

EQUIPMENT TEST LIST
RINGING AND TONE POWER PLANTS
POWER SYSTEMS EQUIPMENT

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1. GENERAL

1.01 This section provides an index and information access system to locate the standard tests applicable to equipment listed in the preceding table of contents. Test classification and frequency of periodic routine are also provided.

1.02 This Equipment Test List (ETL) is reissued to incorporate changes which are indicated by an arrow to the left of each line which has been changed.

1.03 Comments on this section should be made by following the instructions in Bell System Practices (BSP), Section 000-010-015.

1.04 Routine test information is arranged in the following order from left to right: Section number, issue/addendum, test letter or paragraph number, test title, test class, frequency, and the last space is for a locally assigned job number.

1.05 Section 010-300-011 provides Equipment Test List instructions.

23.0 RING, TONE PWRPLT

23.1 RING, TONE PWRPLT; J29179A-50(W5A XB)

FOR ALL UNITS

167-789-301 (1/1)	4.06	CHECK TONE GENERATOR OUTPUT	MW 12M	-----
	4.07	CHECK TONE LOW VOLTAGE MONITORS	MW 12M	-----
	4.08	CHECK GENERATOR FAILURE TRANSFER	MW 12M	-----
	4.09	CHECK OUTPUT VOLTAGE OF RINGING DISTRIBUTION CIRCUIT	MW 12M	-----
	4.11	CHECK FUSE ALARMS	MW 12M	-----
	4.12	CHECK CALIBRATION OF RINGING VOLTS VOLTMETER	MW 12M	-----

23.2 RING, TONE PWRPLT; 801E (J86458)

FOR ALL UNITS

167-721-301 (2/0)	3.01	TEST RUN G2 MACHINE	MW M	-----
	3.02	(A) CHECK POWER SUPPLY FAILURE ALARM	MW 12M	-----
	3.02	(B) CHECK RINGING FAILURE ALARM	MW 12M	-----
	3.02	(C) RESTORE PLANT TO NORMAL	MW 12M	-----
	3.02	(D) CHECK FUSE ALARMS	MW 12M	-----

23.3 RING, TONE PWRPLT; 803C (J86555)

FOR ALL UNITS

167-721-311 (4/1)	4.03	CHECK FUSES AND TEST FUSE FAILURE ALARM	MW 12M	-----
	4.04	LOW VOLTAGE FAILURE	MW 6M	-----
	4.05	HIGH VOLTAGE FAILURE	MW 6M	-----
	4.06	COLLECTOR RING BRUSH FAILURE	MW 6M	-----
	4.09	GD LAMP	MW 6M	-----
	4.10	TRNSA & RINGMZ FUSES	MW 6M	-----
	4.11	TEST RINGING CIRCUIT INTERRUPTING AND DISTRIBUTING EQUIPMENT FUSES	MW 12M	-----
	4.23	TEST HOWLER EQUIPMENT ALARMS	MW 12M	-----
	4.24	TEST DIAL TONE ALARM AND TRANSFER	MW 6M	-----
	4.25	TEST LOW-VOLTAGE ALARM	MW 12M	-----
	4.26	TEST LOW-VOLTAGE ALARM AND TRANSFER	MW 6M	-----
	4.27	(4.27 - 4.30) TEST 135-HERTZ SUPPLY	MW 6M	-----
	4.36	TEST RINGING ALARM SUPPLY FUSES	MW 12M	-----
	4.37	CHARGE HV CAPACITOR	MW 18M	-----

◆ OPTIONAL FEATURES, SELECT NO MORE THAN ONE CATEGORY

◆ SD-80655-01 COIN

167-721-311 (4/1)	4.12	(4.12 - 4.15) SD-80655-01	MW 6M	-----
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◆ SD-80655-02 COIN SUPPLY

167-721-311 (4/1)	4.16	(4.16 - 4.17) SD-80655-02	MW 6M	-----
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◆ OPTIONAL FEATURES

◆ BK RELAY

167-721-311 (4/1)	4.07	NO VOLTAGE ALARM TRANSFER	MW 6M	-----
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TR1/ALT FLD1 FUSES					
167-721-311	(4/1)	4.08	TRANSFER ON FAILURE OF TR1 OR ALT FLD 1 FUSE	MW 6M	-----
SD-80598-02 TRIPPING SUPPLY					
167-721-311	(4/1)	4.19	(SD-80598-02) CHECK TRIPPING SUPPLY	MW 6M	-----
		4.20	CHECK TRIPPING SUPPLY ALARM TERMINAL	MW 6M	-----
		4.21	(J86423) CHECK TRIPPING SUPPLY	MW 6M	-----
		4.22	(J86807) CHECK TRIPPING SUPPLY	MW 6M	-----
#5 XB OFFICE					
167-721-311	(4/1)	4.35	TEST CODE RINGING APPLIQUE (NO. 5 CROSSBAR ONLY)	MW 12M	-----
#5 XB OFFICE WITH SUPERIMPOSED RINGING					
167-721-311	(4/1)	4.34	SUPERIMPOSED RINGING	MW 12M	-----
TROUBLE TESTS					
167-721-311	(4/1)	4.31	(4.31 - 4.33) AC/DC RINGING	TT	-----
23.4 RING, TONE PWRPLT; 804C (J86451)					
FOR ALL UNITS					
167-722-311	(6/1)	4.01	CHECK VENTILATING PASSAGES	MW 12M	-----
		4.02	CHECK ACCURACY OF POWER PLANT METERS	MW 12M	-----
		4.03	AC INPUT VOLTAGE CHECK FOR G1 LINE SET	MW W	-----
		4.04	CHECK G1 LINE SET OUTPUT VOLTAGE CHECK	MW W	-----
		4.05	CHECK G2 BATTERY SET OUTPUT VOLTAGE	MW W	-----
		4.06	CHECK G2 BATTERY SET FREQUENCY	MW 6M	-----
		4.07	RECTIFIER COIN CONTROL VOLTAGE CHECK	MW 6M	-----
		4.08	BATTERY COIN CONTROL VOLTAGE CHECK	MW 6M	-----
		4.09	SUPERIMPOSING BATTERY CHECK	MW 3M	-----
		4.10	TRIPPING BATTERY CHECK	MW 3M	-----
		4.11	AUTOMATIC TRANSFER DUE TO AC POWER FAILURE	MW 6M	-----
		4.12	AUTOMATIC TRANSFER DUE TO LOW OR HIGH RINGING VOLTAGE	MW 6M	-----
		4.13	AUTOMATIC TRANSFER DUE TO TONE FAILURE	MW 6M	-----
		4.14	POWER FAILURE TRANSFER (COIN CONTROL RECTIFIERS)	MW 6M	-----
		4.15	TONE CHECK	MW 6M	-----
		4.16	HOWLER CHECK	MW 6M	-----
		4.17	SUPERIMPOSING BATTERY ALARMS (SUP NV) CHECK	MW 12M	-----
		4.18	TRIPPING BATTERY ALARM (TNV) CHECK	MW 12M	-----
		4.19	CHECK 70-TYPE FUSE ALARMS	MW 12M	-----
		4.20	CHECK 35-TYPE FUSE ALARMS	MW 12M	-----
		4.21	CHECK AUTO TRANSFER DUE TO GEAR FAILURE	MW 6M	-----
23.5 RING, TONE PWRPLT; 804D (J86477A)					
FOR ALL UNITS					
167-722-316	(2/0)	4.01	CHECK OUTPUT VOLTAGE	MW 12M	-----

