

IBFS TRACKING SHEET

CALL SIGN: NEW

APPLICATION TYPE:

- CP
- LIC
- RENEWAL
- MOD
- TRANSFER

FLN "IB-IHF-20120302-00001"

IBFS NO: IHF-CP-20120302-00001

ACCEPTED PUBLIC NOTICE: _____

ACTION:

GRANT OF APPLICATION: _____

EXPIRATION DATE: _____

SPECIAL CONDITIONS:

COMPLETION / PN: _____

418-2422

Thomas Lucey

From: Navid Golshahi
Sent: Wednesday, June 06, 2012 8:43 AM
To: Thomas Lucey
Subject: RE: IRAC coordination for an application for a new HF Broadcasting station

ok

From: Thomas Lucey
Sent: Tuesday, June 05, 2012 5:08 PM
To: Navid Golshahi
Subject: RE: IRAC coordination for an application for a new HF Broadcasting station

Navid,

I will be in on Thursday. If you are in, we could talk in the morning.

Thanks,
Tom

From: Navid Golshahi
Sent: Tuesday, June 05, 2012 2:01 PM
To: Thomas Lucey
Cc: Mark Settle; John Kennedy
Subject: RE: IRAC coordination for an application for a new HF Broadcasting station

Tom,

Give me a call or stop by in my office when you get chance 7-C210.
Thanks,
Navid

From: Mark Settle
Sent: Tuesday, June 05, 2012 1:54 PM
To: Thomas Lucey; Navid Golshahi; John Kennedy
Subject: Re: IRAC coordination for an application for a new HF Broadcasting station

Tom,

Please work with Navid Golshahi in spectrum coordination branch.

Thanks,

Mark

From: Thomas Lucey
Sent: Tuesday, June 05, 2012 01:45 PM
To: Mark Settle
Subject: IRAC coordination for an application for a new HF Broadcasting station

Mark,

6/7/2012

Tom Polzin, who used to do the HF Broadcasting applications, retired at the end of last year. We have an application for a new station. I know that we need to do an IRAC coordination, but I am not sure what the procedure is - what you all need from me and who in your office I should contact on this matter.

Thanks,

Tom Lucey

READ INSTRUCTIONS CAREFULLY
BEFORE PROCEEDING

FEDERAL COMMUNICATIONS COMMISSION
REMITTANCE ADVICE
FORM 159

Approved by OMB
3060-0589
Page No 1 of 2

(1) LOCKBOX # 979093		SPECIAL USE ONLY	
		FCC USE ONLY	
SECTION A - PAYER INFORMATION			
(2) PAYER NAME (if paying by credit card enter name exactly as it appears on the card) INTERNATIONAL MISSIONS FELLOWSHIP		(3) TOTAL AMOUNT PAID (U.S. Dollars and cents) \$2,925.⁰⁰	
(4) STREET ADDRESS LINE NO. 1 3068 2ND ST.			
(5) STREET ADDRESS LINE NO. 2			
(6) CITY NORCO		(7) STATE CA	(8) ZIP CODE 92860
(9) DAYTIME TELEPHONE NUMBER (include area code) 951-906-8884		(10) COUNTRY CODE (if not in U.S.A.)	
FCC REGISTRATION NUMBER (FRN) REQUIRED			
(11) PAYER (FRN) 0021542469		(12) FCC USE ONLY	
IF MORE THAN ONE APPLICANT, USE CONTINUATION SHEETS (FORM 159-C) COMPLETE SECTION BELOW FOR EACH SERVICE, IF MORE BOXES ARE NEEDED, USE CONTINUATION SHEET			
(13) APPLICANT NAME INTERNATIONAL FELLOWSHIP OF CHURCHES, INC. dba IMF WORLD MISSIONS			
(14) STREET ADDRESS LINE NO. 1 3068 2ND ST.			
(15) STREET ADDRESS LINE NO. 2			
(16) CITY NORCO		(17) STATE CA	(18) ZIP CODE 92860
(19) DAYTIME TELEPHONE NUMBER (include area code) 951-906-8884		(20) COUNTRY CODE (if not in U.S.A.)	
FCC REGISTRATION NUMBER (FRN) REQUIRED			
(21) APPLICANT (FRN) 0021542469		(22) FCC USE ONLY	
COMPLETE SECTION C FOR EACH SERVICE, IF MORE BOXES ARE NEEDED, USE CONTINUATION SHEET			
(23A) CALL SIGN/OTHER ID KIMF	(24A) PAYMENT TYPE CODE MSN	(25A) QUANTITY	
(26A) FEE DUE FOR (PTC) 2925.⁰⁰	(27A) TOTAL FEE 2925.⁰⁰	FCC USE ONLY	
(28A) FCC CODE 1	(29A) FCC CODE 2		
(23B) CALL SIGN/OTHER ID	(24B) PAYMENT TYPE CODE	(25B) QUANTITY	
(26B) FEE DUE FOR (PTC)	(27B) TOTAL FEE	FCC USE ONLY	
(28B) FCC CODE 1	(29B) FCC CODE 2		
SECTION D - CERTIFICATION			
CERTIFICATION STATEMENT I, JAMES K. PLANK ARE , certify under penalty of perjury that the foregoing and supporting information is true and correct to the best of my knowledge, information and belief.			
SIGNATURE <i>James K. Plank</i>		DATE 3-1-2012	
SECTION E - CREDIT CARD PAYMENT INFORMATION			
MASTERCARD _____ VISA _____ AMEX _____ DISCOVER _____			
ACCOUNT NUMBER _____		EXPIRATION DATE _____	
I hereby authorize the FCC to charge my credit card for the service(s)/authorization herein described.			
SIGNATURE _____		DATE _____	

