COMMUNICATION SITE

MANAGEMENT PLANS

HUALAPAI PEAK

HAYDEN PEAK

POTATO PATCH

ADDENDUM

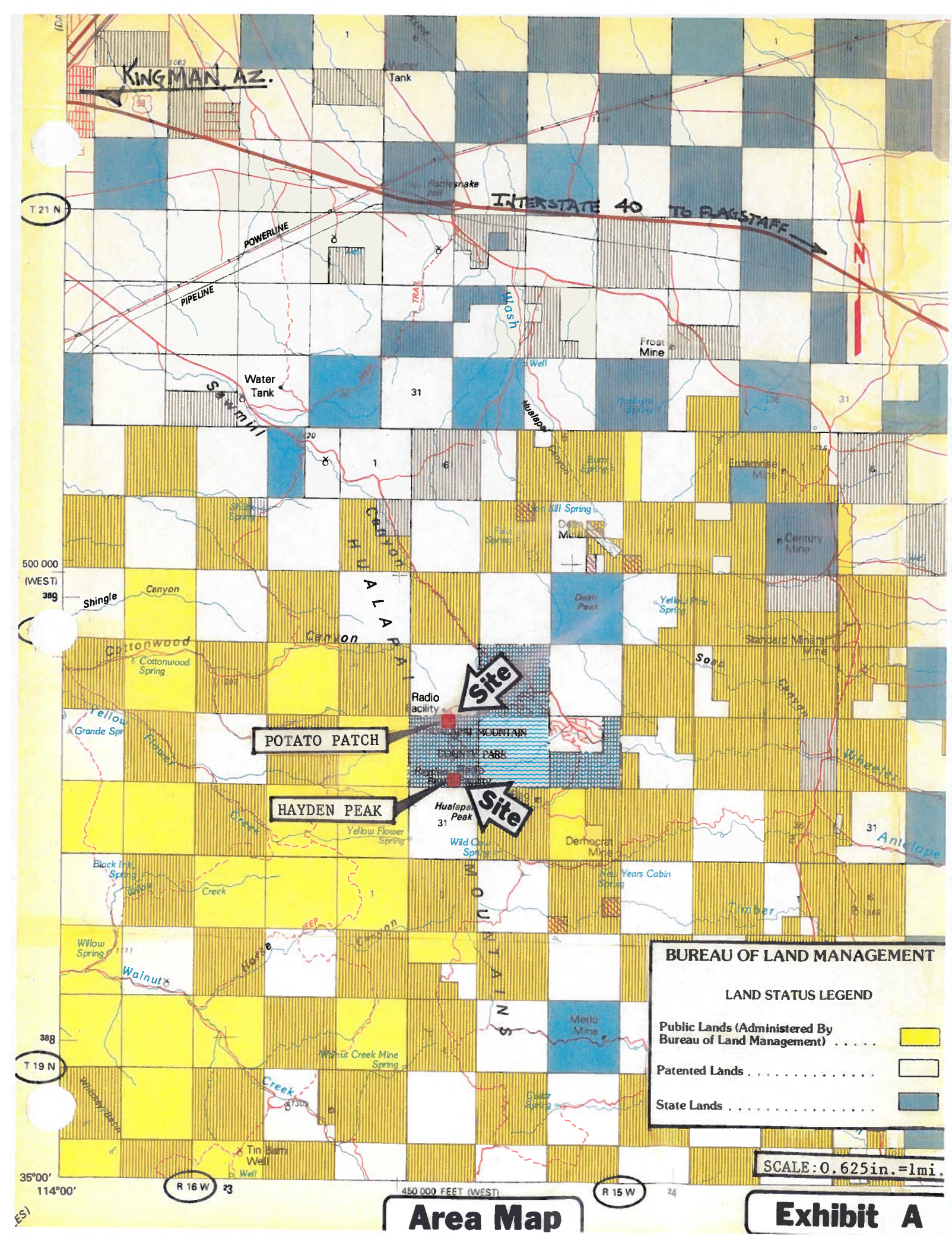
ATTACHMENT 2

EXHIBITS A - F

Exhibits

LIST OF EXHIBITS

Exhibit A



Area Map

Exhibit A

Exhibit B

HAYDEN PEAK USERS

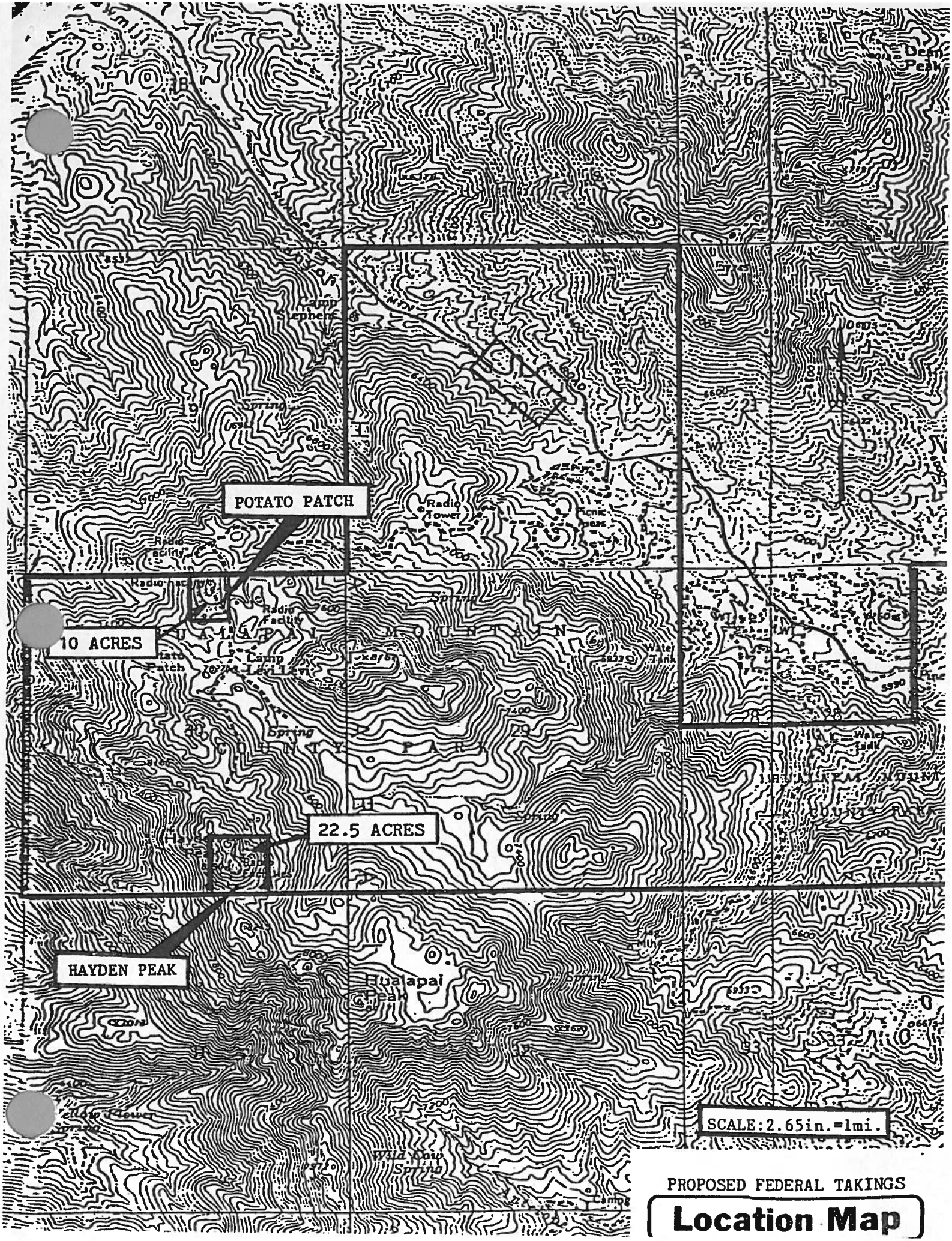
DECEMBER 19, 1984

A G E N D A

- INTRODUCTION OF USERS AND INTERESTED PARTIES.
- SUMMARY OF ACTIONS LEADING TO THE FEDERAL ACQUISITION OF THE SUBJECT COMMUNICATION SITES.
- FEDERAL RIGHT-OF-WAY REGULATIONS AND REQUIREMENTS.
- USE MUST BE COMPATIBLE WITH COUNTY PARK DEVELOPMENT. COUNTY PARKS DIRECTOR INVOLVEMENT.
- DISCUSSION OF EXISTING PROBLEMS, ie. ELECTRONIC INTERFERENCE, ROAD MAINTENANCE, ETC.
- BLM'S MANDATE TO MANAGE COMMUNICATION SITES TO OPTIMUM POTENTIAL WITH THE LEAST AMOUNT OF USER CONFLICTS.
    - DEVELOPMENT OF USER ASSOCIATION
    - DEVELOPMENT OF SITE PLANS
    - SITE MANAGER CONCEPT
- DISCUSSION OF PENDING USER PROPOSALS, ie. FM TRANSMITTERS, FM TRANSLATORS, ETC.
- CLOSE-OUT AND CONCURRENCE FOR NEXT MEETING DATE AND PLACE.

Exhibit B

Exhibit C



PROPOSED FEDERAL TAKINGS

Location Map

POTATO PATCH COMMUNICATION SITE

LOCATION:

T. 20 N., R. 15 W., G&SRM

section 30, NW¼NW¼NE¼.

Comprising 10.0 acres, more or less.

ELEVATION:

7680 feet above sea level.

ACCESS:

County roadway (not maintained).

POWER:

Single phase.

HAYDEN PEAK COMMUNICATION
SITE

LOCATION:

T. 20 N., R. 15 W., G&SRM

section 30, SE¼NW¼SW¼SE¼,
E½SW¼SW¼SE¼, S½NE¼SW¼SE¼,
SE¼SW¼SE¼.

Comprising 22.5 acres, more or less.

ELEVATION:

8390 feet above sea level.

ACCESS:

County roadway (not maintained).

POWER:

Single phase.

POTATO PATCH SITE

TX FREQ. (MHz)	RX FREQ. (MHz)
6645	6845
6665	6825
6585	6705
6785	6745
44.66	44.66
154.905	154.905
154.935	155.190
453.050	458.050
460.225	465.225
460.275	465.275
460.475	465.475
460.500	465.500
	156.090
156.225	151.010
151.460	151.145
463.000	468.000
463.050	468.050
463.075	468.075
463.150	468.150
163.9375	167.4875
153.590	153.590
457.05	452.05
1855.0	1975.0
	1935.0
1915.0	1975.0
452.375	452.375
158.430	158.430

Exhibit C

TX FREQ. (MHz)	RX FREQ. (MHz)
451.325	456.325
160.650	160.650
161.010	161.010
160.335	
	161.460

HAYDEN PEAK SITE

TX FREQ. (MHz)	RX FREQ. (MHz)
47.82	48.38
35.16	35.16
47.74	48.24
45.20	45.20
	39.50
146.760	146.160
152.120	158.580
153.200	158.280
154.355	153.890
155.970	155.970
156.150	155.535
158.310	153.290
159.135	156.045
164.150	164.9375
163.675	162.925
172.950	172.150
413.675	408.300
451.775	456.775
464.400	469.400
464.600	469.600
464.700	469.700
464.850	469.850
CH 50	CH 12
CH 60	CH 58
CH 66	CH 5
CH 68	CH 8
CH 70	CH 12
CH 78	CH 3

TX FREQ. (MHz)	RX FREQ. (MHz)
CH 82	CH 10
2118.8	2168.8
12,530	12,250
12,470	12,230
12,490	12,270
12,510	12,210
12,730	
12,900	
12,775	
12,875	
12,925	
	CH 9
	CH 13
	CH 15
	CH 21
48.74	48.74
1875	1895
1885	1945
1950	1985
169.625	172.775
	167.125
170.075	169.100
417.675	414.325
164.575	164.125
417.275	408.575
164.200	164.725
168.300	168.300
169.225	
419.775	414.975
467.275	462.275

Exhibit D

HUALAPAI MOUNTAIN USERS
ASSOCIATION MEETING

MINUTES OF FEBRUARY 27, 1985

Meeting called to order by Roger G. Taylor, Area Manager, Kingman Resource Area.

Following discussions pertaining to road easement dedications by the County and the Bureau's intent to initiate site management development plans, the motion was introduced to solicit group interest in forming a user association, to be named the Hualapai Mountain Users Association.

Mr. Taylor requested a vote by those present representing six of the seven existing site users on the Hayden Peak and Potato Patch Sites. The vote was carried as follows concerning the user association formation:

DPS - Yes
DOE - Yes
APS - Yes
El Paso - Yes
AT&T - Yes
BLM - (No Vote)
WECOM - Not Present

Upon approval of the motion to form a users association and following a discussion as to the number of officers necessary to assure the functional operation of the association, Mr. Taylor opened the floor to nominations for association President.

Nominations for President:

1. Jim Charters (DOE) nominated Bob Richmond (APS).
   Nomination was seconded by Carl Robinson (AT&T).

2. Bob Richmond (APS) nominated Ken Nelson (DPS).
   Nomination was seconded by Roger Taylor (BLM).

   Bob Richmond was elected President for a 1-year term.

Mr. Richmond assumed the duties of carrying on the business of the day, ie. election of Vice President and Secretary-Treasurer.

Mr. Richmond opened the floor for nominations for Vice-President.

Nominations for Vice-President:

1. Jim Charters (DOE) nominated Carl Robinson (AT&T).

   Harold Wirth (El Paso) seconded the nomination.

   Jim Moffat (DPS) moved that the nominations be closed.
   Ken Nelson (DPS) seconded the motion.

   Carl Robinson was elected as the Vice-President.

Exhibit D

Mr. Richmond opened the floor for the nomination of Secretary-Treasurer.

Nominations for Secretary-Treasurer:

1. Carl Robinson (AT&T) nominated Jim Charters (DOE).
   Ken Nelson (DPS) seconded the nomination.

   Harold Wirth (El Paso) moved that the nominations be closed.
   Ken Nelson (DPS) seconded the motion.

   Jim Charters was elected Secretary-Treasurer.

Mr. Richmond requested comments as to new business to be considered.

Jim Charters (DOE) requested the association consider the formation of two (2) committees.

1. Preparation of Association Constitution and By-Laws.
2. Technical Review.

Carl Robinson (AT&T) recommended that DOE prepare constitution and by-laws. Jim Charters (DOE) agreed and assigned R. C. Ashton (DOE) as the Chairwoman of the Constitution and By-Laws Committee.

Ken Nelson (DPS) recommended that one individual from each site user be a committee representative.

Roll call was taken and the following members assigned to the Constitution and By-Laws Committee:

DOE - R.C. Ashton (Chairwoman)
APS - Ken Dunlap
DPS - Ken Nelson
El Paso - Harold Wirth
AT&T - Carl Robinson
BLM - Mike Thompson
WECOM - To Receive Invitation
Black Mesa - Jim Simpson (Added as a member in good standing by the association).

R. C. Ashton stated that a final draft of the constitution and by-laws should be completed in 3-4 weeks.

Mr. Richmond opened the floor for nominations or a volunteer to chair the Site Technical Review Committee:

Carl Robinson (AT&T) nominated Ken Nelson (DPS) as Chairman.
Mr. Richmond seconded the nomination.
Ken Nelson accepted the nomination.

Roll call was again taken and the following members were assigned to the Site Technical Review Committee:

DPS - Ken Nelson (Chairman)
APS - Terry Chester
DOE - R. C. Ashton
El Paso - Harold Wirth
AT&T - Carl Robinson
BLM - Len Stears, Idaho Falls, ID
WECOM - To Receive Invitation
Black Mesa - Jim Simpson

J. C. Brown (Black Mesa) requested that the by-laws include a provision to make Black Mesa a non-voting member of the association.

Roger Taylor noted that Black Mesa has an agreement to relocate to one of the two communication sites in 5 years. BLM has stated that Black Mesa has a preference right which will be exercised on the Potato Patch site at a later date. Black Mesa has also been a contributor to the county's road maintenance fund.

Mr. Richmond made a motion to accept Black Mesa as a full-fledged member. Ken Nelson seconded the motion. All members voted their approval.

Mr. Richmond stated that the association should secure an interest-free checking account and issue cards to the officers. In addition, the Constitution and By-Laws Committee is to determine road maintenance fee projections for each user depending on their site location, ie. Hayden Peak versus Potato Patch.

Mr. Richmond proposed that annual meetings be scheduled for the month of February. Committee contacts and meetings will, however, commence immediately.

Ken Nelson, Site Technical Committee Chairman, set a committee meeting date of March 6, 1985, in the El Paso Natural Gas Office in Flagstaff. Ken can be reached at 774-4561.

Mr. Richmond closed the meeting stating that an association meeting may be necessary at a later date.

Motion to close was seconded by Carl Robinson (AT&T).

from local government people that cars were being sold...and maneuvers were being made to skip the (city's) 2 percent tax" on vehicles sold within city limits, Smith said.

The approximation of unpaid city taxes from local car dealers has been revised downward for "a number of reasons," Smith said, adding he could not elaborate [illegible] department's auditing methods because it would [illegible] which businesses were being audited.

[illegible] said there was no single reason for the estimate reduction, but added that after some investigation, it was determined that many of the suspect car-sales transactions were handled properly as far as sales taxes were concerned.

Smith said the department does not consider the unpaid taxes to be a form of tax evasion because in some cases, the businesses may have thought it was alright not to pay the entire 2 percent city sales tax.

"There may not necessarily been intent to evade the [illegible] had to double-check the odometer.

"If a car had been picked up in a city outside of Kingman or in an unincorporated area, we would make an allowance of 40 miles.

"If it was over 40 miles," he said, "It could have been purchased and driven there. If it was under 40 miles, it (was probably) delivered there."

According to state and city officials, the revenue department's auditing may have been made more complicated because state and city sales tax laws differed slightly with regard to out-of-state transactions on orders placed in Kingman.

City Attorney Jim Chavez said that before a January change in the city's ordinance, cars ordered in Kingman but delivered in another state were subject to city sales tax but not to the state tax.

"We were not consistent with the state laws," Chavez

• Taxes — Page 2

Finally hon

U.S. Air force Maj. Ge commander-in-chief c accepts an Americar Hawaii, from Air Forc

Safety of high-power transmitters on peaks questioned at hearing

Some operators of low-power radio transmitters in the Hualapai Mountains claim the addition of high-power transmitters there could threaten the lives of powerline workers and public-safety officers.

The U.S. Bureau of Land [illegible]agement held a public meet- Tuesday night to hear the public's views on the possible placement of high-power transmitters on peaks in Hualapais.

Mohave County relinquished 32.5 acres in the Hualapais to BLM on Aug. 24. The federal agency requested in April 1984 that the county relinquish the two sites because of violations of a federal patent that stipulated uses be limited to recreation and municipal purposes.

Several of the uses were deemed by BLM to be for commercial purposes.

Now that BLM has taken over the sites, they will be opened to multiple uses, meaning high-power tansmitters could be permitted, said Roger Taylor, area manager for BLM's Kingman resource area office.

BLM officials told about 35 people at Tuesday's meeting that high-power FM uses might be approved for the sites in the future. Presently, only low-power [illegible]itters are on the two sites.

[illegible]he 22.5 acre Hayden Peak, transmitters and relays are being operated by the U.S. Department of Energy, El Paso Natural Gas Co., Western Electronics & Communications and BLM.

The Arizona Department of Public Safety, Arizona Public Service Co. and American Telephone & Telegraph Co. operate transmitters at the 10-acre Potato Patch site.

Mike Thompson, a realty specialist for BLM's Kingman office, told the group that the federal agency now has begun to accept applications for new transmitters and relays on the sites.

That is a matter of concern to some operators of low-power facilities because their signals could be drowned out by high-power FM transmitters.

"We're very concerned about this," said James H. Charters, director of communications and control for the Western Area Power Administration. The administration operates a microwave transmitter for Arizona Public Service linemen who need two-way communications for repair purposes.

The lives of workmen could be placed in jeapardy because of interference from FM transmitters, Charters said.

— By Emil Venere

$200,00 hospit

Temporary facility housing

By EMIL VENERE
Miner Staff Writer

Kingman Hospital Inc. officials are planning to construct a $200,000, 3,500-square-foot addition to Kingman Regional Hospital's now-cramped X-ray department.

The KHI executive board of directors on Tuesday unanimously voted to direct its policy and planning committee to work with its building and grounds panel in developing a plan for the addition. Officials said they hoped the plan would be ready for review by the next executive board meeting on March 26.

KHI President Don Logue said the expansion is needed for two major reasons.

The first, he said, is that the city of Kingman has notified KHI that a temporary building now housing a new computerized tomography (CT) scanner falls short of the city's building code requirements.

Also, the hospital plans to purchase additional X-ray equipment this year and a larger department would be needed to house the machines.

Dr. Arthur Arnold, a long-time Kingman physician and a member of the executive board, suggested that the hospital build the addition. He estimated construction costs for the proposed 50-by-70-foot building at from $50 to $55 a square foot.

It would extend east of the hospital's eastern wing, where the X-ray department presently is housed. Equipment presently sits in hallways of the cramped department.

A portion of the addi cost, estimated at less th would be funded throu million in left-over inc velopment bonds KHI year, Logue said.

Including the new equi plans to purchase, the represents a "million- vestment," said H.I. chairman of KHI's pla policy committee.

Logue said the hospita buy about $800,000 in equipment to repla machines.

"It's old, it's breakir said Dr. Earl Gilbert, radiologist and former h hospital's radiology depar

Meanwhile, the city waiting more than two the building's design. Burns, a Kingman build Burns said the temporar — a mobile home — w adjacent to the east w hospital on Dec. 13 to ho scanner. The scanner, b be the only such device County, takes detaile cross-sections of the hum pinpointing tumors and The nearly $700,000 sca been in operation for a weeks.

Burns said KHI officials December to have the bui completed within 30 days also agreed to comp permanent building wi months, he said.

Exhibit E

ARIZONA DEPARTMENT OF PUBLIC SAFETY

NORTH 20th AVENUE P. O. BOX 6638 PHOENIX, ARIZONA 85005 (602) 262-8011

BRUCE BABBITT
GOVERNOR

RALPH T. MILSTEAD
DIRECTOR

April 11, 1985

Mr. Roger G. Taylor, Area Manager
Bureau of Land Management, Kingman Resource Area
2475 Beverly Avenue
Kingman, AZ 86401

Re: HUALAPAI MOUNTAIN COMMUNICATIONS SITE TECHNICAL STANDARDS

Dear Mr. Taylor:

The Technical Standards Committee of the Hualapai Mountain Users' Association would like to submit for your approval the attached, Site Technical Standards, for the Hualapai Mountain Radio Sites. The implementation of the technical standards as they apply to the existing and new site users will be covered in the Association By-Laws.

The Committee feels that the adoption of the Technical Standards will allow for the orderly growth and management of the existing Hualapai Mountain communications sites.

Respectfully submitted,

HUALAPAI MOUNTAIN USERS' ASSOCIATION
TECHNICAL STANDARDS COMMITTEE

Ken Nelson, Chairman

Harold Wirth

R. C. Ashton

Jack Trahan

Terry O. Chester

L. J. Simpson

KN:JB

Exhibit E

PROPOSED

TECHNICAL STANDARDS

for the

HUALAPAI MOUNTAIN COMMUNICATIONS

SITES - "POTATO PATCH and HAYDEN PEAK"

TRANSMITTERS

A. All transmitters will be FCC Type/Accepted or meet Type Acceptance Criteria.

B. All transmitters will have protective devices, designed into or externally installed, to prevent interference to other users.

1. Direct radiation of out-of-band emissions (i.e. transmitter wide-band noise, spurious emissions, harmonics) shall be reduced to a non-interfering level by the use of band-pass, low-pass or harmonic filtering. Band-reject filtering may be required in special applications.

2. Re-radiation of signals (intermod) from a transmitter and its associated antenna system will be prevented through the installation of appropriate devices (i.e. ferrite isolators), with a minimum return loss of 25dB.

C. Transmitter power output shall not exceed 120 watts. The Effective Radiated Power (ERP) will not exceed 1,200 watts. Microwave point-to-point systems excluded from this requirement.

RECEIVERS

A. All receivers must comply with all applicable parts of FCC Rules, including Parts 2 and 15.

B. All receivers shall have sufficient "front end" preselection to prevent receiver spurious response. The use of band-pass, band-reject cavities or crystal filters may be required to prevent receiver-produced intermodulation or adjacent channel interference.

ANTENNAS, FEEDLINES AND SUPPORT STRUCTURES

A. All antennas and transmission lines, including those not in immediate use, will be terminated in their characteristic impedance (Z°) to prevent re-radiation of intercepted signals or noise.

B. All coaxial transmission lines will be double braided or solid shielded and jacketed.

C. All towers shall meet EIA Standard RS-222-C, Structural Standards for Steel Antenna Towers.

D. All tower construction shall meet manufacturers recommended specifications for ice and wind loading for this area.

E. All metallic structural materials shall be galvanized, plated, or coated. Dissimilar metals will not be placed in contact with each other in such a manner that could create a galvanic junction.

F. Anti-climb devices, removable steps, or other means to discourage unauthorized climbing of the towers are highly recommended.

ELECTRICAL

A. All electrical facilities, equipment, and their installation shall conform to the latest edition of the "National Electric Code", and local laws and regulations.

B. All permanent AC wiring shall be installed in metallic conduit.

BUILDINGS

A. All buildings and structures shall, at the time of construction, conform to the latest edition of the "Uniform Building Code", and local laws and regulations.

B. All metallic materials used in building construction shall be galvanized, plated or coated. Dissimilar metals will not be placed in contact with each other in such a manner that could create a galvanic junction.

C. Buildings shall be designed and installed to withstand severe weather conditions.

SITE AND EQUIPMENT GROUNDING

All equipment racks and cabinets controlled by each primary user shall be bonded to a common ground system for his site. This ground system will also maintain a common bond for external equipment (i.e. generator, LPG tanks, tower, etc.).

MISCELLANEOUS EQUIPMENT

Any miscellaneous equipment that could cause harmful interference shall be adequately shielded.

HOUSEKEEPING

Housekeeping has environmental, visual and aesthetic impact, it further has an electromagnetic compatibility impact. Debris which is permitted to remain adrift, and the residue of construction, installation, removal, modification, or other evolutions, raises the noise "floor" for all users and gives rise to intermodulation potential which often defies identification. No debris will be allowed to accumulate.

Exhibit F

APPLICATION TO MODIFY
FM CONSTRUCTION PERMIT BPH830907AF

KZZZ

Mohave Sun Broadcasting

94.7 MHz CHANNEL 234 C
Kingman, Arizona

February 1985

Ellis & Wiebe, PC, 1010 S Joliet Suite 204 Aurora CO 80012 (303)367-1626

Exhibit F

PROPOSED FM
Mohave Sun Broadcasting
94.7 MHz CHANNEL 234 C
Kingman, Arizona
February 1985

APPLICATION TO MODIFY
FM CONSTRUCTION PERMIT BPH830907AF

TABLE OF CONTENTS

Ellis & Wiebe, PC, 1010 S Joliet Suite 204 Aurora CO 80012 (303)367-1626

Section V-B — **FM Broadcast Engineering Data**

Name of Applicant: Mohave Sun Broadcasting

1. Purpose of authorization applied for:

☐ Construct a new station

☐ Install Auxiliary system

Change:

☒ Effective radiated power

☐ Frequency

☒ Antenna height above average terrain

☒ Transmitter location

☐ Studio location outside community of license

☐ Other *(Summarize briefly the nature of the changes proposed.)*

2. Station location:

State: AZ

City or Town: Kingman

3. Facilities requested:

Frequency: 94.7 MHz

Channel No.: 234

Class (Check one below): ☐ A ☐ B ☒ C

4. Geographic coordinates of antenna (to nearest second)

North Latitude: 35° 04' 52"

West Longitude: 113° 54' 13"

5. Effective radiated power:

Polarization	Horizontal Plane	Maximum (Beam tilt only)
Horizontal	25.226 kW	dna kW
Vertical	25.226 kW	dna kW

6. Height of antenna radiation center:

	Antenna height above: Average terrain (HAAT)	Mean Sea Level	Ground
Horizontal	3640.48 ft.	8502 ft.	122 ft.
Vertical	3640.48 ft.	8502 ft.	122 ft.

7. Is a directional antenna being proposed?

YES ☐ NO ☒

If Yes, attach as Exhibit No. dna an engineering statement with all data specified in Section 73.316(d) of the Commission's Rules.

8. Transmitter location:

State AZ County Mohave

City or Town Kingman Street Address *(or other identification)* Hayden Peak

9. Overall height of complete structure above ground *(without obstruction lighting).* 138 ft.

10. Attach as Exhibit No. 950 map(s) *(Sectional Aeronautical charts or equivalent)* of the area proposed to be served and show thereon:

(a) Proposed transmitter location and the radials along which the profile graphs have been prepared;

(b) The 3.16 mV/m and the 1 mV/m contours predicted;

(c) On the map(s) showing 3.16 mV/m contour, clearly indicate the legal boundaries of the principal community proposed to be served;

(d) Area (sq. mi.) and population (latest census) within 1 mV/m contour;

(e) Scale of miles.

11. Will the proposed 3.16 mV/m contour completely encompass the principal community, without major terrain obstruction? YES ☒ NO ☐

If No, please submit justifications.

12. If the main studio will not be within the boundaries of the principal community to be served, attach as Exhibit No. dna a justification pursuant to Section 73.1125 of the Commission's Rules.

13. Attach as Exhibit No. 900 map(s) *(7.5 minute U.S. Geographic Survey topographic quadrangles if available)* of the proposed antenna location showing the following information:

(a) Proposed transmitter location accurately plotted with the latitude the longitude lines clearly marked and showing a scale of statute lines.

(b) Transmitter location and call letters of all AM broadcast stations within 2 miles of the proposed antenna location.

14. If there are any FM or TV stations within 200 feet of proposed antenna or non-broadcast radio stations *(except amateur & citizens band)*, established commercial and government receiving stations in the general vicinity which may be adversely affected by the proposed operation, attach as Exhibit No. 280-290 the expected effect, a description of remedial steps that may be pursued if necessary, and a statement from the applicant accepting full responsibility for the elimination of any objectionable effect on existing stations.

15. Tabulation of Terrain Data. *(Calculated in accordance with the procedure prescribed in Section 73.313 of the Commission's Rules utilizing 7-1/2 minute topographic maps, if available).*

Radial bearing *(degrees true)*	Height of antenna, radiation center above average elevation of radial (2-10 mi) Feet	Predicted Distance To the 3.16 mV/m contour Miles	Predicted Distance To the 1 mV/m contour Miles
0°	See Exhibit 220		
45°			
90°			
135°			
180°			
225°			
270°			
315°			
(•)			

(•) Radial over principal community if not included above. Do not include in Average.

16. Environmental Statement, See Part I, Subpart 1 of the Commission's Rules.

Would a Commission grant of this application be a major action as defined by Section 1.1305 of the Commission's Rules? ☐ YES ☒ NO

If Yes, attach as Exhibit No. ____ a narrative statement in accordance with Section 1.1311 of the Commission's Rules.

