

STA 195, HADDAM, KS  
MAINTENANCE INFORMATION  
RECORDS

(1972  
~~1972~~  
2000)

SEL 810A  
COMPUTER  
SYSTEM



DATE February 8, 1971

SUBJECT Computer Maintenance Reports and Daily Log

|    |                |                 |      |                                  |
|----|----------------|-----------------|------|----------------------------------|
|    | R. D. Kelly    | J. J. Sneddeker |      |                                  |
|    | J. R. Saar     | R. D. Pilcher   |      |                                  |
| TO | V. E. Dake     | R. E. Praeuner  | FROM | <sup>VKP</sup> Mr. V. K. Patrick |
|    | Ed Skanes      | G. R. Frimann   |      |                                  |
|    | M. B. Roker    | T. C. Losh      |      |                                  |
|    | C. J. Langdale | L. G. Gillis    |      |                                  |
|    | E. L. Bergeson | A. R. Richards  |      |                                  |

The computer and associated equipment maintenance report Forms mailed to you on October 15th, 1969, along with a Memo from Mr. M. Findling describing the operation and use of these Forms must be completed for each and every computer trouble and/or maintenance performed by you on any of the computer or associated equipments with the exception of cleaning the filters once a month. These reports will assist us in locating weak areas in the circuitry or system in order that we may maintain additional spare parts and spare modules for repair of these re-occurring problems. This information will also assist us in isolating and correcting problems of a similar type in the future. The reports, therefore, were primarily designed to assist the Technician in having the proper materials available for repairing the computers and in helping to isolate and correct re-occurring problems in the computer system. In addition it will allow analysis of the re-occurring problems by Station No. 106 personnel in order that they might be eliminated through circuit modifications or component selection. All of the fore-going items will reduce your work load at the cost of only a few minutes to complete the Computer maintenance report Form and sending them in.

Effective February 1st, a monthly report on all computer and control maintenance and troubles at the Intermediate Stations must be submitted by the Field Headquarters, Station No. 106, to the Chicago office. This report will either contain copies of your maintenance report Forms or a condensed version of the information contained on the Form. The monthly report for February 1971 is to contain all of the Computer maintenance and troubles worked on by Communications Division personnel since the arrival of the Computers in the field. The majority of you District Communications Technicians that have been involved in Computer maintenance to date, have done a very good job of submitting the Computer maintenance report Forms on problems they have been involved with on the Computer system; however, a few have not submitted their Forms for all Computer problems or maintenance which they have worked on since the arrival of the First Computer in the field excluding of course, the Refresher Course held here at Beatrice. The delinquent Reports must be completed from the Technicians memory or any other source of informati

available and sent to the Attention of Mr. M. Findling at Station No. 106 by February 17th, 1971. The Forms are to be completed as described in Mr. M. Findling's Memo, dated October 15th, 1969, subject: Computer and Associated Equipment Maintenance Report Forms. For those addressees which did not receive a copy of Mr. M. Findling's Memo, a copy is attached.

In order to save you the work of filling out a Computer maintenance report Form for small maintenance items such as reloading the program or re-insertion of the loader and program or cleaning of the filters and other minor items such as these, a Daily Report Log is being established in Beatrice that will be maintained in the Communications building. On completion of any of these minor maintenance items, you will call in to the Communications building at Station #106 and have one of the Technicians enter in the Log the date, the Station, your name, a very brief description of the maintenance item performed, and the approximate amount of time required for the maintenance. This will give us an over-all view of how the system is performing and the problems which we will be encountering when the total Computer system maintenance is turned over to us. As a temporary arrangement, at least until we do accept full maintenance for the Computer system, we would also like you to report in on the Daily Log when and if you find out that the Station Operator at the Station under your responsibility has reloaded the program or encountered other problems with the Computer system in which you were not directly involved. A summary of minor maintenance items such as program reloading and etc., as you remember it, covering the period from January 1st, 1971, to date you receive this Memo, should be sent to the attention Mr. M. Findling at Station No. 106 by February 19th, 1971.

NOTE: Remember that it is not necessary to complete a Computer maintenance report Form for minor maintenance items such as program or loader reloading and filter cleaning.

If you have any questions regarding this Memo, the Computer Maintenance Report Forms, and/or the Computer system Daily Maintenance Log, please contact Mr. M. Findling.

VKP/plm

cc: Mr. C. E. Upson  
Mr. D. J. Noerrlinger  
Mr. R. L. Jepsen  
Mr. M. J. Findling

SEL 810A

COMPUTER MAINTENANCE FORM

TECHNICIAN Tracy John STATION 195 DATE 2-12-90

MONTHLY

- CLEAN 10 FILTERS
- CHECK 10 MUFFIN FANS, 2 BLOWERS
- REPLACE DEFECTIVE DISPLAY PANEL LAMPS
- INSPECT OPERATION OF FOXBORO/WESTINGHOUSE SYSTEMS
- CHECK WITH OPERATOR FOR UNUSUAL OPERATIONS

QUARTERLY - FEBRUARY, MAY, AUGUST, NOVEMBER

- OIL 2 BLOWER MOTOR ASSEMBLIES (SQUIRREL CAGE)  
USE 20W NONDETERGENT OIL
- ADJUST A/D REFERENCE VOLTAGES (2.505V = '4000) (4.9865V = '7764)  
CHECK A/D RELAYS WITH CLT #1 DIAGNOSTIC

SEMI-ANNUAL - FEBRUARY, AUGUST

- CALIBRATE AND TEST FOXBORO/WESTINGHOUSE SYSTEMS
- CLEAN, LUBRICATE AND TEST OPERATION OF TELETYPEWRITER
- TEST POWER FAIL-AUTO RESTART SYSTEM WITH CLT #3 DIAGNOSTIC
- CHECK PARABAM CLOCK AND LOSS OF POWER BATTERY RESERVE

POWER SUPPLY VOLTAGES, INCLUDE AC RIPPLE WITH VOLTAGE SEPARATED WITH (/) EXAMPLE: 3.6/16

|                           | VOLTAGE |                     | AC RIPPLE IN MV |                     |         |                       |                             |
|---------------------------|---------|---------------------|-----------------|---------------------|---------|-----------------------|-----------------------------|
| <u>INTERFACE MOD.</u> 223 | 3.6V    | $\frac{3.57}{8.8}$  |                 |                     |         |                       |                             |
| MOD. 240                  | 3.6V    | $\frac{3.67}{4.6}$  | 12V             | $\frac{12.40}{6.8}$ | 12V     | $\frac{12.10}{3.6}$   | (-) 12V $\frac{11.90}{5.9}$ |
| MOD. 240 (-)              | 6.3V    | $\frac{6.21}{10.0}$ | 6.3V            | $\frac{6.21}{9.8}$  | 5V      | $\frac{4.98}{7.7}$    |                             |
| <u>COMPUTER MOD.</u> 221  | 3.6V    | $\frac{3.60}{14.2}$ | 5V              | $\frac{5.03}{21.5}$ |         |                       |                             |
| MOD. 223                  | 3.6V    | $\frac{3.58}{15.8}$ |                 |                     |         |                       |                             |
| MOD. 222 (-)              | 6V      | $\frac{-5.85}{4.9}$ | (-) 10V         | $\frac{-9.57}{6.5}$ | (-) 16V | $\frac{-14.71}{2.80}$ |                             |
|                           | 40V     | $\frac{31.70}{2.4}$ | 16V             | $\frac{17.38}{2.6}$ | 35V     | $\frac{33.1}{7.0}$    | 21V $\frac{18.85}{11.0}$    |

ANNUAL - AUGUST

- WITH CLT #2 DIAGNOSTIC, CHECK ALL CONTROL PANEL AND TEU FUNCTIONS.
- WITH CLT #3 DIAGNOSTIC, CHECK PRIORITY INTERRUPTS AND POWER FAIL.
- WITH CLT #4 DIAGNOSTIC, TEST ALL OUTPUT AND INPUT LOGIC INCLUDING RELAYS.
- CLEAN, LUBRICATE AND CHECK HIGH SPEED TAPE READER.
- CHECK COMPUTER VIA 3½ HOUR ACCEPTANCE TEST DIAGNOSTIC.

SEL 810A

COMPUTER MAINTENANCE FORM

TECHNICIAN Ray Cook STATION 195 DATE 3-16-90

MONTHLY

- CLEAN 10 FILTERS
- CHECK 10 MUFFIN FANS, 2 BLOWERS
- REPLACE DEFECTIVE DISPLAY PANEL LAMPS
- INSPECT OPERATION OF FOXBORO/WESTINGHOUSE SYSTEMS
- CHECK WITH OPERATOR FOR UNUSUAL OPERATIONS

*Install S.E.L.  
 Clock from #106  
 communication shop.*

QUARTERLY - FEBRUARY, MAY, AUGUST, NOVEMBER

- OIL 2 BLOWER MOTOR ASSEMBLIES (SQUIRREL CAGE)  
 USE 20W NONDETERGENT OIL
- ADJUST A/D REFERENCE VOLTAGES (2.505V = '4000) (4.9865V = '7764)  
 CHECK A/D RELAYS WITH CLT #1 DIAGNOSTIC

SEMI-ANNUAL - FEBRUARY, AUGUST

- CALIBRATE AND TEST FOXBORO/WESTINGHOUSE SYSTEMS
- CLEAN, LUBRICATE AND TEST OPERATION OF TELETYPEWRITER
- TEST POWER FAIL-AUTO RESTART SYSTEM WITH CLT #3 DIAGNOSTIC
- CHECK PARABAM CLOCK AND LOSS OF POWER BATTERY RESERVE

POWER SUPPLY VOLTAGES, INCLUDE AC RIPPLE WITH VOLTAGE SEPARATED WITH (/) EXAMPLE: 3.6/16



|                       |          |          |       |         |       |         |                     |
|-----------------------|----------|----------|-------|---------|-------|---------|---------------------|
| <u>INTERFACE MOD.</u> | MOD. 223 | 3.6V     | _____ |         |       |         |                     |
|                       | MOD. 240 | 3.6V     | _____ | 12V     | _____ | 12V     | _____ (-) 12V _____ |
|                       | MOD. 240 | (-) 6.3V | _____ | 6.3V    | _____ | 5V      | _____               |
| <u>COMPUTER</u>       | MOD. 221 | 3.6V     | _____ | 5V      | _____ |         |                     |
|                       | MOD. 223 | 3.6V     | _____ |         |       |         |                     |
|                       | MOD. 222 | (-) 6V   | _____ | (-) 10V | _____ | (-) 16V | _____               |
|                       |          | 40V      | _____ | 16V     | _____ | 35V     | _____ 21V _____     |

ANNUAL - AUGUST

- WITH CLT #2 DIAGNOSTIC, CHECK ALL CONTROL PANEL AND TEU FUNCTIONS.
- WITH CLT #3 DIAGNOSTIC, CHECK PRIORITY INTERRUPTS AND POWER FAIL.
- WITH CLT #4 DIAGNOSTIC, TEST ALL OUTPUT AND INPUT LOGIC INCLUDING RELAYS.
- CLEAN, LUBRICATE AND CHECK HIGH SPEED TAPE READER.
- CHECK COMPUTER VIA 3½ HOUR ACCEPTANCE TEST DIAGNOSTIC.

SEL 810A

COMPUTER MAINTENANCE FORM

TECHNICIAN *Kroy* STATION 195 DATE 7-12-96

MONTHLY

- CLEAN 10 FILTERS
- CHECK 10 MUFFIN FANS, 2 BLOWERS
- REPLACE DEFECTIVE DISPLAY PANEL LAMPS
- INSPECT OPERATION OF FOXBORO/WESTINGHOUSE SYSTEMS
- CHECK WITH OPERATOR FOR UNUSUAL OPERATIONS

QUARTERLY - FEBRUARY, MAY, AUGUST, NOVEMBER

- OIL 2 BLOWER MOTOR ASSEMBLIES (SQUIRREL CAGE)  
USE 20W NONDETERGENT OIL
- ADJUST A/D REFERENCE VOLTAGES (2.505V = '4000) (4.9865V = '7764)  
CHECK A/D RELAYS WITH CLT #1 DIAGNOSTIC

SEMI-ANNUAL - FEBRUARY, AUGUST

- CALIBRATE AND TEST FOXBORO/WESTINGHOUSE SYSTEMS
- CLEAN, LUBRICATE AND TEST OPERATION OF TELETYPEWRITER
- TEST POWER FAIL-AUTO RESTART SYSTEM WITH CLT #3 DIAGNOSTIC
- CHECK PARABAM CLOCK AND LOSS OF POWER BATTERY RESERVE

POWER SUPPLY VOLTAGES, INCLUDE AC RIPPLE WITH VOLTAGE SEPARATED  
 WITH (/) EXAMPLE: 3.6/16

VOLTAGE      AC RIPPLE IN MV

|                       |          |          |       |         |       |         |                     |
|-----------------------|----------|----------|-------|---------|-------|---------|---------------------|
| <u>INTERFACE MOD.</u> | MOD. 223 | 3.6V     | _____ |         |       |         |                     |
|                       | MOD. 240 | 3.6V     | _____ | 12V     | _____ | 12V     | _____ (-) 12V _____ |
|                       | MOD. 240 | (-) 6.3V | _____ | 6.3V    | _____ | 5V      | _____               |
| <u>COMPUTER</u>       | MOD. 221 | 3.6V     | _____ | 5V      | _____ |         |                     |
|                       | MOD. 223 | 3.6V     | _____ |         |       |         |                     |
|                       | MOD. 222 | (-) 6V   | _____ | (-) 10V | _____ | (-) 16V | _____               |
|                       |          | 40V      | _____ | 16V     | _____ | 35V     | _____ 21V _____     |

ANNUAL - AUGUST

- WITH CLT #2 DIAGNOSTIC, CHECK ALL CONTROL PANEL AND TEU FUNCTIONS.
- WITH CLT #3 DIAGNOSTIC, CHECK PRIORITY INTERRUPTS AND POWER FAIL.
- WITH CLT #4 DIAGNOSTIC, TEST ALL OUTPUT AND INPUT LOGIC INCLUDING RELAYS.
- CLEAN, LUBRICATE AND CHECK HIGH SPEED TAPE READER.
- CHECK COMPUTER VIA 3½ HOUR ACCEPTANCE TEST DIAGNOSTIC.