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167-722-316 (2/0)	4.02	CHECK FUSE ALARMS	MW 12M	-----
	4.03	CHECK NO VOLTAGE ALARM	MW 12M	-----
	4.04	CHECK POWER AUDIBLE ALARM	MW 12M	-----
	4.05	OPERATE RINGING MACHINE	MW 12M	-----
23.6 RING,TONE PWRPLT; 805C (J86428A)				
FOR ALL UNITS				
167-723-311 (4/0)	4.01	TRANSFER LOAD	MW W	-----
	4.02	CHECK OUTPUT VOLTAGE ON G1 AND G2 RINGING MACHINES	MW W	-----
	4.03	TEST AUTOMATIC TRANSFER DUE TO LOW RINGING VOLTAGE	MW 6M	-----
	4.04	TEST AUTOMATIC TRANSFER DUE TO HIGH RINGING VOLTAGE	MW 6M	-----
	4.05	TEST AUTOMATIC TRANSFER DUE TO TONE FAILURE	MW 6M	-----
	4.06	TEST AUTOMATIC TRANSFER DUE TO INTERRUPTER GEAR FAILURE	MW 6M	-----
	4.07	CHECK SUPERIMPOSING BATTERIES	MW 3M	-----
	4.08	CHECK TRIPPING BATTERY	MW 3M	-----
	4.09	CHECK FUSE ALARMS	MW 12M	-----
	4.10	CHECK LOW AND HIGH TONES	MW 6M	-----
	4.11	CHECK 104B FREQUENCY CONVERTER	MW 6M	-----
	4.12	CHECK 105A FREQUENCY CONVERTER	MW 6M	-----
23.7 RING,TONE PWRPLT; 805C (J86428B)				
FOR ALL UNITS				
167-723-316 (3/0)	4.02	CHECK OUTPUT VOLTAGE	MW W	-----
	4.03	BOOST CHARGE + 130 VOLT STORAGE BATTERY	MW 3M	-----
	5.01	CHECK WATER LEVEL & GENERAL CONDITION OF COUNTERCELLS	MW 3M	-----
	5.02	CHECK DRY CELLS	MW 6M	-----
	5.03	(5.03 - 5.06) TEST ALARMS	MW 12M	-----
23.8 RING,TONE PWRPLT; 806D (J86596)				
FOR ALL UNITS				
167-255-301 (7/0)	4.01	TRANSFER LOAD	MW W	-----
	4.02	CHECK PLANT ALARMS AND TRANSFER CIRCUITS	MW 6M	-----
	4.03	CHECK AND SWITCH BATTERIES	MW 3M	-----
	4.04	CHECK RINGING MACHINES	MW 6M	-----
	4.05	CHECK LOW AND HIGH TONES	MW 6M	-----
23.9 RING,TONE PWRPLT; 806E (J86445)				
FOR ALL UNITS				
167-724-321 (4/0)	4.01	START AND STOP INVERTER	MW 3M	-----
	4.02	START AND STOP INTERRUPTER	MW 3M	-----
	4.03	CHECK MS1 RELAY	MW 12M	-----
	4.04	CHECK TRIPPING BATTERIES	MW 6M	-----

167-724-321 (4/0)	4.06	TEST ALARMS	MW 12M	-----
	4.07	REPLACE 313C ELECTRON TUBE	MW 24M	-----
23.10 RING,TONE PWRPLT; 806F (J86456)				
FOR ALL UNITS				
167-724-326 (5/0)	4.03	CHECK AUTOMATIC TRANSFER DUE TO POWER FAILURE	MW 3M	-----
	4.04	START AND STOP INVERTER	MW 3M	-----
	4.05	START AND STOP INTERRUPTER	MW 3M	-----
	4.06	CHECK INTERRUPTER TRANSFER	MW 6M	-----
	4.07	CHECK INTERRUPTERS-AUXILIARY AND SPARE * CHECK START AND STOP	MW 3M	-----
	4.07	CHECK INTERRUPTERS-AUXILIARY AND SPARE * CHECK TRANSFER	MW 6M	-----
	4.08	CHECK RINGING GENERATORS * CHECK START AND STOP	MW 3M	-----
	4.08	CHECK RINGING GENERATORS * CHECK TRANSFER	MW 6M	-----
	4.09	CHECK TONE GENERATORS * CHECK START AND STOP	MW 3M	-----
	4.09	CHECK TONE GENERATORS * CHECK TRANSFER	MW 6M	-----
	4.10	CHECK TRIPPING AND SUPERIMPOSING BATTERY	MW 6M	-----
	4.11	CHECK DIAL TRANSFER	MW 6M	-----
	4.12	CHECK FUSE ALARMS	MW 12M	-----
	4.14	CHECK 105-VOLT OUTPUT ALARM	MW 12M	-----
	4.15	TEST MS1 RELAY OPERATION	MW 3M	-----
	4.16	REPLACE 313C ELECTRON TUBE	MW 24M	-----
OPTIONAL FEATURES				
WITH N/V ALARMS				
167-724-326 (5/0)	4.13	CHECK NV ALARMS (IF PROVIDED)	MW 12M	-----
23.11 RING,TONE PWRPLT; 806H (J86815A)				
FOR ALL UNITS				
167-724-331 (8/0)	4.01	CLEAN VENTILATING PASSAGES	MW 6M	-----
	4.02	CHECK RELAYS, INTERRUPTERS AND ASSOCIATED EQUIPMENT	MW 12M	-----
	4.04	AMPLIFIER DC BALANCE CHECKS	MW 6M	-----
	4.05	AMPLIFIER TONE VOLTAGE CHECKS	MW 12M	-----
	4.06	LOW-VOLTAGE MONITOR CHECKS	MW 6M	-----
	4.07	HIGH-VOLTAGE MONITOR CHECKS	MW 6M	-----
	4.08	RINGING GENERATOR MONITOR CHECKS (SUPERIMPOSED OFFICES)	FW 6M	-----
	4.09	RINGING GENERATOR MONITOR CHECKS (AC-DC OFFICES)	MW 6M	-----
	4.10	PULSING SIGNAL OUTPUT CHECK (RECEIVER-OFF-HOOK GENERATOR)	MW 6M	-----
	4.11	TONE SIGNAL ALARM CHECK (RECEIVER-OFF-HOOK GENERATOR)	MW 6M	-----
	4.12	OUTPUT FILTER VOLTAGE CHECKS	MW 6M	-----
	4.13	HIGH AND LOW VOLTAGE CONTROL RELAY CHECKS	MW 6M	-----

