK(I) = C
107   LFIRST = 0
110   DC 26,1 = 1,50
112   NZ(I) = 0
113   29 ZN(I) = 0
117   RFWIND 2
121   IF(EECE,5)995,998
124   998 PRINT 326,MK FC
132   PRINT 125, PDATA,NFSKIP,NFSKIP
144   NPEC = MPFC + 1
146   CALL ERAPIT(1, PAPI)

C *****Skip NFSKIP FILES ****
C
150   NPAR = 0
151   TFINNSKIP,EC,0)GO TO 334
152   DC 335 I = 1,NFSKIP
154   347 RUFFP IN (1,1) (PUF(1),RUF(40))
151   391 CALL SFCIND(GPR)
163   IR(FINT,11,394,397,336,330
170   334 NPAR = NPAR + 1
172   347 (PUF,1,1)GO TO 347
174   STEP
176   347 CONTINUE

```

C ***** SKIP CASSETTE RECORDS.

C

201 334 IF(NSKIP.EQ.0)GOTO 333.

202 D1 910 I = 1,NSKIP

204 510 CALL TAPED

210 333 REWIND 15

212 NBAC = 0

213 D1 2 I = 1,45

215 AY(I) = AR(I) * AS(I) = 0.

221 2 AP(I) = 5000.

224 DC 31 I = 1,NDATA

226 INCK = 1

226 CALL TAPC

227 DC 2 K = 1,NVAL

231 Z(N(K)) = NZ(H)

233 IF(INTYPE.NE.1)GOTO 3

235 AR(K) = AMIN1(Z(N(K)),AM(K))

242 AX(K) = APAX1(Z(N(K)),AX(K))

246 AB(K) = AR(K) + Z(N(K))

250 AS(N) = AS(K) + Z(N(K))*ZN(K)

254 3 CONTINUE

257 GC 1N(4C,41,A30),NTYFF

266 4C WRITE(2) T,(Z(N(M)),M=1,NVAL),NCHECK

303 GU TC 31

304 41 WRITE(1),I,(Z(N(M)),M=1,NVAL),NCHECK

321 NBAD = READ(1)

323 PW(NBAD) = I

325 WRITE(2) I,(Z(N(M)),M=1,NVAL),NCHECK

342 31 CONTINUE

345 XNUM = NDATA - NBAD

347 M7 K = 1,NVAL

350 AS(K) = S0PT((AS(IK)/(XNUM-1.))-(1.0/XNUM*(XNUM-1.))*(AB(K)**2)))

365 7 AR(K) = AR(K)/XNUM

372 POINT 115,AX(1),AP(1),AR(1)

C ***** LIST ERR(CASSETTE RECORDS. *****

403 830 IF(INTYPE.GE.3.AND.I.LE.1)STOP

416 PRINT 108

422 PRINT 108,1,NBAD

432 IF(NBAD.FO.CIGC TC 10

433 RFWND 15

435 PRINT 11C

441 DC G J = 1,NBAD

443 PEAC(19) I,(Z(N(K)),M=1,NVAL),NCHECK

450 PRINT 106,NCUCK,I,(ZN(M),M=1,2C)

472 PRINT 306,(Z(N(M)),M=2,40)

507 9 PRINT 307,(Z(N(M)),M=41,NVAL)

516 10 TI = 1.13*AP(1)

520 PRINT 112,NCCh,NDATA,TI

532 J1 = 2

533 J2 = 1,

534 DC E L = 1,4

536 PPINT 111,(WHAN(K),K=J1,J2)

550 PRINT 112,(INCHAN(K),K=J1,J2)

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```
27X,15//1
1122      126 FORMAT(2W1,5X*RECORD NO. *15//1)
1122      306 FORMAT(11X,2UF6.0)
1122      307 FORMAT(12X,2OF6.0)
1122      600 FORMAT(PA10)
1122      601 FORMAT(215)
1122      605 FORMAT(415)
1122      STOP
1124      END
```

SUBROUTINE TAPRD

```

C   SUBROUTINE TO READ BINARY DATA FROM A 7-TRACK TAPE, TAPE1,
C   WHICH WAS GENERATED BY PG1 4-TRACK TO 7-TRACK CONVENTER.
C   7-TRACK TAPE RECORDS, 400 CHARACTERS MAXIMUM, ARE BUFFERED IN
C   AS NEEDED. EACH 7-TRACK TAPE RECORD MUST CONTAIN A WHOLE NUMBER
C   OF 4-TRACK CASSETTE RECORDS. EACH RECORD MUST BE TERMINATED BY
C   1 PAPITY CHARACTER AND 1 PARITY/EOPP CHARACTER. (OTHERWISE
C   THE LAST CASSETTE RECORD IS RETURNED AS AN EPRUR RECORD).
C
2   COMMCH(CNE/IN,NWOPNS,NC,NPFC,N940,IRP,IFIPST,IICI,NDATA,NVAL,
    INRECT,ATYPE,NCHECK,NCOM(E),NX(50),NZ(50),NW(NCC),
    2BU(40),ZN(50),AX(45),AM(45),AP(45),AS(45),NCHAP(45),KHAN(45)
    ,NPAP=0)
C
C   INITIALIZE DATA ARRAYS TO ZERO.
C
3   ON P5G,T=1,NVAL
5   850  A2(I)=0
11   NREC,NRFC+1,$,NCHECK=0
C
C   READ NEW TAPE-RECORD, IF NECESSARY.
C
13   JE (NREC,GT,NPECOT), S97,99t
20   997  BUFFER IN (J,1) (AUF(1),RUF(40))
25   E90  CALL SEC((D(T)
27   IF (OUNT,T,1) E00,E10,E20,E30
34   E30  WRITE (6,101)
40   NDAK=NPAP+1
42   IF (NPAP,GE,10),E10,S97
47   E10  WRITE (6,102)
53   STOP
55   E20  WRITE (6,100)
61   ATYPE=3,$,NPFC=NPPECT
64   RETURN
64   E10  NWCRDS=LNGTH(11)
67   NW=NPFC-1,$,NC=0
C
C   UNPAC 1 CASSETTE RECORD.
C
71   S98  DO 900 I=1,*VAL
73   J(J,NY(I))
75   NN$10,J=1,JJ
76   NC=NC+1,$,TF (NC,LE,10) GU TN 92C
102   NC=1,$,NN=NN+1
104   IF (NW,GT,NWUDS) GO TO 905
107   920  J1=(NC-1)*6+2,$,I2=J1+3
115   J1=59-(J1-J+1)*4+1,$,ICHECK=J1-2
123   CALL UNPAC (NUF(NW),IC,NCM,ICHCK,NCHECK)
126   CALL PAC TWO (L1,I2,AUF(NW),J1,N?((I))
133   IF (I CHECK,NC,O) GO TO 900
134   910  CONTINUE
137   430  CONTINUE

```


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```
10      SUBROUTINE PACTWO (I,J,A,M,B)
       M1=M+J-1
12      CALL UNPAC(A,I,J,D)
15      CALL PAC(B,M,M1,D)
23      PETLPN
24      END
```

EGFOPEN //

ENGLISH SILENT INPUT TEFIT TAPE ON UNITRIT TAPE, 7 INCHES
PRODUCED IN MEXICO FINAL TAPE CONVERSION ON FGERD TAPES.

```

2 SUBROUTINE STAT
3 COMMON/CNF/NMK(100),A4(45),AX(45),PAR(45),7N(45),IFIRST,NDATA,NLV,
4 IAVE,UPD,A(45)
5 DIMENSION A(11,21,65)
6 IFIRST = 1
7 ICH = N = 1
8 N=IND 2
9
10 N = 4 = 14
11 RETC(2) = IND,TION,NLV,NPAN,NDATA,(NK(1K),K=1,NAUD),AX,AM,AR,AC
12
13 IFIRST(2) = 1+NDAT
14 KRD(2) = (7N(NH),M=1,NDAT)
15 KRD(1) = 7N(NR)
16
17 J = TI
18
19 DO 2 J = 1,NDAT
20 KRD(2) = (7N(NH),M=1,NDAT)
21 KRD(1) = 7N(NR)
22
23 A(2,J) = 7N(N+1)
24 A(3,J) = 7N(N+2)
25 A(4,J) = 7N(N+3)
26 A(5,J) = 7N(N+4)
27 A(6,J) = 7N(N+5)
28 A(7,J) = 7N(N+6)
29 A(8,J) = 7N(N+7)
30 A(9,J) = 7N(N+8)
31 A(10,J) = 7N(N+9)
32 A(11,J) = 7N(N+10)
33
34 IFIRST(1) = NDAT,CFIT(A)
35 C(0,6,1) = 1/12
36 WRITE(3) TCM,IT,NDATA,(A(I,J),J=1,NDATA)
37
38 ICH = N + 1
39 N = N + 1
40 POINT 100,MPEC,IT,NDATA,NAD
41
42 100 POINT 101,MPEC,IT,NDATA,NAD
43
44 END

```

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PAGE ONE

```

SUBROUTINE EDIT(4)
C COLUMNS/ROWS MAX 10.4*(45)*MAX(45)*MAX(45)*MAX(45)*MAX(45)
C NCOLNPA0 45*45
C DVERSION 41112048
C
C      NO. OF RAD POINTS AT THE BEGINNING OF A FILE.
C      THE PROGRAMMATICALLY INTERPOLATES ACCORDING ALL RAD DATA POINTS
C      THAT ARE INDICATED AS SUCH BY THE TYPE READER.
C
C      DATA ID = 111.
C
C      RIGHT = 0
C
C      14 = 4
C      IF (NK(1)) .NE. 1100 TO 2
C
C      11   1  11 = 11
C      13   1F(114,67,1)D0ET,JRN
C
C      15   JFNK(111)*FC(1160) TO 1
C      23   XCH = 2(1,1)
C
C      24   GO TO 1 - 1011
C
C      26   4 AT(11) = XCH
C
C      35   1E15ST = 11 - 1
C
C      36   3 12 = 11
C
C      40   5 11 = 11+1
C      42   1F(11,67,NDA14*02*12*67,1W) RETURN
C
C      53   7 1F(NK(112)*NE,1160) TO 5
C
C      55   1F(11,NE,NDA14)G1 Y1 C
C
C      57   D1(1,1) = 4(1)-4,(1-1)
C
C      65   G(11,13
C
C      66   9 1704 = 6
C
C      67   15 = 11
C
C      71   14 = 12
C
C      72   10 11 = 11
C
C      74   12 11 = 12+1
C
C      75   106 = 1160 + 1
C
C      76   1F(1170,61,20,35,12*67,1W) RETURN
C
C      101   1F(110,61,20,35,12*67,1W) RETURN
C
C      111   1FNK(112)*NE,NDA14(H,(1)) = A(14,11-1)
C
C      123   1F(11K(112)*B(2)*0,0*NE(112)*G(116,12
C
C      134   1FNK(112)*FC(2)*G(116,12
C
C      135   1FNK(113)*G(116,11
C
C      137   12 YSG = 1-13+
C
C      142   30X = (2(14,13-1)-A(14,11-1))/X50
C
C      152   15 = 11-1
C
C      154   00 = 11-1 = 13,15
C
C      156   11 2(1H,1) = A(14,11-1) - XDX
C
C      171   9 115
C
C      173   14 CONTINUE
C
C      174   13 RETURN
C
C      END

```

```

PROGRAM DMFFI(INPUT,OUTPUT,PUNCH,TAPES=INPUT,TAPE6=OUTPUT,TAPE7=PU
  INCH,TAPE4,TAPE2)
C
C REQUEST TAPE,VIN=VIN30,E,INPUT)
C SKIP(TAPE,1,17)
C CLRBYT(TAPE),JAPZEL)
C UNLOAD(TAPE)
C STMIND(TAPE1)
C FLTKRN.
C LGO.
C KEWIND(TAPE2)
C REQUEST(TAP,VSN=F13D,N,QUIPUT)
C LABEL(TAP,WAL,CHRISTENSEN)
C COPY(TAPE2,TAP)
C
C PROGRAM TO EDIT DATA, COMPUTE AND LIST STATISTICS, APPLY
C DATA WINDOW AND COMPUTE AND STORE FFT COEF. ON TAPE2 AND TO
C LOCATE AND LIST PEAK VALUES AND LOCATIONS IN SPECTRUM.
C COMMON(BLK,NB,NK,N1,N2,IFO,IIM,IWAI,I10),KHAN(45),NCHAN(45),
C *PIYAX(45),AM(55),AB(45),AS(45),RS(45),PK(350),LK(350),
C COMMON A(1)
C COMPLEX AD.
C
C NCHAN = ARRAY OF CHANNEL NAMES.
C IRY NUMBER OF COEF. SET TO ZERO AT BEGINNING OF SPECTRA.
C IIM = NUMBER OF DIFFERENT SUMS IN BLKSM.
C IWAI = ARRAY OF SUMS TO BE APPLIED.
C
C
C 3 READ 2UC,NCHAN
C 1 200 FURKHA(16A$)
C 11 RCAU 261,IFO,IIM,IWAI,ICL
C 25 20L FORMAT(212,412,1,1)
C 25 AF(1L,EG,C) ICL=45
C 27 PRINT 160,IFO,IIM,IWA
C 41 100 FURKHA(1H1,10X+SUMMARY OF STATISTICAL DATA FOR EGFBP*/15X*IFO*2X*
C 41 11TH*2#IWA*13H*1215/L)
C 44 DU 20 1 = 1-5
C 45 20 KHAN(1) = 1-1
C 51 DC B 1 = 1,4100
C 52 0 ALL) = 0.0
C 55 DE = 1/1024.
C 57 DC 1 H = 2,1,CL
C 60 READ(1) ICH,1,NOATA,(A(J),J=1,NDATA)
C 103 IFLH.LE.31GU TO 1
C 103 . DU 10 K = NOATA,4926
C 105 10 A(K) = 0.0
C 110 NY = NOATA
C 112 PKINT 201,JCH,NY
C 121 101 FCMPAT 1X*CH,*120 MAX,*8X*MIN,*8X*MEAN*7X*STDEV*10X,110
C 121 CALL PRVAL
C 122 ITSS(1H1).LG.C,OIGU 10..12
C 124 NI = 2040-NUATA
C 126 JPRINT,LL,OIGU 10..11
C 127 DU 2 J = NOATA,4948

```

```

131      2 A(J) = AB(IH)
135      11 NY = 2048
135      CALL MEVAL
137      DC 21 J = 1,3
141      21 A(J) = AB(IH)
145      HU = NDATA-3
147      DU 22 J = NU,NDATA
150      22 A(J) = AB(IH)
155      CALL MEVAL
156      DC / J = 1,2048
160      7 A(J) = A(J) - AR(IH)
165      CALL DATWIN
166      CALL FEIT(1,0,ALLD)
171      NI = NY/2
173      DU 3 J = 1,NI
174      3 A(NI+J) = A(NY+J)
202      IF(1F0,10,0)GO TO 12
203      DU 5 J = 1,IFO
204      2 A(J) = ALP+NI, 0,0
212      12 WRITE(2)(A(I),I=1,2048)
217      1F(AS(IH),EQ,0,0)GO IN 1
221      DL 4 J = 1,NI
222      XU = CHPLX(A(J),A(J+NI))
227      4 A(J) = (CAOS(XU)*#2)*(U/FLOAT(NY))
247      DU 6 J = 1,ITH
250      NB = IWA(J)
252      1F(NB,ST,1)13,14
257      13 NI = 1065
260      N2 = LU24 + (2048/(NB+NB))
265      CALL BLNSH
265      CALL BLNSH
267      14 NI = 1
270      N2 = LU4
271      15 CALL VKLUC
272      6 CALL ARASP
276      PUNCH 14,U,IK
303      { PUNCH 14,U,IK(X),K=1,NK)
315      PUNCH 14,U,(LK(K),K=1,NK)
331      1 CONTINUE
334      ENFILE 2
335      READ 202,NCOM
344      202 FFORMAT(14)
344      PPRINT 130,NCOM
352      130 FFORMAT(1H1//11)X*SUMMARY OF STATISTICAL DATA FOR #A10/1)
352      J1= 2
353      J2 = 12
354      DC 31 IT = 14
356      PRINT 431,(KHAN(K),K=J1,J2)
370      PRINT 132,(INCHAN(K),K=J1,J2)
403      PRINT 133,(AX(K),K=J1,J2)
416      PRINT 134,(AH(K),K=J1,J2)
431      PRINT 135,(AB(K),K=J1,J2)
444      PRINT 136,(AS(K),K=J1,J2)
457      PRINT 137,(ASAK(K),K=J1,J2)
472      J1 = J1+1
474      34 J2 = J2+1

```

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```
477 131 FORMAT( EX*, CH.*$11(19,1X) )  
477 132 FURMAT( QA*NAME*11$X,A5,1X) /  
477 133 FURMAT( QA*PAX*11F10.0)  
477 134 FURMAT( QA*MIN*11F10.0)  
477 135 FURMAT( 9X*MEAN*14F10.0)  
477 136 FURMAT( 9A*IDEV*FY.2,10F10.2 )  
477 137 FURMAT( 9A*IDEV*FY.2,10E10.2111 )  
477 140 FURMAT( 15 )  
477 141 FURMAT( 10,9 )  
477 142 FURMAT( 2014 )  
477 STOP  
501 FND
```

```
      SUBROUTINE MCVAL
COMMON/BLK/NY,NR,NK,NL,N2,IF,O,ITM,LM,IA(LU),KHAN(55),NCNAN(45),
*UPIYAX(45),AM(45),AB(45),AS(45),ASA(45),PK(350),LK(350)
COMMON A(1)
2      AS(IH) = A(1)*A(1)
3      AX(IH) = AM(IH) * AB(IH) = A(1)
4      DO 1 J = 2,NY
5      AX(IH) = AMA(IJ)*A(JH),AX(IH)
6      AN(IH) = 2*MIN1(A(IH),AM(IH))
7      AB(IH) = APIH + A(IJ)
8      1   AS(IH) = A(IJ)A(J) + AS(IH)
9      XN = NY
10     AS(IH) = SCRT((AS(IH)/(XN-1.)) - ((1./XN*(XN-1.))* (AB(IH)**2)))
11     AB(IH) = AB(IH)/XN
12     PRINT 100,AX(IH),AM(IH),AB(IH),AS(IH)
13 100 FORMAT(4E12.4)
14     RETURN
15     END
```

```
2      SUBROUTINE DATWIN
       LUNHON/LK(1/NY,NBLNK,N),N2,IE0,KIMELH,LNA(1,0),KHANI(45),NCHAN(45),
       *U,PIV,4X(45),AM(45),AB(45),AS(45),ASA(45),PK(350),LK(350)
       CUMON,A(1)
2      U = 0.0
3      NCUS = NY/10
6      CN3 = NCOS
7      XN = 0.0
10     DO 1 I = 1, NY
12     NX = 1.0
14     IF(I.LE.NCOS)WX = (1.0*(1.-CUS(PIY*XN/CNS)))
25     XN = NY-I
30     IF(I.GT.NY-NCOS)WX = (1.5*(1.-COS(PIY*XN/CNS)))
41     A(I) = WX*A(I)
        XN = XN+1
44
46     WA = 1.0*WX
47     1 U = U+WX
53     U = FLOAT(NY)/U
55     RETURN
55     END
```

```

]-----[

6      SUBROUTINE FFT1(SIGN,N,JX)
6      COMMON/BLK*/NB,NK,N1,N2,IFQ,ITM,LM,IVAL10,KHAN(45),NCHAN(45),
*UPIYAA(45),AM(45),AB(45),AS(45),PK(350),LK(350)
6      COMMON A(1)
C      NMAX=LARGEST VALUE OF N TO BE PROCESSED
C      NNUMBER OF DIMENSION DINMAX
C      FOR EXAMPLE IF NMAX=25 THEN
C      DIMENSION A(2**N)
6      DIMENSION H(16)
6      COMPLEX W,N,J,CP
6      UX*2**N
11     DO 1 J=1,N
12     1 M(J)=2**((N-1)
21     DO 4 L=1,N
22     NBLOCK=2**((L-1)
27     LBLOCK=LX/NBLOCK
12     LBLOCK=LBLOCK/2
12     LBLOCK=LBLOCK/2
33     K=U
34     U=LBLOCK=1,NBLOCK
35     FK=X
37     FLBLLX
40     V=SIGN*6.2831653*PK/FLX
44     W=Cmplx(CUSIV),SIN(VI)
44     ISTART=BLOCK*(LBLOCK-1)
52     ISTART=BLOCK*(LBLOCK-1)
55     DU 2 L=1,LBHALF
60     J=START+1
62     JH=J+LBHALF
64     W = K*Cmplx((JH+JX)*A(JH+(LX+JX))
64     A(JH+JX) = A(J+JX)-REAL(O)
77     A(JH+LX+JX) = A(J+LX+JX)-AIMAG(O)
103    A(J+JX) = A(J+JX)*KFA(L)
115    A(J+LX+JX) = A(J+LX+JX)+AIMAG(O)
120    A(J+LX+JX) = A(J+LX+JX)+AIMAG(O)
125    2 CONTINUE
127    2 LX=2,N
131    1 L=1
131    1 IF ((K,L)*M(I)) GO TO 4
131    3 K=N-M(I)
134    3 K=N-M(I)
137    4 K=N+M(I)
146    K=O
146    DO 7 J=1,LX
150    IF ((K,L)*J) GOTO 5
152    HULUK = A(J+JX)
154    HULOK = A(J+LX+JX)
157    A(J+JX) = A(K+1+JX)
157    A(J+LX+JX) = A(LX+K+1+JX)
162    A(K+1+JX) = HOLD
167    A(K+2+JX) = HOLD
171    A(LL+K+1+JX) = HOLD
174    5 LL=6,I=1,N
176    I=1
176    IF ((K,LT,M(I))) GL=10,7
201    6 K=N-M(I)
204    7 K=N+M(I)
211    IF (SIGN,LT,0.0) GO TO 28
212    80 9   I = 1, LX
212    A(I+JX) = A(I+JX)/FLX
214
]
```

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212 9 ALL+LX+JX+JY+JZ+JX+JY
225 28 CONTINUE
225 RETURN
226 END

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```
      SUBROUTINE BLKSM
      CCHUNK/BLK1/NY/NBANK,N1,N2,IF,O,ITMELH,IWA(10),KHAN(55),NCHAN(45),
      *U,P,Y,A(45),AH(45),AB(45),AS(45),ASA(45),PK(350),LK(35C)
      CURMON A(1)
      2      DC 1 I = N1,N2
      4      A(11) = 0,0
      10     IS = N1-1
      12     M = 0
      13     2 IS = IS+1
      15     IRY = 0
      16     3 M = M+1
      20     LAB = JXB+1
      21     A(15) = A(15)+A(M)
      24     IF(M,GE,NY)GO TO 4
      26     IF(JXB,GE,NB)GO TO 2
      31     GL TO 3
      31     4 CONTINUE
      31     XRD = NA
      33     U$ I = N1,N2
      35     S A(11) = A(11)/XRD
      42     RETURN
      42     END
```

```

2      SUBROUTINE PKLOC
CUMMON/BLK1/NY,NU,NK,N1,N2,IFQ,LIM,IH,IWA(10),KHAN(45),LNCHAN(45),
2      *UHY,Y,A(45),AH(45),AB(45),AS(45),ASA(45),PK(350),LK(350)
2      CUMMON A(1)
2      DIMENSION XK(350)
2      I=1,N1=1
4      A(N1)=A(N2+1)=0.0
7      NK=0
10     N3=N1+1
11     LS=1
12     CX=A(N1)
13     DO 11 K=3,N2
15     LJ=A(K)
17     CX=AMAR(LJ,CX)
22     1 IF(CX.EV.C1)LS=K
30     CX5=UC5*CX
31     XS=1024.*FLOAT(LS)
34     PRINT 102,CX,XS
43     102 FORMAT(2X*CX,*E12.3,10X*LS,*F10.2)
43     NK=0
44     3 I=I+1
46     IF(I.GT.N2)GO TO 5
51     IF(A(I+1).LE.A(I))2,3
55     2 IF(A(I).LE.CX5)GO TO 4
61     NK=NK+1
63     PK(NK)=A(I)
65     LK(NK)=I
67     4 I=I+1
71     1 IF(I.GT.N2)GO TO 5
74     1 E(A(I+1)).GE.A(I))3,4
101    5 CALL SCALK(XK)
103    16 N=NK
105    NK=I=0
106    P(N+1)=0.0
110    13 I=I+1
112    1E(I.GT.N)GO TO 15
115    1F(PK(I+1).LE.PK(I))12,13
122    12 NK=NK+1
124    P(NK)=PK(I)
126    LK(NK)=LK(I)
130    14 I=I+1
132    . 1F(I.GE.N)GO TO 15
134    1F(PK(I+1).GE.PK(I))13,14
142    15 PRINT 105,(PK(J),J=1,NK)
155    CALL SCALAK(XK)
157    PRINT 1C1,IXX(J),J=1,NK)
172    1F(NK.GT.2)GO TO 16
176    100 FORMAT(1X*PK(10)10*2)
176    101 FORMAT(1A*PK(10)10*2)
176    RETURN
176    END

```

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```
      SUBROUTINE SCALK(XX)
      COMMON/BLK1/NY,NB,NK,N1,N2,IEQLIM,INI,WAI,LQ,I,NCHAN(45),
     *U,PIT,AX(45),AM(45),AB(45),AS(45),ASA(45),PK(350),LK(350)
      COMMON/A1/
      DIMENSION XK(350)
      SB=0.0
      IF(ND.GT.1)SB = 1024.
      NB = ND
      UU = 1
      I = 1,NK
      XK(I) = 1024. / ((L8(L1)-SB)*NBB)
      RETURN
      END
      END
```