If No, explain briefly. The proposed site is an established "antenna farm" Section 1.1305(b)(1)

I certify that I represent the applicant in the capacity indicated below and that I have examined the foregoing statement of technical information and that it is true to the best of my knowledge and belief.

Michael Wiebe, P.E.
Name

February 25, 1985
Date

Michael Wiebe, P.E.
Signature *(check appropriate box below)*

1010 South Joliet Suite 204
Address *(include ZIP Code)*

Aurora CO 80012

(303) 367-1626
Telephone No. *(include Area Code)*

☐ Technical Director ☒ Registered Professional Engineer ☐ Chief Operator

☐ Technical Consultant ☐ Other *(Specify)*

ANTENNA AND SITE INFORMATION

Name of Applicant	Call Sign	Station Location
Mohave Sun Broadcasting	KZZZ	Kingman AZ

Purpose of Application (Put "X" in appropriate box)

- ☐ New antenna construction
- ☐ Alteration of existing antenna structure
- ☒ Change in location

Facilities Requested

94.7 MHz (Channel 234C), 25.226 kW

1. **Location of Antenna:**

State	County	City or Town
AZ	Mohave	Kingman

Exact antenna location (street address). If outside city limits, give name of nearest town and distance and direction of antenna from town.

Hayden Peak (10.5 miles SE of Kingman)

Geographical coordinates (to nearest second). For directional antenna give coordinates of center of array. For single vertical radiator give tower location.

North Latitude 35 ° 04 ' 52 " West Longitude 113 ° 54 ' 13 "

2. Is the proposed site the same transmitter-antenna site of other stations authorized by the Commission or specified in another application pending before the Commission? ☒ YES ☐ NO

If Yes, give call sign: See Exhibit 290

3. Has the FAA been notified of proposed construction? February 25, 1985 ☒ YES ☐ NO
If Yes, give date and office where notice was filed. Hawthorne CA

4. List all landing areas within 5 miles of antenna site. Give distance and direction to the nearest boundary of each landing area from the antenna site. none

	Landing Area	Distance	Direction
(a)			
(b)			
(c)			

5. Attach as Exhibit No. 930 a description of the antenna system, including whether tower(s) are self-supporting or guyed. If a directional antenna, give spacing and orientation of towers.

Self supporting steel tower with top pole mounted 3 element FM antenna

Tower	#1	#2	#3	#4	#5	#6
Overall height above ground (include obstruction lighting)	138'					
Overall height above mean sea level (include obstruction lighting)	8518'					

6. Attach as Exhibit No. 930 a vertical plan sketch for the proposed total structure (including supporting building, if any) giving heights above ground in feet for all significant features. Clearly indicate existing portions, noting lighting, and distinguish between the skeletal or other main supporting structure and the antenna elements.

I certify that I represent the applicant in the capacity indicated below and that I have examined the foregoing statement of technical information and that it is true to the best of my knowledge and belief.

Michael Wiebe, P.E.
Name

(303) 367-1626
Telephone (include area code)

Michael Wiebe, P.E.
Signature (check appropriate box below)

February 25, 1985
Date

☐ Technical Director ☒ Registered Professional Engineer ☐ Chief Operator ☐ Technical Consultant

DO NOT REMOVE CARBONS

Form Approved O.M.B. No. 04-R0001

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

NOTICE OF PROPOSED CONSTRUCTION OR ALTERATION

FOR FAA USE ONLY

AERONAUTICAL STUDY NO.

FAA will either return this form or issue a separate acknowledgement.

A. The proposed structure:
- ☐ Does not require a notice to FAA.
- ☐ Would not exceed any obstruction standard of Part 77 and would not be a hazard to air navigation.
- ☐ Should be obstruction ☐ marked ☐ lighted per FAA Advisory Circular 70/7460-1, Change(s) _____
- ☐ Obstruction marking and lighting are not necessary.
- ☐ Requires supplemental notice. Use FAA form enclosed.

B. FCC ☐ was ☐ was not advised.

REMARKS:

ISSUING OFFICE:

REVIEWING OFFICER | DATE

1. NATURE OF STRUCTURE

A. TYPE	B. CLASS	C. PROPOSED LENGTH OF TIME TO COMPLETE (Months)
[X] NEW CONSTRUCTION ☐ ALTERATION	[X] PERMANENT ☐ TEMPORARY	3

2. NAME AND ADDRESS OF INDIVIDUAL, COMPANY, CORPORATION, ETC. PROPOSING THE CONSTRUCTION OR ALTERATION (Number, Street, City, State and Zip Code)

TO
Mohave Sun Broadcasting
c/o Ellis & Wiebe, P.C.
1010 South Joliet Suite 204
Aurora CO 80012

3. COMPLETE DESCRIPTION OF STRUCTURE (Include effective radiated power of proposed or modified AM, FM or TV station and assigned frequency; size and configuration of power transmission line in vicinity of FAA facilities as appropriate).

110' self supporting tower with pole mounted FM antenna (overall height 138' AGL) operating on 94.7 MHz with ERP of 25.266 kW.

4. LOCATION OF STRUCTURE

A. COORDINATES (To nearest second) LATITUDE			LONGITUDE			B. NEAREST CITY OR TOWN, AND STATE		
°	'	"	°	'	"	Kingman AZ		
35	04	52	113	54	13	(1) DISTANCE FROM 4B: 10.5 MILES	(2) DIRECTION FROM 4B: SE	

C. NAME OF NEAREST AIRPORT, HELIPORT, OR SEAPLANE BASE	(1) DISTANCE FROM NEAREST POINT OF NEAREST RUNWAY	(2) DIRECTION FROM AIRPORT
Kingman	12.7 m	170°T

D. DESCRIPTION OF LOCATION OF SITE WITH RESPECT TO HIGHWAYS, STREETS, AIRPORTS, PROMINENT TERRAIN FEATURES, EXISTING STRUCTURES, ETC. (Attach a highway, street, or any other appropriate map or scaled drawing showing the relationship of construction site to nearest airport(s). If more space is required, continue on a separate sheet of paper and attach to this notice.)

Hayden Peak Electronics Site

5. HEIGHT AND ELEVATION (Complete A, B and C to the nearest foot)

		6. WORK SCHEDULE DATES
A. ELEVATION OF SITE ABOVE MEAN SEA LEVEL	8380	A. BEGINNING: FCC Grant
B. HEIGHT OF STRUCTURE INCLUDING APPURTENANCES AND LIGHTING (if any) ABOVE GROUND, OR WATER IF SO SITUATED	138	B. END: 90 days
C. OVERALL HEIGHT ABOVE MEAN SEA LEVEL (A + B)	8518	

7. OBSTRUCTION MARKED AND/OR LIGHTED IN ACCORDANCE WITH CURRENT FAA ADVISORY CIRCULAR 70/7460-1, OBSTRUCTION MARKING AND LIGHTING

	YES	NO
A. MARKED		X
B. AVIATION RED OBSTRUCTION LIGHTS		X
C. HIGH INTENSITY WHITE OBSTRUCTION LIGHTS		X
D. DUAL LIGHTING SYSTEM		X

I HEREBY CERTIFY that all of the above statements made by me are true, complete, and correct to the best of my knowledge.

DATE	TEL. NO. (Give area code)	TYPED NAME/TITLE OF PERSON FILING NOTICE	SIGNATURE
2/25/85	(303)367-1626	Michael Wiebe, P.E.	Michael Wiebe, P.E.

Notice is required by Part 77 of the Federal Aviation Regulations (14 C.F.R. Part 77) pursuant to Section 1101 of the Federal Aviation Act of 1958, as amended (49 U.S.C. 1101). Persons who knowingly and willfully violate the Notice requirements of Part 77 are subject to a fine (criminal penalty) of not more than $500 for the first offense and not more than $2,000 for subsequent offenses, pursuant to Section 902(a) of the Federal Aviation Act of 1958, as amended (49 U.S.C. 1472(a)).

STANDARD FORM 299(11–83)
Prescribed by DOI/USDA/DOT
P.L. 96–487 and Federal
[illegible]ter Notice 6–3–81

APPLICATION FOR TRANSPORTATION AND UTILITY SYSTEMS AND FACILITIES ON FEDERAL LANDS

FORM APPROVED
OMB NO. 1004–0060
Expires: May 31, 1986

NOTE: Before completing and filing the application, the applicant should completely review this package and schedule a preapplication meeting with representatives of the agency responsible for processing the application. Each agency may have specific and unique requirements to be met in preparing and processing the application. Many times, with the help of the agency representative, the application can be completed at the preapplication meeting.

FOR AGENCY USE ONLY
Application Number
Date filed

1. Name and address of applicant *(include zip code)*
Art Brooks
Mohave Sun Broadcasting
Box 3939
Kingman AZ 86401

2. Name, title, and address of authorized agent if different from Item 1 *(include zip code)*

3. TELEPHONE *(area code)*
Applicant
(602) 753-2537
Authorized Agent

4. As applicant are you? *(check one)*
a. [ ] Individual
b. [ ] Corporation *
c. [X] Partnership/Association *
d. [ ] State Government/State Agency
e. [ ] Local Government
f. [ ] Federal Agency
* *If checked, complete supplemental page*

5. Specify what application is for: *(check one)*
a. [X] New authorization
b. [ ] Renew existing authorization No. _____.
c. [ ] Amend existing authorization No. _____.
d. [ ] Assign existing authorization No. _____.
e. [ ] Existing use for which no authorization has been received *
f. [ ] Other *
* *If checked, provide details under Item 7*

6. If an individual, or partnership are you a citizen(s) of the United States? [X] Yes [ ] No

7. Project description *(describe in detail)*: (a) Type of system or facility, *(e.g., canal, pipeline, road)*; (b) related structures and facilities; (c) physical specifications *(length, width, grading, etc.)*; (d) term of years needed; (e) time of year of use or operation; (f) Volume or amount of product to be transported; (g) duration and timing of construction; and (h) temporary work areas needed for construction. *(Attach additional sheets, if additional space is needed.)*

(a) self supporting steel tower with FM antenna
(b) transmitter building
(c) tower 138' AGL overall height
(d) permanent
(e) fulltime use year round
(f) dna
(g) 90 days, upon grant of FCC construction permit
(h) none

8. Attach map covering area and show location of project proposal Exhibit 900

9. State or local government approval: [ ] Attached [ ] Applied for [X] Not required

10. Nonreturnable application fee: [X] Attached [ ] Not required

11. Does project cross international boundary or affect international waterways? [ ] Yes [X] No *(If "yes," indicate on map)*

12. Give statement of your technical and financial capability to construct, operate, maintain, and terminate system for which authorization is being requested.

Mohave Sun Broadcasting is the licensee of KAAA(AM) and KZZZ(FM) radio station and has full technical qualifications and finalcial capability to construct, operate and maintain the system requested.

(Continued on reverse)

13a. Describe other reasonable alternative routes and modes considered.

Other transmitter sites considered: Radar Hill, Union Pass area, Potato Patch electronics site.

b. Why were these alternatives not selected?

-Radar Hill does not provide adequate elevation to meet FCC minimum height for Class C FM station
-Commercial power not available at Union Pass areas considered
-Potato Patch site already has existing 120' tower; 50' required vertical clearance would have necessitated 225' self supporting tower.

c. Give explanation as to why it is necessary to cross Federal lands.

This site is an established electronics site with commercial power available.

14. List authorizations and pending applications filed for similar projects which may provide information to the authorizing agency. *(Specify number, date, code, or name.)*

dna

15. Provide statement of need for project, including the economic feasibility and items such as: (a) cost of proposal *(construction, operation, and maintenance)*; (b) estimated cost of next best alternative; and (c) expected public benefits.

(a) estimated cost (Tower only): $36,000
(b) estimated cost of alternative (Tower only): $90,000
(c) The public will benefit from improved radio service in the Kingman area.

Describe probable effects on the population in the area, including the social and economic aspects, and the rural lifestyles.

-no probable impact

17. Describe likely environmental effects that the proposed project will have on: (a) air quality; (b) visual impact; (c) surface and ground water quality and quantity; (d) the control or structural change on any stream or other body of water; (e) existing noise levels; and (f) the surface of the land, including vegetation, permafrost, soil, and soil stability.

(a) none
(b) minimal due to remote location
(c) none
(d) none
(e) none
(f) none

18. Describe the probable effects that the proposed project will have on: (a) populations of fish, plant, wildlife, and marine life, including threatened and endangered species; and (b) marine mammals, including hunting, capturing, collecting, or killing these animals.

(a) none
(b) none

19. Name all the Department(s)/Agency(ies) where this application is being filed.

Federal Communications Commission
Federal Aviation Administration

I HEREBY CERTIFY, That I am of legal age and authorized to do business in the State and that I have personally examined the information contained in the application and believe that the information submitted is correct to the best of my knowledge.

Signature of Applicant

Date
2/25/85

Title 18, U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious, or fraudulent statements or representations as to any matter within its jurisdiction.

APPLICATION FOR TRANSPORTATION AND UTILITY SYSTEMS AND FACILITIES ON FEDERAL LANDS

GENERAL INFORMATION
ALASKA NATIONAL INTEREST LANDS

This application will be used when applying for a right-of-way, permit, license, lease, or certificate for the use of Federal lands which lie within conservation system units and National Recreation or Conservation Areas as defined in the Alaska National Interest Lands Conservation Act. Conservation system units include the National Park System, National Wildlife Refuge System, National Wild and Scenic Rivers System, National Trails System, National Wilderness Preservation System, and National Forest Monuments.

Transportation and utility systems and facility uses for which the application may be used are:

1. Canals, ditches, flumes, laterals, pipes, pipelines, tunnels, and other systems for the transportation of water.

2. Pipelines and other systems for the transportation of liquids other than water, including oil, natural gas, synthetic liquid and gaseous fuels, and any refined product produced therefrom.

3. Pipelines, slurry and emulsion systems, and conveyor belts for transportation of solid materials.

4. Systems for the transmission and distribution of electric energy.

5. Systems for transmission or reception of radio, television, telephone, telegraph, and other electronic signals, and other means of communications.

6. Improved rights-of-way for snow machines, air cushion vehicles, and all-terrain vehicles.

7. Roads, highways, railroads, tunnels, tramways, airports, landing strips, docks, and other systems of general transportation.

This application *must* be filed simultaneously with each Federal department or agency requiring authorization to establish and operate your proposal.

In Alaska, the following agencies will help the applicant file an application and identify the other agencies the applicant should contact and possibly file with:

Department of Agriculture
Regional Forester, Forest Service (USFS)
Federal Office Building, P.O. Box 1628
Juneau, Alaska 99802
Telephone: (907) 588–7247 *(or a local Forest Service Office)*

Department of Interior
Bureau of Indian Affairs (BIA)
Juneau Area Office, P.O. Box 3–8000
Juneau, Alaska 99802
Telephone: (907) 586–7209

Bureau of Land Management (BLM)
701 C Street, Box 13
Anchorage, Alaska 99513
Telephone: (907) 271–5055 *(or a local BLM Office)*

National Park Service (NPS)
Alaska Regional Office, 540 West 5th Avenue, Room 202
Anchorage, Alaska 99501
Telephone: (907) 271–4196

U.S. Fish & Wildlife Service (FWS)
Office of the Regional Director
1011 East Tudor Road
Anchorage, Alaska 99503
Telephone: (907) 276–3800

Note-Filings with any Interior agency may be filed with any office noted above or with the: Office of the Secretary of the Interior, Regional Environmental Officer, Box 120, 1675 C Street, Anchorage, Alaska 99513.

Department of Transportation
Federal Aviation Administration
Alaska Region AAL–4, P.O. 14
Anchorage, Alaska 99513

NOTE – The Department of Transportation has established the above central filing point for agencies within that Department. Affected agencies are: Federal Aviation Administration (FAA), Coast Guard (USCG), Federal Highway Administration (FHWA), Federal Railroad Administration (FRA).

OTHER THAN ALASKA NATIONAL INTEREST LANDS

Use of this form is not limited to National Interest Conservation Lands of Alaska.

Individual departments/agencies may authorize the use of this form by applicants for transportation and utility systems and facilities on other Federal lands outside those areas described above.

For proposals located outside of Alaska, applications will be filed at the local agency office or at a location specified by the responsible Federal agency.

SPECIFIC INSTRUCTIONS
(Items not listed are self-explanatory)

Item

7 Attach preliminary site and facility construction plans. The responsible agency will provide instructions whenever specific plans are required.

8 Generally, the map *must* show the section(s), township(s), and range(s) within which the project is to be located. Show the proposed location of the project on the map as accurately as possible. Some agencies require detailed survey maps. The responsible agency will provide additional instructions.

9, 10, and 12 – The responsible agency will provide additional instructions.

13 Providing information on alternate routes and modes in as much detail as possible, discussing why certain routes or modes were rejected and why it is necessary to cross Federal lands will assist the agency(ies) in processing your application and reaching a final decision. Include only reasonable alternate routes and modes as related to current technology and economics.

14 The responsible agency will provide instructions.

15 Generally, a simple statement of the purpose of the proposal will be sufficient. However, major proposals located in critical or sensitive areas may require a full analysis with additional specific information. The responsible agency will provide additional instructions.

16 through 18 – Providing this information in as much detail as possible will assist the Federal agency(ies) in processing the application and reaching a decision. When completing these items, you should use sound judgment in furnishing relevant information. For example, if the project is not near a stream or other body of water, *do not* address this subject. The responsible agency will provide additional instructions.

Application *must* be signed by the applicant or applicant's authorized representative.

If additional space is needed to complete any item, please put the information on a separate sheet of paper and identify it as "Continuation of Item".

(For supplemental, see reverse)

SUPPLEMENTAL

E: The responsible agency(ies) will provide additional instructions.

	CHECK APPROPRIATE BLOCK	
I – PRIVATE CORPORATIONS	ATTACHED	FILED*
a. Articles of Incorporation	☐	☐
b. Corporation Bylaws	☐	☐
c. A certification from the State showing the corporation is in good standing and is entitled to operate within the State.	☐	☐
d. Copy of resolution authorizing filing	☐	☐
e. The name and address of each shareholder owning 3 percent or more of the shares, together with the number and percentage of any class of voting shares of the entity which such shareholder is authorized to vote and the name and address of each affiliate of the entity together with, in the case of an affiliate controlled by the entity, the number of shares and the percentage of any class of votlng stock of that affiliate owned, directly or indirectly, by that entity, and in the case of an affiliate which controls that entity, the number of shares and the percentage of any class of voting stock of that entity owned, directly or indirectly, by the affiliate.	☐	☐
f. If application is for an oil or gas pipeline, describe any related right-of-way or temporary use permit applications, and identify previous applications.	☐	☐
g. If application is for an oil and gas pipeline, identify all Federal lands by agency impacted by proposal.	☐	☐
II – PUBLIC CORPORATIONS		
a. Copy of law forming corporation	☐	☐
b. Proof of organization	☐	☐
c. Copy of Bylaws	☐	☐
d. Copy of resolution authorizing filing	☐	☐
e. If application is for an oil or gas pipeline, provide information required by Item "I-f" and "I-g" above.	☐	☐
III – PARTNERSHIP OR OTHER UNINCORPORATED ENTITY		
a. Articles of association, if any dna	☐	☐
b. If one partner is authorized to sign, resolution authorizing action is	☒	☐
c. Name and address of each participant, partner, association, or other	☒	☐
d. If application is for an oil or gas pipeline, provide information required by Item "I-f" and "I-g" above. dna	☐	☐

* If the required information is already filed with the agency processing this application and is current, check block entitled "Filed." Provide the file identification information *(e.g., number, date, code, name)*. If not on file or current, attach the requested information.

NOTICE

The Privacy Act of 1974 provides that you be furnished the following information in connection with information required by this application for an authorization.

AUTHORITY: 16 U.S.C. 310; 5 U.S.C. 301.

PRINCIPLE PURPOSE: The information is to be used to process application.

ROUTINE USES: (1) The processing of the applicant's request an authorization. (2) Documentation for public information. (3) Transfer to appropriate Federal agencies when concurrence is required prior to granting a right in public lands or resources. (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.

EFFECT OF NOT PROVIDING INFORMATION: Disclosure of the information is voluntary. If all the information is not provided, the application may be rejected.

DATA COLLECTION STATEMENT

The Federal agencies collect this information from applicants requesting right-of-way, permit, license, lease, or certification for the use of Federal lands.

The Federal agencies use this information to evaluate the applicant's proposal.

The public is obligated to respond to this information request if they wish to obtain permission to use Federal lands.

94.7 MHz CHANNEL 234 C
Kingman, Arizona
February 1985

ENGINEERING STATEMENT

INTRODUCTION

This exhibit constitutes the engineering portion of an application to modify the existing construction permit of commercial FM broadcast station KZZZ, Kingman, Arizona, to move transmitter site, including the resulting change in height above average terrain and effective radiated power. Mohave Sun Broadcasting, licensee of KZZZ and permittee of an existing construction permit (BPH830907AF) to modify the licensed facilities, has retained the services of Ellis & Wiebe, P.C., Telecommunications Consulting Engineers, Aurora, Colorado, to prepare this engineering portion of the application.

The proposed operation is on FM Channel 234 C (94.7 MHz), the channel presently authorized by the KZZZ construction permit. The proposed Effective Radiated Power is 25.226 kilowatts with an overall Height Above Average Terrain of 3640.48 feet (1109.6 m).

The proposed site relocation will result in KZZZ operating with full Class C facilities as defined in FCC Docket 80-90. The site presently authorized by the KZZZ construction permit does not provide the required minimum height above average terrain for a Class C station. The site move requested herein will enable KZZZ to serve Kingman with full Class C facilities to provide optimum utilization of the Class C channel assigned to the city.

PROPOSED SITE

Exhibit 900 shows the proposed transmitter site, located approximately 11 miles southeast of Kingman. This site is the Hayden Peak Electronics Site, presently in use by numerous two way radio users and television translators. The geographic coordinates of the site, obtained from the existing facilities shown on the latest available U.S. Geological 7 1/2" topographic map and shown on Exhibit 900 are:

N Lat 35° 04' 52"
W Lon 113° 54' 13"

This site is on the property of the U.S. Bureau of Land Management (BLM). Pages 7 through 11 of Exhibit 100 include a copy of the application for permit to use the BLM Land.

Exhibit 920 is a sketch of the proposed site location showing existing structures and electronics users. This sketch was provided by Mr. Michael Thompson of the Kingman BLM office.

The proposed site is in the general vicinity of the commercial transmitting and receiving equipment of various two-way radio communications users and television translators located at the site. The applicant will make every reasonable effort to prevent any interference problems between the existing and proposed facilities and will provide full cooperation to resolve any problems that occur as a direct result of the installation of the proposed facilities. The proposed overall tower height of 138' AGL was selected to minimize interference with existing electronic facilities at the site by maintaining at least 50' vertical clearance between the bottom element of the proposed FM antenna and the tallest existing antenna structure at the site (50' AGL). The BLM has expressed an interest of consolidating the existing two way radio facilities at the base of and possibly on the proposed tower. This would put the transmitting and receiving equipment of existing users directly below the proposed FM antenna, with a minimum of 50' vertical clearance, thus minimizing the possibility of undesirable interference or intermodulation products. Exhibits 280, 290 and 295 contain a more complete discussion of the electromagnetic compatibility of the proposed facilities at the Hayden Peak site.

Exhibit 210 shows the calculated distance from the proposed transmitter site to existing stations and allocations on pertinent cochannel, adjacent channel and intermediate frequency channels. All distances were computed according to the method prescribed in Section 73.208 of the FCC Rules. In compliance with Section 73.207, the proposed transmitter site meets all requirements for specified minimum distance spacing from other FM stations.

PROPOSED FACILITIES

The cardinal profile radials were plotted on the latest available USGS topographic maps. The elevations located at a distance of two to ten miles from the transmitter site on each of these radials were taken at 0.1 mile increments. These elevations were then averaged for each radial to determine the height above average terrain for each radial. The overall height above average terrain for the eight cardinal radials is 3640.48 feet (1109.6 m).

The terrain profile on azimuth 315° True from the proposed transmitter site over the city of Kingman was examined in detail for possible shadowing of the community by the intervening terrain. In compliance with Section 73.315 (b), the proposed transmitter site provides unobstructed line of sight from the antenna to the community to be served. In addition, the proposed site provides unobstructed first Fresnel Zone clearance to provide a minimum of signal attenuation into Kingman.

The proposed tower is a tapered triangular cross section self supporting steel tower, 110 feet tall, with the three element antenna pole mounted for a height of the center of radiation of 122 feet above the ground (8502' MSL, 3640.48' HAAT).

The top element of the antenna is approximately three feet below the top of the pole mount, and a 3' lightning rod will be provided for the purpose of lightning protection. The bottom bay will be no less than 110 feet AGL, or approximately 50' above the tallest antenna structure at the site (considering differences in ground elevation) for the purpose of minimizing possible interference with existing electronic services.

The proposed antenna is a standard non-directional, pole mounted, three (3) element circularly polarized FM antenna with a gain of 1.5588 relative field. The use of a 3 bay antenna will eliminate the undesirable vertical radiation characteristics inherent in antennas with larger numbers of bays. Because of the wide vertical aperture of radiation, no beam tilt or null fill will be necessary, and none is proposed. Since no beam tilt or null fill is employed the vertical component of radiation is equal to or less than the horizontal components in all directions.

The proposed effective radiated power was computed based on maximum Class C facilities. Since the proposed height above average terrain (3640.48' or 1109.6 m) exceeds the maximum permitted Class C height of (1968' or 600 m), the equivalent ERP for maximum Class C facilities was computed to locate the 60 dBu contour at 57.05 miles (the equivalent of 100kW operating at 1968 feet or 600 m).

The proposed transmitter will operate with an output power of approximately 16.813 kW, based on an estimated transmission line efficiency of 96.25% (120 feet of 3" air dielectric) for an antenna input power of 16.183 kW, and an Effective Radiated Power of 25.226 kilowatts. Exact transmitter output power will be determined at the time of construction based on precise length of transmission line installed.

PROPOSED COVERAGE

Exhibit 220 shows the computed distances to the 70 dBu and 60 dBu contours based on the proposed facilities and the surrounding terrain. The computed distances are based on the F(50,50) curve of Section 73.333, Figure 1, of the FCC Rules. Actual calculations were performed using an adaptation of the FCC computer program TVFMFS, "Field Strength Calculation for TV and FM Broadcasting". On radials with a height above average terrain of less than 100 feet, the minimum value of 100 feet from Figure 1 was used for the field intensity calculations. Exhibit 950 shows the proposed 70 dBu and 60 dBu coverage contours plotted on a map of the area. In compliance with Section 73.315 (a), the 70 dBu contour encompasses the entire community of Kingman. Exhibit 400 summarizes the areas and populations served by these contours.

CONCLUSION

This application for modification of construction permit BPH830907AF for commercial FM broadcast station KZZZ to provide full class C service to Kingman, Arizona, has been prepared in complete compliance with Part 73 of the FCC Rules and Regulations as amended to date. Therefore, Mohave Sun Broadcasting requests that the presently authorized construction permit be modified to reflect operation with the facilities as specified in this application.

Respectfully submitted,
Ellis & Wiebe, P.C.

Michael Wiebe P.E.

Michael Wiebe, P.E.
February 25, 1985

FM SITE MOVE
KZZZ
MOHAVE SUN BROADCASTING
94.7 MHz Channel 234 C
KINGMAN, ARIZONA
FEBRUARY 1985

DISTANCE TO PERTINENT FM STATIONS

FOR KINGMAN AZ
N Lat 35:04:52.00 W Lon 113:54:13.00
HAYDEN PEAK
CHANNEL 234 C

Output sorted by: Channel Distance State City

File records located beyond 350 km are not printed.

ST	CITY	CALL	STAT	CHNL	DISTANCE (km)	REQUIRED DISTANCE	
BJ	MURGIA		AL	231A	337.173	113.000	
NV	HENDERSON	KXTE	LI	231C	143.337	105.000	
CA	BARSTOW	KZNS	LI	232A	285.685	105.000	
CA	BRAWLEY		AL	233B	277.433	217.000	
CA	BRAWLEY	NEW	AP	233B	280.493	217.000	
CA	BRAWLEY	NEW	AP	233B	281.422	217.000	
CA	BRAWLEY	NEW	AP	233B	294.459	217.000	
AZ	PHOENIX	KOOLFM	LI	233C	257.531	241.000	
AZ	KINGMAN		AL	234C	18.510	290.000	SS
AZ	KINGMAN	KZZI	CP	234CC	17.985	306.090	SS
UT	CEDAR CITY	KBREFM	LI	235C	288.282	241.000	
CA	SAN BERNARDINO	KQLH	CP	236B	325.120	105.000	
CA	SAN BERNARDINO	KQLH	AP	236B	325.120	105.000	
CA	SAN BERNARDINO	KQLH	LI	236B	325.120	105.000	
AZ	WINSLOW	KRIM	CP	236CC	248.815	121.090	
AZ	YUMA	KTTI	CP	236CC	270.136	121.090	
AZ	YUMA	KTTI	LI	236CC	271.602	121.090	
NV	BOULDER CITY	KRRI	CP	288A	133.795	32.000	
NV	BOULDER CITY	KRRI	CP	288A	133.795	32.000	
AZ	WICKENBURG	KHBC	CP	288A	165.252	32.000	
CA	DESERT CENTER		RA	288A	212.721	32.000	
BJ	CIUDAD MORELOS		AL	288A	285.154	40.000	
CA	HEMET	KHYE	LI	288A	320.401	32.000	
AZ	CASA GRANDE	KBBT	LI	288A	322.457	32.000	
AZ	CLAYPOOL	KTTC	CP	288A	339.880	32.000	

FM SITE MOVE
KZZZ
MOHAVE SUN BROADCASTING
94.7 MHz Channel 234 C
KINGMAN, ARIZONA
FEBRUARY 1985

COMPUTED DISTANCE TO CONTOURS

PROPOSED KZZZ - HAYDEN PEAK
CHANNEL 234 25.226 kW

Azimuth (Deg T)	HAAT (m)	Relative Field	Equiv Power	Rough Correct	(50,50) 70.0dBu (km)	(50,50) 60.0dBu (km)
.00	1131.55	1.000	25.226	.000	67.21	92.19
45.00	909.48	1.000	25.226	.000	62.88	87.60
90.00	1134.24	1.000	25.226	.000	67.25	92.24
135.00	1063.83	1.000	25.226	.000	65.99	90.92
180.00	758.48	1.000	25.226	.000	58.94	83.37
225.00	1202.73	1.000	25.226	.000	68.39	93.39
270.00	1381.66	1.000	25.226	.000	71.20	96.05
315.00	1294.99	1.000	25.226	.000	69.84	94.82
	1109.62 m CARDINAL AVG					

FM SITE MOVE
KZZZ
MOHAVE SUN BROADCASTING
94.7 MHz Channel 234 C
KINGMAN, ARIZONA
FEBRUARY 1985

COMPUTED DISTANCE TO CONTOURS

PROPOSED KZZZ - HAYDEN PEAK
CHANNEL 234 25.226 kW

Azimuth (Deg T)	HAAT (ft)	Relative Field	Equiv Power	Rough Correct	(50,50) 70.0dBu (mi)	(50,50) 60.0dBu (mi)
.00	3712.43	1.000	25.226	.000	41.77	57.30
45.00	2983.85	1.000	25.226	.000	39.08	54.44
90.00	3721.26	1.000	25.226	.000	41.80	57.33
135.00	3490.27	1.000	25.226	.000	41.01	56.51
180.00	2488.44	1.000	25.226	.000	36.63	51.81
225.00	3945.95	1.000	25.226	.000	42.50	58.05
270.00	4532.99	1.000	25.226	.000	44.25	59.70
315.00	4248.67	1.000	25.226	.000	43.41	58.93

3640.48ft CARDINAL AVG

94.7 MHz CHANNEL 234 C
Kingman, Arizona
February 1985

ELECTROMAGNETIC COMPATIBILITY STUDY

In order to investigate the suitability of the use of a new frequency at an existing electronics site, several factors must be considered. These include receiver desensitization due to fundamental overload, generation of intermodulation products, and susceptibility of existing equipment to interference.