167-724-331 (8/0)	4.14	AMPLIFIER VOLTAGE CHECK (2600-HZ TONE GENERATOR)	MW 12M	-----
	4.15	LOW-VOLTAGE MONITOR CHECKS (2600-HZ TONE GENERATOR)	MW 6M	-----
	4.16	INTERRUPTER CHECKS	MW 6M	-----
	4.17	TONE DISTRIBUTION VOLTAGE CHECK	MW 6M	-----
	4.18	DISTRIBUTION CIRCUIT CHECKS	MW 6M	-----
	4.19	GROUND CROSS-DETECTION CHECKS	MW 6M	-----
	4.20	TRANSFER AND ALARM CHECKS	MW 6M	-----
	4.21	FUSE ALARM CHECKS	MW 6M	-----

23.12 RING, TONE PWRPLT; 806H (J86815B)

FOR ALL UNITS

167-724-331 (8/0)	4.01	CLEAN VENTILATING PASSAGES	MW 6M	-----
	4.02	CHECK RELAYS, INTERRUPTERS AND ASSOCIATED EQUIPMENT	MW 12M	-----
	4.04	AMPLIFIER DC BALANCE CHECKS	MW 6M	-----
	4.05	AMPLIFIER TONE VOLTAGE CHECK	MW 12M	-----
	4.06	LOW-VOLTAGE MONITOR CHECK	MW 6M	-----
	4.07	HIGH-VOLTAGE MONITOR CHECK	MW 6M	-----
	4.08	RINGING GENERATOR MONITOR CHECKS (SUPERIMPOSED OFFICES)	MW 6M	-----
	4.09	RINGING GENERATOR MONITOR CHECKS (AC-DC OFFICES)	MW 6M	-----
	4.10	PULSING SIGNAL OUTPUT CHECK (RECEIVER-OFF-HOOK GENERATOR)	MW 6M	-----
	4.11	TONE SIGNAL ALARM CHECK (RECEIVER-OFF-HOOK GENERATOR)	MW 6M	-----
	4.12	OUTPUT FILTER VOLTAGE CHECK	MW 6M	-----
	4.13	HIGH AND LOW-VOLTAGE CONTROL RELAY CHECKS	MW 6M	-----
	4.14	AMPLIFIER VOLTAGE CHECK (2600-HZ TONE GENERATOR)	MW 12M	-----
	4.15	LOW-VOLTAGE MONITOR CHECKS (2600-HZ TONE GENERATOR)	MW 6M	-----
	4.16	INTERRUPTER CHECKS	MW 6M	-----
	4.17	TONE DISTRIBUTION VOLTAGE CHECKS	MW 6M	-----
	4.18	DISTRIBUTION CIRCUIT CHECKS	MW 6M	-----
	4.19	GROUND CROSS-DETECTION CHECKS	MW 6M	-----
	4.20	TRANSFER AND ALARM CHECKS	MW 6M	-----
	4.21	FUSE ALARM CHECKS	MW 6M	-----

23.13 RING, TONE PWRPLT; 807B (J86816A)

FOR ALL UNITS

167-725-306 (4/0)	4.02	CHECK OUTPUT VOLTAGES AND FREQUENCIES	MW 6M	-----
	4.05	(1-6) CHECK VOLTAGE REGULATOR 1	MW 6M	-----
	4.05	(15-33) CHECK VOLTAGE MONITOR 1	MW 6M	-----
	4.05	(34-35) CHECK TONE GENERATOR 2, VOLTAGE REGULATOR 2, AN VOLTAGE MONITOR 2	MW 6M	-----