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```
SUBROUTINE ARASP
2      C BAHUN/BLK1/NY,NBZ,NK,N1,N2,IEQ,IM2,IM,IWALL,ILANHAN(45),NCHAN(45),
2      *U,PAY,AX(45),AH(45),AB(45),AS(45),ASA(45),PK(350),LK(350)
2      COMMON A(1)
2      ASA(1M) = C.O.
4      JU,L,I,L = N1,N2
6      1 ASA(LH) = ASA(LM) + A(I)
13     ASA(LH) = SORT(ASA(LH))*(FLOAT(NR)/1024.0)
22     RETURN
23     END
```

APPENDIX C

STATISTICS FROM TAPES E921-33

SUMMARY OF STATISTICAL DATA FOR FC 21 - 1
 TIME IN MINUTE INTERVALS FROM START OF TAPF 0
 THE MEAN VALUES ON CHANNELS 3 THRU 44 HAVE NO DIRECT MEANING
 THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
 (PSI) = MICC = STRENS

CH.	NAME	1	2	3	4	5	6	7	8	9	10	11
		W1	W2	1HLL	1HT1	2HL1	2HT1	3HL1	3HT1	3HL2	3HT2	3HL1
		(PSI)										
	MAX.	21.90	20.37	48.02	1.00	27.44	3.60	20.58	9.00	27.44	1.60	5.40
	MIN.	14.36	16.42	-10.22	-7.00	-3.43	-4.00	-20.58	-23.40	-3.43	-5.00	-5.00
	MEAN	20.42	169.44	250.34	12.60	157.78	71.10	336.14	157.10	156.94	52.20	57.60
	STDEV	3.890	25.670	6.639	6.459	2.217	1.250	5.743	2.557	2.455	.585	.659
	CH.	12	13	14	15	16	17	18	19	20	21	22
	NAME	3HPL2	3HPL3	3HPT1	3HPT2	4HL1	4HT1	4HL2	4HT2	1V1	1V1	1V2
		(PSI)										
	MAX.	.00	9.00	22.50	1.00	2.70	24.01	7.20	27.44	1.60	63.70	139.65
	MIN.	-.00	-28.00	-2.70	-.00	-2.70	-6.66	-34.20	-34.43	-.90	-37.24	-63.79
	MEAN	.00	126.20	46.00	59.40	56.50	240.10	162.00	192.06	114.30	726.18	1005.46
	STDEV	.000	2.812	2.462	4.51	1.038	2.551	2.306	2.081	.428	16.047	31.703
	CH.	23	24	25	26	27	28	29	30	31	32	33
	NAME	2V1	2V2	3V1	3V2	3V3	4V1	4V2	4V3	4V4	C1	C1
		(PSI)										
	MAX.	46.55	111.72	93.10	53.79	55.86	0.00	74.48	74.48	55.86	3.48	3.48
	MIN.	-53.10	-37.24	-37.24	-18.62	-18.62	0.00	-27.53	-37.24	-18.62	-2.32	-2.32
	MEAN	7C7.56	707.56	530.67	437.57	5A6.53	0.00	614.46	623.77	5F6.53	141.52	141.52
	STDEV	1A.573	10.164	17.620	16.870	6.005	0.000	15.441	15.621	11.160	9.672	1.525
	CH.	26	35	36	37	38	39	40	41	42	43	44
	NAME	C2	C3	L1	C1	P1	P2	A1	A2	A3	A4	A4
		(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	TONS	TONS	TONS	TONS	TONS
	MAX.	3.48	4.64	.00	10.29	13.72	.00	.00	.00	.00	.00	.00
	MIN.	-2.32	-4.64	.00	-13.72	-13.72	-.14	-.10	-.06	-.06	-.06	-.06
	MEAN	122.96	132.24	.00	373.67	380.73	1.46	.06	.00	.00	.00	.00
	STDEV	1.012	1.761	.000	3.213	3.792	.040	.025	.000	.000	.000	.000

SUMMARY OF STATISTICAL DATA FOR
TUE, 11 68 MINUTE INTERVALS FROM START OF TAPE - 1
THE MEAN VALUES ON CHANNELS 3 THRU 44 HAVE NO DIRECT MEANING
THESE MEAN VALUES HAVE BEEN SURFACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
(PS) = MICKC - STPAINS

CH.	NAME	1	2	3	4	5	6	7	8	9	10	11
	(MPH)	61	42	14L1	1HT1	2H1	3H1	3H1	3H1	3H1	3HT2	3HSL1
MAX.	31.26	169.49	7P.AC	(PS)	65.17	2.70	34.30	5.40	51.45	(PS)	(PS)	(PS)
MIN.	18.02	0.57	-10.25	0.00	-3.43	-11.70	-37.73	-33.30	-3.43	1.80	1.80	13.50
MEAN	24.45	130.56	132.QN	0.00	150.62	51.30	243.53	165.66	192.C8	-1.40	-1.40	-1.60
STDEV	2.281	15.518	14.722	.000	6.669	6.683	4.743	1.731	5.0278	48.60	48.60	36.90
										0.532	0.532	1.413
CH.	NAME	12	13	14	15	16	17	18	19	20	21	22
	(PSL2)	24P13	3H271	3HET2	3H1	4HT1	4H1	4HT2	4V1	4V1	4V2	4V2
MAX.	*00	*00	*00	11.70	4.50	65.17	6.30	0.00	0.00	148.96	(PS)	(PS)
MIN.	*00	*00	*00	-1.40	-.50	-6.86	-40.50	0.00	0.00	55.66	251.37	251.37
MEAN	*00	*00	63.90	30.60	113.40	226.36	150.30	1.00	0.00	-121.03		
STDEV	.000	.000	.752	.524	.438	6.350	1.726	.000	.000	716.67	930.66	930.66
										23.103	37.353	37.353
CH.	NAME	23	24	25	26	27	28	29	30	31	32	33
	(PS)	2V1	2V2	2V1	2V2	3L3	3V4	4V1	4V2	4V3	4V4	C1
MAX.	37.24	146.66	(PS)	130.34	130.34	74.48	74.48	C3.10	102.41	(PS)	(PS)	(PS)
MIN.	-158.27	-46.55	-37.24	-37.24	-1E.62	-6.31	-46.55	-37.24	55.86	55.86	55.86	5.80
MEAN	725.49	670.32	512.05	412.05	577.22	46.55	595.64	595.64	-18.62	-18.62	-18.62	-4.64
STDEV	22.410	23.607	20.173	20.615	11.436	10.772	18.527	18.764	11.853	614.46	614.46	140.36
										10.145	10.145	1.456
CH.	NAME	34	35	36	37	38	39	40	41	42	43	44
	(PS)	F2	C3	L1	S1	F1	P2	A1	A2	A3	A4	A4
MAX.	3.49	4.64	0.00	10.26	27.44	•14	•10	•00	•00	•00	•00	•00
MIN.	-4.64	-5.50	0.00	-10.29	-24.01	-•23	-•19	•00	•00	•00	•00	•00
MEAN	5.12	119.48	•00	370.44	364.16	1.56	•54	•00	•00	•00	•00	•00
STDEV	1.066	1.714	.000	2.640	5.041	•046	•032	.CCC	.CCC	.CCC	.CCC	.CCC

SUMMARY OF STATISTICAL DATA FOR FG 22 - 2
TIME IN 60 MINUTE INTERVALS FROM START RE TAPe 39
THE MEAN VALUES ON CHANNELS 3, TAPe 44 HAVE BEEN SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
(MS) = MIECO - STREINS

CH.	1	2	3	4	5	6	7	8	9	10	11
NAME	W1	V2	1HL1 (MS)	1HT1 (MS)	2HT1 (MS)	3HL1 (MS)	3HT1 (MS)	4HL1 (MS)	4HT1 (MS)	5HL1 (MS)	5HT1 (MS)
MAX.	31.26	180.43	503.35	.00	154.35	67.20	531.65	43.20	75.46	45.10	37.40
MIN.	16.91	10.04	-274.40	.00	+10.29	-16.20	-44.59	-33.30	-15.29	-6.30	-6.30
MEAN	24.24	150.52	277.63	.00	161.21	61.20	277.63	171.00	158.44	54.00	42.30
STDEV	2.510	1H.280	200.768	.000	15.266	6.539	44.487	6.764	8.420	11.129	6.169
CH.	12	13	14	15	16	17	18	19	20	21	22
NAME	3HPL2 (MS)	3HPL3 (MS)	3HPL1 (MS)	3HT2 (MS)	3HT3 (MS)	4HT1 (MS)	4HT2 (MS)	4HT1 (MS)	4HT2 (MS)	4V1 (MS)	4V2 (MS)
MAX.	.00	.00	.00	.00	.90	411.60	65.70	.00	.00	.00	.00
MIN.	.00	.00	-5.40	-9.00	-.60	-20.58	-8.10	.00	.00	-93.10	-223.44
MEAN	.00	.00	69.30	36.60	113.40	246.96	155.70	.00	.00	754.11	1107.89
STDEV	.000	.000	7.291	6.545	6.528	35.514	7.602	.000	.000	76.563	236.008
CH.	23	24	25	26	27	28	29	30	31	32	33
NAME	2V1 (MS)	2V2 (MS)	2V1 (MS)	2V2 (MS)	3V4 (MS)	4V1 (MS)	4V2 (MS)	4V3 (MS)	4V4 (MS)	4V4 (MS)	C1 (MS)
MAX.	37.24	149.96	148.66	148.66	74.48	83.79	156.27	148.96	102.41	102.41	8.12
MIN.	-148.96	-46.55	-37.24	-46.55	-1R.62	-16.62	-46.55	-46.55	-27.93	-27.93	-4.64
MEAN	735.48	679.63	512.05	419.65	577.22	55.66	59.56	60.55	56.65	56.65	142.66
STDEV	26.315	29.257	24.231	24.446	14.620	13.874	24.905	25.117	16.459	16.459	1.670
CH.	34	35	36	37	38	39	40	41	42	43	44
NAME	C2 (MS)	C3 (MS)	L1 (MS)	S1 (MS)	P1 (PSI)	P2 (PSI)	TGS TONS	TGS TONS	A3	A4	
MAX.	0.26	0.12	.00	10.26	30.87	.15	.00	.00	.00	.00	
MIN.	-10.44	-4.64	.00	-13.72	-34.30	-.22	-.17	.00	.00	.00	
MEAN	87.00	120.64	.00	370.44	397.59	1.66	1.06	.00	.00	.00	
STDEV	2.750	1.RCO	.0000	4.610	6.707	.048	.030	.000	.000	.000	

SUMMARY OF STATISTICAL DATA FOR TIME IN MINUTE INTERVALS FROM START OF TAPE

**THE MEAN VALUES OF CHANNELS 3 THRU 44 HAVE NO DIRECT MEANING
(μ) = WICPO - STRAINS**

CH ₂	23	24	25	26	27	28	29	30	31	32	33
NH ₂ CH ₂ CH ₂ NE	2V1	2V2	3V1	1V2	3V3	3V4	4V1	4V2	4V3	4V4	C1
(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
CH ₂ CH ₂ CH ₂ Y ₁	55.4F6	232.75	223.44	214.13	111.72	121.03	214.13	139.65	130.34	130.34	H-12
CH ₂ CH ₂ CH ₂ Y ₂	-232.75	-65.17	-37.24	-55.4F6	-27.93	-27.93	-46.55	-37.24	-37.24	-46.55	-4.64
CH ₂ CH ₂ CH ₂ N	726.18	679.63	512.05	419.65	596.53	55.4F6	605.15	556.53	614.46	614.46	140.36
CH ₂ CH ₂ CH ₂ FV	33.274	40.751	31.586	31.295	1A.643	17.992	31.92C	31.630	2C.717	16.02b	1.952

	CH ₀	34	35	36	37	38	39	40	41	42	43	TGAS
	NAME	C ₂	C ₃	(PC)	(ME)	(PSI)	(PSI)	P ₁	P ₂	A ₁	A ₂	TGAS
MAY.	9.28	10.44	•00	6.86	34.30	•14	•14	•00	•00	•00	•00	•00
JUN.	-4.64	-6.56	•00	-24.01	-41.16	-•22	-•25	•00	•00	•00	•00	•00
MEAN	PC.32	121.80	•00	373.07	377.59	1.69	1.65	•00	•00	•00	•00	•00
STDEV	1.784	3.0116	•000	5.053	8.531	•046	•046	•000	•000	•000	•000	•000

SUMMARY OF STATISTICAL DATA FOR FG 22 - 4
 TIME IN 60 MINUTE INTERVALS FROM STAPY CF TAPE 41
 THE MEAN VALUES ON CHANNELS 3 THRU 44 HAVE NO CFFECT MEANING
 THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
 (MS) = MICRO - STRAINS

CH.	1	2	3	4	5	6	7	8	9	10	11
NAME	W1	W2	WLL1	WTL1	WLL1	WTL1	WLL1	WTL1	WLL2	WTL2	WLL1
	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
MAX.	37.64	179.46	261.55	.00	270.67	6.00	168.07	11.70	140.63	11.70	65.50
MIN.	20.42	6.57	-34.35	.00	-24.01	-10.60	-24.01	-27.96	-17.15	-2.70	-3.60
MEAN	29.99	149.55	199.64	.00	174.93	56.50	277.63	169.20	205.80	51.30	46.50
STDEV	3.090	16.422	46.257	.000	41.626	1.468	17.612	2.273	23.499	1.986	7.256
CH.	12	13	14	15	16	17	18	19	20	21	22
NAME	WPL2	WPL3	WETL	WTOT2	WTOT3	WTOT2	WTOT1	WTOT2	WTOT2	WTOT1	WTOT2
	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
MAX.	.00	.00	71.10	35.10	.60	270.97	7.20	.00	.00	260.64	502.74
MIN.	.00	.00	-4.50	-6.60	-6.60	-24.61	-36.00	.00	.00	-63.76	-148.46
MEAN	.00	.00	67.50	36.00	113.60	25.39	152.10	.00	.00	735.49	1014.76
STDEV	.000	.000	6.000	3.200	6.38	32.975	2.130	.000	.000	50.972	97.829
CH.	23	24	25	26	27	28	29	30	31	32	33
NAME	2V1	2V2	3V1	3V2	3V3	3V4	4V1	4V2	4V3	4V4	C1
	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
MAX.	65.17	289.61	204.42	186.20	130.65	139.65	214.13	195.51	167.58	145.96	8.12
MIN.	-257.92	-74.48	-55.86	-55.96	-27.93	-27.93	-65.17	-55.86	-55.86	-55.86	-5.86
MEAN	726.15	686.94	521.36	426.26	586.53	651.17	605.15	614.46	596.53	623.77	139.20
STDEV	49.829	51.223	42.694	41.462	25.667	24.626	41.243	40.636	31.410	27.626	2.027
CH.	34	35	36	37	38	39	40	41	42	43	44
NAME	C2	C3	L1	L2	P1	P2	TNS	A3	TNS	TNS	A4
	(MS)	(MS)	(MS)	(MS)	(PSJ)	(PSJ)	TNS	A3	TNS	TNS	A4
MAX.	12.76	11.60	.00	10.20	41.16	.15	.16	.00	.00	.00	.00
MIN.	-9.28	-5.80	.00	-17.15	-41.16	-.22	-.32	.00	.00	.00	.00
MEAN	104.40	121.80	.00	370.44	387.59	1.67	1.05	.00	.00	.00	.00
STDEV	3.015	2.155	.000	6.024	11.865	.066	.063	.000	.000	.000	.000

SUMMARY OF STATISTICAL DATA FOR TIME IN 60 MINUTE INTERVALS FROM START TO TAPE 42 THESE MEAN VALUES ON CHANNELS 3 AND 4 HAVE NO DIRECT MEANING (MST) = MEAN - STRAINS

CH _o	NAME	1	2	3	4	5	6	7	8	9	10	11
CH _o	NAPF	1 (PPH)	2 W2	3 (WS)	4 HT1	5 (PS)	6 HT1	7 (WS)	8 HT1	9 (PS)	10 HT2	11 HT2
MAY _o		35.73	176.46	210.52	164.64	164.64	164.64	164.64	164.64	164.64	164.64	164.64
MIN _o		21.37	5.97	-20.56	.00	-13.72	5.10	99.47	10.80	78.59	F.10	36.00
PEAK		24.03	149.55	145.22	164.64	164.64	164.64	164.64	164.64	164.64	-6.66	-2.70
STDEV		2.609	14.317	31.462	.000	22.046	.971	1.660	1.660	1.660	1.660	32.60
CH _o	NAPF	12 (PS)	13 (WS)	14 (WS)	15 (WS)	16 (WS)	17 (WS)	18 (WS)	19 (WS)	20 (WS)	21 (WS)	22 (WS)
MAY _o		*.00	*.00	34.20	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00
MIN _o		*.00	*.00	-2.70	-5.40	-5.40	-5.40	-5.40	-5.40	-5.40	-5.40	-5.40
MEAN		*.00	.00	67.50	25.10	113.40	240.10	151.20	151.20	151.20	151.20	151.20
STDEV		*.000	*.000	2.664	1.711	1.711	1.711	1.711	1.711	1.711	1.711	1.711
CH _o	NAPF	23	24	25	26	27	28	29	30	31	32	33
MAY _o		2V1 (PS)	2V2 (WS)	3V1 (WS)	3V2 (WS)	3V3 (WS)	3V4 (WS)	4V1 (WS)	4V2 (WS)	4V3 (WS)	4V4 (WS)	C1 (WS)
MIN _o		55.36	214.13	176.85	167.58	93.10	102.41	176.89	167.58	136.65	136.34	6.66
PEAK		-214.13	-55.46	-46.55	-27.93	-27.93	-27.93	-55.86	-55.86	-46.55	-37.24	-5.80
STDEV		726.18	674.63	521.36	419.65	596.53	55.86	605.15	614.46	586.53	614.46	13b.04
CH _o	NAPF	34	35	36	37	38	39	40	41	42	43	44
MAY _o		1 (PS)	2 (PS)	3 (PS)	4 (PS)	5 (PS)	6 (PS)	7 (PS)	8 (PS)	9 (PS)	TONS	TONS
MIN _o		-4.64	9.28	*.00	6.86	34.30	*.17	*.14	*.00	*.00	TONS	TONS
MEAN		103.24	120.64	*.00	-17.15	-30.87	-19	-25	*.00	*.00	*.00	*.00
STDEV		1.443	1.675	*.000	373.77	384.16	1.67	1.67	*.054	*.054	*.00	*.00

SUMMARY OF STATISTICAL DATA FOR
TIME IN 60 MINUTE INTERVALS FROM START OF TAPE 43
THE MEAN VALUES ON CHANNELS 3 THRU 44 HAVE NO DIRECT MEANING
THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
(MS) = MICRO - STRAINS

CH.	NAME	1	2	3	4	5	6	7	8	9	10	11
		W1	W2	1HLL1 (MS)	1HT1 (MS)	2HLL1 (MS)	2HT1 (MS)	3HLL1 (MS)	3HT1 (MS)	4HLL1 (MS)	4HT1 (MS)	5HLL1 (MS)
	MAX.	34.45	169.43	277.63	.00	277.83	11.70	16.07	14.40	144.06	15.30	63.00
	MIN.	16.18	129.61	-30.67	.00	-20.58	-5.00	-20.58	-26.10	-13.72	-1.60	-3.60
	MEAN	28.71	159.52	198.94	.00	171.50	56.50	277.83	164.20	202.37	50.40	41.40
	STDEV	2.756	7.557	44.623	.000	37.524	1.422	19.162	2.406	22.672	2.038	7.965
CH.	NAME	12	13	14	15	16	17	18	19	20	21	22
		3HFL1 (MS)	2HPL3 (MS)	3HFT1 (MS)	3HOT2 (MS)	3HRT3 (MS)	4HLL1 (MS)	4HT1 (MS)	4HL12 (MS)	4H12 (MS)	4V1 (MS)	4V2 (MS)
	MAX.	.00	.00	61.20	36.00	.50	219.52	13.50	.00	.00	276.30	512.05
	MIN.	.00	.00	-4.50	-7.20	-9.90	-17.15	-32.40	.00	.00	-13.74	-15.827
	MEAN	.00	.00	67.50	35.10	113.40	243.53	152.10	.00	.00	735.49	1024.10
	STDEV	.000	.000	6.929	3.723	.460	33.084	2.221	.000	.000	52.176	100.267
CH.	NAME	23	24	25	26	27	28	29	30	31	32	33
		2V1 (MS)	2V2 (MS)	3V1 (MS)	3V2 (MS)	3V3 (MS)	3V4 (MS)	4V1 (MS)	4V2 (MS)	4V3 (MS)	4V4 (MS)	C1
	MAX.	65.17	242.06	325.85	247.62	196.20	176.54	316.54	316.54	251.37	4.26	(MS)
	MIN.	-242.06	-93.79	-55.86	-65.17	-27.93	-27.93	-65.17	-55.86	-65.17	-4.64	
	MEAN	726.18	688.44	521.36	428.26	586.53	65.17	605.25	614.46	566.53	136.66	
	STDEV	50.024	52.006	47.606	45.080	25.776	24.871	45.935	44.996	34.928	30.917	1.984
CH.	NAME	34	35	36	37	38	39	40	41	42	43	44
		C2 (MS)	C3 (MS)	L1 (MS)	S1 (MS)	S2 (MS)	P1 (PSI)	P2 (PSI)	A1 TONS	A2 TONS	A3 TONS	A4 TONS
	MAX.	13.62	9.28	.00	13.72	54.88	.21	.25	.00	*.00	*.00	*.00
	MIN.	-4.64	-10.44	.00	-27.44	-51.45	-*.29	-*.33	*.00	*.00	*.00	*.00
	MEAN	88.16	124.12	.01C	370.44	384.16	1.67	1.03	.00	.00	.00	.00
	STDEV	1.517	3.488	.000C	6.380	12.829	.062	.075	.000	.000	.000	.000

SUMMARY OF STATISTICAL DATA FOR FG 24 - 1
TIME IN 60 MINUTE INTERVALS FROM START OF TAPE 0
THE MEAN VALUES ON CHANNELS 3 THRU 44 HAVE DIRECT MEANING
THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
(MS) = MICRO - STRAINS

CH.	NAME	1	2	3	4	5	6	7	8	9	10	11
	NAME	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
MAX.	2E.39	209.37	.00	2.70	44.50	.00	24.01	.00	17.15	4.50	1.80	
MIN.	13.40	.00	.00	-3.43	.00	-17.15	.00	-3.43	-1.80	-1.00	-1.00	
MEAN	19.46	139.52	.00	30.60	188.65	.00	270.67	.00	168.65	51.30	50.40	
STDEV	2.670	54.889	.000	4.36	.000	5.501	.000	2.776	.906	.427		
	NAME	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
CH.	12	13	14	15	16	17	18	19	20	21	22	
NAME	3HP12	3HP13	3HP14	3HP15	3HP16	4HT1	4HT2	4HT1	4HT2	1V1	1V2	
MAX.	*.00	7.20	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	
MIN.	*.00	-27.00	3.60	6.30	130.50	58.31	6.30	*.00	*.00	111.72	*.00	
MEAN	*.00	205.20	-6.30	-2.70	-23.40	-6.66	-35.10	*.00	*.00	-74.48	*.00	
STDEV	*.000	2.015	52.20	47.70	78.50	236.67	170.10	*.00	*.00	1024.10	*.00	
	NAME	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
CH.	23	24	25	26	27	28	29	30	31	32	33	
NAME	2V1	2V2	2V3	2V4	2V5	4V1	4V2	4V3	4V4	C1	C1	
MAX.	74.49	167.58	121.03	111.72	102.41	83.79	130.34	121.03	145.96	(MS)	(MS)	
MIN.	-135.65	-65.17	-55.46	-65.17	-18.62	-27.93	-37.24	-46.55	-27.93	121.03	*.00	
MEAN	1056.58	996.17	1214.61	996.17	1191.66	716.67	1014.79	1061.34	958.93	-18.62	-18.62	
STDEV	33.6230	34.777	25.943	24.936	10.078	9.574	25.100	27.019	21.176	141.52	141.52	
	NAME	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
CH.	34	35	36	37	38	39	40	41	42	43	44	
NAME	C2	C2	L1	C1	P1	P2	TNS	TNS	TNS	TNS	A4	
MAX.	3.48	6.06	*.00	17.15	17.15	*.18	*.12	*.00	*.00	*.00		
MIN.	-2.48	-5.00	*.00	-10.20	-20.56	-30	-19	*.00	*.00	*.00		
MEAN	146.48	136.88	*.00	4CL.21	42R.75	1.56	1.61	*.00	*.00	*.00		
STDEV	1.474	3.615	*.000	4.472	5.469	.076	.063	*.000	*.000	*.000		

SUMMARY OF STATISTICAL DATA FOR FG 24 - 2
 TIME IN 60 MINUTE INTERVALS FROM START OF TAPF 1
 THE MEAN VALUES ON CHANNELS 3 THROUGH 44 HAVE NO DIRECT MEANING
 THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE P1N, AND MAX. VALUES FOR THESE CHANNELS
 (P1S) = MICRO - STRAINS

CH#	NAME	1	2	3	4	5	6	7	8	9	10	11
		(MS)	(MS)	(MS)	(PS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
MAY.	32.26	169.40	.00	1.80	246.66	.00	113.19	.00	37.73	12.60	41.40	
MIN.	18.18	.00	.00	-.80	-10.29	.00	-17.15	.00	-6.86	-2.70	-1.80	
MEAN	24.24	149.25	.00	29.70	195.51	.00	264.11	.00	186.65	53.10	47.70	
STDEV	2.892	46.632	.000	3.08	16.128	.000	6.903	.000	5.470	1.559	2.511	
CH#	NAME	12	13	14	15	16	17	18	19	20	21	22
		(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
MAY.	.00	18.50	29.70	34.00	43.20	176.36	14.40	.00	.00	.00	.00	.00
MIN.	.00	-36.90	-4.50	-2.70	-12.60	-10.29	-41.40	.00	.00	.00	.00	.00
MEAN	.00	204.30	51.30	42.30	60.30	240.10	167.40	.00	.00	.00	.00	.00
STDEV	.000	2.206	1.370	1.278	6.231	16.142	2.114	.000	.000	.000	.000	.000
CH#	NAME	23	24	25	26	27	28	29	30	31	32	33
		(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
MAY.	63.10	316.54	251.37	251.37	223.44	269.99	166.20	148.96	148.96	148.96	148.96	148.96
MIN.	-325.85	-63.79	-65.17	-65.17	-37.24	-83.79	-83.79	-83.79	-83.79	-83.79	-83.79	-83.79
MEAN	106.58	596.17	1219.61	556.17	1191.66	716.67	1024.10	1061.34	958.93	958.93	958.93	958.93
STDEV	55.017	56.553	48.405	46.962	25.517	24.639	45.371	46.423	31.469	31.469	31.469	31.469
CH#	NAME	34	35	36	37	38	39	40	41	42	43	44
		(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
MAY.	4.64	8.12	.00	17.15	24.01	.00	.00	.00	.00	.00	.00	.00
MIN.	-5.80	-8.12	.00	-27.44	-51.45	-.44	-.28	-.00	-.00	-.00	-.00	-.00
MEAN	145.64	135.72	.00	404.74	428.75	1.57	1.63	.00	.00	.00	.00	.00
STDEV	1.687	3.877	.000	7.459	10.365	.102	.070	.000	.000	.000	.000	.000

SUMMARY OF STATISTICAL DATA FOR
TIME IN 60 MINUTE INTERVALS FROM START OF TAPP²
THE MEAN VALUES ON CHANNELS 3 THRU 44 HAVE NO EFFECT MEANING
THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
(PSI) = MICPO - STRAINS

CH.	NAME	1	2	3	4	5	6	7	8	9	10	11
		W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11
		(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)
MAX.	31.5A	160.40	.00	178.99	.00	216.49	.00	75.46	.00	21.60	72.90	3HRL1 (MS)
MIN.	16.1A	.00	.00	-20.58	.00	-30.67	.00	-6.66	.00	-2.70	-3.60	
MEAN	24.5A	169.40	.00	30.60	.00	253.62	.00	162.06	.00	52.20	44.60	
STDEV	2.330	25.618	.0000	47.746	.0000	20.181	.0000	10.225	.0097	3.097	7.815	
CH.	NAME	12	13	14	15	16	17	18	19	20	21	22
		3HPL2	3HPL3	3HPL4	3HPL5	4HPL1	4HPL2	4HPL3	4HPL4	4HPL5	4HPL6	4HPL7
		(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
MAX.	.00	27.00	68.40	36.00	60.30	346.43	21.60	.00	.00	437.97	.00	
MIN.	.00	-202.50	-6.30	-5.10	-0.00	-20.58	-46.80	.00	.00	-134.65	.00	
MEAN	.00	202.50	53.10	43.20	57.60	243.53	166.50	.00	.00	1014.79	.00	
STDEV	.000	14.949	5.491	3.338	6.276	36.317	2.892	.0000	.0000	70.272	.0000	
CH.	NAME	23	24	25	26	27	28	29	30	31	32	33
		2V1	2V2	2V3	2V4	3V3	3V4	4V1	4V2	4V3	4V4	C1
		(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
MAX.	102.41	418.95	344.47	353.78	260.68	251.37	372.40	372.40	279.30	251.37	27.64	
