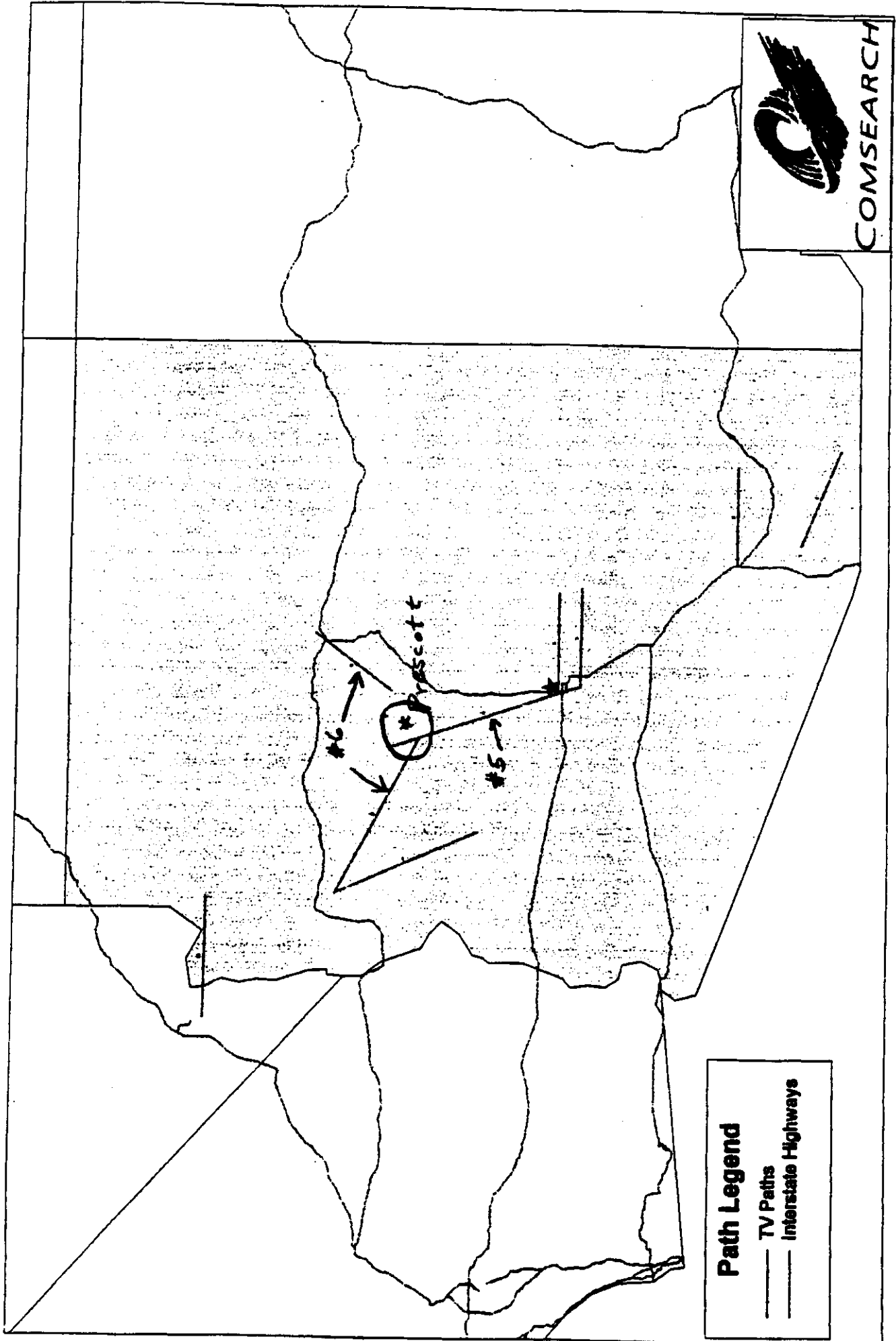


# ATTACHMENT B-1

# 1990 - 2025 MHz Terrestrial Microwave Paths in Arizona



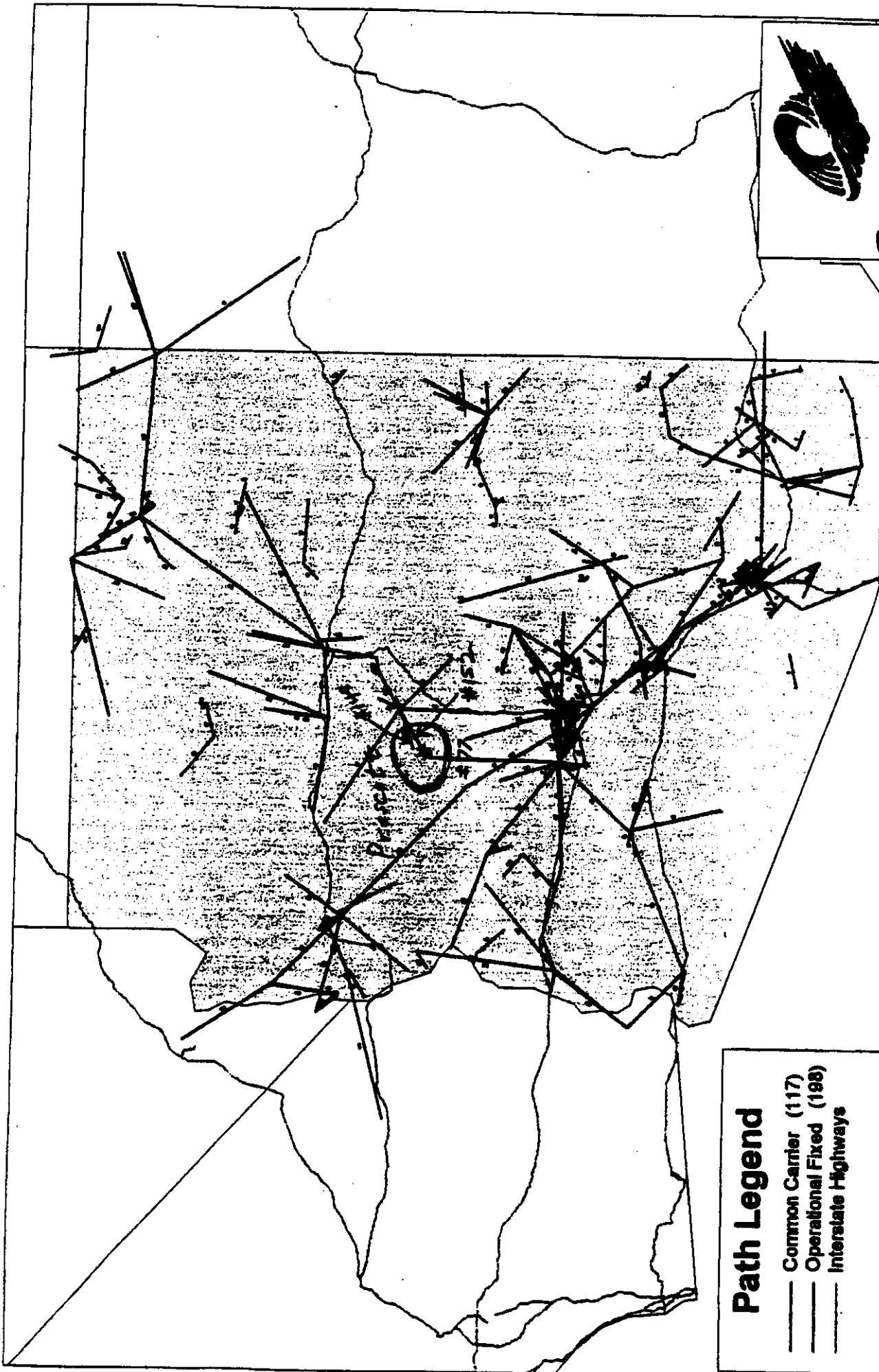
**Path Legend**

— TV Paths

— Interstate Highways



# 2160 - 2200 MHz Terrestrial Microwave Paths in Arizona



**Path Legend**

- Common Carrier (117)
- Operational Fixed (198)
- Interstate Highways

COMSEARCH  
2002 Edmund Halley Drive  
Reston, VA 20191  
(703) 620-6300

05/05/9

8

MICROWAVE PATH DATA

TV (Pink) Overlay # : 5

FILE # : 890811MI

FILE # :

APPDATE : 081089  
GAPDATE : 102089

APPDATE :  
GAPDATE :

