

RADIO RELAY SITE



SEP 22 1975

RESTORATION PLAN

To be kept at: Radio Relay Site



South Central Bell

State Toll Plant Svr.

DATE: July 14, 1986

TO: Radio Relay Site

FROM: OPERATIONS MANAGER -
TECHNICAL SUPPORT
534 ARMORY PLACE, 3-WEST
LOUISVILLE, KENTUCKY 40202

The attached information is being provided to update your copy of the
Radio Relay Site Restoration Plan for BEATTYVILLE R.
Call Sign KJA77.

Please make arrangements to place the updated information in your copy
of the plan kept at Radio Relay Site

and destroy each page or drawing that it replaces.

Should you find any errors or have questions, please contact W. L.
Beggs at 502-582-8490 or P. Briseno, Jr. at 502-582-8389.

NOTE: Remove and destroy cancelled items from the plan.

(See Note 4)

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RADIO RELAY SITE RESTORATION PLAN

FOR BEATTYVILLE R.

CALL SIGN KJA77

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Notes:

1. A bullet (●) indicates an item has been added or changed since the previous issue of the index.
2. A square (☐) indicates a canceled item. Remove and destroy canceled items from the plan. Information relating to the cancellation, if necessary, will be shown in a note following the item. Canceled items and related notes will be deleted upon reissue of the index.
3. "OC" is the abbreviation for Original Copy where an issue number was not provided.
4. This index sheet should be retained in the Restoration Plan folder until the next issue is received.

DESCRIPTION - BEATTYVILLE R.S.

The Beattyville, Kentucky Repeater Station is located 2.3 miles northeast of Beattyville, Kentucky on Kentucky Highway 11. The Station is located in Lee County near a paved highway. The access road is graveled and in good condition.

The surrounding area is rolling terrain covered with woods and under brush.

RADIO RELAY RESTORATION PLAN

Date 7-14-86

Station BEATTYVILLE R.

ITEM		INFORMATION			NOTE		
LOCATION		2.3 Mi. N. E. of Beattyville, Kentucky					
COORDINATES		LAT. 37° 36' 07" LONG. 83° 41' 29"					
PACKAGES REQUIRED		<input type="checkbox"/> -PLAN 1 (CHANS 1 TO 6) <input checked="" type="checkbox"/> -PLAN 2 (CHANS 7 TO 12)			1		
CONNECT BAYS		<input type="checkbox"/> A <input type="checkbox"/> B <input checked="" type="checkbox"/> A <input type="checkbox"/> B					
TOWER	EXISTING	ELEVATION 1077' AMSL	HEIGHT 201' AGL	TYPE			
	EMERGENCY	ELEVATION 1061'	HEIGHT 208'	SOURCE A.T.&T. Co.			
	OBS. LTG.	<input type="checkbox"/> -NONE <input checked="" type="checkbox"/> -TOP FLASHER WITH SIDE LIGHTS AT	<input checked="" type="checkbox"/> 1/2 <input type="checkbox"/> 1/3 <input type="checkbox"/> 2/3				
ANTENNA	TOWARD	Stanton R. S.	Jackson R. S.	Beattyville T. S.			
	TYPE	KS-15676 HR	KS-15676 HR	Gabriel DDP10P-3J107			
	HEIGHT (C/L ABOVE GND)	208.5'	208.5'	101'			
	AZIMUTH	330° 13'	103° 15'	194° 38'			
RECEIVE SIGNAL (NOMINAL 4GHz)		See Note			2		
PRIMARY POWER	CONFIGURATION	240/120 VOLTS Single PHASE 3 WIRE					
	FURNISHED BY	Jackson Co. RECC 606-287-7161, Night 464-8380					
	TRANSFORMERS	50 KVA					
ORDER WIRE FACILITIES	FURNISHED BY	South Central Bell Telephone Company					
	TYPE	GPOW per SD-1C245					
	REPORT TBL. TO	SCB Jackson, Mississippi 601-961-1261					
EXCHANGE TELEPHONE SERVICE	EXISTING NO.	606-464-8133					
	BUSINESS OFC.	Louisville, Kentucky 502-562-1011					
	CONTACT	NORMAL 502-223-2306 EMERGENCY 502-582-1051					
	NEAREST PHONE	606-464-2667 (Beattyville CDO)					
	MOBILE PHONE?	744-8057 + Unit # or 789-9040 + Unit #					
LARGE TRUCK PASSAGE	CONDITION OF ACCESS ROAD	<input checked="" type="checkbox"/> GOOD <input type="checkbox"/> POOR <input type="checkbox"/> AS'T. REQ'D.					
	CONDITION OF PUBLIC ROAD	<input checked="" type="checkbox"/> GOOD <input type="checkbox"/> POOR <input type="checkbox"/> AS'T. REQ'D.					
	SNOW REMOVAL BY	State Highway Dept. 606-464-2451					
	CONTRACTOR FOR ASSISTANCE	Everman Construction Company 606-744-6452 Winchester, Kentucky 606-744-6326					
OTHER INSTALLED SYSTEMS OR SERVICES	LENKURT MW						
	COLLINS MW	MDR 2306 4-TX & 4-RX					
	FM TERMINALS	W. E. Company 4A FMT/R Terminals (4)					
	AUTO SWITCHING	W.E.Co. Hot Standby Switching (4): 401 B Switch (2); TL-2 Div. SW.					
	OTHER	(2) W. E. CX117 TL-2 (8) W. E. TD-3D					
MAINTENANCE CENTER		Paintsville Toll		LOCATION	Paintsville, Ky.	TRAVEL TIME	1 1/2 hours

RADIO RELAY RESTORATION PLAN

Date 10-31-78

Station Beattyville R.