MIN.	-400.33	-102.41	-102.41	-102.41	-102.41	-46.55	-37.24	-130.34	-102.41	-74.48	-65.17	
MEAN	109.58	95.17	122.92	556.17	1200.99	716.87	1024.10	1061.34	558.93	99.17	146.16	
STDEV	73.419	75.364	64.224	63.598	34.535	33.548	61.954	62.231	37.627	32.903	12.903	
CH.	NAME	34	35	36	37	38	39	40	41	42	43	44
		C2	C3	L1	S1	S2	P1	P2	A1	A2	A3	A4
		(MS)	(MS)	(MS)	(MS)	(MS)	(PSI)	(PSI)	TCON	TCNS	TONS	TONS
MAX.	A.12	11.60	.00	17.15	5R.31	.30	.25	.00	.00	.00	.00	.00
MIN.	-A.12	-10.44	.00	-30.87	-68.60	-39	-36	.00	.00	.00	.00	.00
MEAN	142.6P	133.40	.00	404.74	428.75	1.59	1.64	.00	.00	.00	.00	.00
STDEV	1.001	3.602	.0000	E.918	14.669	.055	.063	.000	.000	.000	.000	.000

SUMMARY OF STATISTICAL DATA FOR
TIME IN 60 MINUTE INTERVALS FROM START OF TEST 3
THE MEAN VALUES ON CHANNELS 3 THRU 64 HAVE NO DIRECT MEANING
THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
(MS) = MICRO - STRAINS

CH.	NAME	1	2	3	4	5	6	7	8	9	10	11
	b1	W2	1HL1	2HT1	2HL1	3HL1	3HL2	3HT1	3HT2	3HL1	3HL1	
	(MPH)	(MS)	(MS)	(PS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	
MAX.	31.26	209.37	.00	1.80	384.16	.00	222.55	.00	75.46	22.50	74.70	
MIN.	16.59	*00	*00	-*.50	27.44	*00	-24.01	*00	-6.86	-2.70	-3.60	
MEAN	24.56	169.49	*00	30.60	216.09	*00	257.25	*00	152.09	33.10	47.70	
STDEV	2.897	33.374	*000	*414	61.027	*000	23.935	*000	12.667	3.806	9.349	
CH.	NAME	12	13	14	15	16	17	18	19	20	21	22
	3HL12	3HL3	3HPT1	3HPT2	3HDT3	4HL1	4HT1	4HT2	4V1	4V1	4V2	
	(MS)	(MS)	(PS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	
MAX.	*00	27.00	68.40	37.80	67.50	315.56	21.60	*00	55.60	*00	*00	
MIN.	*00	-202.50	-5.40	-9.50	-6.30	-27.44	-41.40	*00	-17.68	*00	*00	
MEAN	*00	-202.50	54.00	40.50	54.90	250.39	167.40	*00	1014.79	*00	*00	
STDEV	*000	16.151	6.517	4.634	7.119	47.999	3.261	*000	61.870	*000	*000	
CH.	NAME	23	24	25	26	27	28	29	30	31	32	33
	2V1	2V2	3V1	3V2	3V3	3V4	4V1	4V2	4V3	4V4	4V4	C1
	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	
MAX.	130.34	437.57	353.76	353.78	242.06	242.06	301.02	301.02	297.92	266.61	20.88	
MIN.	-437.57	-140.56	-130.34	-130.34	-46.55	-46.55	-37.24	-130.34	-121.03	-3.79	-62.79	-9.28
MEAN	1107.89	996.17	1228.92	696.17	1200.59	716.87	1024.10	1061.34	558.93	99.617	153.12	
STDEV	65.314	67.170	71.563	65.866	37.530	36.839	68.847	69.331	42.233	37.647	3.677	
CH.	NAME	34	35	36	37	38	39	40	41	42	43	44
	C2	C3	L1	S1	S2	P1	P2	A1	A2	A3	A4	
	(MS)	(MS)	(MS)	(PS)	(PS)	(PSI)	(PSI)	TONS	TONS	TONS	TONS	
MAX.	5.80	15.06	*00	17.19	92.61	*30	*00	*00	*00	*00	*00	
MIN.	-10.44	-15.08	*00	-30.87	-80.18	*41	*46	*00	*00	*00	*00	
MEAN	145.00	145.00	*00	4C4.74	42F.75	1.61	1.66	*00	*00	*00	*00	
STDEV	1.450	3.907	*000	6.598	17.643	*110	*104	*000	*000	*000	*000	

SUMMARY OF STATISTICAL DATA FOR FG 24 - 5
TIME IN 68 MINUTE INTERVALS FROM START OF TAPE 4
THE MEAN VALUES ON CHANNELS 3 THRU 44 HAVE NO DIRECT MEANING
THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
(MS) = MFCP1 - STRAINS

CH.	NAME	1 (MPH)	2 DFC.	3 1HL1 (MS)	4 1HT1 (PSI)	5 2HL1 (MS)	6 2HT1 (MS)	7 3HL1 (MS)	8 3HT1 (PSI)	9 3HL2 (MS)	10 3HT2 (MS)	11 3HL1 (MS)
HAY.	31.58	229.31	.00	2.70	41.16	.00	20.58	.00	24.01	6.30	10.80	
MIN.	7.97	*.00	*.00	*.00	-3.43	*.00	-24.01	*.00	-3.43	-1.60	-9.00	
PEZ	15.55	150.52	.00	29.70	192.08	.00	253.02	.00	186.65	51.30	45.50	
STDEV	4.354	55.001	.000	.496	3.392	.000	4.507	.000	3.442	.666	.623	
CH.	12 NAME	2HL1 (PSI)	3HL1 (MS)	14 3HPT1 (PSI)	15 3HPT2 (PSI)	16 3HPT3 (MS)	17 4HT1 (MS)	18 4HT2 (PSI)	19 4HT2 (PSI)	20 4HT2 (PSI)	21 IV1 (MS)	22 IV2 (MS)
HAY.	*.00	5.40	4.50	2.70	52.20	52.61	5.40	.00	*.00	*.00	170.39	*.00
MIN.	*.00	-45.90	-6.30	-2.70	*.00	-6.86	-48.60	*.00	*.00	*.00	-55.86	*.00
MEAN	*.00	203.40	52.20	3C.60	*.00	226.38	167.40	*.00	*.00	*.00	996.17	*.00
STDEV	*.030	2.049	1.634	*.93	1.154	5.003	1.692	*.000	*.000	*.000	28.253	*.000
CH.	23 NAME	2V1 (MS)	2V2 (MS)	2V3 (MS)	2V4 (MS)	2V5 (MS)	2V6 (MS)	2V7 (MS)	2V8 (MS)	2V9 (MS)	3V3 (MS)	3V4 (MS)
HAY.	74.48	176.89	148.96	148.96	130.34	130.34	148.66	148.66	148.66	148.66	93.10	115.50
MIN.	-167.58	-74.46	-55.86	-55.86	-27.63	-27.63	-16.62	-37.24	-37.24	-27.53	-27.93	-5.60
PEZ	1117.20	986.86	1210.30	986.86	1191.68	1191.68	716.87	1005.48	1042.72	950.93	956.17	145.48
STDEV	30.560	32.511	25.486	26.043	11.569	11.569	11.277	26.122	28.351	16.647	16.193	3.567
CH.	34 NAME	C2 (MS)	C2 (MS)	L1 (MS)	S (PSI)	S (PSI)	P1 (PSI)	P2 (PSI)	P1 (PSI)	T1 (PSI)	T2 (PSI)	A2 (PSI)
HAY.	2.48	6.96	.00	13.72	17.15	*.18	*.14	*.00	*.00	*.00	*.00	A4
MIN.	-2.49	-5.80	*.00	-24.01	-27.44	*.32	*.18	*.00	*.00	*.00	*.00	TONS
PEZ	14F.48	140.36	*.00	4CB.17	432.018	1.67	1.70	*.00	*.00	*.00	*.00	
STDEV	1.521	3.683	.000	4.698	5.970	.074	.049	.000	.000	.000	.000	

SUMMARY OF STATISTICAL DATA FOR EG 24 - 6
 TYPE IN 60 MINUTE INTERVALS FROM START OF TAPF - 61
 THE MEAN VALUES ON CHANNELS 3 THRU 44 HAVE NO DIRECT MEANING
 THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
 (MS) = MICRO - STRAINS

CH.	NAME	1	2	3	4	5	6	7	8	9	10	11
		(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
MAY.	25.03	229.31	.00	3.60	2H11 (MS)	2H11 (MS)	2H11 (MS)	3H11 (MS)	3H11 (MS)	3H12 (MS)	3H12 (MS)	3H12 (MS)
MIN.	10.45	.00	-.00	-3.43	.00	-13.72	.00	-3.43	.00	2.70	2.70	2.70
MEAN	18.18	189.43	.00	32.40	1A5.22	.00	298.41	.00	188.65	-1.30	-1.30	-1.30
STDEV	3.803	24.315	.000	.337	2.472	.000	.5011	.000	2.428	.666	.666	.666
CH.	12	13	14	15	16	17	18	19	20	21	22	
NAME	3H12 (MS)	3H13 (MS)	3H1T1 (MS)	3HPT2 (MS)	3HPT3 (MS)	4H11 (MS)	4H11 (MS)	4H12 (MS)	4H12 (MS)	4V1 (MS)	4V2 (MS)	
MAY.	*.00	*.10	4.5C	2.70	6.30	30.07	6.10	*.00	*.00	121.03	*.00	
MIN.	*.00	-23.40	-2.70	-1A.00	-1P.00	-6.66	-37.24	*.00	*.00	-74.48	*.00	
MEAN	*.00	207.9C	37.AC	36.0C	117.90	246.96	175.50	*.00	*.00	1024.10	*.00	
STDEV	*.000	2.183	*.854	.618	4.983	2.520	2.136	*.00	*.00	20.169	*.000	
CH.	23	24	25	26	27	28	29	30	31	32	33	
NAME	2V1 (MS)	2V2 (MS)	3V1 (MS)	3V2 (MS)	3V3 (MS)	3V4 (MS)	4V1 (MS)	4V2 (MS)	4V3 (MS)	4V4 (MS)	C1 (MS)	
MAY.	74.48	130.34	93.10	74.48	37.24	27.93	74.48	74.48	55.86	6.96		
MIN.	-13C.34	-74.46	-46.55	-55.56	-37.24	-27.93	-37.24	-46.55	-27.93	-5.86		
MEAN	10CF.56	1005.46	1228.92	10C5.48	1151.6C	735.49	1014.79	1061.34	95e.93	966.86	141.52	
STDEV	17.F33	20.571	17.911	17.4F6	6.C35	5.549	14.822	16.C67	11.913	E.393	2.925	
CH.	34	35	36	37	38	39	40	41	42	43	44	
NAME	C2 (MS)	C3 (MS)	L1 (MS)	S1 (MS)	P1 (PSI)	P2 (PSI)	T0N5 (PSI)	T0N5 (PSI)	T0N5 (PSI)	T0N5 (PSI)	T0N5 (PSI)	
MAY.	3.48	6.12	*.00	10.2C	13.72	*.15	*.00	*.00	*.00	*.00	*.00	
MIN.	-3.48	-6.96	*.00	-13.72	-17.15	-*.23	*.00	*.00	*.00	*.00	*.00	
MEAN	148.49	143.84	*.00	397.88	428.75	1.59	1.64	1.64	1.64	1.64	1.64	
STDEV	1.137	3.267	*.000	3.150	3.661	*.064	*.031	*.000	*.000	*.000	*.000	

SUMMARY OF STATISTICAL DATA FOR FG 24 - 7
TIME IN 60 MINUTE INTERVALS FROM START OF TAPP 63
THE MEAN VALUES ON CHANNELS 3 THRU 44 HAVE NO DIRECT MEANING
THESE MTAN VALUES HAVE BEEN SURPACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
(MS) = MICRO - STRAINS

CH.	1	2	3	4	5	6	7	8	9	10	11
NAME	W1	W2	REG.	1H1L1	1H1T1	2H1L1	3H1L1	3H1L2	3H1L2	3H1L2	3H1L1
	(PSI)	(PSI)	(PSI)	(MS)	(MS)	(MS)	(MS)	(PSI)	(PSI)	(PSI)	(MS)
MAX.	33.61	209.37	.00	.00	80.18	.00	96.04	.00	24.01	16.20	23.40
MIN.	14.04	.00	.00	.00	-3.43	.00	-17.15	.00	-3.43	-1.30	-1.00
MEAN	24.88	149.55	.00	.00	189.65	.00	274.40	.00	166.65	55.80	52.20
STDEV	3.675	37.373	.000	.4F4	7.214	.000	6.922	.000	3.658	1.026	1.230
CH.	12	13	14	15	16	17	18	19	20	21	22
NAME	3HPL2	3HPL3	3HPT1	3HPT2	3HPT3	4H1L1	4H1L2	4H1L2	4H1T2	1V1	1V2
	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
MAX.	.00	0.00	37.80	37.80	113.40	92.61	7.20	.00	.00	167.58	.00
MIN.	.00	-2t.10	-2.70	-1. PC	-116.10	-10.29	-34.20	.00	.00	-74.48	*.00
MEAN	.00	205.20	34.2C	2A.00	116.10	246.56	172.60	.00	.00	1024.10	.00
STDEV	.000	2.143	1.434	1.421	100.654	116.8	2.077	.000	.000	36.444	.000
CH.	23	24	25	26	27	28	29	30	31	32	33
NAME	2V1	2V2	3V1	3V2	3V3	3V4	4V1	4V2	4V3	4V4	C1
	(MS)	(PSI)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
MAX.	53.10	214.13	3C7.23	262.61	167.58	176.89	158.27	158.27	146.46	121.03	E.12
MIN.	-204.82	-83.79	-74.48	-65.17	-27.93	-27.93	-55.86	-46.55	-74.48	-55.86	-14.72
MEAN	1058.58	96.17	1228.92	556.17	1191.66	735.49	1024.10	1061.34	955.93	986.86	156.50
STDEV	39.169	41.632	37.046	36.534	17.224	16.934	31.904	32.760	25.666	18.737	3.522
CH.	34	35	36	37	38	39	40	41	42	43	44
NAME	C2	C3	L1	S1	P1	P2	A1	A2	A3	A4	
	(MS)	(PSI)	(MS)	(MS)	(PSI)	(PSI)	TONS	TONS	TONS	TONS	
MAX.	4.64	25.52	.00	17.15	20.5F	.21	.18	.00	.00	.00	
MIN.	-4.64	-9.28	.00	-24.01	-4E.02	-41	-23	.00	.00	.00	
MEAN	153.12	138.04	.00	401.31	428.75	1.55	1.61	.00	.00	.00	
STDEV	1.719	7.214	.000	6.455	7.176	.096	.053	.000	.000	.000	

SUMMARY OF STATISTICAL DATA FOR
 TIME IN 60 MINUTE INTERVALS FROM START OF TAPE 64.
 THE MEAN VALUES ON CHANNELS 3, THE 44-HZ VF AND DIRECT MEANING
 THESE MFZN VALUES HAVE BEEN SURFACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
 (MS) = MICRO - STRAINS

CH#	NAME	1	2	3	4	5	6	7	8	9	10	11
		L1	W2	1H1	1HT1	2H1	2HT1	3H1	3HT1	3H2	3HT2	3HRL1
	(MSPH)	0.00	150.40	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
MAX.	38.28	150.40	*00	442.47	*00	236.67	*00	66.16	24.30	84.66	24.30	84.66
MIN.	20.74	9.57	*00	-50	-37.73	*00	-30.57	*00	-10.29	-3.60	-6.30	-6.30
MEAN	28.71	169.49	*00	30.60	226.38	*00	274.40	*00	195.51	55.80	54.96	54.96
STDEV	2.677	17.148	*000	5.25	76.663	*000	35.329	*000	14.454	4.340	12.336	12.336
CH#	NAME	12	13	14	15	16	17	18	19	20	21	22
		3HRI2	3HRI3	3HPT1	3HPT2	4HPT3	4H1L1	4H1L2	4H1L2	4V1	4V2	4V2
	(MS)	(*S)	(*S)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
MAX.	*00	28.80	94.50	87.90	173.70	401.31	21.60	*00	*00	406.64	*00	406.64
MIN.	*00	-200.70	-36.30	-10.50	-26.10	-34.30	-36.00	*00	*00	-176.89	*00	-176.89
MEAN	*00	200.70	35.60	25.20	26.10	270.97	171.90	*00	*00	1024.10	*00	1024.10
STDEV	*000	26.567	10.576	6.662	15.543	56.486	3.823	*000	*000	89.020	*000	89.020
CH#	NAME	23	24	25	26	27	28	29	30	31	32	33
		2V1	2V2	3V1	3V2	3V3	3V4	4V1	4V2	4V3	4V4	C1
	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)
MAX.	121.03	437.57	400.64	400.23	251.37	242.06	409.64	400.33	247.92	269.99	12.76	12.76
MIN.	-428.26	-130.34	-111.77	-121.03	-46.55	-55.86	-139.65	-121.03	-111.72	-111.72	-8.12	-8.12
MEAN	1069.27	1005.46	1239.23	1014.79	1200.59	754.11	1033.41	1070.65	658.93	996.17	151.66	151.66
STDEV	92.826	94.112	86.811	84.415	41.408	4C.106	76.656	76.629	47.298	41.539	3.645	3.645
CH#	NAME	34	35	36	37	38	39	40	41	42	43	44
		C2	C3	L1	S1	P1	P2	TDS	TDS	TDS	TDS	TDS
	(MS)	(MS)	(MS)	(MS)	(MS)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)
MAX.	6.66	13.92	*00	17.15	72.03	*34	.36	*00	*00	*00	*00	*00
MIN.	-6.28	-13.92	*00	-41.16	-75.46	-47	-47	*00	*00	*00	*00	*00
MEAN	154.28	143.84	*00	404.74	428.75	1.57	1.63	*00	*00	*00	*00	*00
STDEV	2.144	3.484	*000	11.492	17.792	*113	.116	*000	*000	*000	*000	*000

SUMMARY OF STATISTICAL DATA FOR FC 24 - 9
 TIME IN 60 MINUTE INTERVALS FROM START OF TAPE 65
 THE MEAN VALUES ON CHANNELS 3 THRU 44 WAVE NON DIRECT MEANING
 THESE MEAN VALUES HAVE SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
 (MS) = MICRO - STRAINS

CH#	NAME	1	2	3	4	5	6	7	8	9	10	11
		W1	42	14L1	2H1	2HL1	2HT1	3HL1	3HT1	3HL2	3HT2	3HL1
MAX.	(MPH)	36.26	219.34	*.00	15.30	407.35	*.00	329.28	*.00	42.61	24.10	114.30
MIN.		20.74	.00	*.00	-.60	-243.53	*.00	-27.73	*.00	-17.15	-6.30	-9.50
MEAN		26.71	169.49	*.00	29.70	246.56	*.00	267.54	*.00	168.94	57.60	54.90
STDEV		3.604	24.036	*.000	.551	90.206	*.000	49.627	*.000	18.413	6.023	17.859
CH#	NAME	12	13	14	15	16	17	18	19	20	21	22
		3HPL3	3HPT1	3HPT2	3HPT3	4HL1	4HT1	4HL2	4HT2	4V1	4V2	4V3
MAX.	(PSI)	*.00	32.40	1CP.00	73.00	72.90	418.46	22.50	*.00	*.00	*.00	(PSI)
MIN.		*.00	-197.10	-5.90	-10.80	-156.60	-48.02	-153.00	*.00	*.00	*.00	614.46
MEAN		*.00	197.10	40.50	15.00	156.60	251.26	171.90	*.00	*.00	*.00	-195.51
STDEV		*.000	22.674	15.182	9.293	26.438	76.619	5.560	*.000	*.000	*.000	1024.10
CH#	NAME	23	24	25	26	27	28	29	30	31	32	33
		2V1	2V2	3V1	3V2	3V3	3V4	4V1	4V2	4V3	4V4	C1
MAX.	(MS)	15F.27	546.29	651.70	651.70	325.85	335.16	(PSI)	(PSI)	(MS)	(MS)	(MS)
MIN.		-530.67	-176.59	-135.65	-148.96	-55.66	-55.66	642.36	651.70	465.50	446.66	174.40
MEAN		10F9.27	1C05.46	1235.23	10C5.48	1200.59	754.11	-148.96	-135.65	-111.72	-110.44	996.17
STDEV		117.678	119.438	1022.633	10C6.6F	4C0.339	47.443	1024.10	1C70.65	558.93	148.4F	3.700
CH#	NAME	34	35	36	37	38	39	40	41	42	43	44
		C2	C3	L1	C1	C2	(PSI)	P1	P2	A2	A3	A4
MAX.	(PSI)	8.12	12.76	*.00	20.58	99.47	*.36	*.30	*.00	TENS	TENS	TONS
MIN.		-9.29	-10.44	*.00	-61.74	-106.33	-5.51	-5.51	*.00	*.00	*.00	*.00
MEAN		146.16	130.20	*.00	4C4.74	42F.75	1.61	1.61	*.00	*.00	*.00	*.00
STDEV		2.271	4.073	*.000	12.813	23.397	.128	.135	*.000	*.000	*.000	*.000

SUMMARY OF STATISTICAL DATA FOR FC 25 - 1
 TIME IN 60 MINUTE INTERVALS FROM START OF TAPE 79
 THE MEAN VALUES ON CHANNELS 3 THRU 64 HAVE NO DIRECT MEANING
 THESE MEAN VALUES HAVE BEEN SURFACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
 (PS) = MICRON - STRAINS

CH.	NAME	1	2	3	4	5	6	7	8	9	10	11
		L1	L2	1HL1 (PS)	1HT1 (PS)	2HL1 (PS)	2HT1 (PS)	3HL1 (PS)	3HT1 (PS)	3HL2 (PS)	3HT2 (PS)	
MAY.	MEAN	29.67	180.43	.00	4.50	233.24	5.40	75.46	5.40	13.72	9.00	3HRL1 (PS)
MIN.	MIN.	4.15	139.58	.00	-1.80	-3.43	-6.10	-13.72	-21.60	-3.43	-1.80	13.50 -.90
MEAN	MEAN	21.69	159.52	.00	45.00	178.36	66.60	356.72	194.40	185.22	45.00	66.60 .766
STDEV	STDEV	2.127	6.624	.0000	.704	7.590	.698	5.525	1.581	2.511	.615	
CH.	NAME	12	13	14	15	16	17	18	19	20	21	22
		3HPL2 (PS)	3HPL3 (PS)	3HPT1 (PS)	3HPT2 (PS)	4HPT3 (PS)	4HL1 (PS)	4HT1 (PS)	4HL2 (PS)	4HT2 (PS)	1V1 (PS)	1V2 (MS)
MAY.	MEAN	.00	7.20	.00	20.80	.00	75.46	5.40	65.17	.00	15P.27	.00
MIN.	MIN.	.00	-27.90	.00	-90	.00	-6.86	-38.70	-3.43	-.90	-65.17	.00
MEAN	MEAN	.00	206.70	.00	43.20	.00	243.53	185.40	185.22	112.50	1042.72	.00
STDEV	STDEV	.000	2.39	.000	.972	.000	3.362	1.652	2.756	.450	31.684	.000
CH.	NAME	23	24	25	26	27	28	29	30	31	32	33
		2V1 (MS)	2V2 (MS)	3V1 (MS)	3V2 (MS)	3V3 (MS)	3V4 (MS)	4V1 (MS)	4V2 (MS)	4V3 (MS)	4V4 (MS)	C1 (MS)
MAY.	MEAN	65.17	176.45	121.02	111.72	111.72	121.03	111.72	121.03	c3.10	t3.79	19.72
MIN.	MIN.	-176.49	-65.17	-55.86	-18.62	-18.62	-5.31	-37.24	-37.24	+16.62	+19.62	-25.52
MEAN	MEAN	1117.20	486.96	1219.61	966.86	1191.68	763.47	1061.34	1052.03	958.93	986.17	153.12
STDEV	STDEV	31.416	32.658	24.538	23.550	9.522	8.657	23.271	24.361	16.524	15.387	10.066
CH.	NAME	34	35	36	37	38	39	40	41	42	43	44
		L1	C2 (PS)	L1 (PS)	L1 (PS)	L1 (PS)	P1 (PSI)	P2 (PSI)	T0N5 +.14	T0N5 +.00	T0N5 +.00	A4
MAY.	MEAN	4.64	6.12	.00	13.72	17.15	.23	.14	.00	.00	.00	
MIN.	MIN.	-3.48	-6.56	.00	-17.15	-20.58	-.37	-.19	.00	.00	.00	
MEAN	MEAN	140.36	133.40	.00	4C4.74	432.1H	1.48	1.56	.00	.00	.00	
STDEV	STDEV	1.774	3.628	.000	4.508	5.323	.091	.047	.000	.000	.000	.000

SUMMARY OF STATISTICAL DATA FOR EG 25 - 2
 TIME IN 60 MINUTE INTERVALS FROM START OF TADF B2
 THE MEAN VALUES ON CHANNELS 3 THRU 64 HAVE NO DIRECT MEANING
 THESE MEAN V VALUES HAVE BEEN SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
 (MS) = MICRO - STRAINS

CH.	NAME	1	2	3	4	5	6	7	8	9	10	11
	(MS)	V1	V2	HTL1	HTL1	HTL1	HTL1	HTL1	HTL2	HTL2	HTL2	
	MAX.	2P.39	199.40	.00	2.70	51.45	4.50	17.15	4.50	13.72	(MS)	
	MIN.	16.59	.00	-.90	-.343	-.90	-9.00	-17.15	-24.30	-3.43	1.80	
	MEAN	20.74	159.52	.00	43.20	191.79	63.90	356.72	153.50	-9.0	-.50	
	STDEV	1.799	23.287	.000	.567	2.494	.686	4.671	1.597	185.22	44.10	
									2.247	.544	.462	
CH.	NAME	12	13	14	15	16	17	18	19	20	21	22
	(MS)	3HPL3	3HRT1	3HRT2	3HRT3	4HL1	4HT1	4HT2	4HT2	1V1	1V1	1V2
	MAX.	.00	6.30	.00	3.60	.00	13.72	5.40	61.74	1.30	135.65	(MS)
	MIN.	.00	-25.80	.00	-.90	.00	-6.66	-39.60	-3.43	.00	-55.36	.00
	MEAN	.00	209.70	.00	41.44	.00	246.96	164.50	188.65	111.60	1042.72	.00
	STDEV	.000	1.430	.000	.552	.000	2.354	1.715	3.617	.450	28.675	.000
CH.	NAME	23	24	25	26	27	28	29	30	31	32	33
	(MS)	V1	V2	AV1	AV2	AV3	AV4	AV1	AV2	AV3	AV4	C1
	MAX.	55.85	130.24	102.41	83.79	121.03	121.03	(MS)	(MS)	(MS)	(MS)	(MS)
	MIN.	-112C.34	-65.17	-55.66	-65.17	-18.62	-18.62	130.34	130.34	111.72	93.10	6.46
	MEAN	1117.20	986.46	1219.61	996.17	1151.68	763.42	-37.24	-37.24	-18.62	-1h.62	-5.60
	STDEV	28.433	29.315	23.357	23.607	9.886	8.859	1070.65	1052.03	956.93	996.17	145.00
								22.157	23.653	16.265	14.866	3.260
CH.	NAME	34	35	36	37	38	39	40	41	42	43	44
	(MS)	C2	C3	L1	S1	S2	P1	P2	L1	A2	A3	A4
	MAX.	3.48	8.12	.00	13.72	17.15	.15	.10	.00	.00	.00	.00
	MIN.	-3.48	-5.80	.00	-13.72	-17.15	-.25	-.17	.00	.00	.00	.00
	MEAN	126.88	134.56	.000	404.74	432.18	1.48	1.56	.000	.00	.00	.00
	STDEV	1.674	3.920	.000	6.325	5.211	.075	.036	.000	.000	.000	.000

SUMMARY OF STATISTICAL DATA FOR FC 25 - 3
TIME IN 60 MINUTE INTERVALS FROM START OF TAPP⁸⁴
THE MEAN VALUES ON CHANNELS 3 THRU 44 HAVE NO DIRECT MEANING
THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
(μS) = MICRO - STRAINS

CH.	NAME	1	2	3	4	5	6	7	8	9	10	11
	NAME	W1	W2	2HL1	2HT1	3HL1	3HT1	3HL2	3HT2	3HL1	3HT2	3HL1
	MEAN	(μS)	(μS)	(μS)	(μS)	(μS)	(μS)	(μS)	(μS)	(μS)	(μS)	(μS)
	MAX.	30.94	200.37	.00	4.50	90.47	2.70	34.30	5.40	17.15	3.60	23.50
	MIN.	16.27	.00	.00	-.90	-3.43	-.9.10	-13.72	-22.50	-3.43	-.90	-.80
	MEAN	22.01	170.46	.00	40.50	105.22	61.20	349.86	152.60	125.22	43.20	64.80
	STDEV	2.73A	16.380	.00C	.759	5.485	.689	4.669	1.582	2.051	.634	1.056
CH.	NAME	12	13	14	15	16	17	18	19	20	21	22
	NAME	3HRL2	3HRL3	3HRL1	3HPT2	3HPT3	4FL1	4HT1	4HL2	4HT2	1V1	1V2
	MEAN	(μS)	(μS)	(μS)	(μS)	(μS)	(μS)	(μS)	(μS)	(μS)	(μS)	(μS)
	MAX.	*.00	6.30	.00	4.50	*.00	5E.31	6.30	65.60	*.90	204.82	*.00
	MIN.	*.00	-27.00	.00	-.90	*.00	-6.66	-36.90	-3.43	-.90	-65.17	*.00
	MEAN	*.00	208.80	.00	36.90	*.00	246.96	183.60	168.65	111.60	1042.72	*.00
	STDEV	*.00C	1.897	.000	.634	*.000	4.073	1.674	5.C64	*.373	37.966	*.00C
CH.	NAME	23	24	25	26	27	28	29	30	31	32	33
	NAME	2V1	2V2	3V1	3V2	3V3	3V4	4V1	4V2	4V3	4V4	C1
	MEAN	(μS)	(μS)	(μS)	(μS)	(μS)	(μS)	(μS)	(μS)	(μS)	(μS)	(μS)
	MAX.	74.48	214.13	214.13	204.82	204.82	223.44	223.44	153.27	15F.27	5.80	
	MIN.	-232.75	-74.48	-65.17	-55.86	-27.93	-27.93	-55.86	-55.86	-27.93	-27.93	-5.80
	MEAN	1117.20	586.86	1219.61	986.86	1191.68	763.42	1070.65	1052.03	958.93	996.17	141.52