<b>STATION NAME</b>	<b>JEROME</b>	<b>AZ</b>	<b>MARICOPA</b>	<b>AZ</b>
PATH STATUS	LICENSED			
CALL SIGN	WLP201		RXONLY	
OWNER CODE (SRV)	KSAZTV (TV)		KSAZTV (TV)	
LATITUDE (D-M-S)	34 41 14.0		33 20 2.0	
LONGITUDE (D-M-S)	112 36 40.0		112 3 42.0	
GROUND ELEV (Ft/m-AMSL)	7650/2331.6		10/3.0	
PATH AZIMUTH (Deg)	161.165		341.472	
PATH DISTANCE (Miles)		98.462		
		158.459		
<b>ANTENNA</b>				
PRIMARY TX	TYPICAL		NOT APPLICABLE	
	12 FOOT DISH			
<b>ANT CODE</b>				
GAIN (dBi)	34.7			
C/L (Ft/m-AGL)	34/10.4			
PRIMARY RX	NOT APPLICABLE		TYPICAL	
			12 FOOT DISH	
<b>ANT CODE</b>				
GAIN (dBi)			34.7	
C/L (Ft/m-AGL)			10/3.0	
DIVERSITY RX				
<b>ANT CODE</b>				
GAIN (dBi)				
C/L (Ft/m-AGL)				
<b>EQUIPMENT</b>	<b>AB EQUIPMENT</b>		<b>RECEIVE</b>	
	UNKNOWN		ONLY	
EQP CODE	AB0199			
EMISSION	17M0P9W			
LOADING	1 CH FMV (T)		1 CH FMV (T)	
STABILITY (%)	0.005000		0.005000	
POWER (dBm/Watts)	33.0/1.995			
RECEIVED LEVEL (dBm)			-40.1	
EIRP (dBm/Watts)	67.7/5888.4			
FIXED LOSSES (dB)	0.0		0.0	
FREE SPACE LOSS (dB)		142.5		
<b>TRANSMIT</b>	<b>2025.00000V</b>			

*BW = 17M0P9W*

**FREQUENCIES (MHZ)**  
KSAZTV = KSAZ LICENSE  
KSAZTV MR. GERALD GRUNIG

KSAZ LICENSE  
511 WEST ADAMS  
PHOENIX

AZ 85003 6022571234

COMSEARCH  
 2002 Edmund Halley Drive  
 Reston, VA 20191  
 (703) 620-6300

05/05/98

MICROWAVE PATH DATA

TV (Pink) Overlay #: 6

FILE # : 890202MA  
 APPDATE : 113088  
 GAPPDATE : 072291

FILE # :  
 APPDATE :  
 GAPPDATE :

STATION NAME	MT FRANCIS	AZ	HAYDEN PEAK	AZ
PATH STATUS	LICENSED			
CALL SIGN	WLO613		WLQ918	
OWNER CODE (SRV)	HOWROY (TV)		HOWROY (TV)	
LATITUDE (D-M-S)	34 29 20.0		35 4 52.0	
LONGITUDE (D-M-S)	112 32 15.0		113 54 13.0	
GROUND ELEV (Ft/m-AMSL)	7200/2194.5		0/0.0	
PATH AZIMUTH (Deg)	298.108		117.329	
PATH DISTANCE (Miles)		87.766		
(Km)		141.247		
ANTENNA				
PRIMARY TX	ANDREW CORPORATION		NOT APPLICABLE	
	GP6F-17A			
ANT CODE				
GAIN (dBi)	28.5			
C/L (Ft/m-AGL)	17/5.2			
PRIMARY RX	NOT APPLICABLE		ANDREW CORPORATION	
			GP6F-17A	
ANT CODE				
GAIN (dBi)			28.5	
C/L (Ft/m-AGL)			10/3.0	
DIVERSITY RX				
ANT CODE				
GAIN (dBi)				
C/L (Ft/m-AGL)				
EQUIPMENT	MICROWAVE ASSOCIATES		RECEIVE	
	MA-2G		ONLY	
EQP CODE	139ZZZ			
EMISSION	18M0F8W			
LOADING	1 CH FMV (T)		1 CH FMV (T)	
STABILITY (%)	0.005000		0.005000	
POWER (dBm/Watts)	42.0/15.849			
RECEIVED LEVEL (dBm)			-42.5	
EIRP (dBm/Watts)	70.5/11220.2			
FIXED LOSSES (dB)	0.0		0.0	
FREE SPACE LOSS (dB)		141.5		
TRANSMIT	2025.00000H			
FREQUENCIES (MHZ)				