ID IB31237

Application for Authority to Construct or Make Changes in an International or Experimental Broadcast Station
(Carefully read instructions before filling out Form—RETURN ONLY FORM TO FCC)

Section I

1. Name of Applicant (See Instruction D)

Street Address (24 characters)

International Fellowship 3068 2nd St.
of Churches, Inc. dba IMF World
City (20 characters) Norco State CA ZIP Code 92860 Telephone No. 951 1603 3466
(Include Area Code)
Missions

2. Name of person to whom communication should be sent if different from Item 1 above.

Name James K. Planck Street Address 9102 Reserve Dr.
City Corona State CA ZIP Code 92883 Telephone No. 951 1906-8884
(Include Area Code)

3. Purpose of Application (Check appropriate boxes)

(a) Application is for: New Station Change in existing authorization
 Major Minor

(b) If this application is for a change in existing facilities, complete Section I plus any other Sections necessary to show all substantial changes in information previously filed with the Commission. Indicate below the Sections completed and filed with this application.

Section II Section III Section IV Section V Section VI Section VII

(c) In the space below refer to information already on file with the Commission which, in accordance with Instruction E, may be incorporated in this application by proper reference.

File or Form No. and Date Section No. Paragraph No.

4. Requested Facilities 1-50KW Transmitter 4-Antennas (Rhombic) 1. Az 40°
Frequency 1-100KW Transmitter Hours of Operation Unlimited 2. Az 108°
(not applicable to international stations) Antenna Input Power 50KW/100KW Call Sign 3. Az 138°
(if application is for an existing station) 4. Az 313°
Type of Station: International Experimental television Experimental facsimile
 Developmental broadcast station

Location of Main Studio

Street Address City State ZIP Code

Approximately 17.5 Mi. SE of Battle Mountain, NV
Approximately 6 Mi. West of Beowawe, NV (Rt. 306)

International Fellowship of Churches, Inc.
dba IMF World Missions

Section 1 (page 2)

Application for facilities other than international broadcast stations signify their understanding that:

- (1) All operation upon the frequency requested is for experimental purposes only;
- (2) The frequency requested may not be the best suited to the particular experimental work to be carried on;
- (3) The frequency requested may not be allocated for any service that may be developed as a result of the experimental operation;
- (4) Any frequency which may be assigned is subject to change without prior notice or right to hearing; and
- (5) Any authorization issued pursuant to the application may be modified or withdrawn at any time without prior notice or right to hearing.

The Applicant hereby waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. (See Section 304 of the Communications Act of 1934.)

The Applicant represents that this application is not filed for the purpose of impeding, obstructing, or delaying determination on any other application with which it may be in conflict.

The Applicant acknowledges that all the statements made in this application and attached exhibits are considered material representations, and that all the exhibits are a material part hereof and are incorporated herein as if set out in full in the application.

Certification

I certify that the statements in this application are true, complete, and correct to the best of my knowledge and belief, and are made in good faith.

Signed and dated this _____ day of Feb., 19 ~~XX~~ 2012

WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND IMPRISONMENT. U.S. CODE, TITLE 18, SECTION 1001.

Dr. James K. Planck
(Name of Applicant)

BY _____
(Signature)

TITLE: President/Technical Director

Exhibits furnished as required by this form:

Exhibit No.	Para. No. of Form	Name of officer or employee (1) by whom or (2) under whose direction exhibit was prepared (show which)	Official Title
L-1	II-6a II-6b	James K. Planck (1)	President/Technical Director
F-1	IV-1	James K. Planck (1)	President/Technical Director
ES-1, 2, 3	V-3, V-4 VG-4	" " " (1)	Technical Director
ES-4	V-5, V-6	" " " (1)	" "
ES-5	V-7a, V9	" " " (1)	" "
	VG-6, VG-8	" " " (1)	" "
ES-6A	V-7a, VG-6, VG-8	" " " (1)	" "
ES-6B	" "	" " " (1)	" "
ES-6C	" "	" " " (1)	" "
ES-7	V-7b, V-7d	" " " (1)	" "
ES-8	V-7d	" " " (1)	" "
ES-9	V-4, VG-5	" " " (1)	" "
ES-10A, B	C, D V-7d	" " " (1)	" "
ES-11 A&B	V-7d	" " " (1)	" "
ES-12	V-7d	" " " (1)	" "
ES-13	V-9	" " " (1)	" "