	STDEV	3E.744	39.651	33.846	33.414	11A.208	17.273	33.122	33.299	22.637	21.660	3.396
CH.	NAME	34	35	36	37	38	39	40	41	42	43	44
	NAME	(μS)	(μS)	(μS)	(μS)	(μS)	(μS)	(μS)	(μS)	(μS)	(μS)	(μS)
	MAX.	2.48	6.56	*.00	20.58	20.58	*.21	*.17	*.00	*.00	TONS	A4
	MIN.	-4.64	-6.56	*.00	-20.58	-37.73	-.33	-.18	*.00	*.00	*.00	*.00
	MEAN	12E.04	131.06	.00C	4C4.74	432.18	1.49	1.56	*.00	*.00	*.00	*.00
	STDEV	1.560	4.076	*.000	5.0C3	7.452	*.055	.046	*.000	*.000	*.000	*.000

SUMMARY OF STATISTICAL DATA FOR EG 25 - 4
TIME IN 60 MINUTE INTERVALS FROM START OF TAPE
THE MEAN VALUES ON CHANNELS 3 THRU 44 HAVE NO DIRECT MEANING
THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
(WS) = MICRO - STRAINS

CH.	NAME	1	2	3	4	5	6	7	8	9	10	11
		V1	W2	REG.	1HRL1 (MS)	1HRL1 (MS)	2HRL1 (MS)	3HRL1 (MS)	3HRL1 (MS)	3HT2 (MS)	3HT2 (MS)	
MAY.	31.5A	1.95.40	.00	.00	4.50	92.61	3.60	48.02	4.50	17.15	4.50	
HIN.	1E.82	69.79	.00	-1.EC	-3.43	-5.CC	-17.15	-25.20	-3.43	-1.80	-5.0	
MEAN	26.16	169.49	.00	3E.70	181.79	57.60	329.57	191.70	165.22	63.20	62.10	
SDEV	2.397	8.074	.000	6.02	6.04	.723	5.033	1.561	3.214	.694	2.160	
CH.	NAME	12	13	14	15	16	17	18	19	20	21	22
		3HRL2 (MS)	3HRL2 (MS)	3HRL2 (MS)	3HRL2 (MS)	3HRL2 (MS)	4HRL1 (MS)	4HRL1 (MS)	4HRL1 (MS)	4HT2 (MS)	4HT2 (MS)	IV2 (MS)
MAY.	.00	.00	7.2C	*UC	5.4C	.00	102.90	18.00	123.48	.90	260.6A	*CO
HIN.	.00	-30.60	*OC	-1.60	.00	-6.66	-40.50	-3.43	-6.60	-A3.79	*CC	.00
MEAN	.00	207.90	.00	23.30	.00	250.39	1E.70	16E.65	111.6C	103.341	.00	.000
SDEV	.000	1.936	.0000	.551	.000	5.477	1.767	7.785	.474	41.226	.000	.000
CH.	NAME	23	24	25	26	27	28	29	30	31	32	33
		2V1 (MS)	2V2 (MS)	3V1 (MS)	3V2 (MS)	3V3 (MS)	3V4 (MS)	4V1 (MS)	4V2 (MS)	4V3 (MS)	4V4 (MS)	C1 (MS)
MAY.	74.48	297.92	2EF.61	2FF.61	223.44	214.13	251.37	195.51	176.89	8.12		
HIN.	-2F9.61	-74.48	-55.85	-55.86	-37.24	-37.24	-74.48	-46.55	-55.86	-5.80		
MEAN	1117.20	977.55	1210.3C	966.6F6	1191.6A	772.73	1061.34	1052.03	95R.93	1005.48	135.72	
SDEV	40.024	42.029	36.466	36.232	20.123	19.541	33.232	34.012	23.298	22.2FG	3.378	
CH.	NAME	24	35	36	37	38	39	40	41	42	43	44
		F2 (PSI)	C3 (MS)	L1 (MS)	S1 (MS)	S2 (MS)	P1 (PSI)	P2 (PSI)	A1 TONS	A2 TONS	TONS	TONS
MAY.	4.64	0.2P	.00	17.15	.25	.19	.00	.00	.00	.00	.00	.00
HIN.	-3.48	-6.96	.00	-20.87	-51.45	-41	-23	.00	.00	.00	.00	.00
MEAN	13C.20	135.72	.00	40E.17	432.1A	1.50	1.57	.00	.00	.00	.00	.00
SDEV	1.441	4.11C	.000	6.527	7.971	.004	.004	.004	.0051	.000	.000	.000

SUMMARY OF STATISTICAL DATA FOR FIG 25 - 5
 TIME IN 60 MINUTE INTERVALS FROM START OF TAPE 86
 THE MEAN VALUES ON CHANNELS 3 THROUGH 44 HAVE NO DIRECT MEANING
 THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
 (PS) = MIXED - STRENS

CH.	NAME	1	2	3	4	5	6	7	8	9	10	11
	W1	.02	1HLL1 (MS)	1HT1 (MS)	2HLL1 (MS)	3HLL1 (MS)	3HL2 (PS)	3HT2 (MS)	3HLL1 (MS)	3HL2 (PS)	3HT2 (MS)	3HLL1 (MS)
	MAY.	27.64	209.37	.00	14.40	506.21	16.50	343.00	24.30	56.04	27.00	114.30
	MIN.	21.05	.00	-2.70	-41.16	-2.70	-24.01	-5.40	-10.29	-3.60	-5.40	
	MEAN	26.35	162.46	.00	3P.70	219.52	56.70	343.00	162.60	192.00	45.50	64.00
	STDEV	3.739	26.372	.000	2.394	77.319	2.661	33.137	2.669	13.263	3.305	12.936
CH.	NAME	12	13	14	15	16	17	18	19	20	21	22
	24P12	3HSL3 (MS)	3HGT1 (MS)	3HDT2 (MS)	3HRT3 (MS)	4HLL1 (MS)	4HT1 (MS)	4HL2 (MS)	4HT2 (MS)	4V1 (MS)	1V1 (MS)	1V2 (MS)
	MAY.	.00	24.30	.00	63.00	*.00	418.46	27.50	360.15	1.80	763.42	.00
	MIN.	.00	-205.20	.00	-31.50	*.00	-30.17	-5.40	-27.44	-.90	-176.89	.00
	MEAN	*.00	205.20	.00	35.10	*.00	274.40	184.50	209.23	110.70	1042.72	.00
	STDEV	.000	24.322	.000	4.824	.000	55.765	3.108	50.232	.367	111.636	.000
CH.	NAME	23	24	25	26	27	28	29	30	31	32	33
	2V1	2V2 (MS)	3V1 (MS)	2V2 (MS)	3V3 (MS)	3V4 (MS)	4V1 (MS)	4V2 (MS)	4V3 (MS)	4V4 (MS)	4V4 (MS)	C1 (MS)
	MAY.	135.65	186.53	530.67	512.05	325.65	316.54	429.26	428.26	372.40	344.47	12.76
	MIN.	-577.22	-158.27	-130.34	-130.65	-46.55	-55.86	-148.56	-121.03	-121.03	-111.72	-15.06
	MEAN	2107.29	986.86	1226.42	1005.46	1200.59	782.04	1070.56	1061.34	1061.34	1065.46	154.28
	STDEV	213.795	114.885	93.528	92.905	50.437	45.039	91.247	92.297	56.153	52.298	3.627
CH.	NAME	34	35	36	37	3F	38	40	41	42	43	44
	(PS)	(PS)	(PS)	L1	S1	C2 (MS)	P1 (PSI)	P2 (PSI)	A1 TOKS	A2 TCNS	A3 TONS	A4 TONS
	MAY.	9.29	16.24	.00	17.15	96.04	.32	.33	.00	.00	.00	.00
	MIN.	-10.44	-15.08	.00	-51.45	-C2.61	-4.47	-6.8	.00	.00	.00	.00
	MEAN	133.40	132.24	.00	4CP.17	437.18	1.49	1.57	.00	.00	.00	.00
	STDEV	2.409	4.547	.000	12.122	22.747	.120	.136	.000	.000	.000	.000

SUMMARY OF STATISTICAL DATA FOR EG 25 - 6
TIME IN 60 MINUTE INTERVALS FROM START OF TAPP 87
THE MEAN VALUES ON CHANNELS 3 THRU 44 HAVE NO DIRECT MEANING
THESE MEAN VALUES HAVE BEEN SURFACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
(MS) = MICRO - STRAINS

CH. NAME	1 (MS)	2 (MS)	3 (MS)	4 (MS)	5 (MS)	6 (MS)	7 (MS)	8 (MS)	9 (MS)	10 (MS)	11 (MS)
MAX.	29.03	179.46	.00	0.00	391.02	15.30	222.65	15.30	F2.32	16.00	76.50
MIN.	17.86	5.97	.00	-1.00	-11.72	-6.10	-13.72	-25.20	-3.43	-1.86	-1.60
MEAN	23.61	159.52	.00C	27.00	192.06	54.90	329.78	190.80	1.65.22	43.20	61.20
STDEV	2.00C7	14.171	.000	1.560	35.029	1.308	12.417	1.660	6.627	1.735	5.332
CH. NAME	12 (MS)	13 (MS)	14 (MS)	15 (MS)	16 (MS)	17 (MS)	18 (MS)	19 (MS)	20 (MS)	21 (MS)	22 (MS)
MAX.	.00	19.60	.00	24.20	.00	346.43	21.60	246.66	.90	437.57	.00
MIN.	.00	-149.80	.00C	-4.55	.00	-13.72	-41.40	-10.29	-.00	-151.27	.00
MEAN	.00	205.20	.00C	35.10	.00	250.35	153.60	162.00	110.70	163.61	.00
STDEV	.100	6.541	.00C	2.631	.00C	25.522	2.078	21.341	.662	72.538	.00C0
CH. NAME	23 (MS)	24 (MS)	25 (MS)	26 (MS)	27 (MS)	28 (MS)	29 (MS)	30 (MS)	31 (MS)	32 (MS)	33 (MS)
MAX.	2V1 (MS)	2V2 (MS)	3V1 (MS)	3V2 (MS)	3V3 (MS)	3V4 (MS)	4V1 (MS)	4V2 (MS)	4V3 (MS)	4V4 (MS)	C1 (MS)
MIN.	1C2.41	411.55	400.32	400.06	242.06	307.23	297.62	232.75	223.44	10.44	
MEAN	-41P.65	-111.72	-93.10	-63.10	-46.55	-37.24	-130.34	-102.41	-55.86	-46.55	-6.96
STDEV	1117.20	977.55	1212.61	1200.99	772.73	1070.65	1052.03	968.24	150.60	150.17	
CH. NAME	34 (MS)	35 (MS)	36 (MS)	37 (MS)	38 (MS)	39 (MS)	40 (MS)	41 (MS)	42 (MS)	43 (MS)	44 (MS)
MAX.	4.64	12.76	.00C	13.72	6K.60	.37	.30	.00	.00	.00	.00
MIN.	-5.90	-16.24	.00	-41.16	-75.46	-.59	-.46	.00	.00	.00	.00
MEAN	135.72	142.68	.00C	411.60	432.18	1.50	1.57	.00	.00	.00	.00
STDEV	1.949	3.656	.00C	5.324	14.350	.105	.104	.00	.00	.00	.00C0

SUMMARY OF STATISTICAL DATA FOR FC 25 - 7
 TIME IN 60 MINUTE INTERVALS FROM START OF TAPE 148
 THE MEAN VALUES ON CHANNELS 3 THRU 44 HAVE NO DIRECT MEANING
 THESE MEAN VALUES WRITE EFFECT CHARACTER FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
 (MS) = MICRO - STRAINS

CH#	NAME	1	2	3	4	5	6	7	8	9	10	11
	NAME	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
	MAX.	35.41	199.60	.00	17.10	92.61	21.60	150.52	6.30	17.15	23.40	34.70
	MIN.	16.27	.00	.00	-50	-3.43	-6.90	-13.72	-17.10	-3.43	-50	-90
	MEAN	23.29	120.61	.00	44.10	178.36	66.60	356.72	195.30	165.2	45.90	64.60
	STDEV	3.625	44.407	.000	.736	5.069	.962	6.011	1.065	2.528	.560	1.345
CH#	NAME	12	13	14	15	16	17	18	19	20	21	22
	NAME	3HBL2	3HBL3	3HBT1	3HBT2	3HBT3	4HBT1	4HBT2	4HBT3	4H12	4H12	IV2
	MAX.	.00	.00	.00	42.20	.00	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
	MIN.	.00	.00	.00	-1.50	.00	-6.86	-17.30	-3.43	.90	176.89	.00
	MEAN	.00	207.90	.00	1C.60	.00	240.10	165.40	101.76	-90	-95.36	.00
	STDEV	.000	2.089	.000	1.563	.000	8.504	4.341	7.770	.422	1033.41	.000
CH#	NAME	23	24	25	26	27	28	29	30	31	32	33
	NAME	2V1	2V2	3V1	3V2	3V3	3V4	4V1	4V2	4V3	4V4	C1
	MAX.	55.86	267.50	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
	MIN.	-15n.27	-65.17	111.72	102.41	111.72	102.41	176.69	176.89	146.96	121.03	6.56
	MEAN	1126.51	977.55	1210.30	-55.46	-55.86	-27.93	-37.24	-27.93	-27.93	-6.62	-6.56
	STDEV	26.046	26.677	21.906	1191.68	763.42	1061.34	1042.72	968.24	996.17	154.2t	3.291
CH#	NAME	34	35	36	37	38	39	40	41	42	43	44
	NAME	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(PSI)	(PSI)	TONS	TONS	TONS
	MAX.	11.60	9.26	.00	13.72	17.15	.21	.14	.00	.00	.00	.00
	MIN.	-8.12	-6.56	.00	-17.15	-20.58	-.41	-.22	.00	.00	.00	.00
	MEAN	129.02	138.04	.000	40.17	432.18	1.52	1.42	.00	.00	.00	.00
	STDEV	3.006	3.950	.000	4.029	4.074	.094	.044	.000	.000	.000	.000

SUMMARY OF STATISTICAL DATA FOR EG 25 - 8
 TIME IN 6 MINUTE INTERVALS FROM START OF TAPE 163
 THE MEAN VALUES IN CHANNELS 3 THRU 44 WAVE NOT DIRECT MEANING
 THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
 (INST = MICRO - SIGNALS)

CH ₀	NAME	1	2	3	4	5	6	7	8	9	10	11
	(HCH)	W1	W2	1HL1	1HT1	2HL1	2HT1	3HL1	3HT1	3HL2	3HT2	3HFL1
MAY.	2G,99	1G,40	.(Hc)	(Hc)	(Hc)	(Hc)	(Hc)	(Hc)	(Hc)	(Hc)	(Hc)	(Hc)
MIN.	17,66	CO	.00	5,40	5,40	17,15	4,50	-F,10	-17,15	6,30	17,15	5,40
MEAN	24,PA	17,46	.00	-1,80	-6,66	-6,66	-F,10	-17,15	-23,40	-3,43	-3,43	-6,60
STEVE	2,115	16,530	.000	30,60	1P5,22	62,10	356,72	163,50	185,22	44,10	44,10	64,60
				.574	1,601	.621	5,224	1,740	2,468	.623	.623	.716
CH ₀	NAME	12	13	14	15	16	17	18	19	20	21	22
	(HS1)	3HP13	3HP11	3HP12	3HP13	4HL1	4HL1	4HL2	4HL2	4HT2	4V1	4V2
MAD.	.00	7,20	.00	.00	.00	(Hc)	(Hc)	(Hc)	(Hc)	(PS)	(MS)	(MS)
P1A.	.CO	-24,80	.00	-CO	-CO	418,46	40,50	397,88	1,80	135,65	.00	.00
ME2N	.00	20,50	.00	13,50	.00	-10,29	-162,70	-6,66	109,65	-46,55	.00	.00
STCFV	.000	2,044	.000	.58C	.CCC	250,39	182,70	108,65	103,61	103,61	.00	.00
						24,013	10,462	23,651	.67	27,842	.000	.000
CH ₀	NAME	23	24	25	26	27	28	29	30	31	32	33
	(PS)	2V1	2V2	3V1	3V2	3V3	3V4	4V1	4V2	4V3	4V4	4V5
MAY.	65,17	14G,96	93,10	111,72	65,17	(Hc)	(Hc)	(Hc)	(Hc)	(PS)	(MS)	(MS)
MIN.	-13,9,65	-74,4A	-55,86	-55,86	-16,62	65,17	111,72	121,03	63,79	65,17	12,76	12,76
MEAN	111,7,20	586,FA	1219,61	560,P6	1191,68	-13,62	-77,63	-27,93	-18,62	-18,62	-5,60	-5,60
STEVE	24,674	29,731	20,715	2C,267	8,168	763,42	1061,34	1042,72	558,93	558,93	138,04	138,04
						8,043	19,661	20,373	14,330	12,395	3,117	3,117
CH ₀	NAME	34	35	36	37	38	39	40	41	42	43	44
	(PS)	C2	C3	L1	*1	P2	P1	A1	A2	A3	TUNs	TUNs
MAY.	4,64	10,44	.00	(PS)	(PS)	(PS)	(PS)	TUNs	TUNs	TUNs	TUNs	TUNs
MIN.	-10,44	-6,66	.0C	17,15	-13,72	-20,58	*19	.12	*00	*00	*00	*00
MEAN	13,04	131,0H	.0C	46,74	432,18	1,53	*30	*21	*00	*00	*00	*00
STEVE	1,635	3,773	.000C	4,276	4,076	1,61	1,61	*CC	*00	*00	*00	*00
									.000	.000	.000	.000

SUMMARY OF STATISTICAL DATA FOR FIG 25 - 9
TIME IN 60' MINUTE INTERVALS FROM STAFF FF TADP 154
THE MEAN VALUES ON CHANNELS 3 THRU 44 HAVE NO DIRECT MEANING
THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE PIV. AND MAX. VALUES FOR THESE CHANNELS
(MS) = MEAN - STRAINS

CH.	NAME	1	2	3	4	5	6	7	8	9	10	11
NMPF	b1	V2	1H1	1H1	2H1	3H1	3H1	3H1	2H2	3H2	3H2	3H2
	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
MAY.	2G.31	219.34	.00	2.70	4.59	1.60	17.15	6.30	13.72	2.70	5.40	
MIN.	15.31	39.68	.00	-.40	-3.43	-.90	-17.15	-25.20	-3.43	-.30	-.40	
MEAN	22.65	119.43	.00	37.50	185.22	59.40	346.43	192.60	185.22	44.10	62.10	
STDEV	2.119	13.649	.000	.719	2.684	.661	4.916	1.118	2.649	.572	.464	
CH.	NAME	12	13	14	15	16	17	18	19	20	21	22
NMPF	3HFL2	3HFL3	3HFT1	3HFT2	3HFL1	4HFT1	4HFL2	4HT2	1V1	1V2	1V1	1V2
	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
P11.	.00	.010	.000	1.60	.00	52.61	11.70	133.77	1.60	134.65	.00	
MIN.	.00	-27.90	.000	-1.80	.00	-6.86	-39.60	-3.43	.90	-6.55	.00	
MEAN	.00	207.90	.000	12.60	.00	246.96	181.60	165.22	103.30	103.41	.00	
STDEV	.000	2.180	.0000	.543	.000	6.203	1.662	5.357	.926	26.351	.000	
CH.	NAME	23	24	25	26	27	28	29	30	31	32	33
NMPF	2V1	2V2	2V1	2V2	2V3	3V4	4V1	4V2	4V3	4V4	C1	C1
	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
MAY.	55.86	148.96	121.03	111.72	93.10	93.10	121.03	121.03	111.72	13.10	6.96	
MIN.	-121.03	-55.66	-46.55	-55.66	-27.93	-16.62	-27.93	-27.93	-16.62	-27.93	-4.64	
MEAN	1126.51	477.55	1210.30	446.86	1141.68	763.42	1061.34	1042.72	954.93	1005.46	134.56	
STDEV	25.243	25.201	22.416	22.175	J.C.265	9.745	20.622	21.137	15.804	14.805	3.083	
CH.	NAME	34	35	36	37	38	39	40	41	42	43	44
NMPF	c2	c3	L1	L1	L1	P1	P2	A1	A2	A3	A4	A4
	(MS)	(MS)	(MS)	(MS)	(MS)	(PSI)	(PSI)	TONS	TONS	TONS	TONS	TONS
MAY.	10.44	6.12	.00	17.15	.00	.22	.14	.00	.00	.00	.00	
MIN.	-3.44	-11.60	.00	-13.72	-20.58	-.47	-.22	.00	.00	.00	.00	
MEAN	129.92	138.04	.00	404.74	432.18	1.65	1.60	.00	.00	.00	.00	
STDEV	1.581	.3.667	.000	4.265	5.156	.090	.042	.000	.000	.000	.000	

SUMMARY OF STATISTICAL DATA FOR FG 25 - 10
TIME IN 60 MINUTE INTERVALS FROM START OF TAPF 14
THE MEAN VALUES ON CHANNELS 3 THRU 44 HAVE NOT DIRECT MEANING
THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
(MS) = MICRO - STRAINS

CH.	1	2	3	4	5	6	7	8	9	10	11
NAME	6.1	4.2	1HLL1 (MS)	1HT1 (MS)	2HL1 (MS)	2HT1 (MS)	3HL1 (MS)	3HT1 (MS)	3HL2 (MS)	3HT2 (MS)	3HCL1 (MS)
MAX.	33.49	169.40	.00	106.86	.90.47	17.10	137.20	7.20	17.15	3F.00	30.60
MIN.	10.45	109.67	.00	-1.76	-3.43	-9.90	-20.58	-26.10	-3.43	-.90	-3.60
MEAN	22.65	159.52	.00	44.10	176.36	46.60	353.29	161.70	185.22	45.00	63.96
STDEV	2.363	3.269	.000	1.399	6.447	.798	6.460	1.641	2.673	.911	1.527
CH.	12	13	14	15	16	17	18	19	20	21	22
NAME	3HFL2 (MS)	3HRL3 (MS)	3HQTL1 (MS)	3HPT2 (MS)	4HL1 (MS)	4HT1 (MS)	4HL2 (MS)	4HT2 (MS)	4H12 (MS)	4V1 (MS)	4V2 (MS)
MAX.	*.00	15.50	*.00	51.30	*.00	113.19	22.50	160.65	1.60	232.75	*.00
MIN.	*.00	-34.20	*.00	-1.80	*.00	-6.86	-41.40	-6.86	-.90	-55.96	*.00
MEAN	*.00	205.20	*.00	41.40	*.00	236.67	192.60	185.22	1C8.90	1033.41	*.00
STDEV	*.000	2.049	*.000	1.721	*.000	5.165	1.609	6.452	*.450	36.408	*.000
CH.	23	24	25	26	27	28	29	30	31	32	33
NAME	2V1 (MS)	2V2 (MS)	2V1 (MS)	2V2 (MS)	3V3 (MS)	3V4 (MS)	4V1 (MS)	4V2 (MS)	4V3 (MS)	4V4 (MS)	C1 (MS)
MAX.	65.17	279.36	195.51	139.65	139.65	176.69	176.69	130.34	111.72	6.96	
MIN.	-251.37	-65.17	-46.55	-18.62	-18.62	-46.55	-46.55	-27.93	-27.93	-6.56	
MEAN	1126.51	964.24	1210.30	977.55	1101.68	754.11	1061.34	1042.72	966.24	996.17	139.20
STDEV	35.466	40.935	30.170	30.780	14.689	14.682	27.042	29.508	21.365	15.606	3.448
CH.	34	35	36	37	38	39	40	41	42	43	44
NAME	12 (MS)	13 (MS)	11 (MS)	11 (MS)	12 (MS)	P1 (PSI)	P2 (PSI)	A1 TONS	A2 TONS	A3 TONS	A4 TONS
MAX.	4.64	12.76	*.00	13.72	20.58	*.23	*.22	*.00	*.00	*.00	*.00
MIN.	-16.24	-6.96	*.00	-34.35	-37.73	-.50	-.32	*.00	*.00	*.00	*.00
MEAN	131.C2	132.24	*.00	411.60	432.18	1.61	1.67	*.00	*.00	*.00	*.00
STDEV	3.578	4.155	*.000	5.560	6.573	*.101	*.057	*.000	*.000	*.000	*.000

SUMMARY OF STATISTICAL DATA FOR FG 25 - 11
 TIME IN 6F MINUTE INTERVALS FROM START TO TAPE 19
 THE MEAN VALUES ON CHANNELS 3 THRU 44 HAVE NO DIRECT MEANING
 THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
 (MS) = MICRO - STRAINS

CH.	NAME	1	2	3	4	5	6	7	8	9	10	11
	(MS)	b1	w2	1HLL1 (MS)	1WT1 (MS)	2HLL1 (MS)	2WT1 (MS)	3HLL1 (MS)	3WT1 (MS)	3HL2 (MS)	3HKL1 (MS)	
MAX.		2e-6.7	1e-6.40	.00	1.50	.50	2.70	13.72	5.40	2.70	4.50	
MIN.		16.59	14.60	.00	-3.60	.00	-10.60	-17.15	-21.60	-3.43	-2.70	
MEAN		21.37	14.55	.00	4.60	174.93	53.10	193.50	165.22	46.80	65.76	
STDEV		2.185	3.0224	.000C	.643	2.741	.0881	4.713	1.672	2.565	.623	
CH.	NAME	12	13	14	15	16	17	18	19	20	21	22
	(MS)	3HPL2 (MS)	34HL3 (MS)	3WP1 (MS)	3WT2 (MS)	4HPL3 (MS)	4HT1 (MS)	4HL2 (MS)	4HT2 (MS)	4V1 (MS)	4V2 (MS)	
MAX.		.00	7.20	.00	1.50	.00	6.86	6.30	30.67	1.80	130.34	
MIN.		.00	-2e-7.0	.00	-5.10	.00	-6.86	-27.60	.00	.00	-46.55	
MEAN		.00	207.00	.00	4R.60	.00	240.10	195.30	181.70	10e-50	1033.41	
STDEV		.000	2.057	.000C	1.041	.000	2.353	1.871	1.683	.45L	24.674	
CH.	NAME	23	24	25	26	27	28	29	30	31	32	33
	(MS)	2V1 (MS)	2V2 (MS)	2V1 (MS)	2V2 (MS)	3V3 (MS)	3V4 (MS)	4V1 (MS)	4V2 (MS)	4V3 (MS)	4V4 (MS)	C1 (MS)
MAX.		55.86	13C.34	121.63	121.03	121.03	130.34	102.41	102.41	111.72	93.10	6.66
MIN.		-111.72	-65.17	-46.55	-18.62	-55.06	-5.31	-27.93	-37.24	-27.93	-1e-62	-3.028
MEAN		1126.51	677.55	1210.30	1191.66	1210.30	754.21	1052.03	1042.72	968.24	996.17	143.64
STDEV		23.035	27.526	21.726	21.433	21.433	6.2221	17.5E2	20.338	17.212	10.464	3.422
CH.	NAME	24	25	26	27	28	29	30	31	32	33	44
	(MS)	r2	c3	l1	s1	p1	p2	a1	a2	a3	a4	TENS
MAX.		4.64	9.28	.00	17.15	13.72	.25	.11	.00	.00	.00	.00
MIN.		-13.92	-12.76	.00	-13.72	-24.61	-.46	-.19	.00	.00	.00	.00
MEAN		122.24	140.36	.00	40A.17	432.18	1.60	1.67	.00	.00	.00	.00
STDEV		2.166	4.104	.000	4.00c2	4.0e52	.078	.040	.000	.000	.000	.000

SUMMARY OF STATISTICAL DATA FOR FG 25 - 12
 TIME IN 60 MINUTE INTERVALS FROM START OF TEST 20
 THE MEAN VALUES ON CHANNELS 3 THRU 44 HS VF NO DIRECT MEANING
 THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
 (MS) = MICRO - STRAINS

CH.	NAME	1	2	3	4	5	6	7	8	9	10	11
	NAME	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
MAX.	35.41	199.40	.00	.00	336.14	12.60	336.14	16.90	42.32	21.60	112.50	348.11
MIN.	21.05	9.97	.00	.00	-2.70	-24.01	-11.70	-17.15	-1.60	-6.86	-2.70	248.11
MEAN	2F.77	159.52	.00	.00	168.54	54.90	367.01	104.40	18t.65	5H.60	-2.60	248.11
STDEV	2.930	25.039	.000	1.766	47.670	1.755	19.580	2.048	9.379	2.181	67.50	248.11
	NAME	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
MAX.	.00	22.50	.00	.00	50.40	.00	404.74	30.60	343.00	.90	512.05	1V2
MIN.	.00	-206.10	.00	.00	-2.70	.00	-17.15	-34.20	-13.72	.00	-16.60	(MS)
MEAN	.00	207.00	.00	.00	49.50	.00	253.82	195.30	192.08	106.90	1C52.03	.00
STDEV	.000	10.712	.006	3.163	.000	36.613	2.434	29.403	.437	.02.610	.000	.000
	NAME	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
MAX.	348.12	348.13	348.11	348.12	348.13	348.11	4H12	4H12	4H12	4H12	71	22
MIN.	.00	22.50	.00	.00	50.40	.00	404.74	30.60	343.00	.90	512.05	1V1
MEAN	.00	206.10	.00	.00	-2.70	.00	-17.15	-34.20	-13.72	.00	-16.60	(MS)
STDEV	.000	10.712	.006	3.163	.000	36.613	2.434	29.403	.437	.02.610	.000	.000
	NAME	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
MAX.	140.96	530.67	424.26	4CC.64	242.66	242.66	400.33	391.02	267.92	268.61	16.24	C1
MIN.	-54C.29	-176.09	-93.10	-111.72	-46.55	-46.55	-130.34	-111.72	-102.41	-93.10	-9.2	(MS)
MEAN	10CC.58	566.17	1216.61	446.17	1200.69	772.73	1079.56	1061.34	966.24	956.17	141.52	C1
STDEV	66.023	97.363	73.465	73.355	36.259	36.179	71.756	72.656	45.144	38.404	3.369	
	NAME	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
MAX.	10.44	17.44	.00	.00	20.58	65.17	.32	.25	.00	.00	.00	A4
MIN.	-9.28	-11.60	.00	.00	-36.30	-7H.69	-.50	-4.46	.00	.00	.00	TONS