SEL 810A

COMPUTER MAINTENANCE FORM

TECHNICIAN King Loh STATION 195 DATE 11-8-90

MONTHLY

- CLEAN 10 FILTERS
- CHECK 10 MUFFIN FANS, 2 BLOWERS
- REPLACE DEFECTIVE DISPLAY PANEL LAMPS
- INSPECT OPERATION OF FOXBORO/WESTINGHOUSE SYSTEMS
- CHECK WITH OPERATOR FOR UNUSUAL OPERATIONS

QUARTERLY - FEBRUARY, MAY, AUGUST, NOVEMBER

- OIL 2 BLOWER MOTOR ASSEMBLIES (SQUIRREL CAGE)  
USE 20W NONDETERGENT OIL
- ADJUST A/D REFERENCE VOLTAGES (2.505V = '4000) (4.9865V = '7764)  
CHECK A/D RELAYS WITH CLT #1 DIAGNOSTIC

SEMI-ANNUAL - FEBRUARY, AUGUST

- CALIBRATE AND TEST FOXBORO/WESTINGHOUSE SYSTEMS
- CLEAN, LUBRICATE AND TEST OPERATION OF TELETYPEWRITER
- TEST POWER FAIL-AUTO RESTART SYSTEM WITH CLT #3 DIAGNOSTIC
- CHECK PARABAM CLOCK AND LOSS OF POWER BATTERY RESERVE

POWER SUPPLY VOLTAGES, INCLUDE AC RIPPLE WITH VOLTAGE SEPARATED  
 WITH (/) EXAMPLE: 3.6/16

VOLTAGE                      AC RIPPLE IN MV

|                           |          |       |         |       |         |                     |
|---------------------------|----------|-------|---------|-------|---------|---------------------|
| <u>INTERFACE</u> MOD. 223 | 3.6V     | _____ |         |       |         |                     |
| MOD. 240                  | 3.6V     | _____ | 12V     | _____ | 12V     | _____ (-) 12V _____ |
| MOD. 240                  | (-) 6.3V | _____ | 6.3V    | _____ | 5V      | _____               |
| <u>COMPUTER</u> MOD. 221  | 3.6V     | _____ | 5V      | _____ |         |                     |
| MOD. 223                  | 3.6V     | _____ |         |       |         |                     |
| MOD. 222                  | (-) 6V   | _____ | (-) 10V | _____ | (-) 16V | _____               |
|                           | 40V      | _____ | 16V     | _____ | 35V     | _____ 21V _____     |

ANNUAL - AUGUST

- WITH CLT #2 DIAGNOSTIC, CHECK ALL CONTROL PANEL AND TEU FUNCTIONS.
- WITH CLT #3 DIAGNOSTIC, CHECK PRIORITY INTERRUPTS AND POWER FAIL.
- WITH CLT #4 DIAGNOSTIC, TEST ALL OUTPUT AND INPUT LOGIC INCLUDING RELAYS.
- CLEAN, LUBRICATE AND CHECK HIGH SPEED TAPE READER.
- CHECK COMPUTER VIA 3½ HOUR ACCEPTANCE TEST DIAGNOSTIC.

SEL 810A

COMPUTER MAINTENANCE FORM

TECHNICIAN Tracy Losh STATION 195 DATE 12-3-90

MONTHLY

- CLEAN 10 FILTERS
- CHECK 10 MUFFIN FANS, 2 BLOWERS
- REPLACE DEFECTIVE DISPLAY PANEL LAMPS
- INSPECT OPERATION OF FOXBORO/WESTINGHOUSE SYSTEMS
- CHECK WITH OPERATOR FOR UNUSUAL OPERATIONS

QUARTERLY - FEBRUARY, MAY, AUGUST, NOVEMBER

- OIL 2 BLOWER MOTOR ASSEMBLIES (SQUIRREL CAGE)  
USE 20W NONDETERGENT OIL
- ADJUST A/D REFERENCE VOLTAGES (2.505V = '4000) (4.9865V = '7764)  
CHECK A/D RELAYS WITH CLT #1 DIAGNOSTIC

SEMI-ANNUAL - FEBRUARY, AUGUST

- CALIBRATE AND TEST FOXBORO/WESTINGHOUSE SYSTEMS
- CLEAN, LUBRICATE AND TEST OPERATION OF TELETYPEWRITER
- TEST POWER FAIL-AUTO RESTART SYSTEM WITH CLT #3 DIAGNOSTIC
- CHECK PARABAM CLOCK AND LOSS OF POWER BATTERY RESERVE

POWER SUPPLY VOLTAGES, INCLUDE AC RIPPLE WITH VOLTAGE SEPARATED  
 WITH (/) EXAMPLE: 3.6/16

VOLTAGE                      AC RIPPLE IN MV

|                           |          |       |         |       |         |       |               |
|---------------------------|----------|-------|---------|-------|---------|-------|---------------|
| <u>INTERFACE</u> MOD. 223 | 3.6V     | _____ |         |       |         |       |               |
| MOD. 240                  | 3.6V     | _____ | 12V     | _____ | 12V     | _____ | (-) 12V _____ |
| MOD. 240                  | (-) 6.3V | _____ | 6.3V    | _____ | 5V      | _____ |               |
| <u>COMPUTER</u> MOD. 221  | 3.6V     | _____ | 5V      | _____ |         |       |               |
| MOD. 223                  | 3.6V     | _____ |         |       |         |       |               |
| MOD. 222                  | (-) 6V   | _____ | (-) 10V | _____ | (-) 16V | _____ |               |
|                           | 40V      | _____ | 16V     | _____ | 35V     | _____ | 21V _____     |

ANNUAL - AUGUST

- WITH CLT #2 DIAGNOSTIC, CHECK ALL CONTROL PANEL AND TEU FUNCTIONS.
- WITH CLT #3 DIAGNOSTIC, CHECK PRIORITY INTERRUPTS AND POWER FAIL.
- WITH CLT #4 DIAGNOSTIC, TEST ALL OUTPUT AND INPUT LOGIC INCLUDING RELAYS.
- CLEAN, LUBRICATE AND CHECK HIGH SPEED TAPE READER.
- CHECK COMPUTER VIA 3½ HOUR ACCEPTANCE TEST DIAGNOSTIC.

SEL 810A

COMPUTER MAINTENANCE FORM

TECHNICIAN Fray Slh STATION 195 DATE 9/5/90

MONTHLY

- CLEAN 10 FILTERS
- CHECK 10 MUFFIN FANS, 2 BLOWERS
- REPLACE DEFECTIVE DISPLAY PANEL LAMPS
- INSPECT OPERATION OF FOXBORO/WESTINGHOUSE SYSTEMS
- CHECK WITH OPERATOR FOR UNUSUAL OPERATIONS

QUARTERLY - FEBRUARY, MAY, AUGUST, NOVEMBER

- OIL 2 BLOWER MOTOR ASSEMBLIES (SQUIRREL CAGE)  
USE 20W NONDETERGENT OIL
- ADJUST A/D REFERENCE VOLTAGES (2.505V = '4000) (4.9865V = '7764)  
CHECK A/D RELAYS WITH CLT #1 DIAGNOSTIC

SEMI-ANNUAL - FEBRUARY, AUGUST

- CALIBRATE AND TEST FOXBORO/WESTINGHOUSE SYSTEMS
- CLEAN, LUBRICATE AND TEST OPERATION OF TELETYPEWRITER
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- CHECK PARABAM CLOCK AND LOSS OF POWER BATTERY RESERVE

POWER SUPPLY VOLTAGES, INCLUDE AC RIPPLE WITH VOLTAGE SEPARATED WITH (/) EXAMPLE: 3.6/16

|                           | VOLTAGE |                     | AC RIPPLE IN MV |                     |         |                      |
|---------------------------|---------|---------------------|-----------------|---------------------|---------|----------------------|
| <u>INTERFACE MOD.</u> 223 | 3.6V    | $\frac{3.58}{9.8}$  |                 |                     |         |                      |
| MOD. 240                  | 3.6V    | $\frac{3.67}{4.6}$  | 12V             | $\frac{12.40}{6.8}$ | 12V     | $\frac{12.10}{3.6}$  |
| MOD. 240 (-)              | 6.3V    | $\frac{6.20}{10.0}$ | 6.3V            | $\frac{6.21}{9.8}$  | 5V      | $\frac{4.98}{2.7}$   |
| <u>COMPUTER MOD.</u> 221  | 3.6V    | $\frac{3.66}{14.2}$ | 5V              | $\frac{5.0}{21.5}$  |         |                      |
| MOD. 223                  | 3.6V    | $\frac{3.59}{15.8}$ |                 |                     |         |                      |
| MOD. 222 (-)              | 6V      | $\frac{-5.85}{49}$  | (-) 10V         | $\frac{-9.57}{65}$  | (-) 16V | $\frac{-14.71}{280}$ |
|                           | 40V     | $\frac{31.70}{2.8}$ | 16V             | $\frac{17.38}{26}$  | 35V     | $\frac{33.1}{70}$    |
|                           |         |                     |                 |                     | 21V     | $\frac{18.85}{11.8}$ |

ANNUAL - AUGUST

- WITH CLT #2 DIAGNOSTIC, CHECK ALL CONTROL PANEL AND TEU FUNCTIONS.
- WITH CLT #3 DIAGNOSTIC, CHECK PRIORITY INTERRUPTS AND POWER FAIL.
- WITH CLT #4 DIAGNOSTIC, TEST ALL OUTPUT AND INPUT LOGIC INCLUDING RELAYS.
- CLEAN, LUBRICATE AND CHECK HIGH SPEED TAPE READER.
- CHECK COMPUTER VIA 3½ HOUR ACCEPTANCE TEST DIAGNOSTIC.

SEL 810A

COMPUTER MAINTENANCE FORM

TECHNICIAN Jimmy Loh STATION 195 DATE 1-28-91

MONTHLY

- CLEAN 10 FILTERS
- CHECK 10 MUFFIN FANS, 2 BLOWERS
- REPLACE DEFECTIVE DISPLAY PANEL LAMPS
- INSPECT OPERATION OF FOXBORO/WESTINGHOUSE SYSTEMS
- CHECK WITH OPERATOR FOR UNUSUAL OPERATIONS

QUARTERLY - FEBRUARY, MAY, AUGUST, NOVEMBER

- OIL 2 BLOWER MOTOR ASSEMBLIES (SQUIRREL CAGE)  
USE 20W NONDETERGENT OIL
- ADJUST A/D REFERENCE VOLTAGES (2.505V = '4000) (4.9865V = '7764)  
CHECK A/D RELAYS WITH CLT #1 DIAGNOSTIC

SEMI-ANNUAL - FEBRUARY, AUGUST

- CALIBRATE AND TEST FOXBORO/WESTINGHOUSE SYSTEMS
- CLEAN, LUBRICATE AND TEST OPERATION OF TELETYPEWRITER
- TEST POWER FAIL-AUTO RESTART SYSTEM WITH CLT #3 DIAGNOSTIC
- CHECK PARABAM CLOCK AND LOSS OF POWER BATTERY RESERVE

POWER SUPPLY VOLTAGES, INCLUDE AC RIPPLE WITH VOLTAGE SEPARATED WITH (/) EXAMPLE: 3.6/16

VOLTAGE                      AC RIPPLE IN MV

|                           |      |       |         |       |         |       |               |
|---------------------------|------|-------|---------|-------|---------|-------|---------------|
| <u>INTERFACE</u> MOD. 223 | 3.6V | _____ |         |       |         |       |               |
| MOD. 240                  | 3.6V | _____ | 12V     | _____ | 12V     | _____ | (-) 12V _____ |
| MOD. 240 (-)              | 6.3V | _____ | 6.3V    | _____ | 5V      | _____ |               |
| <u>COMPUTER</u> MOD. 221  | 3.6V | _____ | 5V      | _____ |         |       |               |
| MOD. 223                  | 3.6V | _____ |         |       |         |       |               |
| MOD. 222 (-)              | 6V   | _____ | (-) 10V | _____ | (-) 16V | _____ |               |
|                           | 40V  | _____ | 16V     | _____ | 35V     | _____ | 21V _____     |

ANNUAL - AUGUST

- WITH CLT #2 DIAGNOSTIC, CHECK ALL CONTROL PANEL AND TEU FUNCTIONS.
- WITH CLT #3 DIAGNOSTIC, CHECK PRIORITY INTERRUPTS AND POWER FAIL.
- WITH CLT #4 DIAGNOSTIC, TEST ALL OUTPUT AND INPUT LOGIC INCLUDING RELAYS.
- CLEAN, LUBRICATE AND CHECK HIGH SPEED TAPE READER.
- CHECK COMPUTER VIA 3½ HOUR ACCEPTANCE TEST DIAGNOSTIC.

SEL 810A

COMPUTER MAINTENANCE FORM

TECHNICIAN Troy Loh STATION 195 DATE 2-12-91

MONTHLY

- CLEAN 10 FILTERS
- CHECK 10 MUFFIN FANS, 2 BLOWERS
- REPLACE DEFECTIVE DISPLAY PANEL LAMPS
- INSPECT OPERATION OF FOXBORO/WESTINGHOUSE SYSTEMS
- CHECK WITH OPERATOR FOR UNUSUAL OPERATIONS

QUARTERLY - FEBRUARY, MAY, AUGUST, NOVEMBER

- OIL 2 BLOWER MOTOR ASSEMBLIES (SQUIRREL CAGE)  
USE 20W NONDETERGENT OIL
- ADJUST A/D REFERENCE VOLTAGES (2.505V = '4000) (4.9865V = '7764)  
CHECK A/D RELAYS WITH CLT #1 DIAGNOSTIC

SEMI-ANNUAL - FEBRUARY, AUGUST

- CALIBRATE AND TEST FOXBORO/WESTINGHOUSE SYSTEMS
- CLEAN, LUBRICATE AND TEST OPERATION OF TELETYPEWRITER
- TEST POWER FAIL-AUTO RESTART SYSTEM WITH CLT #3 DIAGNOSTIC
- CHECK PARABAM CLOCK AND LOSS OF POWER BATTERY RESERVE

POWER SUPPLY VOLTAGES, INCLUDE AC RIPPLE WITH VOLTAGE SEPARATED WITH (/) EXAMPLE: 3.6/16

VOLTAGE                      AC RIPPLE IN MV

|                           |          |       |         |       |         |       |               |
|---------------------------|----------|-------|---------|-------|---------|-------|---------------|
| <u>INTERFACE MOD.</u> 223 | 3.6V     | _____ |         |       |         |       |               |
| MOD. 240                  | 3.6V     | _____ | 12V     | _____ | 12V     | _____ | (-) 12V _____ |
| MOD. 240                  | (-) 6.3V | _____ | 6.3V    | _____ | 5V      | _____ |               |
| <u>COMPUTER MOD.</u> 221  | 3.6V     | _____ | 5V      | _____ |         |       |               |
| MOD. 223                  | 3.6V     | _____ |         |       |         |       |               |
| MOD. 222                  | (-) 6V   | _____ | (-) 10V | _____ | (-) 16V | _____ |               |
|                           | 40V      | _____ | 16V     | _____ | 35V     | _____ | 21V _____     |

ANNUAL - AUGUST

- WITH CLT #2 DIAGNOSTIC, CHECK ALL CONTROL PANEL AND TEU FUNCTIONS.
- WITH CLT #3 DIAGNOSTIC, CHECK PRIORITY INTERRUPTS AND POWER FAIL.
- WITH CLT #4 DIAGNOSTIC, TEST ALL OUTPUT AND INPUT LOGIC INCLUDING RELAYS.
- CLEAN, LUBRICATE AND CHECK HIGH SPEED TAPE READER.
- CHECK COMPUTER VIA 3½ HOUR ACCEPTANCE TEST DIAGNOSTIC.