In the discussion that follows, it should be remembered that while the problems under consideration are mathematically possible, a certainty of interference is clearly not implied. The purpose of a study and discussion of this type is to predict and anticipate the more likely problem areas. Experience has clearly demonstrated that the successful operation of congested radio and television transmitting/receiving sites is very common, even when predicted interference studies indicate the possibility of problems. These types of multi-user sites routinely involve both high powered broadcast facilities and relatively low powered two way radio communications.

This type of electromagnetic compatibility study is essential prior to construction at a multi user installation. Without adequate advance study, unforeseen problems may surface after the installation is complete, and the lack of a coherent plan for their resolution would result in great inconvenience to all offended users. Such a study as this is as important to the operators of high power facilities, as well as lower powered equipment, since the complexity of the typical FM or television signal can be disrupted by very low levels of spurious radiation, rendering subcarriers unusable.

Also, it should be remembered that the resolution of problems that do materialize is based on well established techniques which have been thoroughly proven. The vast majority of such problems are remedied by the use of relatively simple filters and traps installed on the appropriate equipment. Careful analysis of any problem which might arise will allow the logical application of the principles of good engineering practice.

Receiver Desensitization

The most common source of interference problems at multi-user sites is the desensitization of receivers due to the overload of their front end detection circuits by the presence of high levels of the offending carrier signal. The high power signal saturates the circuitry, driving the signal levels in the affected components beyond their normal operating range, so that normal variations from the modulation of the desired received signal cannot be detected. This type of problem is a function of the frequency separation of the high powered carrier from the desired receiver frequency, the physical separation between the

transmitting antenna and the receiver, and the power levels involved.

In the case of the present proposal, several factors indicate that receiver desensitization is not anticipated as a serious problem. First, the proposed fundamental operating frequency (94.7 MHz) is approximately 13 MHz (more than twice the 6 MHz television channel bandwidth) from the nearest existing received frequency (81.74 MHz, the aural carrier, and 77.24 MHz, the visual carrier for channel 5 (with -10 kHz frequency offset), received by translator K66AK). All other received frequencies are on the order of 30 MHz or greater removed. Second, the proposed location is approximately 100 to 150 feet from existing receiving equipment (see Exhibit 920). While this separation is not a great distance, it will contribute to the attenuation of the proposed signal. Finally, the effective radiated power of the proposed facility is 25.226 kilowatts. However, the vertical radiation pattern of the proposed three element antenna results in a pattern minimum at an angle of depression of 20° below the horizontal plane.

Considering the proposed height of the center of radiation of 122' AGL, the differences in elevation at various locations at the Hayden Peak site, the angle of depression between the proposed antenna and existing antennas (estimated 30' AGL) is between approximately 25° and 36°, or in the immediate vicinity of a vertical direction with minimal radiation. Based on the vertical radiation characteristics supplied by manufacturer's literature for typical three element antennas, the field from the proposed antenna and the existing receiving equipment is approximately 21-23%, or approximately 5% of the effective radiated power (1.31 kW). This power level is on the same order of magnitude of the power levels currently in use for the outputs of several television translators currently operating at the site (K70AC, 1.14 kW; K66AK, 0.826 kW; K78AC, 1.15 kW).

Thus, the proposed facility is not a radical departure from the conditions presently found at the site, and fundamental carrier frequency signal levels are not anticipated to cause interference problems resulting in the desensitization of receiving equipment. Furthermore, if, as has been suggested by BLM, the existing equipment is consolidated at or on the proposed tower 50 to 75 feet directly below the proposed antenna, the radiation in the vertical plane toward the receiving equipment will be further substantially reduced, due to the vertical radiation characteristics of the FM antenna (theoretically zero at 90°), and the increased isolation between the various antennas achieved by increased vertical separation.

Intermodulation Products

Intermodulation products are the frequencies generated by the combination of two or more frequencies in a non-linear device, such as the output stage of a transmitter, or the input stage of a receiver. Whenever two or more signals are present in a non-

linear device, the possibility exists that an intermodulation product will be spontaneously generated as some combination of sums and/or differences between the frequencies involved. The contributing frequencies can be fundamental carrier frequencies of transmitters in the vicinity, or they can be harmonic products of those carriers (twice the frequency, three times, etc.).

Exhibit 290 tabulates the results of an intermodulation products study evaluating the proposed and existing facilities at the Hayden Peak site, considering the proposed frequency through the ninth harmonic, and all existing transmitting frequencies and their second harmonics, taken in all possible combinations of the proposed facilities and one other transmitting frequency. The possible intermodulation products are then compared to all existing receive frequencies used at the site to determine possible areas requiring attention. All received frequencies at Hayden peak are compared to the various computed possible products, including visual and aural received carrier frequencies and chrominance subcarrier frequencies for television translators in use. The bandwidths considered are shown on Exhibit 290. The last page of Exhibit 290 is a summary of the results, organized by television translator received channels, of possible products within the channel's bandwidth.

Exhibit 295 tabulates the results of an intermodulation products study evaluating the proposed and existing facilities at the Hayden Peak site, considering the proposed frequency through the ninth harmonic, and all existing transmitting frequencies and their second harmonics, taken in all possible combinations of the proposed facilities and two other transmitting frequencies. The possible intermodulation products are then compared to all existing receive frequencies used at the site to determine possible areas requiring attention. All received frequencies at Hayden peak are compared to the various computed possible products, including visual and aural received carrier frequencies and chrominance subcarrier frequencies for television translators in use. The bandwidths considered are shown on Exhibit 295. (Narrower bandwidths were employed in the three frequency study in order to focus on the worst case possibilities while limiting the number of combinations to evaluate to a manageable size.)

In evaluating the possible interference resulting from the mathematical combinations computed, several factors are pertinent. The power reduction of the proposed fundamental frequency due to considerations of the antenna's vertical radiation pattern discussed above also apply to this case. The effective power levels radiated from the proposed antenna in the direction of the receiving equipment is on the same order of magnitude as existing transmitting equipment and should not cause radically higher levels of interference from intermodulation products. Intermodulation products generated in existing receivers resulting from the fundamental carrier frequency can be substantially reduced or eliminated through the use of notch filters, as discussed below. Since the power levels anticipated are on the same order of magnitude as other signals present, the

selective attenuation achieved by the use of filters will provide adequate protection.

Those possible intermodulation products shown in Exhibit 290 and Exhibit 295 resulting from the combinations of second and higher order harmonics from proposed and/or existing equipment are of extremely low probability because of the stringent FCC regulations regarding spurious radiation and the suppression of harmonic frequencies. Television translators operating at powers greater than 100 Watts must suppress harmonic radiation by at least 60 dB (Section 74.736 of the FCC Rules). Private land mobile (two-way radio) equipment (Section 90.209) must suppress harmonic radiation removed by 250% of their bandwidth by 80 dB or the computed value of:

43 dB + 10 Log (output power in Watts),

whichever is less.

The same requirement is imposed on FM broadcast facilities for frequencies greater than 600 kHz from the fundamental. The proposed FM broadcast facilities must limit harmonic radiation by 80 dB (1/100,000,000) below the power of the fundamental frequency. Thus, the signal levels of harmonic radiation from properly adjusted and operating equipment are attenuated to levels far below normal operating signal levels, and provide minimal contribution to generate intermodulation products.

The computed possible intermodulation products which occur directly on existing received frequencies are noted on Exhibits 290 and 295 with arrows. It should be noted that of the 47 resultants so noted, the majority (32) involve fourth or higher order harmonics. The required attenuation of these harmonics discussed above greatly reduce the probability that any such products will actually materialize.

The remaining 15 products which involve fundamental, second and third harmonics of the proposed frequency are tabulated below:
Fundamental Component:

65.7600 MHz - Channel 3 aural carrier (+10 kHz offset)
172.7750 MHz
469.4000 MHz
469.6000 MHz
469.7000 MHz
469.8500 MHz
Second Harmonic Component:

205.2400 MHz - Channel 12 visual carrier (-10 kHz offset)
205.2400 MHz (Two possible occurrences)
517.7500 MHz - Channel 21 aural carrier

Third Harmonic Component:

164.7250 MHz
168.3000 MHz
187.2500 MHz - Channel 9 visual carrier (not currently in use)
735.2500 MHz - Channel 58 visual carrier
739.7500 Mhz - Channel 58 aural carrier
12270.00 MHz

The applicant recognizes the potential for interfering intermodulation products on these frequencies. Special care will be exercised during the installation and testing of the proposed facilities to minimize harmful interference caused by the new equipment and appropriate filtering measures will be taken to remedy problems that develop as a direct result of the installation of the new equipment. Other possible intermodulation products not directly on frequency but within the bandwidth of existing receivers will also be treated.

Susceptibility of Equipment

Another common contributing factor in cases of mutual interference between electronic equipment at shared transmit and receive sites is the general condition and the quality of installation of the existing and new equipment. Ungrounded or improperly grounded metal buildings, chain link fences, plumbing, supporting tower sections, sheet metal roofing, etc., can result in substantial problems of reflection, absorption, and reradiation of fundamental as well as harmonic signals, producing destructive spurious radiation. All such features at any transmitter site should be carefully bonded together and grounded to minimize such possibilities. Likewise, the electrical power supply wiring at the site must be properly installed with mechanically secure connections and the neutral wire and all fixtures, conduits, and other non-current carrying metal parts be securely bonded and grounded to an adequate earth ground.

The most critical components in reducing susceptibility of equipment are obviously the electronic equipment itself. All equipment must be properly adjusted, shielded and grounded to reduce the possibility of stray radiation either radiating from the equipment or penetrating into the equipment. All portions of coaxial cable connecting transmit/receive equipment with antennas should be kept as short as possible, installed directly from the antenna to the respective equipment, and properly supported, shielded and grounded. All mechanical connections between cables, antenna, terminals, plugs and connectors should be tight. All equipment covers and other shielding features should be in place and fastened securely and firmly connected to ground. Any treatment of this nature will not only minimize or resolve susceptibility to interference, but will also maximize performance of the equipment.

The applicant will install all equipment for the proposed facilities in accordance with good engineering practice as

described above in order to minimize the possibilities of the new equipment contributing to any interference problems.

Elimination of Interference

Interference experienced as a result of the interaction of various electronic equipment at a multi-user transmit/receive site may be substantially reduced or eliminated by the judicious use of appropriate filtering apparatus. Spurious radiation products which are generated in the input stage of a receiver may be suppressed by the use of a notch filter(s) at the input terminals to attenuate the undesired components of other frequencies which contribute to the spurious product. Alternately, when a large number of components are involved, or when the exact nature of the interfering signals is not clearly defined, a narrow band pass filter may be used to selectively pass only the desired received frequency.

Likewise, spurious radiation components generated in the output of transmitting equipment may be reduced to levels which do not cause objectionable interference by the use of notch and/or band pass filters on the transmitter output.

Harmful interference resulting from equipment susceptibility problems, improper grounding, inadequate or missing shielding, etc., can obviously be remedied by the application of simple repair and preventative maintenance procedures.

Because neither the proposed fundamental frequencies nor any of its harmonics fall directly on any frequency presently received at the site, the well established filtering techniques employed to remedy problems encountered at multi-user sites may be used to solve any objectionable interference problems which may arise.

Likewise, no proposed frequency or harmonic falls directly on any of the received frequencies presently in use at the Potato Patch electronics site, located approximately 0.89 miles away. Also, due to the difference in elevation between the proposed antenna at Hayden Peak and the Potato Patch site, the vertical radiation pattern of a typical three element antenna will result in reduced power radiated toward the Potato Patch site (approximately 45% of the horizontal ERP at 9^{o} depression angle). This reduction and the distance separation between the sites indicates that no harmful interference will be caused at the separate Potato Patch site as a result of the proposed installation.

Proposed Facilities

The proposed facilities will be installed in complete compliance with FCC Rules and Regulations, and in accordance with principles of good engineering practice, in order to minimize the possibility of objectionable interference between the new equipment and other existing equipment presently in use at the site. In the event that objectionable interference is experienced, the applicant will cooperate to the fullest extent

to determine the cause of the interference. This determination will be made by observing the interference problem, through the use of a spectrum analyzer in conjunction with directional antenna equipment if such is required to precisely isolate the exact source of the problem.

The applicant will assist in determining the best solution to any interference problems experienced as a direct result of the new installation proposed herein. The applicant will bear the responsibility for correction of any problem which is a direct result of the new installation. The applicant will assist other users at the site in locating problems of susceptibility in their equipment. Every effort will be made to accomplish multi user operation at the site which is satisfactory to all parties involved.

FM SITE MOVE
KZZZ
MOHAVE SUN BROADCASTING
94.7 MHz Channel 234 C
KINGMAN, ARIZONA
FEBRUARY 1985

INTERMODULATION STUDY

THIS STUDY CHECKS COMBINATIONS OF ANY TWO TRANSMITTING FREQUENCIES (INCLUDING HARMONICS) AGAINST SPECIFIED RECEIVED FREQUENCIES. ANY SUM WITHIN .050 MHz OF A RECEIVED FREQUENCY IS PRINTED FOR STUDY. (OR WITHIN .200 MHz OF FM CHANNELS, 3.000 MHz OF TV CHANNELS)

TRANSMITTING FACILITIES			RECEIVING FACILITIES	
CALL	FREQ (MHz)		CALL	FREQ (MHz)
KZZZ	94.7000	9	RC001	48.3800
TX001	47.8200	2	RC002	35.1600
TX002	35.1600	2	RC003	48.2400
TX003	47.7400	2	RC004	45.2000
TX004	45.2000	2	RC005	39.5000
TX005	146.7600	2	RC006	146.1600
TX006	152.1200	2	RC007	158.5800
TX007	153.2000	2	RC008	158.2800
TX008	154.3550	2	RC009	153.8900
TX009	155.9700	2	RC010	155.9700
TX010	156.1500	2	RC011	155.5350
TX011	158.3100	2	RC012	153.2900
TX012	159.1350	2	RC013	156.0450
TX013	164.1500	2	RC014	164.9375
TX014	163.6750	2	RC015	162.9250
TX015	172.9500	2	RC016	172.1500
TX016	413.6750	2	RC017	408.3000
TX017	451.7750	2	RC018	456.7750
TX018	464.4000	2	RC019	469.4000
TX019	464.6000	2	RC020	469.6001
TX020	464.7001	2	RC021	469.7000
TX021	464.8499	2	RC022	469.8500
CH50 V	687.2500	2	CH12-V	205.2400
CH50 A	691.7500	2	CH12-C	208.8195
CH60 V	747.2500	2	CH12-A	209.7400
CH60 A	751.7501	2	CH58 V	735.2500
CH66 V	783.2500	2	CH58 C	738.8295
CH66 A	787.7500	2	CH58 A	739.7500
CH68 V	795.2501	2	CH05-V	77.2400
CH68 A	799.7500	2	CH05-C	80.8195
CH70 V	807.2501	2	CH05-A	81.7400
CH70 A	811.7501	2	CH08+V	181.2600
CH78 V	855.2500	2	CH08+C	184.8395
CH78 A	859.7500	2	CH08+A	185.7600
CH82 V	879.2501	2	CH03+V	61.2600
CH82 A	883.7500	2	CH03+C	64.8395
TX0038	2118.7999	2	CH03+A	65.7600
TX039	12530.0002	2	CH10-V	193.2400
TX040	12469.9997	2	CH10-C	196.8195

INTERMODULATION STUDY

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TRANSMITTING FACILITIES

CALL	FREQ (MHz)	
TX041	12489.9995	2
TX042	12510.0004	2
TX043	12730.0000	2
TX044	12899.9996	2
TX045	12774.9991	2
TX046	12875.0002	2
TX047	12925.0001	2
TX048	48.7400	2
TX049	1875.0000	2
TX050	1885.0000	2
TX051	1950.0000	2
TX052	169.6250	2
TX053	169.1000	2
TX054	417.6750	2
TX055	164.2000	2
TX056	168.3000	2
TX057	169.2250	2
TX058	419.7750	2
TX059	467.2750	2
TX060	164.5750	2
TX061	417.2750	2

RECEIVING FACILITIES

CALL	FREQ (MHz)
CH10-A	197.7400
RC035	12250.0002
RC036	12230.0004
RC037	12269.9999
RC038	12209.9995
CH09 V	187.2500
CH09 C	190.8295
CH09 A	191.7500
CH13 V	211.2500
CH13 C	214.8295
CH13 A	215.7500
CH15-V	477.2400
CH15-C	480.8195
CH15-A	481.7401
CH21 V	513.2500
CH21 C	516.8294
CH21 A	517.7500
RC047	48.7400
RC048	1895.0000
RC049	1945.0000
RC050	1985.0001
RC051	172.7750
RC052	169.1000
RC053	414.8250
RC054	164.1250
RC055	408.5750
RC056	164.7250
RC057	168.3000
RC058	414.9750
RC059	462.2750
RC060	2168.7998

FM SITE MOVE
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INTERMODULATION STUDY

FREQ (MHz)	COMPONENTS				
190.3400	1(	94.7000)	2(	47.8200)	
NOTE:	2.9000 MHz FROM	RECEIVED	FREQUENCY	CH10-V	193.2400
190.3400	1(	94.7000)	2(	47.8200)	
NOTE:	.4895 MHz FROM	RECEIVED	FREQUENCY	CH09 C	190.8295
190.3400	1(	94.7000)	2(	47.8200)	
NOTE:	1.4100 MHz FROM	RECEIVED	FREQUENCY	CH09 A	191.7500
188.4600	3(	94.7000)	-2(	47.8200)	
NOTE:	2.7000 MHz FROM	RECEIVED	FREQUENCY	CH08+A	185.7600
188.4600	3(	94.7000)	-2(	47.8200)	
NOTE:	1.2100 MHz FROM	RECEIVED	FREQUENCY	CH09 V	187.2500
188.4600	3(	94.7000)	-2(	47.8200)	
NOTE:	2.3695 MHz FROM	RECEIVED	FREQUENCY	CH09 C	190.8295
474.4400	4(	94.7000)	2(	47.8200)	
NOTE:	2.8000 MHz FROM	RECEIVED	FREQUENCY	CH15-V	477.2400
520.3800	6(	94.7000)	-1(	47.8200)	
NOTE:	2.6300 MHz FROM	RECEIVED	FREQUENCY	CH21 A	517.7500
59.5400	1(	94.7000)	-1(	35.1600)	
NOTE:	1.7200 MHz FROM	RECEIVED	FREQUENCY	CH03+V	61.2600
213.7800	3(	94.7000)	-2(	35.1600)	
NOTE:	2.5300 MHz FROM	RECEIVED	FREQUENCY	CH13 V	211.2500
213.7800	3(	94.7000)	-2(	35.1600)	
NOTE:	1.0495 MHz FROM	RECEIVED	FREQUENCY	CH13 C	214.8295
213.7800	3(	94.7000)	-2(	35.1600)	
NOTE:	1.9700 MHz FROM	RECEIVED	FREQUENCY	CH13 A	215.7500
733.2200	7(	94.7000)	2(	35.1600)	
NOTE:	2.0300 MHz FROM	RECEIVED	FREQUENCY	CH58 V	735.2500
190.1800	1(	94.7000)	2(	47.7400)	
NOTE:	2.9300 MHz FROM	RECEIVED	FREQUENCY	CH09 V	187.2500
190.1800	1(	94.7000)	2(	47.7400)	
NOTE:	.6495 MHz FROM	RECEIVED	FREQUENCY	CH09 C	190.8295
190.1800	1(	94.7000)	2(	47.7400)	
NOTE:	1.5700 MHz FROM	RECEIVED	FREQUENCY	CH09 A	191.7500
188.6200	3(	94.7000)	-2(	47.7400)	
NOTE:	2.8600 MHz FROM	RECEIVED	FREQUENCY	CH08+A	185.7600
188.6200	3(	94.7000)	-2(	47.7400)	
NOTE:	1.3700 MHz FROM	RECEIVED	FREQUENCY	CH09 V	187.2500
188.6200	3(	94.7000)	-2(	47.7400)	
NOTE:	2.2095 MHz FROM	RECEIVED	FREQUENCY	CH09 C	190.8295
474.2800	4(	94.7000)	2(	47.7400)	
NOTE:	2.9600 MHz FROM	RECEIVED	FREQUENCY	CH15-V	477.2400
520.4600	6(	94.7000)	-1(	47.7400)	
NOTE:	2.7100 MHz FROM	RECEIVED	FREQUENCY	CH21 A	517.7500
185.1000	1(	94.7000)	2(	45.2000)	
NOTE:	.2605 MHz FROM	RECEIVED	FREQUENCY	CH08+C	184.8395

INTERMODULATION STUDY

FREQ (MHz)	COMPONENTS				
185.1000	1(	94.7000)	2(	45.2000)	
NOTE:	.6600 MHz FROM RECEIVED FREQUENCY CH08+A				185.7600
185.1000	1(	94.7000)	2(	45.2000)	
NOTE:	2.1500 MHz FROM RECEIVED FREQUENCY CH09 V				187.2500
193.7000	3(	94.7000)	-2(	45.2000)	
NOTE:	.4600 MHz FROM RECEIVED FREQUENCY CH10-V				193.2400
193.7000	3(	94.7000)	-2(	45.2000)	
NOTE:	2.8705 MHz FROM RECEIVED FREQUENCY CH09 C				190.8295
193.7000	3(	94.7000)	-2(	45.2000)	
NOTE:	1.9500 MHz FROM RECEIVED FREQUENCY CH09 A				191.7500
518.7000	5(	94.7000)	1(	45.2000)	
NOTE:	1.8705 MHz FROM RECEIVED FREQUENCY CH21 C				516.8294
518.7000	5(	94.7000)	1(	45.2000)	
NOTE:	.9500 MHz FROM RECEIVED FREQUENCY CH21 A				517.7500
477.8000	6(	94.7000)	-2(	45.2000)	
NOTE:	.5600 MHz FROM RECEIVED FREQUENCY CH15-V				477.2400
198.8200	-1(	94.7000)	2(	146.7600)	
NOTE:	2.0005 MHz FROM RECEIVED FREQUENCY CH10-C				196.8195
198.8200	-1(	94.7000)	2(	146.7600)	
NOTE:	1.0800 MHz FROM RECEIVED FREQUENCY CH10-A				197.7400
482.9200	2(	94.7000)	2(	146.7600)	
NOTE:	2.1005 MHz FROM RECEIVED FREQUENCY CH15-C				480.8195
482.9200	2(	94.7000)	2(	146.7600)	
NOTE:	1.1800 MHz FROM RECEIVED FREQUENCY CH15-A				481.7401
179.9800	5(	94.7000)	-2(	146.7600)	
NOTE:	1.2800 MHz FROM RECEIVED FREQUENCY CH08+V				181.2600
516.1399	7(	94.7000)	-1(	146.7600)	
NOTE:	2.8900 MHz FROM RECEIVED FREQUENCY CH21 V				513.2500
516.1399	7(	94.7000)	-1(	146.7600)	
NOTE:	.6895 MHz FROM RECEIVED FREQUENCY CH21 C				516.8294
516.1399	7(	94.7000)	-1(	146.7600)	
NOTE:	1.6100 MHz FROM RECEIVED FREQUENCY CH21 A				517.7500
209.5400	-1(	94.7000)	2(	152.1200)	
NOTE:	.7205 MHz FROM RECEIVED FREQUENCY CH12-C				208.8195
209.5400	-1(	94.7000)	2(	152.1200)	
NOTE:	.2000 MHz FROM RECEIVED FREQUENCY CH12-A				209.7400
209.5400	-1(	94.7000)	2(	152.1200)	
NOTE:	1.7100 MHz FROM RECEIVED FREQUENCY CH13 V				211.2500
74.5600	4(	94.7000)	-2(	152.1200)	
NOTE:	2.6800 MHz FROM RECEIVED FREQUENCY CH05-V				77.3400
510.7800	7(	94.7000)	-1(	152.1200)	
NOTE:	2.4700 MHz FROM RECEIVED FREQUENCY CH21 V				513.2500
58.5000	-1(	94.7000)	1(	153.2000)	
NOTE:	2.7600 MHz FROM RECEIVED FREQUENCY CH03+V				61.2600

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INTERMODULATION STUDY

FREQ (MHz)	COMPONENTS			
211.7000	-1(94.7000)	2(153.2000)		
NOTE: 2.8805	MHz FROM RECEIVED FREQUENCY		CH12-C	208.8195
211.7000	-1(94.7000)	2(153.2000)		
NOTE: 1.9600	MHz FROM RECEIVED FREQUENCY		CH12-A	209.7400
211.7000	-1(94.7000)	2(153.2000)		
NOTE: .4500	MHz FROM RECEIVED FREQUENCY		CH13 V	211.2500
415.0001	6(94.7000)	-1(153.2000)		
NOTE: .0250	MHz FROM RECEIVED FREQUENCY		RC058	414.9750
59.6550	-1(94.7000)	1(154.3550)		
NOTE: 1.6050	MHz FROM RECEIVED FREQUENCY		CH03+V	61.2600
214.0100	-1(94.7000)	2(154.3550)		
NOTE: 2.7600	MHz FROM RECEIVED FREQUENCY		CH13 V	211.2500
214.0100	-1(94.7000)	2(154.3550)		
NOTE: .8195	MHz FROM RECEIVED FREQUENCY		CH13 C	214.8295
214.0100	-1(94.7000)	2(154.3550)		
NOTE: 1.7400	MHz FROM RECEIVED FREQUENCY		CH13 A	215.7500
61.2700	-1(94.7000)	1(155.9700)		
NOTE: .0100	MHz FROM RECEIVED FREQUENCY		CH03+V	61.2600
217.2400	-1(94.7000)	2(155.9700)		
NOTE: 2.4105	MHz FROM RECEIVED FREQUENCY		CH13 C	214.8295
217.2400	-1(94.7000)	2(155.9700)		
NOTE: 1.4900	MHz FROM RECEIVED FREQUENCY		CH13 A	215.7500
66.8600	4(94.7000)	-2(155.9700)		
NOTE: 2.0205	MHz FROM RECEIVED FREQUENCY		CH03+C	64.8395
66.8600	4(94.7000)	-2(155.9700)		
NOTE: 1.1000	MHz FROM RECEIVED FREQUENCY		CH03+A	65.7600
61.4500	-1(94.7000)	1(156.1500)		
NOTE: .1900	MHz FROM RECEIVED FREQUENCY		CH03+V	61.2600
217.6000	-1(94.7000)	2(156.1500)		
NOTE: 2.7705	MHz FROM RECEIVED FREQUENCY		CH13 C	214.8295
217.6000	-1(94.7000)	2(156.1500)		
NOTE: 1.8500	MHz FROM RECEIVED FREQUENCY		CH13 A	215.7500
66.5000	4(94.7000)	-2(156.1500)		
NOTE: 1.6605	MHz FROM RECEIVED FREQUENCY		CH03+C	64.8395
66.5000	4(94.7000)	-2(156.1500)		
NOTE: .7400	MHz FROM RECEIVED FREQUENCY		CH03+A	65.7600
63.6100	-1(94.7000)	1(158.3100)		
NOTE: 2.3500	MHz FROM RECEIVED FREQUENCY		CH03+V	61.2600
63.6100	-1(94.7000)	1(158.3100)		
NOTE: 1.2295	MHz FROM RECEIVED FREQUENCY		CH03+C	64.8395
63.6100	-1(94.7000)	1(158.3100)		
NOTE: 2.1500	MHz FROM RECEIVED FREQUENCY		CH03+A	65.7600
62.1800	4(94.7000)	-2(158.3100)		
NOTE: .9200	MHz FROM RECEIVED FREQUENCY		CH03+V	61.2600

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FREQ (MHz)	COMPONENTS		
62.1800	4(94.7000)	-2(158.3100)	
NOTE: 2.6595 MHz FROM RECEIVED FREQUENCY CH03+C			64.8395
64.4350	-1(94.7000)	1(159.1350)	
NOTE: .4045 MHz FROM RECEIVED FREQUENCY CH03+C			64.8395
64.4350	-1(94.7000)	1(159.1350)	
NOTE: 1.3250 MHz FROM RECEIVED FREQUENCY CH03+A			65.7600
60.5300	4(94.7000)	-2(159.1350)	
NOTE: .7300 MHz FROM RECEIVED FREQUENCY CH03+V			61.2600
517.7000	2(94.7000)	2(164.1500)	
NOTE: .8705 MHz FROM RECEIVED FREQUENCY CH21 C			516.8294
517.7000	2(94.7000)	2(164.1500)	
NOTE: .0500 MHz FROM RECEIVED FREQUENCY CH21 A			517.7500
214.6500	4(94.7000)	-1(164.1500)	
NOTE: .1795 MHz FROM RECEIVED FREQUENCY CH13 C			214.8295
214.6500	4(94.7000)	-1(164.1500)	
NOTE: 1.1000 MHz FROM RECEIVED FREQUENCY CH13 A			215.7500
732.3500	6(94.7000)	1(164.1500)	
NOTE: 2.9000 MHz FROM RECEIVED FREQUENCY CH58 V			735.2500
516.7500	2(94.7000)	2(163.6750)	
NOTE: .0794 MHz FROM RECEIVED FREQUENCY CH21 C			516.8294
516.7500	2(94.7000)	2(163.6750)	
NOTE: .9999 MHz FROM RECEIVED FREQUENCY CH21 A			517.7500
215.1250	4(94.7000)	-1(163.6750)	
NOTE: .2955 MHz FROM RECEIVED FREQUENCY CH13 C			214.8295
215.1250	4(94.7000)	-1(163.6750)	
NOTE: .6250 MHz FROM RECEIVED FREQUENCY CH13 A			215.7500
146.1500	5(94.7000)	-2(163.6750)	
NOTE: .0100 MHz FROM RECEIVED FREQUENCY RC006			146.1600
61.8000	-3(94.7000)	2(172.9500)	
NOTE: .5400 MHz FROM RECEIVED FREQUENCY CH03+V			61.2600
78.2500	-1(94.7000)	1(172.9500)	
NOTE: 1.0100 MHz FROM RECEIVED FREQUENCY CH05-V			77.2400
78.2500	-1(94.7000)	1(172.9500)	
NOTE: 2.5695 MHz FROM RECEIVED FREQUENCY CH05-C			80.8195
205.8500	4(94.7000)	-1(172.9500)	
NOTE: .6100 MHz FROM RECEIVED FREQUENCY CH12-V			205.2400
205.8500	4(94.7000)	-1(172.9500)	
NOTE: 2.9695 MHz FROM RECEIVED FREQUENCY CH12-C			208.8195
741.1500	6(94.7000)	1(172.9500)	
NOTE: 2.3206 MHz FROM RECEIVED FREQUENCY CH58 C			738.8295
741.1500	6(94.7000)	1(172.9500)	
NOTE: 1.4000 MHz FROM RECEIVED FREQUENCY CH58 A			739.7500
732.6500	-1(94.7000)	2(413.6750)	
NOTE: 2.6000 MHz FROM RECEIVED FREQUENCY CH58 V			735.2500