Section II

Legal Qualifications	Name of Applicant <u>dba IMF World Missions</u> <u>International Fellowship of Churches, Inc.</u>
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1. Legal identity of applicant (Put "X" in appropriate box)

<input type="checkbox"/> Individual	<input type="checkbox"/> Partnership	<input checked="" type="checkbox"/> Corporation
<input type="checkbox"/> Government Entity	<input type="checkbox"/> Other _____ <i>(Specify)</i>	

2. If applicant is an individual, is applicant a citizen of the United States? YES NO

n/a

3. If applicant is a partnership, are all partners citizens of the United States? YES NO

n/a

4. If applicant is a corporation:

a. Under laws of what state was it organized? California

b. Is more than one-fifth of the capital stock of the corporation owned of record or may it be voted by aliens or their representatives or by a foreign government or representative thereof, or by any corporation organized under the laws of a foreign country? YES NO

c. Is any officer or director of the corporation an alien? YES NO

If the answer is "yes", give the following for each:

Name	Nationality	Position

d. Is applicant directly or indirectly controlled by any other corporation? YES NO
If the answer is "yes", give the following for the controlling corporation:

Name	Address	State in which Organized

e. Is more than one-fourth of the capital stock of the controlling corporation either owned of record, or may it be voted by aliens, their representatives, or by a foreign government or representative thereof, or by any corporations organized under the laws of a foreign country? YES NO

n/a

f. Is any officer or more than one-fourth of the directors of the corporation an alien? YES NO

If the answer is "yes", give the name, nationality, and position of each, and give the total number of directors of the corporation:

Name	Nationality	Position	Number of Directors

g. Is the above-described controlling corporation in turn a subsidiary? YES NO

n/a

If the answer is "yes", attach as EXHIBIT NO. _____ additional sheets answering the holding company questions in this paragraph for each company, to and including the organization having ultimate control.

International Fellowship of Churches, Inc.
dba IMF World Missions

Section II, page 2

Legal Qualifications

5. a. If applicant is an unincorporated association, give the following:

Total number of members

Number of Alien Members (if any)

n/a

b. State the following for alien officers or directors (if any):

Name

Nationality

Position

n/a

6. a. What is applicant's principal business?

We are a non-profit Church & International Missionary Ministry

b. Does applicant or any party to this application have an interest in, or connection with, any AM, FM, or television broadcast station (either domestic or foreign), or any application pending before the Commission?

YES NO

If Yes, indicate in Exhibit No. 1 giving full particulars.

7. Is applicant a representative of an alien or of a foreign government?

YES NO

If the answer is Yes, explain.

8. a. Has any radio station authorization previously issued to the applicant or party to this application been revoked, either by the Commission or by court order?

YES NO

b. Has any previous application by the applicant or party to this application been denied by the Commission or by a predecessor agency?

YES NO

If the answer to (a) and/or (b) is "Yes", explain:

9. a. Has applicant or any party to this application been found guilty by any court of any felony?

YES NO

b. Has applicant or any party to this application been finally adjudged guilty by a federal court of the violation of the laws of the United States relating to unlawful monopoly, restraint of trade, and/or unfair methods of competition?

YES NO

If the answer to (a) and/or (b) is "Yes", explain:

International Fellowship of Churches, Inc.
dba IMF World Missions

Section III

Financial Qualifications	Name of applicant International Fellowship of Churches, Inc.	FOR COMMISSIONS USE ONLY File No.
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NOTE: If this application is for a change in an operating facility do not fill out this section:

- | | | |
|--|-------------------------------------|--------------------------|
| | YES | NO |
| 1. The applicant certifies that sufficient net liquid assets are on hand or are available from committed sources to construct and operate the requested facilities for three months without revenue. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. The applicant certifies that: | | |
| (a) it has a reasonable assurance of a present firm intention for each agreement to furnish capital or purchase capital stock by parties to the application, each loan by banks, financial institutions or others, and each purchase of equipment on credit; | | |
| (b) it can and will meet all contractual requirements as to collateral, guarantees, and capital investment; | | |
| (c) it has determined that a reasonable assurance exists that all such sources (excluding banks, financial institutions, and equipment manufacturers) have sufficient net liquid assets to meet these commitments. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Section IV

Statement of Program Service of Broadcast Applicant

1. If programs are to be broadcast, attach as Exhibit No. E-1 an outline of program plans and policies.

2. Research program (not applicable to international stations)

n/a

Attach as Exhibit No. _____ a statement outlining in detail the program of research and experimentation proposed and the object or objects thereof including therein a statement that upon authorization the applicant can and will proceed immediately with the proposed program, that the transmission of signals by radio is essential to the proposed program of research and experimentation, that the program of research and experimentation will be conducted by qualified personnel and include as a separate Exhibit No. _____ names and qualifications and an estimate of the period of time which will be required to complete the experimental program and terminate operation. If the transmission of broadcast program material is proposed, supply details as to the source of such program material and explicitly the reasons why the data sought cannot be obtained through the use of an unmodulated carrier, pulses, tones, or test pattern. If public participation is proposed to be sought, state the need therefor.