SEL 810A

COMPUTER MAINTENANCE FORM

TECHNICIAN Troy Loh STATION 195 DATE 3-21-91

MONTHLY

- CLEAN 10 FILTERS
- CHECK 10 MUFFIN FANS, 2 BLOWERS
- REPLACE DEFECTIVE DISPLAY PANEL LAMPS
- INSPECT OPERATION OF FOXBORO/WESTINGHOUSE SYSTEMS
- CHECK WITH OPERATOR FOR UNUSUAL OPERATIONS

QUARTERLY - FEBRUARY, MAY, AUGUST, NOVEMBER

- OIL 2 BLOWER MOTOR ASSEMBLIES (SQUIRREL CAGE)  
USE 20W NONDETERGENT OIL
- ADJUST A/D REFERENCE VOLTAGES (2.505V = '4000) (4.9865V = '7764)  
CHECK A/D RELAYS WITH CLT #1 DIAGNOSTIC

SEMI-ANNUAL - FEBRUARY, AUGUST

- CALIBRATE AND TEST FOXBORO/WESTINGHOUSE SYSTEMS
- CLEAN, LUBRICATE AND TEST OPERATION OF TELETYPEWRITER
- TEST POWER FAIL-AUTO RESTART SYSTEM WITH CLT #3 DIAGNOSTIC
- CHECK PARABAM CLOCK AND LOSS OF POWER BATTERY RESERVE

POWER SUPPLY VOLTAGES, INCLUDE AC RIPPLE WITH VOLTAGE SEPARATED  
 WITH (/) EXAMPLE: 3.6/16

|                           | VOLTAGE                       | AC RIPPLE IN MV  |
|---------------------------|-------------------------------|--|
| <u>INTERFACE MOD.</u> 223 | 3.6V $\frac{3.60}{8.8}$       |  |
| MOD. 240                  | 3.6V $\frac{3.67}{4.6}$       | 12V $\frac{12.37}{6.8}$ 12V $\frac{12.07}{3.6}$ (-) 12V $\frac{-11.85}{6.0}$ |
| MOD. 240                  | (-) 6.3V $\frac{-6.21}{10.0}$ | 6.3V $\frac{6.18}{9.9}$ 5V $\frac{4.96}{7.7}$                                |
| <u>COMPUTER MOD.</u> 221  | 3.6V $\frac{3.62}{14.2}$      | 5V $\frac{5.07}{21.6}$   |
| MOD. 223                  | 3.6V $\frac{3.62}{15.8}$      |  |
| MOD. 222                  | (-) 6V $\frac{-5.84}{49}$     | (-) 10V $\frac{-11.53}{65}$ (-) 16V $\frac{-14.87}{280}$                     |
|                           | 40V $\frac{32.15}{2.4}$       | 16V $\frac{17.34}{26}$ 35V $\frac{33.0}{70}$ 21V $\frac{18.80}{140}$         |

ANNUAL - AUGUST

- WITH CLT #2 DIAGNOSTIC, CHECK ALL CONTROL PANEL AND TEU FUNCTIONS.
- WITH CLT #3 DIAGNOSTIC, CHECK PRIORITY INTERRUPTS AND POWER FAIL.
- WITH CLT #4 DIAGNOSTIC, TEST ALL OUTPUT AND INPUT LOGIC INCLUDING RELAYS.
- CLEAN, LUBRICATE AND CHECK HIGH SPEED TAPE READER.
- CHECK COMPUTER VIA 3½ HOUR ACCEPTANCE TEST DIAGNOSTIC.

SEL 810A

COMPUTER MAINTENANCE FORM

TECHNICIAN Tracy Ash STATION 195 DATE 7-30-91

MONTHLY

- CLEAN 10 FILTERS
- CHECK 10 MUFFIN FANS, 2 BLOWERS ← *Replace bad Muffins for one Mod. 222 Power supply.*
- REPLACE DEFECTIVE DISPLAY PANEL LAMPS
- INSPECT OPERATION OF FOXBORO/WESTINGHOUSE SYSTEMS
- CHECK WITH OPERATOR FOR UNUSUAL OPERATIONS

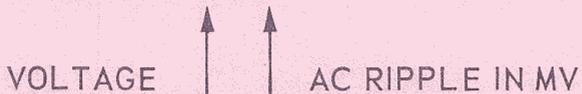
QUARTERLY - FEBRUARY, MAY, AUGUST, NOVEMBER

- OIL 2 BLOWER MOTOR ASSEMBLIES (SQUIRREL CAGE)  
USE 20W NONDETERGENT OIL
- ADJUST A/D REFERENCE VOLTAGES (2.505V = '4000) (4.9865V = '7764)  
CHECK A/D RELAYS WITH CLT #1 DIAGNOSTIC

SEMI-ANNUAL - FEBRUARY, AUGUST

- CALIBRATE AND TEST FOXBORO/WESTINGHOUSE SYSTEMS
- CLEAN, LUBRICATE AND TEST OPERATION OF TELETYPEWRITER
- TEST POWER FAIL-AUTO RESTART SYSTEM WITH CLT #3 DIAGNOSTIC
- CHECK PARABAM CLOCK AND LOSS OF POWER BATTERY RESERVE

POWER SUPPLY VOLTAGES, INCLUDE AC RIPPLE WITH VOLTAGE SEPARATED WITH (/) EXAMPLE: 3.6/16



|                           |          |       |         |       |         |       |  |
|---------------------------|----------|-------|---------|-------|---------|-------|--|
| <u>INTERFACE</u> MOD. 223 | 3.6V     | _____ |         |       |         |       |  |
| MOD. 240                  | 3.6V     | _____ | 12V     | _____ | 12V     | _____ | (-) 12V <span style="border-bottom: 1px solid black;">_____</span> |
| MOD. 240                  | (-) 6.3V | _____ | 6.3V    | _____ | 5V      | _____ |  |
| <u>COMPUTER</u> MOD. 221  | 3.6V     | _____ | 5V      | _____ |         |       |  |
| MOD. 223                  | 3.6V     | _____ |         |       |         |       |  |
| MOD. 222                  | (-) 6V   | _____ | (-) 10V | _____ | (-) 16V | _____ |  |
|                           | 40V      | _____ | 16V     | _____ | 35V     | _____ | 21V <span style="border-bottom: 1px solid black;">_____</span>     |

ANNUAL - AUGUST

- WITH CLT #2 DIAGNOSTIC, CHECK ALL CONTROL PANEL AND TEU FUNCTIONS.
- WITH CLT #3 DIAGNOSTIC, CHECK PRIORITY INTERRUPTS AND POWER FAIL.
- WITH CLT #4 DIAGNOSTIC, TEST ALL OUTPUT AND INPUT LOGIC INCLUDING RELAYS.
- CLEAN, LUBRICATE AND CHECK HIGH SPEED TAPE READER.
- CHECK COMPUTER VIA 3½ HOUR ACCEPTANCE TEST DIAGNOSTIC.

COMPUTER MAINTENANCE FORM

TECHNICIAN Tracy Losh STATION 195 DATE 9-5-91

MONTHLY

- CLEAN 10 FILTERS
- CHECK 10 MUFFIN FANS, 2 BLOWERS
- REPLACE DEFECTIVE DISPLAY PANEL LAMPS
- INSPECT OPERATION OF FOXBORO/WESTINGHOUSE SYSTEMS
- CHECK WITH OPERATOR FOR UNUSUAL OPERATIONS

QUARTERLY - FEBRUARY, MAY, AUGUST, NOVEMBER

- OIL 2 BLOWER MOTOR ASSEMBLIES (SQUIRREL CAGE)  
USE 20W NONDETERGENT OIL
- ADJUST A/D REFERENCE VOLTAGES (2.505V = '4000) (4.9865V = '7764)  
CHECK A/D RELAYS WITH CLT #1 DIAGNOSTIC

SEMI-ANNUAL - FEBRUARY, AUGUST

- CALIBRATE AND TEST FOXBORO/WESTINGHOUSE SYSTEMS
- CLEAN, LUBRICATE AND TEST OPERATION OF TELETYPEWRITER
- TEST POWER FAIL-AUTO RESTART SYSTEM WITH CLT #3 DIAGNOSTIC
- CHECK PARABAM CLOCK AND LOSS OF POWER BATTERY RESERVE

POWER SUPPLY VOLTAGES, INCLUDE AC RIPPLE WITH VOLTAGE SEPARATED  
 WITH (/) EXAMPLE: 3.6/16

|                           | VOLTAGE |                     | AC RIPPLE IN MV |                     |         |                     |
|---------------------------|---------|---------------------|-----------------|---------------------|---------|---------------------|
| <u>INTERFACE MOD.</u> 223 | 3.6V    | $\frac{3.6}{8.9}$   |                 |                     |         |                     |
| MOD. 240                  | 3.6V    | $\frac{3.66}{4.6}$  | 12V             | $\frac{12.30}{6.8}$ | 12V     | $\frac{12.07}{3.6}$ |
| MOD. 240 (-)              | 6.3V    | $\frac{6.2}{10.0}$  | 6.3V            | $\frac{6.15}{9.9}$  | 5V      | $\frac{5.0}{7.7}$   |
| <u>COMPUTER MOD.</u> 221  | 3.6V    | $\frac{3.60}{19.2}$ | 5V              | $\frac{5.05}{21.6}$ |         |                     |
| MOD. 223                  | 3.6V    | $\frac{3.61}{15.8}$ |                 |                     |         |                     |
| MOD. 222 (-)              | 6V      | $\frac{5.92}{49}$   | (-) 10V         | $\frac{11.53}{65}$  | (-) 16V | $\frac{14.87}{280}$ |
|                           | 40V     | $\frac{32.16}{2.8}$ | 16V             | $\frac{17.34}{26}$  | 35V     | $\frac{33.0}{70}$   |
|                           |         |                     |                 |                     | 21V     | $\frac{18.80}{120}$ |

ANNUAL - AUGUST

- WITH CLT #2 DIAGNOSTIC, CHECK ALL CONTROL PANEL AND TEU FUNCTIONS.
- WITH CLT #3 DIAGNOSTIC, CHECK PRIORITY INTERRUPTS AND POWER FAIL.
- WITH CLT #4 DIAGNOSTIC, TEST ALL OUTPUT AND INPUT LOGIC INCLUDING RELAYS.
- CLEAN, LUBRICATE AND CHECK HIGH SPEED TAPE READER.
- CHECK COMPUTER VIA 3 1/2 HOUR ACCEPTANCE TEST DIAGNOSTIC.

SEL 810A

COMPUTER MAINTENANCE FORM

TECHNICIAN Fray Lab STATION 195 DATE 4-18-92

MONTHLY

- CLEAN 10 FILTERS
- CHECK 10 MUFFIN FANS, 2 BLOWERS
- REPLACE DEFECTIVE DISPLAY PANEL LAMPS
- INSPECT OPERATION OF FOXBORO/WESTINGHOUSE SYSTEMS
- CHECK WITH OPERATOR FOR UNUSUAL OPERATIONS

QUARTERLY - FEBRUARY, MAY, AUGUST, NOVEMBER

- OIL 2 BLOWER MOTOR ASSEMBLIES (SQUIRREL CAGE)  
USE 20W NONDETERGENT OIL
- ADJUST A/D REFERENCE VOLTAGES (2.505V = '4000) (4.9865V = '7764)  
CHECK A/D RELAYS WITH CLT #1 DIAGNOSTIC

SEMI-ANNUAL - FEBRUARY, AUGUST

- CALIBRATE AND TEST FOXBORO/WESTINGHOUSE SYSTEMS
- CLEAN, LUBRICATE AND TEST OPERATION OF TELETYPEWRITER
- TEST POWER FAIL-AUTO RESTART SYSTEM WITH CLT #3 DIAGNOSTIC
- CHECK PARABAM CLOCK AND LOSS OF POWER BATTERY RESERVE

POWER SUPPLY VOLTAGES, INCLUDE AC RIPPLE WITH VOLTAGE SEPARATED  
 WITH (/) EXAMPLE: 3.6/16

VOLTAGE                      AC RIPPLE IN MV

|                           |          |       |         |       |         |       |               |
|---------------------------|----------|-------|---------|-------|---------|-------|---------------|
| <u>INTERFACE MOD.</u> 223 | 3.6V     | _____ |         |       |         |       |               |
| MOD. 240                  | 3.6V     | _____ | 12V     | _____ | 12V     | _____ | (-) 12V _____ |
| MOD. 240                  | (-) 6.3V | _____ | 6.3V    | _____ | 5V      | _____ |               |
| <u>COMPUTER MOD.</u> 221  | 3.6V     | _____ | 5V      | _____ |         |       |               |
| MOD. 223                  | 3.6V     | _____ |         |       |         |       |               |
| MOD. 222                  | (-) 6V   | _____ | (-) 10V | _____ | (-) 16V | _____ |               |
|                           | 40V      | _____ | 16V     | _____ | 35V     | _____ | 21V _____     |

ANNUAL - AUGUST

- WITH CLT #2 DIAGNOSTIC, CHECK ALL CONTROL PANEL AND TEU FUNCTIONS.
- WITH CLT #3 DIAGNOSTIC, CHECK PRIORITY INTERRUPTS AND POWER FAIL.
- WITH CLT #4 DIAGNOSTIC, TEST ALL OUTPUT AND INPUT LOGIC INCLUDING RELAYS.
- CLEAN, LUBRICATE AND CHECK HIGH SPEED TAPE READER.
- CHECK COMPUTER VIA 3½ HOUR ACCEPTANCE TEST DIAGNOSTIC.