HOWROY = HOWARD F. ROYCROFT  
 HOWROY MR. TOM FOY

HOWARD F. ROYCROFT  
 555 13TH STREET NW  
 WASHINGTON

COMSEARCH  
2002 Edmund Halley Drive  
Reston, VA 20191  
(703) 620-6300

05/05/98

MICROWAVE PATH DATA

CC (Red) Overlay # : 77

RCN #: 94121205

FILE # :

FILE # :

APPDATE :

APPDATE :

GAPPDATE :

GAPPDATE :

STATION NAME

WHITE TANKS\* AZ

MT FRANCIS \* AZ

PATH STATUS

PROPOSED OR PRIOR COORDINATED

CALL SIGN

WLT401

OWNER CODE (SRV)

SOUWES (CC)

SOUWES (CC)

LATITUDE (D-M-S)

33 34 6.0

34 29 24.0

LONGITUDE (D-M-S)

112 33 32.0

112 31 59.0

GROUND ELEV (Ft/m-AMSL)

3990/1216.1

7090/2160.9

PATH AZIMUTH (Deg)

1.330

181.344

PATH DISTANCE (Miles)

63.541

(Km)

102.259

ANTENNA

PRIMARY TX

ANDREW CORPORATION

ANDREW CORPORATION

HP10F-21A

P10F-21C

ANT CODE

A24204

A24960

GAIN (dBi)

34.0

34.2

C/L (Ft/m-AGL)

30/9.1

50/15.2

PRIMARY RX

SAME AS TRANSMITTER

ANT CODE

GAIN (dBi)

C/L (Ft/m-AGL)

DIVERSITY RX

ANT CODE

GAIN (dBi)

C/L (Ft/m-AGL)

EQUIPMENT

ALCATEL NETWORK SYST

ALCATEL NETWORK SYST

JF6-9308 MDR-5102

JF6-9308 MDR-5102

EQP CODE

TEM083

TEM083

EMISSION

3M50D7W

3M50D7W

LOADING

288 CH DIG (0)

288 CH DIG (0)

STABILITY (%)

0.001000

0.001000

POWER (dBm/Watts)

35.0/3.162

35.0/3.162

RECEIVED LEVEL (dBm)

-40.1

-40.1

EIRP (dBm/Watts)

67.0/5011.9

67.2/5248.1

FIXED LOSSES (dB)

2.0

2.0

FREE SPACE LOSS (dB)

139.3

TRANSMIT

2112.00000V

2162.00000V

FREQUENCIES (MHZ)

SOUWES = SOUTHWESTCO WIRELESS LP DBA CELLULAR ONE  
SOUWES MR. DON NEWNUM

SOUTHWESTCO WIRELESS LP DBA CELLULAR ONE

7975 N. HAYDEN ROAD, SUITE A-200  
SCOTTSDALE

AZ 85258

2002 Edmund Halley  
Reston, VA 20191  
(703) 620-6300

05/05/98

MICROWAVE PATH DATA

OF (Blue) Overlay # : 148

RCN #:

FILE # : 722903  
APPDATE : 012296  
GAPDATE : 031296

FILE # : 722904  
APPDATE : 012296  
GAPDATE : 031296

STATION NAME

PATH STATUS

CALL SIGN

OWNER CODE (SRV)

LATITUDE (D-M-S)

LONGITUDE (D-M-S)

GROUND ELEV (Ft/m-AMSL)

PATH AZIMUTH (Deg)

PATH DISTANCE (Miles)

(Km)

COMMERCE DR AZ

LICENSED

WNEM627

S63003 (OF)

34 36 5.0

112 27 22.0

5172/1576.3

71.052

19.848

31.943

MINGUS MTN AZ

WNEM628

S63003 (OF)