INTERMODULATION STUDY

FREQ (MHz)	COMPONENTS		
59.8250	5(94.7000)	-1(413.6750)	
NOTE:	1.4350 MHz FROM	RECEIVED FREQUENCY	CH03+V 61.2600
735.8751	3(94.7000)	1(451.7750)	
NOTE:	.6251 MHz FROM	RECEIVED FREQUENCY	CH58 V 735.2500
735.8751	3(94.7000)	1(451.7750)	
NOTE:	2.9544 MHz FROM	RECEIVED FREQUENCY	CH58 C 738.8295
211.1249	7(94.7000)	-1(451.7750)	
NOTE:	2.3054 MHz FROM	RECEIVED FREQUENCY	CH12-C 208.8195
211.1249	7(94.7000)	-1(451.7750)	
NOTE:	1.3849 MHz FROM	RECEIVED FREQUENCY	CH12-A 209.7400
211.1249	7(94.7000)	-1(451.7750)	
NOTE:	.1251 MHz FROM	RECEIVED FREQUENCY	CH13 V 211.2500
76.5000	-9(94.7000)	2(464.4000)	
NOTE:	.7400 MHz FROM	RECEIVED FREQUENCY	CH05-V 77.2400
180.3000	-3(94.7000)	1(464.4000)	
NOTE:	.9600 MHz FROM	RECEIVED FREQUENCY	CH08+V 181.2600
739.4001	-2(94.7000)	2(464.4000)	
NOTE:	.5706 MHz FROM	RECEIVED FREQUENCY	CH58 C 738.8295
739.4001	-2(94.7000)	2(464.4000)	
NOTE:	.3500 MHz FROM	RECEIVED FREQUENCY	CH58 A 739.7500
198.5000	7(94.7000)	-1(464.4000)	
NOTE:	1.6805 MHz FROM	RECEIVED FREQUENCY	CH10-C 196.8195
198.5000	7(94.7000)	-1(464.4000)	
NOTE:	.7600 MHz FROM	RECEIVED FREQUENCY	CH10-A 197.7400
76.9000	-9(94.7000)	2(464.6000)	
NOTE:	.3400 MHz FROM	RECEIVED FREQUENCY	CH05-V 77.2400
180.5000	-3(94.7000)	1(464.6000)	
NOTE:	.7600 MHz FROM	RECEIVED FREQUENCY	CH08+V 181.2600
739.8001	-2(94.7000)	2(464.6000)	
NOTE:	.9706 MHz FROM	RECEIVED FREQUENCY	CH58 C 738.8295
739.8001	-2(94.7000)	2(464.6000)	
NOTE:	.0500 MHz FROM	RECEIVED FREQUENCY	CH58 A 739.7500
198.3000	7(94.7000)	-1(464.6000)	
NOTE:	1.4805 MHz FROM	RECEIVED FREQUENCY	CH10-C 196.8195
198.3000	7(94.7000)	-1(464.6000)	
NOTE:	.5600 MHz FROM	RECEIVED FREQUENCY	CH10-A 197.7400
77.1000	-9(94.7000)	2(464.7001)	
NOTE:	.1400 MHz FROM	RECEIVED FREQUENCY	CH05-V 77.2400
180.6000	-3(94.7000)	1(464.7001)	
NOTE:	.6600 MHz FROM	RECEIVED FREQUENCY	CH08+V 181.2600
740.0001	-2(94.7000)	2(464.7001)	
NOTE:	1.1706 MHz FROM	RECEIVED FREQUENCY	CH58 C 738.8295
740.0001	-2(94.7000)	2(464.7001)	
NOTE:	.2501 MHz FROM	RECEIVED FREQUENCY	CH58 A 739.7500

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FREQ (MHz)	COMPONENTS			
198.1999	7(	94.7000)	-1(464.7001)	
NOTE: 1.3804 MHz FROM RECEIVED FREQUENCY CH10-C				196.8195
198.1999	7(	94.7000)	-1(464.7001)	
NOTE: .4600 MHz FROM RECEIVED FREQUENCY CH10-A				197.7400
77.4000	-9(	94.7000)	2(464.8499)	
NOTE: .1600 MHz FROM RECEIVED FREQUENCY CH05-V				77.2400
180.7500	-3(	94.7000)	1(464.8499)	
NOTE: .5100 MHz FROM RECEIVED FREQUENCY CH08+V				181.2600
740.3000	-2(	94.7000)	2(464.8499)	
NOTE: 1.4705 MHz FROM RECEIVED FREQUENCY CH58 C				738.8295
740.3000	-2(	94.7000)	2(464.8499)	
NOTE: .5500 MHz FROM RECEIVED FREQUENCY CH58 A				739.7500
198.0500	7(	94.7000)	-1(464.8499)	
NOTE: 1.2305 MHz FROM RECEIVED FREQUENCY CH10-C				196.8195
198.0500	7(	94.7000)	-1(464.8499)	
NOTE: .3100 MHz FROM RECEIVED FREQUENCY CH10-A				197.7400
213.7500	-5(	94.7000)	1(687.2500)	
NOTE: 2.5000 MHz FROM RECEIVED FREQUENCY CH13 V				211.2500
213.7500	-5(	94.7000)	1(687.2500)	
NOTE: 1.0795 MHz FROM RECEIVED FREQUENCY CH13 C				214.8295
213.7500	-5(	94.7000)	1(687.2500)	
NOTE: 2.0000 MHz FROM RECEIVED FREQUENCY CH13 A				215.7500
218.2500	-5(	94.7000)	1(691.7500)	
NOTE: 2.5000 MHz FROM RECEIVED FREQUENCY CH13 A				215.7500
65.8500	8(	94.7000)	-1(691.7500)	
NOTE: 1.0105 MHz FROM RECEIVED FREQUENCY CH03+C				64.8395
65.8500	8(	94.7000)	-1(691.7500)	
NOTE: .0900 MHz FROM RECEIVED FREQUENCY CH03+A				65.7600
736.9000	-8(	94.7000)	2(747.2500)	
NOTE: 1.6500 MHz FROM RECEIVED FREQUENCY CH58 V				735.2500
736.9000	-8(	94.7000)	2(747.2500)	
NOTE: 1.9294 MHz FROM RECEIVED FREQUENCY CH58 C				738.8295
736.9000	-8(	94.7000)	2(747.2500)	
NOTE: 2.8500 MHz FROM RECEIVED FREQUENCY CH58 A				739.7500
84.3500	-7(	94.7000)	1(747.2500)	
NOTE: 2.6100 MHz FROM RECEIVED FREQUENCY CH05-A				81.7400
179.0500	-6(	94.7000)	1(747.2500)	
NOTE: 2.2100 MHz FROM RECEIVED FREQUENCY CH08+V				181.2600
183.5500	-6(	94.7000)	1(751.7501)	
NOTE: 2.2900 MHz FROM RECEIVED FREQUENCY CH08+V				181.2600
183.5500	-6(	94.7000)	1(751.7501)	
NOTE: 1.2895 MHz FROM RECEIVED FREQUENCY CH08+C				184.8395
183.5500	-6(	94.7000)	1(751.7501)	
NOTE: 2.2100 MHz FROM RECEIVED FREQUENCY CH08+A				185.7600

INTERMODULATION STUDY

FREQ (MHz)	COMPONENTS		
215.0500	-6(94.7000)	1(783.2500)	
NOTE: .2205 MHz FROM RECEIVED FREQUENCY CH13 C			214.8295
215.0500	-6(94.7000)	1(783.2500)	
NOTE: .7000 MHz FROM RECEIVED FREQUENCY CH13 A			215.7500
64.5500	9(94.7000)	-1(787.7500)	
NOTE: .2895 MHz FROM RECEIVED FREQUENCY CH03+C			64.8395
64.5500	9(94.7000)	-1(787.7500)	
NOTE: 1.2100 MHz FROM RECEIVED FREQUENCY CH03+A			65.7600
738.2000	-9(94.7000)	2(795.2501)	
NOTE: 2.9500 MHz FROM RECEIVED FREQUENCY CH58 V			735.2500
738.2000	-9(94.7000)	2(795.2501)	
NOTE: .6295 MHz FROM RECEIVED FREQUENCY CH58 C			738.8295
738.2000	-9(94.7000)	2(795.2501)	
NOTE: 1.5500 MHz FROM RECEIVED FREQUENCY CH58 A			739.7500
511.1500	-3(94.7000)	1(795.2501)	
NOTE: 2.1000 MHz FROM RECEIVED FREQUENCY CH21 V			513.2500
515.6500	-3(94.7000)	1(799.7500)	
NOTE: 2.4000 MHz FROM RECEIVED FREQUENCY CH21 V			513.2500
515.6500	-3(94.7000)	1(799.7500)	
NOTE: 1.1794 MHz FROM RECEIVED FREQUENCY CH21 C			516.8294
515.6500	-3(94.7000)	1(799.7500)	
NOTE: 2.1000 MHz FROM RECEIVED FREQUENCY CH21 A			517.7500
192.3500	-7(94.7000)	1(855.2500)	
NOTE: .8900 MHz FROM RECEIVED FREQUENCY CH10-V			193.2400
192.3500	-7(94.7000)	1(855.2500)	
NOTE: 1.5205 MHz FROM RECEIVED FREQUENCY CH09 C			190.8295
192.3500	-7(94.7000)	1(855.2500)	
NOTE: .6000 MHz FROM RECEIVED FREQUENCY CH09 A			191.7500
476.4501	-4(94.7000)	1(855.2500)	
NOTE: .7900 MHz FROM RECEIVED FREQUENCY CH15-V			477.2400
196.8500	-7(94.7000)	1(859.7500)	
NOTE: .0305 MHz FROM RECEIVED FREQUENCY CH10-C			196.8195
196.8500	-7(94.7000)	1(859.7500)	
NOTE: .8900 MHz FROM RECEIVED FREQUENCY CH10-A			197.7400
480.9500	-4(94.7000)	1(859.7500)	
NOTE: .1305 MHz FROM RECEIVED FREQUENCY CH15-C			480.8195
480.9500	-4(94.7000)	1(859.7500)	
NOTE: .7900 MHz FROM RECEIVED FREQUENCY CH15-A			481.7401
216.3500	-7(94.7000)	1(879.2501)	
NOTE: 1.5205 MHz FROM RECEIVED FREQUENCY CH13 C			214.8295
216.3500	-7(94.7000)	1(879.2501)	
NOTE: .6000 MHz FROM RECEIVED FREQUENCY CH13 A			215.7500
192.1800	1(94.7000)	2(48.7400)	
NOTE: 1.0600 MHz FROM RECEIVED FREQUENCY CH10-V			193.2400

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FREQ (MHz)	COMPONENTS				
192.1800	1(	94.7000)	2(	48.7400)	
NOTE:	1.3505 MHz FROM	RECEIVED	FREQUENCY	CH09 C	190.8295
192.1800	1(	94.7000)	2(	48.7400)	
NOTE:	.4300 MHz FROM	RECEIVED	FREQUENCY	CH09 A	191.7500
186.6200	3(	94.7000)	-2(	48.7400)	
NOTE:	1.7805 MHz FROM	RECEIVED	FREQUENCY	CH08+C	184.8395
186.6200	3(	94.7000)	-2(	48.7400)	
NOTE:	.8600 MHz FROM	RECEIVED	FREQUENCY	CH08+A	185.7600
476.2800	4(	94.7000)	2(	48.7400)	
NOTE:	.9600 MHz FROM	RECEIVED	FREQUENCY	CH09 V	187.2500
519.4601	6(	94.7000)	-1(	48.7400)	
NOTE:	2.6306 MHz FROM	RECEIVED	FREQUENCY	CH15-V	477.2400
519.4601	6(	94.7000)	-1(	48.7400)	
NOTE:	1.7100 MHz FROM	RECEIVED	FREQUENCY	CH21 C	516.8294
74.9250	-1(	94.7000)	1(	169.6250)	
NOTE:	2.3150 MHz FROM	RECEIVED	FREQUENCY	CH21 A	517.7500
39.5500	4(	94.7000)	-2(	169.6250)	
NOTE:	.0500 MHz FROM	RECEIVED	FREQUENCY	CH05-V	77.2400
209.1750	4(	94.7000)	-1(	169.6250)	
NOTE:	.3555 MHz FROM	RECEIVED	FREQUENCY	RC005	39.5000
209.1750	4(	94.7000)	-1(	169.6250)	
NOTE:	.5650 MHz FROM	RECEIVED	FREQUENCY	CH12-C	208.8195
209.1750	4(	94.7000)	-1(	169.6250)	
NOTE:	2.0750 MHz FROM	RECEIVED	FREQUENCY	CH12-A	209.7400
737.8251	6(	94.7000)	1(	169.6250)	
NOTE:	2.5750 MHz FROM	RECEIVED	FREQUENCY	CH13 V	211.2500
737.8251	6(	94.7000)	1(	169.6250)	
NOTE:	1.0045 MHz FROM	RECEIVED	FREQUENCY	CH58 V	735.2500
737.8251	6(	94.7000)	1(	169.6250)	
NOTE:	1.9250 MHz FROM	RECEIVED	FREQUENCY	CH58 C	738.8295
513.0500	9(	94.7000)	-2(	169.6250)	
NOTE:	.2000 MHz FROM	RECEIVED	FREQUENCY	CH58 A	739.7500
74.4000	-1(	94.7000)	1(	169.1000)	
NOTE:	2.8400 MHz FROM	RECEIVED	FREQUENCY	CH21 V	513.2500
209.7000	4(	94.7000)	-1(	169.1000)	
NOTE:	.8805 MHz FROM	RECEIVED	FREQUENCY	CH05-V	77.2400
209.7000	4(	94.7000)	-1(	169.1000)	
NOTE:	.0400 MHz FROM	RECEIVED	FREQUENCY	CH12-C	208.8195
209.7000	4(	94.7000)	-1(	169.1000)	
NOTE:	1.5500 MHz FROM	RECEIVED	FREQUENCY	CH12-A	209.7400
737.3001	6(	94.7000)	1(	169.1000)	
NOTE:	2.0500 MHz FROM	RECEIVED	FREQUENCY	CH13 V	211.2500
				CH58 V	735.2500

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FREQ (MHz)	COMPONENTS		
737.3001	6(94.7000)	1(169.1000)	
NOTE: 1.5294 MHz FROM RECEIVED FREQUENCY CH58 C			738.8295
737.3001	6(94.7000)	1(169.1000)	
NOTE: 2.4500 MHz FROM RECEIVED FREQUENCY CH58 A			739.7500
514.1000	9(94.7000)	-2(169.1000)	
NOTE: .8500 MHz FROM RECEIVED FREQUENCY CH21 V			513.2500
514.1000	9(94.7000)	-2(169.1000)	
NOTE: 2.7295 MHz FROM RECEIVED FREQUENCY CH21 C			516.8294
77.7501	-8(94.7000)	2(417.6750)	
NOTE: .5101 MHz FROM RECEIVED FREQUENCY CH05-V			77.2400
740.6501	-1(94.7000)	2(417.6750)	
NOTE: 1.8206 MHz FROM RECEIVED FREQUENCY CH58 C			738.8295
740.6501	-1(94.7000)	2(417.6750)	
NOTE: .9000 MHz FROM RECEIVED FREQUENCY CH58 A			739.7500
512.3750	1(94.7000)	1(417.6750)	
NOTE: .8750 MHz FROM RECEIVED FREQUENCY CH21 V			513.2500
517.8000	2(94.7000)	2(164.2000)	
NOTE: .9705 MHz FROM RECEIVED FREQUENCY CH21 C			516.8294
517.8000	2(94.7000)	2(164.2000)	
NOTE: .0500 MHz FROM RECEIVED FREQUENCY CH21 A			517.7500
214.6000	4(94.7000)	-1(164.2000)	
NOTE: .2295 MHz FROM RECEIVED FREQUENCY CH13 C			214.8295
214.6000	4(94.7000)	-1(164.2000)	
NOTE: 1.1500 MHz FROM RECEIVED FREQUENCY CH13 A			215.7500
732.4001	6(94.7000)	1(164.2000)	
NOTE: 2.8500 MHz FROM RECEIVED FREQUENCY CH58 V			735.2500
210.5000	4(94.7000)	-1(168.3000)	
NOTE: 1.6805 MHz FROM RECEIVED FREQUENCY CH12-C			208.8195
210.5000	4(94.7000)	-1(168.3000)	
NOTE: .7600 MHz FROM RECEIVED FREQUENCY CH12-A			209.7400
210.5000	4(94.7000)	-1(168.3000)	
NOTE: .7500 MHz FROM RECEIVED FREQUENCY CH13 V			211.2500
736.5000	6(94.7000)	1(168.3000)	
NOTE: 1.2500 MHz FROM RECEIVED FREQUENCY CH58 V			735.2500
736.5000	6(94.7000)	1(168.3000)	
NOTE: 2.3295 MHz FROM RECEIVED FREQUENCY CH58 C			738.8295
515.7000	9(94.7000)	-2(168.3000)	
NOTE: 2.4500 MHz FROM RECEIVED FREQUENCY CH21 V			513.2500
515.7000	9(94.7000)	-2(168.3000)	
NOTE: 1.1295 MHz FROM RECEIVED FREQUENCY CH21 C			516.8294
515.7000	9(94.7000)	-2(168.3000)	
NOTE: 2.0500 MHz FROM RECEIVED FREQUENCY CH21 A			517.7500
74.5250	-1(94.7000)	1(169.2250)	
NOTE: 2.7150 MHz FROM RECEIVED FREQUENCY CH05-V			77.2400

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FREQ (MHz)	COMPONENTS		
209.5750	4(94.7000)	-1(169.2250)	
NOTE:	.7555 MHz FROM RECEIVED FREQUENCY	CH12-C	208.8195
209.5750	4(94.7000)	-1(169.2250)	
NOTE:	.1650 MHz FROM RECEIVED FREQUENCY	CH12-A	209.7400
737.4251	6(94.7000)	1(169.2250)	
NOTE:	1.6750 MHz FROM RECEIVED FREQUENCY	CH13 V	211.2500
737.4251	6(94.7000)	1(169.2250)	
NOTE:	2.1750 MHz FROM RECEIVED FREQUENCY	CH58 V	735.2500
737.4251	6(94.7000)	1(169.2250)	
NOTE:	1.4044 MHz FROM RECEIVED FREQUENCY	CH58 C	738.8295
737.4251	6(94.7000)	1(169.2250)	
NOTE:	2.3250 MHz FROM RECEIVED FREQUENCY	CH58 A	739.7500
513.8500	9(94.7000)	-2(169.2250)	
NOTE:	.6000 MHz FROM RECEIVED FREQUENCY	CH21 V	513.2500
513.8500	9(94.7000)	-2(169.2250)	
NOTE:	2.9795 MHz FROM RECEIVED FREQUENCY	CH21 C	516.8294
81.9501	-8(94.7000)	2(419.7750)	
NOTE:	1.1306 MHz FROM RECEIVED FREQUENCY	CH05-C	80.8195
81.9501	-8(94.7000)	2(419.7750)	
NOTE:	.2101 MHz FROM RECEIVED FREQUENCY	CH05-A	81.7400
514.4750	1(94.7000)	1(419.7750)	
NOTE:	1.2250 MHz FROM RECEIVED FREQUENCY	CH21 V	513.2500
514.4750	1(94.7000)	1(419.7750)	
NOTE:	2.3544 MHz FROM RECEIVED FREQUENCY	CH21 C	516.8294
82.2501	-9(94.7000)	2(467.2750)	
NOTE:	1.4305 MHz FROM RECEIVED FREQUENCY	CH05-C	80.8195
82.2501	-9(94.7000)	2(467.2750)	
NOTE:	.5101 MHz FROM RECEIVED FREQUENCY	CH05-A	81.7400
183.1750	-3(94.7000)	1(467.2750)	
NOTE:	1.9150 MHz FROM RECEIVED FREQUENCY	CH08+V	181.2600
183.1750	-3(94.7000)	1(467.2750)	
NOTE:	1.6645 MHz FROM RECEIVED FREQUENCY	CH08+C	184.8395
183.1750	-3(94.7000)	1(467.2750)	
NOTE:	2.5850 MHz FROM RECEIVED FREQUENCY	CH08+A	185.7600
195.6250	7(94.7000)	-1(467.2750)	
NOTE:	2.3849 MHz FROM RECEIVED FREQUENCY	CH10-V	193.2400
195.6250	7(94.7000)	-1(467.2750)	
NOTE:	1.1946 MHz FROM RECEIVED FREQUENCY	CH10-C	196.8195
195.6250	7(94.7000)	-1(467.2750)	
NOTE:	2.1151 MHz FROM RECEIVED FREQUENCY	CH10-A	197.7400
518.5501	2(94.7000)	2(164.5750)	
NOTE:	1.7206 MHz FROM RECEIVED FREQUENCY	CH21 C	516.8294
518.5501	2(94.7000)	2(164.5750)	
NOTE:	.8000 MHz FROM RECEIVED FREQUENCY	CH21 A	517.7500

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INTERMODULATION STUDY

FREQ (MHz)	COMPONENTS			
214.2250	4(94.7000)	-1(164.5750)		
NOTE:	2.9750 MHz FROM	RECEIVED FREQUENCY	CH13 V	211.2500
214.2250	4(94.7000)	-1(164.5750)		
NOTE:	.6045 MHz FROM	RECEIVED FREQUENCY	CH13 C	214.8295
214.2250	4(94.7000)	-1(164.5750)		
NOTE:	1.5250 MHz FROM	RECEIVED FREQUENCY	CH13 A	215.7500
732.7751	6(94.7000)	1(164.5750)		
NOTE:	2.4750 MHz FROM	RECEIVED FREQUENCY	CH58 V	735.2500
76.9501	-8(94.7000)	2(417.2750)		
NOTE:	.2899 MHz FROM	RECEIVED FREQUENCY	CH05-V	77.2400
739.8500	-1(94.7000)	2(417.2750)		
NOTE:	1.0206 MHz FROM	RECEIVED FREQUENCY	CH58 C	738.8295
739.8500	-1(94.7000)	2(417.2750)		
NOTE:	.1000 MHz FROM	RECEIVED FREQUENCY	CH58 A	739.7500
511.9750	1(94.7000)	1(417.2750)		
NOTE:	1.2750 MHz FROM	RECEIVED FREQUENCY	CH21 V	513.2500

END OF STUDY; 228 RESULTANTS PRINTED

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INTERMODULATION STUDY
SUMMARY OF POSSIBLE INTERFERENCE

CHANNEL 3 (60 - 66)

60.530	4	(	94.7000)	- 2	(159.1350)
61.270	-1	(	94.7000)	+ 1	(155.9700)
61.450	-1	(	94.7000)	+ 1	(156.1500)
61.800	-3	(	94.7000)	+ 2	(172.9500)
62.180	4	(	94.7000)	- 2	(158.3100)
63.610	-1	(	94.7000)	+ 1	(158.3100)
64.435	-1	(	94.7000)	+ 1	(159.1350)

CHANNEL 5 (76 - 82)

78.250	-1	(	94.7000)	+ 1	(172.9500)

CHANNEL 8 (180 - 186)

180.300	-3	(	94.7000)	+ 1	(464.4000)
180.500	-3	(	94.7000)	+ 1	(464.6000)
180.600	-3	(	94.7000)	- 1	(464.7000)
180.750	-3	(	94.7000)	+ 1	(464.8500)
183.175	-3	(	94.7000)	+ 1	(467.2750)
185.100	1	(	94.7000)	+ 2	(45.2000)

CHANNEL 9 (186 - 192)

189.400	2	(	94.7000)			

CHANNEL 10 (192 - 198)

193.700	3	(	94.7000)	- 2	(45.2000)

CHANNEL 12 (204 - 210)

205.850	4	(	94.7000)	- 1	(172.9500)
209.175	4	(	94.7000)	- 1	(169.6250)
209.540	-1	(	94.7000)	+ 2	(152.1200)
209.575	4	(	94.7000)	- 1	(169.2250)
209.700	4	(	94.7000)	- 1	(169.1000)

CHANNEL 15 (476 - 482)

476.280	4	(	94.7000)	+ 2	(48.7400)
476.4501	-4	(	94.7000)	+ 1	(855.2500)
480.950	-4	(	94.7000)	+ 1	(859.7500)

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INTERMODULATION STUDY
SUMMARY OF POSSIBLE INTERFERENCE

CHANNEL 21 (512 - 518)

512.375	1	(	94.7000)	+	1	(417.6750)
514.475	1	(	94.7000)	+	1	(419.7750)
515.650	-3	(	94.7000)	+	1	(799.7500)
516.750	2	(	94.7000)	+	2	(163.6750)
517.700	2	(	94.7000)	+	2	(164.1500)
517.800	2	(	94.7000)	+	2	(164.2000)

CHANNEL 58 (734 - 740)

735.8751	3	(	94.7000)	+	1	(451.7750)
739.8001	-2	(	94.7000)	+	2	(464.6000)
739.850	-1	(	94.7000)	+	2	(417.2750)
740.0001	-2	(	94.7000)	+	2	(464.7000)

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INTERMODULATION STUDY

THIS STUDY CHECKS COMBINATIONS OF ANY THREE TRANSMITTING FREQUENCIES (INCLUDING HARMONICS) AGAINST SPECIFIED RECEIVED FREQUENCIES. ANY SUM WITHIN .050 MHz OF A RECEIVED FREQUENCY IS PRINTED FOR STUDY. (OR WITHIN .050 MHz OF FM CHANNELS, .050 MHz OF TV CHANNELS)

TRANSMITTING FACILITIES			RECEIVING FACILITIES	
CALL	FREQ (MHz)		CALL	FREQ (MHz)
KZZZ	94.7000	9	RC001	48.3800
TX001	47.8200	2	RC002	35.1600
TX002	35.1600	2	RC003	48.2400
TX003	47.7400	2	RC004	45.2000
TX004	45.2000	2	RC005	39.5000
TX005	146.7600	2	RC006	146.1600
TX006	152.1200	2	RC007	158.5800
TX007	153.2000	2	RC008	158.2800
TX008	154.3550	2	RC009	153.8900
TX009	155.9700	2	RC010	155.9700
TX010	156.1500	2	RC011	155.5350
TX011	158.3100	2	RC012	153.2900
TX012	159.1350	2	RC013	156.0450
TX013	164.1500	2	RC014	164.9375
TX014	163.6750	2	RC015	162.9250
TX015	172.9500	2	RC016	172.1500
TX016	413.6750	2	RC017	408.3000
TX017	451.7750	2	RC018	456.7750
TX018	464.4000	2	RC019	469.4000
TX019	464.6000	2	RC020	469.6001
TX020	464.7001	2	RC021	469.7000
TX021	464.8499	2	RC022	469.8500
CH50 V	687.2500	2	CH12-V	205.2400
CH50 A	691.7500	2	CH12-C	208.8195
CH60 V	747.2500	2	CH12-A	209.7400
CH60 A	751.7501	2	CH58 V	735.2500
CH66 V	783.2500	2	CH58 C	738.8295
CH66 A	787.7500	2	CH58 A	739.7500
CH68 V	795.2501	2	CH05-V	77.2400
CH68 A	799.7500	2	CH05-C	80.8195
CH70 V	807.2501	2	CH05-A	81.7400
CH70 A	811.7501	2	CH08+V	181.2600
CH78 V	855.2500	2	CH08+C	184.8395
CH78 A	859.7500	2	CH08+A	185.7600
CH82 V	879.2501	2	CH03+V	61.2600
CH82 A	883.7500	2	CH03+C	64.8395
TX0038	2118.7999	2	CH03+A	65.7600
TX039	12530.0002	2	CH10-V	193.2400
TX040	12469.9997	2	CH10-C	196.8195

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INTERMODULATION STUDY

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TRANSMITTING FACILITIES	
CALL	FREQ (MHz)
TX041	12489.9995 2
TX042	12510.0004 2
TX043	12730.0000 2
TX044	12899.9996 2
TX045	12774.9991 2
TX046	12875.0002 2
TX047	12925.0001 2
TX048	48.7400 2
TX049	1875.0000 2
TX050	1885.0000 2
TX051	1950.0000 2
TX052	169.6250 2
TX053	169.1000 2
TX054	417.6750 2
TX055	164.2000 2
TX056	168.3000 2
TX057	169.2250 2
TX058	419.7750 2
TX059	467.2750 2
TX060	164.5750 2
TX061	417.2750 2

RECEIVING FACILITIES	
CALL	FREQ (MHz)
CH10-A	197.7400
RC035	12250.0002
RC036	12230.0004
RC037	12269.9999
RC038	12209.9995
CH09 V	187.2500
CH09 C	190.8295
CH09 A	191.7500
CH13 V	211.2500
CH13 C	214.8295
CH13 A	215.7500
CH15-V	477.2400
CH15-C	480.8195
CH15-A	481.7401
CH21 V	513.2500
CH21 C	516.8294
CH21 A	517.7500
RC047	48.7400
RC048	1895.0000
RC049	1945.0000
RC050	1985.0001
RC051	172.7750
RC052	169.1000
RC053	414.8250
RC054	164.1250
RC055	408.5750
RC056	164.7250
RC057	168.3000
RC058	414.9750
RC059	462.2750
RC060	2168.7998