SEL 810A

COMPUTER MAINTENANCE FORM

TECHNICIAN Tracy Loh STATION 195 DATE 5-26-92

MONTHLY

- CLEAN 10 FILTERS
- CHECK 10 MUFFIN FANS, 2 BLOWERS
- REPLACE DEFECTIVE DISPLAY PANEL LAMPS
- INSPECT OPERATION OF FOXBORO/WESTINGHOUSE SYSTEMS
- CHECK WITH OPERATOR FOR UNUSUAL OPERATIONS

QUARTERLY - FEBRUARY, MAY, AUGUST, NOVEMBER

- OIL 2 BLOWER MOTOR ASSEMBLIES (SQUIRREL CAGE)  
USE 20W NONDETERGENT OIL
- ADJUST A/D REFERENCE VOLTAGES (2.505V = '4000) (4.9865V = '7764)  
CHECK A/D RELAYS WITH CLT #1 DIAGNOSTIC

SEMI-ANNUAL - FEBRUARY, AUGUST

- CALIBRATE AND TEST FOXBORO/WESTINGHOUSE SYSTEMS
- CLEAN, LUBRICATE AND TEST OPERATION OF TELETYPEWRITER
- TEST POWER FAIL-AUTO RESTART SYSTEM WITH CLT #3 DIAGNOSTIC
- CHECK PARABAM CLOCK AND LOSS OF POWER BATTERY RESERVE

POWER SUPPLY VOLTAGES, INCLUDE AC RIPPLE WITH VOLTAGE SEPARATED WITH (/) EXAMPLE: 3.6/16

VOLTAGE      AC RIPPLE IN MV

|                       |          |          |       |         |       |         |                     |
|-----------------------|----------|----------|-------|---------|-------|---------|---------------------|
| <u>INTERFACE MOD.</u> | 223      | 3.6V     | _____ |         |       |         |                     |
|                       | MOD. 240 | 3.6V     | _____ | 12V     | _____ | 12V     | _____ (-) 12V _____ |
|                       | MOD. 240 | (-) 6.3V | _____ | 6.3V    | _____ | 5V      | _____               |
| <u>COMPUTER</u>       | MOD. 221 | 3.6V     | _____ | 5V      | _____ |         |                     |
|                       | MOD. 223 | 3.6V     | _____ |         |       |         |                     |
|                       | MOD. 222 | (-) 6V   | _____ | (-) 10V | _____ | (-) 16V | _____               |
|                       |          | 40V      | _____ | 16V     | _____ | 35V     | _____ 21V _____     |

ANNUAL - AUGUST

- WITH CLT #2 DIAGNOSTIC, CHECK ALL CONTROL PANEL AND TEU FUNCTIONS.
- WITH CLT #3 DIAGNOSTIC, CHECK PRIORITY INTERRUPTS AND POWER FAIL.
- WITH CLT #4 DIAGNOSTIC, TEST ALL OUTPUT AND INPUT LOGIC INCLUDING RELAYS.
- CLEAN, LUBRICATE AND CHECK HIGH SPEED TAPE READER.
- CHECK COMPUTER VIA 3½ HOUR ACCEPTANCE TEST DIAGNOSTIC.

SEL 810A

COMPUTER MAINTENANCE FORM

TECHNICIAN Tracy Loh STATION 195 DATE 7-22-92

MONTHLY

- CLEAN 10 FILTERS
- CHECK 10 MUFFIN FANS, 2 BLOWERS
- REPLACE DEFECTIVE DISPLAY PANEL LAMPS
- INSPECT OPERATION OF FOXBORO/WESTINGHOUSE SYSTEMS
- CHECK WITH OPERATOR FOR UNUSUAL OPERATIONS

QUARTERLY - FEBRUARY, MAY, AUGUST, NOVEMBER

- OIL 2 BLOWER MOTOR ASSEMBLIES (SQUIRREL CAGE)  
USE 20W NONDETERGENT OIL
- ADJUST A/D REFERENCE VOLTAGES (2.505V = '4000) (4.9865V = '7764)  
CHECK A/D RELAYS WITH CLT #1 DIAGNOSTIC

SEMI-ANNUAL - FEBRUARY, AUGUST

- CALIBRATE AND TEST FOXBORO/WESTINGHOUSE SYSTEMS
- CLEAN, LUBRICATE AND TEST OPERATION OF TELETYPEWRITER
- TEST POWER FAIL-AUTO RESTART SYSTEM WITH CLT #3 DIAGNOSTIC
- CHECK PARABAM CLOCK AND LOSS OF POWER BATTERY RESERVE

POWER SUPPLY VOLTAGES, INCLUDE AC RIPPLE WITH VOLTAGE SEPARATED WITH (/) EXAMPLE: 3.6/16

VOLTAGE      AC RIPPLE IN MV

|                       |          |          |       |         |       |         |               |
|-----------------------|----------|----------|-------|---------|-------|---------|---------------|
| <u>INTERFACE MOD.</u> | MOD. 223 | 3.6V     | _____ |         |       |         |               |
|                       | MOD. 240 | 3.6V     | _____ | 12V     | _____ | 12V     | (-) 12V _____ |
|                       | MOD. 240 | (-) 6.3V | _____ | 6.3V    | _____ | 5V      | _____         |
| <u>COMPUTER</u>       | MOD. 221 | 3.6V     | _____ | 5V      | _____ |         |               |
|                       | MOD. 223 | 3.6V     | _____ |         |       |         |               |
|                       | MOD. 222 | (-) 6V   | _____ | (-) 10V | _____ | (-) 16V | _____         |
|                       |          | 40V      | _____ | 16V     | _____ | 35V     | 21V _____     |

ANNUAL - AUGUST

- WITH CLT #2 DIAGNOSTIC, CHECK ALL CONTROL PANEL AND TEU FUNCTIONS.
- WITH CLT #3 DIAGNOSTIC, CHECK PRIORITY INTERRUPTS AND POWER FAIL.
- WITH CLT #4 DIAGNOSTIC, TEST ALL OUTPUT AND INPUT LOGIC INCLUDING RELAYS.
- CLEAN, LUBRICATE AND CHECK HIGH SPEED TAPE READER.
- CHECK COMPUTER VIA 3½ HOUR ACCEPTANCE TEST DIAGNOSTIC.

COMPUTER MAINTENANCE FORM

TECHNICIAN Tray Losh STATION 195 DATE 2-11-92

MONTHLY

- CLEAN 10 FILTERS
- CHECK 10 MUFFIN FANS, 2 BLOWERS
- REPLACE DEFECTIVE DISPLAY PANEL LAMPS
- INSPECT OPERATION OF FOXBORO/WESTINGHOUSE SYSTEMS
- CHECK WITH OPERATOR FOR UNUSUAL OPERATIONS

QUARTERLY - FEBRUARY, MAY, AUGUST, NOVEMBER

- OIL 2 BLOWER MOTOR ASSEMBLIES (SQUIRREL CAGE)  
USE 20W NONDETERGENT OIL
- ADJUST A/D REFERENCE VOLTAGES (2.505V = '4000) (4.9865V = '7764)  
CHECK A/D RELAYS WITH CLT #1 DIAGNOSTIC

SEMI-ANNUAL - FEBRUARY, AUGUST

- CALIBRATE AND TEST FOXBORO/WESTINGHOUSE SYSTEMS
- N/A  CLEAN, LUBRICATE AND TEST OPERATION OF TELETYPEWRITER
- TEST POWER FAIL-AUTO RESTART SYSTEM WITH CLT #3 DIAGNOSTIC
- CHECK PARABAM CLOCK AND LOSS OF POWER BATTERY RESERVE

POWER SUPPLY VOLTAGES, INCLUDE AC RIPPLE WITH VOLTAGE SEPARATED WITH (/) EXAMPLE: 3.6/16

|                           | VOLTAGE  | AC RIPPLE IN MV |         |             |         |             |                     |
|---------------------------|----------|-----------------|---------|-------------|---------|-------------|---------------------|
| <u>INTERFACE MOD.</u> 223 | 3.6V     | 3.6 / 8.9       |         |             |         |             |                     |
| MOD. 240                  | 3.6V     | 3.64 / 4.6      | 12V     | 12.35 / 6.8 | 12V     | 12.07 / 3.6 | (-) 12V 11.85 / 6.6 |
| MOD. 240                  | (-) 6.3V | 6.21 / 10.0     | 6.3V    | 6.16 / 10.0 | 5V      | 5.0 / 7.7   |                     |
| <u>COMPUTER MOD.</u> 221  | 3.6V     | 3.60 / 14.2     | 5V      | 5.06 / 21.7 |         |             |                     |
| MOD. 223                  | 3.6V     | 3.61 / 15.7     |         |             |         |             |                     |
| MOD. 222                  | (-) 6V   | 5.96 / 49       | (-) 10V | 11.53 / 65  | (-) 16V | 14.87 / 286 |                     |
|                           | 40V      | 32.10 / 2.8     | 16V     | 17.35 / 2.6 | 35V     | 33.1 / 70   | 21V 18.80 / 120     |

ANNUAL - AUGUST

- WITH CLT #2 DIAGNOSTIC, CHECK ALL CONTROL PANEL AND TEU FUNCTIONS.
- WITH CLT #3 DIAGNOSTIC, CHECK PRIORITY INTERRUPTS AND POWER FAIL.
- WITH CLT #4 DIAGNOSTIC, TEST ALL OUTPUT AND INPUT LOGIC INCLUDING RELAYS.
- CLEAN, LUBRICATE AND CHECK HIGH SPEED TAPE READER.
- CHECK COMPUTER VIA 3 1/2 HOUR ACCEPTANCE TEST DIAGNOSTIC.

COMPUTER MAINTENANCE FORM

TECHNICIAN Troy Losh STATION 195 DATE 8-10-92

MONTHLY

- CLEAN 10 FILTERS
- CHECK 10 MUFFIN FANS, 2 BLOWERS
- REPLACE DEFECTIVE DISPLAY PANEL LAMPS
- INSPECT OPERATION OF FOXBORO/WESTINGHOUSE SYSTEMS
- CHECK WITH OPERATOR FOR UNUSUAL OPERATIONS

QUARTERLY - FEBRUARY, MAY, AUGUST, NOVEMBER

- OIL 2 BLOWER MOTOR ASSEMBLIES (SQUIRREL CAGE)  
USE 20W NONDETERGENT OIL
- ADJUST A/D REFERENCE VOLTAGES (2.505V = '4000) (4.9865V = '7764)  
CHECK A/D RELAYS WITH CLT #1 DIAGNOSTIC

SEMI-ANNUAL - FEBRUARY, AUGUST

- CALIBRATE AND TEST FOXBORO/WESTINGHOUSE SYSTEMS
- N/A  CLEAN, LUBRICATE AND TEST OPERATION OF TELETYPEWRITER
- TEST POWER FAIL-AUTO RESTART SYSTEM WITH CLT #3 DIAGNOSTIC
- CHECK PARABAM CLOCK AND LOSS OF POWER BATTERY RESERVE

POWER SUPPLY VOLTAGES, INCLUDE AC RIPPLE WITH VOLTAGE SEPARATED WITH (/) EXAMPLE: 3.6/16

|                           | VOLTAGE | AC RIPPLE IN MV |
|---------------------------|---------|-----------------|
| <u>INTERFACE MOD. 223</u> | 3.6V    | 3.6 / 8.8       |
| MOD. 240                  | 3.6V    | 3.62 / 4.6      |
| MOD. 240 (-)              | 6.3V    | 6.22 / 10.2     |
| <u>COMPUTER MOD. 221</u>  | 3.6V    | 3.61 / 14.2     |
| MOD. 223                  | 3.6V    | 3.62 / 10.0     |
| MOD. 222 (-)              | 6V      | 5.84 / 49       |
|                           | 40V     | 31.37 / 2.1     |
|                           | 12V     | 12.35 / 6.8     |
|                           | 6.3V    | 6.2 / 100       |
|                           | 5V      | 5.08 / 21.9     |
|                           | (-) 10V | 11.47 / 65      |
|                           | 16V     | 17.34 / 27      |
|                           | (-) 12V | 12.07 / 3.6     |
|                           | 5V      | 5.0 / 2.7       |
|                           | (-) 16V | 14.58 / 280     |
|                           | 35V     | 32.9 / 20       |
|                           | 21V     | 18.79 / 126     |

ANNUAL - AUGUST

- WITH CLT #2 DIAGNOSTIC, CHECK ALL CONTROL PANEL AND TEU FUNCTIONS.
- WITH CLT #3 DIAGNOSTIC, CHECK PRIORITY INTERRUPTS AND POWER FAIL.
- WITH CLT #4 DIAGNOSTIC, TEST ALL OUTPUT AND INPUT LOGIC INCLUDING RELAYS.
- CLEAN, LUBRICATE AND CHECK HIGH SPEED TAPE READER.
- CHECK COMPUTER VIA 3 1/2 HOUR ACCEPTANCE TEST DIAGNOSTIC.

SEL 810A

COMPUTER MAINTENANCE FORM

TECHNICIAN *King Loh* STATION 195 DATE 9-24-92

MONTHLY

- CLEAN 10 FILTERS
- CHECK 10 MUFFIN FANS, 2 BLOWERS
- REPLACE DEFECTIVE DISPLAY PANEL LAMPS
- INSPECT OPERATION OF FOXBORO/WESTINGHOUSE SYSTEMS
- CHECK WITH OPERATOR FOR UNUSUAL OPERATIONS

QUARTERLY - FEBRUARY, MAY, AUGUST, NOVEMBER

- OIL 2 BLOWER MOTOR ASSEMBLIES (SQUIRREL CAGE)  
USE 20W NONDETERGENT OIL
- ADJUST A/D REFERENCE VOLTAGES (2.505V = '4000) (4.9865V = '7764)  
CHECK A/D RELAYS WITH CLT #1 DIAGNOSTIC

SEMI-ANNUAL - FEBRUARY, AUGUST

- CALIBRATE AND TEST FOXBORO/WESTINGHOUSE SYSTEMS
- CLEAN, LUBRICATE AND TEST OPERATION OF TELETYPEWRITER
- TEST POWER FAIL-AUTO RESTART SYSTEM WITH CLT #3 DIAGNOSTIC
- CHECK PARABAM CLOCK AND LOSS OF POWER BATTERY RESERVE

POWER SUPPLY VOLTAGES, INCLUDE AC RIPPLE WITH VOLTAGE SEPARATED WITH (/) EXAMPLE: 3.6/16

VOLTAGE      AC RIPPLE IN MV

|                           |          |          |       |         |       |         |                     |
|---------------------------|----------|----------|-------|---------|-------|---------|---------------------|
| <u>INTERFACE</u> MOD. 223 | 3.6V     | _____    |       |         |       |         |                     |
|                           | MOD. 240 | 3.6V     | _____ | 12V     | _____ | 12V     | _____ (-) 12V _____ |
|                           | MOD. 240 | (-) 6.3V | _____ | 6.3V    | _____ | 5V      | _____               |
| <u>COMPUTER</u> MOD. 221  | 3.6V     | _____    | 5V    | _____   |       |         |                     |
|                           | MOD. 223 | 3.6V     | _____ |         |       |         |                     |
|                           | MOD. 222 | (-) 6V   | _____ | (-) 10V | _____ | (-) 16V | _____               |
|                           |          | 40V      | _____ | 16V     | _____ | 35V     | _____ 21V _____     |

ANNUAL - AUGUST

- WITH CLT #2 DIAGNOSTIC, CHECK ALL CONTROL PANEL AND TEU FUNCTIONS.
- WITH CLT #3 DIAGNOSTIC, CHECK PRIORITY INTERRUPTS AND POWER FAIL.
- WITH CLT #4 DIAGNOSTIC, TEST ALL OUTPUT AND INPUT LOGIC INCLUDING RELAYS.
- CLEAN, LUBRICATE AND CHECK HIGH SPEED TAPE READER.
- CHECK COMPUTER VIA 3½ HOUR ACCEPTANCE TEST DIAGNOSTIC.