34 41 40.0

112 7 35.0

7743/2360.0

251.239

ANTENNA

PRIMARY TX

ANDREW CORPORATION

GP6F-21A

A21950

29.8

60/18.3

ANDREW CORPORATION

GP6F-21A

A21950

29.8

40/12.2

PRIMARY RX

SAME AS TRANSMITTER

ANT CODE

GAIN (dBi)

C/L (Ft/m-AGL)

DIVERSITY RX

ANT CODE

GAIN (dBi)

C/L (Ft/m-AGL)

EQUIPMENT

MOTOROLA INC

CC6001

2I2Y02

1M60F8W

96 CH MSG (F)

0.001000

30.0/1.000

MOTOROLA INC

CC6001

2I2Y02

1M60F8W

96 CH MSG (F)

0.001000

30.0/1.000

RECEIVED LEVEL (dBm)

-42.7

-42.7

EIRP (dBm/Watts)

57.8/602.6

58.8/758.6

FIXED LOSSES (dB)

2.0

1.0

FREE SPACE LOSS (dB)

129.3

TRANSMIT

FREQUENCIES (MHZ)

2133.20000H

2183.20000H

S63003 = MOTOROLA INC

S63003 JD PYSHNIK

MOTOROLA INC

1270 FAIRFIELD RD SUITE 5

GETTYSBURG

PA 17325

7173349741

COMSEARCH  
 2002 Edmund Halley Drive  
 Reston, VA 20191  
 (703) 620-6300

05/05/98

MICROWAVE PATH DATA

OF (Blue) Overlay # : 152

RCN #: 89101338

FILE # : 707955  
 APPDATE : 100794  
 GAPPDATE : 012095

FILE # : 738084  
 APPDATE : 102897  
 GAPPDATE : 040298

<b>STATION NAME</b>	<b>RESERVOIR</b>	<b>AZ</b>	<b>MINGUS MTN</b>	<b>AZ</b>
PATH STATUS	LICENSED			
CALL SIGN	KOK53		KOK56	
OWNER CODE (SRV)	S00060 (OF)		S00060 (OF)	
LATITUDE (D-M-S)	34 32 4.0		34 42 4.0	
LONGITUDE (D-M-S)	112 27 47.0		112 7 1.0	
GROUND ELEV (Ft/m-AMSL)	5600/1706.8		7811/2380.7	
PATH AZIMUTH (Deg)	59.683		239.880	
PATH DISTANCE (Miles)		22.826		
		(Km)		36.735
<b>ANTENNA</b>				
PRIMARY TX	ANDREW CORPORATION		ANDREW CORPORATION	
	PL6-19C		PL6-19C	
ANT CODE	A21800		A21800	
GAIN (dBi)	29.5		29.5	
C/L (Ft/m-AGL)	32/9.8		73/22.2	
PRIMARY RX				
	SAME AS TRANSMITTER			
ANT CODE				
GAIN (dBi)				
C/L (Ft/m-AGL)				
DIVERSITY RX				
ANT CODE				
GAIN (dBi)				
C/L (Ft/m-AGL)				
<b>EQUIPMENT</b>	<b>FARINON ELECTRIC CO</b>		<b>FARINON ELECTRIC CO</b>	
EQP CODE	SS2000T2		SS2000T2	
EMISSION	2VJJ02		2VJJ02	
LOADING	800KF8W		800KF8W	
STABILITY (%)	24 CH MSG (V)		24 CH MSG (V)	
POWER (dBm/Watts)	0.001000		0.001000	
	33.0/1.995		33.0/1.995	
RECEIVED LEVEL (dBm)	-41.5		-41.5	
EIRP (dBm/Watts)	61.5/1412.5		60.5/1122.0	
FIXED LOSSES (dB)	1.0		2.0	
FREE SPACE LOSS (dB)		130.5		
<b>TRANSMIT</b>	<b>2149.20000V</b>		<b>2199.20000V</b>	
<b>FREQUENCIES</b>	<b>(MHZ)</b>			