◆	167-725-306 (4/0)	4.05	(36-37) CHECK FA ALARM	MW 6M	-----
◆		4.05	(38-45) CHECK HLVM, HLV1, HLV2, HLF1, AND HLF2 ALARMS ASSOCIATED WITH GEN 1	MW 6M	-----
◆		4.05	(46-50) CHECK HLVM, HLV1, HLV2, HLF1, AND KLF2 ALARMS ASSOCIATED WITH GEN 2	MW 6M	-----
◆		4.05	(51-53) CHECK GENERATOR FAILURE TRANSFER CIRCUIT	MW 6M	-----
◆		4.05	(54-56) CHECK INTERRUPTER FAILURE TRANSFER CIRCUIT	MW 6M	-----
◆		4.05	(7-14) CHECK TONE GENERATOR 1	MW 6M	-----
	23.14 RING,TONE PWRPLT; 807C (J86817A)				
	FOR ALL UNITS				
	167-725-311 (4/0)	4.01	CHECK OUTPUT VOLTAGES AND FREQUENCIES	MW 6M	-----
		4.03	CHECK ALARMS	MW 12M	-----
		4.04	CHECK GENERATOR FAILURE TRANSFER CIRCUIT	MW 6M	-----
	23.15 RING,TONE PWRPLT; 807D (J86829)				
	FOR ALL UNITS				
	167-725-315 (6/0)	4.01	CHECK VOLTAGES	MW 6M	-----
◆		4.03	CHECK FUSE ALARMS	MW 12M	-----
◆		4.04	CHECK LV ALARM (ASSOCIATED WITH MON1)	MW 12M	-----
◆		4.05	CHECK HV ALARM (ASSOCIATED WITH MON1)	MW 12M	-----
◆		4.06	CHECK LV ALARM (ASSOCIATED WITH MON2)	MW 12M	-----
◆		4.07	CHECK HV ALARM (ASSOCIATED WITH MON2)	MW 12M	-----
◆		4.08	CHECK SURVEILLANCE & CONTROL CENTER ALARM CIRCUIT	MW 12M	-----
		4.09	CHECK GENERATOR FAILURE TRANSFER CIRCUIT	MW 6M	-----
		4.10	CHECK 35VA AMPLIFIER FAILURE TRANSFER CIRCUIT	MW 6M	-----
◆	OPTIONAL FEATURES				
◆	STEP-BY-STEP OFFICES				
◆	167-725-315 (6/0)	4.11	CHECK "TOUCH-TONE" DIAL-TONE	MW 12M	-----
	23.16 RING,TONE PWRPLT; 807E (J86839A)				
	FOR ALL UNITS				
	167-725-316 (3/0)	4.04	CHECK AUDIBLE RINGING OSCILLATOR	MW 12M	-----
		4.05	CHECK HIGH TONE OSCILLATOR	MW 12M	-----
		4.06	CHECK LOW TONE OSCILLATOR	MW 12M	-----
		4.08	CHECK AMPLIFIER DC BALANCE	MW 12M	-----
		4.09	CHECK AMPLIFIER TONE VOLTAGE	MW 12M	-----
		4.10	LOW-VOLTAGE TONE MONITOR CHECKS	MW 12M	-----
		4.11	HIGH-VOLTAGE TONE MONITOR CHECKS	MW 12M	-----
		4.12	TRANSFER ALARM CHECK	MW 12M	-----
		4.13	CHECK FUSE ALARM	MW 12M	-----
◆		4.14	(4.14 - 4.15) INTERRUPTER AND INTERRUPTER MONITOR CHECKS	MW 12M	-----
		4.16	CHECK TONE DISTRIBUTION VOLTAGE	MW 12M	-----

167-725-316 (3/0)	4.17	CHECK GROUND CROSS-DETECTION RELAYS	MW 12M	-----
23.17 RING,TONE PWRPLT; 807F (J87813)				
FOR ALL UNITS				
167-725-317 (3/0)	4.04	CLEAN VENTILATING PASSAGES	MW 12M	-----
	4.05	INPUT VOLTAGE CHECK	MW 6M	-----
	4.08	AMPLIFIER CHECKS	MW 12M	-----
	4.09	TONE LOW-VOLTAGE MONITORS ADJMT-CPA751	MW 12M	-----
	4.10	CHECK TONE OSCILLATOR CPA747 & CPA748 (GEN1)	MW 12M	-----
	4.11	CHECK TONE OSCILLATOR CPA747 & CPA748 (GEN2)	MW 12M	-----
	4.12	CHECK TONE OSCILLATOR ADJMT CPA1151 & CPA1152 (GEN1)	MW 12M	-----
	4.13	CHECK TONE OSCILLATOR ADJMT CPA1151 & CPA1152 (GEN2)	MW 12M	-----
OPTIONAL FEATURES, SELECT NO MORE THAN ONE CATEGORY				
XBAR OR PANEL OFFICE				
167-725-317 (3/0)	4.06	TRANSFER AND ALARM CHECK	MW 6M	-----
SXS OFFICE				
167-725-317 (3/0)	4.07	TRANSFER AND ALARM CHECKS	MW 6M	-----
23.18 RING,TONE PWRPLT; 807G (J87814)				
FOR ALL UNITS				
167-725-318 (4/0)	4.02	CHECK TONE OSCILLATOR ADJMT	MW 6M	-----
	4.03	CHECK TONE LOW-VOLTAGE MONITOR ADJMT	MW 6M	-----
	4.04	CHECK 1-VA AMPLIFIER ADJMT	MW 6M	-----
	4.05	CHECK FUSE ALARM	MW 12M	-----
	4.06	CHECK INTERRUPTED OUTPUT	MW 12M	-----
	4.07	CHECK ALARM SURVEILLANCE AND CONTROL INTERFACE CIRCUIT	MW 12M	-----
	4.08	CHECK GENERATOR FAILURE TRANSFER CIRCUIT	MW 12M	-----
23.19 RING,TONE PWRPLT; 808A (J86834A)				
FOR ALL UNITS				
167-726-102 (1/P)	002	CHECK SIDE 0 - 808A RINGING AND TONE PLANT	MW 12M	-----
	003	CHECK SIDE 1 - 808A RINGING AND TONE PLANT	MW 12M	-----
	004	TEST PLANT FUSE ALARMS	MW 12M	-----
	511	CHECK RECEIVER OFF HOOK (ROH) GENERATOR	MW 12M	-----
TROUBLE TESTS				
167-726-102 (1/P)	095	TROUBLE INDICATOR LIST - 808A RINGING AND TONE PLANT	TT	-----
23.20 RING,TONE PWRPLT; 812A (J87801A)				
FOR ALL UNITS				
167-727-107 (1/P)	002	CHECK "O" SIDE - 812A RINGING AND TONE PLANT	MW 12M	-----
	003	CHECK "1" SIDE - 812A RINGING AND TONE PLANT	MW 12M	-----
	004	TEST PLANT FUSE ALARMS	MW 12M	-----
	511	CHECK RECEIVER OFF HOOK (ROH) GENERATOR	MW 12M	-----

TROUBLE TESTS

167-727-107 (1/P)	095	TROUBLE INDICATOR LIST - 812A RINGING AND TONE PLANT	TT	-----
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23.21 RING, TONE PWRPLT; 812A (J87801B)

FOR ALL UNITS

167-727-107 (1/P)	002	CHECK "0" SIDE - 812A RINGING AND TONE PLANT	MW 12M	-----
	003	CHECK "1" SIDE - 812A RINGING AND TONE PLANT	MW 12M	-----
	004	TEST PLANT FUSE ALARMS	MW 12M	-----
	511	CHECK RECEIVER OFF HOOK (ROH) GENERATOR	MW 12M	-----