ITEM		INFORMATION	PERSON CONTACTED	NOTE
CONTRACTORS AND SUPPLIERS	TYPE	LABORERS <u>Everman Construction Co.</u>	<u>B. Everman</u>	
	LOCATION	<u>Winchester, Kentucky 606-744-6326 & 6452</u>		
	TYPE	SPECIAL EQUIPMENT <u>Lexington Tower Service</u>	<u>Burton</u>	
	LOCATION	<u>Lexington, Kentucky 606-266-2018</u>		
	TYPE	SPECIAL EQUIPMENT <u>Falco Electric</u>		
	LOCATION	<u>Louisville, Kentucky 502-636-3578</u>		
	TYPE	<u>Hogan Electric Company</u>		
	LOCATION	<u>Winchester, Kentucky 606-744-6625</u>		
	TYPE	<u>Lumber & Hardware - Everman</u>		
	LOCATION	<u>Construction Co., Winchester, Kentucky 606-744-6326</u>		
	TYPE			
LOCATION				
RESTORATION KITS - STORAGE LOCATION	TOWER FOUNDATION	<u>American Telephone & Telegraph Company</u>	X	
	COMMUNICATIONS	<u>American Telephone & Telegraph Company</u>		
	OTHER	<u>American Telephone & Telegraph Company</u>		
RENTAL EQUIPMENT	TYPE EQPT.	FIELD OFFICE TRAILER <u>Everman Construction Co.</u>	<u>B. Everman</u>	
	LOCATION	<u>Winchester, Kentucky 606-744-6326 & 6452</u>		
	TYPE EQPT.	2-POWER AUGER (12") <u>Same As Above</u>		
	LOCATION			
	TYPE EQPT.	3-HI SPEED WINCH TRUCKS E/W POWER TAKE-UP <u>Same As Above</u>		
	LOCATION			
	TYPE EQPT.	4-1500W FLOOD LIGHTS <u>Same As Above</u>		
	LOCATION			
	TYPE EQPT.	2 BULLDOZERS (SMALL & LARGE) <u>Same As Above</u>		
	LOCATION			
	TYPE EQPT.	PORTABLE TOILET <u>Same As Above</u>		
	LOCATION			
	TYPE EQPT.			
	LOCATION			
TYPE EQPT.				
LOCATION				

RADIO RELAY RESTORATION PLAN

Date 1-18-85

Station BEATTYVILLE R.

ITEM	INFORMATION	NOTE
NEAREST AIRPORT	Lexington, Kentucky (Blue Grass Field) 606-255-7218	
LOCAL POLICE	Lee County Sheriff 606-464-2952, Night: 606-464-8756	
FIRE DEPARTMENT	Lee County 606-464-2262, Beattyville, Kentucky	3
AMBULANCE	Lee County 606-464-3111 Beattyville, Kentucky	
HOSPITAL	Clark County 606-744-3261 Winchester, Kentucky	
DOCTOR	Smith, 606-464-2946, Taulbee, 606-464-2401 Beattyville, Kentucky	
LODGING	Tincher's Motel, 606-464-9231	
FOOD CATERERS	Purple Cow Restaurant 606-464-9222	
LOCAL SURVEYOR	Palmer Engineering Company, Winchester, Kentucky 606-744-1218	
EMERGENCY SHIPPING ADDRESS	Ecton Movers & Storage, 606-744-6310 Depot Street, Winchester, Kentucky 40391 Attention: Dale Crisman 606-789-9022	

NOTES

1. The special SCBT Co. 11GHz restoration package stored at the AT&T Elizabeth+ town Repeater Station will be needed for waveguide & networks if the tower is damaged but the 11GHz radio equipment is operational.

2. Nominal receive levels in dBm are as follows:

	<u>From Stanton</u>	<u>From Jackson</u>	<u>From Beattyville T.</u>
	4 GHz	4 GHz	11 GHz
	-25.1	-26.4	Horizontal -30.1
			Vertical -30.0

3. 606-464-2424 (Beattyville Police)

ANNUAL REVIEW REQUIREMENTS

Each microwave radio station and tower that provides circuits for the DDD Message Network should have a "Radio Relay Site Restoration Plan" covering the tower and equipment involved. Each plan will contain the following:

- (1) An index sheet showing the contents of the plan. The index sheet will also show the latest issue number and date of each page of the plan, and indicate if any page has been changed since the previous update.
- (2) A front sheet or first page to give a general description of the station.
- (3) Radio Relay Site Restoration Plan Form PAS 84 (Pages 1, 2, and 3).
- (4) Radio Relay Site Restoration Plan Form PAS 85 (Frequency Pattern).
- (5) An intra-office interconnect drawing showing the equipment arrangement.
- (6) A Restoration Plot Plan.