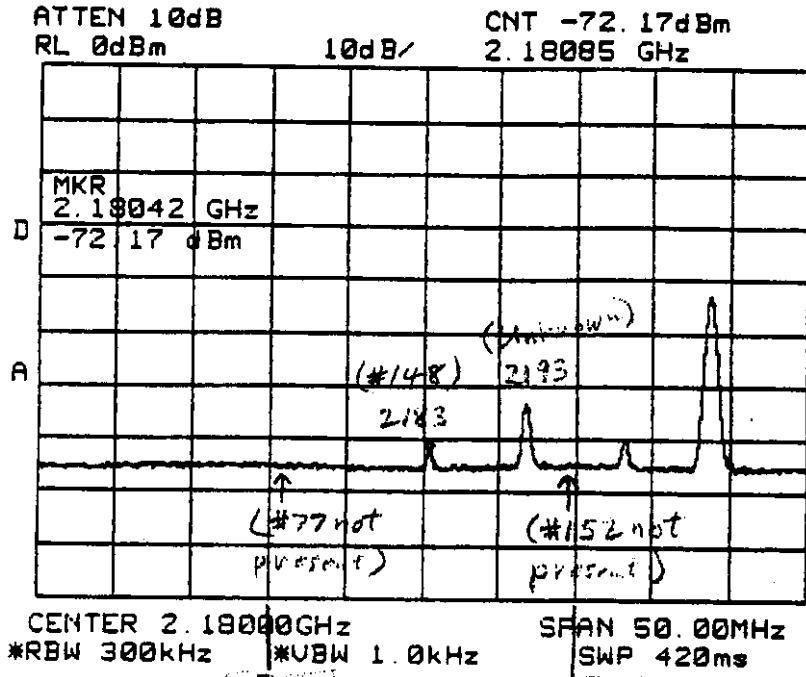
S00060 = ARIZONA PUBLIC SERVICE COMPANY  
 S00060 TERRY BURNS  
 ARIZONA PUBLIC SERVICE COMPANY  
 PO BOX 53999, MAIL STOP #3864  
 PHOENIX