TROUBLE TESTS

167-727-107 (1/P)	095	TROUBLE INDICATOR LIST - 812A RINGING AND TONE PLANT	TT	-----
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23.22 RING, TONE PWRPLT; 841A (87804A)

FOR ALL UNITS

▶	167-732-301 (6/0)	4.02	TEST "0" SIDE PLANT OSCILLATORS	MW 12M	-----
▶		4.07	CHECK ROH GENERATOR PULSING SIGNAL OUTPUT	MW 12M	-----
▶		4.08	CHECK ROH GENERATOR TONE SIGNAL ALARM	MW 12M	-----
▶		4.09	TEST "1" SIDE PLANT OSCILLATORS	MW 12M	-----
▶		4.14	CHECK INTERRUPTER FOLLOW RELAY	MW 12M	-----
▶		4.15	CHECK DISTRIBUTION CIRCUIT	MW 12M	-----
▶		4.16	CHECK BATTERY DISTRIBUTION FUSE ALARM	MW 12M	-----
▶		4.17	CHECK RINGING DISTRIBUTION FUSE ALARM	MW 12M	-----

OPTIONAL FEATURES

SUPERIMPOSED OFFICES

▶	167-732-301 (6/0)	4.06	CHECK RINGING GENERATOR PF0 MONITOR	MW 12M	-----
▶		4.13	CHECK RINGING GENERATOR PF1 MONITOR	MW 12M	-----

TROUBLE TESTS

▶	167-732-301 (6/0)	4.03	TEST & ADJMT "0" SIDE PLANT TONE OSCILLATORS CPA1151 - CPA1154	TT	-----
▶		4.04	TEST & ADJMT "0" SIDE PLANT AMPLIFIERS 264A OR 264B	TT	-----
▶		4.05	CHECK "0" SIDE PLANT TONE MONITOR A751 OR A751B	TT	-----
▶		4.10	TEST & ADJMT "1" SIDE PLANT TONE OSCILLATORS CPA1151 - CPA 1154	TT	-----
▶		4.11	TEST & ADJMT "1" SIDE PLANT AMPLIFIERS 264A OR 264B	TT	-----
▶		4.12	CHECK "1" SIDE PLANT TONE MONITOR A751 OR A751B	TT	-----

23.23 RING, TONE PWRPLT; 841A (J87804B)

FOR ALL UNITS

▶	167-732-301 (6/0)	4.02	TEST "0" SIDE PLANT OSCILLATORS	MW 12M	-----
▶		4.07	CHECK ROH GENERATOR PULSING SIGNAL OUTPUT	MW 12M	-----
▶		4.08	CHECK ROH GENERATOR TONE SIGNAL ALARM	MW 12M	-----
▶		4.09	TEST "1" SIDE PLANT OSCILLATORS	MW 12M	-----

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◆	167-732-301 (6/0)	4.14	CHECK INTERRUPTER FOLLOW RELAY	MW 12M	-----
◆		4.15	CHECK DISTRIBUTION CIRCUIT	MW 12M	-----
◆		4.16	CHECK BATTERY DISTRIBUTION FUSE ALARM	MW 12M	-----
◆		4.17	CHECK RINGING DISTRIBUTION FUSE ALARM	MW 12M	-----

OPTIONAL FEATURES

SUPERIMPOSED OFFICES

◆	167-732-301 (6/0)	4.06	CHECK RINGING GENERATOR PFO MONITOR	MW 12M	-----
◆		4.13	CHECK RINGING GENERATOR PF1 MONITOR	MW 12M	-----

TROUBLE TESTS

◆	167-732-301 (6/0)	4.03	TEST & ADJMT "0" SIDE PLANT TONE OSCILLATORS CPA1151 - CPA1154	TT	-----
◆		4.04	TEST & ADJMT "0" SIDE PLANT AMPLIFIERS 264A OR 264B	TT	-----
◆		4.05	CHECK "0" SIDE PLANT TONE MONITOR A751 OR A751B	TT	-----
◆		4.10	TEST & ADJMT "1" SIDE PLANT TONE OSCILLATORS CPA1151 - CPA1154	TT	-----
◆		4.11	TEST & ADJMT "1" SIDE PLANT AMPLIFIERS 264A OR 264B	TT	-----
◆		4.12	CHECK "1" SIDE PLANT TONE MONITOR A751 OR A751B	TT	-----

◆ 23.24 RING, TONE PWRPLT; 852A (J87807A & J87807B)

FOR ALL UNITS

	167-733-301 (5/0)	4.05	CHECK TONE GENERATOR OUTPUT	MW 12M	-----
		4.06	(A) CHECK LVTT, LVBT, AND LVAR TONE LOW-VOLTAGE MONITORS	MW 12M	-----
		4.06	(B) CHECK LVHT TONE LOW-VOLTAGE MONITOR	MW 12M	-----
		4.07	CHECK OPERATION OF TRANSFER RELAYS	MW 12M	-----
		4.08	CHECK OUTPUT VOLTAGE OF RINGING-DISTRIBUTION CIRCUIT	MW 12M	-----
		4.10	CHECK FUSE ALARMS	MW 12M	-----
		4.11	CHECK DC-AC INVERTER INPUT AND OUTPUT VOLTAGES	MW 12M	-----

TROUBLE TESTS

	167-733-301 (5/0)	5.02	ALARM LAMPS	TT	-----
		5.03	RINGING AND TONE GENERATORS	TT	-----
		5.04	INTERRUPTER MONITOR LAMP	TT	-----

◆ 23.25 RING, TONE PWRPLT; 853A (J87809A & J87809B)

FOR ALL UNITS

	167-734-301 (4/1)	4.01	CLEAN VENTILATING PASSAGES	MW 12M	-----
		4.02	CHECK RELAYS AND ASSOCIATED EQUIPMENT	MW 12M	-----
		4.03	DIAL TONE (TT) 1-VA AMPLIFIER CHECKS	MW 12M	-----
		4.04	AUDIBLE RINGING TONE (AR) 1-VA AMPLIFIER CHECKS	MW 12M	-----
		4.05	HIGH TONE (HT) 1-VA AMPLIFIER CHECKS	MW 12M	-----
		4.06	BUSY TONE (BT) 1-VA AMPLIFIER CHECKS	MW 12M	-----