In addition to these six items, some restoration plans may contain a route map, an orderwire and alarm layout, or a mastergroup-super group layout.

Each plan is dated at the time it is issued initially and should be reviewed, thereafter, annually by the maintenance center. If changes are required, they should be given to the Operations Manager-Technical Support at Louisville, Kentucky so that an updated plan can be produced and distributed in accordance with company practices.

PROCEDURES FOR UPDATING AND CHANGING
RADIO RELAY SITE RESTORATION PLANS

- (1) When building and equipment changes are made that affect a restoration plan, the changes should be given to the Operations Manager-Technical Support at Louisville, Kentucky as soon as possible so that an updated plan can be produced and distributed in accordance with company practices. (Note: These types of changes are to be reported as they are completed and placed in service.)
- (2) Any plan changes required as a result of the annual review are to be given to the Operations Manager-Technical Support at Louisville, Kentucky so that an updated plan can be produced and distributed in accordance with company practices. (Note: The annual review is not intended to cover building and equipment changes since these types of changes are to be reported as they are completed. However, if any of the information in the plan needs changing or updating due to errors, etc., the corrections should be reported to the Operations Manager-Technical Support.

RESPONSIBILITIES OF CONTRIBUTORS
TO RADIO RELAY SITE RESTORATION PLANS

<u>DOCUMENT IN SITE RESTORATION BOOK</u>	<u>CONTRIBUTOR</u>
1. Front sheet or first page. (General Description of Station)	Maintenance Center
2. Form PAS 84, page 1, top half of form (all items from location through receive signal).	Operations Manager-Network Planning & Transmission
3. Form PAS 84, page 1, bottom half of form (all items from primary power through remainder of page).	Maintenance Center
4. Form PAS 84, pages 2 and 3.	Maintenance Center
5. Form PAS 85.	Operations Manager-Network Planning & Transmission
6. Intra-Office interconnect drawing.	Operations Manager-Network Planning & Transmission
7. Restoration Plot Plan.	Operations Manager-Network Buildings & Real Estate
8. Index Sheet and Book Covers.	Operations Manager- Technical Support

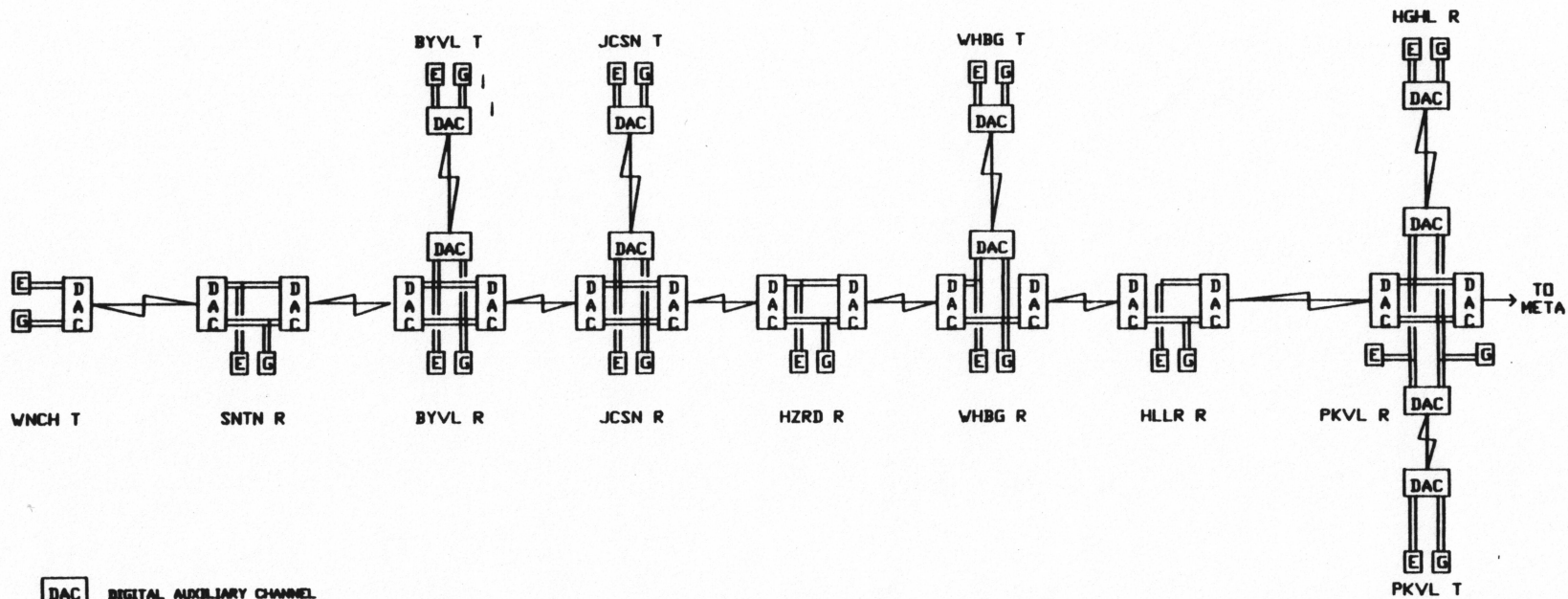
<u>CONTRIBUTOR</u>	<u>RESPONSIBILITIES</u>
Operations Manager-Buildings & Real Estate	<ol style="list-style-type: none"> 1. Establish a Restoration Plot Plan for each radio station and tower site that involves the DDD message network. 2. Provide and stake yellow iron sighting pins in accordance with the plot plan. 3. Provide ten copies of each Restoration Plot Plan to the Operations Manager-Technical Support. Also, when required, update each Restoration Plot Plan as building and equipment changes are made.