AZ 85072-3933



## **ATTACHMENT B-2**

File 509



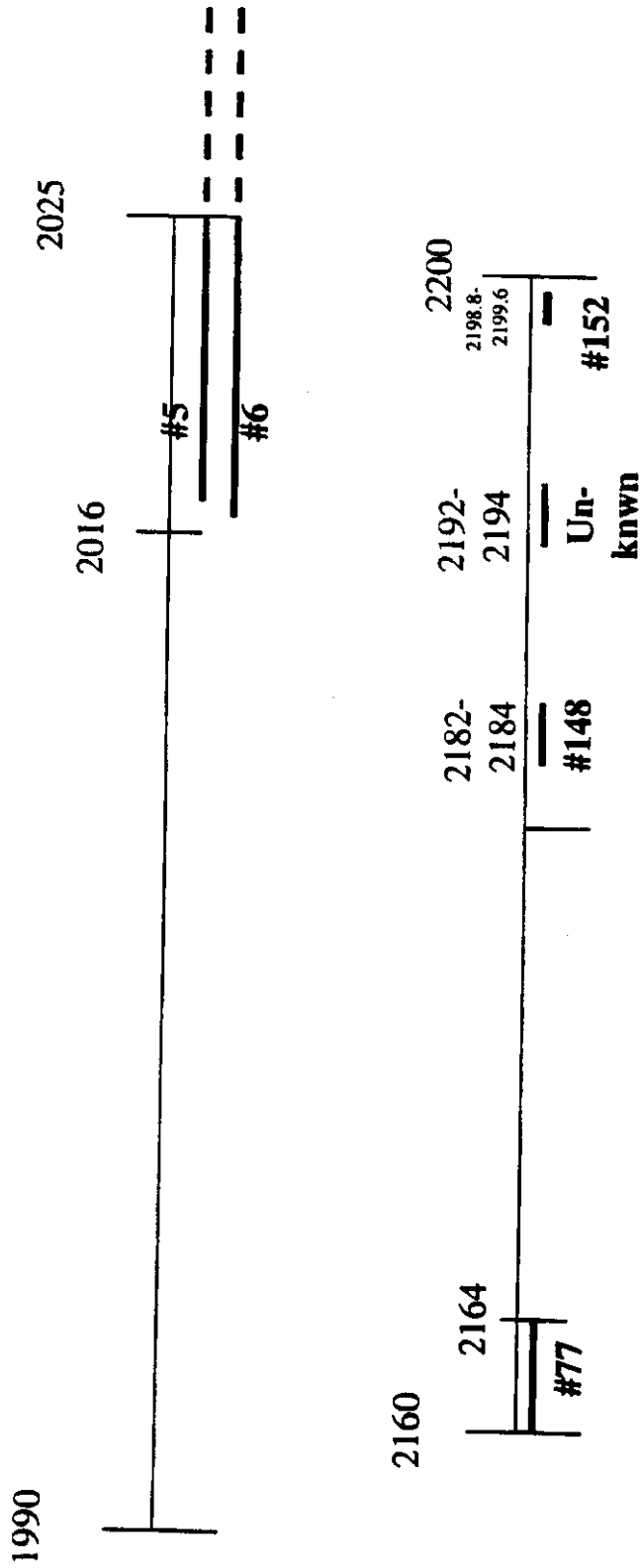
POWER SPECTRUM

PRESCOTT, ARIZONA

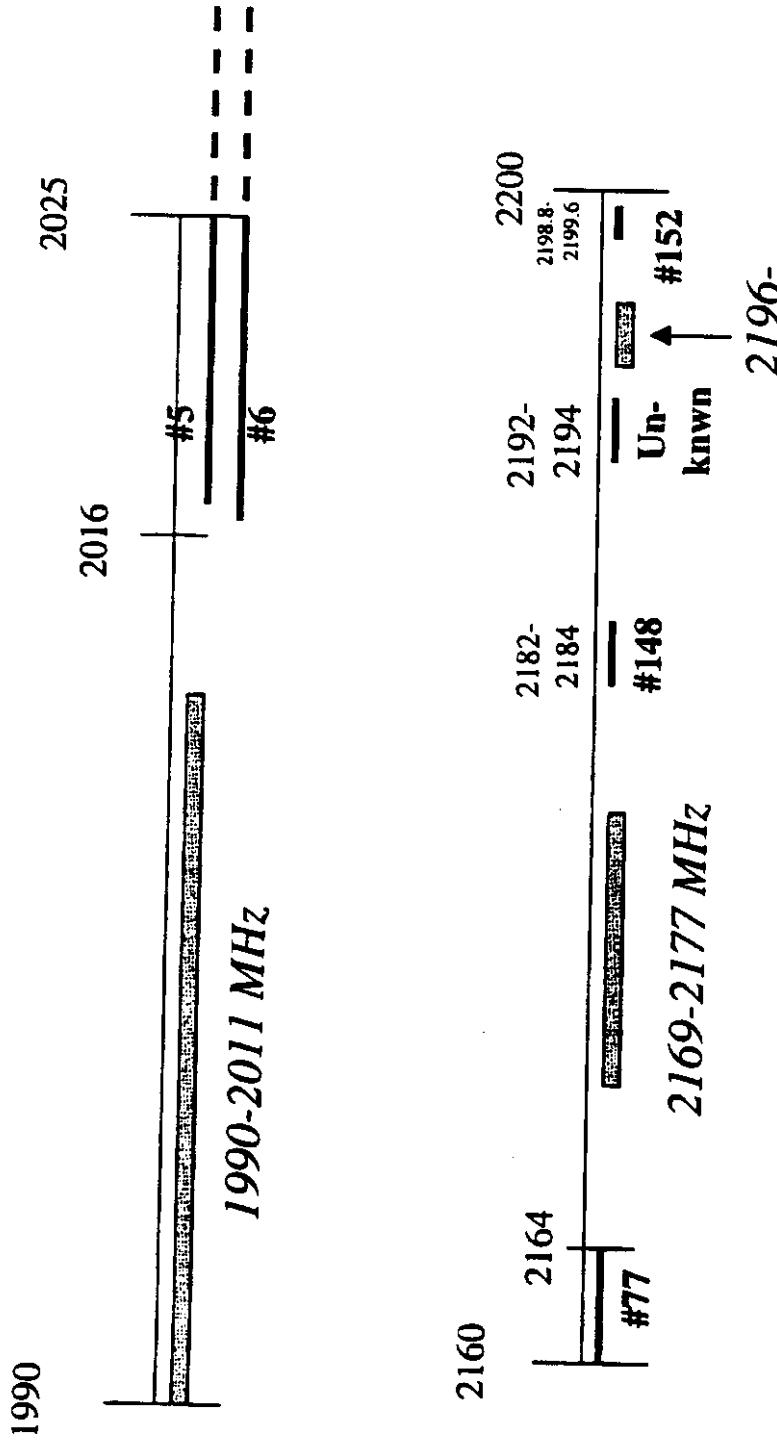
DIRECTION 045°, ELEV. 5°

(MAXIMUM SIGNAL STRENGTH)