COMPUTER MAINTENANCE FORM

TECHNICIAN Tracy Loh STATION 195 DATE 11-4-92

MONTHLY

- CLEAN 10 FILTERS
- CHECK 10 MUFFIN FANS, 2 BLOWERS
- REPLACE DEFECTIVE DISPLAY PANEL LAMPS
- INSPECT OPERATION OF FOXBORO/WESTINGHOUSE SYSTEMS
- CHECK WITH OPERATOR FOR UNUSUAL OPERATIONS

QUARTERLY - FEBRUARY, MAY, AUGUST, NOVEMBER

- OIL 2 BLOWER MOTOR ASSEMBLIES (SQUIRREL CAGE)  
USE 20W NONDETERGENT OIL
- ADJUST A/D REFERENCE VOLTAGES (2.505V = '4000) (4.9865V = '7764)  
CHECK A/D RELAYS WITH CLT #1 DIAGNOSTIC

SEMI-ANNUAL - FEBRUARY, AUGUST

- CALIBRATE AND TEST FOXBORO/WESTINGHOUSE SYSTEMS
- CLEAN, LUBRICATE AND TEST OPERATION OF TELETYPEWRITER
- TEST POWER FAIL-AUTO RESTART SYSTEM WITH CLT #3 DIAGNOSTIC
- CHECK PARABAM CLOCK AND LOSS OF POWER BATTERY RESERVE

POWER SUPPLY VOLTAGES, INCLUDE AC RIPPLE WITH VOLTAGE SEPARATED  
 WITH (/) EXAMPLE: 3.6/16

VOLTAGE                      AC RIPPLE IN MV

|                           |          |       |         |       |         |       |               |
|---------------------------|----------|-------|---------|-------|---------|-------|---------------|
| <u>INTERFACE</u> MOD. 223 | 3.6V     | _____ |         |       |         |       |               |
| MOD. 240                  | 3.6V     | _____ | 12V     | _____ | 12V     | _____ | (-) 12V _____ |
| MOD. 240                  | (-) 6.3V | _____ | 6.3V    | _____ | 5V      | _____ |               |
| <u>COMPUTER</u> MOD. 221  | 3.6V     | _____ | 5V      | _____ |         |       |               |
| MOD. 223                  | 3.6V     | _____ |         |       |         |       |               |
| MOD. 222                  | (-) 6V   | _____ | (-) 10V | _____ | (-) 16V | _____ |               |
|                           | 40V      | _____ | 16V     | _____ | 35V     | _____ | 21V _____     |

ANNUAL - AUGUST

- WITH CLT #2 DIAGNOSTIC, CHECK ALL CONTROL PANEL AND TEU FUNCTIONS.
- WITH CLT #3 DIAGNOSTIC, CHECK PRIORITY INTERRUPTS AND POWER FAIL.
- WITH CLT #4 DIAGNOSTIC, TEST ALL OUTPUT AND INPUT LOGIC INCLUDING RELAYS.
- CLEAN, LUBRICATE AND CHECK HIGH SPEED TAPE READER.
- CHECK COMPUTER VIA 3½ HOUR ACCEPTANCE TEST DIAGNOSTIC.

SEL 810A

COMPUTER MAINTENANCE FORM

TECHNICIAN Tracy Loh STATION 195 DATE 1-18-93

MONTHLY

- CLEAN 10 FILTERS
- CHECK 10 MUFFIN FANS, 2 BLOWERS
- REPLACE DEFECTIVE DISPLAY PANEL LAMPS
- INSPECT OPERATION OF FOXBORO/WESTINGHOUSE SYSTEMS
- CHECK WITH OPERATOR FOR UNUSUAL OPERATIONS

QUARTERLY - FEBRUARY, MAY, AUGUST, NOVEMBER

- OIL 2 BLOWER MOTOR ASSEMBLIES (SQUIRREL CAGE)  
USE 20W NONDETERGENT OIL
- ADJUST A/D REFERENCE VOLTAGES (2.505V = '4000) (4.9865V = '7764)  
CHECK A/D RELAYS WITH CLT #1 DIAGNOSTIC

SEMI-ANNUAL - FEBRUARY, AUGUST

- CALIBRATE AND TEST FOXBORO/WESTINGHOUSE SYSTEMS
- CLEAN, LUBRICATE AND TEST OPERATION OF TELETYPEWRITER
- TEST POWER FAIL-AUTO RESTART SYSTEM WITH CLT #3 DIAGNOSTIC
- CHECK PARABAM CLOCK AND LOSS OF POWER BATTERY RESERVE

POWER SUPPLY VOLTAGES, INCLUDE AC RIPPLE WITH VOLTAGE SEPARATED WITH (/) EXAMPLE: 3.6/16

VOLTAGE      AC RIPPLE IN MV

|                       |          |          |       |         |       |         |                     |
|-----------------------|----------|----------|-------|---------|-------|---------|---------------------|
| <u>INTERFACE MOD.</u> | 223      | 3.6V     | _____ |         |       |         |                     |
|                       | MOD. 240 | 3.6V     | _____ | 12V     | _____ | 12V     | _____ (-) 12V _____ |
|                       | MOD. 240 | (-) 6.3V | _____ | 6.3V    | _____ | 5V      | _____               |
| <u>COMPUTER</u>       | MOD. 221 | 3.6V     | _____ | 5V      | _____ |         |                     |
|                       | MOD. 223 | 3.6V     | _____ |         |       |         |                     |
|                       | MOD. 222 | (-) 6V   | _____ | (-) 10V | _____ | (-) 16V | _____               |
|                       |          | 40V      | _____ | 16V     | _____ | 35V     | _____ 21V _____     |

ANNUAL - AUGUST

- WITH CLT #2 DIAGNOSTIC, CHECK ALL CONTROL PANEL AND TEU FUNCTIONS.
- WITH CLT #3 DIAGNOSTIC, CHECK PRIORITY INTERRUPTS AND POWER FAIL.
- WITH CLT #4 DIAGNOSTIC, TEST ALL OUTPUT AND INPUT LOGIC INCLUDING RELAYS.
- CLEAN, LUBRICATE AND CHECK HIGH SPEED TAPE READER.
- CHECK COMPUTER VIA 3½ HOUR ACCEPTANCE TEST DIAGNOSTIC.

COMPUTER MAINTENANCE FORM

TECHNICIAN Tray Losh STATION 195 DATE 2-10-93

MONTHLY

- CLEAN 10 FILTERS
- CHECK 10 MUFFIN FANS, 2 BLOWERS
- REPLACE DEFECTIVE DISPLAY PANEL LAMPS
- INSPECT OPERATION OF FOXBORO/WESTINGHOUSE SYSTEMS
- CHECK WITH OPERATOR FOR UNUSUAL OPERATIONS

QUARTERLY - FEBRUARY, MAY, AUGUST, NOVEMBER

- OIL 2 BLOWER MOTOR ASSEMBLIES (SQUIRREL CAGE)  
USE 20W NONDETERGENT OIL
- ADJUST A/D REFERENCE VOLTAGES (2.505V = '4000) (4.9865V = '7764)  
CHECK A/D RELAYS WITH CLT #1 DIAGNOSTIC

SEMI-ANNUAL - FEBRUARY, AUGUST

- CALIBRATE AND TEST FOXBORO/WESTINGHOUSE SYSTEMS
- CLEAN, LUBRICATE AND TEST OPERATION OF TELETYPEWRITER
- TEST POWER FAIL-AUTO RESTART SYSTEM WITH CLT #3 DIAGNOSTIC
- CHECK PARABAM CLOCK AND LOSS OF POWER BATTERY RESERVE

POWER SUPPLY VOLTAGES, INCLUDE AC RIPPLE WITH VOLTAGE SEPARATED WITH (/) EXAMPLE: 3.6/16

|                           | VOLTAGE                  | AC RIPPLE IN MV              |
|---------------------------|--------------------------|------------------------------|
| <u>INTERFACE MOD.</u> 223 | 3.6V $\frac{3.6}{8.8}$   |                              |
| MOD. 240                  | 3.6V $\frac{3.6}{4.6}$   | 12V $\frac{12.39}{6.8}$      |
| MOD. 240 (-)              | 6.3V $\frac{6.21}{10.2}$ | 6.3V $\frac{6.23}{10.0}$     |
| <u>COMPUTER MOD.</u> 221  | 3.6V $\frac{3.59}{10.0}$ | 5V $\frac{5.01}{15.0}$       |
| MOD. 223                  | 3.6V $\frac{3.55}{10.5}$ |                              |
| MOD. 222 (-)              | 6V $\frac{5.85}{4.8}$    | (-) 10V $\frac{11.52}{6.8}$  |
|                           | 40V $\frac{33.8}{2.1}$   | 16V $\frac{17.38}{2.7}$      |
|                           |                          | (-) 16V $\frac{15.82}{2.80}$ |
|                           |                          | 35V $\frac{33.2}{7.5}$       |
|                           |                          | 21V $\frac{18.8}{12.0}$      |
|                           |                          | (-) 12V $\frac{12.08}{3.8}$  |
|                           |                          | $\frac{11.88}{6.5}$          |

ANNUAL - AUGUST

- WITH CLT #2 DIAGNOSTIC, CHECK ALL CONTROL PANEL AND TEU FUNCTIONS.
- WITH CLT #3 DIAGNOSTIC, CHECK PRIORITY INTERRUPTS AND POWER FAIL.
- WITH CLT #4 DIAGNOSTIC, TEST ALL OUTPUT AND INPUT LOGIC INCLUDING RELAYS.
- CLEAN, LUBRICATE AND CHECK HIGH SPEED TAPE READER.
- CHECK COMPUTER VIA 3 1/2 HOUR ACCEPTANCE TEST DIAGNOSTIC.

COMPUTER MAINTENANCE FORM

TECHNICIAN Fray Loh STATION 125 DATE 5-12-93

MONTHLY

- CLEAN 10 FILTERS
- CHECK 10 MUFFIN FANS, 2 BLOWERS
- REPLACE DEFECTIVE DISPLAY PANEL LAMPS
- INSPECT OPERATION OF FOXBORO/WESTINGHOUSE SYSTEMS
- CHECK WITH OPERATOR FOR UNUSUAL OPERATIONS

QUARTERLY - FEBRUARY, MAY, AUGUST, NOVEMBER

- OIL 2 BLOWER MOTOR ASSEMBLIES (SQUIRREL CAGE)  
USE 20W NONDETERGENT OIL
- ADJUST A/D REFERENCE VOLTAGES (2.505V = '4000) (4.9865V = '7764)  
CHECK A/D RELAYS WITH CLT #1 DIAGNOSTIC

SEMI-ANNUAL - FEBRUARY, AUGUST

- CALIBRATE AND TEST FOXBORO/WESTINGHOUSE SYSTEMS
- CLEAN, LUBRICATE AND TEST OPERATION OF TELETYPEWRITER
- TEST POWER FAIL-AUTO RESTART SYSTEM WITH CLT #3 DIAGNOSTIC
- CHECK PARABAM CLOCK AND LOSS OF POWER BATTERY RESERVE

POWER SUPPLY VOLTAGES, INCLUDE AC RIPPLE WITH VOLTAGE SEPARATED WITH (/) EXAMPLE: 3.6/16

VOLTAGE      AC RIPPLE IN MV

|                       |          |          |       |         |       |         |                     |
|-----------------------|----------|----------|-------|---------|-------|---------|---------------------|
| <u>INTERFACE MOD.</u> | 223      | 3.6V     | _____ |         |       |         |                     |
|                       | MOD. 240 | 3.6V     | _____ | 12V     | _____ | 12V     | _____ (-) 12V _____ |
|                       | MOD. 240 | (-) 6.3V | _____ | 6.3V    | _____ | 5V      | _____               |
| <u>COMPUTER MOD.</u>  | 221      | 3.6V     | _____ | 5V      | _____ |         |                     |
|                       | MOD. 223 | 3.6V     | _____ |         |       |         |                     |
|                       | MOD. 222 | (-) 6V   | _____ | (-) 10V | _____ | (-) 16V | _____               |
|                       |          | 40V      | _____ | 16V     | _____ | 35V     | _____ 21V _____     |

ANNUAL - AUGUST

- WITH CLT #2 DIAGNOSTIC, CHECK ALL CONTROL PANEL AND TEU FUNCTIONS.
- WITH CLT #3 DIAGNOSTIC, CHECK PRIORITY INTERRUPTS AND POWER FAIL.
- WITH CLT #4 DIAGNOSTIC, TEST ALL OUTPUT AND INPUT LOGIC INCLUDING RELAYS.
- CLEAN, LUBRICATE AND CHECK HIGH SPEED TAPE READER.
- CHECK COMPUTER VIA 3½ HOUR ACCEPTANCE TEST DIAGNOSTIC.

SEL 810A

COMPUTER MAINTENANCE FORM

TECHNICIAN Tracy Loh STATION 195 DATE 5-21-93

MONTHLY

- CLEAN 10 FILTERS
- CHECK 10 MUFFIN FANS, 2 BLOWERS
- REPLACE DEFECTIVE DISPLAY PANEL LAMPS
- INSPECT OPERATION OF FOXBORO/WESTINGHOUSE SYSTEMS
- CHECK WITH OPERATOR FOR UNUSUAL OPERATIONS

QUARTERLY - FEBRUARY, MAY, AUGUST, NOVEMBER

- OIL 2 BLOWER MOTOR ASSEMBLIES (SQUIRREL CAGE)  
USE 20W NONDETERGENT OIL
- ADJUST A/D REFERENCE VOLTAGES (2.505V = '4000) (4.9865V = '7764)  
CHECK A/D RELAYS WITH CLT #1 DIAGNOSTIC

SEMI-ANNUAL - FEBRUARY, AUGUST

- CALIBRATE AND TEST FOXBORO/WESTINGHOUSE SYSTEMS
- CLEAN, LUBRICATE AND TEST OPERATION OF TELETYPEWRITER
- TEST POWER FAIL-AUTO RESTART SYSTEM WITH CLT #3 DIAGNOSTIC
- CHECK PARABAM CLOCK AND LOSS OF POWER BATTERY RESERVE

POWER SUPPLY VOLTAGES, INCLUDE AC RIPPLE WITH VOLTAGE SEPARATED  
 WITH (/) EXAMPLE: 3.6/16

VOLTAGE      AC RIPPLE IN MV

|                       |          |          |       |         |       |         |                     |
|-----------------------|----------|----------|-------|---------|-------|---------|---------------------|
| <u>INTERFACE MOD.</u> | 223      | 3.6V     | _____ |         |       |         |                     |
|                       | MOD. 240 | 3.6V     | _____ | 12V     | _____ | 12V     | _____ (-) 12V _____ |
|                       | MOD. 240 | (-) 6.3V | _____ | 6.3V    | _____ | 5V      | _____               |
| <u>COMPUTER</u>       | MOD. 221 | 3.6V     | _____ | 5V      | _____ |         |                     |
|                       | MOD. 223 | 3.6V     | _____ |         |       |         |                     |
|                       | MOD. 222 | (-) 6V   | _____ | (-) 10V | _____ | (-) 16V | _____               |
|                       |          | 40V      | _____ | 16V     | _____ | 35V     | _____ 21V _____     |

ANNUAL - AUGUST

- WITH CLT #2 DIAGNOSTIC, CHECK ALL CONTROL PANEL AND TEU FUNCTIONS.
- WITH CLT #3 DIAGNOSTIC, CHECK PRIORITY INTERRUPTS AND POWER FAIL.
- WITH CLT #4 DIAGNOSTIC, TEST ALL OUTPUT AND INPUT LOGIC INCLUDING RELAYS.
- CLEAN, LUBRICATE AND CHECK HIGH SPEED TAPE READER.
- CHECK COMPUTER VIA 3 1/2 HOUR ACCEPTANCE TEST DIAGNOSTIC.