MEAN	175.29	136.88	.00	.00	4CF.17	432.18	1.57	1.64	.00	.00	.00	TONS
STDEV	2.521	4.446	.000	1C.521	16.785	.014	.000	.000	.000	.000	.000	

SUMMARY OF STATISTICAL DATA FIG 26 - 1
TYPE IN 60 MINUTE INTERVALS FROM START TO TAPF
THE MEAN VALUES ON CHANNELS 3 THRU 42 HAVE NON DIRECT MEANING
THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
(MS) = MTCPC - SPAIN

CH.	NAME	1	2	3	4	5	6	7	8	9	10	11
	(MS)	61	62	1HLL1	1HT1	2HLL1	3HLL1	3HL2	3HT2	3HSL1	3HSL1	(MS)
MAY.	21.54	1HCL1	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	
MIN.	17.06	205.9C	7.20	133.77	16.20	130.34	7.20	-27.50	30.87	16.20	31.50	
MFAN	24.88	-24.01	-1.60	-3.43	-6.9C	-20.58	-27.50	-3.43	-3.43	-1.60	-1.60	
STDEV	2.634	15.143	23.406	1.40	1.40	2.62	177.30	165.22	4.50	35.70	4.50	
							1.415	3.397	.463	2.406		
CH.	NAME	12	13	14	15	16	17	18	19	20	21	22
	(MS)	3HFL3	3HPT1	3HFT2	4HPT3	4HLL1	4HT1	4H12	4HT2	4V1	4V2	
MAY.	.00	15.30	36.00	27.00	17.36	9.00	120.05	.90	260.68	(MS)	(MS)	
MIN.	.00	-34.20	-6.3C	-1.40	-3.60	-1C.29	-43.20	-6.46	-6.46	-3.79	.00	
MFAN	.00	191.70	72.00	61.20	6.00	240.10	169.20	1F5.22	6b.40	103.3.41	.00	
STDEV	.000	2.276	1.614	1.672	1.672	10.747	1.924	F.37C	.405	35.6.66	.000	
CH.	NAME	23	24	25	26	27	28	29	30	31	32	33
	(MS)	2V1	2V2	3V1	3V2	3V3	3V4	4V1	4V2	4V3	4V4	C1
MAY.	.00	251.37	232.75	242.06	176.80	176.49	204.82	204.82	176.49	155.27	25.52	(MS)
MIN.	.00	-65.17	-55.46	-65.17	-37.24	-16.62	-55.66	-65.17	-37.24	-27.93	-20.88	
MFAN	.00	577.55	1210.3C	966.96	1101.68	763.42	1061.34	1052.03	968.24	996.17	145.64	
STDEV	.000	43.247	3P.471	40.175	20.065	20.647	34.510	36.471	27.337	20.558	12.750	
CH.	NAME	34	35	36	37	38	39	40	41	42	43	44
	(MS)	62	63	L1	61	P1	P2	P1	A1	A2	A3	
MAY.	4.64	6.2A	.00	17.15	17.15	(PSI)	(PSI)	TENS	TENS	TENS	TENS	
MIN.	-5.40	-8.12	.00	-27.44	-44.59	.25	.18	.00	.00	.00	.00	
MFAN	126.44	129.92	.00	4C6.17	432.18	.46	.40	.00	.00	.00	.00	
STDEV	2.051	3.064	.000	6.563	8.594	1.59	1.63	.064	.000	.000	.000	

SUMMARY OF STATISTICAL DATA FOR
THE TN 6 MINUTE INTERVALS FROM START OF TAPF - 2
THE MEAN VALUES ON CHANNELS 3 THRU 44 HAVE NO DIRECT MEANING
THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
(MCS) = MICRO - STRAINS

CH ^o	NAME	1	2	3	4	5	6	7	8	9	10	11
	(MPH)	V1	V2	1HL1	1HT1	2HL1	3HL1	3HT1	3HL2	3HT2	3HL2	3HT1
PER.		31.26	145.43	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
H1A.		17.36	92.73	298.41	6.60	192.08	7.20	133.77	10.80	54.88	12.60	51.30
MEAN		25.52	169.49	-27.64	-1.80	-10.26	-4.00	-27.44	-37.40	-6.66	-9.90	-1.60
STDEV		2.445	7.656	524.74	158.64	30.60	23.548	23.548	175.50	185.22	46.50	36.50
				1.274	0.937	0.937	0.937	1.611	5.259	1.273	4.316	
CH ^o	NAME	12	13	14	15	16	17	18	19	20	21	22
	3RQL2	3HBL2	3HBT1	3HBT2	2HBT3	4HL1	4HL1	4HL2	4HT2	4V1	1V2	
HAY.	.00	111.90	44.10.	17.10	40.50	236.67	17.10	181.79	2.70	256.61	*00	(MS)
PIP.	*CO	-45.00	-4.50	-1.10	-5.40	-10.26	-49.50	-6.86	-1.80	-121.03	*00	
MEAN	.00	169.00	74.70	60.30	240.10	167.40	1F5.22	69.30	1C3.34			
STDEV	.000	2.454	2.574	1.292	2.828	20.069	1.981	15.063	.580	46.635	*000	
CH ^o	NAME	23	24	25	26	27	28	29	30	31	32	33
	2V1	2V2	3V1	3V2	3V3	3V4	4V1	4V2	4V3	4V4		
HAY.	(PS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	C1	
MIN.	.00	316.54	279.30	273.44	204.42	276.30	260.68	214.13	214.13	214.13		(MS)
MEAN	*CO	-91.10	-65.17	-74.48	-37.24	-74.48	-74.48	-55.66	-46.55	-46.55		
STDEV	*CO	977.55	1210.35	986.86	1191.68	772.73	1061.34	56E.24	936.17	936.17	150.EC	
	.000	57.550	44.030	46.708	25.361	24.695	42.444	43.146	25.028	23.308	3.225	
CH ^o	NAME	34	35	36	37	38	39	40	41	42	43	44
	(PS)	C2	C3	L1	L1	P1	P2	A1	A1	A3	A3	
PAY.	5.80	13.92	0.00	13.72	41.16	*30	TDS	TDS	TDS	TDS	TDS	TCNS
MIN.	-6.96	-0.28	*0.00	-30.67	-51.45	-44	*41	*00	*00	*00	*00	
MEAN	129.62	136.66	*0.00	411.66	432.16	1.60	1.61	*00	*00	*00	*00	
STDEV	2.177	3.547	.000	7.602	9.560	.110	.083	*000	*000	*000	*000	

SUMMARY OF STATISTICAL DATA FOR
TIME IN 6 MINUTE INTERVALS FROM START OF TADP
0
THESE MEAN VALUES ON CHANNELS 3 THRU 44 WAVE NO DIRECT MEANING
THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
(MS) = MICRO - STEPLINE

CH.	1	2	3	4	5	6	7	8	9	10	11
NAME	V1	V2	V1L1	1HT1	2HT1	3HL1	3HT1	3HL2	3HT2	3HL1	3HT2
	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
MAX.	29.07	219.34	207.37	140.40	168.07	117.00	155.22	6.30	135.30	160.20	
MIN.	4.78	0.00	-92.32	-44.10	-3.43	-17.10	-168.07	-52.20	-90	-2.70	
MEAN	8.29	120.61	87.32	44.10	192.08	36.90	240.31	176.40	181.79	52.20	37.80
STDEV	1.404	70.418	10.432	3.1e1	3.056	2.766	7.468	1.041	3.166	3.477	
CH.	12	13	14	15	16	17	18	19	20	21	22
NAME	3HT2	2HL3	3HT1	3HT2	3HRT3	4HL1	4HT1	4HL2	4HT2	1V1	1V2
	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
MAX.	*00	9.00	144.00	52.02	226.60	F5.75	4.50	61.74	37.80	242.06	*00
MIN.	*CO	-58.50	-44.50	-51.30	*00	-75.46	-154.50	-78.69	-1.60	-37.24	*00
MEAN	*00	190.00	93.70	70.20	*00	236.67	169.20	161.74	72.90	101.79	*00
STDEV	*000	2.521	3.433	1.774	5.019	3.608	3.862	2.432	1.392	*000	
CH.	23	24	25	26	27	28	29	30	31	32	33
NAME	V1	V2	3V1	3V2	3V3	3V4	4V1	4V2	4V3	4V4	C1
	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
MAX.	*CO	716.67	372.24	381.71	18.62	18.62	27.63	167.58	37.24	1294.09	127.60
MIN.	*00	-46.55	-27.43	-57.24	-505.64	-465.64	-9.31	-9.31	-PCG.97	-27.63	-4.64
MEAN	*00	66n.24	120C.05	677.65	1182.37	763.42	1042.72	1024.1C	96A.24	1005.48	151.96
STDEV	*00	18.047	7.367	21.111	13.055	10.548	5.546	7.075	1t.432	26.122	3.373
CH.	34	35	36	37	38	39	40	41	42	43	44
NAME	C2	C3	L1	S1	S2	P1	P2	A1	A2	A3	A4
	(MS)	(MS)	(MS)	(MS)	(MS)	(PSI)	(PSI)	TNS	TNS	TNS	TNS
MAX.	6.96	107.08	*00	13.72	*08	*04	*00	*00	*00	*00	*00
MIN.	-F.12	-5.12	*00	-229.81	-1.24	*1.1C	*00	*00	*00	*00	*00
MEAN	126.44	129.20	*00	411.60	428.75	1.66	*044	*032	*000	*000	*000
STDEV	4.573	2.662	*000	5.600	5.662	*000	*000	*000	*000	*000	*000

SUMMARY OF STATISTICAL DATA FOR FG 27 - 1
 TIME IN 60 MINUTE INTERVALS FROM START TO TAPE 13
 THE MEAN VALUES ON CHANNELS 3 THRU 44 HAVE NO DIRECT MEANING
 THESE MEAN VALUES HAVE REFERENCE FACTOR FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
 (PSI) = MICRON - STRAINS

CH.	1	2	3	4	5	6	7	8	9	10	11
NAME	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)
MAX.	31.59	29.37	24.01	6.30	106.33	5.40	51.45	17.10	30.67	6.30	13.50
MIN.	4.75	4.70	-202.37	-1.80	-3.43	-6.00	-6.66	-2.70	-3.43	-9.90	-6.60
MEAN	24.04	179.46	415.03	44.10	161.79	44.10	150.52	62.10	165.22	41.40	40.50
STDEV	2.257	10.618	11.562	8.164	8.167	5.488	1.680	3.164	7.91	1.285	
CH.	12	13	14	15	16	17	18	19	20	21	22
NAME	3H6L2	3H2L3	3HPT1	3HPT2	4HLL1	4HLL1	4HT1	4HT2	4V1	4V2	4V2
MAX.	25.20	20.70	3.60	10.60	10.676	23.40	113.15	•50	223.44	(MS)	(MS)
MIN.	-2.63	-1.40	-1.40	-1.40	-2.70	-3.43	-3.60	-3.43	-111.72	•CC	•CC
MEAN	8C.10	62.10	44.10	46.50	43.20	185.22	50.40	161.75	71.10	303.07	•00
STDEV	2.074	1.826	•581	•628	•776	7.256	2.223	8.118	•503	42.064	•00C
CH.	23	24	25	26	27	28	29	30	31	32	33
NAME	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)
MAX.	53.70	214.13	232.75	214.13	204.82	204.82	204.52	214.13	176.69	130.34	6.96
MIN.	-165.51	-P3.79	-P3.79	-74.48	-37.4	-46.55	-74.46	-63.75	-63.75	-83.73	-5.60
MEAN	847.21	693.76	693.76	846.45	854.45	676.32	912.38	603.07	665.63	665.33	142.66
STDEV	36.009	41.059	42.271	40.009	22.681	22.147	35.466	36.586	28.336	21.467	3.322
CH.	34	35	36	37	38	39	40	41	42	43	44
NAME	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	TONS	TONS	A4
MAX.	4.64	10.44	117.00	27.15	37.73	•23	•17	•00	•00	•00	TONS
MIN.	-4.64	-6.96	-9.00	-24.01	-41.16	-4.7	-25	•00	•00	•00	TONS
MEAN	140.36	120.62	351.00	425.32	428.75	1.435	1.441	•056	•000	•000	TONS
STDEV	2.096	3.766	13.663	6.993	8.931	•098	•000	•000	•000	•000	TONS

SUMMARY OF STATISTICAL DATA FNG 27 - 2
 TIME TN 6 MINUTE INTERVALS FROM START FF TAOF 14
 THE MEAN VALUES ON CHANNELS 3 THRU 64 HAVE NO DIRECT MEANING
 THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
 (MS) = MICRO - STRAINS

CH.	NAME	1	2	3	4	5	6	7	8	9	10	11
		V1	V2	1HL1	1HT1	2HL1	2HT1	3HL1	3HT1	2HL2	3HT2	3HFL1
	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
MAX.	32.22	20.37	3.43	6.10	18.65	6.30	113.19	6.90	37.73	11.70	33.60	33.60
MIN.	15.14	8.73	-3.43	-1.60	-6.96	-5.60	-3.43	-6.30	-6.86	-9.00	-1.60	-1.60
MEAN	25.52	17.946	40.017	45.00	185.22	44.10	147.40	63.00	18.65	42.30	40.50	40.50
STDEV	2.319	7.224	1.466	1.027	1A.251	.917	7.332	1.(.88	5.157	1.284	2.346	2.346
CH.	NAME	12	13	14	15	16	17	18	19	20	21	22
		3HL2	3HL3 <td>3HT1</td> <td>3HT2</td> <td>4HL1</td> <td>4HT1</td> <td>4HL2</td> <td>4HL1</td> <td>4V1</td> <td>4V2</td> <td>4V3</td>	3HT1	3HT2	4HL1	4HT1	4HL2	4HL1	4V1	4V2	4V3
	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
MAX.	21.60	22.50	28.60	15.30	32.40	181.75	16.20	150.92	1.40	344.47	.00	.00
MIN.	-76.50	-4.50	-3.60	-2.70	-3.60	-6.50	-4.50	-6.86	-9.00	-148.96	.00	.00
MEAN	76.50	67.10	46.00	43.70	165.22	49.50	145.22	70.20	912.35	.00	.00	.00
STDEV	17.725	1.530	1.307	.932	1.790	17.706	1.716	15.517	.499	56.744	.000	.000
CH.	NAME	23	24	25	26	27	28	29	30	31	32	33
		2V1	2V2	3V1	3V2	3V3	3V4	4V1	4V2	4V3	4V4	C1
	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
MAX.	53.10	400.33	335.16	325.65	214.13	204.82	260.68	260.68	176.89	156.27	.00	.00
MIN.	-455.64	-63.79	-74.48	-74.48	-37.26	-27.63	-93.10	-93.10	-74.48	-65.17	-6.96	-6.96
MEAN	F47.21	693.76	603.07	653.76	884.45	661.01	921.69	921.69	865.83	565.83	14C.36	14C.36
STDEV	57.662	59.973	56.602	54.140	25.561	25.112	47.031	47.031	32.350	25.031	3.256	3.256
CH.	NAME	34	35	36	37	38	39	40	41	42	43	44
		(PS)	(PS)	(PS)	(PS)	(PS)	(PS)	(PS)	(PS)	TGNS	TGNS	A4
	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	.00	.00	.00
MAX.	5.80	0.28	144.00	20.58	30.87	.23	.22	.00	.00	.00	.00	.00
MIN.	-4.64	-15.08	-18.00	-27.44	-61.74	-36	-24	.00	.00	.00	.00	.00
MEAN	141.52	140.36	351.00	426.32	42n.75	1.38	1.44	.00	.00	.00	.00	.00
STDEV	2.357	3.645	16.050	E.051	11.358	.094	.075	.00	.00	.000	.000	.000

SUMMARY OF STATISTICAL DATA FOR FG 27 - 3
 TIME IN 60 MINUTE INTERVALS FROM START OF TAPF 15
 THE MEAN VALUES ON CHANNELS 3 THRU 44 HAVE NO DIRECT MEANING
 THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE MJN. AND MAX. VALUES FOR THESE CHANNELS
 (PSI) = MTCRD - STRAINS

CH.	NAME	1	2	3	4	5	6	7	8	9	10	11
	(PSI)	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11
MAX.		32.54	169.43	.00	0.00	-315.56	13.50	164.64	21.60	61.74	(PSI)	(PSI)
MJN.		16.46	69.79	-3.43	-1.80	-17.15	-1.40	-6.66	-1.80	-6.66	54.90	16.00
MEAN		25.52	169.49	4CF.17	44.1C	195.51	45.00	150.92	63.00	162.65	-2.70	-1.40
STDEV		2.507	7.553	1.604	1.695	42.158	1.545	17.227	2.191	7.676	42.30	41.40
											6.217	
CH.	NAME	12	13	14	15	16	17	18	19	20	21	22
	(PSI)	W6P12	W6P13	W6P14	W6P15	W6P16	W6P17	W6P18	W6P19	W6P20	W6P21	W6P22
MAX.		40.50	45.00	47.70	26.50	51.30	301.44	2FA.65	90	446.38	(PSI)	(PSI)
MJN.		-6.30	-2.70	-3.60	-5.40	-3.60	-13.72	-4.50	-10.25	-1.80	-176.89	*.00
MEAN		81.00	62.10	40.95C	51.30	44.10	195.51	52.20	1F6.65	71.10	912.36	*.00
STDEV		3.692	3.996	4.32E	2.758	4.127	34.533	7.333	27.644	.503	71.696	*.00
CH.	NAME	23	24	25	26	27	28	29	30	31	32	33
	(PSI)	W7V1	W7V2	W7V3	W7V4	W7V5	W7V6	W7V7	W7V8	W7V9	W7V10	W7V11
MAX.		111.72	400.23	409.64	372.40	268.99	260.68	381.71	381.71	232.75	195.51	(PSI)
MJN.		-418.95	-111.72	-102.41	-111.72	-37.24	-37.24	-111.72	-111.72	-74.43	-74.43	11.60
MEAN		837.00	603.07	903.07	884.45	670.32	931.00	921.69	665.63	865.93	-8.12	-8.12
STDEV		77.420	78.611	69.202	65.365	31.504	50.629	56.792	57.302	37.470	29.044	136.86
												3.318
CH.	NAME	34	35	36	37	38	39	40	41	42	43	44
	(PSI)	C2	C3	L1	S1	P1	P2	A1	A2	A3	A4	
MAX.		5.80	15.08	20.70C	20.5P	54.68	*.25	*.00	*.00	TONS	TONS	
MJN.		-8.12	-8.12	-7.00	-34.30	-75.46	*.37	*.39	*.00	*.00	*.00	*.00
MEAN		142.68	135.72	351.00	425.32	428.75	1.39	1.45	*.00	*.00	*.00	*.00
STDEV		2.215	3.790	22.904	Q. 506	14.315	.104	.058	*.000	*.000	*.000	*.000

FG 2F - 1

SUMMARY OF STATISTICAL DATA FOR
TUE IN 6F M NITE INTERVALS FROM START OF TAPE 138

THE MEAN VALUES ON CHANNELS 3 THRU 44 HAVE NO DIRECT MEANING.

THESE MEAN VALUES HAVE BEEN SLACKENED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS

(MS) = MICRO - STPANS

CH.	NAME	1	2	3	4	5	6	7	8	9	10	11
		b1	v2	1H1	1H1	2H1	2H1	3H1	3H1	3H2	3H2	3H2
	(MS)	196.0	199.43	147.46	147.46	113.19	113.19	72.03	72.03	5.46	5.46	5.46
MAX.		33.18	109.67	113.72	113.72	-3.63	-3.63	-3.43	-3.43	-6.86	-6.86	-6.86
MIN.		10.14	109.67	-13.72	-13.72	45.90	45.90	41.40	41.40	54.90	54.90	54.90
MEAN		24.24	166.45	243.53	243.53	161.76	161.76	137.20	137.20	47.70	47.70	43.20
STDEV		3.026	7.647	15.755	15.755	6.64	6.64	4.525	4.525	6.794	6.794	1.463
CH.	NAME	12	13	14	15	16	17	18	19	20	21	22
		3HFT2	3HFT1	3HFT1	3HFT2	4HFT3	4HFT1	4HFT2	4HFT2	4H12	4H12	4V2
	(MS)	15.80	14.51	14.51	15.80	16.80	16.80	15.30	15.30	16.30	16.30	16.30
MAX.		15.80	15.80	15.80	15.80	16.80	16.80	16.80	16.80	16.80	16.80	16.80
MIN.		-2.70	-3.60	-2.70	-2.70	-1.60	-1.60	-2.70	-2.70	-3.43	-3.43	-3.43
MEAN		65.70	51.30	75.26	75.26	72.00	72.00	161.79	161.79	185.22	185.22	185.22
STDEV		1.756	1.461	1.823	1.823	2.675	2.675	1.142	1.142	6.212	6.212	4.244
CH.	NAME	23	24	25	26	27	28	29	30	31	32	33
		2V1	2V2	3V1	3V2	3V3	3V4	4V1	4V2	4V3	4V4	C1
	(MS)	130.34	121.03	121.03	121.03	111.72	111.72	102.41	102.41	111.72	111.72	(MS)
MAX.		46.55	46.55	46.55	46.55	-37.24	-37.24	-18.62	-18.62	-37.24	-37.24	5.40
MIN.		-121.03	-37.24	-27.24	-27.24	512.05	512.05	437.57	437.57	545.84	545.84	-3.46
MEAN		567.91	555.54	512.05	512.05	391.02	391.02	24.421	24.421	12.692	12.692	145.00
STDEV		25.710	26.661	25.133	25.133	24.421	24.421	12.692	12.692	21.756	21.756	1.556
CH.	NAME	34	35	36	37	38	39	40	41	42	43	44
		C2	C3	L1	L1	P1	P1	P2	P2	TGS	TGS	A4
	(MS)	5.50	111.00	6.66	6.66	17.15	17.15	11.11	11.11	8.62	8.62	7.40
MAX.		2.32	5.50	-3.48	-3.48	-33.00	-33.00	-24.01	-24.01	-9.33	-9.33	-10.05
MIN.		-3.48	160.08	147.32	147.32	369.00	369.00	235.61	235.61	1.02	1.02	-89.03
MEAN		1.041	1.043	10.666	10.666	3.051	3.051	5.212	5.212	.036	.036	101.24
STDEV										1.623	1.623	4.051

SUMMARY OF STATISTICAL DATA FOR FG 20 - 1
TIME IN 60 MINUTE INTERVALS FROM START RF TAPP 127
THE MEAN VALUES ON CHANNELS 3 THRU 44 HAVE NO DIRECT MEANING
THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
(PSI) = MICROR - STRAINS

CH.	NAME	1	2	3	4	5	6	7	8	9	10	11
	NAME	(NPH)	L1	W2	1HL1	1HT1	2HL1	3HL1	3HL1	3HL2	3HL2	3HL2
	MAX.	29.56	199.40	(W5)	(PS)	(W5)	(PS)	(W5)	(PS)	(W5)	(PS)	(PS)
	MIN.	16.18	0.00	126.91	3.60	80.18	1.60	24.01	1.90	37.73	1.40	8.10
	MEAN	28.07	159.52	-30.87	-0.90	-3.43	-4.50	-3.43	-4.50	-6.66	-1.60	-0.90
	STDEV	3.503	27.406	277.63	47.70	174.93	44.10	147.44	57.60	166.65	50.40	45.00
				16.705	0.65	4.267	0.567	2.150	0.576	5.208	0.528	0.747
CH.	NAME	12	13	14	15	16	17	18	19	20	21	22
	NAME	3HPL3	3HPT1	3HPT2	3HPT3	4HL1	4HL2	4HT1	4HT2	4H12	4V1	4V2
	MAX.	11.70	5.40	25.20	27.60	0.00	41.16	5.40	34.30	2.70	(MS)	(MS)
	MIN.	-6.30	-4.50	-0.50	-0.50	0.00	-3.43	-2.70	-3.43	-10.80	130.34	232.75
	MEAN	66.60	51.30	64.80	63.50	0.00	166.07	47.70	184.65	44.50	-27.93	-45.55
	STDEV	1.119	0.612	0.946	1.272	0.000	3.120	0.564	2.485	3.547	566.53	1C05.48
										15.937	15.937	24.021
CH.	NAME	23	24	25	26	27	28	29	30	31	32	33
	NAME	2V1	2V2	3V1	3V2	3V3	3V4	4V1	4V2	4V3	4V4	C1
	MAX.	37.24	102.41	121.03	121.03	83.79	F3.79	139.65	130.34	65.17	46.55	(MS)
	MIN.	-102.41	-37.24	-27.62	-27.62	-11.62	-9.31	-27.93	-27.93	-18.62	-15.62	4.64
	MEAN	577.72	595.84	512.05	381.71	437.57	484.12	566.53	566.53	566.53	586.53	-3.66
	STDEV	14.152	15.997	13.926	14.660	7.955	7.167	12.664	12.591	10.034	7.416	145.16
												1.560
CH.	NAME	34	35	36	37	38	39	40	41	42	43	44
	NAME	C2	C3	L1	51	P1	P2	P1	A1	A2	A3	A4
	MAX.	2.32	4.64	(W5)	(W5)	(PSI)	(PSI)	TGS	TGS	TGS	TGS	TGS
	MIN.	-3.48	-3.49	69.00	6.66	10.29	0.12	0.06	0.62	7.90	5.03	18.67
	MEAN	143.64	145.00	-54.00	-13.72	-17.15	-0.18	-0.11	-11.45	-8.62	-0.62	-7.90
	STDEV	0.502	1.684	9.810	4.060	435.61	436.04	1.41	0.55	59.80	102.67	101.96
					2.755	3.350	0.042	0.023	2.037	1.611	1.613	2.161

SUMMARY FF STATISTICAL DATA FFB
 TIME IN 6 MINUTE INTERVALS FFBM START FF TAPE 128
 THF MEAN VALUES CH CHANNELS 3 THPL 66 HAVE NO OBJECT MEANING
 THFSF MEAN VALUES HALF PERIOD SURFACTANT FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
 (MS) = MFRD - STRAINS

CH#	NAME	1	2	3	4	5	6	7	8	9	10	11
	(MS)	v1	v2	1HL1 (MS)	1HT1 (MS)	2HL1 (MS)	2HT1 (MS)	3HL1 (MS)	3HT1 (MS)	3HL2 (MS)	3HT2 (MS)	3HL1 (MS)
MAX.		34.13	209.37	1C2.70	3.60	126.91	4.50	6.60	14.4C	5.4C	12.9C	
MIN.		16.27	.00	-17.15	-.00	-2.43	-4.50	-3.43	-4.50	-6.26	-1.80	
MEAN		23.20	174.46	274.40	46.90	17P.36	41.40	137.20	55.60	1eE.65	50.40	43.2C
STDEV		2.085	22.345	19.592	.679	10.086	.693	4.732	.616	.649	.763	1.520
CH#	NAME	12	13	14	15	16	17	18	19	20	21	22
	(MS)	3HFL3 (MS)	3HFL1 (MS)	3HPT2 (MS)	3HRT3 (MS)	4HL1 (MS)	4HT1 (MS)	4HL2 (MS)	4HT2 (MS)	4V1	IV2	
MAX.		29.70	22.50	16.20	14.40	.00	F5.75	18.9C	6.30	(PS)	(PS)	
MIN.		-0.10	+5.40	-2.70	-J.R0	.00	-6.86	-3.60	-3.43	-11.70	-62.40	
MEAN		66.60	50.40	66.60	64.80	.00	171.50	46.80	18b.65	54.00	-111.72	
STDEV		1.014	1.290	1.264	1.142	.000	9.813	.964	7.225	.782	1C14.79	
CH#	NAME	23	24	25	26	27	28	29	30	31	32	33
	(MS)	2V1	2V2	3V1 (MS)	3V2 (MS)	3V3 (MS)	3V4 (MS)	4V1 (MS)	4V2 (MS)	4V3 (MS)	4V4 (MS)	C1
MAX.		46.55	232.75	15R.27	14P.66	93.10	63.1C	1A6.20	167.56	83.79	(PS)	(MS)
MIN.		-242.06	-46.55	-37.24	-46.55	-1A.62	-15.62	-55.66	-55.86	-37.24	74.48	
MEAN		577.22	595.84	512.05	351.02	446.88	483.43	595.64	595.64	-27.93	-4.64	
STDEV		31.055	34.014	27.661	27.951	15.836	15.315	25.716	25.896	586.53	162.60	
CH#	NAME	34	35	36	37	38	39	40	41	42	43	44
	(MS)	C2	C3	L1 (MS)	S1 (MS)	S2 (MS)	P1 (PSI)	P2 (PSI)	A1	A2	A3	A4
MAX.		2.32	5.00	93.00	10.29	24.01	.12	.11	9.33	TGNS	TGNS	TGNS
MIN.		-2.32	-3.48	-60.00	-12.72	-30.67	-.19	-.15	-10.05	b.62	9.33	12.92
MEAN		142.68	142.68	393.00	435.61	1.41	.95	.95	-9.33	-10.05	-13.64	
STDEV		1.676	1.660	4.086	6.650	.042	.040	.040	102.67	101.96	100.52	
									2.305	2.604	3.054	

SUMMARY OF STATISTICAL DATA FOR
TIME IN 6 MINUTE INTERVALS FROM START OF TAPE - 3
THE MEAN VALUES ON CHANNELS 3 THRU 44 HAVE NO DIRECT MEANING
THESE MEAN VALUES HAVE BEEN SURFACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