ENGINEERING DATA	NAME OF APPLICANT (see above)
-------------------------	---

1. Purpose of authorization applied for: (Put "X" in appropriate box)

- Construct a new station
 Modify an existing authorization (Specify)

2. Facilities requested

FREQUENCY*	POWER*	NECESSARY BANDWIDTH (KHZ)	TYPE OF EMISSION*
Will apply to	MW 50 50KW	9 Khz	9K00A3e
FCC on a seasonal basis (see Engineering	PTS HF-100 100KW	9 Khz	9K00R3e

* International (Part 2) applicants need not specify frequency.

* For amplitude modulation television (AMT), give maximum antenna input power during synchronizing pulses. If particulars are not fully described above, such as aural and visual carrier frequencies and power for television and type of emission, etc., supply this information as Exhibit No. Developmental stations using amplitude modulation or frequency modulation, give unmodulated antenna input power. For other types of emission, give a full description of method of determining power as Exhibit No. Describe in Exhibit No. the means which will be used for determining and maintaining power output of the transmitter to the values specified.

* See Part 2 of the Commission's Rules and Regulations.

3. Proposed transmitter location

STATE Nevada	COUNTY Lander	CITY (near) Battle Mountain
Number and Street (or other indication of location) Approximately 17.5 Mi. S-SE of Battl		
Geographic coordinates (to be determined to nearest second) of the proposed antenna structure 6.5 mi. W-NW Beckowas Mtn		
NORTH LATITUDE 40° 35' 53"	WEST LONGITUDE 116° 36' 27"	

7. (a) Antenna structure

Is the proposed construction in the immediate vicinity or does it serve to modify the construction of any AM broadcast station, FM broadcast station, television broadcast station, or other class of radio station?
 YES NO

If "Yes", attach as EXHIBIT No. _____ complete engineering data thereon.

Submit as EXHIBIT No. _____ a vertical plan sketch for the proposed total structure (including supporting buildings, if any) giving heights above ground in feet for all significant features.

Over-all height in feet above ground. (Do not include the height of any obstruction lighting which may be required.)	Over-all height in feet above mean sea level. (Do not include the height of any obstruction lighting which may be required.)
70	5030 AMSL

4. Attach as EXHIBIT No. _____ a topographic map (topographic where obtainable, such as U.S. Geological Survey quadrangles) for the area within 15 miles of the proposed transmitter location and show drawn thereon the following data: ES-2

- Proposed transmitter location—accurately plotted.
- Transmitter location and call signs of all known radio stations (except amateur) and the location of known commercial and government receiving stations within 2 miles of the proposed transmitter location.

(b) Antenna data

NOTE: Applicants for international broadcasting stations should submit all pertinent data regarding antenna characteristics in accordance with the requirements of the International Telecommunication Union's Radio Regulations.

MAKE PTS (Rhombics)	TYPE NO. OR DESCRIPTION 3-Wire 3-18 Mhz
NUMBER OF SECTIONS One (1)	ANTENNA POWER GAIN 10dbi @ 6Mhz 18 dbi @ 18Mhz

5. Transmitting apparatus to be installed

MANUFACTURER 1. Harris 2. PTC	TYPE NO. MW-50 PTC HF-100KW
Rated Unmodulated Carrier Power Output 1) 50 KW (2) 25KW (PTC COMP to 100 KW)	

(If the above transmitter(s) are composite or of a type for which data has not been filed with the F.C.C., attach as EXHIBIT No. _____ a complete technical description of the transmitter(s) and auxiliary equipment with functional (block) diagrams indicating tube complements and the operating constants of the last radio stage. Include also auxiliary radio frequency equipment such as multiplexing networks, sideband filters, etc. If experimental program is likely to make major changes necessary, indicate the tentative arrangement contemplated indicating those portions which are subject to change.)

(c) During course of experimentation, will antenna system be changed?
 YES NO

If "Yes", attach EXHIBIT No. _____ the changes or modifications contemplated.