SEL 810A

COMPUTER MAINTENANCE FORM

TECHNICIAN Tracy Losh STATION 195 DATE 8-20-93

MONTHLY

- CLEAN 10 FILTERS
- CHECK 10 MUFFIN FANS, 2 BLOWERS
- REPLACE DEFECTIVE DISPLAY PANEL LAMPS
- INSPECT OPERATION OF FOXBORO/WESTINGHOUSE SYSTEMS
- CHECK WITH OPERATOR FOR UNUSUAL OPERATIONS

QUARTERLY - FEBRUARY, MAY, AUGUST, NOVEMBER

- OIL 2 BLOWER MOTOR ASSEMBLIES (SQUIRREL CAGE)  
USE 20W NONDETERGENT OIL
- ADJUST A/D REFERENCE VOLTAGES (2.505V = '4000) (4.9865V = '7764)  
CHECK A/D RELAYS WITH CLT #1 DIAGNOSTIC

SEMI-ANNUAL - FEBRUARY, AUGUST

- CALIBRATE AND TEST FOXBORO/WESTINGHOUSE SYSTEMS
- CLEAN, LUBRICATE AND TEST OPERATION OF TELETYPEWRITER *Doc Writer*
- TEST POWER FAIL-AUTO RESTART SYSTEM WITH CLT #3 DIAGNOSTIC
- CHECK PARABAM CLOCK AND LOSS OF POWER BATTERY RESERVE

POWER SUPPLY VOLTAGES, INCLUDE AC RIPPLE WITH VOLTAGE SEPARATED  
 WITH (/) EXAMPLE: 3.6/16

|                           | VOLTAGE                   | AC RIPPLE IN MV             |
|---------------------------|---------------------------|-----------------------------|
| <u>INTERFACE MOD. 223</u> | 3.6V $\frac{3.6}{9}$      |                             |
| MOD. 240                  | 3.6V $\frac{3.61}{4.5}$   | 12V $\frac{12.44}{6.9}$     |
| MOD. 240 (-)              | 6.3V $\frac{6.20}{10.2}$  | 6.3V $\frac{6.22}{10.0}$    |
| <u>COMPUTER MOD. 221</u>  | 3.6V $\frac{3.6}{10.0}$   | 5V $\frac{4.99}{15.0}$      |
| MOD. 223                  | 3.6V $\frac{3.59}{10.5}$  |                             |
| MOD. 222 (-)              | 16V $\frac{-5.86}{2}$     | 10V $\frac{-11.52}{2.8}$    |
|                           | 40V $\frac{34.2}{2.96\%}$ | 16V $\frac{17.42}{19}$      |
|                           |                           | 35V $\frac{-16.02}{2.90}$   |
|                           |                           | 21V $\frac{33.2}{9.5}$      |
|                           |                           | 12V $\frac{12.15}{3.8}$     |
|                           |                           | (-) 12V $\frac{11.95}{6.4}$ |
|                           |                           | 21V $\frac{18.85}{1.20}$    |

ANNUAL - AUGUST

- WITH CLT #2 DIAGNOSTIC, CHECK ALL CONTROL PANEL AND TEU FUNCTIONS.
- WITH CLT #3 DIAGNOSTIC, CHECK PRIORITY INTERRUPTS AND POWER FAIL.
- WITH CLT #4 DIAGNOSTIC, TEST ALL OUTPUT AND INPUT LOGIC INCLUDING RELAYS.
- CLEAN, LUBRICATE AND CHECK HIGH SPEED TAPE READER.
- CHECK COMPUTER VIA 3½ HOUR ACCEPTANCE TEST DIAGNOSTIC.

SEL 810A

COMPUTER MAINTENANCE FORM

TECHNICIAN *Greg Loh* STATION 195 DATE 10.21.93

MONTHLY

- CLEAN 10 FILTERS
- CHECK 10 MUFFIN FANS, 2 BLOWERS
- REPLACE DEFECTIVE DISPLAY PANEL LAMPS
- INSPECT OPERATION OF FOXBORO/WESTINGHOUSE SYSTEMS
- CHECK WITH OPERATOR FOR UNUSUAL OPERATIONS

QUARTERLY - FEBRUARY, MAY, AUGUST, NOVEMBER

- OIL 2 BLOWER MOTOR ASSEMBLIES (SQUIRREL CAGE)  
USE 20W NONDETERGENT OIL
- ADJUST A/D REFERENCE VOLTAGES (2.505V = '4000) (4.9865V = '7764)  
CHECK A/D RELAYS WITH CLT #1 DIAGNOSTIC

SEMI-ANNUAL - FEBRUARY, AUGUST

- CALIBRATE AND TEST FOXBORO/WESTINGHOUSE SYSTEMS
- CLEAN, LUBRICATE AND TEST OPERATION OF TELETYPEWRITER
- TEST POWER FAIL-AUTO RESTART SYSTEM WITH CLT #3 DIAGNOSTIC
- CHECK PARABAM CLOCK AND LOSS OF POWER BATTERY RESERVE

POWER SUPPLY VOLTAGES, INCLUDE AC RIPPLE WITH VOLTAGE SEPARATED WITH (/) EXAMPLE: 3.6/16

VOLTAGE      AC RIPPLE IN MV

|                           |          |       |         |       |         |       |               |
|---------------------------|----------|-------|---------|-------|---------|-------|---------------|
| <u>INTERFACE</u> MOD. 223 | 3.6V     | _____ |         |       |         |       |               |
| MOD. 240                  | 3.6V     | _____ | 12V     | _____ | 12V     | _____ | (-) 12V _____ |
| MOD. 240                  | (-) 6.3V | _____ | 6.3V    | _____ | 5V      | _____ |               |
| <u>COMPUTER</u> MOD. 221  | 3.6V     | _____ | 5V      | _____ |         |       |               |
| MOD. 223                  | 3.6V     | _____ |         |       |         |       |               |
| MOD. 222                  | (-) 6V   | _____ | (-) 10V | _____ | (-) 16V | _____ |               |
|                           | 40V      | _____ | 16V     | _____ | 35V     | _____ | 21V _____     |

ANNUAL - AUGUST

- WITH CLT #2 DIAGNOSTIC, CHECK ALL CONTROL PANEL AND TEU FUNCTIONS.
- WITH CLT #3 DIAGNOSTIC, CHECK PRIORITY INTERRUPTS AND POWER FAIL.
- WITH CLT #4 DIAGNOSTIC, TEST ALL OUTPUT AND INPUT LOGIC INCLUDING RELAYS.
- CLEAN, LUBRICATE AND CHECK HIGH SPEED TAPE READER.
- CHECK COMPUTER VIA 3½ HOUR ACCEPTANCE TEST DIAGNOSTIC.

SEL 810A

COMPUTER MAINTENANCE FORM

TECHNICIAN Troy Loh STATION 195 DATE 12-9-93

MONTHLY

- CLEAN 10 FILTERS
- CHECK 10 MUFFIN FANS, 2 BLOWERS
- REPLACE DEFECTIVE DISPLAY PANEL LAMPS
- INSPECT OPERATION OF FOXBORO/WESTINGHOUSE SYSTEMS
- CHECK WITH OPERATOR FOR UNUSUAL OPERATIONS

QUARTERLY - FEBRUARY, MAY, AUGUST, NOVEMBER

- OIL 2 BLOWER MOTOR ASSEMBLIES (SQUIRREL CAGE)  
USE 20W NONDETERGENT OIL
- ADJUST A/D REFERENCE VOLTAGES (2.505V = '4000) (4.9865V = '7764)  
CHECK A/D RELAYS WITH CLT #1 DIAGNOSTIC

SEMI-ANNUAL - FEBRUARY, AUGUST

- CALIBRATE AND TEST FOXBORO/WESTINGHOUSE SYSTEMS
- CLEAN, LUBRICATE AND TEST OPERATION OF TELETYPEWRITER
- TEST POWER FAIL-AUTO RESTART SYSTEM WITH CLT #3 DIAGNOSTIC
- CHECK PARABAM CLOCK AND LOSS OF POWER BATTERY RESERVE

POWER SUPPLY VOLTAGES, INCLUDE AC RIPPLE WITH VOLTAGE SEPARATED WITH (/) EXAMPLE: 3.6/16

VOLTAGE                      AC RIPPLE IN MV

|                           |          |       |         |       |         |       |               |
|---------------------------|----------|-------|---------|-------|---------|-------|---------------|
| <u>INTERFACE MOD.</u> 223 | 3.6V     | _____ |         |       |         |       |               |
| MOD. 240                  | 3.6V     | _____ | 12V     | _____ | 12V     | _____ | (-) 12V _____ |
| MOD. 240                  | (-) 6.3V | _____ | 6.3V    | _____ | 5V      | _____ |               |
| <u>COMPUTER MOD.</u> 221  | 3.6V     | _____ | 5V      | _____ |         |       |               |
| MOD. 223                  | 3.6V     | _____ |         |       |         |       |               |
| MOD. 222                  | (-) 6V   | _____ | (-) 10V | _____ | (-) 16V | _____ |               |
|                           | 40V      | _____ | 16V     | _____ | 35V     | _____ | 21V _____     |

ANNUAL - AUGUST

- WITH CLT #2 DIAGNOSTIC, CHECK ALL CONTROL PANEL AND TEU FUNCTIONS.
- WITH CLT #3 DIAGNOSTIC, CHECK PRIORITY INTERRUPTS AND POWER FAIL.
- WITH CLT #4 DIAGNOSTIC, TEST ALL OUTPUT AND INPUT LOGIC INCLUDING RELAYS.
- CLEAN, LUBRICATE AND CHECK HIGH SPEED TAPE READER.
- CHECK COMPUTER VIA 3½ HOUR ACCEPTANCE TEST DIAGNOSTIC.

COMPUTER MAINTENANCE FORM

TECHNICIAN \_\_\_\_\_ STATION \_\_\_\_\_ DATE \_\_\_\_\_

MONTHLY

- CLEAN 10 FILTERS
- CHECK 10 MUFFIN FANS, 2 BLOWERS
- REPLACE DEFECTIVE DISPLAY PANEL LAMPS
- INSPECT OPERATION OF FOXBORO/WESTINGHOUSE SYSTEMS
- CHECK WITH OPERATOR FOR UNUSUAL OPERATIONS

QUARTERLY - FEBRUARY, MAY, AUGUST, NOVEMBER

- OIL 2 BLOWER MOTOR ASSEMBLIES (SQUIRREL CAGE)  
 USE 20W NONDETERGENT OIL
- ADJUST A/D REFERENCE VOLTAGES (2.505V = '4000) (4.9865V = '7764)  
 CHECK A/D RELAYS WITH CLT #1 DIAGNOSTIC

SEMI-ANNUAL - FEBRUARY, AUGUST

- CALIBRATE AND TEST FOXBORO/WESTINGHOUSE SYSTEMS
- CLEAN, LUBRICATE AND TEST OPERATION OF TELETYPEWRITER
- TEST POWER FAIL-AUTO RESTART SYSTEM WITH CLT #3 DIAGNOSTIC
- CHECK PARABAM CLOCK AND LOSS OF POWER BATTERY RESERVE

POWER SUPPLY VOLTAGES, INCLUDE AC RIPPLE WITH VOLTAGE SEPARATED  
 WITH (/) EXAMPLE: 3.6/16



|                       |          |          |       |         |       |         |                     |
|-----------------------|----------|----------|-------|---------|-------|---------|---------------------|
| <u>INTERFACE MOD.</u> | 223      | 3.6V     | _____ |         |       |         |                     |
|                       | MOD. 240 | 3.6V     | _____ | 12V     | _____ | 12V     | _____ (-) 12V _____ |
|                       | MOD. 240 | (-) 6.3V | _____ | 6.3V    | _____ | 5V      | _____               |
| <u>COMPUTER MOD.</u>  | 221      | 3.6V     | _____ | 5V      | _____ |         |                     |
|                       | MOD. 223 | 3.6V     | _____ |         |       |         |                     |
|                       | MOD. 222 | (-) 6V   | _____ | (-) 10V | _____ | (-) 16V | _____               |
|                       |          | 40V      | _____ | 16V     | _____ | 35V     | _____ 21V _____     |

ANNUAL - AUGUST

- WITH CLT #2 DIAGNOSTIC, CHECK ALL CONTROL PANEL AND TEU FUNCTIONS.
- WITH CLT #3 DIAGNOSTIC, CHECK PRIORITY INTERRUPTS AND POWER FAIL.
- WITH CLT #4 DIAGNOSTIC, TEST ALL OUTPUT AND INPUT LOGIC INCLUDING RELAYS.
- CLEAN, LUBRICATE AND CHECK HIGH SPEED TAPE READER.
- CHECK COMPUTER VIA 3½ HOUR ACCEPTANCE TEST DIAGNOSTIC.