(PSI) = MICRO - STRAINS

CH#	1	2	3	4	5	6	7	8	9	10	11
NAME	W1	W2	WL1	WL1	WT1	WL1	WL1	WL2	WL2	PT2	WL1
MAX.	24.03	169.43	67.32	2.70	5.31	1.60	30.67	4.50	65.17	5.40	10.60
MIN.	17.46	169.00	-16.25	-2.70	-3.43	-2.70	-3.43	-5.00	-6.86	-2.70	-1.60
MEAN	22.61	136.58	264.11	40.50	170.36	47.70	161.21	66.60	162.06	53.10	47.70
STDEV	2.15	33.209	14.381	6.62A	6.60	3.072	6.55	7.044	6.59	1.073	
CH#	12	13	14	15	16	17	18	19	20	21	22
NAME	WL2	WL3	WT1	WT2	WL3	WL1	WL1	WL2	HT2	V1	V2
MAX.	8.10	7.20	15.30	24.30	0.00	76.89	2.70	5P.31	(PSI)	(PSI)	(PSI)
MIN.	-11.79	-6.00	-2.70	-1.40	.00	-6.66	-9.00	-6.66	-1.80	-65.17	-111.72
MEAN	81.00	61.20	64.40	63.00	0.00	17F.36	57.6C	162.08	51.3C	86.53	1014.79
STDEV	1.072	.931	1.303	1.580	0.000	6.635	.808	5.465	.653	26.049	52.037
CH#	23	24	25	26	27	28	29	30	31	32	33
NAME	V1	V2	V1	V2	V3	V4	V1	V2	V3	V4	C1
MAX.	46.55	176.90	14E.96	14P.66	102.41	F3.75	121.03	121.03	121.03	(PSI)	(PSI)
MIN.	-176.29	-46.55	-27.43	-27.43	-16.62	-15.62	-46.55	-37.24	-27.93	74.4F	5.0HC
MEAN	577.22	565.84	512.05	361.67	437.57	463.43	605.15	555.84	586.53	-27.53	-3.46
STDEV	2E.596	31.522	24.573	24.612	12.666	12.641	10.605	2C.626	15.719	11.932	142.6F
CH#	34	35	36	37	38	39	40	41	42	43	44
NAME	C2	L1	L1	L1	P1	P1	P2	P1	TNS	TNS	TNS
MAX.	3.48	4.64	4.00	30.29	13.72	11	6.46	7.40	7.16	12.92	
MIN.	-2.64	-2.32	-39.00	-13.72	-30.67	-1.15	-1.16	-7.60	-7.18	-7.90	-9.33
MEAN	142.68	149.64	3F1.00	435.61	436.04	1.42	.95	55.08	102.67	100.52	
STDEV	1.047	1.679	11.711	3.865	5.645	.043	.040	1.564	1.742	1.774	2.436

STANLEY FF STATISTICAL DATA FOR FC 30 - 1st TAP
 TIME IN MINUTE INTERVALS FROM START TO TAP
 THE MEAN VALUES ON CHANNELS 3 THRU 44 HAVE NO DIRECT MEANING
 THESE MEAN VALUES HAVE AFFECTED MEANING OF MAX. VALUES FOR THESE CHANNELS
 (MS) = MEAN - STANDARD DEVIATION

CH.	1	2	3	4	5	6	7	8	9	10	11	12
NAME	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	1.10	1.11	1.12
MAX.	40.113	1C26.51	.00	7.20	.61.74	5.40	113.10	34.60	41.16	41.16	(MS)	7.20
MIN.	10.53	.00	.00	-.00	-.43	-1.80	-3.43	-2.70	-6.36	-6.36	-1.10	
MEAN	24.56	174.46	.00	45.50	191.79	42.30	151.92	151.70	44.53	44.53	46.46	
STDEV	5.646	61.311	.001	.745	4.435	.602	4.136	1.103	6.015	6.015	.879	
CH.	12	13	14	15	16	17	18	19	20	21	22	23
NAME	3H11.2	3H21.3	3H31.1	3H41.2	4H11.1	4H21.1	4H31.1	4H41.2	4H51.2	4H61.1	4H71.1	4V1
MAX.	55.00	53.10	35.70	63.00	.00	130.34	63.90	44.56	4.50	53.10	145.96	(MS)
MIN.	-13.50	-11.10	-6.00	-5.40	-.00	-10.24	-1.80	-3.43	-19.80	-37.24	-74.46	
MEAN	72.00	52.20	75.60	72.00	.00	111.79	45.00	1.65	49.50	59.34	1033.41	
STDEV	5.078	1.525	3.605	5.145	.660	6.615	1.756	4.111	1.00	17.138	29.629	
CH.	24	25	26	27	28	29	30	31	32	33	34	35
NAME	2.1	2V2	3V1	3V2	3V3	3V4	4V1	4V2	4V3	4V4	C1	C2
MAX.	37.24	102.41	102.41	93.79	74.44	F3.76	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
MIN.	-102.41	-46.55	-27.24	-6.55	-9.31	-5.31	-27.93	46.55	46.55	46.55	3.46	
MEAN	567.91	605.15	521.36	400.33	437.57	484.12	605.15	516.53	516.53	516.53	149.64	
STDEV	16.044	21.591	27.03	22.002	R.275	R.013	16.574	16.110	16.110	16.110	1.034	1.034
CH.	36	37	38	39	40	41	42	43	44	45	46	47
NAME	1.2	1.3	1.4	1.5	P1	P2	TUN.	TUN.	TUN.	TUN.	TUN.	TUN.
MAX.	6.06	4.664	57.00	13.72	.11	.10	5.74	7.90	7.18	7.18		
MIN.	-2.40	-2.46	-6.00	-10.76	-17.15	-12	-6.62	-6.46	-10.77	-10.77		
MEAN	146.36	147.32	372.00	432.11	436.61	1.44	97.65	103.29	101.24	97.65		
STDEV	1.075	1.792	7.405	3.853	4.657	.044	1.743	1.594	1.444	1.444		

SUMMARY OF STATISTICAL DATA FOR
TIME IN 60 MINUTE INTERVALS FROM START TO END - 2
THE MFAN VALUES ON CHANNELS 3 THRU 44 HAVE NO DIRECT MEANING
THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
(MS) = MICRO - STRAINS

CH.	NAME	1	2	3	4	5	6	7	8	9	10	11
	W1	(MS)	W2	1HL1	2HT1	2HL1	3HL1	3HT1	3HL2	3HT2	3HL1	3HT2
	MFAN	37.32	250.22	.00	1.10	6.86	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
	MIN.	1.59	.66	.00	-.60	-.00	2.60	126.91	44.10	6.66	1.80	-1.40
	MFAN	18.18	196.40	.00	46.60	170.36	41.40	73.43	-1.80	-.3.43	-.00	-.00
	STDEV	6.026	42.472	.0000	-.462	1.701	-.591	147.49	52.20	168.65	44.50	47.70
								1.577	1.459	.483		.560
CH.	NAME	12	13	14	15	16	17	18	19	20	21	22
	3HPL2	(MS)	3HPL3	3HPT1	3HPT2	3HPT3	4HL1	4HT1	4HL2	4HT2	4V1	4V2
	MFAN	76.50	46.80	41.00	135.00	*.00	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
	MIN.	-4.50	-.50	-4.50	-5.40	*.00	45.02	27.50	3.43	1.80	27.03	46.55
	MFAN	71.10	51.30	76.50	73.90	*.00	-.50	-.50	-.3.43	1.80	27.93	46.53
	STDEV	10.297	1.841	13.41C	18.767	*.00	174.93	46.80	188.65	48.60	545.34	1024.10
							2.221	1.377	1.662	.467	6.602	11.169
CH.	NAME	23	24	25	26	27	28	29	30	31	32	33
	2V1	(MS)	2V2	3V1	2V2	3V3	3V4	4V1	4V2	4V3	4V4	C1
	MFAN	27.53	37.24	27.93	27.93	1R.62	1R.62	19.62	16.62	(MS)	(MS)	(MS)
	MIN.	71R.62	-12.62	-.31	-1R.62	-.31	-.31	-.31	-.31	27.93	1R.62	3.46
	MFAN	567.91	605.15	512.05	391.02	437.57	484.12	55.84	595.64	56.53	56.53	-2.32
	STDEV	5.538	6.727	7.005	7.325	3.447	3.917	5.601	5.796	6.003	143.54	1.134
CH.	NAME	34	35	36	37	38	39	40	41	42	43	44
	C2	(MS)	C3	L1	S1	S2	P1	P2	P1	A2	A3	A4
	MFAN	2.32	10.44	27.00	6.86	6.86	(PSI)	(PSI)	70MS	TDS	TNS	TNS
	MIN.	-1.16	-4.64	-.00	-6.86	-6.86	.06	.04	3.55	2.15	1.44	1.44
	MFAN	140.36	142.68	372.00	435.61	435.61	-.11	-.06	-3.55	-2.87	2.15	2.15
	STDEV	6.659	3.486	5.281	2.046	2.018	1.44	.95	98.37	106.26	-5.03	-5.03
							.023	.014	.693	.642	.424	.424

STABILITY OF STATISTICAL DATA FTS - 3
TIME IN 60 MINUTE INTERVALS FROM START OF TAPE - 140
THE MEAN VALUES IN CHANNELS 3 THRU 64 WAVE NO OBJECT MEANING
THESE MEAN VALUES HAVE BEEN SURFACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
(MS) = MEAN - STRAINS

CH#	NAME	1	W2	HHL1 (MS)	4 HT1 (MS)	5 HHL1 (MS)	6 HHL1 (MS)	7 HHL1 (MS)	8 HHL1 (MS)	9 HHL2 (MS)	10 HHL2 (MS)	11 HHL1 (MS)
CH#	NAME	12	WBL2 (MS)	HBL3 (MS)	HTP7 (MS)	HPT3 (MS)	HT1 (MS)	HT1 (MS)	HT1 (MS)	HT2 (MS)	HT2 (MS)	HT1 (MS)
CH#	NAME	23	V1 (MS)	V2 (MS)	V3 (MS)	V4 (MS)	V1 (MS)	V2 (MS)	V3 (MS)	V4 (MS)	V1 (MS)	V2 (MS)
CH#	NAME	24	V2 (MS)	V3 (MS)	V4 (MS)	V5 (MS)	V1 (MS)	V2 (MS)	V3 (MS)	V4 (MS)	V1 (MS)	V2 (MS)
CH#	NAME	25	V4 (MS)	V5 (MS)	V6 (MS)	V7 (MS)	V1 (MS)	V2 (MS)	V3 (MS)	V4 (MS)	V1 (MS)	V2 (MS)
CH#	NAME	26	V5 (MS)	V6 (MS)	V7 (MS)	V8 (MS)	V1 (MS)	V2 (MS)	V3 (MS)	V4 (MS)	V1 (MS)	V2 (MS)
CH#	NAME	27	V6 (MS)	V7 (MS)	V8 (MS)	V9 (MS)	V1 (MS)	V2 (MS)	V3 (MS)	V4 (MS)	V1 (MS)	V2 (MS)
CH#	NAME	28	V7 (MS)	V8 (MS)	V9 (MS)	V10 (MS)	V1 (MS)	V2 (MS)	V3 (MS)	V4 (MS)	V1 (MS)	V2 (MS)
CH#	NAME	29	V8 (MS)	V9 (MS)	V10 (MS)	V11 (MS)	V1 (MS)	V2 (MS)	V3 (MS)	V4 (MS)	V1 (MS)	V2 (MS)
CH#	NAME	30	V9 (MS)	V10 (MS)	V11 (MS)	V12 (MS)	V1 (MS)	V2 (MS)	V3 (MS)	V4 (MS)	V1 (MS)	V2 (MS)
CH#	NAME	31	V10 (MS)	V11 (MS)	V12 (MS)	V13 (MS)	V1 (MS)	V2 (MS)	V3 (MS)	V4 (MS)	V1 (MS)	V2 (MS)
CH#	NAME	32	V11 (MS)	V12 (MS)	V13 (MS)	V14 (MS)	V1 (MS)	V2 (MS)	V3 (MS)	V4 (MS)	V1 (MS)	V2 (MS)
CH#	NAME	33	V12 (MS)	V13 (MS)	V14 (MS)	V15 (MS)	V1 (MS)	V2 (MS)	V3 (MS)	V4 (MS)	V1 (MS)	V2 (MS)
CH#	NAME	34	C1 (PSI)	C2 (PSI)	L1 (PSI)	S1 (PSI)	P1 (PSI)	A1 (PSI)	A2 (PSI)	A3 (PSI)	A4 (PSI)	A5 (PSI)
CH#	NAME	35	C3 (PSI)	C4 (PSI)	D1 (PSI)	D2 (PSI)	P2 (PSI)	TGS (PSI)	TGS (PSI)	TGS (PSI)	TGS (PSI)	TGS (PSI)
CH#	NAME	36	C5 (PSI)	C6 (PSI)	D3 (PSI)	D4 (PSI)	P3 (PSI)	TGS (PSI)	TGS (PSI)	TGS (PSI)	TGS (PSI)	TGS (PSI)
CH#	NAME	37	C7 (PSI)	C8 (PSI)	D5 (PSI)	D6 (PSI)	P4 (PSI)	TGS (PSI)	TGS (PSI)	TGS (PSI)	TGS (PSI)	TGS (PSI)
CH#	NAME	38	C9 (PSI)	C10 (PSI)	D7 (PSI)	D8 (PSI)	P5 (PSI)	TGS (PSI)	TGS (PSI)	TGS (PSI)	TGS (PSI)	TGS (PSI)
CH#	NAME	39	C11 (PSI)	C12 (PSI)	D9 (PSI)	D10 (PSI)	P6 (PSI)	TGS (PSI)	TGS (PSI)	TGS (PSI)	TGS (PSI)	TGS (PSI)
CH#	NAME	40	C13 (PSI)	C14 (PSI)	D11 (PSI)	D12 (PSI)	P7 (PSI)	TGS (PSI)	TGS (PSI)	TGS (PSI)	TGS (PSI)	TGS (PSI)
CH#	NAME	41	C15 (PSI)	C16 (PSI)	D13 (PSI)	D14 (PSI)	P8 (PSI)	TGS (PSI)	TGS (PSI)	TGS (PSI)	TGS (PSI)	TGS (PSI)
CH#	NAME	42	C17 (PSI)	C18 (PSI)	D15 (PSI)	D16 (PSI)	P9 (PSI)	TGS (PSI)	TGS (PSI)	TGS (PSI)	TGS (PSI)	TGS (PSI)
CH#	NAME	43	C19 (PSI)	C20 (PSI)	D17 (PSI)	D18 (PSI)	P10 (PSI)	TGS (PSI)	TGS (PSI)	TGS (PSI)	TGS (PSI)	TGS (PSI)
CH#	NAME	44	C21 (PSI)	C22 (PSI)	D19 (PSI)	D20 (PSI)	P11 (PSI)	TGS (PSI)	TGS (PSI)	TGS (PSI)	TGS (PSI)	TGS (PSI)
CH#	NAME	45	C23 (PSI)	C24 (PSI)	D21 (PSI)	D22 (PSI)	P12 (PSI)	TGS (PSI)	TGS (PSI)	TGS (PSI)	TGS (PSI)	TGS (PSI)
CH#	NAME	46	C25 (PSI)	C26 (PSI)	D23 (PSI)	D24 (PSI)	P13 (PSI)	TGS (PSI)	TGS (PSI)	TGS (PSI)	TGS (PSI)	TGS (PSI)
CH#	NAME	47	C27 (PSI)	C28 (PSI)	D25 (PSI)	D26 (PSI)	P14 (PSI)	TGS (PSI)	TGS (PSI)	TGS (PSI)	TGS (PSI)	TGS (PSI)
CH#	NAME	48	C29 (PSI)	C30 (PSI)	D27 (PSI)	D28 (PSI)						

SUMMARY OF STATISTICAL DATA FOR
TIME IN 6 MINUTE INTERVALS FROM START OF TAPP - 43
THE MEAN VALUES ON CHANNELS 3 THRU 44 HAVE NO DIRECT MEANING
(PSI) = MICRO - STAINS
THIS MEAN VALUES HAVE BEEN SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS

CH.	NAME	1	2	3	4	5	6	7	8	9	10	11
	NAME	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)
MAX.	37.00	229.31	.00	2.70	.41.16	1.80	24.C1	3.60	46.02	3H12	3H12	3H12
MIN.	17.54	.00	-1.F0	-3.43	-5.40	-17.15	-4.50	-3.43	2.70	(PSI)	(PSI)	(PSI)
MEAN	25.52	179.46	.00	47.70	179.36	43.20	147.49	54.00	116.65	-9.00	-2.70	9.00
STDEV	3.016	38.267	.000	.715	2.761	.628	1.738	.591	4.601	.504	.504	.595
	NAME	12	13	14	15	16	17	18	19	20	21	22
	NAME	3HFL2	3HQL3	3HFT1	3HPT2	3HPT3	4HL1	4HT1	4HT2	4HL2	4V1	4V2
MAX.	9.00	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)
MIN.	-3.60	5.00	15.3C	27.00	.00	5E.31	9.90	46.02	3.60	195.51	3H1.71	(PSI)
MEAN	6C.30	-3.60	-1.00	-7.6C	.00	-6.E6	-3.60	.00	-5.0	-65.17	-156.27	(PSI)
STDEV	4.00	51.20	73.70	72.00	.00	176.36	43.6C	1F5.22	4R.60	56.53	1C24.10	36.478
	NAME	23	24	25	26	27	28	29	30	31	32	33
	NAME	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)
MAX.	46.55	176.20	121.03	111.72	93.79	63.79	93.10	102.41	74.48	65.47	4V4	C1
MIN.	-16.20	-55.86	-27.02	-37.24	-6.31	-9.31	-46.55	-37.24	-18.62	-27.93	5.60	(PSI)
MEAN	577.22	605.15	512.05	391.02	437.57	464.12	605.15	595.64	566.53	566.53	-3.46	(PSI)
STDEV	20.024	22.774	14.700	16.711	9.058	8.904	15.696	16.601	11.402	9.713	140.36	1.475
	NAME	34	35	36	37	38	39	40	41	42	43	44
	NAME	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)
MAX.	2.32	4.64	27.00	10.29	10.29	.10	.06	.06	TONS	TONS	A3	A4
MIN.	143.34	142.63	46E.06	-13.72	-24.01	-1.16	-0.07	-0.07	5.03	5.03	TONS	TONS
MEAN	1.664	4.039	4.039	4.35.61	4.39.C4	1.39	.61	.61	-6.46	-6.46	14.36	14.36
STDEV				3.336	4.416	.033	.019	.019	107.70	105.55	-13.64	-13.64
									1.482	1.388	100.52	100.52
										3.226		

5
FC 30 - 5
SUMMARY OF STATISTICAL DATA FOR FC 30 - 5
TYPE IV (4 MINUTE INTERVALS) FROM STAFF RF TAPP 166
THE MEAN VALUES ON CHANNELS 3 THAT HAVE DIRECT MEANING
THESE MEAN VALUES HAVE BEEN SURFACTEN FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
(MS) = MICRO - STAINS

CH.	NAME	1	2	3	4	5	6	7	8	9	10	11
	(PSI)	1.1	1.2	1.1L1 (MS)	1.4T1 (PS)	2H1 (MS)	2H1 (MS)	3H1 (MS)	3H1 (MS)	3H1 (MS)	3HT2 (MS)	3HT1 (MS)
MAX.		0.5G + .40	.66	.40	.18	.70	.87	.90	.30	.70	.50	.50
MIN.		37.66	145.40	-2.70	-3.43	+1.30	-3.43	-1.60	-3.43	+1.90	.00	.00
MEAN		2C.74	.00	4C.50	17P.36	42.30	144.06	53.10	15A.65	21.30	45.90	.514
STDEV		2E.71	.00	.735	5.312	.541	2.046	.624	4.280	.603	.603	.514
CH.	NAME	12	13	14	15	16	17	18	19	20	21	22
	(MS)	3HPT3 (PS)	3H5T1 (MS)	3H6T2 (PS)	3HPL1 (MS)	4HT1 (MS)	4HT1 (MS)	4HT2 (MS)	4HT2 (MS)	4V1	4V1	4V2
MAX.		24.30	16.2C	25.1C	40.50	.00	41.16	15.30	.17	.20	.03	204.62
MIN.		-1.00	-4.50	-2.70	.00	.00	-3.43	-1.60	-3.43	-7.20	-37.24	-52.60
MEAN		67.50	5C.4C	72.0C	73.80	.00	174.93	47.70	.22	.60	.64	1014.79
STDEV		1.278	.012	1.737	2.793	.000	3.563	.760	.376	1.480	17.768	27.418
CH.	NAME	23	24	25	26	27	28	29	30	31	32	33
	(MS)	2V1	2V2 (PS)	3V1 (MS)	3V2 (PS)	3V3 (MS)	4V4 (MS)	4V1 (MS)	4V3 (MS)	4V3 (MS)	4V4 (MS)	4V4 (MS)
MAX.		27.93	111.72	111.72	1C2.41	74.4P	74.48	102.41	111.72	.79	.17	.46
MIN.		-121.03	-46.55	-37.24	-37.24	-9.31	-9.31	-37.24	-27.93	-18.62	-27.93	-34.6
MEAN		577.22	605.15	521.36	351.02	437.57	464.12	605.15	545.84	5t6.53	566.53	142.66
STDEV		17.525	19.688	15.223	18.373	7.821	7.710	15.025	15.569	10.477	10.477	1.444
CH.	NAME	34	35	36	37	38	39	40	41	42	43	44
	(PSI)	C2	C3	L1 (MS)	S1 (PS)	S2 (MS)	P1 (PSI)	P2 (PSI)	A2 TCNS	TGS	TGS	TGS
MAX.		4.64	3.4P	30.0C	6.66	13.72	.11	.08	.46	.90	.90	.46
MIN.		-2.32	-3.42	-15.00	-13.72	-20.58	-.19	-.15	-.46	-.62	-.62	-.46
MEAN		13C.20	142.84	4A3.00	435.61	4.37	.61	104.63	109.14	107.70	104.63	104.63
STDEV		.979	1.625	4.433	3.417	4.063	.023	1.535	1.208	1.321	1.321	2.105

SUMMARY OF STATISTICAL DATA FC₂ FC 3C - 6
TIME IN 60 MINUTE INTERVALS FROM STAFF TO TAPF 167
THE MEAN VALUES ON CHANNELS 3 THRU 44 HAVE NO DIRECT MEANING
THESE MEAN VALUES HALF PEPK SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
(PEPS) = MICRON - STEAMS

CH _o	NAME	1	2	3	4	5	6	7	8	9	10	11
CH _o	NAPF	61 (HFS)	62 DFG*	63 (HFS)	64 1HET1 (HFS)	65 2HET1 (HFS)	66 2HET1 (HFS)	67 3HET1 (HFS)	68 3HET1 (HFS)	69 3HET2 (HFS)	70 3HET2 (HFS)	71 3HET2 (HFS)
MAX.	MAY.	37.00	20.9 0.37	0.00	5.40	277.83	6.10	209.23	31.50	145.65	11.70	34RLL1 (HFS)
MTR.	MTR.	22.65	0.00	-2.70	-2.70	-27.44	-5.40	-13.72	-3.60	-17.15	-1.60	(HFS)
MEAN	MEAN	2C.67	149.55	40.50	202.37	41.40	150.52	54.00	2C2.37	52.20	-4.50	(HFS)
STDEV	STDEV	2.643	49.532	.000	1.215	44.497	1.605	.26.133	2.648	26.493	49.50	49.50
CH _o	NAPF	12 (HFS)	13 2HPL3 (HFS)	14 3HPL1 (HFS)	15 3HPL2 (HFS)	16 3HPL3 (HFS)	17 4HL1 (HFS)	18 4HL1 (HFS)	19 4HL2 (HFS)	20 4HL2 (HFS)	21 4HL2 (HFS)	22 4HL2 (HFS)
MAX.	MTR.	61.20	62.10	65.70	45.00	315.56	76.10	185.65	10.80	316.54	10.80	1V2 (HFS)
MTR.	MTR.	-4.50	-3.60	-5.40	-13.50	-20.58	-4.50	-17.15	-2.70	-111.72	-2.70	(HFS)
MEAN	MEAN	70.20	52.20	76.50	73.80	195.51	47.70	195.94	52.20	60.15	52.20	586.53 -204.82
STDEV	STDEV	6.777	7.113	7.706	4.51	.000	37.493	1.924	20.430	2.523	61.290	1C2.03 1C2.03
CH _o	NAPF	22 (HFS)	24 (HFS)	25 (HFS)	26 (HFS)	27 (HFS)	28 3V3 (HFS)	29 3V4 (HFS)	30 4V1 (HFS)	31 4V2 (HFS)	32 4V3 (HFS)	33 4V4 (HFS)
MAX.	MTR.	33.79	316.54	269.95	260.68	158.27	158.27	297.92	297.92	232.75	204.92	C1 (HFS)
MTR.	MTR.	-30.723	-102.41	-65.17	-65.17	-27.93	-27.93	-83.79	-83.79	-55.17	-46.55	(HFS) 9.28
MEAN	MEAN	55F.60	614.46	530.67	400.32	446.68	493.43	614.46	605.15	586.53	586.53	-5.60
STDEV	STDEV	56.441	61.450	56.143	55.127	26.395	25.556	52.075	52.152	31.717	28.146	141.52 1.860
CH _o	NAPF	34 (HFS)	35 (HFS)	36 (HFS)	37 (HFS)	38 (HFS)	39 (PSI)	40 (PSI)	41 (PSI)	42 TNS A2	43 TONS A2	44 TONS A2
MAX.	MTR.	6.05	11.60	66.00	48.02	13.72	48.02	0.19	0.21	TNS 1F.67	TONS 15.80	TDS 22.26
MTR.	MTR.	-6.96	-6.26	-36.00	-27.44	-4P.02	-4P.02	-0.29	-0.30	-20.10	-15.67	25.85 -20.82
MEAN	MEAN	13C.20	143.84	483.00	432.15	435.61	1.37	1.37	0.51	105.55	1C7.70	-30.16
STDEV	STDEV	1.454	3.767	P.237	5.874	13.127	.066	.066	CAB	5.467	105.55	105.55 4.619

SUMMARY OF STATISTICAL DATA FOR FC 30 - 9
 THREE 44 MEAN INTERVALS FROM START TO TLPF 170
 THE MEAN VALUES IN CHANNELS 3 THRU 44 HAVE AN EFFECT MEANING
 THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE P1N. AND MAX. VALUES FOR THESE CHANNELS
 (MS) = WJCPC = SPATIANS

CH.	1	2	3	4	5	6	7	8	9	10	11
NAME	W1	W2	WHL1	WHT1	WHL1	WHL1	WHL1	WHL2	WHL2	WHT2	3HRL1
	(W5)	(W5)	(W5)	(W5)	(W5)	(W5)	(W5)	(W5)	(W5)	(W5)	(W5)
MAX.	44.02	219.34	.00	6.50	243.53	6.50	147.40	38.70	133.77	11.70	43.00
MIN.	22.65	.00	.00	-2.70	-27.44	-0.30	-13.72	-5.46	-17.15	-2.70	-5.40
MEAN	22.49	169.44	.00	45.00	202.37	37.00	133.77	51.30	16.94	51.30	46.60
STDEV	3.614	31.043	.000	1.120	44.854	1.664	25.012	2.647	2.320	2.320	7.425
CH.	12	13	14	15	16	17	18	19	20	21	22
NAME	3HRL2	3HRL3	3HOT2	3HOT3	4HLL1	4HLL1	4HLL1	4HLL2	4HLL2	1V1	1V2
	(W5)	(W5)	(W5)	(W5)	(W5)	(W5)	(W5)	(W5)	(W5)	(W5)	(W5)
MAX.	46.60	50.40	56.70	54.20	.00	250.39	66.60	150.92	11.70	32.54	59.50
MIN.	-4.50	-6.30	-4.50	-2.10	.00	-41.16	-4.50	-17.15	-7.20	-11.72	-20.46
MEAN	6.30	50.40	76.50	72.00	.00	16P.07	45.00	202.37	49.50	60.515	1C52.03
STDEV	6.565	6.625	7.771	4.201	.000	34.935	3.067	26.650	2.756	63.220	170.034
CH.	23	24	25	26	27	28	29	30	31	32	33
NAME	2V1	2V2	3V1	3V2	2V3	3V4	4V1	4V2	4V3	4V4	C1
	(W5)	(W5)	(W5)	(W5)	(W5)	(W5)	(W5)	(W5)	(W5)	(W5)	(W5)
MAX.	03.10	270.30	270.05	280.61	204.62	145.51	316.54	307.23	214.13	195.51	6.12
MIN.	-270.30	-53.10	-74.44	-63.75	-27.53	-27.93	-53.10	-74.48	-55.46	-55.46	-5.60
MEAN	54.629	614.46	530.67	400.64	446.68	493.43	614.46	605.15	56.53	56.53	145.00
STDEV	64.749	16.426	61.664	60.751	26.655	25.562	57.474	56.283	34.136	30.103	1.775
CH.	34	35	36	37	38	39	40	41	42	43	44
NAME	C2	C3	L1	C1	P1	P2	P1	TGNS	TGNS	TGNS	TGNS
	(W5)	(W5)	(W5)	(W5)	(W5)	(W5)	(W5)	(W5)	(W5)	(W5)	(W5)
MAX.	2.48	6.24	57.00	10.20	61.74	.18	.15	14.36	23.69	31.59	
MIN.	-5.30	-5.60	-30.00	-27.44	-54.68	-0.22	-0.32	-17.95	-27.26	-30.87	
MEAN	126.88	140.36	4P3.00	435.61	1.3A	.52	.52	105.55	104.53	105.55	
STDEV	1.303	2.023	8.446	6.227	15.482	.059	.068	4.564	6.142	8.628	

SUMMARY OF STATISTICAL DATA FOR
TIME IN 60 MINUTE INTERVALS FROM START OF TAPF - 10
THIS MEAN VALUES ON CHANNELS 3 THRU 44 HAVE NO DIRECT MEANING
THESE MEAN VALUES HAVE BEEN SURFACTED FROM THE MTN. AND MAX. VALUES FOR THESE CHANNELS

CH#	NAME	1	2	3	4	5	6	7	8	9	10	11
	(MPH)	V1	V2	1HL1	1HT1	2HL1	2HT1	3HL1	3HT1	3HL2	3HT2	3HL4
MAX.	40.51	219.34	0.00	(MS)	(MS)							
MIN.	10.18	0.97	0.00	3.60	144.06	46.80	72.03	11.70	72.03	6.30	21.60	-0.50
MEAN	27.75	170.46	0.00	-2.70	-6.86	-5.40	-3.43	-8.10	-6.66	-1.60	-19.67	-19.67
STDEV	4.051	14.64	0.000	47.70	181.79	36.90	123.48	56.70	169.65	55.10	42.30	4.452
CH#	NAME	12	13	14	15	16	17	18	19	20	21	22
	(PSI)	3HPL3	3HPT2	3HPT3	4HL1	4HT1	4HL2	4HT2	4V1	4V1	4V2	4V2
MAX.	25.20	21.60	60.30	14.40	(MS)	(MS)						
MIN.	-12.60	-9.00	-3.60	-1.80	0.00	123.48	27.00	62.32	9.90	223.44	446.66	446.66
MEAN	76.20	56.70	76.50	70.20	0.00	-6.86	-5.50	-6.96	-4.50	-74.48	-145.56	-145.56
STDEV	2.400	1.842	1.961	1.375	0.000	174.93	50.40	192.05	46.80	55.94	1033.41	1033.41
CH#	NAME	23	24	25	26	27	28	29	30	31	32	33
	(PSI)	2V1	2V2	3V1	3V2	3V3	3V4	4V1	4V2	4V3	4V4	C1
MAX.	65.17	242.06	149.96	158.27	102.41	102.41	167.58	102.41	(MS)	(MS)	(MS)	(MS)
MIN.	-242.06	-55.95	-55.95	-55.95	-18.62	-18.62	-65.17	-55.95	93.10	93.10	4.64	4.64
MEAN	567.91	605.15	521.36	351.02	426.88	484.12	605.15	595.84	56.53	56.53	143.04	143.04