(d) Is directional antenna proposed?
 If "Yes", attach as EXHIBIT No. _____ complete engineering data thereon.
 YES NO

6. Transmission line proposed to supply power to the antenna from the transmitter

MAKE	TYPE NO.	DESCRIPTION
Andrew	HJ8-50B	Heliax
SIZE IN INCHES (nominal inside transverse dimension) 3"	1. MF-1 640'	1. 93.7% @
	2. MF-2 340'	2. 96.6% @
	B. MF-3 740'	3. 95.4% @
	4. MF-4 540'	4. 94.5% @ 13 Mhz

8. Frequency or percentage of modulation measurement.

(a) Method of measuring or monitoring station frequency.
 Frequency Counter

(b) Method of measuring or monitoring station modulation.
 Modulation Monitor

9. Environmental Statement, See Part 1, Subpart I of the rules.

Would a Commission grant of your application be a major action as defined by Section 1.1305 of the Commission's rules?
 YES NO

If "Yes", attach as EXHIBIT No. _____ the required statement in accordance with Section 1.1311 of the rules. If "No", explain briefly.
 Ant. is less than 100
 13Mhz AGL, Uncontrolled MPE within
 6Mhz Site. (see ES-13 & Engineerin

International Fellowship of Churches, Inc.
dba IMF World Missions

Broadcast Application	FEDERAL COMMUNICATIONS COMMISSION	Section V-G (Antenna)
ANTENNA AND SITE INFORMATION <i>(See Instructions B, Section 1)</i>	NAME OF APPLICANT (see above)	CALL SIGN KIMF
CLASS OF STATION	STATION LOCATION	Engineering Statement)
International Broadcast	(near Battle Mountain, NV) <u>see ES-1, 2, 3, &</u>	

FACILITIES REQUESTED	PURPOSE OF APPLICATION (Put "X" in appropriate box)
1-50KW Transmitter 1-100 KW transmitter 4-Rhombic Antennas 6-18 Mhz	<input checked="" type="checkbox"/> a. New antenna construction <input type="checkbox"/> b. Alteration of existing antenna structure <input type="checkbox"/> c. Change in location

LEGAL COUNSEL	3. Has the FAA been notified of proposed construction? (See Part 17 of FCC Rules)
ADDRESS	<input checked="" type="checkbox"/> YES If yes, give date and office where notice was filed.
CONSULTING ENGINEER	<input type="checkbox"/> NO

James K. Planek Technical Dir
ADDRESS 9102 Reserve Dr. Corona, CA 92883 Western-Pacific Regional Office
Same as filing date FCC form 309

1. LOCATION OF ANTENNA	4. FEATURES OF SURROUNDING TERRAIN			
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">STATE Nevada</td> <td style="width:33%;">COUNTY Lander</td> <td style="width:33%;">CITY OR TOWN near Battle Mountain</td> </tr> </table> <p>Exact antenna location (street address). If outside city limits, give name of nearest town and distance and direction of antenna from the town. SW Qtr. (SW 1/4) Sec. 21 Township 32N Range 47E Approx. 17.5 mi S-SE of Battle Mountain, NV. 6.5 mi. w-nw Geographical coordinates (to nearest second). For directional antenna give coordinates of center of array. For single vertical radiator give tower location. North latitude (see Exhibit ES-1) West longitude (see Exhibit ES-2)</p>	STATE Nevada	COUNTY Lander	CITY OR TOWN near Battle Mountain	<p>Submit as Exhibit No. <u>ES-1</u> a chart on which is plotted the exact location of the antenna site, and also the relative location and height of any natural formation or existing man-made structures (trees, water tanks, towers, buildings, etc.) which, in the opinion of the applicant, would tend to shield the antenna from aircraft. The chart used shall be a 7.5 or 15 minute series topographic quadrangle (choice depending upon proximity of the antenna site to landing areas) or full scale photo copy. On the chart include 1) a scale of miles, 2) sufficient latitude and longitude lines, clearly labeled, so that the location of sites may be verified, and 3) all identifying map information. These charts may be purchased from the U.S. Geological Survey, Washington, D.C. 20242 or, for areas west of the Mississippi River, from the U.S. Geological Survey, Denver, Colorado 80225.</p> <p>(Exception - Where the proposed antenna site is within the boundary of landing areas, submit a self-made, large scale map showing antenna site runways and existing man-made structures.)</p>
STATE Nevada	COUNTY Lander	CITY OR TOWN near Battle Mountain		

2. Is the proposed site the same or immediately adjoining the 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: _____

5. List all landing areas within 10 miles of antenna site. Give distance and direction to the nearest boundary of each landing area from the antenna site.

Landing Area	Distance	Direction
(a) _____ (None see ES-9)	_____	_____
(b) _____	_____	_____
(c) _____	_____	_____

6. Description of antenna system (if directional, give spacing and orientation of towers). (4) 3-wire Rhombic Ant.
1. 40° 2. 108° 3. 138° 4. 313° (see ES 5, ES-6A-C)

Description of tower(s)	Guyed				Tubular (Pole)	
Self-supporting						
Tower (height figures should include obstruction lighting)	#1	#2	#3	#4	#5	#6
Height of radiating elements	69'	69'	69'	69'		
Overall height above ground	70'	70'	70'	70'		
Overall height above mean sea level	5030'	4980'	4980'	5030'		

7. If a combination of AM, FM, or TV operation is proposed on the same multi-element array (either existing or proposed) submit as Exhibit No. _____ a horizontal plan for the proposed antenna system, giving heights of the elements above ground and showing their orientation and spacing in feet. Clearly indicate if any towers are existing.