FIGURE 1



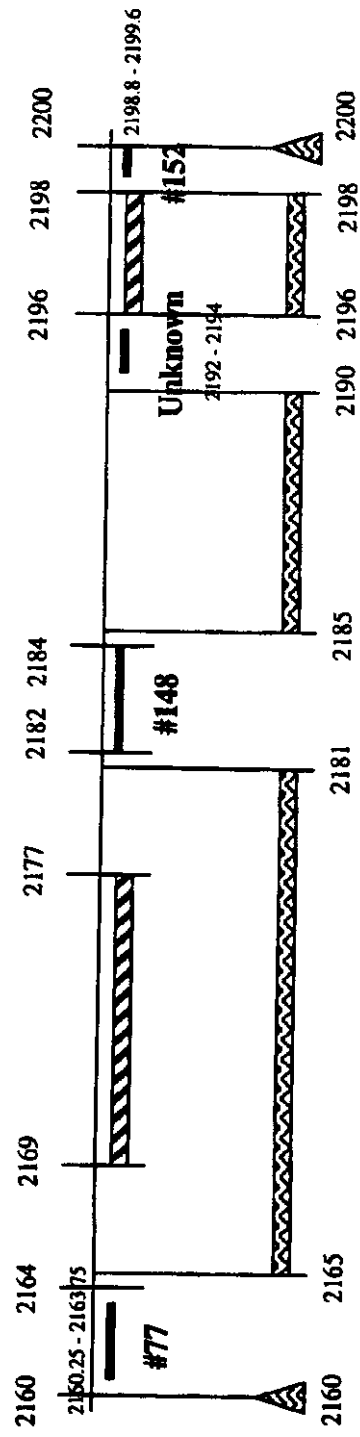
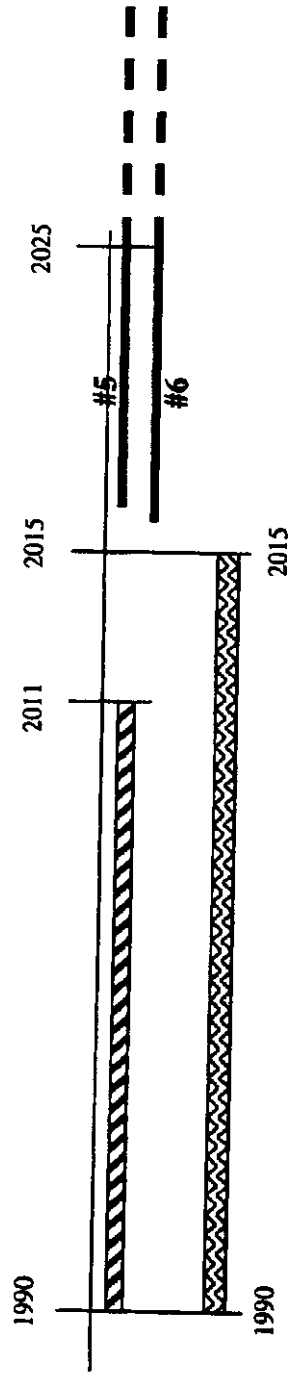
Existing Users in 1990-2025 MHz  
 and 2160-2200 MHz  
 In and Near Prescott, Arizona  
 (Source: ComSearch + Spectrum Scan)  
 Figure 2



**Proposed Motorola Satellite Communications Group  
 Experimental Frequency Range - Prescott, AZ  
 (At Any One Time: Max of 2 CW Signals -  
 Bandwidth ~ 0 MHz)**

**Figure 3**

**Proposed Motorola Satellite Communications Group Experimental Frequency Range**



- Existing licensed frequencies in Prescott, Arizona
- ▨ Existing Motorola Satellite Communications, Inc. experimental license (WA2XRQ)
- ⊘ Requested frequencies to be amended to existing license

**Transmitted signal is a CW tone of approximately 0 bandwidth**