RESPONSIBILITIES OF CONTRIBUTORS
TO RADIO RELAY SITE RESTORATION PLANS

<u>CONTRIBUTOR</u>	<u>RESPONSIBILITIES</u>
Maintenance Center	<ol style="list-style-type: none">1. Provide one copy of front sheet or first page (General Description of Station), one copy of Form PAS 84, page 1 (bottom half) and one copy of Form PAS 84, pages 2 and 3, to Operations Manager-Technical Support for each radio station and tower that involves the DDD message network.2. Make an annual review of each Radio Relay Site Restoration Plan and provide the Operations Manager-Technical Support with one copy of all information which should be updated or changed. (Note: Since each plan is dated at the time it is issued initially, the review should be completed on or before the day and month shown on the plan.)3. Verify that the yellow iron sighting pins are in good condition and located as shown on the Restoration Plot Plan.
Operations Manager-Network Planning & Transmission	<ol style="list-style-type: none">1. Transmission Engineering provides one copy of Form PAS 84, page 1 (top half), one copy of Form PAS 85 and one copy of intra-office interconnect drawing, to Operations Manager-Technical Support, for each radio station and tower site that involves the DDD message network.

RESPONSIBILITIES OF CONTRIBUTORS
TO RADIO RELAY SITE RESTORATION PLANS

<u>CONTRIBUTOR</u>	<u>RESPONSIBILITIES</u>
Operations Manager-Network Planning & Transmission	<p>Also, update, when required, each of the above documents when building and equipment changes are made and placed in service.</p> <ol style="list-style-type: none">2. If required, Transmission Engineering provides one copy of route map, an orderwire and alarm layout, or a mastergroup-super group layout.
Operations Manager- Technical Support	<ol style="list-style-type: none">1. Provide book covers with issue dates for the microwave radio emergency restoration plans.2. Provide index sheets for each plan or book.3. Receive all update and change information.4. Issue updated pages as soon as possible after receiving the information specified in item 3 above and distribute in accordance with company practices.