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INTERMODULATION STUDY

FREQ (MHz)	COMPONENTS
164.0800	2(94.7000) -2(47.8200) 2(35.1600)
NOTE:	.0450 MHz FROM RECEIVED FREQUENCY RC054 164.1250
153.3000	3(94.7000) -2(47.8200) -1(35.1600)
NOTE:	.0100 MHz FROM RECEIVED FREQUENCY RC012 153.2900
517.7600	6(94.7000) -2(47.8200) 1(45.2000)
NOTE:	.0100 MHz FROM RECEIVED FREQUENCY CH21 A 517.7500
168.3200	6(94.7000) -2(47.8200) -2(152.1200)
NOTE:	.0200 MHz FROM RECEIVED FREQUENCY RC057 168.3000
414.7850	5(94.7000) 2(47.8200) -1(154.3550)
NOTE:	.0400 MHz FROM RECEIVED FREQUENCY RC053 414.8250
205.1900	1(94.7000) -1(47.8200) 1(158.3100)
NOTE:	.0500 MHz FROM RECEIVED FREQUENCY CH12-V 205.2400
61.2400	5(94.7000) -2(47.8200) -2(158.3100)
NOTE:	.0200 MHz FROM RECEIVED FREQUENCY CH03+V 61.2600
155.9400	6(94.7000) -2(47.8200) -2(158.3100)
NOTE:	.0300 MHz FROM RECEIVED FREQUENCY RC010 155.9700
456.7699	7(94.7000) -1(47.8200) -1(158.3100)
NOTE:	.0051 MHz FROM RECEIVED FREQUENCY RC018 456.7750
35.1100	-4(94.7000) 2(47.8200) 2(159.1350)
NOTE:	.0500 MHz FROM RECEIVED FREQUENCY RC002 35.1600
172.7850	3(94.7000) 1(47.8200) -1(159.1350)
NOTE:	.0100 MHz FROM RECEIVED FREQUENCY RC051 172.7750
185.7800	-1(94.7000) -1(47.8200) 2(164.1500)
NOTE:	.0200 MHz FROM RECEIVED FREQUENCY CH08+A 185.7600
469.8800	2(94.7000) -1(47.8200) 2(164.1500)
NOTE:	.0301 MHz FROM RECEIVED FREQUENCY RC022 469.8500
146.1400	4(94.7000) 2(47.8200) -2(164.1500)
NOTE:	.0200 MHz FROM RECEIVED FREQUENCY RC006 146.1600
185.7700	-2(94.7000) 1(47.8200) 2(163.6750)
NOTE:	.0100 MHz FROM RECEIVED FREQUENCY CH08+A 185.7600
184.8300	-1(94.7000) -1(47.8200) 2(163.6750)
NOTE:	.0095 MHz FROM RECEIVED FREQUENCY CH08+C 184.8395
469.8701	1(94.7000) 1(47.8200) 2(163.6750)
NOTE:	.0201 MHz FROM RECEIVED FREQUENCY RC022 469.8500
155.5600	-1(94.7000) -2(47.8200) 2(172.9500)
NOTE:	.0250 MHz FROM RECEIVED FREQUENCY RC011 155.5350
81.7550	-3(94.7000) -1(47.8200) 1(413.6750)
NOTE:	.0150 MHz FROM RECEIVED FREQUENCY CH05-A 81.7400
172.1400	-9(94.7000) 2(47.8200) 2(464.4000)
NOTE:	.0100 MHz FROM RECEIVED FREQUENCY RC016 172.1500
181.2400	-4(94.7000) 2(47.8200) 1(464.4000)
NOTE:	.0200 MHz FROM RECEIVED FREQUENCY CH08+V 181.2600
738.8600	-1(94.7000) -2(47.8200) 2(464.6000)
NOTE:	.0306 MHz FROM RECEIVED FREQUENCY CH58 C 738.8295

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INTERMODULATION STUDY

FREQ (MHz)	COMPONENTS							
172.7401	-9(	94.7000)	2(	47.8200)	2(	464.7001)		
NOTE:	.0350 MHz FROM	RECEIVED	FREQUENCY	RC051		172.7750		
408.5900	-4(	94.7000)	2(	47.8200)	1(	691.7500)		
NOTE:	.0150 MHz FROM	RECEIVED	FREQUENCY	RC055		408.5750		
164.6900	9(	94.7000)	2(	47.8200)	-1(	783.2500)		
NOTE:	.0350 MHz FROM	RECEIVED	FREQUENCY	RC056		164.7250		
456.7700	-4(	94.7000)	1(	47.8200)	1(	787.7500)		
NOTE:	.0050 MHz FROM	RECEIVED	FREQUENCY	RC018		456.7750		
48.7100	-7(	94.7000)	-2(	47.8200)	1(	807.2501)		
NOTE:	.0300 MHz FROM	RECEIVED	FREQUENCY	RC047		48.7400		
480.7700	-4(	94.7000)	1(	47.8200)	1(	811.7501)		
NOTE:	.0495 MHz FROM	RECEIVED	FREQUENCY	CH15-C		480.8195		
477.2201	3(	94.7000)	2(	47.8200)	2(	48.7400)		
NOTE:	.0200 MHz FROM	RECEIVED	FREQUENCY	CH15-V		477.2400		
481.7700	1(	94.7000)	1(	47.8200)	2(	169.6250)		
NOTE:	.0300 MHz FROM	RECEIVED	FREQUENCY	CH15-A		481.7401		
480.8300	2(	94.7000)	-1(	47.8200)	2(	169.6250)		
NOTE:	.0106 MHz FROM	RECEIVED	FREQUENCY	CH15-C		480.8195		
45.2400	-4(	94.7000)	2(	47.8200)	2(	164.2000)		
NOTE:	.0400 MHz FROM	RECEIVED	FREQUENCY	RC004		45.2000		
516.8600	3(	94.7000)	-2(	47.8200)	2(	164.2000)		
NOTE:	.0305 MHz FROM	RECEIVED	FREQUENCY	CH21 C		516.8294		
168.2850	1(	94.7000)	-2(	47.8200)	1(	169.2250)		
NOTE:	.0150 MHz FROM	RECEIVED	FREQUENCY	RC057		168.3000		
48.7100	5(	94.7000)	-2(	47.8200)	-2(	164.5750)		
NOTE:	.0300 MHz FROM	RECEIVED	FREQUENCY	RC047		48.7400		
39.4600	1(	94.7000)	1(	35.1600)	-2(	45.2000)		
NOTE:	.0400 MHz FROM	RECEIVED	FREQUENCY	RC005		39.5000		
158.5400	3(	94.7000)	-1(	35.1600)	-2(	45.2000)		
NOTE:	.0400 MHz FROM	RECEIVED	FREQUENCY	RC007		158.5800		
164.9050	3(	94.7000)	1(	35.1600)	-1(	154.3550)		
NOTE:	.0325 MHz FROM	RECEIVED	FREQUENCY	RC014		164.9375		
480.8199	8(	94.7000)	1(	35.1600)	-2(	155.9700)		
NOTE:	.0005 MHz FROM	RECEIVED	FREQUENCY	CH15-C		480.8195		
193.2200	-2(	94.7000)	2(	35.1600)	2(	156.1500)		
NOTE:	.0200 MHz FROM	RECEIVED	FREQUENCY	CH10-V		193.2400		
469.6799	9(	94.7000)	-2(	35.1600)	-2(	156.1500)		
NOTE:	.0201 MHz FROM	RECEIVED	FREQUENCY	RC021		469.7000		
181.2600	6(	94.7000)	-2(	35.1600)	-2(	158.3100)		
NOTE:	.0000 MHz FROM	RECEIVED	FREQUENCY	CH08+V		181.2600		
469.4301	7(	94.7000)	-1(	35.1600)	-1(	158.3100)		
NOTE:	.0300 MHz FROM	RECEIVED	FREQUENCY	RC019		469.4000		
153.2500	-1(	94.7000)	-2(	35.1600)	2(	159.1350)		
NOTE:	.0400 MHz FROM	RECEIVED	FREQUENCY	RC012		153.2900		

INTERMODULATION STUDY

FREQ (MHz)	COMPONENTS						
414.9500	7(	94.7000)	2(	35.1600)	-2(	159.1350)	
NOTE:	.0251 MHz FROM	RECEIVED	FREQUENCY	RC058		414.9750	
155.5850	3(	94.7000)	1(	35.1600)	-1(	163.6750)	
NOTE:	.0500 MHz FROM	RECEIVED	FREQUENCY	RC011		155.5350	
181.3100	5(	94.7000)	1(	35.1600)	-2(	163.6750)	
NOTE:	.0500 MHz FROM	RECEIVED	FREQUENCY	CH08+V		181.2600	
164.7350	-3(	94.7000)	1(	35.1600)	1(	413.6750)	
NOTE:	.0100 MHz FROM	RECEIVED	FREQUENCY	RC056		164.7250	
61.2200	-5(	94.7000)	2(	35.1600)	1(	464.4000)	
NOTE:	.0400 MHz FROM	RECEIVED	FREQUENCY	CH03+V		61.2600	
155.9200	-4(	94.7000)	2(	35.1600)	1(	464.4000)	
NOTE:	.0500 MHz FROM	RECEIVED	FREQUENCY	RC010		155.9700	
215.7600	-3(	94.7000)	1(	35.1600)	1(	464.7001)	
NOTE:	.0100 MHz FROM	RECEIVED	FREQUENCY	CH13 A		215.7500	
162.8900	7(	94.7000)	-1(	35.1600)	-1(	464.8499)	
NOTE:	.0350 MHz FROM	RECEIVED	FREQUENCY	RC015		162.9250	
48.7300	-6(	94.7000)	-2(	35.1600)	1(	687.2500)	
NOTE:	.0100 MHz FROM	RECEIVED	FREQUENCY	RC047		48.7400	
35.1900	8(	94.7000)	-1(	35.1600)	-1(	687.2500)	
NOTE:	.0300 MHz FROM	RECEIVED	FREQUENCY	RC002		35.1600	
155.5100	-7(	94.7000)	1(	35.1600)	1(	783.2500)	
NOTE:	.0250 MHz FROM	RECEIVED	FREQUENCY	RC011		155.5350	
408.5700	-5(	94.7000)	2(	35.1600)	1(	811.7501)	
NOTE:	.0050 MHz FROM	RECEIVED	FREQUENCY	RC055		408.5750	
184.7950	3(	94.7000)	2(	35.1600)	-1(	169.6250)	
NOTE:	.0445 MHz FROM	RECEIVED	FREQUENCY	CH08+C		184.8395	
513.2650	4(	94.7000)	-1(	35.1600)	1(	169.6250)	
NOTE:	.0150 MHz FROM	RECEIVED	FREQUENCY	CH21 V		513.2500	
158.6300	6(	94.7000)	-2(	35.1600)	-2(	169.6250)	
NOTE:	.0500 MHz FROM	RECEIVED	FREQUENCY	RC007		158.5800	
469.4200	6(	94.7000)	2(	35.1600)	-1(	169.1000)	
NOTE:	.0200 MHz FROM	RECEIVED	FREQUENCY	RC019		469.4000	
196.8300	-6(	94.7000)	-2(	35.1600)	2(	417.6750)	
NOTE:	.0105 MHz FROM	RECEIVED	FREQUENCY	CH10-C		196.8195	
477.2150	1(	94.7000)	-1(	35.1600)	1(	417.6750)	
NOTE:	.0250 MHz FROM	RECEIVED	FREQUENCY	CH15-V		477.2400	
739.7801	5(	94.7000)	-2(	35.1600)	2(	168.3000)	
NOTE:	.0300 MHz FROM	RECEIVED	FREQUENCY	CH58 A		739.7500	
172.8049	7(	94.7000)	-2(	35.1600)	-1(	419.7750)	
NOTE:	.0299 MHz FROM	RECEIVED	FREQUENCY	RC051		172.7750	
65.7650	6(	94.7000)	-1(	35.1600)	-1(	467.2750)	
NOTE:	.0050 MHz FROM	RECEIVED	FREQUENCY	CH03+A		65.7600	
164.1300	-1(	94.7000)	-2(	35.1600)	2(	164.5750)	
NOTE:	.0050 MHz FROM	RECEIVED	FREQUENCY	RC054		164.1250	

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INTERMODULATION STUDY

FREQ (MHz)	COMPONENTS							
168.3350	-3(	94.7000)	1(	35.1600)	1(	417.2750)		
NOTE:	.0350 MHz FROM	RECEIVED	FREQUENCY	RC057		168.3000		
48.7200	2(	94.7000)	-2(	47.7400)	-1(	45.2000)		
NOTE:	.0200 MHz FROM	RECEIVED	FREQUENCY	RC047		48.7400		
164.7400	-2(	94.7000)	1(	47.7400)	2(	153.2000)		
NOTE:	.0150 MHz FROM	RECEIVED	FREQUENCY	RC056		164.7250		
214.8400	5(	94.7000)	1(	47.7400)	-2(	153.2000)		
NOTE:	.0105 MHz FROM	RECEIVED	FREQUENCY	CH13 C		214.8295		
214.7900	-2(	94.7000)	2(	47.7400)	2(	154.3550)		
NOTE:	.0395 MHz FROM	RECEIVED	FREQUENCY	CH13 C		214.8295		
735.2500	4(	94.7000)	1(	47.7400)	2(	154.3550)		
NOTE:	.0000 MHz FROM	RECEIVED	FREQUENCY	CH58 V		735.2500		
738.8400	4(	94.7000)	1(	47.7400)	2(	156.1500)		
NOTE:	.0106 MHz FROM	RECEIVED	FREQUENCY	CH58 C		738.8295		
65.7200	5(	94.7000)	-2(	47.7400)	-2(	156.1500)		
NOTE:	.0400 MHz FROM	RECEIVED	FREQUENCY	CH03+A		65.7600		
205.2700	1(	94.7000)	-1(	47.7400)	1(	158.3100)		
NOTE:	.0300 MHz FROM	RECEIVED	FREQUENCY	CH12-V		205.2400		
172.7500	4(	94.7000)	-1(	47.7400)	-1(	158.3100)		
NOTE:	.0250 MHz FROM	RECEIVED	FREQUENCY	RC051		172.7750		
77.2250	3(	94.7000)	-1(	47.7400)	-1(	159.1350)		
NOTE:	.0150 MHz FROM	RECEIVED	FREQUENCY	CH05-V		77.2400		
61.3100	3(	94.7000)	2(	47.7400)	-2(	159.1350)		
NOTE:	.0500 MHz FROM	RECEIVED	FREQUENCY	CH03+V		61.2600		
156.0100	4(	94.7000)	2(	47.7400)	-2(	159.1350)		
NOTE:	.0400 MHz FROM	RECEIVED	FREQUENCY	RC010		155.9700		
156.0100	4(	94.7000)	2(	47.7400)	-2(	159.1350)		
NOTE:	.0350 MHz FROM	RECEIVED	FREQUENCY	RC013		156.0450		
456.8050	6(	94.7000)	1(	47.7400)	-1(	159.1350)		
NOTE:	.0300 MHz FROM	RECEIVED	FREQUENCY	RC018		456.7750		
408.2850	7(	94.7000)	-2(	47.7400)	-1(	159.1350)		
NOTE:	.0150 MHz FROM	RECEIVED	FREQUENCY	RC017		408.3000		
164.9300	-1(	94.7000)	2(	47.7400)	1(	164.1500)		
NOTE:	.0075 MHz FROM	RECEIVED	FREQUENCY	RC014		164.9375		
162.8950	1(	94.7000)	-2(	47.7400)	1(	163.6750)		
NOTE:	.0300 MHz FROM	RECEIVED	FREQUENCY	RC015		162.9250		
477.2099	9(	94.7000)	-1(	47.7400)	-2(	163.6750)		
NOTE:	.0301 MHz FROM	RECEIVED	FREQUENCY	CH15-V		477.2400		
172.1700	1(	94.7000)	-2(	47.7400)	1(	172.9500)		
NOTE:	.0200 MHz FROM	RECEIVED	FREQUENCY	RC016		172.1500		
164.1650	6(	94.7000)	1(	47.7400)	-1(	451.7750)		
NOTE:	.0400 MHz FROM	RECEIVED	FREQUENCY	RC054		164.1250		
408.3400	-6(	94.7000)	1(	47.7400)	2(	464.4000)		
NOTE:	.0400 MHz FROM	RECEIVED	FREQUENCY	RC017		408.3000		

INTERMODULATION STUDY

FREQ (MHz)	COMPONENTS					
408.3499	7(	94.7000)	-2(	45.2000)	-1(	164.1500)
NOTE: .0500 MHz FROM RECEIVED FREQUENCY RC017						408.3000
172.8000	5(	94.7000)	1(	45.2000)	-2(	172.9500)
NOTE: .0250 MHz FROM RECEIVED FREQUENCY RC051						172.7750
77.2750	-3(	94.7000)	-2(	45.2000)	1(	451.7750)
NOTE: .0350 MHz FROM RECEIVED FREQUENCY CH05-V						77.2400
80.8000	-8(	94.7000)	-2(	45.2000)	2(	464.4000)
NOTE: .0195 MHz FROM RECEIVED FREQUENCY CH05-C						80.8195
153.2999	7(	94.7000)	-1(	45.2000)	-1(	464.4000)
NOTE: .0100 MHz FROM RECEIVED FREQUENCY RC012						153.2900
184.8000	-2(	94.7000)	-2(	45.2000)	1(	464.6000)
NOTE: .0395 MHz FROM RECEIVED FREQUENCY CH08+C						184.8395
81.7000	-8(	94.7000)	-2(	45.2000)	2(	464.8499)
NOTE: .0400 MHz FROM RECEIVED FREQUENCY CH05-A						81.7400
81.7500	-5(	94.7000)	2(	45.2000)	1(	464.8499)
NOTE: .0100 MHz FROM RECEIVED FREQUENCY CH05-A						81.7400
48.2500	8(	94.7000)	2(	45.2000)	-1(	799.7500)
NOTE: .0100 MHz FROM RECEIVED FREQUENCY RC003						48.2400
408.5250	3(	94.7000)	-1(	45.2000)	1(	169.6250)
NOTE: .0500 MHz FROM RECEIVED FREQUENCY RC055						408.5750
184.8000	6(	94.7000)	-1(	45.2000)	-2(	169.1000)
NOTE: .0395 MHz FROM RECEIVED FREQUENCY CH08+C						184.8395
408.2999	7(	94.7000)	-2(	45.2000)	-1(	164.2000)
NOTE: .0000 MHz FROM RECEIVED FREQUENCY RC017						408.3000
48.2000	-4(	94.7000)	2(	45.2000)	2(	168.3000)
NOTE: .0400 MHz FROM RECEIVED FREQUENCY RC003						48.2400
480.8000	2(	94.7000)	-1(	45.2000)	2(	168.3000)
NOTE: .0195 MHz FROM RECEIVED FREQUENCY CH15-C						480.8195
214.8000	5(	94.7000)	-2(	45.2000)	-1(	168.3000)
NOTE: .0295 MHz FROM RECEIVED FREQUENCY CH13 C						214.8295
164.9250	-1(	94.7000)	2(	45.2000)	1(	169.2250)
NOTE: .0125 MHz FROM RECEIVED FREQUENCY RC014						164.9375
205.2750	3(	94.7000)	2(	45.2000)	-1(	169.2250)
NOTE: .0350 MHz FROM RECEIVED FREQUENCY CH12-V						205.2400
414.8499	7(	94.7000)	2(	45.2000)	-2(	169.2250)
NOTE: .0250 MHz FROM RECEIVED FREQUENCY RC053						414.8250
181.2501	-7(	94.7000)	-2(	45.2000)	2(	467.2750)
NOTE: .0099 MHz FROM RECEIVED FREQUENCY CH08+V						181.2600
456.7500	-6(	94.7000)	2(	45.2000)	2(	467.2750)
NOTE: .0250 MHz FROM RECEIVED FREQUENCY RC018						456.7750
146.1250	6(	94.7000)	1(	45.2000)	-1(	467.2750)
NOTE: .0350 MHz FROM RECEIVED FREQUENCY RC006						146.1600
164.7250	3(	94.7000)	1(	45.2000)	-1(	164.5750)
NOTE: .0000 MHz FROM RECEIVED FREQUENCY RC056						164.7250

INTERMODULATION STUDY

FREQ (MHz)	COMPONENTS					
169.0600	-3(	94.7000)	1(	146.7600)	2(	153.2000)
NOTE: .0400 MHz FROM	RECEIVED FREQUENCY	RC052				169.1000
205.2600	-1(	94.7000)	1(	146.7600)	1(	153.2000)
NOTE: .0200 MHz FROM	RECEIVED FREQUENCY	CH12-V				205.2400
408.5600	6(	94.7000)	1(	146.7600)	-2(	153.2000)
NOTE: .0150 MHz FROM	RECEIVED FREQUENCY	RC055				408.5750
209.7399	7(	94.7000)	-1(	146.7600)	-2(	153.2000)
NOTE: .0000 MHz FROM	RECEIVED FREQUENCY	CH12-A				209.7400
738.8200	8(	94.7000)	2(	146.7600)	-2(	156.1500)
NOTE: .0095 MHz FROM	RECEIVED FREQUENCY	CH58 C				738.8295
739.7101	6(	94.7000)	-1(	146.7600)	2(	159.1350)
NOTE: .0399 MHz FROM	RECEIVED FREQUENCY	CH58 A				739.7500
205.2300	7(	94.7000)	-2(	146.7600)	-1(	164.1500)
NOTE: .0100 MHz FROM	RECEIVED FREQUENCY	CH12-V				205.2400
215.7350	-1(	94.7000)	1(	146.7600)	1(	163.6750)
NOTE: .0150 MHz FROM	RECEIVED FREQUENCY	CH13 A				215.7500
35.1450	-1(	94.7000)	2(	146.7600)	-1(	163.6750)
NOTE: .0150 MHz FROM	RECEIVED FREQUENCY	RC002				35.1600
155.5699	2(	94.7000)	2(	146.7600)	-2(	163.6750)
NOTE: .0349 MHz FROM	RECEIVED FREQUENCY	RC011				155.5350
517.7950	-2(	94.7000)	2(	146.7600)	1(	413.6750)
NOTE: .0450 MHz FROM	RECEIVED FREQUENCY	CH21 A				517.7500
214.8550	1(	94.7000)	-2(	146.7600)	1(	413.6750)
NOTE: .0255 MHz FROM	RECEIVED FREQUENCY	CH13 C				214.8295
155.5600	5(	94.7000)	1(	146.7600)	-1(	464.7001)
NOTE: .0250 MHz FROM	RECEIVED FREQUENCY	RC011				155.5350
146.1399	8(	94.7000)	-1(	146.7600)	-1(	464.7001)
NOTE: .0201 MHz FROM	RECEIVED FREQUENCY	RC006				146.1600
208.8300	-2(	94.7000)	-2(	146.7600)	1(	691.7500)
NOTE: .0105 MHz FROM	RECEIVED FREQUENCY	CH12-C				208.8195
462.3099	-6(	94.7000)	1(	146.7600)	1(	883.7500)
NOTE: .0349 MHz FROM	RECEIVED FREQUENCY	RC059				462.2750
12210.0400	-6(	94.7000)	-1(	146.7600)	1(	12925.0001)
NOTE: .0400 MHz FROM	RECEIVED FREQUENCY	RC038				12209.9995
735.2600	8(	94.7000)	1(	146.7600)	-1(	169.1000)
NOTE: .0100 MHz FROM	RECEIVED FREQUENCY	CH58 V				735.2500
469.7350	-1(	94.7000)	1(	146.7600)	1(	417.6750)
NOTE: .0350 MHz FROM	RECEIVED FREQUENCY	RC021				469.7000
408.2551	3(	94.7000)	-2(	146.7600)	1(	417.6750)
NOTE: .0450 MHz FROM	RECEIVED FREQUENCY	RC017				408.3000
215.7700	8(	94.7000)	2(	146.7600)	-2(	417.6750)
NOTE: .0200 MHz FROM	RECEIVED FREQUENCY	CH13 A				215.7500
77.2600	1(	94.7000)	1(	146.7600)	-1(	164.2000)
NOTE: .0200 MHz FROM	RECEIVED FREQUENCY	CH05-V				77.2400

INTERMODULATION STUDY

FREQ (MHz)	COMPONENTS					
64.8099	8(	94.7000)	1(	146.7600)	-2(	419.7750)
NOTE:	.0296 MHz FROM	RECEIVED FREQUENCY	CH03+C			64.8395
211.2699	9(	94.7000)	2(	146.7600)	-2(	467.2750)
NOTE:	.0199 MHz FROM	RECEIVED FREQUENCY	CH13 V			211.2500
739.7850	8(	94.7000)	1(	146.7600)	-1(	164.5750)
NOTE:	.0350 MHz FROM	RECEIVED FREQUENCY	CH58 A			739.7500
35.1200	2(	94.7000)	1(	152.1200)	-2(	153.2000)
NOTE:	.0400 MHz FROM	RECEIVED FREQUENCY	RC002			35.1600
187.2400	2(	94.7000)	2(	152.1200)	-2(	153.2000)
NOTE:	.0100 MHz FROM	RECEIVED FREQUENCY	CH09 V			187.2500
39.5150	2(	94.7000)	-2(	152.1200)	1(	154.3550)
NOTE:	.0150 MHz FROM	RECEIVED FREQUENCY	RC005			39.5000
193.2500	2(	94.7000)	-1(	152.1200)	1(	155.9700)
NOTE:	.0100 MHz FROM	RECEIVED FREQUENCY	CH10-V			193.2400
469.6500	5(	94.7000)	1(	152.1200)	-1(	155.9700)
NOTE:	.0500 MHz FROM	RECEIVED FREQUENCY	RC020			469.6001
48.3400	-6(	94.7000)	2(	152.1200)	2(	156.1500)
NOTE:	.0400 MHz FROM	RECEIVED FREQUENCY	RC001			48.3800
215.7300	-1(	94.7000)	1(	152.1200)	1(	158.3100)
NOTE:	.0200 MHz FROM	RECEIVED FREQUENCY	CH13 A			215.7500
517.7950	7(	94.7000)	-2(	152.1200)	1(	159.1350)
NOTE:	.0450 MHz FROM	RECEIVED FREQUENCY	CH21 A			517.7500
158.2899	8(	94.7000)	2(	152.1200)	-2(	451.7750)
NOTE:	.0099 MHz FROM	RECEIVED FREQUENCY	RC008			158.2800
65.7600	-1(	94.7000)	-2(	152.1200)	1(	464.7001)
NOTE:	.0000 MHz FROM	RECEIVED FREQUENCY	CH03+A			65.7600
48.7700	-6(	94.7000)	1(	152.1200)	1(	464.8499)
NOTE:	.0300 MHz FROM	RECEIVED FREQUENCY	RC047			48.7400
81.7700	-8(	94.7000)	1(	152.1200)	1(	687.2500)
NOTE:	.0300 MHz FROM	RECEIVED FREQUENCY	CH05-A			81.7400
77.1901	6(	94.7000)	2(	152.1200)	-1(	795.2501)
NOTE:	.0499 MHz FROM	RECEIVED FREQUENCY	CH05-V			77.2400
408.3100	-1(	94.7000)	-2(	152.1200)	1(	807.2501)
NOTE:	.0100 MHz FROM	RECEIVED FREQUENCY	RC017			408.3000
77.1950	1(	94.7000)	1(	152.1200)	-1(	169.6250)
NOTE:	.0450 MHz FROM	RECEIVED FREQUENCY	CH05-V			77.2400
208.8100	9(	94.7000)	-2(	152.1200)	-2(	169.6250)
NOTE:	.0095 MHz FROM	RECEIVED FREQUENCY	CH12-C			208.8195
209.7300	-5(	94.7000)	-1(	152.1200)	2(	417.6750)
NOTE:	.0099 MHz FROM	RECEIVED FREQUENCY	CH12-A			209.7400
169.0699	9(	94.7000)	1(	152.1200)	-2(	417.6750)
NOTE:	.0301 MHz FROM	RECEIVED FREQUENCY	RC052			169.1000
738.8650	9(	94.7000)	2(	152.1200)	-1(	417.6750)
NOTE:	.0356 MHz FROM	RECEIVED FREQUENCY	CH58 C			738.8295

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INTERMODULATION STUDY

FREQ (MHz)	COMPONENTS			
477.1951	-1(94.7000)	1(152.1200)	1(419.7750)	
NOTE: .0450 MHz FROM RECEIVED FREQUENCY CH15-V				477.2400
215.7650	4(94.7000)	2(152.1200)	-1(467.2750)	
NOTE: .0150 MHz FROM RECEIVED FREQUENCY CH13 A				215.7500
80.7850	9(94.7000)	-2(152.1200)	-1(467.2750)	
NOTE: .0345 MHz FROM RECEIVED FREQUENCY CH05-C				80.8195
153.3150	-6(94.7000)	2(152.1200)	1(417.2750)	
NOTE: .0250 MHz FROM RECEIVED FREQUENCY RC012				153.2900
191.7100	2(94.7000)	-2(153.2000)	2(154.3550)	
NOTE: .0400 MHz FROM RECEIVED FREQUENCY CH09 A				191.7500
197.7600	7(94.7000)	-1(153.2000)	-2(155.9700)	
NOTE: .0200 MHz FROM RECEIVED FREQUENCY CH10-A				197.7400
164.1500	5(94.7000)	-1(153.2000)	-1(156.1500)	
NOTE: .0250 MHz FROM RECEIVED FREQUENCY RC054				164.1250
185.7200	-3(94.7000)	1(153.2000)	2(158.3100)	
NOTE: .0400 MHz FROM RECEIVED FREQUENCY CH08+A				185.7600
65.7499	7(94.7000)	2(153.2000)	-2(451.7750)	
NOTE: .0101 MHz FROM RECEIVED FREQUENCY CH03+A				65.7600
190.8500	-8(94.7000)	1(153.2000)	1(795.2501)	
NOTE: .0205 MHz FROM RECEIVED FREQUENCY CH09 C				190.8295
408.5500	-8(94.7000)	2(153.2000)	1(859.7500)	
NOTE: .0250 MHz FROM RECEIVED FREQUENCY RC055				408.5750
61.2800	-2(94.7000)	1(153.2000)	2(48.7400)	
NOTE: .0200 MHz FROM RECEIVED FREQUENCY CH03+V				61.2600
155.9800	-1(94.7000)	1(153.2000)	2(48.7400)	
NOTE: .0100 MHz FROM RECEIVED FREQUENCY RC010				155.9700
162.9600	-1(94.7000)	2(153.2000)	-1(48.7400)	
NOTE: .0350 MHz FROM RECEIVED FREQUENCY RC015				162.9250
172.1500	-5(94.7000)	2(153.2000)	2(169.6250)	
NOTE: .0000 MHz FROM RECEIVED FREQUENCY RC016				172.1500
172.8250	3(94.7000)	2(153.2000)	-1(417.6750)	
NOTE: .0500 MHz FROM RECEIVED FREQUENCY RC051				172.7750
181.3000	7(94.7000)	-1(153.2000)	-2(164.2000)	
NOTE: .0400 MHz FROM RECEIVED FREQUENCY CH08+V				181.2600
469.3500	3(94.7000)	-1(153.2000)	2(169.2250)	
NOTE: .0500 MHz FROM RECEIVED FREQUENCY RC019				469.4000
187.2750	7(94.7000)	-2(153.2000)	-1(169.2250)	
NOTE: .0250 MHz FROM RECEIVED FREQUENCY CH09 V				187.2500
187.2550	4(94.7000)	1(154.3550)	-2(172.9500)	
NOTE: .0050 MHz FROM RECEIVED FREQUENCY CH09 V				187.2500
146.1950	5(94.7000)	-1(154.3550)	-1(172.9500)	
NOTE: .0350 MHz FROM RECEIVED FREQUENCY RC006				146.1600
181.2399	7(94.7000)	-2(154.3550)	-1(172.9500)	
NOTE: .0201 MHz FROM RECEIVED FREQUENCY CH08+V				181.2600