STDEV	3C.118	32.639	29.654	3C.070	13.005	13.203	24.063	24.016	16.098	13.117	1.450	1.450
CH#	NAME	34	35	36	37	38	39	40	41	42	43	44
	(PSI)	C2	C3	L1	C1	(MS)	P1	P2	/1	42	43	44
MAX.	3.448	5.90	42.00	10.29	37.73	(PSI)	(PSI)	(PSI)	TDS	TDS	TDS	TDS
MIN.	-3.45	-4.64	-15.00	-13.72	-27.44	-0.11	-0.10	-0.05	10.77	12.62	17.95	17.95
MEAN	136.88	145.00	450.00	435.61	435.61	1.41	-0.21	-14.36	-9.33	-13.64	-19.67	-19.67
STDEV	1.005	1.678	5.436	6.536	6.536	0.044	0.54	104.11	106.46	106.46	204.83	204.83
									2.501	3.186	4.452	4.452

SUMMARY OF STATISTICAL DATA FOR
TIME THRU 64 MINUTE INTERVALS FROM START OF TAPE ¹₂
THE MEAN VALUES OF CHANNELS 3 THRU 44 HAVE NO DIRECT MEANING.
THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
(MS) = MTSO - STRAINS

CH.	1	2	3	4	5	6	7	8	9	10	11
NAME	61	62	1PL1 (MS)	1HT1 (MS)	2HT1 (MS)	3HT1 (MS)	3HT1 (MS)	3HT1 (MS)	3HT2 (MS)	3HT2 (MS)	3HAL1 (MS)
MAX.	36.68	179.46	165.22	3.60	137.20	6.30	18.08	25.20	76.69	6.30	16.60
MIN.	22.01	65.76	-13.77	-1.80	-6.86	-1.80	-3.43	-5.96	-6.96	-9.90	-2.70
MEAN	25.03	159.52	133.72	44.10	1P1.79	33.30	10.97	47.70	168.65	50.40	41.40
STDEV	2.445	11.031	20.857	.703	15.083	.752	5.440	.419	8.476	.04	1.768
CH.	12	13	14	15	16	17	18	19	20	21	22
NAME	3HFL3 (MS)	3HRT1 (MS)	3HRT2 (MS)	3HRT3 (MS)	4HT1 (MS)	4HT1 (MS)	4HT1 (MS)	4HT2 (MS)	4HT2 (MS)	1V1 (MS)	1V2 (MS)
MAX.	25.20	36.50	40.50	.00	113.19	19.40	102.50	10.80	214.13	418.65	
MIN.	-3.69	-1.30	-3.60	.00	-6.86	-5.50	-3.43	-13.50	-93.79	-15.27	
MEAN	6P.40	6P.40	6P.40	.00	174.03	43.20	162.66	48.60	586.53	1024.10	
STDEV	2.154	1.304	4.107	.617	.000	10.312	1.036	8.478	1.736	30.599	57.469
CH.	23	24	25	26	27	28	29	30	31	32	33
NAME	2V1 (MS)	2V2 (MS)	3V1 (MS)	3V2 (MS)	3V3 (MS)	4V1 (MS)	4V1 (MS)	4V2 (MS)	4V3 (MS)	4V4 (MS)	C1 (MS)
MAX.	65.17	214.13	14P.96	14P.66	102.41	102.41	121.03	121.03	121.03	74.46	
MIN.	-214.13	-65.17	-37.24	-46.55	-1P.62	-16.62	-46.55	-46.55	-46.55	-46.55	
MEAN	567.91	565.84	512.05	3C1.02	446.68	464.12	605.15	595.84	596.53	566.53	148.45
STDEV	33.520	35.755	26.660	27.361	13.635	13.022	21.658	21.658	21.658	12.624	3.775
CH.	34	35	36	37	38	39	40	41	42	43	44
NAME	C2 (MS)	C2 (MS)	L1 (MS)	C1 (MS)	P1 (PSI)	P2 (PSI)	P1 (PSI)	P1 (PSI)	A2 TUNS	TUNS	TUNS
MAX.	7.37	4.64	.00	1C.29	17.15	*14	*14	*14	8.62	8.62	14.36
MIN.	-3.48	-3.46	.00	-13.72	-30.87	-0.23	-0.23	-0.23	-12.21	-10.05	-13.64
MEAN	136.88	139.20	.00	435.61	1.41	.52	.52	.52	104.83	107.70	105.55
STDEV	1.065	1.745	.000	4.136	6.312	.049	.049	.049	2.687	2.469	3.217

SUMMARY OF STATISTICAL DATA FOR EC 31 - 2
 TYPED IN 6 MINUTE INTERVALS FROM START OF TAPE
 THE MEAN VALUES ON CHANNELS 3 THRU 44 HAVE NO DIRECT MEANING
 THESE MEAN VALUES HALF REFLA SURFACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
 (MEG) = MICRORADIOMETERS

SUMMARY OF STATISTICAL DATA FOR FIGURE 31 - 3
 TIME IN 60 MINUTE INTERVALS FROM START OF TAPE - 4
 THE MEAN VALUES OF CHANNELS 3 THRU 46 WERE ADJUSTED
 THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
 (MS) = MEDIUM - STRAINS

CH.	NAME	1	2	3	4	5	6	7	8	9	10	11
	(MPH)	6.2	1H1	1H1	2H1	2H1	3H1	3H1	3H1	3H1	3H1	3H1
MAX.	REG.	(MS)	(PS)	(MS)	(PS)	(MS)	(MS)	(MS)	(MS)	(PS)	(PS)	(MS)
MIN.	REG.	149.43	305.27	4.30	281.26	9.90	274.40	13.50	212.66	14.40	27.30	
MEAN	REG.	-37.64	-37.73	-2.70	-30.87	-5.40	-17.15	-3.60	-20.53	-1.60	-5.40	
STDDEV	REG.	21.37	44.55	45.00	205.60	33.30	116.62	46.60	202.37	52.20	43.20	
	REG.	26.00	2P.342	57.914	1.780	47.571	1.669	28.653	2.474	30.184	8.665	
CH.	NAME	12	13	14	15	16	17	18	19	20	21	22
	3HPL3	3HPL3	3HPT1	3HPT2	3HPT3	4H1	4H1	4H1	4H1	4H1	IV1	IV2
MAX.	(PS)	(MS)	(MS)	(PS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
MIN.	F1.90	61.00	102.60	72.30	.00	353.29	12.60	236.67	14.40	381.71	726.18	
MEAN	-6.30	-2.60	-9.20	-9.20	.00	-34.30	-4.50	-20.58	-3.60	-102.41	-204.82	
STDEV	F1.10	46.60	79.20	70.20	.00	155.51	45.00	209.23	52.20	595.84	1033.41	
	F.430	7.758	11.586	1C.320	.000	45.129	1.675	34.63	3.087	66.010	126.663	
CH.	NAME	23	24	25	26	27	28	29	30	31	32	33
	2V1	2V2	3V1	3V2	3V3	3V4	4V1	4V2	4V3	4V4	C1	
MAX.	(PS)	(MS)	(MS)	(PS)	(MS)	(MS)	(PS)	(PS)	(PS)	(MS)	(MS)	(MS)
MIN.	c3.10	207.23	307.23	267.62	232.75	204.82	316.54	297.92	269.99	251.37	10.44	
MEAN	-307.23	-102.41	-74.45	-74.45	-27.93	-27.43	-03.30	-83.75	-65.17	-55.96	-9.26	
STDEV	55F.60	675.15	53C.67	46C.33	44C.66	493.43	614.46	605.15	595.84	546.53	146.16	
	62.761	64.467	62.937	61.636	30.362	29.521	60.703	58.768	3C.461	35.957	1.665	
CH.	NAME	24	25	26	27	28	29	30	31	32	33	
	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(PS)	(PS)	(PS)	(PS)		
MAX.	6.12	0.28	.00	13.72	51.45	*21	*25	21.54	17.23	1f.67		
MIN.	-6.06	-7.26	.00	-27.44	-65.17	-.37	-.39	-24.41	-22.26	-25.85		
MEAN	12F.04	142.66	.00	435.61	1.41	.52	.52	106.26	107.70	107.70		
STDEV	1.434	2.186	.000	6.275	.066	.078	.078	5.742	5.156	6.140	7.940	

SUMMARY OF STATISTICAL DATA FCP
TIME IN 60 MINUTE INTERVALS FROM START OF TAPP
THE MEAN VALUES OF CHANNELS 3 THRU 6 HAVE NO DIRECT MEANING
THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE PTN. AND MAX. VALUES FOR THESE CHANNELS

CH.	NAME	1	2	3	4	5	6	7	8	9	10	11
	(MS)	61	W2	1HCL1 (MS)	1HT1 (PS)	2H11 (MS)	3HL1 (MS)	3HL2 (MS)	3HT2 (MS)	3HT1 (MS)	3HT2 (MS)	3HPL1 (MS)
MAX.	34.45	219.34	34.30	2.70	78.89	2.70	34.30	15.30	54.98	3.60	10.60	
MIN.	19.14	16.64	.00	-3.43	-5.40	-6.86	-3.50	-3.50	-3.43	-1.80	-1.80	
MEAN	25.52	180.43	.00	45.00	178.36	33.30	109.76	48.60	165.22	51.30	40.50	
STDEV	7.659	14.417	1.427	.502	6.603	.539	2.592	.732	5.666	.632	.956	
	(MS)	12	13	14	15	16	17	18	19	20	21	22
NAME	3HRL2 (MS)	2HPL3 (MS)	3HPT1 (MS)	3HPT2 (MS)	3HPT3 (MS)	4HL1 (MS)	4HT1 (MS)	4HT2 (MS)	4HT2 (MS)	4V1	4V1	4V2
MAX.	21.50	27.00	53.10	72.80	.00	66.60	26.10	51.45	6.30	(MS)	(MS)	(MS)
MIN.	-3.60	-4.50	-3.60	-3.60	.00	-3.43	-4.50	-3.43	-3.43	186.20	372.40	
MEAN	67.40	46.80	75.60	60.40	.00	174.93	45.00	192.04	45.50	-55.86	-93.10	
STDEV	7.566	1.141	2.322	3.729	.CC0	6.582	1.051	4.776	4.744	586.53	1014.79	
	(MS)	23	24	25	26	27	28	29	30	31	32	33
NAME	2V1 (MS)	2V2 (MS)	3V1 (MS)	3V2 (MS)	3V3 (MS)	4V1 (MS)	4V1 (MS)	4V2 (MS)	4V3 (MS)	4V4 (MS)	4V4 (MS)	C1
MAX.	55.86	150.27	111.72	111.72	83.79	53.10	130.34	130.34	53.10	74.48	74.48	
MIN.	-148.66	-55.46	-37.24	-27.43	-18.62	-15.62	-37.24	-37.24	-27.93	-27.93	-27.93	
MEAN	567.51	505.84	512.05	3F1.71	466.68	464.12	605.15	605.15	566.93	566.93	566.93	
STDEV	26.003	2H.335	22.021	22.642	12.600	12.172	16.907	16.907	14.477	14.477	14.477	
	(MS)	34	35	36	37	38	39	40	41	42	43	44
NAME	(MS)	(MS)	(MS)	L1	S1 (MS)	S2 (MS)	P1 (PSI)	P2 (PSI)	T0NS	T0NS	T0NS	A4
MAX.	3.48	4.64	.00	4.86	20.58	.12	.11	.11	8.62	8.62	7.90	
MIN.	-2.45	-2.32	.00	-13.72	-20.56	.18	.28	.28	-7.18	-7.18	-6.62	
MEAN	140.36	139.20	.00	420.04	435.61	1.44	.95	.95	106.26	106.26	105.55	
STDEV	6.53	1.653	.000	3.685	4.086	.044	.022	.022	2.125	2.125	2.261	

SUMMARY OF STATISTICAL DATA FOR FG 31 - 5
 TIME IN 6 MINUTE INTERVALS FROM START OF TAPE 7
 THE MEAN VALUES ON CHANNELS 3 THRU 44 HAVE NO DIRECT MEANING
 THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
 (MS) = MICRO - STAINS

CH.	NAME	1	2	3	4	5	6	7	8	9	10	11	
	(MS)	61	62	63	64	65	66	67	68	69	70	71	
MAX.	DEG1	32.54	200.37	37.73	1.8C	72.03	2.70	61.74	24.30	54.68	7.20	10.80	
MIN.	DEG2	9.97	.00	-1.7C	-3.43	-5.40	.00	-3.60	-3.43	-1.60	-1.60	-1.60	
MEAN	DEG3	22.65	170.46	45.00	170.36	32.40	106.33	4.0.60	182.22	51.20	40.50	40.50	
STDEV	DEG4	14.126	1.73C	.525	.112	.550	.984	.526	.526	.6520	.647	1.070	
	(MS)	3HPL1	3HPL2	3HPL3	3HPT1	3HPT2	3HPT3	4HL1	4HT1	4HL2	4V1	4V2	
MAX.	(MS)	36.00	55.8C	55.50	55.50	55.50	55.50	75.46	35.10	61.74	(MS)	(MS)	
MIN.	(MS)	-2.70	-2.70	-2.70	-2.70	-2.70	-2.70	-2.43	-2.70	-3.43	6.30	15.27	
MEAN	(MS)	65.40	46.50	75.60	69.40	69.40	69.40	174.93	45.00	192.06	-1.6C	-37.24	
STDEV	(MS)	2.6A3	1.172	4.085	5.087	5.087	5.087	6.716	1.167	5.747	49.50	-74.46	
	(MS)	23	24	25	26	27	28	29	30	31	32	33	
MAX.	2V1	2V2	3V1	3V2	3V3	3V4	4V1	4V2	4V3	4V4	C1	C1	
MIN.	(MS)												
MEAN	37.24	121.03	121.02	131.34	102.41	102.41	102.41	130.34	130.34	93.10	74.48	3.4E	
STDEV	126.24	-46.55	-37.24	-37.24	-18.62	-18.62	-18.62	-55.66	-46.55	-27.93	-27.93	-2.32	
	(MS)	577.22	505.84	512.05	381.71	446.38	446.12	605.15	565.84	566.53	566.53	140.36	140.36
STDEV	(MS)	23.056	25.540	21.427	21.794	11.450	11.292	18.977	19.145	13.774	11.132	1.413	1.413
	(MS)	34	35	36	37	38	39	40	41	42	43	44	
MAX.	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(PSI)	(PSI)	TCNS	TONS	TONS	TONS	
MIN.	(MS)	3.648	4.64	.00	-13.72	17.15	.11	.08	5.74	5.03	7.00	12.21	
MEAN	(MS)	-2.32	-2.32	.00	-24.01	-24.01	-.10	-.14	-5.74	-10.05	-10.77	-10.77	
STDEV	(MS)	130.04	130.04	.00	430.64	435.61	1.44	.67	105.55	111.29	100.14	104.63	
	(MS)	.049	1.611	.0000	4.913	4.913	.035	1.480	1.224	2.054	2.054	2.054	

SUMMARY OF STATISTICAL DATA FOR
TYP IN 6 MINUTE INTERVALS FROM START TO TAPF - 6
THE MEAN VALUES ON CHANNELS 3 THRU 44 HAVE NO DIRECT MEANING
THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
(MS) = MICC - STRAINS

CH.	NAME	1	2	3	4	5	6	7	8	9	10	11
	(VPP)	V1	V2	1HL1 (MS)	1HT1 (PS)	2HL1 (MS)	2HT1 (MS)	3HL1 (MS)	3HT1 (MS)	3HL2 (MS)	3HT2 (PS)	3HRL1 (MS)
MAY.	22.41	199.40	17.15	1.80	4A.02	2.70	116.62	41.16	2.70	9.90		
MIN.	17.54	6.97	.00	-.60	-3.43	-5.40	-3.60	-3.43	-3.60	-4.00		
MEN	24.56	178.46	.00	44.10	17P.36	31.50	1C2.90	47.70	185.22	5C.40	-4.00	
STREV	2.585	13.355	.514	.441	4.213	.550	4.365	1.334	4.511	.530	.653	
CH.	NAME	12	13	14	15	16	17	18	19	20	21	22
	(VPP)	3WPL3 (PS)	3WPT1 (PS)	3WRT2 (PS)	3HP73 (MS)	4HL1 (PS)	4HT1 (MS)	4HL2 (MS)	4HT2 (MS)	4V1 (MS)	4V2 (MS)	
MAY.	77.30	42.30	27.90	37.90	.00	59.31	27.00	44.50	4.50	13C.34	25I.37	
MIN.	-77.20	-4.50	-4.00	-5.00	.60	-3.43	-3.60	-3.43	-3.60	-4.00	-4.00	
MEN	67.50	45.90	74.70	66.60	.00	174.93	44.10	142.05	49.50	57.22	102.41	
STREV	1.580	1.495	1.145	2.020	.000	4.701	1.079	3.013	.544	21.146	105.48	
CH.	NAME	23	24	25	26	27	28	29	30	31	32	33
	(VPP)	2V1	2V2 (MS)	3V1 (MS)	3V2 (MS)	3V3 (MS)	4V4 (MS)	4V1 (MS)	4V2 (MS)	4V4 (MS)	4V4 (MS)	C1
MAY.	37.24	167.58	121.03	111.72	74.48	74.48	121.03	121.03	65.17	65.17		
MIN.	-158.27	-47.55	-37.24	-27.93	-1R.62	-9.31	-37.24	-37.24	-27.93	-27.93		
MEN	577.22	595.84	512.05	381.71	446.99	464.12	555.64	555.64	586.53	586.53		
STREV	23.652	15.796	20.404	17.072	11.809	16.831	16.794	16.794	12.865	12.865	146.16	
CH.	NAME	34	35	36	37	38	39	40	41	42	43	44
	(VPP)	C2	C3	L1	C1	P1	P2	A1	A2	A3	A4	
MAY.	3.49	11.60	.00	6.86	10.29	.11	.10	5.03	TNS	TNS	TNS	
MIN.	-2.32	-4.64	.00	-17.15	-20.58	-.19	-.15	-5.74	-5.74	6.46	6.46	
MEN	135.20	138.64	.00	430.04	435.61	1.46	.56	105.55	110.57	-7.18	-7.18	
STREV	.010	3.000	.000	3.45	4.538	.040	.032	1.263	1.101	104.83	104.83	
										1.405	2.128	

SUMMARY OF STATISTICAL DATA FOR FG 31 - 7
 TIME IN MINUTE INTERVALS FROM START OF TAPF
 THE MEAN VALUES ON CHANNELS 3 THRU 44 HAVE NO DIRECT MEANING
 THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
 (PSI) = MICRO - STRAINS

CH#	1	2	3	4	5	6	7	8	9	10	11
NAME	W1	W2	WHL1	WHL1	WHL1	WHL1	WHL1	WHL1	WHL2	WHL2	WHL2
	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)
MAX.	34.45	199.40	154.35	3.60	101.79	6.30	126.51	22.50	2.61	7.20	36.70
MIN.	10.46	104.67	.00	-1.80	-10.29	-5.40	-13.72	-5.40	.90	-1.80	4.140
MEAN	26.48	169.49	.00	45.00	1P5.22	36.90	120.05	48.60	188.65	49.50	2.835
STDEV	2.762	6.595	5.003	.773	20.557	.0830	6.238	1.085	12.140	.053	
CH#	12	13	14	15	16	17	18	19	20	21	22
NAME	3HPL1	3HPL3	3HPT1	3HPT2	3HPT3	4HTL1	4HIL2	4HT2	1V1	1V1	1V2
	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)
MAX.	36.00	37.30	39.60	21.60	.00	144.06	16.20	123.48	9.90	26.68	474.81
MIN.	-4.50	-4.50	-1.80	-4.50	.00	-6.86	-4.50	-6.86	-2.70	-83.79	-176.86
MEAN	6.60	72.00	67.50	.00	178.36	45.90	195.51	49.50	556.53	1024.10	
STDEV	2.344	2.340	.072	.000	15.986	1.073	12.449	1.282	42.698	78.467	
CH#	23	24	25	26	27	28	29	30	31	32	33
NAME	2V1	2V2	3V1	3V2	3V3	3V4	4V1	4V2	4V3	4V4	C1
	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)
MAX.	65.17	260.09	242.06	242.06	130.65	130.65	251.37	251.37	146.66	135.65	10.44
MIN.	-260.09	-65.17	-55.16	-55.16	-27.53	-18.62	-74.46	-55.86	-46.55	-46.55	-10.44
MEAN	567.51	545.84	521.36	521.36	466.88	466.88	605.15	595.84	586.53	566.53	147.32
STDEV	47.456	30.422	19.240	18.661	35.964	35.614	22.431	20.364	4.405		
CH#	34	35	36	37	38	39	40	41	42	43	44
NAME	R2	C3	L1	R1	R2	P1	P2	A1	A2	A3	A4
	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)
MAX.	3.48	5.12	.00	10.29	41.16	.14	.15	17.21	10.05	12.21	16.51
MIN.	-4.64	-3.48	.00	-20.56	-41.16	-.25	-.25	-13.64	-10.05	-13.64	-17.45
MEAN	142.94	.00	435.61	1.49	.99	105.55	109.14	107.70	105.55	107.70	
STDEV	1.084	.000	5.0126	.054	.063	3.0155	1.20160	3.0339	4.0140		

FG 31 - 8
TIME IN 6 MINUTE INTERVALS FROM START OF TAPE 112
THE MEAN VALUES OF CHANNELS 3 THRU 44 HAVE NO DIRECT MEANING.
THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
(MS) = MICRO-STRAINS

CH#	NAME	1	2	3	4	5	6	7	8	9	10	11
CH#	NAME	1	2	3	4	5	6	7	8	9	10	11
NAME	(MS)	BL	BL									
MAX.	(MS)	0.54	0.40	0.52	0.50	0.40	0.40	0.40	0.40	0.40	0.40	0.40
MIN.	(MS)	-2.32	-2.32	-2.32	-2.32	-2.32	-2.32	-2.32	-2.32	-2.32	-2.32	-2.32
MEAN	(MS)	135.72	146.16	146.16	146.16	146.16	146.16	146.16	146.16	146.16	146.16	146.16
STDEV	(MS)	.691	1.00	2.075	2.075	2.075	2.075	2.075	2.075	2.075	2.075	2.075
CH#	12	13	14	15	16	17	18	19	20	21	22	
NAME	3HRL2	3HRL3	3HRL1	3HRT2	3HPT3	4HL1	4HT1	4HL2	4HT2	JV1	IV2	
NAME	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	
MAX.	(MS)	11.70	7.20	21.60	31.50	20.58	20.58	1.80	5.50	93.10	2.70	
MIN.	(MS)	-2.70	-9.0	-2.70	-1.80	-3.43	-2.70	-3.43	-3.43	-37.24	-2.90	
MEAN	(MS)	6.540	5.210	7.110	7.740	17.403	49.50	165.65	52.20	605.15	1033.41	
STDEV	(MS)	.874	.575	1.306	2.012	.000	1.646	1.0780	.457	11.812	17.453	
CH#	23	24	25	26	27	28	29	30	31	32	33	
NAME	2V1	2V2	3V1	3V2	3V3	3V4	4V1	4V2	4V3	4V4	C1	
NAME	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	
MAX.	(MS)	27.03	65.17	65.17	65.17	65.17	65.17	65.17	65.17	65.17	3.48	
MIN.	(MS)	-65.17	-37.24	-37.24	-37.24	-37.24	-37.24	-37.24	-37.24	-37.24	-2.32	
MEAN	(MS)	567.51	605.15	521.36	391.02	437.57	464.12	605.15	586.53	586.53	142.68	
STDEV	(MS)	11.689	14.511	13.507	13.501	4.0701	5.027	10.147	8.099	6.653	1.558	
CH#	34	35	36	37	38	39	40	41	42	43	44	
NAME	R2	R3	L1	S1	S2	P1	P2	J1	J2	J3	J4	
NAME	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	
MAX.	(MS)	4.64	.00	10.29	6.66	.09	.06	3.59	2.67	2.67	73.24	
MIN.	(MS)	-2.32	-2.32	-6.66	-10.29	-1.15	-0.06	-3.59	-2.15	-2.67	-13.64	
MEAN	(MS)	135.72	146.16	437.16	435.61	1.46	.98	106.26	112.01	106.85	35.00	
STDEV	(MS)	.691	1.00	2.075	2.075	.035	.018	.677	.733	.752	20.367	

SUMMARY OF STATISTICAL DATA FOR FIG 31 - 162
 FIG. IN 60 MINUTE INTERVALS FROM START OF TAPF
 THE MEAN VALUES ON CHANNELS 3 THRU 44 HAVE NO EFFECT MEANING
 THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
 (see) - VIBED - STRAINS

CH#	NAME	1	2	3	4	5	6	7	8	9	10	11
	(VPH)	W1	W2	W1	W1	2H1	2H1	3HL1	3HL1	3HL2	3HL2	3HL1
MEY.	44.98	140.40	367.01	(MS)	(MS)	140.63	5.80	146.76	36.70	72.03	5.40	(MS)
MTH.	17.96	.00	.00	-	-	-6.56	-4.90	-3.43	-4.50	-6.86	-1.80	-1.60
MEAN	20.99	110.64	.00	42.30	181.79	32.40	102.50	48.66	155.22	46.50	38.70	4.50
STDEV	4.758	40.218	8.114	.660	12.501	.742	6.130	1.347	8.436	.646	1.756	
	(VSI)											
CH#	NAME	12	13	14	15	16	17	18	19	20	21	22
	3HCL2	3HCL3	3HDT1	3HDT2	3HPT3	4HL1	4HL1	4HT1	4HT2	4V1	IV2	
MEY.	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	
MAY.	25.70	40.50	25.20	26.10	.00	116.62	82.32	11.70	223.44	341.02		
MTH.	-7.20	-5.40	-2.70	-1.10	.00	-3.43	-3.60	-3.43	-14.48	-167.58		
MEAN	65.70	46.80	54.90	68.40	.00	16.07	43.20	186.65	42.30	56.53	1014.79	
STDEV	2.149	1.026	1.073	1.073	.000	11.610	1.584	6.521	6.481	31.360	50.702	
	(VSI)											
CH#	NAME	23	24	25	26	27	28	29	30	31	32	33
	2V1	2V2	3V1	3V2	3V3	3V4	4V1	4V2	4V3	4V4	C1	
MEY.	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)		
MAY.	55.65	195.51	159.27	258.27	102.41	102.41	167.58	155.27	93.10	83.79	10.44	
MTH.	-156.20	-65.17	-37.24	-46.55	-27.53	-18.62	-46.55	-55.86	-27.93	-37.24	-4.64	
MEAN	567.51	545.84	512.05	351.02	446.88	446.12	595.64	505.84	586.53	586.53	141.52	
STDEV	30.773	33.063	20.632	30.420	14.439	14.449	25.324	26.251	16.681	14.036	1.609	
	(PSI)											
CH#	NAME	24	25	26	27	28	29	30	31	32	33	44
	(PS)	(PS)	(PS)	(PS)	(PS)	(PS)	(PS)	(PS)	(PS)	(PS)	A4	
MEY.	5.80	12.76	.00	10.79	24.01	.17	.14	10.77	7.18	TONS	TONS	TONS
MAY.	-4.64	-5.60	.00	-10.72	-10.87	.25	.23	-5.33	-7.00	9.33		-45.65
MTH.	128.76	130.20	.00	435.61	432.18	1.46	.57	111.24	114.16	112.73	46.67	
MEAN	1.1C6	3.342	.0000	4.279	6.375	.036	.049	2.246	2.037	20.714		

SUMMARY OF STATISTICAL DATA FOR FG 31 - 10
 TIME IN 6 MINUTE INTERVALS FROM START OF TAPP 163
 THE MEAN VALUES ON CHANNELS 3 THRU 6 HAVE NO DIRECT MEANING
 THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
 (MS) = MICROC - STRAINS

CH#	NAME	1	2	3	4	5	6	7	8	9	10	11
	(WPH)	W1	W2	WHL1	1WHT1	2WHT1	3WLT1	3WLT2	3WLT2	3WLT1	3WLT1	3WLT1
HAY.	36.05	325.01	0.00	(PS)	(PS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
MIN.	16.51	0.00	0.00	4.50	137.20	68.60	26.80	65.17	5.40	22.50	22.70	22.70
MIN.	24.49	143.55	0.00	-2.70	-6.86	-6.30	-13.72	-3.60	-6.86	-1.80	39.60	39.60
STREFV	2.524	51.23	0.000	45.00	181.79	36.90	113.19	5.40	185.22	51.30	0.63	0.718
				1.257	13.160	0.735	5.339	1.238	F.650	F.653		
CH#	12	13	14	15	16	17	18	19	20	21	22	
	(WPH)	3WPL2	3WPL3	3WHT1	3WHT2	4WLT1	4WLT2	4WLT2	4WLT1	4WLT1	4WLT2	
MIN.	72.90	45.00	26.10	17.10	0.00	106.33	50.40	78.89	9.90	176.89	344.47	
MIN.	-2.70	-2.70	-5.00	-2.70	0.00	-6.86	-2.70	-3.43	-3.60	-83.79	-136.65	
PFEN	67.50	4F.60	52.2C	70.20	0.00	166.07	45.00	185.22	45.90	555.84	1024.10	
STREFV	2.677	2.046	3.856	1.479	0.000	11.690	2.072	6.488	0.451	32.406	55.940	
CH#	23	24	25	26	27	28	29	30	31	32	33	
	(PS)	2V1	2V2	3V1	3V2	3V3	3V4	4V1	4V3	4V4	C1	
MIN.	55.96	176.99	195.51	176.89	97.10	102.41	139.65	(MS)	(MS)	(MS)	(MS)	
MIN.	-176.90	-46.55	-46.55	-37.24	-27.93	-18.62	-55.66	130.34	111.72	63.10	4.64	
MIN.	567.61	505.64	521.36	351.52	446.89	4P4.12	605.15	-46.55	-46.55	-46.55	-9.26	
STREFV	32.454	34.577	30.502	3C.7P4	13.772	13.364	26.235	27.0151	17.368	14.497	1.561	