167-734-301	(4/1)	4.07	AUDIBLE RINGING TONE (AR2) 10-VA AMPL CHECKS	MW 12M	-----
		4.08	DIAL TONE LOW-VOLTAGE MONITOR (LVTT) CHECKS	MW 12M	-----
		4.09	AUDIBLE RINGING TONE LOW-VOLTAGE MONITOR (LVAR) CHECKS	MW 12M	-----
		4.10	BUSY TONE LOW-VOLTAGE MONITOR (LVBT) CHECKS	MW 12M	-----
		4.11	HIGH TONE LOW-VOLTAGE MONITOR (LVHT) CHECKS	MW 12M	-----
		4.12	POWER FAILURE MONITOR (PF1 AND PF2) CHECKS	MW 12M	-----
		4.13	BATTERY DISTRIBUTION FUSE ALARM CHECKS	MW 12M	-----
		4.14	POWER RING & TONE DISTRIB FUSE ALARM CHECKS	MW 12M	-----
		4.15	INVERTER J87266E INPUT AND OUTPUT VOLTAGE CHECKS	MW 6M	-----
23.26 RING,TONE PWRPLT; 856A (J87820)					
FOR ALL UNITS					
167-728-301	(3/0)	4.05	CHECK TONE GENERATOR OUTPUT	MW 3M	-----
		4.06	(A) CHECK LVTT, LVBT AND LVAR TONE	MW 6M	-----
		4.06	(B) CHECK LVHT TONE LOW-VOLTAGE MONITOR	MW 6M	-----
		4.07	CHECK GENERATOR FAILURE TRANSFER	MW 6M	-----
		4.09	CHECK FUSE ALARMS	MW 12M	-----
23.27 RING,TONE PWRPLT; 857A (J87821)					
FOR ALL UNITS					
167-729-301	(2/0)	4.05	CHECK TONE GENERATOR OUTPUT	MW 3M	-----
		4.06	(A) CHECK LVTT, LVBT AND LVAR TONE LOW-VOLTAGE MONITORS	MW 6M	-----
		4.06	(B) CHECK LVHT TONE LOW-VOLTAGE MONITOR	MW 6M	-----
		4.07	CHECK GENERATOR FAILURE TRANSFER	MW 6M	-----
		4.09	CHECK FUSE ALARMS	MW 12M	-----
◆ 23.28 RING,TONE PWRPLT; 861A (J87812A & J87812B)					
FOR ALL UNITS					
167-731-301	(4/0)	4.01	INSPECT CONDITION OF RELAY CONTACTS (OR AS REQUIRED)	MW 12M	-----
		4.05	CHECK TONE GENERATOR OUTPUT VOLTAGE	MW 6M	-----
		4.06	CHECK TONE LOW-VOLTAGE MONITOR ADJMT	MW 6M	-----
		4.07	CHECK PLANT TRANSFER RELAY CKT	MW 6M	-----
		4.08	CHECK RINGING-DISTRIBUTION CKT OUTPUT VOLTAGE	MW 12M	-----
		4.10	CHECK FUSE ALARMS	MW 12M	-----
TROUBLE TESTS					
167-731-301	(4/0)	4.09	INTERRUPTION TIMING CKT OPRN	TT	-----
◆ 23.29 RING,TONE PWRPLT; 862A (J87810A & J87810B)					
FOR ALL UNITS					
◆ 167-735-301	(3/0)	4.05	CHECK TONE GENERATOR OUTPUT	MW 12M	-----
◆		4.06	CHECK TONE LOW-VOLTAGE MONITORS	MW 12M	-----
◆		4.07	CHECK PLANT TRANSFER RELAY	MW 12M	-----
◆		4.08	CHECK AMPLIFIER TRANSFER RELAY	MW 12M	-----

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◆	167-735-301	(3/0)	4.09	CHECK RINGING DISTRIBUTION OUTPUT VOLTAGE	MW 12M	-----
◆			4.11	CHECK FUSE ALARM	MW 12M	-----
◆	23.30 RING,TONE PWRPLT; 863A (J86881A & J86881B)					
	FOR ALL UNITS					
	167-736-301	(4/1)	4.01	INSPECT CONDITION OF RELAY CONTACTS (OR AS REQUIRED)	MW 12M	-----
			4.05	CHECK TONE GENERATOR OUTPUT	MW 12M	-----
			4.06	CHECK TONE LOW-VOLTAGE MONITORS	MW 12M	-----
			4.07	CHECK TRANSFER CIRCUIT OPRN	MW 12M	-----
			4.08	CHECK AMPLIFIER TRANSFER RELAY OPRN	MW 12M	-----
			4.11	CHECK FUSE ALARMS	MW 12M	-----
	TROUBLE TESTS					
	167-736-301	(4/1)	4.09	INTERRUPTION TIMING CKT OPRN	TT	-----
	23.31 RING,TONE PWRPLT; 871A (J87819A)					
	FOR ALL UNITS					
	167-730-301	(2/0)	4.03	CHECK ALARM, TRANSFER AND DISTRIBUTION CIRCUIT	MW 6M	-----
			4.04	CHECK PLANT OUTPUT VOLTAGE	MW 6M	-----
			4.05	CHECK PLANT INPUT VOLTAGE	MW 6M	-----
	23.32 RING,TONE PWRPLT; 872A (J87808)					
	FOR ALL UNITS					
	167-738-301	(2/0)	4.02	CONTACTOR AND RELAY INSPECTION	MW 6M	-----
◆			4.03	CHECK ALARM, TRANSFER, AND DISTRIBUTION CIRCUIT	MW 6M	-----
	23.33 RING,TONE PWRPLT; 873A (J86855)					
	FOR ALL UNITS					
◆	167-737-301	(3/0)	3.04	(3.04 - 3.06) TRANSFER AND RESTORE GENERATORS	MW 6M	-----
			4.04	CHECK CIRCUITS AND ALARMS	MW 12M	-----
	23.34 RING,TONE PWRPLT; J86212K					
	FOR ALL UNITS					
	167-743-301	(1/0)	4.04	CLEAN VENTILATING PASSAGES	MW 12M	-----
			4.05	CHECK LV RELAY ADJUSTMENT	MW 6M	-----
			4.06	CHECK POWER SERVICE LOW-VOLTAGE ADJUSTMENT	MW 6M	-----
			4.07	AUTOMATIC TRANSFER-POWER FAILURE	MW 6M	-----
			4.08	AUTOMATIC TRANSFER-POWER SERVICE LOW-VOLTAGE	MW 6M	-----
	23.35 RING,TONE PWRPLT; 806G (J86472)					
	FOR ALL UNITS					
	167-460-301	(5/0)	4.02	CHECK RING TRNS ALARM LAMP	MW 6M	-----
			4.03	CHECK GD ALARM LAMP	MW 6M	-----
			4.04	CHECK AUDIBLE RING AND TONES	MW 6M	-----
			4.05	CHECK FA ALARM	MW 12M	-----
	TROUBLE TESTS					

