EVALUATION REPORT
FOR

GPT-10KAD TRANSMITTER
(PRESS WIRELESS SN 2908)

COMPILED FOR ITT WORLD COMMUNICATIONS

REPORT COMPILED _____

APPROVED _____

CONDITION OF EQUIPMENT ON RECEIPT

The transmitter is a TMC Model GPT-10KAD S/N 450 (Press Wireless S/N 2908). The indicated filament running time is 5582.2 hours. The plate time meter is inoperative. From the age and condition of this transmitter, it can be assumed that the filament hour meter is at least on its second 10,000 hour cycle.

The transmitter is saturated with an oily residue which entered through the air intake system. It is not the result of extended storage in such an environment. The entire assembly requires degreasing. There is also evidence of the transmitter being exposed to a salt-air,or other corrosive atmosphere.

The high-voltage interlock system has been modified to use shorting insert type interlocks, rather than the original micro-switches. A further modification has eliminated the original HV shorting relay (deadman), by using door actuated mechanical shorting contacts. A third modification utilizes a latching relay and "on/off" push buttons instead of the original HV circuit breaker for controlling the application of HV. The circuit breaker is still used for protection of the HV circuit.

The PA tube blower circuit has been modified to provide an adjustable blower shut-down time delay.

Appendix "A" lists the missing and defective components. In the course of rehabilitation and check-out, further unservicable components may be found.

RECOMMENDATIONS

TMC recommends that the basic rehabilitation of the transmitter be accomplished as outlined in Appendix "B"

$ _____

TMC recommends that the following modifications be made to upgrade the transmitter to the level of the latest production run of this model transmitter.

KIT 161 (Adds directional coupler, incident/reflected power meter and VSWR overload protection for 50 ohm operation)

$ _____

KIT 187 (Improves power output level stability of IPA)

$ _____

KIT 213 (RF suppressors for plate and grid RF meters in PA)

$ _____

KIT 245 (Provides protection for personnel against electrical shock)

$ _____

KIT 257 (Provides solid-state HV rectifiers in place of 872A tubes)

$ _____

KIT 284 (Eliminates shock hazard from HV warning lamp socket)

$ _____

KIT 333B (Provides solid-state synthesized exciter MMX-2B)

$ _____

MISSING PARTS

1. ALL EXCITER COMPONENTS
2. HV RECTIFIER TUBES
3. IPA OUTPUT SPRING CONTACT
4. FEED-THRU INSULATORS E706-708
5. HV CHOKE L800
6. VACUUM CAPACITOR C909
7. VACUUM CAPACITOR C929
8. MOUNTING CLAMPS FOR C929
9. ANTENNA FEED-THRU BOWLS
10. COVER ON AUXILIARY BAY CIRCUIT BREAKER

PARTS REQUIRING REPLACEMENT AND/OR REPAIR

1. OUTPUT LOADING LEAD SCREW
2. AC INPUT FILTERS BADLY BURNED
3. CAPACITOR C700
4. PLATE HOUR METER
5. PA BANDSWITCH FIXED CONTACTS
6. AIR SEALS ON PA GRID COMPARTMENT
7. RESISTORS R802/R809
8. HV CONTACTOR CONTACTS
9. CAPACITOR C2020
10. COIL L219
11. IPA BANDSWITCH KNOB
12. BROKEN WINDOW IN PA COMPARTMENT
13. METER COMPARTMENT LAMPS
14. PA COMPARTMENT LAMPS
15. IPA TUBE TV100
16. PA TUBE 4CX5000A

BASIC WORK TO BE PERFORMED

1. Due to the nature and extent of the oily residue in the transmitter, proper cleaning can only be accomplished by disassembly. TMC will disassemble to the extent required. At this point, an asessment can be made of any damage to the cable harnesses.
2. Cleaning of the IPA and PA RF inductors (and other plated hardware) will be attempted. If cleaning will not restore the proper finish, all coils and hardware will be replated.
3. All PA tank coil fixed switch contacts will be replaced and the movable contact refinished.
4. All plastic cable clamps will be replaced.
5. All cable harnesses will be cleaned and repaired.
6. All missing and/or defective parts and hardware will be furnished and installed.
7. The owner installed modifications to the HV interlock system, HV control system, HV shorting system and PA blower circuit will be retained. Wiring to these modifications will be replaced in accordance with good engineering practices.
8. All corroded hardware will be cleaned if possible. If not, it will be replaced.
9. All cabinet trim will be removed and straightened.
10. The cabinet and trim will be refinished and repainted.
11. Drawings will be prepared and provided showing the owner installed modifications enumerated above.
12. The transmitter will be tested to meet the same requirements as a new production item.

DISBURSEMENT SHEET

W/O#

MODEL GPT-10KAD

UNIT

S/O#

B/M# P/O B/M#

QTY.

TMC S/N 450
PRESS WIRELESS S/N 2908

FIL TIME 55822
PLATE TIME (MTR US)

DATE

REQ. #

PAGE OF

DELIVER TO:

BY

ITEM #	PART NUMBER	QTY. PER.	QTY. REQ.	QTY. ISSUED	QTY. SHORT	NOTES
1	LAMP BI-106-1	1				
2	HOUSING AX-124	1				
3	CONTACT AX-154	1				
4	CAPACITOR CE63C500G	1				
5	FEEDTHRU TE-175	3				
6	METER MR-125-2	1				
7	INSULATOR AX-159	2				
8	CONTACT ASSY AX-129	5				
9	CONTACT ASSY AX-128	4				
10	CHOKE TF-200	1				
11	RESISTOR RW-118-F-183	8				
12	SOLENOID SZ-100	1				
13	CONTACTS AX-176	6 SET				
14	CAPACITOR CO-102-3	1				
15	CAPACITOR CO-104-2	1				
16	COIL CL-173	1				
17	TUBE 4CX5000A	1				
18	TUBE 6CL6	1				

DISBURSEMENT SHEET

W/O#		DATE
MODEL		REQ. #
UNIT		PAGE OF
S/O#		
B/M# P/O B/M#		
QTY.		
DELIVER TO:		BY

ITEM #	PART NUMBER	QTY. PER.	QTY. REQ.	QTY. ISSUED	QTY. SHORT	NOTES
19	TUBE 6146	1				
20	TUBE TV-100	1				
21	WINDOW PA COMPARTMENT	1				
22	COVER MS-4425A	1				
23	LAMP BI-105-1	4				
24	LAMP BI-107	3				
25	KIT 187	1				
26	KIT 213	1				
27	KIT 161	1				
28	KIT 245	1				
29	KIT 257	1				
30	KIT 284	1				
31	KIT 233B	1				
32	LINE FILTER	3				