8. Submit as Exhibit No. ES-5 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.

02/21/2012 Signature James K. Planek
(date) (check appropriate box below)

Technical Director Chief Operator Registered Professional Engineer Consultant

International Fellowship of Churches, Inc
dba IMF World Missions

Section VI

Equal Employment Opportunity Program

1. Does the applicant propose to employ five or more fulltime employees?

YES NO

If the answer is Yes, the applicant must include an EEO program called for in the Model EEO Program. (FCC Form 396-A)

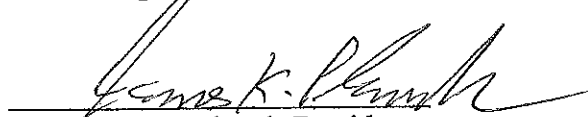
IMF World Missions

Reaching The Nations For Christ



Exhibit L-1 Page 1

International Fellowship of Churches, Inc. dba: IMF World Missions, is a non-profit 501© corporation. In the year 2012 it is celebrating it's 30th year of existence. My wife Maria Planck and I are ordained ministers and the founding missionaries of this organization. IMF has approximately 100 churches and missions located throughout N. America, Latin America, Asia, and Africa. It's associate ministry in Honduras, Iglesia Evangelical Misiones Internacionales de Central America, of which I am also a director, owns and operates Radio MI, a AM & tropical band broadcasting station.



Dr. James K. Planck-President

02/21/2012
Date



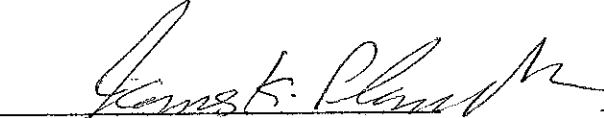
IMF World Missions

Reaching The Nations For Christ



Exhibit F-1 Page 1

The purpose of the construction and operation of this proposed International Station is specifically to serve the remote areas of Mexico, Cuba, Canada, and Western Russia. Secondary service is expected in Central & South America, the Caribbean, as well as Western China and S.E. Asia. The programming content would be religious, educational, and community service. The programs would be in Spanish, English, Bi-Lingual, French, Chinese, Russian, and Indigenous Languages of the areas served. IMF is already producing much of these types of programs from our studios in California, that is being broadcast on various outlets. We would also carry other programmers on the station who have similar objectives and interests for these nations. IMF has a large base of radio programmers to draw from as we have 30 years of missionary service to more than 17 nations.


Dr. James K. Planck-President

02/21/2012
Date

IMF CHURCH-Hdqtrs.
3068 2nd Street
Norco, CA 92860



951-603-3466
Email: jpimf@msn.com
www.imfworldmissions.org

ENGINEERING STATEMENT
International Fellowship of Churches, Inc.
dba IMF World Missions
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INTERNATIONAL FELLOWSHIP OF CHURCHES, INC.
dba IMF WORLD MISSIONS

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INTERNATIONAL FELLOWSHIP OF CHURCHES, INC.
dba IMF WORLD MISSIONS

EXHIBITS

ES-1	Station Location- USGS map 1: 24, 000
ES-2	Station Location- USGS map 1: 250,000
ES-3	Station Location- Nearest Large Cities
ES-4A/D	Technical Description of Transmitters
ES-5	Plot Plan and Facility Layout
ES-6A	PTS Rhombic Antenna Schematic
ES-6B	Antenna Bearings Map
ES-6C	Great Circle Azimuthal Map
ES-7	PTS Rhombic Antenna Radiation Patterns
ES-8	Summary of PTS Rhombic Antenna Data
ES-9	Station Location-FAA Battle Mountain Aeronautical Chart
ES-10A	Sample Coverage Maps 40 Degree Antenna
ES-10B	Sample Coverage Maps 108 Degree Antenna
ES-10C	Sample Coverage Maps 138 Degree Antenna
ES-10D	Sample Coverage Maps 313 Degree Antenna
ES-11A &B	Summaries of Expected Coverage
ES-12	ITU Zonal Coverage Map
ES-13	Maximum Permissible Exposure (MPE) Non-Ionized Radiation Contours

INTERNATIONAL FELLOWSHIP OF CHURCHES, INC.
dba IMF WORLD MISSIONS

Statement of James K. Planck Technical Director

As Technical Director of International Fellowship of Churches, Inc., dba IMF World Missions of Norco, CA, I am providing the engineering data and exhibits required in Section V and V-G of FCC Form 309, for an application for a Construction Permit to establish a new International Broadcast Station near Battle Mountain, Lander County, Nevada.

A. Station Location

The 160-Acre proposed transmitter site is located in a sparsely settled area of Lander County, Nevada, approximately 17.5 miles E-SE of Battle Mountain and approximately 6 miles west of the small town of Bowawe, Nevada & SR 306. There is access to the site by a non-paved road, which passes through the property. The other nearest larger cities are Austin 79.5 miles to the SW and Eureka 82.4 Miles to the SE. The site is between 4920 to 4980 Ft. above mean sea level.