DAC DIGITAL AUXILIARY CHANNEL

G GPOV

E EPA

**E2A AND GPOV
ARRANGEMENTS**

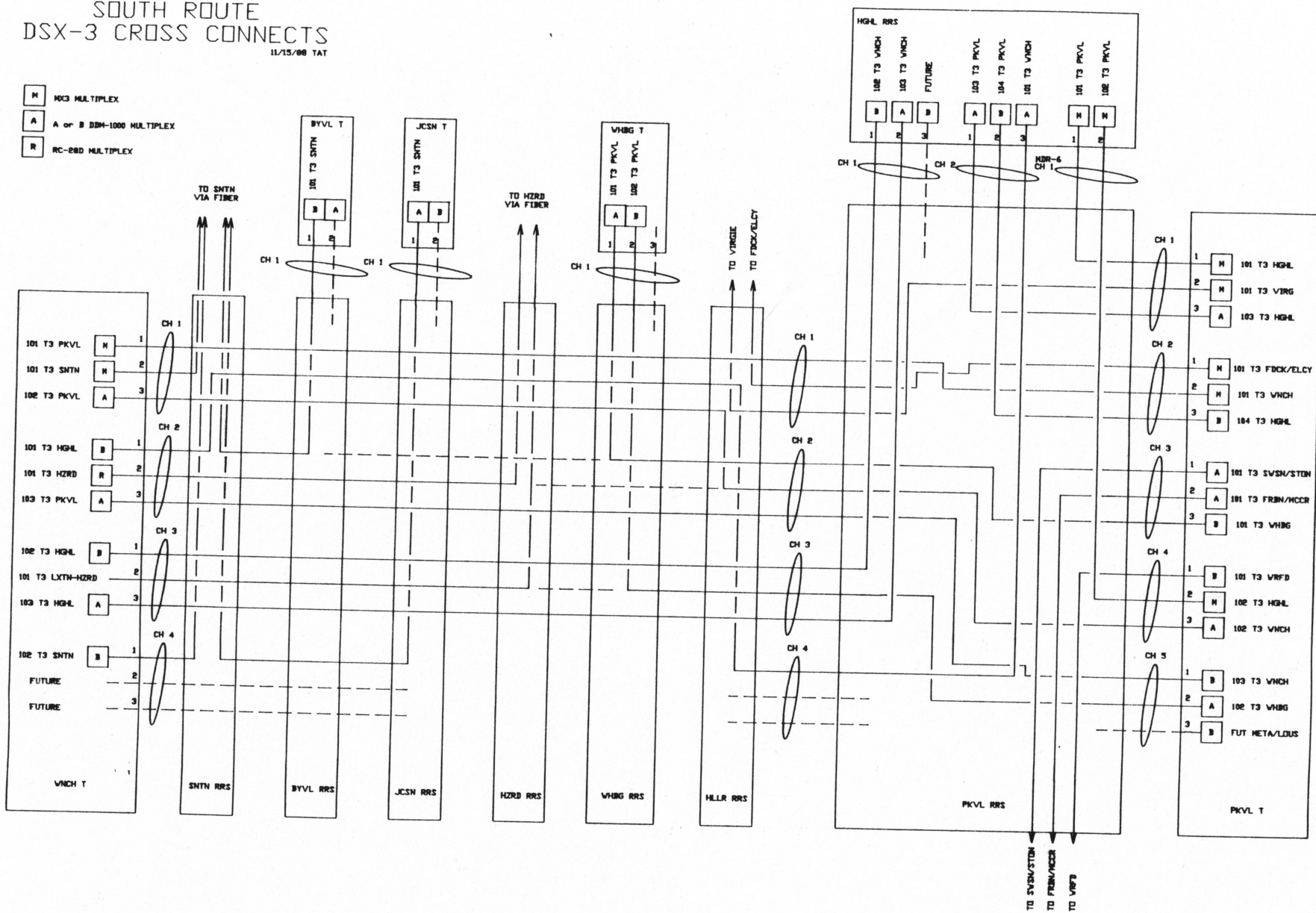
E-27-87 TAT 1187-5

DAC873

SOUTH ROUTE DSX-3 CROSS CONNECTS

11/15/88 TAT

- M** MDC3 MULTIPLEX
- A** A or B DDM-1000 MULTIPLEX
- R** RC-28D MULTIPLEX



BYVL RRS

330.22 ----->

16.89

<----- 150.13

SNTN RRS

TX. STA.

AZIMUTH (DEG)

DISTANCE (MI)

AZIMUTH (DEG)

RX. STA.

FREQ.: 6.175 GHZ.

POL.: UNSPECIFIED

TRANSMITTING

RECEIVING

ANTENNA		GAIN (DB)	LOSS (DB)		LOSS (DB)	GAIN (DB)	ANTENNA	
MFG.	WECD			----- RADOME -----			ANDREW	MFG.
TYPE	KS-15676		0.5	----- POL. NET. -----	0.5		SHX-10B1	TYPE
SIZE	HORN			----- OTHER -----		42.7	HORN	SIZE
GAIN	43	43.0		----- COMPONENT -----			42.7	GAIN
CL (FT)	209.0			----- CIRC PORT -----	1.5		225.0	CL (FT)
			1.5	----- ISOLATORS -----				OTHER
WAVEGUIDE								WAVEGUIDE
TYPE	FT.						FT.	TYPE
WC281	162.0		0.5		0.5		175.0	WC281
EWP52	30.0		0.4		0.4		30.0	EWP52
WR159	20.0		0.3		0.5		30.0	WR159
FLEX	10.0		0.5		0.5		10.0	FLEX
OTHER			0.5	----- CHL. FLTR. -----	0.5			OTHER
TRANSMITTER								
TYPE	PWR.							
MDR-2306	33.0	33.0						
		76.0	4.1		4.3	42.7		

NOTES						NOTES
1. WAVEGUIDE LENGTHS FROM ESTIMATES		F.S.L.	-137.0 DB			1. WAVEGUIDE LENGTHS FROM ESTIMATES
		LOSSES	-8.5 DB			
		GAINS	118.7 DB			
		R.S.L.	-26.7 DB			

SNTN RRS

150.13 ----->

16.89

<----- 330.22

BYVL RRS

TX. STA.

AZIMUTH (DEG)

DISTANCE (MI)

AZIMUTH (DEG)

RX. STA.

FREQ.: 6.175 GHZ.

POL.: UNSPECIFIED

TRANSMITTING

RECEIVING

ANTENNA		GAIN (DB)	LOSS (DB)			LOSS (DB)	GAIN (DB)	ANTENNA	
MFG.	WECO			----- RADOME -----				ANDREW	
TYPE	KS-15676		0.5	----- POL. NET. -----		0.5		SHX-10B1	
SIZE	HORN							HORN	
GAIN	43	43.0		----- OTHER -----			42.7	42.7	
CL (FT)	209.0			----- COMPONENT -----				209.0	
			1.5	----- CIRC PORT -----		1.5			
				----- ISOLATORS -----					
WAVEGUIDE								WAVEGUIDE	
TYPE	FT.							FT. TYPE	
WC281	160.0		0.4			0.5		162.0 WC281	
EWP52	20.0		0.2			0.4		30.0 EWP52	
WR159	20.0		0.3			0.3		20.0 WR159	
FLEX	10.0		0.5			0.5		10.0 FLEX	
OTHER			0.5	----- CHL. FLTR. -----		0.5		OTHER	
TRANSMITTER									
TYPE	PWR.								
MDR-2306	33.0	33.0							