167-460-301 (5/0)	5.01	TROUBLE TEST CHART	TT	-----
23.36 RING, TONE PWRPLT; J29361A-1				
FOR ALL UNITS				
167-461-301 (1/0)	4.07	CHECK TONE GENERATOR OUTPUT	MW 6M	-----
	4.08	CHECK TONE LOW VOLTAGE MONITORS	MW 6M	-----
	4.09	CHECK GENERATOR FAILURE TRANSFER	MW 6M	-----
	4.10	CHECK OUTPUT VOLTAGE OF RINGING DISTRIBUTION CKT	MW 6M	-----
	4.11	CHECK INTERRUPTION TIMING	MW 6M	-----
	4.12	CHECK FUSE ALARMS	MW 6M	-----
	4.13	CHECK VOLTMETER ACCURACY	MW 6M	-----
23.37 RING, TONE PWRPLT; J86464A				
SELECT ONLY ONE CATEGORY				
WITH BATTERY RESERVE				
167-480-301 (5/1)	4.03	(A) CHECK J86281A RECTIFIER	MW 6M	-----
	4.03	(B) CHECK RINGING AND TONE GEN	MW 6M	-----
	4.03	(C) CHECK INTERRUPTER	MW 6M	-----
	4.03	(E) CHECK 20 HZ AND 60 HZ GEN VOLTAGE OUTPUT	MW 6M	-----
	4.03	(F) CHECK TRANSISTOR LOW-TONE GEN	MW 6M	-----
	4.03	(G) CHECK TRANSISTOR TRANSFER AND ALARM CKT	MW 6M	-----
	4.03	(H) CHECK FA1 FUSE ALARM	MW 12M	-----
	4.03	(I) CHECK 20 HZ AND 60 HZ TRNS ALARM	MW 12M	-----
	4.03	(J) CHECK REMOTE ALARM	MW 6M	-----
	4.03	(K) CHECK SPARE 20 HZ AND 60 HZ GEN	MW 12M	-----
WITHOUT BATTERY RESERVE				
167-480-301 (5/1)	4.01	(A) CHECK J86281A RECTIFIER	MW 6M	-----
	4.01	(B) CHECK RINGING AND TONE GENERATORS	MW 6M	-----
	4.01	(C) CHECK INTERRUPTER	MW 6M	-----
	4.01	(D) CHECK FA1 FUSE ALARM	MW 12M	-----
TROUBLE TESTS				
WITH BATTERY RESERVE				
167-480-301 (5/1)	5.01	TROUBLE TEST CHART	TT	-----
	5.04	TEST RECTIFIER OR INTERRUPTER	TT	-----
WITHOUT BATTERY RESERVE				
167-480-301 (5/1)	5.02	(A) TEST AUDIBLE RINGING	TT	-----
	5.02	(B) TEST RINGING AND TONE FREQ GENERATORS	TT	-----
	5.02	(C) TEST INTERRUPTER	TT	-----
23.38 RING, TONE PWRPLT; J86464B				
FOR ALL UNITS				
167-480-301 (5/1)	4.03	(A) CHECK J86281A RECTIFIER	MW 6M	-----
	4.03	(B) CHECK RINGING AND TONE GEN	MW 6M	-----

167-480-301 (5/1)	4.03	(C) CHECK KS-15984,L1 INTERRUPTER	MW 6M	-----
	4.03	(E) CHECK 20 HZ AND 60 HZ GEN VOLTAGE OUTPUT	MW 6M	-----
	4.03	(F) CHECK TRANSISTOR LOW-TONE GEN	MW 6M	-----
	4.03	(G) CHECK TRANSISTOR TRANSFER AND ALARM CKT	MW 6M	-----
	4.03	(H) CHECK FA1 FUSE ALARM	MW 12M	-----
	4.03	(I) CHECK 20 HZ AND 60 HZ TRNS GEN	MW 12M	-----
	4.03	(J) CHECK REMOTE ALARM	MW 6M	-----
	4.03	(K) CHECK SPARE 20 HZ AND 60 HZ GEN	MW 12M	-----

TROUBLE TESTS

167-480-301 (5/1)	5.01	TROUBLE TEST CHART	TT	-----
	5.05	PRINTED CKT NET TBL (A)	TT	-----
	5.05	PWR TRANSISTOR TBL (B)	TT	-----

23.39 RING,TONE PWRPLT; J86464L

FOR ALL UNITS

167-480-301 (5/1)	4.02	(A) CHECK J87205B,L1 RECTIFIER	MW 6M	-----
	4.02	(B) CHECK RINGING AND TONE GEN	MW 6M	-----
	4.02	(C) CHECK TOUCH-TONE DIAL TONE GENERATOR--404C	MW 6M	-----

TROUBLE TESTS

167-480-301 (5/1)	5.03	(A) RECTIFIER TEST	TT	-----
	5.03	(B) AC, DC AND RINGING SUP TBL	TT	-----
	5.03	TROUBLE TEST CHART	TT	-----

23.40 RING,TONE PWRPLT; J86464M

FOR ALL UNITS

167-480-301 (5/1)	4.04	(A) CHECK J87211A RECTIFIER	MW 6M	-----
	4.04	(B) CHECK RINGING AND TONE GEN	MW 6M	-----
	4.04	(C) CHECK TRANSISTOR 20 HZ GEN	MW 12M	-----
	4.04	(D) CHECK TRANSISTOR LOW-TONE GEN	MW 6M	-----
	4.04	(E) CHECK TOUCH-TONE DIAL TONE GEN--404C	MW 6M	-----
	4.04	(F) CHECK J87225 CONVERTER	MW 6M	-----
	4.04	(G) CHECK KS-15984,L1 INTERRUPTER	MW 6M	-----
	4.04	(I) CHECK FA1 FUSE ALARM	MW 12M	-----