The geographical coordinates of the antenna field radiation center are as follows:

1. MF-1 40 deg. Bearing 40 36 05N
116 36 29W
2. MF-2 108 deg. Bearing 40 35 49N
116 36 23W
3. MF-3 138 deg. Bearing 40 35 47N
116 36 32W
4. MF-4 313 deg. Bearing 40 35 54N
116 36 34W

Exhibit ES-1 shows the proposed transmitter location on a USGS quadrangle topographical map with a scale of 1: 24,000. Exhibit ES-2 shows the area within 10 Statute miles of the site on a USGS topographic map with a scale of 1: 250,000. Exhibit ES-3 shows the proposed site in relation to the nearest large cities.

There are no known commercial or government receiving within a 2-mile radius of the proposed site. The only known transmitting facility is a VOR approximately 16 miles west of the (Call Sign BAM) on 112.2 Mhz (See Exhibit ES-9).

B. Transmission Equipment

One(1) 50 KW, and One(1)100KW (using R3e) International Broadcast (shortwave) are proposed for installation.

A Harris MW-50 transmitter will be modified by Planck Technical Services, Inc. of Corona, California to operate on two(2) selectable preset frequencies between 3 to 16 Mhz.

The second transmitter, a PTS-HF-100 using suppressed carrier (-6db) SSB per 73.757 , will be custom built by Planck Technical Services, to operate on two(2) selectable preset frequencies between approximately 3-18 Mhz.

Exhibits ES-4A, ES-4C and ES-4D contain the required technical details, including a functional block diagram, tube compliment and operating specifications of the final R.F. stages of the proposed transmitters being modified and custom built by Planck Technical Services, Inc.

Exhibit ES-4B Pg 1 is a certification by Planck Technical Services, Inc. that the design of the transmitters being modified and built by them will comply specifically with Section 73.756 and all other applicable standards and specifications contained in the FCC RULES and REGULATIONS.

A Belar AMM-2V modulation monitor, or equivalent, will be used to measure and monitor the station's modulation.

An H.P. 5384A Frequency Counter, or equivalent, will be used to measure and monitor the station's frequencies.

C. Proposed Antenna System

The main geographical areas to which the applicant intends to broadcast, and the azimuthal bearings from the proposed transmitter location are as follows:

<u>Geographical Area</u>	<u>Azimuthal Bearing (degrees)</u>
Canada	40
Caribbean	108

(Continued from Page 2)

<u>Geographical Area</u>	<u>Azimuthal Bearing (degrees)</u>
Central America	138 & 108
Northern South America	108
North Mexico & Mexico	138
Russia (Kamchatka Peninsula) & Western Asia	313

Four(4) identical Rhombic type 3-wire antennas will be utilized to achieve effective coverage of the above listed intended areas of reception. The North Mexico, Central & South Mexico antenna will be on a bearing of 138 degrees T and fed with the 50KW transmitter. This circuit was specifically envisioned to cover all the Northern and Central parts of Mexico especially the Sierra Range where indigenous groups live. Good coverage is expected in the morning and evening hours over all or most of Mexico. Secondary coverage is expected into Central and parts of South America. The Caribbean Antenna on a bearing of 108 degrees is expected to give good coverage over Cuba and all the Caribbean along with coverage in the evening hours into Central & South America. The antenna with a bearing of 40 degrees was designed to give late afternoon/early evening coverage into Canada (coverage areas zones 3-4 &9). The 40 degree and 108 degree antennas would utilize the 100 KW transmitter. The Asia antenna with a bearing of 313 degrees was design to good to fair coverage into zones 35 & 45 with secondary coverage to parts of SE Asia is expected. This antenna will also utilize the 100 KW transmitter during time period of 9-15 UTC.

The Rhombic type antennas will be designed, built, and installed by Planck Technical Services, Inc. Each antenna will be supported by four 70'-foot guyed wooden poles. The antennas will have a leg length of 250 feet and a tilt angle of 70 degrees. The 3-wire radiating element will be 69-feet above ground. All antennas will be designed to Operate between 5 and 18 Mhz, gains varying between 10 dbi at 5/6 Mhz to 18 dbi at 18 Mhz.

Exhibit ES-5 shows the planned antenna layout on the property site of the proposed station. Exhibit ES-6A is a vertical plan sketch of the proposed antenna structure. Plots of the azimuthal bearings are shown in Exhibit ES-6B&C. Exhibit ES-7 contains both vertical and horizontal radiation patterns for the prosed Rhombic antennas. Exhibit ES-8 Summarizes the main technical parameters of the PTS Rhombic type antenna. This data Was provided by Planck Technical Services, Inc.

The design of the proposed antenna system complies with the requirements of Section 73.753 of the FCC RULES and REGULATIONS concerning the use of directional antennas.