76.0 4.0

4.1 42.7

NOTES							NOTES
1. WAVEGUIDE			F.S.L.	-137.0 DB			1. WAVEGUIDE
LENGTHS			LOSSES	-8.1 DB			LENGTHS
FROM			GAINS	118.7 DB			FROM
ESTIMATES			R.S.L.	-26.4 DB			ESTIMATES

ISSUED: 6-12-87 TAT

SNTN RRS TO BYVL RRS

SYSTEM DESIGN

M87-5

JCSN RRS

103.25 ----->

16.59

<----- 283.43

BYVL RRS

TX. STA.

AZIMUTH (DEG)

DISTANCE (MI)

AZIMUTH (DEG)

RX. STA.

FREQ.: 6.175 GHZ.

POL.: UNSPECIFIED

TRANSMITTING

RECEIVING

ANTENNA		GAIN (DB)	LOSS (DB)			LOSS (DB)	GAIN (DB)	ANTENNA	
MFG.	WECD			----- RADOME -----				ANDREW	
TYPE	KS-15676		0.5	----- POL. NET. -----		0.5		SHX-10B1	
SIZE	HORN							HORN	
GAIN	43	43.0		----- OTHER -----			42.7	42.7	
CL (FT)	309.0			----- COMPONENT -----				209.0	
			1.5	----- CIRC PORT -----		1.5			
				----- ISOLATORS -----					
WAVEGUIDE								WAVEGUIDE	
TYPE	FT.							FT.	
WC281	290.0		0.8			0.5		163.0	
EWP52	20.0		0.2			0.4		30.0	
WR159	15.0		0.2			0.3		20.0	
FLEX	10.0		0.5			0.5		10.0	
OTHER			0.5	----- CHL. FLTR. -----		0.5			
TRANSMITTER									
TYPE	PWR.								
MDR-2306	33.0	33.0							
		76.0	4.3			4.1	42.7		

NOTES								NOTES
1. WAVEGUIDE LENGTHS FROM ESTIMATES			F.S.L.	-136.8 DB				1. WAVEGUIDE LENGTHS FROM ESTIMATES
			LOSSES	-8.4 DB				
			GAINS	118.7 DB				
			R.S.L.	-26.5 DB				

BYVL RRS

283.43 ----->

16.59

<----- 103.25

JCSN RRS

TX. STA.

AZIMUTH (DEG)

DISTANCE (MI)

AZIMUTH (DEG)

RX. STA.

FREQ.: 6.175 GHZ.

POL.: UNSPECIFIED

TRANSMITTING

RECEIVING

ANTENNA		GAIN (DB)	LOSS (DB)		LOSS (DB)	GAIN (DB)	ANTENNA	
MFG.	WECD			----- RADOME -----			ANDREW	MFG.
TYPE	KS-15676		0.5	----- POL. NET. -----	0.5		SHX-10B1	TYPE
SIZE	HORN			----- OTHER -----		42.7	HORN	SIZE
GAIN	43	43.0		----- COMPONENT -----			42.7	GAIN
CL (FT)	209.0			----- CIRC PORT -----	1.5		309.0	CL (FT)
				----- ISOLATORS -----				OTHER
WAVEGUIDE								WAVEGUIDE
TYPE	FT.						FT.	TYPE
WC281	163.0		0.5		0.8		290.0	WC281
EWP52	30.0		0.4		0.4		30.0	EWP52
WR159	20.0		0.3		0.2		15.0	WR159
FLEX	10.0		0.5		0.5		10.0	FLEX
OTHER								OTHER
			0.5	----- CHL. FLTR. -----	0.5			
TRANSMITTER								
TYPE	PWR.							
MDR-2306	33.0	33.0						
		76.0	4.1		4.4	42.7		

NOTES

1. WAVEGUIDE
LENGTHS
FROM

ESTIMATES

F.S.L. -136.8 DB
LOSSES -8.6 DB
GAINS 118.7 DB

R.S.L. -26.7 DB

NOTES

1. WAVEGUIDE
LENGTHS
FROM

ESTIMATES

ISSUED: 6-12-87 TAT

BYVL RRS TO JCSN RRS

SYSTEM DESIGN

M87-5

BYVL RRS 194.63 ----->

2.79 -----

<----- 160.80

BYVL T

TX. STA. AZIMUTH (DEG)
VIA BYVL PASSIVE

DISTANCE (MI)

AZIMUTH (DEG)
VIA BYVL PASSIVE

RX. STA.

TRANSMITTING

FREQ.: 11.200 GHZ.
POL.: UNSPEC.