TROUBLE TESTS

167-480-301 (5/1)	5.01	TROUBLE TEST CHART	TT	-----
	5.06	(A) RECTIFIER TEST	TT	-----
	5.06	(B) KS-15984,L1 INTERRUPTER TBL	TT	-----
	5.06	(C) CONVERTER TBL	TT	-----
	5.06	(D) PRINTED CKT NET TBL	TT	-----
	5.06	(E) PWR TRANSISTOR TBL	TT	-----

23.41 RING,TONE PWRPLT; J86808

FOR ALL UNITS

167-486-301 (3/0)	5.01	CHECK AUDIBLE RINGING AND TONES	MW 6M	-----
	5.02	CHECK RECTIFIERS	MW 6M	-----
	5.03	CHECK VOLTAGE AND RINGING SUPPLY FAILURE ALARM	MW 6M	-----
	5.04	CHECK 10-VOLT AC AND POSITIVE 48-VOLT DC SUPPLY FAILURE ALARMS	MW 6M	-----
	5.05	CHECK NEGATIVE 48-VOLT DC SUPPLY FAILURE ALARMS	MW 6M	-----
	5.06	CHECK RINGING SUP FAILURE ALARM	MW 6M	-----
TROUBLE TESTS				
167-486-301 (3/0)	6.02	AC LINE ALARM LAMP	TT	-----
	6.03	OUTPUT VOLTAGE SUPPLY FAILURE	TT	-----
	6.04	RINGING SUPPLY FAILURE	TT	-----
	6.05	IRREGULAR SIGNALING INTERRUPTIONS	TT	-----
	6.06	TONE SUPPLY FAILURE	TT	-----
	6.07	FUSE FAILURE ALARMS	TT	-----
23.42 RING, TONE PWRPLT; J86812A				
FOR ALL UNITS				
167-494-301 (2/0)	4.01	CHECK AUDIBLE RINGING AND TONES	MW 6M	-----
	4.02	CHECK RECTIFIER OUTPUT CURRENT	MW 3M	-----
	4.04	CHECK AC INPUT AND DC OUTPUT OF RECTIFIER AND PLANT	MW 3M	-----
23.43 RING, TONE PWRPLT; J86831A L1, L2				
FOR ALL UNITS				
167-489-301 (3/0)	4.01	CHECK AUDIBLE RINGING AND TONES	MW 6M	-----
	4.02	CHECK REMOTE ALARMS	MW 6M	-----
TROUBLE TESTS				
167-489-301 (3/0)	5.01	AC AND DC VOLTAGE SUPPLIES	TT	-----
	5.02	AC AND DC SUPPLY FUSES	TT	-----
	5.03	RINGING AND TONE CKT	TT	-----
	5.04	SIGNAL REMOTE FAILURE ALARM	TT	-----
23.44 RING, TONE PWRPLT; J86818				
FOR ALL UNITS				
167-488-301 (2/0)	4.01	CHECK AUDIBLE RINGING AND TONES	MW 6M	-----
	4.02	CHECK RECTIFIER OUTPUT CURRENT	MW 3M	-----
	4.05	CHECK RINGING AND 10-VOLT AC SUPPLY FAILURE ALARMS	MW 6M	-----
	4.06	CHECK NEGATIVE 48-VOLT DC SUPPLY FAILURE ALARM	MW 6M	-----
TROUBLE TESTS				
167-488-301 (2/0)	5.01	(5.01 - 5.02) AC LINE ALARM LAMP	TT	-----
	5.03	(A) 10-VOLT AC SUPPLY FAILURE	TT	-----
	5.03	(B) NEGATIVE 48-VOLT DC SUPPLY FAILURE	TT	-----
23.45 RING, TONE PWRPLT; J86828				

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FOR ALL UNITS

167-488-306 (1/0)	5.01	CHECK AUDIBLE RING AND TONES	MW 6M	-----
	5.02	CHECK RECTIFIER OUTPUT VOLTAGE	MW 6M	-----
	5.04	CHECK NEGATIVE 48-VOLT DC SUPPLY FAILURE	MW 6M	-----
	5.05	CHECK 10-VOLT SUPPLY FAILURE ALARM	MW 6M	-----
	5.06	CHECK RING SUPPLY FAILURE ALARM	MW 6M	-----
	5.07	CHECK RING BAT, INT MOTOR, AND HBV FUSE FAILURE ALARM	MW 6M	-----
	5.08	CHECK HV ALARM	MW 6M	-----

TROUBLE TESTS

167-488-306 (1/0)	6.01	(6.01 - 6.02) AC LINE ALARM LAMP	TT	-----
	6.03	NEGATIVE 48-VOLT DC SUPPLY FAILURE	TT	-----
	6.04	RINGING SUPPLY FAILURE	TT	-----
	6.05	SIGNALING INTERRUPTION FAILURE	TT	-----
	6.06	IRREGULAR SIGNALING INTERRUPTION	TT	-----
	6.07	HV ALARM CKT ADJ	TT	-----

23.46 RING, TONE PWRPLT; 820A (J87822)

FOR ALL UNITS

167-728-102 (2/S)	003	CHECK PLANT TONES - AR, BT, HT AND TPT	MW 12M	-----
	004	CHECK PLANT FUSE ALARMS	MW 12M	-----
	005	CHECK 820A PLANT CIRCUIT	MW 12M	-----
	500	CHECK J87337A INVERTER OUTPUT VOLTAGE AND FREQUENCY (GEN 0 AND GEN 1)	MW W	-----

23.47 RING, TONE PWRPLT; J86847 AUTOVON (AUTOMATIC VOICE NETWORK) PRECISE TONE PWR PLT

FOR ALL UNITS

167-775-301 (1/0)	4.01	CHECK OUTPUT VOLTAGES	MW 12M	-----
	4.03	(A) CHECK FA ALARM	MW 12M	-----
	4.03	(B) CHECK MONITOR 1 LV ALARM	MW 12M	-----
	4.03	(C) CHECK MONITOR 1 HV ALARM	MW 12M	-----
	4.03	(E) CHECK MONITOR 2 LV ALARM	MW 12M	-----
	4.03	(F) CHECK MONITOR 2 HV ALARM	MW 12M	-----

TROUBLE TESTS

167-775-301 (1/0)	5.02	ALARM TROUBLE INDICATIONS	TT	-----
	5.03	TROUBLE CHART	TT	-----