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INTERMODULATION STUDY

FREQ (MHz)	COMPONENTS					
48.3650	-1(	94.7000)	-2(	154.3550)	1(	451.7750)
NOTE: .0150 MHz FROM RECEIVED FREQUENCY RC001						48.3800
205.2100	-6(	94.7000)	2(	154.3550)	1(	464.7001)
NOTE: .0300 MHz FROM RECEIVED FREQUENCY CH12-V						205.2400
61.2900	-1(	94.7000)	-2(	154.3550)	1(	464.7001)
NOTE: .0300 MHz FROM RECEIVED FREQUENCY CH03+V						61.2600
77.2550	9(	94.7000)	1(	154.3550)	-2(	464.7001)
NOTE: .0150 MHz FROM RECEIVED FREQUENCY CH05-V						77.2400
480.8100	-8(	94.7000)	2(	154.3550)	2(	464.8499)
NOTE: .0095 MHz FROM RECEIVED FREQUENCY CH15-C						480.8195
215.7950	-1(	94.7000)	-1(	154.3550)	1(	464.8499)
NOTE: .0450 MHz FROM RECEIVED FREQUENCY CH13 A						215.7500
158.5950	-4(	94.7000)	-1(	154.3550)	1(	691.7500)
NOTE: .0150 MHz FROM RECEIVED FREQUENCY RC007						158.5800
164.7050	8(	94.7000)	1(	154.3550)	-1(	747.2500)
NOTE: .0200 MHz FROM RECEIVED FREQUENCY RC056						164.7250
77.1949	-6(	94.7000)	-1(	154.3550)	1(	799.7500)
NOTE: .0451 MHz FROM RECEIVED FREQUENCY CH05-V						77.2400
408.3400	-1(	94.7000)	-2(	154.3550)	1(	811.7501)
NOTE: .0400 MHz FROM RECEIVED FREQUENCY RC017						408.3000
181.3050	-9(	94.7000)	1(	154.3550)	1(	879.2501)
NOTE: .0450 MHz FROM RECEIVED FREQUENCY CH08+V						181.2600
191.7400	-4(	94.7000)	-2(	154.3550)	1(	879.2501)
NOTE: .0100 MHz FROM RECEIVED FREQUENCY CH09 A						191.7500
185.8050	-9(	94.7000)	1(	154.3550)	1(	883.7500)
NOTE: .0450 MHz FROM RECEIVED FREQUENCY CH08+A						185.7600
1985.0450	2(	94.7000)	-1(	154.3550)	1(	1950.0000)
NOTE: .0450 MHz FROM RECEIVED FREQUENCY RC050						1985.0001
408.2900	4(	94.7000)	-2(	154.3550)	2(	169.1000)
NOTE: .0100 MHz FROM RECEIVED FREQUENCY RC017						408.3000
193.2300	-4(	94.7000)	1(	154.3550)	1(	417.6750)
NOTE: .0099 MHz FROM RECEIVED FREQUENCY CH10-V						193.2400
77.2450	6(	94.7000)	-1(	154.3550)	-2(	168.3000)
NOTE: .0050 MHz FROM RECEIVED FREQUENCY CH05-V						77.2400
39.4800	-3(	94.7000)	1(	154.3550)	1(	169.2250)
NOTE: .0200 MHz FROM RECEIVED FREQUENCY RC005						39.5000
408.5400	4(	94.7000)	-2(	154.3550)	2(	169.2250)
NOTE: .0350 MHz FROM RECEIVED FREQUENCY RC055						408.5750
80.8350	2(	94.7000)	2(	154.3550)	-1(	417.2750)
NOTE: .0155 MHz FROM RECEIVED FREQUENCY CH05-C						80.8195
172.1050	9(	94.7000)	1(	154.3550)	-2(	417.2750)
NOTE: .0450 MHz FROM RECEIVED FREQUENCY RC016						172.1500
191.7400	2(	94.7000)	-1(	155.9700)	1(	158.3100)
NOTE: .0100 MHz FROM RECEIVED FREQUENCY CH09 A						191.7500

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FREQ (MHz)	COMPONENTS
414.8200	1(94.7000) 1(155.9700) 1(164.1500)
NOTE:	.0050 MHz FROM RECEIVED FREQUENCY RC053
181.2200	2(94.7000) 1(155.9700) -1(164.1500)
NOTE:	.0400 MHz FROM RECEIVED FREQUENCY CH08+V
153.8550	5(94.7000) -1(155.9700) -1(163.6750)
NOTE:	.0350 MHz FROM RECEIVED FREQUENCY RC009
187.2849	7(94.7000) -2(155.9700) -1(163.6750)
NOTE:	.0349 MHz FROM RECEIVED FREQUENCY CH09 V
517.7900	4(94.7000) 2(155.9700) -1(172.9500)
NOTE:	.0400 MHz FROM RECEIVED FREQUENCY CH21 A
190.8450	-4(94.7000) 1(155.9700) 1(413.6750)
NOTE:	.0155 MHz FROM RECEIVED FREQUENCY CH09 C
215.7950	5(94.7000) 1(155.9700) -1(413.6750)
NOTE:	.0450 MHz FROM RECEIVED FREQUENCY CH13 A
39.5450	-6(94.7000) 1(155.9700) 1(451.7750)
NOTE:	.0450 MHz FROM RECEIVED FREQUENCY RC005
205.2300	-6(94.7000) -1(155.9700) 2(464.7001)
NOTE:	.0100 MHz FROM RECEIVED FREQUENCY CH12-V
164.7700	5(94.7000) 1(155.9700) -1(464.7001)
NOTE:	.0450 MHz FROM RECEIVED FREQUENCY RC056
184.8200	-7(94.7000) 1(155.9700) 1(691.7500)
NOTE:	.0195 MHz FROM RECEIVED FREQUENCY CH08+C
187.2100	-3(94.7000) -2(155.9700) 1(783.2500)
NOTE:	.0400 MHz FROM RECEIVED FREQUENCY CH09 V
158.2800	-5(94.7000) -1(155.9700) 1(787.7500)
NOTE:	.0000 MHz FROM RECEIVED FREQUENCY RC008
191.7100	-3(94.7000) -2(155.9700) 1(787.7500)
NOTE:	.0400 MHz FROM RECEIVED FREQUENCY CH09 A
211.2100	-3(94.7000) -2(155.9700) 1(807.2501)
NOTE:	.0400 MHz FROM RECEIVED FREQUENCY CH13 V
215.7099	-3(94.7000) -2(155.9700) 1(811.7501)
NOTE:	.0400 MHz FROM RECEIVED FREQUENCY CH13 A
64.8800	-7(94.7000) -1(155.9700) 1(883.7500)
NOTE:	.0405 MHz FROM RECEIVED FREQUENCY CH03+C
185.7900	8(94.7000) 2(155.9700) -1(883.7500)
NOTE:	.0300 MHz FROM RECEIVED FREQUENCY CH08+A
415.0100	5(94.7000) -1(155.9700) 2(48.7400)
NOTE:	.0350 MHz FROM RECEIVED FREQUENCY RC058
735.2050	5(94.7000) -1(155.9700) 1(417.6750)
NOTE:	.0450 MHz FROM RECEIVED FREQUENCY CH58 V
414.8700	1(94.7000) 1(155.9700) 1(164.2000)
NOTE:	.0450 MHz FROM RECEIVED FREQUENCY RC053
153.3300	5(94.7000) -1(155.9700) -1(164.2000)
NOTE:	.0400 MHz FROM RECEIVED FREQUENCY RC012

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FREQ (MHz)	COMPONENTS			
481.7300	5(94.7000)	-1(155.9700)	1(164.2000)	
NOTE: .0100 MHz FROM RECEIVED FREQUENCY CH15-A				481.7401
164.7400	2(94.7000)	2(155.9700)	-2(168.3000)	
NOTE: .0150 MHz FROM RECEIVED FREQUENCY RC056				164.7250
162.8900	2(94.7000)	2(155.9700)	-2(169.2250)	
NOTE: .0350 MHz FROM RECEIVED FREQUENCY RC015				162.9250
169.1050	-1(94.7000)	-1(155.9700)	1(419.7750)	
NOTE: .0050 MHz FROM RECEIVED FREQUENCY RC052				169.1000
209.6950	5(94.7000)	1(155.9700)	-1(419.7750)	
NOTE: .0450 MHz FROM RECEIVED FREQUENCY CH12-A				209.7400
172.1900	2(94.7000)	2(155.9700)	-2(164.5750)	
NOTE: .0400 MHz FROM RECEIVED FREQUENCY RC016				172.1500
211.2100	9(94.7000)	-2(155.9700)	-2(164.5750)	
NOTE: .0400 MHz FROM RECEIVED FREQUENCY CH13 V				211.2500
65.7700	-1(94.7000)	-1(156.1500)	2(158.3100)	
NOTE: .0100 MHz FROM RECEIVED FREQUENCY CH03+A				65.7600
187.2400	2(94.7000)	1(156.1500)	-1(158.3100)	
NOTE: .0100 MHz FROM RECEIVED FREQUENCY CH09 V				187.2500
415.0001	1(94.7000)	1(156.1500)	1(164.1500)	
NOTE: .0250 MHz FROM RECEIVED FREQUENCY RC058				414.9750
197.7000	-5(94.7000)	-1(156.1500)	2(413.6750)	
NOTE: .0400 MHz FROM RECEIVED FREQUENCY CH10-A				197.7400
513.2250	-1(94.7000)	1(156.1500)	1(451.7750)	
NOTE: .0250 MHz FROM RECEIVED FREQUENCY CH21 V				513.2500
48.7000	-6(94.7000)	-2(156.1500)	2(464.6000)	
NOTE: .0401 MHz FROM RECEIVED FREQUENCY RC047				48.7400
208.8000	-6(94.7000)	2(156.1500)	1(464.7001)	
NOTE: .0195 MHz FROM RECEIVED FREQUENCY CH12-C				208.8195
164.9500	5(94.7000)	1(156.1500)	-1(464.7001)	
NOTE: .0125 MHz FROM RECEIVED FREQUENCY RC014				164.9375
469.6500	1(94.7000)	-2(156.1500)	1(687.2500)	
NOTE: .0500 MHz FROM RECEIVED FREQUENCY RC020				469.6001
193.2501	6(94.7000)	2(156.1500)	-1(687.2500)	
NOTE: .0101 MHz FROM RECEIVED FREQUENCY CH10-V				193.2400
469.7500	-8(94.7000)	-1(156.1500)	2(691.7500)	
NOTE: .0500 MHz FROM RECEIVED FREQUENCY RC021				469.7000
408.3000	-7(94.7000)	-2(156.1500)	2(691.7500)	
NOTE: .0000 MHz FROM RECEIVED FREQUENCY RC017				408.3000
735.3000	-7(94.7000)	-2(156.1500)	2(855.2500)	
NOTE: .0500 MHz FROM RECEIVED FREQUENCY CH58 V				735.2500
164.1500	-4(94.7000)	-2(156.1500)	1(855.2500)	
NOTE: .0249 MHz FROM RECEIVED FREQUENCY RC054				164.1250
415.0000	-3(94.7000)	-1(156.1500)	1(855.2500)	
NOTE: .0250 MHz FROM RECEIVED FREQUENCY RC058				414.9750

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FREQ (MHz)	COMPONENTS						
414.8301	5(	94.7000)	-1(	156.1500)	2(	48.7400)	
NOTE:	.0050 MHz FROM	RECEIVED FREQUENCY	RC053			414.8250	
81.7500	1(	94.7000)	1(	156.1500)	-1(	169.1000)	
NOTE:	.0100 MHz FROM	RECEIVED FREQUENCY	CH05-A			81.7400	
480.8500	7(	94.7000)	1(	156.1500)	-2(	169.1000)	
NOTE:	.0305 MHz FROM	RECEIVED FREQUENCY	CH15-C			480.8195	
45.1500	6(	94.7000)	2(	156.1500)	-2(	417.6750)	
NOTE:	.0500 MHz FROM	RECEIVED FREQUENCY	RC004			45.2000	
48.3750	-1(	94.7000)	2(	156.1500)	-1(	169.2250)	
NOTE:	.0050 MHz FROM	RECEIVED FREQUENCY	RC001			48.3800	
168.3000	7(	94.7000)	-1(	156.1500)	-2(	169.2250)	
NOTE:	.0000 MHz FROM	RECEIVED FREQUENCY	RC057			168.3000	
39.4749	7(	94.7000)	-1(	156.1500)	-1(	467.2750)	
NOTE:	.0251 MHz FROM	RECEIVED FREQUENCY	RC005			39.5000	
48.7500	-5(	94.7000)	-2(	156.1500)	2(	417.2750)	
NOTE:	.0100 MHz FROM	RECEIVED FREQUENCY	RC047			48.7400	
156.0550	5(	94.7000)	-1(	158.3100)	-1(	159.1350)	
NOTE:	.0100 MHz FROM	RECEIVED FREQUENCY	RC013			156.0450	
208.8100	4(	94.7000)	1(	158.3100)	-2(	164.1500)	
NOTE:	.0095 MHz FROM	RECEIVED FREQUENCY	CH12-C			208.8195	
209.7599	4(	94.7000)	1(	158.3100)	-2(	163.6750)	
NOTE:	.0200 MHz FROM	RECEIVED FREQUENCY	CH12-A			209.7400	
477.2850	-1(	94.7000)	1(	158.3100)	1(	413.6750)	
NOTE:	.0450 MHz FROM	RECEIVED FREQUENCY	CH15-V			477.2400	
191.7550	1(	94.7000)	-2(	158.3100)	1(	413.6750)	
NOTE:	.0050 MHz FROM	RECEIVED FREQUENCY	CH09 A			191.7500	
181.2300	-2(	94.7000)	-2(	158.3100)	1(	687.2500)	
NOTE:	.0300 MHz FROM	RECEIVED FREQUENCY	CH08+V			181.2600	
156.0700	-9(	94.7000)	2(	158.3100)	1(	691.7500)	
NOTE:	.0250 MHz FROM	RECEIVED FREQUENCY	RC013			156.0450	
185.7300	-2(	94.7000)	-2(	158.3100)	1(	691.7500)	
NOTE:	.0300 MHz FROM	RECEIVED FREQUENCY	CH08+A			185.7600	
469.8300	1(	94.7000)	-2(	158.3100)	1(	691.7500)	
NOTE:	.0200 MHz FROM	RECEIVED FREQUENCY	RC022			469.8500	
164.1600	8(	94.7000)	1(	158.3100)	-1(	751.7501)	
NOTE:	.0350 MHz FROM	RECEIVED FREQUENCY	RC054			164.1250	
61.2400	-6(	94.7000)	-1(	158.3100)	1(	787.7500)	
NOTE:	.0200 MHz FROM	RECEIVED FREQUENCY	CH03+V			61.2600	
155.9400	-5(	94.7000)	-1(	158.3100)	1(	787.7500)	
NOTE:	.0300 MHz FROM	RECEIVED FREQUENCY	RC010			155.9700	
191.7700	7(	94.7000)	2(	158.3100)	-1(	787.7500)	
NOTE:	.0200 MHz FROM	RECEIVED FREQUENCY	CH09 A			191.7500	
469.3600	-6(	94.7000)	1(	158.3100)	1(	879.2501)	
NOTE:	.0400 MHz FROM	RECEIVED FREQUENCY	RC019			469.4000	

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FREQ (MHz)	COMPONENTS				
155.5300	1(	94.7000)	1(	158.3100)	-2(48.7400)
NOTE: .0050 MHz FROM RECEIVED FREQUENCY RC011					155.5350
408.5400	2(	94.7000)	2(	158.3100)	-2(48.7400)
NOTE: .0350 MHz FROM RECEIVED FREQUENCY RC055					408.5750
516.8100	2(	94.7000)	1(	158.3100)	1(169.1000)
NOTE: .0195 MHz FROM RECEIVED FREQUENCY CH21 C					516.8294
45.2300	-5(	94.7000)	-2(	158.3100)	2(417.6750)
NOTE: .0300 MHz FROM RECEIVED FREQUENCY RC004					45.2000
739.7200	1(	94.7000)	2(	158.3100)	2(164.2000)
NOTE: .0300 MHz FROM RECEIVED FREQUENCY CH58 A					739.7500
211.2300	2(	94.7000)	-2(	158.3100)	2(169.2250)
NOTE: .0200 MHz FROM RECEIVED FREQUENCY CH13 V					211.2500
196.7850	-4(	94.7000)	1(	158.3100)	1(417.2750)
NOTE: .0345 MHz FROM RECEIVED FREQUENCY CH10-C					196.8195
172.1201	-5(	94.7000)	2(	159.1350)	2(163.6750)
NOTE: .0300 MHz FROM RECEIVED FREQUENCY RC016					172.1500
184.8600	2(	94.7000)	1(	159.1350)	-1(163.6750)
NOTE: .0205 MHz FROM RECEIVED FREQUENCY CH08+C					184.8395
81.7150	6(	94.7000)	-1(	159.1350)	-2(163.6750)
NOTE: .0250 MHz FROM RECEIVED FREQUENCY CH05-A					81.7400
184.7899	8(	94.7000)	-1(	159.1350)	-1(413.6750)
NOTE: .0496 MHz FROM RECEIVED FREQUENCY CH08+C					184.8395
146.1700	8(	94.7000)	2(	159.1350)	-2(464.8499)
NOTE: .0100 MHz FROM RECEIVED FREQUENCY RC006					146.1600
81.7350	9(	94.7000)	1(	159.1350)	-2(464.8499)
NOTE: .0050 MHz FROM RECEIVED FREQUENCY CH05-A					81.7400
153.2850	-8(	94.7000)	1(	159.1350)	1(751.7501)
NOTE: .0050 MHz FROM RECEIVED FREQUENCY RC012					153.2900
164.9850	8(	94.7000)	1(	159.1350)	-1(751.7501)
NOTE: .0475 MHz FROM RECEIVED FREQUENCY RC014					164.9375
196.7850	-8(	94.7000)	1(	159.1350)	1(795.2501)
NOTE: .0345 MHz FROM RECEIVED FREQUENCY CH10-C					196.8195
208.7850	-8(	94.7000)	1(	159.1350)	1(807.2501)
NOTE: .0345 MHz FROM RECEIVED FREQUENCY CH12-C					208.8195
80.8300	6(	94.7000)	-2(	159.1350)	-1(169.1000)
NOTE: .0105 MHz FROM RECEIVED FREQUENCY CH05-C					80.8195
516.8351	2(	94.7000)	1(	159.1350)	1(168.3000)
NOTE: .0056 MHz FROM RECEIVED FREQUENCY CH21 C					516.8294
517.7600	2(	94.7000)	1(	159.1350)	1(169.2250)
NOTE: .0100 MHz FROM RECEIVED FREQUENCY CH21 A					517.7500
208.7850	4(	94.7000)	1(	159.1350)	-2(164.5750)
NOTE: .0345 MHz FROM RECEIVED FREQUENCY CH12-C					208.8195
481.7101	-1(	94.7000)	1(	159.1350)	1(417.2750)
NOTE: .0300 MHz FROM RECEIVED FREQUENCY CH15-A					481.7401

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FREQ (MHz)	COMPONENTS					
196.8500	-6(	94.7000)	-1(	164.1500)	2(	464.6000)
NOTE: .0305 MHz FROM RECEIVED FREQUENCY CH10-C						196.8195
155.5000	-5(	94.7000)	1(	164.1500)	1(	464.8499)
NOTE: .0350 MHz FROM RECEIVED FREQUENCY RC011						155.5350
172.8000	5(	94.7000)	1(	164.1500)	-1(	464.8499)
NOTE: .0250 MHz FROM RECEIVED FREQUENCY RC051						172.7750
408.5999	-8(	94.7000)	-2(	164.1500)	2(	747.2500)
NOTE: .0250 MHz FROM RECEIVED FREQUENCY RC055						408.5750
158.3000	-8(	94.7000)	1(	164.1500)	1(	751.7501)
NOTE: .0201 MHz FROM RECEIVED FREQUENCY RC008						158.2800
208.8000	-4(	94.7000)	-1(	164.1500)	1(	751.7501)
NOTE: .0195 MHz FROM RECEIVED FREQUENCY CH12-C						208.8195
735.3000	-3(	94.7000)	1(	164.1500)	1(	855.2500)
NOTE: .0500 MHz FROM RECEIVED FREQUENCY CH58 V						735.2500
739.8000	-3(	94.7000)	1(	164.1500)	1(	859.7500)
NOTE: .0500 MHz FROM RECEIVED FREQUENCY CH58 A						739.7500
172.1500	-4(	94.7000)	-2(	164.1500)	1(	879.2501)
NOTE: .0000 MHz FROM RECEIVED FREQUENCY RC016						172.1500
184.8600	-1(	94.7000)	2(	164.1500)	-1(	48.7400)
NOTE: .0205 MHz FROM RECEIVED FREQUENCY CH08+C						184.8395
64.8000	6(	94.7000)	-1(	164.1500)	-2(	169.6250)
NOTE: .0395 MHz FROM RECEIVED FREQUENCY CH03+C						64.8395
164.9749	7(	94.7000)	-2(	164.1500)	-1(	169.6250)
NOTE: .0374 MHz FROM RECEIVED FREQUENCY RC014						164.9375
185.8000	9(	94.7000)	-2(	164.1500)	-2(	169.1000)
NOTE: .0400 MHz FROM RECEIVED FREQUENCY CH08+A						185.7600
197.7000	-5(	94.7000)	-1(	164.1500)	2(	417.6750)
NOTE: .0400 MHz FROM RECEIVED FREQUENCY CH10-A						197.7400
517.7500	2(	94.7000)	1(	164.1500)	1(	164.2000)
NOTE: .0000 MHz FROM RECEIVED FREQUENCY CH21 A						517.7500
48.3500	-3(	94.7000)	1(	164.1500)	1(	168.3000)
NOTE: .0300 MHz FROM RECEIVED FREQUENCY RC001						48.3800
197.7000	2(	94.7000)	-2(	164.1500)	2(	168.3000)
NOTE: .0400 MHz FROM RECEIVED FREQUENCY CH10-A						197.7400
469.3500	5(	94.7000)	1(	164.1500)	-1(	168.3000)
NOTE: .0500 MHz FROM RECEIVED FREQUENCY RC019						469.4000
193.2500	-5(	94.7000)	2(	164.1500)	2(	169.2250)
NOTE: .0100 MHz FROM RECEIVED FREQUENCY CH10-V						193.2400
517.7751	4(	94.7000)	-2(	164.1500)	1(	467.2750)
NOTE: .0250 MHz FROM RECEIVED FREQUENCY CH21 A						517.7500
208.7750	-3(	94.7000)	2(	164.1500)	1(	164.5750)
NOTE: .0445 MHz FROM RECEIVED FREQUENCY CH12-C						208.8195
153.3249	7(	94.7000)	-1(	163.6750)	-2(	172.9500)
NOTE: .0350 MHz FROM RECEIVED FREQUENCY RC012						153.2900

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FREQ (MHz)	COMPONENTS
197.7751	3(94.7000) 2(163.6750) -1(413.6750)
NOTE:	.0351 MHz FROM RECEIVED FREQUENCY CH10-A 197.7400
162.9000	7(94.7000) 2(163.6750) -2(413.6750)
NOTE:	.0250 MHz FROM RECEIVED FREQUENCY RC015 162.9250
172.7751	5(94.7000) 1(163.6750) -1(464.4000)
NOTE:	.0000 MHz FROM RECEIVED FREQUENCY RC051 172.7750
155.5500	8(94.7000) 2(163.6750) -2(464.7001)
NOTE:	.0150 MHz FROM RECEIVED FREQUENCY RC011 155.5350
153.3250	-8(94.7000) 1(163.6750) 1(747.2500)
NOTE:	.0350 MHz FROM RECEIVED FREQUENCY RC012 153.2900
513.2500	-7(94.7000) -2(163.6750) 2(751.7501)
NOTE:	.0000 MHz FROM RECEIVED FREQUENCY CH21 V 513.2500
12250.0503	-9(94.7000) 2(163.6750) 1(12774.9991)
NOTE:	.0498 MHz FROM RECEIVED FREQUENCY RC035 12250.0002
477.2001	-2(94.7000) 2(163.6750) 2(169.6250)
NOTE:	.0399 MHz FROM RECEIVED FREQUENCY CH15-V 477.2400
81.7250	8(94.7000) 1(163.6750) -2(419.7750)
NOTE:	.0150 MHz FROM RECEIVED FREQUENCY CH05-A 81.7400
45.2250	-1(94.7000) -2(163.6750) 1(467.2750)
NOTE:	.0250 MHz FROM RECEIVED FREQUENCY RC004 45.2000
81.7251	-7(94.7000) 2(163.6750) 1(417.2750)
NOTE:	.0149 MHz FROM RECEIVED FREQUENCY CH05-A 81.7400
516.8750	8(94.7000) 1(172.9500) -1(413.6750)
NOTE:	.0455 MHz FROM RECEIVED FREQUENCY CH21 C 516.8294
462.3250	6(94.7000) 2(172.9500) -1(451.7750)
NOTE:	.0500 MHz FROM RECEIVED FREQUENCY RC059 462.2750
480.8500	2(94.7000) -1(172.9500) 1(464.4000)
NOTE:	.0305 MHz FROM RECEIVED FREQUENCY CH15-C 480.8195
517.7001	-8(94.7000) 2(172.9500) 2(464.7001)
NOTE:	.0499 MHz FROM RECEIVED FREQUENCY CH21 A 517.7500
164.1500	-5(94.7000) 1(172.9500) 1(464.7001)
NOTE:	.0250 MHz FROM RECEIVED FREQUENCY RC054 164.1250
469.3999	-6(94.7000) -2(172.9500) 2(691.7500)
NOTE:	.0000 MHz FROM RECEIVED FREQUENCY RC019 469.4000
469.4500	-6(94.7000) 2(172.9500) 1(691.7500)
NOTE:	.0500 MHz FROM RECEIVED FREQUENCY RC019 469.4000
735.3000	-2(94.7000) 1(172.9500) 1(751.7501)
NOTE:	.0500 MHz FROM RECEIVED FREQUENCY CH58 V 735.2500
153.2500	-3(94.7000) -2(172.9500) 1(783.2500)
NOTE:	.0400 MHz FROM RECEIVED FREQUENCY RC012 153.2900
414.9500	9(94.7000) 2(172.9500) -1(783.2500)
NOTE:	.0251 MHz FROM RECEIVED FREQUENCY RC058 414.9750
153.3000	-5(94.7000) -1(172.9500) 1(799.7500)
NOTE:	.0100 MHz FROM RECEIVED FREQUENCY RC012 153.2900

INTERMODULATION STUDY

FREQ (MHz)	COMPONENTS			
208.8000	-5(94.7000)	-1(172.9500)	1(855.2500)	
NOTE: .0195 MHz FROM RECEIVED FREQUENCY CH12-C 208.8195				
12269.9999	-3(94.7000)	-2(172.9500)	1(12899.9996)	
NOTE: .0000 MHz FROM RECEIVED FREQUENCY RC037 12269.9999				
205.2400	-2(94.7000)	2(172.9500)	1(48.7400)	
NOTE: .0000 MHz FROM RECEIVED FREQUENCY CH12-V 205.2400				
408.3100	3(94.7000)	1(172.9500)	-1(48.7400)	
NOTE: .0100 MHz FROM RECEIVED FREQUENCY RC017 408.3000				
415.0249	8(94.7000)	-1(172.9500)	-1(169.6250)	
NOTE: .0500 MHz FROM RECEIVED FREQUENCY RC058 414.9750				
193.2500	2(94.7000)	1(172.9500)	-1(169.1000)	
NOTE: .0100 MHz FROM RECEIVED FREQUENCY CH10-V 193.2400				
469.6500	5(94.7000)	-1(172.9500)	1(169.1000)	
NOTE: .0500 MHz FROM RECEIVED FREQUENCY RC021 469.7000				
156.0001	-9(94.7000)	1(172.9500)	2(417.6750)	
NOTE: .0301 MHz FROM RECEIVED FREQUENCY RC010 155.9700				
156.0001	-9(94.7000)	1(172.9500)	2(417.6750)	
NOTE: .0449 MHz FROM RECEIVED FREQUENCY RC013 156.0450				
77.2000	1(94.7000)	-2(172.9500)	2(164.2000)	
NOTE: .0400 MHz FROM RECEIVED FREQUENCY CH05-V 77.2400				
414.8500	-1(94.7000)	1(172.9500)	2(168.3000)	
NOTE: .0250 MHz FROM RECEIVED FREQUENCY RC053 414.8250				
196.8500	2(94.7000)	2(172.9500)	-2(169.2250)	
NOTE: .0305 MHz FROM RECEIVED FREQUENCY CH10-C 196.8195				
477.2250	5(94.7000)	1(172.9500)	-1(169.2250)	
NOTE: .0150 MHz FROM RECEIVED FREQUENCY CH15-V 477.2400				
477.2000	-2(94.7000)	-1(172.9500)	2(419.7750)	
NOTE: .0400 MHz FROM RECEIVED FREQUENCY CH15-V 477.2400				
197.7750	2(94.7000)	1(172.9500)	-1(164.5750)	
NOTE: .0350 MHz FROM RECEIVED FREQUENCY CH10-A 197.7400				
456.7500	5(94.7000)	-2(172.9500)	2(164.5750)	
NOTE: .0250 MHz FROM RECEIVED FREQUENCY RC018 456.7750				
513.2750	8(94.7000)	1(172.9500)	-1(417.2750)	
NOTE: .0250 MHz FROM RECEIVED FREQUENCY CH21 V 513.2500				
205.2500	6(94.7000)	-2(413.6750)	1(464.4000)	
NOTE: .0100 MHz FROM RECEIVED FREQUENCY CH12-V 205.2400				
480.8500	4(94.7000)	-2(413.6750)	2(464.7001)	
NOTE: .0305 MHz FROM RECEIVED FREQUENCY CH15-C 480.8195				
168.3500	-4(94.7000)	-2(413.6750)	2(687.2500)	
NOTE: .0500 MHz FROM RECEIVED FREQUENCY RC057 168.3000				
45.2250	4(94.7000)	1(413.6750)	-1(747.2500)	
NOTE: .0250 MHz FROM RECEIVED FREQUENCY RC004 45.2000				
480.7750	1(94.7000)	-1(413.6750)	1(799.7500)	
NOTE: .0445 MHz FROM RECEIVED FREQUENCY CH15-C 480.8195				