SEL 810A

COMPUTER MAINTENANCE FORM

TECHNICIAN Troy Loh STATION 195 DATE 4-7-94

MONTHLY

- CLEAN 10 FILTERS
- CHECK 10 MUFFIN FANS, 2 BLOWERS
- REPLACE DEFECTIVE DISPLAY PANEL LAMPS
- INSPECT OPERATION OF FOXBORO/WESTINGHOUSE SYSTEMS
- CHECK WITH OPERATOR FOR UNUSUAL OPERATIONS

QUARTERLY - FEBRUARY, MAY, AUGUST, NOVEMBER

- OIL 2 BLOWER MOTOR ASSEMBLIES (SQUIRREL CAGE)  
USE 20W NONDETERGENT OIL
- ADJUST A/D REFERENCE VOLTAGES (2.505V = '4000) (4.9865V = '7764)  
CHECK A/D RELAYS WITH CLT #1 DIAGNOSTIC

SEMI-ANNUAL - FEBRUARY, AUGUST

- CALIBRATE AND TEST FOXBORO/WESTINGHOUSE SYSTEMS
- CLEAN, LUBRICATE AND TEST OPERATION OF TELETYPEWRITER
- TEST POWER FAIL-AUTO RESTART SYSTEM WITH CLT #3 DIAGNOSTIC
- CHECK PARABAM CLOCK AND LOSS OF POWER BATTERY RESERVE

POWER SUPPLY VOLTAGES, INCLUDE AC RIPPLE WITH VOLTAGE SEPARATED WITH (/) EXAMPLE: 3.6/16

VOLTAGE                      AC RIPPLE IN MV

|                           |          |       |         |       |         |       |               |
|---------------------------|----------|-------|---------|-------|---------|-------|---------------|
| <u>INTERFACE MOD.</u> 223 | 3.6V     | _____ |         |       |         |       |               |
| MOD. 240                  | 3.6V     | _____ | 12V     | _____ | 12V     | _____ | (-) 12V _____ |
| MOD. 240                  | (-) 6.3V | _____ | 6.3V    | _____ | 5V      | _____ |               |
| <u>COMPUTER MOD.</u> 221  | 3.6V     | _____ | 5V      | _____ |         |       |               |
| MOD. 223                  | 3.6V     | _____ |         |       |         |       |               |
| MOD. 222                  | (-) 6V   | _____ | (-) 10V | _____ | (-) 16V | _____ |               |
|                           | 40V      | _____ | 16V     | _____ | 35V     | _____ | 21V _____     |

ANNUAL - AUGUST

- WITH CLT #2 DIAGNOSTIC, CHECK ALL CONTROL PANEL AND TEU FUNCTIONS.
- WITH CLT #3 DIAGNOSTIC, CHECK PRIORITY INTERRUPTS AND POWER FAIL.
- WITH CLT #4 DIAGNOSTIC, TEST ALL OUTPUT AND INPUT LOGIC INCLUDING RELAYS.
- CLEAN, LUBRICATE AND CHECK HIGH SPEED TAPE READER.
- CHECK COMPUTER VIA 3½ HOUR ACCEPTANCE TEST DIAGNOSTIC.

SEL 810A

COMPUTER MAINTENANCE FORM

TECHNICIAN *Steve Job* STATION 195 DATE 7-12-94

MONTHLY

- CLEAN 10 FILTERS
- CHECK 10 MUFFIN FANS, 2 BLOWERS
- REPLACE DEFECTIVE DISPLAY PANEL LAMPS
- INSPECT OPERATION OF FOXBORO/WESTINGHOUSE SYSTEMS
- CHECK WITH OPERATOR FOR UNUSUAL OPERATIONS

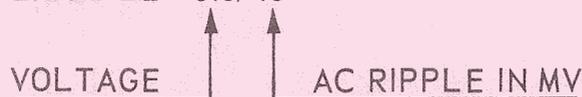
QUARTERLY - FEBRUARY, MAY, AUGUST, NOVEMBER

- OIL 2 BLOWER MOTOR ASSEMBLIES (SQUIRREL CAGE)  
USE 20W NONDETERGENT OIL
- ADJUST A/D REFERENCE VOLTAGES (2.505V = '4000) (4.9865V = '7764)  
CHECK A/D RELAYS WITH CLT #1 DIAGNOSTIC

SEMI-ANNUAL - FEBRUARY, AUGUST

- CALIBRATE AND TEST FOXBORO/WESTINGHOUSE SYSTEMS
- CLEAN, LUBRICATE AND TEST OPERATION OF TELETYPEWRITER
- TEST POWER FAIL-AUTO RESTART SYSTEM WITH CLT #3 DIAGNOSTIC
- CHECK PARABAM CLOCK AND LOSS OF POWER BATTERY RESERVE

POWER SUPPLY VOLTAGES, INCLUDE AC RIPPLE WITH VOLTAGE SEPARATED WITH (/) EXAMPLE: 3.6/16



|                       |          |          |       |         |       |         |       |         |       |
|-----------------------|----------|----------|-------|---------|-------|---------|-------|---------|-------|
| <u>INTERFACE MOD.</u> | MOD. 223 | 3.6V     | _____ |         |       |         |       |         |       |
|                       | MOD. 240 | 3.6V     | _____ | 12V     | _____ | 12V     | _____ | (-) 12V | _____ |
|                       | MOD. 240 | (-) 6.3V | _____ | 6.3V    | _____ | 5V      | _____ |         |       |
| <u>COMPUTER</u>       | MOD. 221 | 3.6V     | _____ | 5V      | _____ |         |       |         |       |
|                       | MOD. 223 | 3.6V     | _____ |         |       |         |       |         |       |
|                       | MOD. 222 | (-) 6V   | _____ | (-) 10V | _____ | (-) 16V | _____ |         |       |
|                       |          | 40V      | _____ | 16V     | _____ | 35V     | _____ | 21V     | _____ |

ANNUAL - AUGUST

- WITH CLT #2 DIAGNOSTIC, CHECK ALL CONTROL PANEL AND TEU FUNCTIONS.
- WITH CLT #3 DIAGNOSTIC, CHECK PRIORITY INTERRUPTS AND POWER FAIL.
- WITH CLT #4 DIAGNOSTIC, TEST ALL OUTPUT AND INPUT LOGIC INCLUDING RELAYS.
- CLEAN, LUBRICATE AND CHECK HIGH SPEED TAPE READER.
- CHECK COMPUTER VIA 3½ HOUR ACCEPTANCE TEST DIAGNOSTIC.

COMPUTER MAINTENANCE FORM

TECHNICIAN Troy Loh STATION 195 DATE 8-4-94

MONTHLY

- CLEAN 10 FILTERS
- CHECK 10 MUFFIN FANS, 2 BLOWERS
- REPLACE DEFECTIVE DISPLAY PANEL LAMPS
- INSPECT OPERATION OF FOXBORO/WESTINGHOUSE SYSTEMS
- CHECK WITH OPERATOR FOR UNUSUAL OPERATIONS

QUARTERLY - FEBRUARY, MAY, AUGUST, NOVEMBER

- OIL 2 BLOWER MOTOR ASSEMBLIES (SQUIRREL CAGE)  
USE 20W NONDETERGENT OIL
- ADJUST A/D REFERENCE VOLTAGES (2.505V = '4000) (4.9865V = '7764)  
CHECK A/D RELAYS WITH CLT #1 DIAGNOSTIC

SEMI-ANNUAL - FEBRUARY, AUGUST

- CALIBRATE AND TEST FOXBORO/WESTINGHOUSE SYSTEMS
- CLEAN, LUBRICATE AND TEST OPERATION OF TELETYPEWRITER
- TEST POWER FAIL-AUTO RESTART SYSTEM WITH CLT #3 DIAGNOSTIC
- CHECK PARABAM CLOCK AND LOSS OF POWER BATTERY RESERVE 30 mins. ok

POWER SUPPLY VOLTAGES, INCLUDE AC RIPPLE WITH VOLTAGE SEPARATED WITH (/) EXAMPLE: 3.6/16

|                           | VOLTAGE                  | AC RIPPLE IN MV              |
|---------------------------|--------------------------|------------------------------|
| <u>INTERFACE MOD. 223</u> | 3.6V $\frac{3.59}{13.8}$ |                              |
| MOD. 240                  | 3.6V $\frac{3.611}{3.3}$ | 12V $\frac{12.43}{24.5}$     |
| MOD. 240 (-)              | 6.3V $\frac{6.19}{6.9}$  | 6.3V $\frac{6.23}{8.0}$      |
| <u>COMPUTER MOD. 221</u>  | 3.6V $\frac{3.606}{4.7}$ | 5V $\frac{5.07}{6.3}$        |
| MOD. 223                  | 3.6V $\frac{3.604}{1.8}$ |                              |
| MOD. 222 (-)              | 6V $\frac{5.86}{2.7}$    | (-) 10V $\frac{-11.56}{30}$  |
| 40V                       | $\frac{34.12}{3.028}$    | 16V $\frac{17.37}{2.6}$      |
|                           |                          | (-) 16V $\frac{-15.98}{304}$ |
|                           |                          | 35V $\frac{32.95}{12.4}$     |
|                           |                          | 21V $\frac{18.78}{45}$       |

ANNUAL - AUGUST

- WITH CLT #2 DIAGNOSTIC, CHECK ALL CONTROL PANEL AND TEU FUNCTIONS.
- WITH CLT #3 DIAGNOSTIC, CHECK PRIORITY INTERRUPTS AND POWER FAIL.
- WITH CLT #4 DIAGNOSTIC, TEST ALL OUTPUT AND INPUT LOGIC INCLUDING RELAYS.
- CLEAN, LUBRICATE AND CHECK HIGH SPEED TAPE READER.
- CHECK COMPUTER VIA 3 1/2 HOUR ACCEPTANCE TEST DIAGNOSTIC.

UPS - 25 mins. ok

COMPUTER MAINTENANCE FORM

TECHNICIAN Tracy Losh STATION 195 DATE 2-13-95

MONTHLY

- CLEAN 10 FILTERS
- CHECK 10 MUFFIN FANS, 2 BLOWERS
- REPLACE DEFECTIVE DISPLAY PANEL LAMPS
- INSPECT OPERATION OF FOXBORO/WESTINGHOUSE SYSTEMS
- CHECK WITH OPERATOR FOR UNUSUAL OPERATIONS

QUARTERLY - FEBRUARY, MAY, AUGUST, NOVEMBER

- OIL 2 BLOWER MOTOR ASSEMBLIES (SQUIRREL CAGE)  
USE 20W NONDETERGENT OIL
- ADJUST A/D REFERENCE VOLTAGES (2.505V = '4000) (4.9865V = '7764)  
CHECK A/D RELAYS WITH CLT #1 DIAGNOSTIC

SEMI-ANNUAL - FEBRUARY, AUGUST

- CALIBRATE AND TEST FOXBORO/WESTINGHOUSE SYSTEMS
- CLEAN, LUBRICATE AND TEST OPERATION OF TELETYPEWRITER
- TEST POWER FAIL-AUTO RESTART SYSTEM WITH CLT #3 DIAGNOSTIC
- CHECK PARABAM CLOCK AND LOSS OF POWER BATTERY RESERVE
- UPS Reserve  
POWER SUPPLY VOLTAGES, INCLUDE AC RIPPLE WITH VOLTAGE SEPARATED  
WITH (/) EXAMPLE: 3.6/16

|                           | VOLTAGE  |                     | AC RIPPLE IN MV |                      |         |   |
|---------------------------|----------|---------------------|-----------------|----------------------|---------|---|
| <u>INTERFACE MOD.</u> 223 | 3.6V     | $\frac{3.60}{13.7}$ |                 |                      |         |   |
| MOD. 240                  | 3.6V     | $\frac{3.61}{3.3}$  | 12V             | $\frac{12.43}{24.6}$ | 12V     | $\frac{12.13}{13.2}$ (-) 12V $\frac{11.92}{11.4}$ |
| MOD. 240                  | (-) 6.3V | $\frac{6.20}{6.9}$  | 6.3V            | $\frac{6.23}{8.0}$   | 5V      | $\frac{4.95}{4.3}$                                |
| <u>COMPUTER MOD.</u> 221  | 3.6V     | $\frac{3.6}{4.7}$   | 5V              | $\frac{5.06}{6.3}$   |         |   |
| MOD. 223                  | 3.6V     | $\frac{3.6}{1.8}$   |                 |                      |         |   |
| MOD. 222                  | (-) 6V   | $\frac{-5.89}{}$    | (-) 10V         | $\frac{-11.59}{}$    | (-) 16V | $\frac{-15.93}{}$                                 |
|                           | 40V      | $\frac{33.99}{}$    | 16V             | $\frac{17.42}{}$     | 35V     | $\frac{33.07}{}$ 21V $\frac{18.68}{}$             |

ANNUAL - AUGUST

- WITH CLT #2 DIAGNOSTIC, CHECK ALL CONTROL PANEL AND TEU FUNCTIONS.
- WITH CLT #3 DIAGNOSTIC, CHECK PRIORITY INTERRUPTS AND POWER FAIL.
- WITH CLT #4 DIAGNOSTIC, TEST ALL OUTPUT AND INPUT LOGIC INCLUDING RELAYS.
- CLEAN, LUBRICATE AND CHECK HIGH SPEED TAPE READER.
- CHECK COMPUTER VIA 3½ HOUR ACCEPTANCE TEST DIAGNOSTIC.

SEL 810A

COMPUTER MAINTENANCE FORM

TECHNICIAN Tracy Losh STATION 195 DATE 5-25-95

MONTHLY

- CLEAN 10 FILTERS
- CHECK 10 MUFFIN FANS, 2 BLOWERS
- REPLACE DEFECTIVE DISPLAY PANEL LAMPS
- INSPECT OPERATION OF FOXBORO/WESTINGHOUSE SYSTEMS
- CHECK WITH OPERATOR FOR UNUSUAL OPERATIONS

QUARTERLY - FEBRUARY, MAY, AUGUST, NOVEMBER

- OIL 2 BLOWER MOTOR ASSEMBLIES (SQUIRREL CAGE)  
USE 20W NONDETERGENT OIL
- ADJUST A/D REFERENCE VOLTAGES (2.505V = '4000) (4.9865V = '7764)  
CHECK A/D RELAYS WITH CLT #1 DIAGNOSTIC

SEMI-ANNUAL - FEBRUARY, AUGUST

- CALIBRATE AND TEST FOXBORO/WESTINGHOUSE SYSTEMS
- CLEAN, LUBRICATE AND TEST OPERATION OF TELETYPEWRITER
- TEST POWER FAIL-AUTO RESTART SYSTEM WITH CLT #3 DIAGNOSTIC
- CHECK PARABAM CLOCK AND LOSS OF POWER BATTERY RESERVE

POWER SUPPLY VOLTAGES, INCLUDE AC RIPPLE WITH VOLTAGE SEPARATED WITH (/) EXAMPLE: 3.6/16

VOLTAGE      AC RIPPLE IN MV

|                           |          |          |       |         |       |         |                     |
|---------------------------|----------|----------|-------|---------|-------|---------|---------------------|
| <u>INTERFACE MOD.</u> 223 | 3.6V     | _____    |       |         |       |         |                     |
|                           | MOD. 240 | 3.6V     | _____ | 12V     | _____ | 12V     | _____ (-) 12V _____ |
|                           | MOD. 240 | (-) 6.3V | _____ | 6.3V    | _____ | 5V      | _____               |
| <u>COMPUTER MOD.</u> 221  | 3.6V     | _____    | 5V    | _____   |       |         |                     |
|                           | MOD. 223 | 3.6V     | _____ |         |       |         |                     |
|                           | MOD. 222 | (-) 6V   | _____ | (-) 10V | _____ | (-) 16V | _____               |
|                           |          | 40V      | _____ | 16V     | _____ | 35V     | _____ 21V _____     |

ANNUAL - AUGUST

- WITH CLT #2 DIAGNOSTIC, CHECK ALL CONTROL PANEL AND TEU FUNCTIONS.
- WITH CLT #3 DIAGNOSTIC, CHECK PRIORITY INTERRUPTS AND POWER FAIL.
- WITH CLT #4 DIAGNOSTIC, TEST ALL OUTPUT AND INPUT LOGIC INCLUDING RELAYS.
- CLEAN, LUBRICATE AND CHECK HIGH SPEED TAPE READER.
- CHECK COMPUTER VIA 3½ HOUR ACCEPTANCE TEST DIAGNOSTIC.