CH#	34	35	36	37	38	39	40	41	42	43	44	
	(MS)	(PS)	(PS)	A3	A4							
WPH.	2.32	4.64	0.00	10.29	17.15	0.12	10.05	9.33	10.77	T0NS	T0NS	
MIN.	-3.48	-4.64	0.00	-13.77	-27.44	-0.21	-9.33	-7.90	-6.62	141.45	25.13	
PFEN	131.08	141.52	0.00	435.61	432.16	1.48	0.00	109.65	114.16	112.73	38.05	
STREFV	1.025	1.652	0.000	4.036	6.461	0.47	0.445	2.491	2.168	2.499	9.480	

SUMMARY OF STATISTICAL DATA FOR FG 32 - 1
TIME IN 60 MINUTE INTERVALS FROM START OF TAPE 15
THE MEAN VALUES ON CHANNELS 3 THRU 44 HAVE BEEN DIRECT MEANING
THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
(MS) = MEDIUM - STRAINS

CH# NAME	1 (PSI)	2 (PSI)	3 (PSI)	4 (PSI)	5 (PSI)	6 (PSI)	7 (PSI)	8 (PSI)	9 (PSI)	10 (PSI)	11 (PSI)
MAX.	34.13	19.40	72.03	2.70	41.16	1.40	20.56	13.50	27.44	1.90	5.40
MIN.	14.04	19.54	-70.20	.00	-3.43	-4.50	-3.43	-3.60	-1.90	-1.80	-1.80
MFLN	20.74	16.46	33.64	44.10	181.79	52.20	178.36	53.10	184.94	46.80	48.60
STDEV	4.0433	13.604	8.233	.475	2.650	.599	1.072	.684	3.574	.508	.604
CH# NAME	12 3HPL2	13 3HPL3	14 3HPT1	15 3HPT2	16 3HPT3	17 4HLL	18 4HTL	19 4HL2	20 4HT2	21 1V1	22 1V2
MAX.	26.10	22.50	30.60	12.60	.00	37.73	20.87	4.50	102.41	102.41	196.20
MIN.	-8.10	-5.40	-f.1C	-6.60	.00	-3.43	-3.60	-17.10	-27.93	-55.66	-55.66
MFLN	64.90	59.50	25.20	46.50	.00	192.08	52.20	192.08	177.22	1014.79	32.026
STDEV	1.070	1.158	6.850	.963	.000	3.108	1.016	2.312	1.504	17.829	
CH# NAME	23 2V1	24 2V2	25 3V1	26 3V2	27 3V3	28 3V4	29 4V1	30 4V2	31 4V3	32 4V4	33 C1
MAX.	37.24	111.72	93.10	65.17	65.17	74.48	74.48	63.79	74.48	3.48	
MIN.	-102.41	-37.24	-27.63	-16.62	-16.62	-27.93	-27.93	-16.62	-16.62	-3.48	
MFLN	577.22	56.53	512.05	446.66	454.12	586.53	586.53	586.53	586.53	141.52	
STDEV	17.592	19.231	17.056	8.819	9.022	14.053	15.297	12.131	9.411	1.542	
CH# NAME	34 (PSI)	35 (PSI)	36 1	37 2	38 1	39 P1	40 P2	41 P1	42 42	43 A3	44 A4
MAX.	7.92	7.92	3.46	10.20	.10	.11	.11	.11	.11	TONS	TONS
MIN.	-3.49	-3.48	-9.00	-10.29	-17.15	-22	-10	-5.74	-3.59	3.59	2.15
MFLN	131.06	140.36	37.00	435.61	1.44	.95	.95	107.70	113.44	.00	.00
STDEV	.675	1.768	5.364	3.153	.045	.025	.025	1.0215	.927	.732	.600

SUMMARY OF STATISTICAL DATA FOR FC 32 - 2
 TIME IN 60 MINUTE INTERVALS FROM START OF TAPE 18
 THE MEAN VALUES ON CHANNELS 3 THRU 44 HAVE NO DIRECT MEANING
 THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
 (PSI) = MICRO - STRAINS

CH# NAME	1 (PSI)	2 (PSI)	3 (PSI)	4 (PSI)	5 (PSI)	6 (PSI)	7 (PSI)	8 (PSI)	9 (PSI)	10 (PSI)	11 (PSI)
MAX.	23.49	189.43	133.77	4.50	54.68	2.70	130.34	40.50	54.88	6.30	18.00
MIN.	16.61	-0.00	-13.72	-2.70	-3.43	-4.50	-17.15	-4.50	-3.43	-1.60	-2.70
MEAN	25.20	119.64	105.51	47.70	178.36	57.60	195.51	55.80	48.60	50.40	50.40
STDEV	3.317	62.866	12.934	1.195	5.612	.682	4.303	1.0225	5.759	.599	.888
CH# NAME	12 (PSI)	13 (PSI)	14 (PSI)	15 (PSI)	16 (PSI)	17 (PSI)	18 (PSI)	19 (PSI)	20 (PSI)	21 (PSI)	22 (PSI)
MAX.	53.10	44.10	36.00	28.70	0.00	65.18	51.45	10.80	121.03	242.06	242.06
MIN.	-3.60	-3.60	-11.70	-3.60	0.00	-3.43	-2.70	-9.90	-37.24	-55.86	-55.86
MEAN	66.60	60.30	35.10	54.00	0.00	105.51	54.00	37.80	586.53	1014.79	1014.79
STDEV	1.670	8.065	0.000	1.465	5.982	1.0450	3.692	3.369	22.156	39.304	39.304
CH# NAME	23 (PSI)	24 (PSI)	25 (PSI)	26 (PSI)	27 (PSI)	28 (PSI)	29 (PSI)	30 (PSI)	31 (PSI)	32 (PSI)	33 (PSI)
MAX.	40.56	339.65	139.65	121.62	83.79	33.10	102.41	111.72	133.79	65.17	53.80
MIN.	-130.34	-46.55	-47.92	-37.24	-0.31	-15.62	-37.24	-27.93	-27.93	-6.96	-6.96
MEAN	567.61	595.84	512.05	301.02	437.57	484.12	605.15	595.64	566.53	586.53	147.32
STDEV	24.215	26.572	21.254	21.800	10.114	10.082	17.625	16.736	13.192	11.099	1.554
CH# NAME	34 (PSI)	35 (PSI)	36 (PSI)	37 (PSI)	38 (PSI)	39 (PSI)	40 (PSI)	41 (PSI)	42 (PSI)	43 (PSI)	44 (PSI)
MAX.	6.96	6.96	42.00	10.29	13.72	0.11	0.11	6.46	6.46	5.74	6.60
MIN.	-3.44	-3.48	-12.00	-13.72	-24.01	-0.23	-0.15	-8.62	-6.46	-5.74	-6.00
MEAN	128.76	142.66	381.00	435.61	1.44	.57	1.44	108.42	112.73	111.29	0.00
STDEV	1.0415	1.0770	3.601	4.6689	.048	.032	1.0606	1.0575	1.0382	.0660	.0660

SUMMARY OF STATISTICAL DATA FOR FG 22 - 5
 TIME IN MINUTE INTERVALS FROM START OF TAPE 21
 THAT MEAN VALUES ON CHANNELS 3 THRU 64 HAVE NO DIRECT MEANING
 THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
 (PSI) = MICROR - STRAIN

CH. NAME	1 t1	2 w2	3 14L1	4 1HT1	5 2HT1	6 3HT1	7 3H11	8 3H12	9 3HT2	10 3H21	11 MS1
(MPH)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)
MAX.	40.19	169.40	246.96	5.40	250.39	5.00	130.34	13.50	120.05	11.76	41.40
MIN.	18.18	.00	-24.20	-1.80	-24.01	-6.30	-13.72	-9.90	-17.15	-1.80	-4.50
MEAN	30.62	129.61	229.81	47.70	-108.94	56.70	152.06	63.00	212.66	49.50	51.30
STDEV	3.729	53.634	46.401	1.136	36.205	1.0382	22.246	2.147	23.758	7.326	
CH. NAME	12 3HP12	13 3HP13	14 3HP14	15 3HP15	16 3HP16	17 4H11	18 4H11	19 4H12	20 4H12	21 4V1	22 4V2
(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)
MAX.	42.30	36.90	64.80	87.00	.00	188.65	9.00	154.35	16.20	307.23	595.84
MIN.	-13.50	-10.80	-13.50	-20.70	.00	-20.58	-9.50	-17.15	-14.80	-102.41	-199.51
MEAN	46.10	71.10	76.50	66.40	.00	222.55	58.50	209.23	45.90	1C42.72	
STDEV	7.046	4.574	15.118	18.120	.000	34.038	1.0701	27.468	4.0173	66.182	126.240
CH. NAME	23 2V1	24 2V2	25 3V1	26 3V2	27 3V3	28 3V4	29 4V1	30 4V2	31 4V3	32 4V4	33 C1
(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)
MAX.	73.79	207.92	307.23	278.61	167.58	158.27	307.23	216.61	223.44	195.51	13.92
MIN.	-316.54	-102.41	-65.17	-27.93	-27.93	-27.93	-13.75	-74.48	-55.86	-55.86	-5.80
MEAN	559.60	614.46	530.67	400.33	493.43	605.15	605.15	586.53	586.53	143.64	
STDEV	66.610	66.558	56.061	27.077	26.536	59.966	57.645	33.779	30.013	10.760	
CH. NAME	34 t2	35 C3	36 L1	37 S1	38 S2	39 P1	40 P2	41 P3	42 L2	43 A3	44 A4
(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)	(PSI)
MAX.	4.64	10.44	57.00	10.70	44.59	.18	.21	14.33	17.23	24.41	
MIN.	-6.62	-6.66	-42.00	-27.44	-44.02	-3.36	-6.43	-19.39	-15.67	-25.85	.00
MEAN	12.692	141.52	351.00	435.61	1.45	.58	.58	110.57	112.01	104.85	.00
STDEV	1.411	9.727	6.038	.064	.076	.076	.076	5.742	4.066	6.229	.000

SUMMARY OF STATISTICAL DATA FOR
TIME IN 6 MINUTE INTERVALS FROM START OF TAPF - 6
THE MEAN VALUES ON CHANNELS 3 THRU 44 HAVE NO DIRECT MEANING
THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
(PS) = MICRO-STRAINS

CH ⁺ KIE	1	2	3	4	5	6	7	8	9	10	11	12
(M ₀ H)	11	42	141.1	1HT1	2H11	3HL1	3H11	3HL2	3H12	3HRL1	(P ₅)	(M ₀)
MAX.	33.19	D _{FC} *	(P ₅)	27.00	27.00							
MIN.	14.67	210.34	137.20	3.60	123.48	5.40	85.75	13.50	61.74	7.20	-1.80	-1.80
MEAN	22.05	.00	-13.72	-1.60	-3.43	-4.50	-6.86	-6.00	-6.36	-6.50	-1.00	-1.00
SDEV	2.695	149.55	168.07	47.70	178.36	56.70	188.65	63.00	202.37	44.60	56.40	56.40
		46.578	18.454	.652	11.502	.649	5.353	.641	7.703	.761	1.975	
CH ⁺ NAME	12	13	14	15	16	17	18	19	20	21	22	23
(M ₀ H)	3HPL2	3HPL3	3HET1	3HET2	3HPT3	4H11	4HT1	4H12	4HT2	4V1	4V2	(M ₀)
MAX.	24.30	23.40	35.10	17.10	.00	10.76	20.70	106.33	12.60	223.44	400.33	
MIN.	-2.70	-5.40	-7.20	-1.80	.00	-6.86	-10.60	-3.43	-9.00	-63.79	-153.27	
MEAN	76.50	70.20	40.50	55.50	.00	20.923	59.40	108.04	36.60	586.53	1024.1C	
SDEV	1.544	1.221	6.926	1.079	.000	10.027	.976	F-145	6.67			

NAME	3HPL2	3HPL3	3HPT1	3HPT2	3HPT3	4HL1	4HT1	4HL2	4HT2	16	17	18	19	20	21	22	
(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
MAX.	24.30	23.40	35.10	17.10	0.00	10.76	20.70	106.33	12.60	223.44	400.33	-3.43	-10.00	-3.90	-63.79	-153.27	
MTH.	-2.70	-5.40	-7.20	-1.80	.00	-6.86	-20.70	-10.00	-12.60	223.44	400.33	-3.43	-10.00	-3.90	-63.79	-153.27	
MEAN	76.50	70.20	40.50	55.50	0.00	20.923	59.40	108.04	35.60	586.53	1024.10	63.222	1.000	10.027	0.976	8.645	
SDEV	1.544	1.221	6.926	10.000	10.027	0.976	8.645	33.127	63.222	1.000	10.027	0.976	8.645	1.000	10.027	0.976	
CH ^o	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	
NAME	2VL	2V2	3V1	3V2	3V3	3V4	4V1	4V2	4V3	4V4	C1	C2	C3	C4	C5	C6	
(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	
M23	65.17	155.51	196.20	186.20	102.41	162.41	186.20	186.20	121.03	102.41	6.66	1.00	1.00	1.00	1.00	1.00	
M71	-155.51	-13.79	-55.86	-55.86	-18.62	-27.93	-65.17	-55.86	-46.55	-37.24	-3.48	-1.00	-1.00	-1.00	-1.00	-1.00	
MEAN	567.01	625.15	521.36	351.02	446.88	453.43	595.64	595.84	566.53	586.53	141.52	1.00	1.00	1.00	1.00	1.00	
SDEV	33.715	34.423	34.632	16.468	16.098	31.337	21.664	16.166	16.166	16.166	1.00	1.00	1.00	1.00	1.00	1.00	

CH. NAME	34 P2	35 C3	36 L1	37 S1	38 P2	39 P1	40 P2	41 P1	42 A2	43 A3	44 A4
(PS)	(MS)	(MC)	(PS)	(PS)	(PS)	(PSI)	(PSI)	(PSI)	TENS	TENS	TENS
3.49	5.10	45.00	10.25	34.30	.12	.14	.62	8.62	6.62	.00	.00
-4.64	-4.64	-4.00	-17.15	-30.67	-1.18	-2.22	-12.21	-10.05	-12.21	.00	.00
131.09	141.52	331.00	435.61	435.61	1.46	.99	107.70	113.44	110.57	.00	.00
.087	1.612	5.400	4.505	7.179	.046	.2.503	2.296	2.732	.000		

SUMMARY OF STATISTICAL DATA FOR
TYPE IN 6-FR MINUTE INTERVALS FROM START OF TAPE - 2
THE MEAN VALUES IN CHANNELS 3 THRU 44 HAVE NO EFFECT MEANING
THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
(MS) = MICPAC - STRAINS

CH# NAME	1 (MS)	2 (MS)	3 (MS)	4 (MS)	5 (MS)	6 (MS)	7 (MS)	8 (MS)	9 (MS)	10 (MS)	11 (MS)
MAX	41.47	209.37	130.34	176.91	46.50	26.32	0.00	78.69	7.20	27.40	-1.80
MIN	16.27	76.76	-36.87	-16.86	-4.70	-6.86	-3.66	-6.86	-9.90	-1.80	47.70
MEN	26.48	176.46	202.37	45.00	181.79	51.30	198.44	46.90	46.90	10.77	1.977
STDEV	4.678	12.572	17.854	.633	10.142	.730	.767	7.970	.728		
CH# NAME	12 (MS)	13 (MS)	14 (MS)	15 (MS)	16 (MS)	17 (MS)	18 (MS)	19 (MS)	20 (MS)	21 (MS)	22 (MS)
MAX	23.40	21.60	27.00	16.20	.00	11.70	92.61	53.10	214.13	400.33	
MIN	-7.20	-2.70	-4.50	-2.70	.00	-2.70	-3.43	-9.40	-74.43	-134.65	
MEN	65.70	56.50	67.50	51.30	.00	49.50	198.94	.90	561.53	1024.10	
STDEV	1.529	1.227	1.625	1.412	.000	10.606	.860	7.460	31.570	59.530	
CH# NAME	23 (MS)	24 (MS)	25 (MS)	26 (MS)	27 (MS)	28 (MS)	29 (MS)	30 (MS)	31 (MS)	32 (MS)	33 (MS)
MAX	65.17	142.51	133.65	130.65	93.10	102.41	176.89	167.56	102.41	53.75	5.90
MIN	-186.20	-165.17	-46.55	-27.24	-16.62	-16.62	-55.66	-46.55	-37.24	-3.46	
MEN	567.91	595.84	521.36	341.62	466.68	484.13	595.84	566.53	566.53	142.68	
STDEV	32.317	34.390	27.761	26.446	14.195	14.120	24.669	24.614	15.459	12.363	1.463
CH# NAME	34 (MS)	35 (MS)	36 (MS)	37 (MS)	38 (MS)	39 (MS)	40 (MS)	41 (MS)	42 (MS)	43 (MS)	44 (MS)
MAX	2.48	5.60	51.00	-18.00	-13.72	-27.44	.14	-10.05	-7.18	-12.92	-33.75
MIN	-2.32	-3.48	-18.00	-13.72	-27.44	-1.18	-1.14	-10.05	-7.18	117.75	46.67
MEN	126.76	140.36	394.00	435.61	435.61	1.42	.64	114.68	119.91	2.195	6.448
STDEV	.967	1.627	3.842	.046	.035	2.453	1.932				

SUMMARY OF STATISTICAL DATA FOR FG 33 - 3
 TIME IN 60 MINUTE INTERVALS FROM START OF TAPE 3
 THE MEAN VALUES ON CHANNELS 3 THRU 44 HAVE DIRECT MEANING
 THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
 (MS) = MICRO - STRAINS

CH#	1	2	3	4	5	6	7	8	9	10	11
NAME	V1	V2	VHL1	INTL	2HLL1	3HLL1	3HL2	3HT2	3HKL1	3HKL1	
(MS)	0.00	0.00	(MS)	(MS)	(MS)						
MAX.	44.02	19.40	212.66	5.40	171.50	7.20	154.35	12.60	126.91	9.90	48.60
MIN.	21.05	0.00	-48.02	-0.00	-13.72	-5.40	-6.66	-5.40	-10.24	-0.90	-2.70
MEAN	31.26	159.52	243.53	45.00	188.65	45.50	164.07	52.20	202.37	45.90	46.80
STDEV	3.75	19.77	34.15	1.07	1.07	1.06	1.06	1.06	1.05	1.03	5.519
CH#	12	13	14	15	16	17	18	19	20	21	22
NAME	3HPL2	3HPL3	3HPT1	3HPT2	3HPT3	4HLL1	4HLL2	4HLL2	4HT2	4V1	4V2
(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
MAX.	43.20	41.40	53.10	27.00	0.00	222.45	10.80	16.07	39.60	297.92	567.91
MIN.	-6.10	-5.40	-11.70	-7.20	-13.72	-3.60	-10.24	-0.00	-53.10	-176.89	-1024.10
MEAN	66.60	59.40	38.60	49.50	212.66	49.50	212.66	20.60	566.53	499.96	499.96
STDEV	3.031	3.037	8.067	0.000	25.220	1.031	20.167	2.032	5.30370	1.0326	5.519
CH#	23	24	25	26	27	28	29	30	31	32	33
NAME	2V1	2V2	3V1	3V2	3V3	3V4	4V1	4V2	4V3	4V4	C1
(PS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)	(MS)
MAX.	74.49	274.30	260.04	277.30	16.87	156.47	223.75	223.44	195.51	176.69	8.12
MIN.	-275.30	-193.79	-55.86	-55.86	-27.63	-18.62	-65.17	-65.17	-55.86	-46.55	-5.60
MEAN	567.91	565.84	521.36	381.02	446.68	484.12	595.84	586.53	586.53	141.52	141.52
STDEV	51.078	53.390	44.074	45.375	23.497	23.003	42.578	41.621	25.409	22.359	1.559
CH#	34	35	36	37	38	39	40	41	42	43	44
NAME	V2	V3	L1	R1	R2	P1	P2	A1	A2	A3	A4
(PS)	(MS)	(MS)	(MS)	(MS)	(PS)	(PS)	(PS)	TENS	TENS	TENS	TENS
MAX.	4.64	6.96	6.00	10.76	41.16	25	21	15.06	11.49	15.08	38.05
MIN.	-5.30	-5.80	-3.00	-17.15	-41.16	-26	-30	-15.05	-15.60	-16.51	-42.36
MEAN	125.29	130.04	381.60	435.61	1.42	.94	116.47	115.19	117.75	54.57	10.135
STDEV	1.0243	1.0556	0.530	5.164	.069	3.777	3.303	3.936	3.936	10.135	

SUMMARY OF STATISTICAL DATA FOR FC 33 - 4
 TIME IN 60 MINUTE INTERVALS FROM START OF TAPE
 THE MEAN VALUES ON CHANNELS 3 THAT ARE HAVE NO DIRECT MEANING
 THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
 (MS) = MICRO - STRAINS

CH. NAME	1 (MS)	2 (MS)	3 (MS)	4 (MS)	5 (MS)	6 (MS)	7 (MS)	8 (MS)	9 (MS)	10 (MS)	11 (MS)
MAX.	29.28	219.34	171.5C	130.34	3.60	3.60	26.10	58.31	5.40	27.00	242L1 (MS)
MIN.	15.14	149.55	-17.15	-1.60	-6.66	-5.40	-2.70	-6.86	-5.90	-1.60	27.00 (MS)
MEAN	27.12	176.46	214.52	181.79	157.78	51.30	168.94	45.90	44.10	44.10 (MS)	2115 (MS)
STDEV	3.455	9.158	22.022	.821	13.648	.728	10.068	.922	2.115		
CH. NAME	12 (MS)	13 (MS)	14 (MS)	15 (MS)	16 (MS)	17 (MS)	18 (MS)	19 (MS)	20 (MS)	21 (MS)	22 (MS)
MAX.	23.40	27.40	40.50	17.10	•CC	14.40	75.46	10.80	242.06	456.19	
MIN.	-2.70	-9.00	-7.20	•00	-6.86	-2.70	-7.20	-63.79	-158.27		
MEAN	64.80	55.50	37.8C	4F.60	205.23	49.50	202.37	7.20	586.53	1024.10	
STDEV	10.41	1.208	7.346	10.362	11.598	.978	9.430	2.916	39.019	71.964	
CH. NAME	23 (MS)	24 (MS)	25 (MS)	26 (MS)	27 (MS)	28 (MS)	29 (MS)	30 (MS)	31 (MS)	32 (MS)	33 (MS)
MAX.	2V1	2V2	3V1	3V2	3V3	3V4	4V1	4V2	4V3	4V4	C1 (MS)
MIN.	1M51	1MS1									
MEAN	65.17	223.44	176.89	176.89	111.72	111.72	176.89	176.89	53.10	12.76	
STDEV	-105.51	-65.17	-55.96	-55.96	-27.93	-27.93	-46.55	-46.55	-8.12	-8.12 (MS)	
MEAN	567.91	565.94	521.36	397.52	446.66	484.12	595.84	586.53	586.53	145.00	
STDEV	36.224	42.314	35.710	36.578	18.068	17.716	31.945	31.661	16.620	16.230	5.405 (MS)
CH. NAME	34 (MS)	35 (MS)	36 (MS)	37 (MS)	38 (MS)	39 (MS)	40 (MS)	41 (MS)	42 (MS)	43 (MS)	44 (MS)
MAX.	2.32	5.90	10.20	30.67	•12	•11	12.21	7.12	14.36	109.14	TDS (MS)
MIN.	-3.49	-3.46	-24.00	-17.15	-34.30	-1.19	-6.33	-10.05	-12.21	-63.18	
MEAN	126.44	136.88	435.61	1.44	.95	115.47	121.34	116.47	63.60		
STDEV	•596	1.613	4.035	7.748	.647	2.786	2.245	3.406	2.5704		

SUMMARY OF STATISTICAL DATA FOR FC 33 - 5
 TIME IN MINUTE INTERVALS FROM START OF TAP 6
 THE MEAN VALUES ON CHANNEL 3 THAT HAVE NO DIRECT MEANING
 THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
 (MS) = MICRO-STRAINS

CH. NAME	1	2	3	4	5	6	7	8	9	10	11
	11	12	13	14	15	16	17	18	19	20	21
(MPPH)	11.1	11.2	14.1	19.1	24.1	27.1	31.1	34.1	37.1	41.1	43.1
MAD.	35.09	20.37	106.33	2.70	2.70	3.60	24.01	2.70	50.31	4.50	10.80
MTR.	16.91	119.64	-5.86	-0.90	-3.43	-4.50	-3.43	-3.60	-6.96	-9.90	-9.90
MEN.	24.89	170.46	205.86	45.00	178.36	46.66	157.78	50.46	158.94	45.90	45.90
STREV	3.31	6.741	12.596	4.53	6.150	6.69	2.462	5.516	5.716	6.540	6.540
CH. NAME	12	13	14	15	16	17	18	19	20	21	22
(MPPH)	3HPL2	3HPL3	3HPL1	3HPL2	3HPL3	4HPL1	4HPL2	4HPL2	4HT2	IV1	IV2
MAD.	6.00	4.50	5.10	14.40	.00	7.689	4.50	44.59	5.46	148.96	260.68
MTR.	-6.30	-2.70	-20.60	-1.50	.00	-3.43	-4.50	-3.43	.00	-27.93	-74.46
MEN.	65.70	56.70	63.90	48.60	.00	205.63	49.50	198.64	.00	577.22	1014.79
STREV	.829	.686	1.037	1.006	.000	5.190	.607	4.533	.119	24.791	46.490
CH. NAME	13	14	15	16	17	18	19	20	21	22	23
(MS)	2V1	2V2	3V1	3V2	3V3	3V4	4V1	4V2	4V3	4V4	C1
MAD.	46.55	167.56	171.03	121.03	65.17	74.48	03.10	102.41	74.48	65.17	4.64
MTR.	-15.27	-37.24	-37.24	-15.62	-18.62	-27.93	-27.93	-27.93	-27.93	-3.46	147.32
MEN.	577.22	566.53	521.36	301.02	446.58	484.12	595.64	586.53	566.53	586.53	1.471
STREV	24.456	26.569	24.225	11.576	11.343	20.769	20.455	14.539	11.562	11.562	
CH. NAME	14	15	16	17	18	19	20	21	22	23	24
(MS)	3L	35	36	37	38	39	40	41	42	43	44
MAD.	3.32	3.48	45.40	10.26	10.29	.14	.11	7.90	7.90	6.46	7045
MTR.	-2.32	-5.80	-30.00	-12.72	-27.44	-0.25	-0.18	-7.18	-5.74	-8.62	21.54
MEN.	127.60	141.52	364.00	435.61	1.45	.67	116.67	122.74	119.91	-23.69	53.65
STREV	.620	1.721	6.824	3.700	5.031	.045	.037	1.664	1.603	1.6767	4.910

SUMMARY OF STATISTICAL DATA FOR FIG. 33 - 6
 TIME IN 60 MINUTE INTERVALS FROM START OF TAPE 7
 THE MEAN VALUES ON CHANNELS 3 THRU 44 HAVE NO DIRECT MEANING.
 THESE MEAN VALUES HAVE BEEN SUBTRACTED FROM THE MIN. AND MAX. VALUES FOR THESE CHANNELS
 (MS) = MICRO - STRAINS

CH#	1	2	3	4	5	6	7	8	9	10	11
NAME	b1	y2	1HL1	1HT1	2HL1	2HT1	3HL1	3HT1	3HL2	3HT2	3HR1
(MS)	37.32	209.37	102.40	2.70	.16.63	2.70	54.88	6.30	65.17	5.40	(MS)
MAX.	14.59	.00	-10.70	-2.60	-3.45	-6.30	-4.50	-6.86	-7.00	-8.00	19.60
MIN.	21.69	169.49	202.37	45.00	17K.36	49.50	161.21	51.30	198.94	45.90	-1.60
MEAN	a.109	21.93	14.657	.555	9.306	.590	3.262	.580	6.528	.767	45.90
CH#	12	13	14	15	16	17	18	19	20	21	22
NAME	3H512	3H513	3H511	3H512	3H513	4HL1	4HT1	4HL2	4HT2	JV1	JV2
(MS)	14.40	11.70	14.40	6.00	.00	85.75	11.70	61.74	.00	260.68	465.50
MAX.	-8.10	-5.40	-1.50	-0.90	.00	-3.43	-4.50	-3.43	.00	-74.48	-130.34
MIN.	65.70	57.60	63.00	48.60	.00	205.60	49.50	198.94	.00	566.53	1C14.79
STDEV	1.600	.711	1.016	.000	.000	.738	6.683	.000	31.188	59.360	
CH#	23	24	25	26	27	28	29	30	31	32	33
NAME	2V1	2V2	3V1	3V2	3V3	3V4	4V1	4V2	4V3	4V4	C1
(MS)	14.51	14.51	14.51	14.51	14.51	14.51	14.51	14.51	14.51	14.51	(MS)
MAX.	65.17	214.13	190.65	148.06	93.10	102.41	149.66	148.96	63.79	83.79	4.64
MIN.	-223.44	-65.17	-46.55	-46.55	-27.93	-19.62	-46.55	-46.55	-37.24	-37.24	-4.64
MEAN	577.22	521.36	3C1.02	446.88	484.12	505.64	566.53	586.53	566.53	146.16	
STDEV	30.571	33.146	20.415	14.977	15.034	26.058	26.034	17.685	14.736	10.400	
CH#	24	25	26	27	28	29	30	31	32	33	34
NAME	C2	C3	1.1	r1	r2	P1	P2	A1	A2	A3	A4
(MS)	5.32	5.50	4.00	10.20	17.15	.11	.14	10.05	7.18	10.05	125.65
MAX.	-2.32	-3.46	-15.00	-13.72	-30.67	-.15	-.17	-.90	-6.46	-1C.77	-53.85
MIN.	127.60	139.21	341.06	435.61	1.46	.57	11K.47	122.78	115.91	53.65	
STDEV	.674	1.608	4.004	6.224	.043	2.124	1.697	2.729	2.729	12.218	