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INTERMODULATION STUDY

FREQ (MHz)	COMPONENTS			
408.3500	-4(	94.7000)	-2(413.6750)	2(807.2501)
NOTE: .0500 MHz FROM RECEIVED FREQUENCY RC017				408.3000
80.8350	-3(	94.7000)	1(413.6750)	-1(48.7400)
NOTE: .0155 MHz FROM RECEIVED FREQUENCY CH05-C				80.8195
169.1250	1(	94.7000)	1(413.6750)	-2(169.6250)
NOTE: .0250 MHz FROM RECEIVED FREQUENCY RC052				169.1000
39.5250	3(	94.7000)	-1(413.6750)	1(169.1000)
NOTE: .0250 MHz FROM RECEIVED FREQUENCY RC005				39.5000
214.8501	-3(	94.7000)	2(413.6750)	-2(164.2000)
NOTE: .0206 MHz FROM RECEIVED FREQUENCY CH13 C				214.8295
469.6501	-2(	94.7000)	2(413.6750)	-1(168.3000)
NOTE: .0499 MHz FROM RECEIVED FREQUENCY RC021				469.7000
172.1499	7(	94.7000)	-2(413.6750)	2(168.3000)
NOTE: .0001 MHz FROM RECEIVED FREQUENCY RC016				172.1500
193.2499	9(	94.7000)	-2(413.6750)	1(168.3000)
NOTE: .0100 MHz FROM RECEIVED FREQUENCY CH10-V				193.2400
738.8750	4(	94.7000)	2(413.6750)	-1(467.2750)
NOTE: .0455 MHz FROM RECEIVED FREQUENCY CH58 C				738.8295
164.7000	7(	94.7000)	-2(413.6750)	2(164.5750)
NOTE: .0251 MHz FROM RECEIVED FREQUENCY RC056				164.7250
185.8000	2(	94.7000)	1(413.6750)	-1(417.2750)
NOTE: .0400 MHz FROM RECEIVED FREQUENCY CH08+A				185.7600
158.5750	-8(	94.7000)	1(451.7750)	1(464.4000)
NOTE: .0050 MHz FROM RECEIVED FREQUENCY RC007				158.5800
164.1501	2(	94.7000)	2(451.7750)	-2(464.4000)
NOTE: .0251 MHz FROM RECEIVED FREQUENCY RC054				164.1250
81.7750	1(	94.7000)	1(451.7750)	-1(464.7001)
NOTE: .0350 MHz FROM RECEIVED FREQUENCY CH05-A				81.7400
1895.0251	9(	94.7000)	-1(451.7750)	2(747.2500)
NOTE: .0250 MHz FROM RECEIVED FREQUENCY RC048				1895.0000
205.2750	-1(	94.7000)	-1(451.7750)	1(751.7501)
NOTE: .0350 MHz FROM RECEIVED FREQUENCY CH12-V				205.2400
168.2999	3(	94.7000)	-2(451.7750)	1(787.7500)
NOTE: .0001 MHz FROM RECEIVED FREQUENCY RC057				168.3000
158.5750	-2(	94.7000)	-1(451.7750)	1(799.7500)
NOTE: .0051 MHz FROM RECEIVED FREQUENCY RC007				158.5800
738.8250	-6(	94.7000)	1(451.7750)	1(855.2500)
NOTE: .0045 MHz FROM RECEIVED FREQUENCY CH58 C				738.8295
164.7250	6(	94.7000)	1(451.7750)	-1(855.2500)
NOTE: .0000 MHz FROM RECEIVED FREQUENCY RC056				164.7250
164.8950	-2(	94.7000)	1(451.7750)	-2(48.7400)
NOTE: .0425 MHz FROM RECEIVED FREQUENCY RC014				164.9375
469.6001	-1(	94.7000)	2(451.7750)	-2(169.6250)
NOTE: .0000 MHz FROM RECEIVED FREQUENCY RC020				469.6001

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FREQ (MHz)	COMPONENTS			
61.2749	9(94.7000)	-1(451.7750)	-2(169.6250)	
NOTE: .0149 MHz FROM RECEIVED FREQUENCY CH03+V				61.2600
739.7750	9(94.7000)	-1(451.7750)	2(169.6250)	
NOTE: .0250 MHz FROM RECEIVED FREQUENCY CH58 A				739.7500
190.8250	5(94.7000)	-1(451.7750)	1(169.1000)	
NOTE: .0045 MHz FROM RECEIVED FREQUENCY CH09 C				190.8295
162.9000	1(94.7000)	2(451.7750)	-2(417.6750)	
NOTE: .0250 MHz FROM RECEIVED FREQUENCY RC015				162.9250
739.7000	-2(94.7000)	1(464.4000)	1(464.7001)	
NOTE: .0500 MHz FROM RECEIVED FREQUENCY CH58 A				739.7500
61.2500	3(94.7000)	1(464.4000)	-1(687.2500)	
NOTE: .0100 MHz FROM RECEIVED FREQUENCY CH03+V				61.2600
155.9500	4(94.7000)	1(464.4000)	-1(687.2500)	
NOTE: .0200 MHz FROM RECEIVED FREQUENCY RC010				155.9700
738.8000	3(94.7000)	-2(464.4000)	2(691.7500)	
NOTE: .0295 MHz FROM RECEIVED FREQUENCY CH58 C				738.8295
48.3500	2(94.7000)	-2(464.4000)	1(787.7500)	
NOTE: .0300 MHz FROM RECEIVED FREQUENCY RC001				48.3800
735.2500	9(94.7000)	-2(464.4000)	1(811.7501)	
NOTE: .0000 MHz FROM RECEIVED FREQUENCY CH58 V				735.2500
45.1500	1(94.7000)	-2(464.4000)	1(879.2501)	
NOTE: .0500 MHz FROM RECEIVED FREQUENCY RC004				45.2000
462.3000	8(94.7000)	-1(464.4000)	1(169.1000)	
NOTE: .0250 MHz FROM RECEIVED FREQUENCY RC059				462.2750
408.5750	-5(94.7000)	1(464.4000)	1(417.6750)	
NOTE: .0000 MHz FROM RECEIVED FREQUENCY RC055				408.5750
35.2000	-8(94.7000)	1(464.4000)	2(164.2000)	
NOTE: .0400 MHz FROM RECEIVED FREQUENCY RC002				35.1600
414.9500	-9(94.7000)	2(464.4000)	2(169.2250)	
NOTE: .0250 MHz FROM RECEIVED FREQUENCY RC058				414.9750
185.7501	-2(94.7000)	-1(464.4000)	2(419.7750)	
NOTE: .0099 MHz FROM RECEIVED FREQUENCY CH08+A				185.7600
469.8501	1(94.7000)	-1(464.4000)	2(419.7750)	
NOTE: .0001 MHz FROM RECEIVED FREQUENCY RC022				469.8500
153.8750	7(94.7000)	-2(464.4000)	1(419.7750)	
NOTE: .0150 MHz FROM RECEIVED FREQUENCY RC009				153.8900
196.8500	4(94.7000)	-2(464.6000)	1(747.2500)	
NOTE: .0305 MHz FROM RECEIVED FREQUENCY CH10-C				196.8195
190.8500	5(94.7000)	1(464.6000)	-1(747.2500)	
NOTE: .0205 MHz FROM RECEIVED FREQUENCY CH09 C				190.8295
172.7999	-5(94.7000)	-2(464.6000)	2(787.7500)	
NOTE: .0249 MHz FROM RECEIVED FREQUENCY RC051				172.7750
196.7999	-5(94.7000)	-2(464.6000)	2(799.7500)	
NOTE: .0196 MHz FROM RECEIVED FREQUENCY CH10-C				196.8195

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FREQ (MHz)	COMPONENTS			
153.2500	-2(94.7000)	-1(464.6000)	1(807.2501)	
NOTE: .0400 MHz FROM RECEIVED FREQUENCY RC012				153.2900
414.9500	8(94.7000)	1(464.6000)	-1(807.2501)	
NOTE: .0251 MHz FROM RECEIVED FREQUENCY RC058				414.9750
164.1500	1(94.7000)	2(464.6000)	-1(859.7500)	
NOTE: .0250 MHz FROM RECEIVED FREQUENCY RC054				164.1250
45.2000	-8(94.7000)	1(464.6000)	2(169.1000)	
NOTE: .0000 MHz FROM RECEIVED FREQUENCY RC004				45.2000
196.8000	-6(94.7000)	2(464.6000)	-1(164.2000)	
NOTE: .0195 MHz FROM RECEIVED FREQUENCY CH10-C				196.8195
191.7750	-6(94.7000)	2(464.6000)	-1(169.2250)	
NOTE: .0250 MHz FROM RECEIVED FREQUENCY CH09 A				191.7500
469.6500	1(94.7000)	-1(464.6000)	2(419.7750)	
NOTE: .0500 MHz FROM RECEIVED FREQUENCY RC021				469.7000
193.2500	6(94.7000)	1(464.6000)	-2(419.7750)	
NOTE: .0100 MHz FROM RECEIVED FREQUENCY CH10-V				193.2400
414.9500	-4(94.7000)	1(464.6000)	2(164.5750)	
NOTE: .0250 MHz FROM RECEIVED FREQUENCY RC058				414.9750
77.2500	-9(94.7000)	1(464.7001)	1(464.8499)	
NOTE: .0100 MHz FROM RECEIVED FREQUENCY CH05-V				77.2400
48.2501	-2(94.7000)	2(464.7001)	-1(691.7500)	
NOTE: .0101 MHz FROM RECEIVED FREQUENCY RC003				48.2400
208.8001	7(94.7000)	2(464.7001)	-2(691.7500)	
NOTE: .0195 MHz FROM RECEIVED FREQUENCY CH12-C				208.8195
39.4500	-1(94.7000)	2(464.7001)	-1(795.2501)	
NOTE: .0500 MHz FROM RECEIVED FREQUENCY RC005				39.5000
48.2500	4(94.7000)	1(464.7001)	-1(795.2501)	
NOTE: .0100 MHz FROM RECEIVED FREQUENCY RC003				48.2400
168.2999	-9(94.7000)	-2(464.7001)	1(1950.0000)	
NOTE: .0001 MHz FROM RECEIVED FREQUENCY RC057				168.3000
48.3499	9(94.7000)	-1(464.7001)	-2(169.6250)	
NOTE: .0301 MHz FROM RECEIVED FREQUENCY RC001				48.3800
181.2500	-2(94.7000)	-1(464.7001)	2(417.6750)	
NOTE: .0100 MHz FROM RECEIVED FREQUENCY CH08+V				181.2600
64.8000	-6(94.7000)	1(464.7001)	1(168.3000)	
NOTE: .0395 MHz FROM RECEIVED FREQUENCY CH03+C				64.8395
61.3000	2(94.7000)	-1(464.7001)	2(168.3000)	
NOTE: .0400 MHz FROM RECEIVED FREQUENCY CH03+V				61.2600
156.0000	3(94.7000)	-1(464.7001)	2(168.3000)	
NOTE: .0300 MHz FROM RECEIVED FREQUENCY RC010				155.9700
156.0000	3(94.7000)	-1(464.7001)	2(168.3000)	
NOTE: .0450 MHz FROM RECEIVED FREQUENCY RC013				156.0450
65.7250	-6(94.7000)	1(464.7001)	1(169.2250)	
NOTE: .0350 MHz FROM RECEIVED FREQUENCY CH03+A				65.7600

INTERMODULATION STUDY

FREQ (MHz)	COMPONENTS					
469.5500	1(	94.7000)	-1(	464.7001)	2(	419.7750)
NOTE: .0500 MHz FROM RECEIVED FREQUENCY RC020						469.6001
153.2750	7(	94.7000)	-2(	464.7001)	1(	419.7750)
NOTE: .0150 MHz FROM RECEIVED FREQUENCY RC012						153.2900
185.7500	-3(	94.7000)	-1(	464.7001)	2(	467.2750)
NOTE: .0100 MHz FROM RECEIVED FREQUENCY CH08+A						185.7600
48.4000	4(	94.7000)	1(	464.8499)	-1(	795.2501)
NOTE: .0200 MHz FROM RECEIVED FREQUENCY RC001						48.3800
513.2500	4(	94.7000)	2(	464.8499)	-1(	795.2501)
NOTE: .0000 MHz FROM RECEIVED FREQUENCY CH21 V						513.2500
1985.0001	-6(	94.7000)	2(	464.8499)	2(	811.7501)
NOTE: .0000 MHz FROM RECEIVED FREQUENCY RC050						1985.0001
169.1499	1(	94.7000)	2(	464.8499)	-1(	855.2500)
NOTE: .0499 MHz FROM RECEIVED FREQUENCY RC052						169.1000
517.7501	6(	94.7000)	-2(	464.8499)	1(	879.2501)
NOTE: .0001 MHz FROM RECEIVED FREQUENCY CH21 A						517.7500
48.7501	1(	94.7000)	-2(	464.8499)	1(	883.7500)
NOTE: .0101 MHz FROM RECEIVED FREQUENCY RC047						48.7400
197.7001	-8(	94.7000)	-2(	464.8499)	1(	1885.0000)
NOTE: .0399 MHz FROM RECEIVED FREQUENCY CH10-A						197.7400
48.2000	9(	94.7000)	-1(	464.8499)	-2(	169.6250)
NOTE: .0400 MHz FROM RECEIVED FREQUENCY RC003						48.2400
65.7500	-6(	94.7000)	1(	464.8499)	1(	169.1000)
NOTE: .0100 MHz FROM RECEIVED FREQUENCY CH03+A						65.7600
197.7000	6(	94.7000)	1(	464.8499)	-2(	417.6750)
NOTE: .0400 MHz FROM RECEIVED FREQUENCY CH10-A						197.7400
155.5500	-5(	94.7000)	1(	464.8499)	1(	164.2000)
NOTE: .0150 MHz FROM RECEIVED FREQUENCY RC011						155.5350
193.1999	-6(	94.7000)	2(	464.8499)	-1(	168.3000)
NOTE: .0401 MHz FROM RECEIVED FREQUENCY CH10-V						193.2400
469.4001	1(	94.7000)	-1(	464.8499)	2(	419.7750)
NOTE: .0001 MHz FROM RECEIVED FREQUENCY RC019						469.4000
184.8499	1(	94.7000)	2(	464.8499)	-2(	419.7750)
NOTE: .0103 MHz FROM RECEIVED FREQUENCY CH08+C						184.8395
193.2000	7(	94.7000)	1(	464.8499)	-2(	467.2750)
NOTE: .0400 MHz FROM RECEIVED FREQUENCY CH10-V						193.2400
61.2250	-6(	94.7000)	1(	464.8499)	1(	164.5750)
NOTE: .0350 MHz FROM RECEIVED FREQUENCY CH03+V						61.2600
155.9250	-5(	94.7000)	1(	464.8499)	1(	164.5750)
NOTE: .0450 MHz FROM RECEIVED FREQUENCY RC010						155.9700
408.6250	-5(	94.7000)	1(	464.8499)	1(	417.2750)
NOTE: .0500 MHz FROM RECEIVED FREQUENCY RC055						408.5750
156.0501	9(	94.7000)	1(	687.2500)	-2(	691.7500)
NOTE: .0051 MHz FROM RECEIVED FREQUENCY RC013						156.0450

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FREQ (MHz)	COMPONENTS				
164.1000	3(	94.7000)	2(	687.2500)	-2(747.2500)
NOTE: .0250 MHz FROM RECEIVED FREQUENCY RC054					164.1250
164.1000	3(	94.7000)	1(	687.2500)	-1(807.2501)
NOTE: .0250 MHz FROM RECEIVED FREQUENCY RC054					164.1250
408.6000	3(	94.7000)	-1(	687.2500)	1(811.7501)
NOTE: .0250 MHz FROM RECEIVED FREQUENCY RC055					408.5750
408.3500	-7(	94.7000)	-1(	687.2500)	2(879.2501)
NOTE: .0500 MHz FROM RECEIVED FREQUENCY RC017					408.3000
172.1500	7(	94.7000)	-2(	687.2500)	1(883.7500)
NOTE: .0000 MHz FROM RECEIVED FREQUENCY RC016					172.1500
480.8001	-1(	94.7000)	-2(	687.2500)	1(1950.0000)
NOTE: .0194 MHz FROM RECEIVED FREQUENCY CH15-C					480.8195
158.6000	-2(	94.7000)	1(	687.2500)	-2(169.6250)
NOTE: .0200 MHz FROM RECEIVED FREQUENCY RC007					158.5800
408.5500	8(	94.7000)	-1(	687.2500)	2(169.1000)
NOTE: .0250 MHz FROM RECEIVED FREQUENCY RC055					408.5750
45.1500	6(	94.7000)	-1(	687.2500)	1(164.2000)
NOTE: .0500 MHz FROM RECEIVED FREQUENCY RC004					45.2000
469.7000	-6(	94.7000)	2(	687.2500)	-2(168.3000)
NOTE: .0000 MHz FROM RECEIVED FREQUENCY RC021					469.7000
739.7500	-3(	94.7000)	1(	687.2500)	2(168.3000)
NOTE: .0000 MHz FROM RECEIVED FREQUENCY CH58 A					739.7500
172.7750	-1(	94.7000)	1(	687.2500)	-1(419.7750)
NOTE: .0000 MHz FROM RECEIVED FREQUENCY RC051					172.7750
164.1000	-9(	94.7000)	1(	687.2500)	2(164.5750)
NOTE: .0250 MHz FROM RECEIVED FREQUENCY RC054					164.1250
45.1500	-8(	94.7000)	-1(	691.7500)	2(747.2500)
NOTE: .0500 MHz FROM RECEIVED FREQUENCY RC004					45.2000
158.2500	-5(	94.7000)	2(	691.7500)	-1(751.7501)
NOTE: .0300 MHz FROM RECEIVED FREQUENCY RC008					158.2900
164.1000	3(	94.7000)	2(	691.7500)	-2(751.7501)
NOTE: .0250 MHz FROM RECEIVED FREQUENCY RC054					164.1250
164.1000	3(	94.7000)	1(	691.7500)	-1(811.7501)
NOTE: .0250 MHz FROM RECEIVED FREQUENCY RC054					164.1250
469.7000	1(	94.7000)	-2(	691.7500)	2(879.2501)
NOTE: .0001 MHz FROM RECEIVED FREQUENCY RC021					469.7000
193.2001	6(	94.7000)	2(	691.7500)	-2(879.2501)
NOTE: .0399 MHz FROM RECEIVED FREQUENCY CH10-V					193.2400
215.7000	6(	94.7000)	-1(	691.7500)	2(169.6250)
NOTE: .0500 MHz FROM RECEIVED FREQUENCY CH13 A					215.7500
456.8000	-8(	94.7000)	2(	691.7500)	-1(169.1000)
NOTE: .0250 MHz FROM RECEIVED FREQUENCY RC018					456.7750
164.1500	-2(	94.7000)	1(	691.7500)	-2(169.1000)
NOTE: .0250 MHz FROM RECEIVED FREQUENCY RC054					164.1250

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FREQ (MHz)	COMPONENTS					
158.6250	-8(	94.7000)	2(	691.7500)	-1(	467.2750)
NOTE: .0450 MHz FROM RECEIVED FREQUENCY RC007						158.5800
48.3500	-7(	94.7000)	2(	747.2500)	-1(	783.2500)
NOTE: .0300 MHz FROM RECEIVED FREQUENCY RC001						48.3800
414.8000	4(	94.7000)	-1(	747.2500)	1(	783.2500)
NOTE: .0250 MHz FROM RECEIVED FREQUENCY RC053						414.8250
164.1000	3(	94.7000)	2(	747.2500)	-2(	807.2501)
NOTE: .0250 MHz FROM RECEIVED FREQUENCY RC054						164.1250
469.7499	-2(	94.7000)	2(	747.2500)	-2(	417.6750)
NOTE: .0499 MHz FROM RECEIVED FREQUENCY RC021						469.7000
153.8500	-8(	94.7000)	1(	747.2500)	1(	164.2000)
NOTE: .0400 MHz FROM RECEIVED FREQUENCY RC009						153.8900
516.8750	2(	94.7000)	1(	747.2500)	-1(	419.7750)
NOTE: .0455 MHz FROM RECEIVED FREQUENCY CH21 C						516.8294
191.7999	3(	94.7000)	1(	747.2500)	-2(	419.7750)
NOTE: .0499 MHz FROM RECEIVED FREQUENCY CH09 A						191.7500
469.3750	2(	94.7000)	1(	747.2500)	-1(	467.2750)
NOTE: .0250 MHz FROM RECEIVED FREQUENCY RC019						469.4000
196.7999	3(	94.7000)	1(	747.2500)	-2(	417.2750)
NOTE: .0196 MHz FROM RECEIVED FREQUENCY CH10-C						196.8195
414.8000	4(	94.7000)	-1(	751.7501)	1(	787.7500)
NOTE: .0250 MHz FROM RECEIVED FREQUENCY RC053						414.8250
184.8500	-7(	94.7000)	-1(	751.7501)	2(	799.7500)
NOTE: .0105 MHz FROM RECEIVED FREQUENCY CH08+C						184.8395
156.0500	9(	94.7000)	-2(	751.7501)	1(	807.2501)
NOTE: .0050 MHz FROM RECEIVED FREQUENCY RC013						156.0450
208.8500	-7(	94.7000)	-1(	751.7501)	2(	811.7501)
NOTE: .0305 MHz FROM RECEIVED FREQUENCY CH12-C						208.8195
164.1000	3(	94.7000)	2(	751.7501)	-2(	811.7501)
NOTE: .0250 MHz FROM RECEIVED FREQUENCY RC054						164.1250
480.8001	9(	94.7000)	2(	751.7501)	-1(	1875.0000)
NOTE: .0194 MHz FROM RECEIVED FREQUENCY CH15-C						480.8195
80.7750	7(	94.7000)	-1(	751.7501)	1(	169.6250)
NOTE: .0445 MHz FROM RECEIVED FREQUENCY CH05-C						80.8195
168.3500	-7(	94.7000)	-1(	783.2500)	2(	807.2501)
NOTE: .0500 MHz FROM RECEIVED FREQUENCY RC057						168.3000
48.3500	-7(	94.7000)	2(	783.2500)	-1(	855.2500)
NOTE: .0300 MHz FROM RECEIVED FREQUENCY RC001						48.3800
169.0900	-7(	94.7000)	1(	783.2500)	1(	48.7400)
NOTE: .0100 MHz FROM RECEIVED FREQUENCY RC052						169.1000
469.6500	-8(	94.7000)	2(	783.2500)	-2(	169.6250)
NOTE: .0500 MHz FROM RECEIVED FREQUENCY RC020						469.6001
408.3000	9(	94.7000)	-1(	783.2500)	2(	169.6250)
NOTE: .0000 MHz FROM RECEIVED FREQUENCY RC017						408.3000

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FREQ (MHz)	COMPONENTS					
48.7500	7(	94.7000)	-1(	783.2500)	1(	169.1000)
NOTE: .0100 MHz FROM RECEIVED FREQUENCY RC047						
162.9499	-6(	94.7000)	2(	783.2500)	-2(	417.6750)
NOTE: .0249 MHz FROM RECEIVED FREQUENCY RC015						
208.8000	7(	94.7000)	-1(	783.2500)	2(	164.5750)
NOTE: .0195 MHz FROM RECEIVED FREQUENCY CH12-C						
45.1500	-8(	94.7000)	-1(	787.7500)	2(	795.2501)
NOTE: .0500 MHz FROM RECEIVED FREQUENCY RC004						
735.2001	-9(	94.7000)	1(	787.7500)	1(	799.7500)
NOTE: .0500 MHz FROM RECEIVED FREQUENCY CH58 V						
156.0500	9(	94.7000)	-2(	787.7500)	1(	879.2501)
NOTE: .0050 MHz FROM RECEIVED FREQUENCY RC013						
214.8000	-1(	94.7000)	-2(	787.7500)	1(	1885.0000)
NOTE: .0295 MHz FROM RECEIVED FREQUENCY CH13 C						
77.2500	-7(	94.7000)	2(	787.7500)	-2(	417.6750)
NOTE: .0100 MHz FROM RECEIVED FREQUENCY CH05-V						
735.2500	3(	94.7000)	1(	787.7500)	-2(	168.3000)
NOTE: .0000 MHz FROM RECEIVED FREQUENCY CH58 V						
172.7499	-6(	94.7000)	2(	787.7500)	-2(	417.2750)
NOTE: .0251 MHz FROM RECEIVED FREQUENCY RC051						
197.7250	6(	94.7000)	-1(	787.7500)	1(	417.2750)
NOTE: .0150 MHz FROM RECEIVED FREQUENCY CH10-A						
164.1000	3(	94.7000)	2(	795.2501)	-2(	855.2500)
NOTE: .0250 MHz FROM RECEIVED FREQUENCY RC054						
48.3500	-7(	94.7000)	2(	795.2501)	-1(	879.2501)
NOTE: .0300 MHz FROM RECEIVED FREQUENCY RC001						
77.2000	-4(	94.7000)	1(	795.2501)	-2(	169.6250)
NOTE: .0400 MHz FROM RECEIVED FREQUENCY CH05-V						
196.8000	7(	94.7000)	-1(	795.2501)	2(	164.5750)
NOTE: .0195 MHz FROM RECEIVED FREQUENCY CH10-C						
164.1000	3(	94.7000)	2(	799.7500)	-2(	859.7500)
NOTE: .0250 MHz FROM RECEIVED FREQUENCY RC054						
469.6900	-4(	94.7000)	1(	799.7500)	1(	48.7400)
NOTE: .0100 MHz FROM RECEIVED FREQUENCY RC021						
190.8001	-1(	94.7000)	-2(	799.7500)	1(	1885.0000)
NOTE: .0295 MHz FROM RECEIVED FREQUENCY CH09 C						
81.7000	-4(	94.7000)	1(	799.7500)	-2(	169.6250)
NOTE: .0400 MHz FROM RECEIVED FREQUENCY CH05-A						
211.2500	-8(	94.7000)	1(	799.7500)	1(	169.1000)
NOTE: .0000 MHz FROM RECEIVED FREQUENCY CH13 V						
187.2500	-3(	94.7000)	1(	799.7500)	-2(	164.2000)
NOTE: .0000 MHz FROM RECEIVED FREQUENCY CH09 V						
516.8251	-7(	94.7000)	2(	799.7500)	-1(	419.7750)
NOTE: .0045 MHz FROM RECEIVED FREQUENCY CH21 C						

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191.7500	-6(	94.7000)	2(	799.7500)	-2(	419.7750)
NOTE: .0000 MHz FROM RECEIVED FREQUENCY CH09 A						191.7500
48.3750	-3(	94.7000)	1(	799.7500)	-1(	467.2750)
NOTE: .0050 MHz FROM RECEIVED FREQUENCY RC001						48.3800
480.8500	-3(	94.7000)	2(	799.7500)	-2(	417.2750)
NOTE: .0305 MHz FROM RECEIVED FREQUENCY CH15-C						480.8195
185.7250	6(	94.7000)	-1(	799.7500)	1(	417.2750)
NOTE: .0350 MHz FROM RECEIVED FREQUENCY CH08+A						185.7600
469.8250	9(	94.7000)	-1(	799.7500)	1(	417.2750)
NOTE: .0250 MHz FROM RECEIVED FREQUENCY RC022						469.8500
45.1500	-8(	94.7000)	2(	807.2501)	-1(	811.7501)
NOTE: .0500 MHz FROM RECEIVED FREQUENCY RC004						45.2000
158.5999	7(	94.7000)	2(	807.2501)	-1(	2118.7999)
NOTE: .0199 MHz FROM RECEIVED FREQUENCY RC007						158.5800
414.8499	-7(	94.7000)	-1(	807.2501)	1(	1885.0000)
NOTE: .0250 MHz FROM RECEIVED FREQUENCY RC053						414.8250
516.8001	9(	94.7000)	2(	807.2501)	-1(	1950.0000)
164.1250	-5(	94.7000)	1(	807.2501)	-1(	516.8294
NOTE: .0000 MHz FROM RECEIVED FREQUENCY CH21 C						169.6250)
408.2750	-6(	94.7000)	1(	807.2501)	1(	164.1250
NOTE: .0250 MHz FROM RECEIVED FREQUENCY RC054						169.2250)
469.4251	-8(	94.7000)	1(	807.2501)	1(	408.3000
NOTE: .0251 MHz FROM RECEIVED FREQUENCY RC017						419.7750)
184.8000	7(	94.7000)	-1(	807.2501)	2(	469.4000
NOTE: .0395 MHz FROM RECEIVED FREQUENCY CH08+C						164.5750)
462.3250	9(	94.7000)	-1(	807.2501)	1(	184.8395
NOTE: .0500 MHz FROM RECEIVED FREQUENCY RC059						417.2750)
738.8500	-6(	94.7000)	-1(	811.7501)	1(	462.2750
NOTE: .0205 MHz FROM RECEIVED FREQUENCY CH58 C						2118.7999)
211.2001	-3(	94.7000)	-2(	811.7501)	1(	738.8295
NOTE: .0499 MHz FROM RECEIVED FREQUENCY CH13 V						2118.7999)
169.1500	-5(	94.7000)	1(	811.7501)	-1(	211.2500
NOTE: .0500 MHz FROM RECEIVED FREQUENCY RC052						169.1000)
477.2500	-7(	94.7000)	1(	811.7501)	2(	169.1000
NOTE: .0100 MHz FROM RECEIVED FREQUENCY CH15-V						164.2000)
208.8500	9(	94.7000)	-1(	811.7501)	1(	477.2400
NOTE: .0305 MHz FROM RECEIVED FREQUENCY CH12-C						168.3000)
209.7750	9(	94.7000)	-1(	811.7501)	1(	208.8195
NOTE: .0350 MHz FROM RECEIVED FREQUENCY CH12-A						169.2250)
215.7500	-6(	94.7000)	2(	811.7501)	-2(	419.7750)
NOTE: .0000 MHz FROM RECEIVED FREQUENCY CH13 A						215.7500
172.1750	-9(	94.7000)	1(	855.2500)	1(	169.2250)
NOTE: .0250 MHz FROM RECEIVED FREQUENCY RC016						172.1500

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1944.9501	-1(94.7000) 2(855.2500) 2(164.5750)
NOTE:	.0499 MHz FROM RECEIVED FREQUENCY RC049 1945.0000
153.8750	-3(94.7000) 1(855.2500) -1(417.2750)
NOTE:	.0150 MHz FROM RECEIVED FREQUENCY RC009 153.8900
162.9499	-9(94.7000) -1(859.7500) 1(1875.0000)
NOTE:	.0249 MHz FROM RECEIVED FREQUENCY RC015 162.9250
408.5300	-6(94.7000) 1(879.2501) 2(48.7400)
NOTE:	.0450 MHz FROM RECEIVED FREQUENCY RC055 408.5750
12270.0500	4(94.7000) -1(883.7500) 1(12774.9991)
NOTE:	.0498 MHz FROM RECEIVED FREQUENCY RC037 12269.9999
172.1100	-7(94.7000) 1(883.7500) -1(48.7400)
NOTE:	.0400 MHz FROM RECEIVED FREQUENCY RC016 172.1500
517.7500	-5(94.7000) -1(883.7500) 1(1875.0000)
NOTE:	.0000 MHz FROM RECEIVED FREQUENCY CH21 A 517.7500
196.8250	7(94.7000) -1(883.7500) 1(417.6750)
NOTE:	.0055 MHz FROM RECEIVED FREQUENCY CH10-C 196.8195
164.0996	3(94.7000) -2(12530.0002) 2(12469.9997)
NOTE:	.0254 MHz FROM RECEIVED FREQUENCY RC054 164.1250
48.1992	6(94.7000) 2(12469.9997) -2(12730.0000)
NOTE:	.0408 MHz FROM RECEIVED FREQUENCY RC003 48.2400
462.2998	9(94.7000) 1(12510.0004) -1(12899.9996)
NOTE:	.0248 MHz FROM RECEIVED FREQUENCY RC059 462.2750
208.7998	4(94.7000) 1(12730.0000) -1(12899.9996)
NOTE:	.0197 MHz FROM RECEIVED FREQUENCY CH12-C 208.8195
462.3008	9(94.7000) 2(12730.0000) -2(12925.0001)
NOTE:	.0258 MHz FROM RECEIVED FREQUENCY RC059 462.2750
65.7350	3(94.7000) -1(48.7400) -1(169.6250)
NOTE:	.0250 MHz FROM RECEIVED FREQUENCY CH03+A 65.7600
181.2600	6(94.7000) -1(48.7400) -2(169.1000)
NOTE:	.0000 MHz FROM RECEIVED FREQUENCY CH08+V 181.2600
153.3050	5(94.7000) 2(48.7400) -1(417.6750)
NOTE:	.0150 MHz FROM RECEIVED FREQUENCY RC012 153.2900
477.2600	2(94.7000) -1(48.7400) 2(168.3000)
NOTE:	.0200 MHz FROM RECEIVED FREQUENCY CH15-V 477.2400
469.7400	8(94.7000) 1(48.7400) -2(168.3000)
NOTE:	.0399 MHz FROM RECEIVED FREQUENCY RC021 469.7000
414.7901	-5(94.7000) 1(48.7400) 2(419.7750)
NOTE:	.0349 MHz FROM RECEIVED FREQUENCY RC053 414.8250
513.2350	1(94.7000) -1(48.7400) 1(467.2750)
NOTE:	.0150 MHz FROM RECEIVED FREQUENCY CH21 V 513.2500
185.7100	-1(94.7000) -1(48.7400) 2(164.5750)
NOTE:	.0500 MHz FROM RECEIVED FREQUENCY CH08+A 185.7600
469.8100	2(94.7000) -1(48.7400) 2(164.5750)
NOTE:	.0399 MHz FROM RECEIVED FREQUENCY RC022 469.8500