RECEIVING

ANTENNA		GAIN (DB)	LOSS (DB)
MFG.	GABRIEL		0.9
TYPE	DD10P3J107H		
SIZE	10' DISH		
GAIN	47.6	47.6	
CL (FT)	100.0		
WAVEGUIDE			
TYPE	FT.		
WC281			0.0
EWF90	143.0		4.4
WR90	21.8		0.9
FLEX	6.2		0.5
OTHER			0.5
TRANSMITTER			
TYPE	PWR.		
MDR-11	30.0	30.0	

LOSS (DB)	GAIN (DB)
0.7	
1.0	
4.0	42.0
0.2	
0.0	
0.0	
1.2	
0.6	
0.5	

ANTENNA		LOSS (DB)	GAIN (DB)
MFG.	WECC		
TYPE	KS-15970		
SIZE	5' DISH		
GAIN	42		
CL (FT)	37.5		
WAVEGUIDE			
TYPE	FT.		
WC281			0.0
EWF90			0.0
WR90	29.6		1.2
FLEX	8.0		0.6
OTHER			0.5
TRANSMITTER			
TYPE	PWR.		
MDR-11	30.0	30.0	

*NEAR FIELD LOSS

NOTES 77.6 7.4

8.2 42.0

NOTES

1. WAVEGUIDE LENGTHS FROM
T-7S84-676
T-7S84-677

*N.F.L. -0.7 DB
F.S.L. -126.5 DB
LOSSES -15.6 DB
GAINS 119.6 DB
R.S.L. -23.2 DB

1. WAVEGUIDE LENGTHS FROM
T-5S22-6764
T-5S22-677

ISSUED: 6-12-87 TAT

BYVL RRS TO BYVL T

SYSTEM DESIGN

M87-5

BYVL T 160.80 ----->

2.79

<----- 194.63

BYVL RRS

TX. STA. AZIMUTH (DEG)
VIA BYVL PASSIVE

DISTANCE (MI)

AZIMUTH (DEG)
VIA BYVL PASSIVE

RX. STA.

FREQ.: 11.200 GHZ.
POL.: UNSPEC.

TRANSMITTING

RECEIVING

ANTENNA		GAIN (DB)	LOSS (DB)		LOSS (DB)	GAIN (DB)	ANTENNA	
MFG.	WECO		0.7	----- RADOME -----	0.9		GABRIEL	MFG.
TYPE	KS-15790		1.0	----- POL. NET. -----			DD10P3J107H	TYPE
SIZE	5' DISH						10' DISH	SIZE
GAIN	42	42.0		----- OTHER -----	4.0	47.6	47.6	GAIN
CL (FT)	37.5			----- COMPONENT -----			100.0	CL (FT)
			0.2	----- CIRC PORT -----	0.2			OTHER
				----- ISOLATORS -----				
WAVEGUIDE							WAVEGUIDE	
TYPE	FT.						FT.	TYPE
WC281			0.0		0.0			WC281
EWP90			0.0		4.4		143.0	EWP90
WR90	29.6		1.2		0.9		21.8	WR90
FLEX	8.0		0.6		0.5		6.2	FLEX
OTHER								OTHER
			0.5	----- CHL. FLTR. -----	0.5			
TRANSMITTER								
TYPE	PWR.							
MDR-11	30.0	30.0						