SEL 810A

COMPUTER MAINTENANCE FORM

TECHNICIAN Tracy Loh STATION 195 DATE 1-29-96

MONTHLY

- CLEAN 10 FILTERS
- CHECK 10 MUFFIN FANS, 2 BLOWERS
- REPLACE DEFECTIVE DISPLAY PANEL LAMPS
- INSPECT OPERATION OF FOXBORO/WESTINGHOUSE SYSTEMS
- CHECK WITH OPERATOR FOR UNUSUAL OPERATIONS

QUARTERLY - FEBRUARY, MAY, AUGUST, NOVEMBER

- OIL 2 BLOWER MOTOR ASSEMBLIES (SQUIRREL CAGE)  
USE 20W NONDETERGENT OIL
- ADJUST A/D REFERENCE VOLTAGES (2.505V = '4000) (4.9865V = '7764)  
CHECK A/D RELAYS WITH CLT #1 DIAGNOSTIC

SEMI-ANNUAL - FEBRUARY, AUGUST

- CALIBRATE AND TEST FOXBORO/WESTINGHOUSE SYSTEMS
- CLEAN, LUBRICATE AND TEST OPERATION OF TELETYPEWRITER
- TEST POWER FAIL-AUTO RESTART SYSTEM WITH CLT #3 DIAGNOSTIC
- CHECK PARABAM CLOCK AND LOSS OF POWER BATTERY RESERVE

POWER SUPPLY VOLTAGES, INCLUDE AC RIPPLE WITH VOLTAGE SEPARATED WITH (/) EXAMPLE: 3.6/16

VOLTAGE                      AC RIPPLE IN MV

|                           |          |       |         |       |         |       |               |
|---------------------------|----------|-------|---------|-------|---------|-------|---------------|
| <u>INTERFACE MOD.</u> 223 | 3.6V     | _____ |         |       |         |       |               |
| MOD. 240                  | 3.6V     | _____ | 12V     | _____ | 12V     | _____ | (-) 12V _____ |
| MOD. 240                  | (-) 6.3V | _____ | 6.3V    | _____ | 5V      | _____ |               |
| <u>COMPUTER MOD.</u> 221  | 3.6V     | _____ | 5V      | _____ |         |       |               |
| MOD. 223                  | 3.6V     | _____ |         |       |         |       |               |
| MOD. 222                  | (-) 6V   | _____ | (-) 10V | _____ | (-) 16V | _____ |               |
|                           | 40V      | _____ | 16V     | _____ | 35V     | _____ | 21V _____     |

ANNUAL - AUGUST

- WITH CLT #2 DIAGNOSTIC, CHECK ALL CONTROL PANEL AND TEU FUNCTIONS.
- WITH CLT #3 DIAGNOSTIC, CHECK PRIORITY INTERRUPTS AND POWER FAIL.
- WITH CLT #4 DIAGNOSTIC, TEST ALL OUTPUT AND INPUT LOGIC INCLUDING RELAYS.
- CLEAN, LUBRICATE AND CHECK HIGH SPEED TAPE READER.
- CHECK COMPUTER VIA 3½ HOUR ACCEPTANCE TEST DIAGNOSTIC.

HALTED Reload; Boot STRAPP  
 LOADER;  
 STATION TAPE.

STATION COPY - WHITE  
 STATION 106 - YELLOW  
 TECH COPY - PINK

SEL 810A

COMPUTER MAINTENANCE FORM

TECHNICIAN RUP STATION 195 DATE 11-2-1999

MONTHLY

- CLEAN 10 FILTERS       CHECK 10 MUFFIN FANS, 2 BLOWERS
- REPLACE DEFECTIVE DISPLAY PANEL LAMPS
- INSPECT OPERATION OF FOXBORO/WESTINGHOUSE SYSTEMS
- CHECK WITH OPERATOR FOR UNUSUAL OPERATIONS

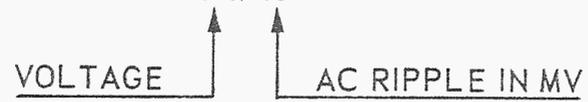
QUARTERLY - FEBRUARY, MAY, AUGUST, NOVEMBER

- OIL 2 BLOWER MOTOR ASSEMBLIES (SQUIRREL CAGE)  
 USE 20W NONDETERGENT OIL
- ADJUST A/D REFERENCE VOLTAGES (2.505V = '4000) (4.9865V = '7764)  
 CHECK A/D RELAYS WITH CLT #1 DIAGNOSTIC

SEMI-ANNUAL - FEBRUARY, AUGUST

- CALIBRATE AND TEST FOXBORO/WESTINGHOUSE SYSTEMS
- CLEAN, LUBRICATE AND TEST OPERATION OF TELETYPEWRITER
- TEST POWER FAIL-AUTO RESTART SYSTEM WITH CLT #3 DIAGNOSTIC
- CHECK PARABAM CLOCK AND LOSS OF POWER BATTERY RESERVE

POWER SUPPLY VOLTAGES, INCLUDE AC RIPPLE WITH VOLTAGE SEPARATED WITH (/) EXAMPLE: 3.6/16



|                       |          |          |                       |         |                     |         |                      |                             |
|-----------------------|----------|----------|-----------------------|---------|---------------------|---------|----------------------|-----------------------------|
| <u>INTERFACE MOD.</u> | 223      | 3.6V     | <u>3.60</u> (2123)    |         |                     |         |                      |                             |
|                       | MOD. 240 | 3.6V     | <u>3.711</u> / 6mV    | 12V     | <u>11.94</u> / 21mV | 12V     | <u>12.04</u> / 5mV   | (-) 12V <u>-12.22</u> / 4mV |
|                       | MOD. 240 | (-) 6.3V | <u>6.116</u> / 7mV    | 6.3V    | <u>6.18</u> / 9mV   | 5V      | <u>4.93</u> / 6mV    |                             |
| <u>COMPUTER</u>       | MOD. 221 | 3.6V     | <u>3.789</u> / 5mV    | 5V      | <u>5.16</u> / 6mV   |         |                      |                             |
|                       | MOD. 223 | 3.6V     | <u>3.727</u> / 3mV    |         | <u>3.609</u>        |         |                      |                             |
|                       | MOD. 222 | (-) 6V   | <u>5.85</u> / 5mV     | (-) 10V | <u>11.53</u> / 11.1 | (-) 16V | <u>15.48</u> / 269mV |                             |
|                       |          | 40V      | <u>33.29</u> / 2.8VAC | 16V     | <u>17.29</u> / 17mV | 35V     | <u>33.02</u> / 1mV   | 21V <u>18.66</u> / 3mV      |

ANNUAL - AUGUST

- WITH CLT #2 DIAGNOSTIC, CHECK ALL CONTROL PANEL AND TEU FUNCTIONS.
- WITH CLT #3 DIAGNOSTIC, CHECK PRIORITY INTERRUPTS AND POWER FAIL.
- WITH CLT #4 DIAGNOSTIC, TEST ALL OUTPUT AND INPUT LOGIC INCLUDING RELAYS.
- CLEAN, LUBRICATE AND CHECK HIGH SPEED TAPE READER.
- CHECK COMPUTER VIA 3 1/2 HOUR ACCEPTANCE TEST DIAGNOSTIC.

SEL 810A

COMPUTER MAINTENANCE FORM

TECHNICIAN RLP STATION 195 DATE 6-29-99

MONTHLY

- CLEAN 10 FILTERS
- CHECK 10 MUFFIN FANS, 2 BLOWERS
- REPLACE DEFECTIVE DISPLAY PANEL LAMPS
- INSPECT OPERATION OF FOXBORO/WESTINGHOUSE SYSTEMS
- CHECK WITH OPERATOR FOR UNUSUAL OPERATIONS

Computer halted  
Power Failure  
Reload station program  
Reboot

QUARTERLY - FEBRUARY, MAY, AUGUST, NOVEMBER

- OIL 2 BLOWER MOTOR ASSEMBLIES (SQUIRREL CAGE)  
 USE 20W NONDETERGENT OIL
- ADJUST A/D REFERENCE VOLTAGES (2.505V = '4000) (4.9865V = '7764)  
 CHECK A/D RELAYS WITH CLT #1 DIAGNOSTIC

SEMI-ANNUAL - FEBRUARY, AUGUST

- CALIBRATE AND TEST FOXBORO/WESTINGHOUSE SYSTEMS
- CLEAN, LUBRICATE AND TEST OPERATION OF TELETYPEWRITER
- TEST POWER FAIL-AUTO RESTART SYSTEM WITH CLT #3 DIAGNOSTIC
- CHECK PARABAM CLOCK AND LOSS OF POWER BATTERY RESERVE

POWER SUPPLY VOLTAGES, INCLUDE AC RIPPLE WITH VOLTAGE SEPARATED WITH (/) EXAMPLE: 3.6/16

VOLTAGE                      AC RIPPLE IN MV

|                           |          |                  |         |                  |         |                    |         |                   |
|---------------------------|----------|------------------|---------|------------------|---------|--------------------|---------|-------------------|
| <u>INTERFACE MOD. 223</u> | 3.6V     | <u>3.60</u>      |         |                  |         |                    |         |                   |
| MOD. 240                  | 3.6V     | <u>3.7</u>       | 12V     | <u>11.9</u>      | 12V     | <u>12.6</u>        | (-) 12V | <u>12.2</u>       |
| MOD. 240                  | (-) 6.3V | <u>6.15</u>      | 6.3V    | <u>6.21</u>      | 5V      | <u>4.92</u>        |         |                   |
| <u>COMPUTER MOD. 221</u>  | 3.6V     | <u>3.78</u>      | 5V      | <u>5.21</u>      | (FRONT) |                    |         |                   |
| MOD. 223                  | 3.6V     | <u>3.72</u>      | (FRONT) |                  |         |                    |         |                   |
| MOD. 222                  | (-) 6V   | <u>-5.80/4mv</u> | (-) 10V | <u>-11.5/9mv</u> | (-) 16V | <u>15.49/289mv</u> |         |                   |
|                           | 40V      | <u>33.08/3mv</u> | 16V     | <u>17.30/3mv</u> | 35V     | <u>33/14mv</u>     | 21V     | <u>18.75/66mv</u> |

INPUT 116.0VAC  
ANNUAL - AUGUST

- WITH CLT #2 DIAGNOSTIC, CHECK ALL CONTROL PANEL AND TEU FUNCTIONS.
- WITH CLT #3 DIAGNOSTIC, CHECK PRIORITY INTERRUPTS AND POWER FAIL.
- WITH CLT #4 DIAGNOSTIC, TEST ALL OUTPUT AND INPUT LOGIC INCLUDING RELAYS.
- CLEAN, LUBRICATE AND CHECK HIGH SPEED TAPE READER.
- CHECK COMPUTER VIA 3½ HOUR ACCEPTANCE TEST DIAGNOSTIC.

COMPUTER MAINTENANCE FORM

TECHNICIAN Price STATION 195 DATE 5/08/00

MONTHLY Rebooted as found TTY OFF LINE  
PUT ON-LINE and RELOADAO  
FOXBORO PS OFF

- CLEAN 10 FILTERS
- CHECK 10 MUFFIN FANS, 2 BLOWERS
- REPLACE DEFECTIVE DISPLAY PANEL LAMPS
- INSPECT OPERATION OF FOXBORO/WESTINGHOUSE SYSTEMS
- CHECK WITH OPERATOR FOR UNUSUAL OPERATIONS

QUARTERLY - FEBRUARY, MAY, AUGUST, NOVEMBER

- OIL 2 BLOWER MOTOR ASSEMBLIES (SQUIRREL CAGE)  
 USE 20W NONDETERGENT OIL
- ADJUST A/D REFERENCE VOLTAGES (2.505V = '4000) (4.9865V = '7764)  
 CHECK A/D RELAYS WITH CLT #1 DIAGNOSTIC

SEMI-ANNUAL - FEBRUARY, AUGUST

- CALIBRATE AND TEST FOXBORO/WESTINGHOUSE SYSTEMS
- CLEAN, LUBRICATE AND TEST OPERATION OF TELETYPEWRITER
- TEST POWER FAIL-AUTO RESTART SYSTEM WITH CLT #3 DIAGNOSTIC
- CHECK PARABAM CLOCK AND LOSS OF POWER BATTERY RESERVE

POWER SUPPLY VOLTAGES, INCLUDE AC RIPPLE WITH VOLTAGE SEPARATED  
 WITH (/) EXAMPLE: 3.6/16

VOLTAGE      AC RIPPLE IN MV

|                       |          |          |  |                   |         |                     |         |  |
|-----------------------|----------|----------|--|-------------------|---------|---------------------|---------|--|
| <u>INTERFACE MOD.</u> | MOD. 223 | 3.6V     |  | <u>3.614(16)</u>  |         |                     |         |  |
|                       | MOD. 240 | 3.6V     |  | <u>3.73(5)</u>    | 12V     | <u>11.91(25)</u>    | 12V     | <u>12.03(2)</u> (-) 12V <u>12.22</u>           |
|                       | MOD. 240 | (-) 6.3V |  | <u>6.17(6mv)</u>  | 6.3V    | <u>6.20(9mv)</u>    | 5V      | <u>4.94(6mv)</u>                               |
| <u>COMPUTER</u>       | MOD. 221 | 3.6V     |  | <u>3.819/4mv</u>  | 5V      | <u>5.16/4mv</u>     |         |  |
|                       | MOD. 223 | 3.6V     |  | <u>3.688/4mv</u>  |         |                     |         |  |
|                       | MOD. 222 | (-) 6V   |  | <u>5.85(4mv)</u>  | (-) 10V | <u>11.54(8.6mv)</u> | (-) 16V | <u>15.74(272mv)</u>                            |
|                       |          | 40V      |  | <u>33.68(289)</u> | 16V     | <u>17.23(6mv)</u>   | 35V     | <u>32.25</u> 21V <u>18.68</u><br>(14.2) (60mv) |

ANNUAL - AUGUST

- WITH CLT #2 DIAGNOSTIC, CHECK ALL CONTROL PANEL AND TEU FUNCTIONS.
- WITH CLT #3 DIAGNOSTIC, CHECK PRIORITY INTERRUPTS AND POWER FAIL.
- WITH CLT #4 DIAGNOSTIC, TEST ALL OUTPUT AND INPUT LOGIC INCLUDING RELAYS.
- CLEAN, LUBRICATE AND CHECK HIGH SPEED TAPE READER.
- CHECK COMPUTER VIA 3½ HOUR ACCEPTANCE TEST DIAGNOSTIC.