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FREQ (MHz)	COMPONENTS					
168.2650	3(	94.7000)	1(	48.7400)	-1(	164.5750)
NOTE:	.0350 MHz FROM	RECEIVED FREQUENCY	RC057			168.3000
477.2500	-6(	94.7000)	1(	1885.0000)	-2(	419.7750)
NOTE:	.0100 MHz FROM	RECEIVED FREQUENCY	CH15-V			477.2400
414.8499	7(	94.7000)	1(	169.6250)	-1(	417.6750)
NOTE:	.0250 MHz FROM	RECEIVED FREQUENCY	RC053			414.8250
81.7499	8(	94.7000)	-2(	169.6250)	-2(	168.3000)
NOTE:	.0099 MHz FROM	RECEIVED FREQUENCY	CH05-A			81.7400
208.7750	4(	94.7000)	-2(	169.6250)	1(	169.2250)
NOTE:	.0445 MHz FROM	RECEIVED FREQUENCY	CH12-C			208.8195
190.8250	-6(	94.7000)	2(	169.6250)	1(	419.7750)
NOTE:	.0045 MHz FROM	RECEIVED FREQUENCY	CH09 C			190.8295
480.8250	-3(	94.7000)	-1(	169.6250)	2(	467.2750)
NOTE:	.0055 MHz FROM	RECEIVED FREQUENCY	CH15-C			480.8195
156.0750	3(	94.7000)	2(	169.6250)	-1(	467.2750)
NOTE:	.0300 MHz FROM	RECEIVED FREQUENCY	RC013			156.0450
64.8250	-1(	94.7000)	-1(	169.6250)	2(	164.5750)
NOTE:	.0145 MHz FROM	RECEIVED FREQUENCY	CH03+C			64.8395
164.1249	7(	94.7000)	-1(	169.6250)	-2(	164.5750)
NOTE:	.0001 MHz FROM	RECEIVED FREQUENCY	RC054			164.1250
211.2000	-3(	94.7000)	-2(	169.6250)	2(	417.2750)
NOTE:	.0500 MHz FROM	RECEIVED FREQUENCY	CH13 V			211.2500
456.8250	4(	94.7000)	-2(	169.6250)	1(	417.2750)
NOTE:	.0500 MHz FROM	RECEIVED FREQUENCY	RC018			456.7750
153.8750	-1(	94.7000)	-1(	169.1000)	1(	417.6750)
NOTE:	.0150 MHz FROM	RECEIVED FREQUENCY	RC009			153.8900
477.2000	-2(	94.7000)	2(	169.1000)	2(	164.2000)
NOTE:	.0400 MHz FROM	RECEIVED FREQUENCY	CH15-V			477.2400
65.8000	6(	94.7000)	-2(	169.1000)	-1(	164.2000)
NOTE:	.0400 MHz FROM	RECEIVED FREQUENCY	CH03+A			65.7600
61.2750	-2(	94.7000)	-1(	169.1000)	1(	419.7750)
NOTE:	.0150 MHz FROM	RECEIVED FREQUENCY	CH03+V			61.2600
155.9750	-1(	94.7000)	-1(	169.1000)	1(	419.7750)
NOTE:	.0050 MHz FROM	RECEIVED FREQUENCY	RC010			155.9700
162.8750	-5(	94.7000)	1(	169.1000)	1(	467.2750)
NOTE:	.0500 MHz FROM	RECEIVED FREQUENCY	RC015			162.9250
184.8750	2(	94.7000)	-1(	169.1000)	1(	164.5750)
NOTE:	.0355 MHz FROM	RECEIVED FREQUENCY	CH08+C			184.8395
187.2750	-6(	94.7000)	2(	169.1000)	1(	417.2750)
NOTE:	.0250 MHz FROM	RECEIVED FREQUENCY	CH09 V			187.2500
481.7501	-2(	94.7000)	2(	417.6750)	-1(	164.2000)
NOTE:	.0101 MHz FROM	RECEIVED FREQUENCY	CH15-A			481.7401
61.2500	6(	94.7000)	-2(	417.6750)	2(	164.2000)
NOTE:	.0100 MHz FROM	RECEIVED FREQUENCY	CH03+V			61.2600

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155.9499	7(	94.7000)	-2(	417.6750)	2(	164.2000)
NOTE: .0201 MHz FROM RECEIVED FREQUENCY RC010						155.9700
164.1499	7(	94.7000)	-2(	417.6750)	2(	168.3000)
NOTE: .0249 MHz FROM RECEIVED FREQUENCY RC054						164.1250
187.3000	2(	94.7000)	1(	417.6750)	-1(	419.7750)
NOTE: .0500 MHz FROM RECEIVED FREQUENCY CH09 V						187.2500
48.4000	-3(	94.7000)	1(	164.2000)	1(	168.3000)
NOTE: .0200 MHz FROM RECEIVED FREQUENCY RC001						48.3800
481.7000	5(	94.7000)	-2(	164.2000)	2(	168.3000)
NOTE: .0400 MHz FROM RECEIVED FREQUENCY CH15-A						481.7401
469.4000	5(	94.7000)	1(	164.2000)	-1(	168.3000)
NOTE: .0000 MHz FROM RECEIVED FREQUENCY RC019						469.4000
196.8500	-5(	94.7000)	-1(	164.2000)	2(	417.2750)
NOTE: .0305 MHz FROM RECEIVED FREQUENCY CH10-C						196.8195
155.5500	-9(	94.7000)	1(	168.3000)	2(	419.7750)
NOTE: .0150 MHz FROM RECEIVED FREQUENCY RC011						155.5350
513.2501	-7(	94.7000)	2(	168.3000)	2(	419.7750)
NOTE: .0001 MHz FROM RECEIVED FREQUENCY CH21 V						513.2500
197.7501	-5(	94.7000)	-1(	168.3000)	2(	419.7750)
NOTE: .0101 MHz FROM RECEIVED FREQUENCY CH10-A						197.7400
408.2500	-1(	94.7000)	-2(	168.3000)	2(	419.7750)
NOTE: .0500 MHz FROM RECEIVED FREQUENCY RC017						408.3000
408.5500	-2(	94.7000)	-2(	168.3000)	2(	467.2750)
NOTE: .0250 MHz FROM RECEIVED FREQUENCY RC055						408.5750
414.7750	3(	94.7000)	-2(	168.3000)	1(	467.2750)
NOTE: .0500 MHz FROM RECEIVED FREQUENCY RC053						414.8250
48.4250	9(	94.7000)	-2(	168.3000)	-1(	467.2750)
NOTE: .0450 MHz FROM RECEIVED FREQUENCY RC001						48.3800
48.7750	-3(	94.7000)	1(	168.3000)	1(	164.5750)
NOTE: .0350 MHz FROM RECEIVED FREQUENCY RC047						48.7400
196.8500	2(	94.7000)	2(	168.3000)	-2(	164.5750)
NOTE: .0305 MHz FROM RECEIVED FREQUENCY CH10-C						196.8195
477.2250	5(	94.7000)	1(	168.3000)	-1(	164.5750)
NOTE: .0150 MHz FROM RECEIVED FREQUENCY CH15-V						477.2400
35.1250	3(	94.7000)	1(	168.3000)	-1(	417.2750)
NOTE: .0350 MHz FROM RECEIVED FREQUENCY RC002						35.1600
164.9500	7(	94.7000)	2(	168.3000)	-2(	417.2750)
NOTE: .0125 MHz FROM RECEIVED FREQUENCY RC014						164.9375
196.8250	-5(	94.7000)	-1(	169.2250)	2(	419.7750)
NOTE: .0055 MHz FROM RECEIVED FREQUENCY CH10-C						196.8195
215.8000	9(	94.7000)	-1(	169.2250)	-1(	467.2750)
NOTE: .0500 MHz FROM RECEIVED FREQUENCY CH13 A						215.7500
408.3250	-1(	94.7000)	2(	169.2250)	1(	164.5750)
NOTE: .0251 MHz FROM RECEIVED FREQUENCY RC017						408.3000

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INTERMODULATION STUDY

FREQ (MHz)	COMPONENTS					
408.2750	6(	94.7000)	1(	169.2250)	-2(	164.5750)
NOTE:	.0250 MHz FROM RECEIVED FREQUENCY RC017					408.3000
205.2750	3(	94.7000)	2(	169.2250)	-1(	417.2750)
NOTE:	.0350 MHz FROM RECEIVED FREQUENCY CH12-V					205.2400
414.8499	7(	94.7000)	1(	169.2250)	-1(	417.2750)
NOTE:	.0250 MHz FROM RECEIVED FREQUENCY RC053					414.8250
65.8000	-2(	94.7000)	1(	419.7750)	-1(	164.5750)
NOTE:	.0400 MHz FROM RECEIVED FREQUENCY CH03+A					65.7600
469.4250	4(	94.7000)	1(	419.7750)	-2(	164.5750)
NOTE:	.0250 MHz FROM RECEIVED FREQUENCY RC019					469.4000

END OF STUDY; 621 RESULTANTS PRINTED

PROPOSED FM
Mohave Sun Broadcasting
94.7 MHz CHANNEL 234 C
Kingman, Arizona
February 1985

TABULATION OF POPULATION AND AREAS

AREAS

All circular areas were computed by the use of formula. Other areas were measured by means of a K&E Compensating Polar Planimeter.

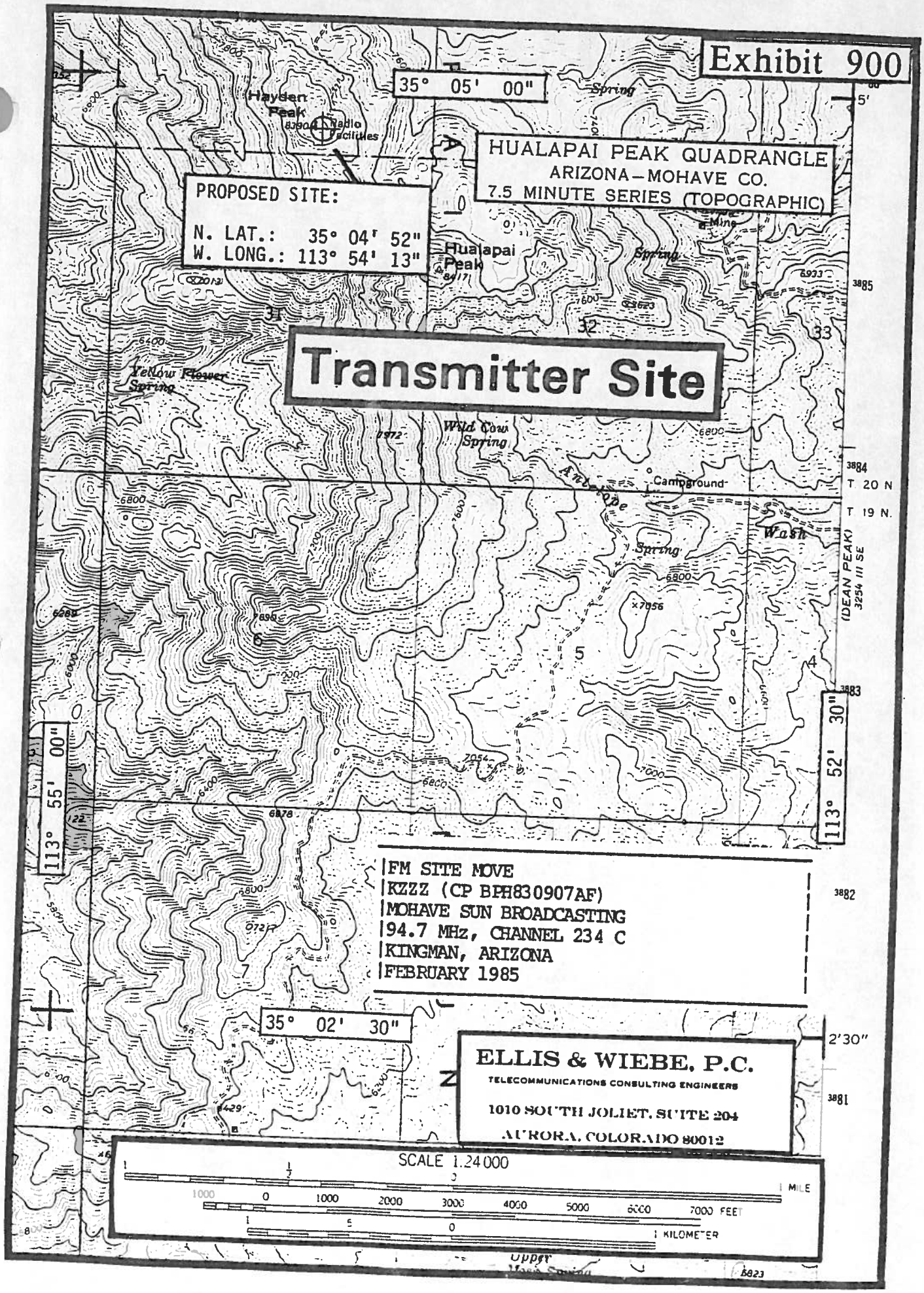
POPULATIONS

The population data were derived from the latest available (1980) U.S. census, report PC80-1-A, "Number of Inhabitants". The contours were plotted on the census maps and the population of the divisions within each contour was totalled. In cases where only a part of a division fell within a contour, a uniform population distribution within the division was assumed.

The following table summarizes the population and areas included in the proposed coverage contours:

CONTOUR	POPULATION	AREA (sq. mi.)
70 dBu (3.16 mV/m)	5,324	10,225
60 dBu (1.00 mV/m)	31,112	60,140

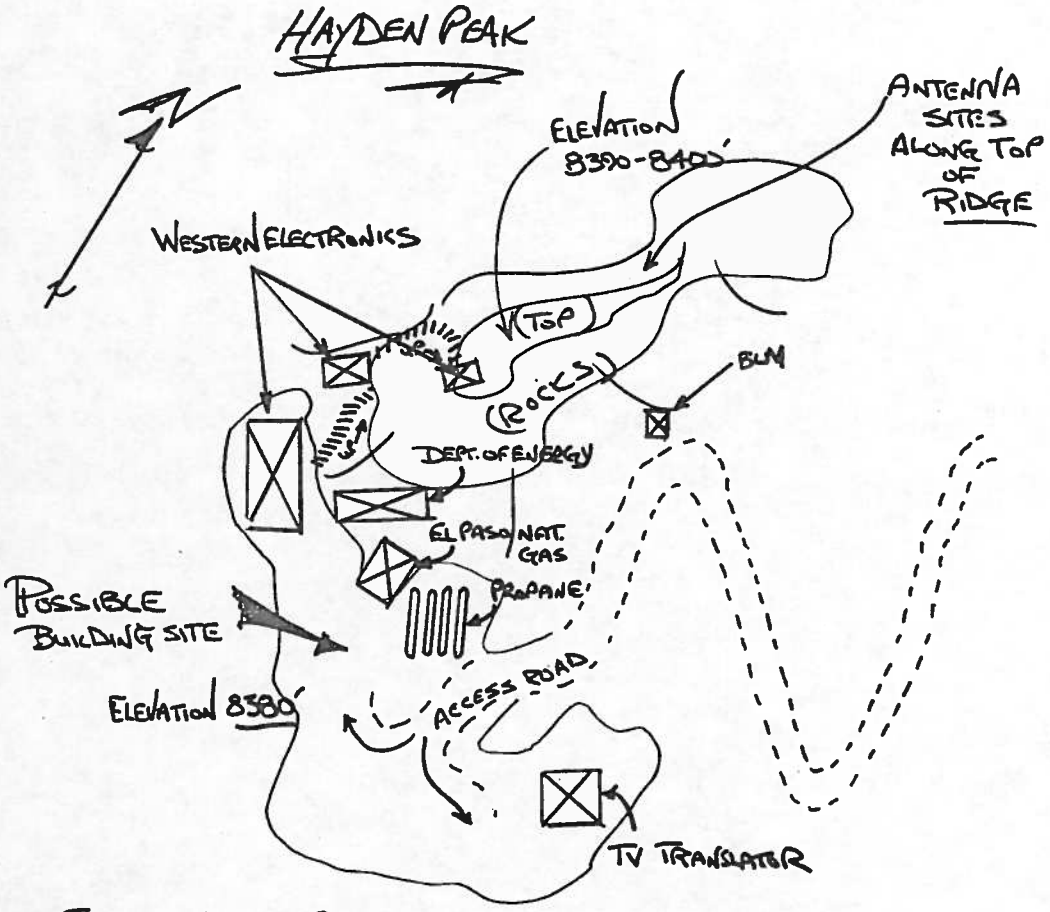
Exhibit 900


35° 05' 00"
HUALAPAI PEAK QUADRANGLE
ARIZONA – MOHAVE CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
PROPOSED SITE:
N. LAT.: 35° 04' 52"
W. LONG.: 113° 54' 13"
Hayden Peak
Radio Facilities
Hualapai Peak
Mine
Spring
Transmitter Site
Yellow Flower Spring
Wild Cow Spring
Antelope Wash
Campground
(DEAN PEAK) 3254 III SE
T 20 N
T 19 N.
113° 55' 00"
113° 52' 30"
35° 02' 30"
2'30"
FM SITE MOVE
KZZZ (CP BPH830907AF)
MOHAVE SUN BROADCASTING
94.7 MHz, CHANNEL 234 C
KINGMAN, ARIZONA
FEBRUARY 1985
ELLIS & WIEBE, P.C.
TELECOMMUNICATIONS CONSULTING ENGINEERS
1010 SOUTH JOLIET, SUITE 204
AURORA, COLORADO 80012
SCALE 1:24 000
MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
KILOMETER

Plat of Tower Site

Exhibit 920

FM SITE MOVE
KZZZ (CP BPH830907AF)
MOHAVE SUN BROADCASTING
94.7 MHz, CHANNEL 234 C
KINGMAN, ARIZONA
FEBRUARY 1985



SKETCH SUPPLIED BY B.L.M.

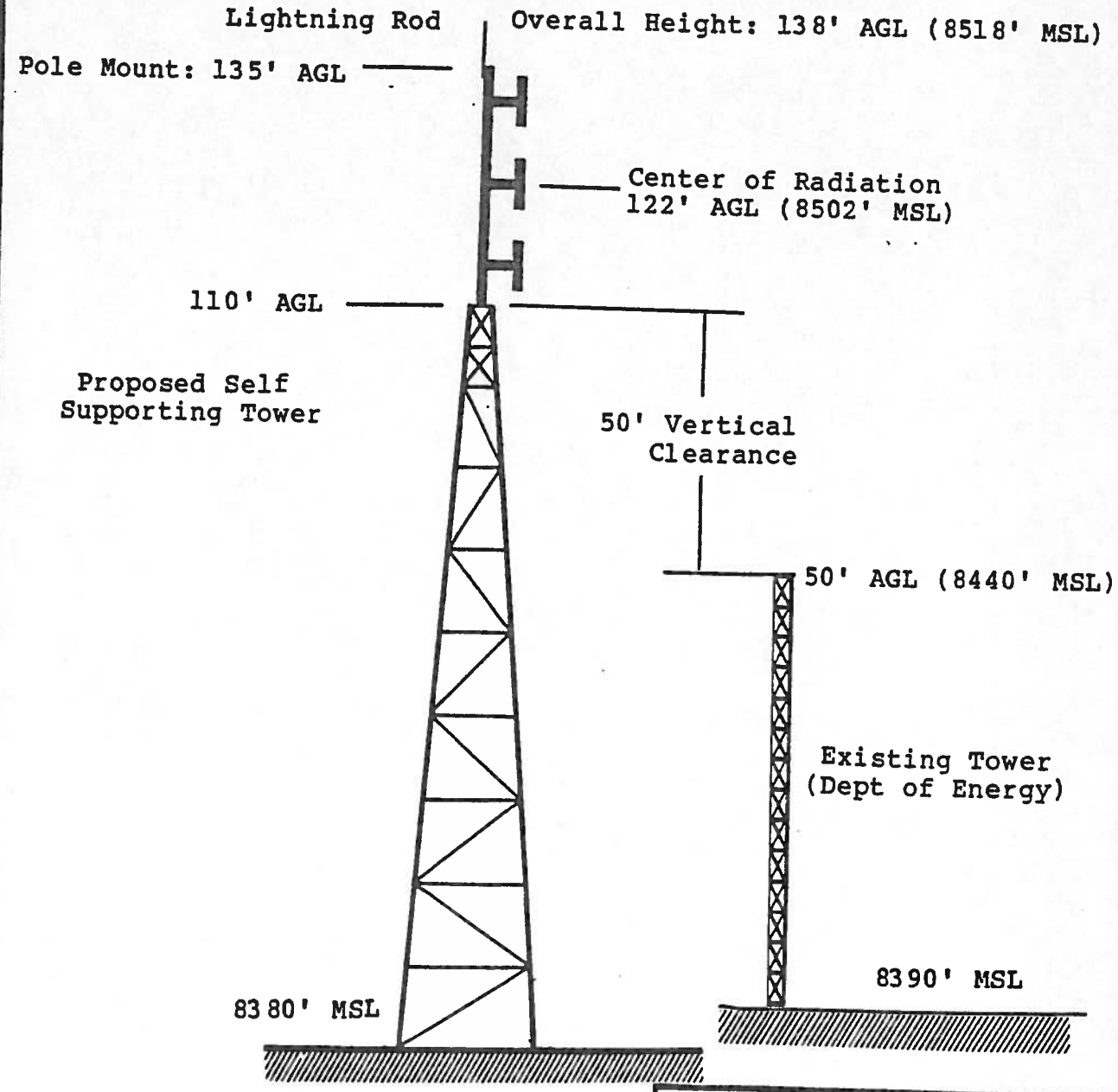
1/4/85

ELLIS & WIEBE, P.C.
TELECOMMUNICATIONS CONSULTING ENGINEERS
1010 SOUTH JOLIET, SUITE 204
AURORA, COLORADO 80012

Exhibit 930

Vertical Tower Diagram

FM SITE MOVE
KZZZ (CP BPH830907AF)
MOHAVE SUN BROADCASTING
94.7 MHz, CHANNEL 234 C
KINGMAN, ARIZONA
FEBRUARY 1985



Not to Scale

ELLIS & WIEBE, P.C.
TELECOMMUNICATIONS CONSULTING ENGINEERS
1010 SOUTH JOLIET, SUITE 204
AURORA, COLORADO 80012

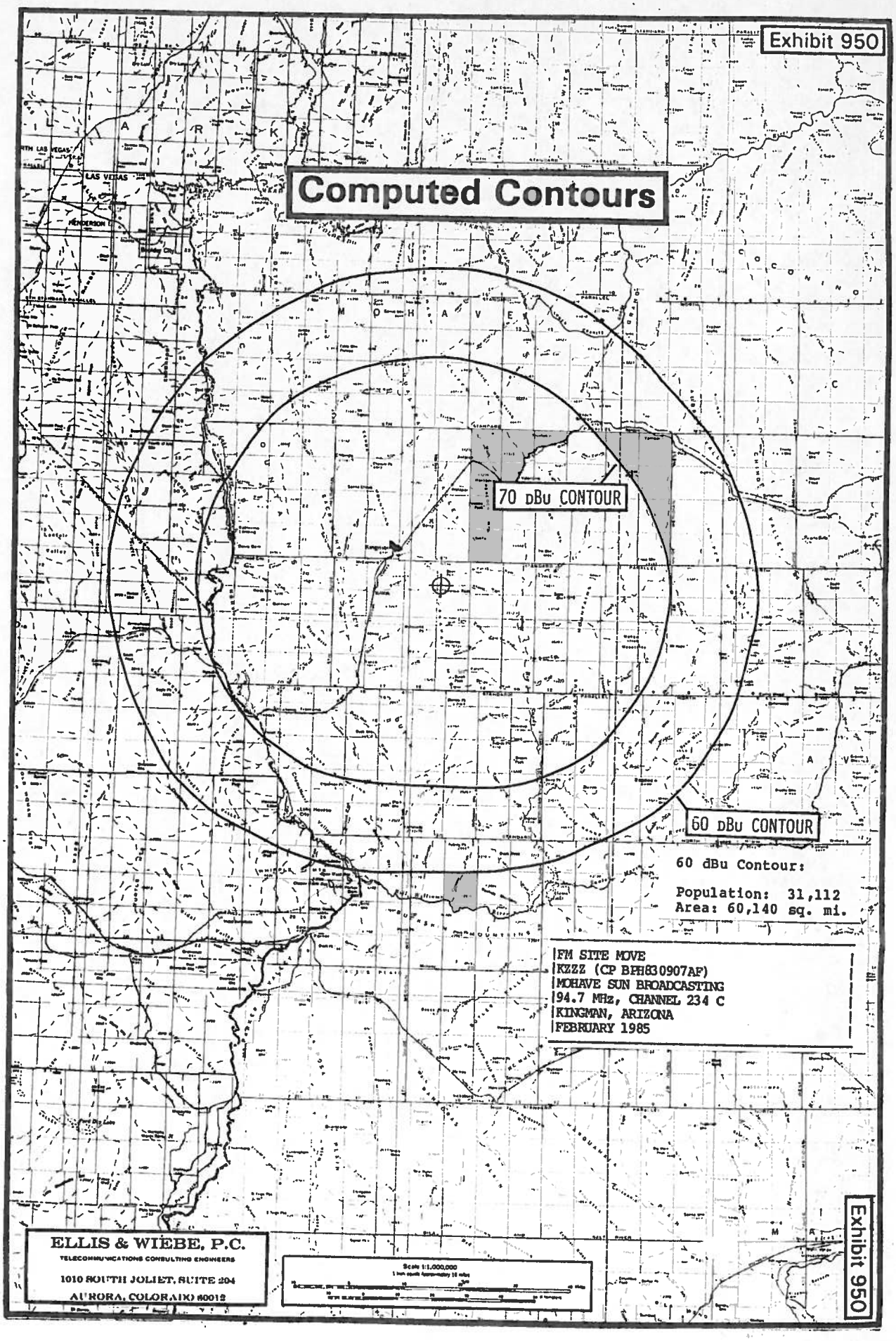


Exhibit 950
Computed Contours
LAS VEGAS
HENDERSON
MOHAVE
70 dBu CONTOUR
60 dBu CONTOUR
60 dBu Contour:
Population: 31,112
Area: 60,140 sq. mi.
FM SITE MOVE
KZZZ (CP BPH830907AF)
MOHAVE SUN BROADCASTING
94.7 MHz, CHANNEL 234 C
KINGMAN, ARIZONA
FEBRUARY 1985
ELLIS & WIEBE, P.C.
TELECOMMUNICATIONS CONSULTING ENGINEERS
1010 SOUTH JOLIET, SUITE 204
AURORA, COLORADO 80012
Exhibit 950

State of Colorado)
County of Arapahoe) ss:
City of Aurora)

Exhibit 1000

Larry D. Ellis, being duly sworn states:

That he is the president and principal engineer of the firm of Ellis & Wiebe P. C., Telecommunications Consulting Engineers, Aurora, Colorado, with offices located at 1010 South Joliet, Suite 204, Aurora, Colorado 80012.

That he has had experience in direct engineering consultation, design, and field engineering with a broad scope of electronic communications facilities including AM, FM, and television broadcast and microwave since 1971. That he is an experienced telecommunications consulting engineer whose qualifications are a matter of record with the Federal Communications Commission of the United States Government. That he has prepared many petitions for rulemakings and applications for construction permits which have been filed with and granted by the Federal Communications Commission. That he has also performed many economic feasibility studies on existing and proposed broadcast properties and many construction cost estimates on communications and broadcast construction projects.

That he holds a Bachelor of Science in Electrical Engineering from the University of Oklahoma conferred in 1970.

That he is a registered Professional Engineer in the states of Colorado and Oklahoma. That he is member of the Association of Federal Communications Consulting Engineers

That the calculations and/or measurements and exhibits herein were made by him personally or under his direction, and that all facts contained herein are true of his own personal knowledge and/or belief.

_____
Larry D. Ellis, P. E.

Subscribed and sworn before me this _____ day of _____, _____.

_____
Notary Public
Date of commission expiration:

840210

State of Colorado)
County of Arapahoe) ss:
City of Aurora)

Exhibit 1001

Michael Wiebe, being duly sworn states:

That he is a principal engineer in the firm of Ellis & Wiebe, P. C., Telecommunications Consulting Engineers, with offices located at 1010 South Joliet, Suite 204, Aurora, Colorado 80012.

That he holds a First Class Radiotelephone operator license issued by the Federal Communications Commission.

That he holds the degree of Bachelor of Science in Electrical Engineering from Texas A&M University conferred in 1971.

That he has experience in direct engineering consultation, design, and field engineering with a broad scope of electronic communications facilities including AM, FM, and television broadcast and microwave since 1979. That he is an experienced telecommunications consulting engineer whose qualifications are a matter of record with the Federal Communications Commission of the United States Government. That he has prepared many petitions for rulemakings and applications for construction permits which have been filed with and granted by the Federal Communications Commission. That he has also performed many economic feasibility studies on existing and proposed broadcast properties and many construction cost estimates on communications and broadcast construction projects.

That he is a registered Professional Engineer in the state of Colorado.

That the calculations and/or measurements and exhibits herein were made by him personally or under his direction, and that all facts contained herein are true of his own personal knowledge and/or belief.

_____
Michael Wiebe, P.E.

Subscribed and sworn before me this _____ day of _____, _____

_____
Notary Public
Date of commission expiration:

840418