*NEAR FIELD LOSS

72.0

4.2

11.4

47.6

NOTES

NOTES

1. WAVEGUIDE LENGTHS FROM

T-5S22-676
T-5S22-677

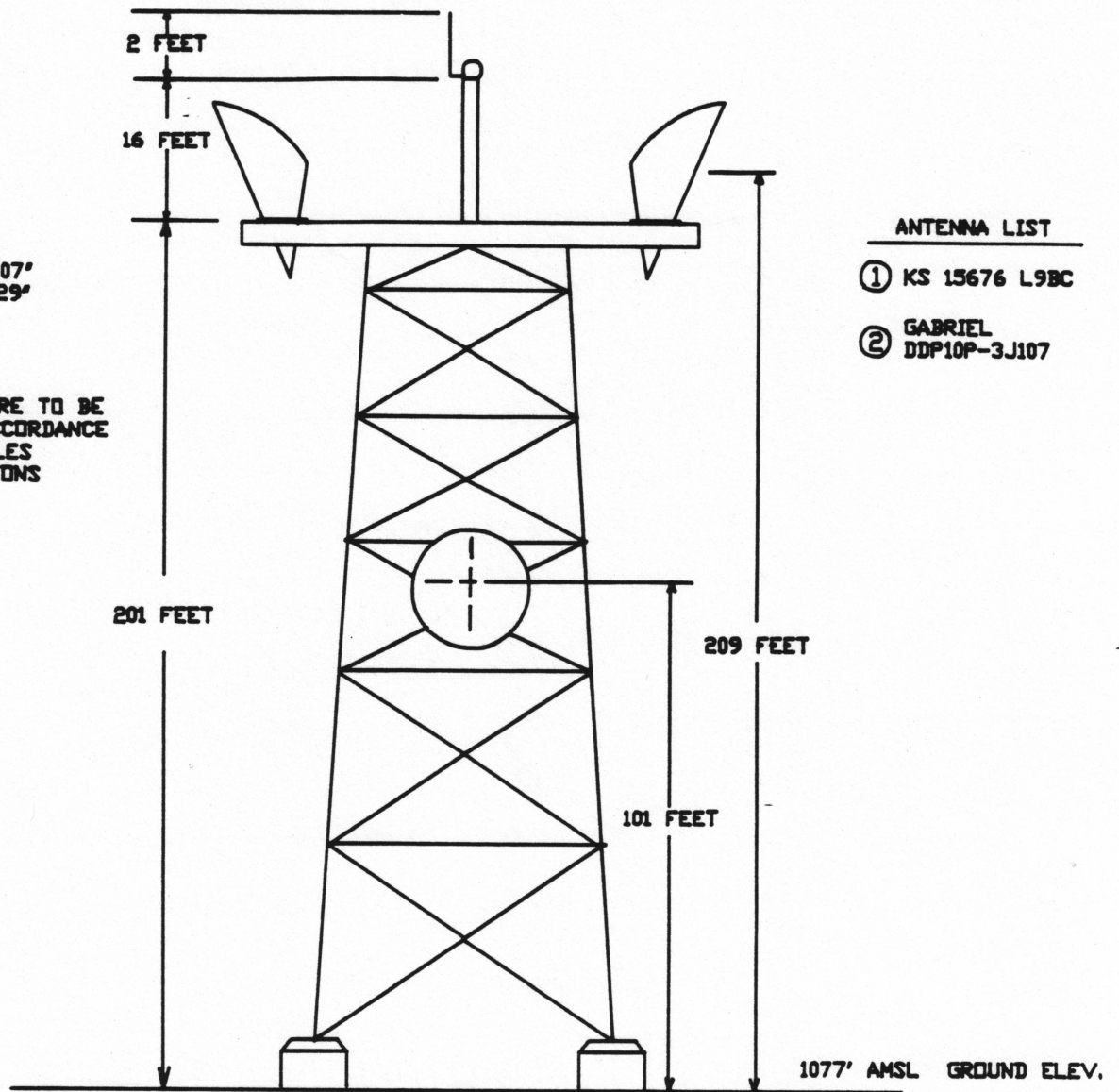
*N.F.L. -0.7 DB
F.S.L. -126.5 DB
LOSSES -15.6 DB
GAINS 119.6 DB
R.S.L. -23.2 DB

1. WAVEGUIDE LENGTHS FROM

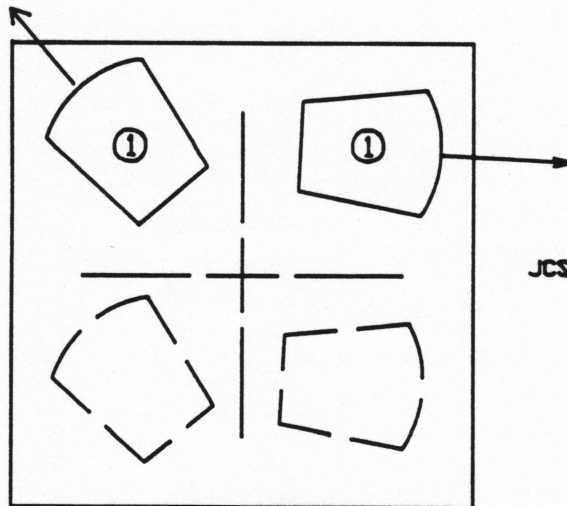
T-7S84-6764
T-7S84-677

LAT 37 36' 07"
LONG 83 41' 29"

ANT. STRUCTURE TO BE
MARKED IN ACCORDANCE
WITH FCC RULES
AND REGULATIONS



SNTN RRS AZ 330 13'



JCSN RRS AZ 103 15'

BYVL RRS
PRESENT
TOWER & ANT
ARRANGEMENT

BYVLRTRV

BYVL T AZ 194 38'

TAT 3-17-87

KS-15676, LIST 9BC, 9BD, 14BC OR 14BD HORN REFLECTOR ANTENNA



PARABOLIC ANTENNA, TYPE SPECIFIED



PAD, WAVEGUIDE OR COAXIAL



WAVEGUIDE CIRCULATOR



TERMINATION, WAVEGUIDE OR COAXIAL



BLANK WAVEGUIDE SPACER FOR FUTURE NETWORK



1424A WAVEGUIDE NETWORK



1405A WAVEGUIDE NETWORK



1406A WAVEGUIDE NETWORK



1407A WAVEGUIDE NETWORK



1428A WAVEGUIDE NETWORK



HYBRID, COAXIAL



WAVEGUIDE HYBRID-FILTER COMBINATION



HIGH-PASS/LOW-PASS FILTER COMBINATION



COAXIAL SWITCH



AMPLIFIER, TYPE SPECIFIED



FM RECEIVER, TYPE SPECIFIED



FM TRANSMITTER, TYPE SPECIFIED

HEAVY LINES INDICATE NEW ADDITIONS

LIGHT LINES INDICATE EXISTING COMPONENTS

(-5)

SINGLE CHANNEL TEST TONE LEVEL IN dBm

LEGEND SHEET
OF
SYMBOLS USED