D. Propagation And Coverage

The applicant intends to broadcast in Spanish, Russian, Chinese, French, Indigenous languages of Mexico, English, and Bi-Lingual with English. Most of the current program base has been produced Bi-Lingual so that English listeners may also enjoy the programs.

Comprehensive propagation analyses have been undertaken by the applicant. The VOCAP computer propagation program has been used to determine the optimum transmission parameters for the proposed station to each area of intended coverage, and also in the preparation of the intended predicted signal coverage maps. The applicant maintains a complete file of VOCAP produced propagation data as well as signal contour Maps will can be made available to the FCC for inspection. 54 to 48 dbi (Good to Excellent Grade) and 45-42 (Fair to Good Grade), and 42-40 (Fair Grade) are shown for all Rhombic antennas of each bearing Exhibit ES-10A-D. Exhibit ES-11A&B summarizes expected coverage throughout the solar cycle during morning, afternoon, and evening hours local time in the intended reception areas.

The 54 dbi signal contour is equivalent to 500 microvolts per meter, 48 dbi to a strength of 250 microvolts per meter, and 42 dbi to 125 microvolts per meter.

The intended coverage of the "ITU Geographical Zones For Broadcast (CIRAF Zones)" is shown in Exhibit ES-12.

The applicant plan to broadcast mainly during local peak times listening hours between 6:00 to 8:00A and 6:00P to Midnight, and at other times when propagation is expected to be effective. The Asian Circuit the expected broadcast times are 9-15 UTC.

The propagation study shows facilities should be capable of signal levels of 42 dbi or better to all intended reception area during the hours of planed operations to those zones.

E. Site Considerations

The proposed site for the antennas, transmitting building, small storage, and maintenance structures and ancillary facilities comprises approximately 160 A acres. A plot plan and planned antenna and building layout is shown in Exhibit ES-5.

The site is located in Lander County, Nevada approximately 17.5 E-SE of Battle Mountain, NV & approximately 6 miles West of Bowawe, NV & SR 306. See Exhibit ES-1.

The applicant selected this site because of its favorable propagation characteristics to the areas to which the applicant desires to broadcast, its remoteness from human habitation, developed areas and other communication facilities. The site is located on a relative flat to gentle sloping terrain with an average elevation at the transmitter building and antenna locations of approximately 4920 to 4960 feet AMSL. The site is undeveloped and not used commercially at the present time. It is uncultivated shortgrass land.

The applicant confirms the site is uninhabited, and the general area is very sparsely settled. The nearest dwelling is an old homestead area several miles away. Because of its remoteness the site is not likely to be visited or trespassed upon by the public.

The proposed antenna structures will not exceed a height above the ground of 70 feet and are not expected to have any adverse effects on air safety or navigation. The nearest airport is a small landing field approximately 12 Miles SE of the site at Crescent Valley. The nearest commercial and community airport is approximately 15-16 Miles to the west Near Battle Mountain. The FAA will be notified of the proposed construction with the submission of FAA Form 7460-1 to the Western-Pacific Regional Office upon the filing of this application.

F. Environmental Considerations

The granting of this application would not constitute a "major action" as defined in Section 1.1305 of the FCC Rules. The height of the antenna structures will not exceed 70'. No adverse environmental effects resulting from the construction of the proposed station are expected. The grant does not involve a standard broadcast AM directional array or a satellite earth station. The applicant has ascertained that the proposed site is not located on an officially designated wilderness area, wildlife preserve, nor does it involve districts, sites, or building structures which are significantly in American History, architecture, archeology, or culture as listed in the National Register of Historic Places. It does not involve facilities of recreational value, nor a floodplain, nor will it involve extensive changes in surface features such as a wetland fill, deforestation or water diversion. The applicant has further ascertained that there are no known local zoning regulations, which would apply.

There are no known broadcasting or communications facilities within the required two-mile radius of the proposed location. Since the area surrounding the proposed station is so sparsely settled, interference to radio and television reception or to other appliances is very unlikely. The applicant assumes

responsibility for eliminating any interference within the estimated blanketing area if any should occur.

occur. The blanketing area is defined by the 1 volt per meter signal contour, will extend approximately up to 1-1.5 miles from the site.

G. Non-Ionizing Radiation Hazard Considerations

The proposed station will utilize four 3-wire Rhombic antennas. The 40 deg. Canadian Antenna is envisioned to operate during the evening hours of approximately 22 to 02 UTC utilizing 25M or 22M bands. A frequency of no higher than 15.5 Mhz is expected. The 138 deg Caribbean Circuit is expected to Utilize the 25 or 22M Bands between 02-8 UTC with a frequency not higher than 15.5 Mhz. The 138 deg. Mexico circuit is expected to utilize the 5/6 Mhz band in the evening hours 02-8 UTC and the 11/12 Mhz freq. during morning hours. The 313 deg Asian circuit is expected to utilize the 22M Band with no frequencies greater than 16 Mhz with operation in the hours 9-15 UTC.

Two independent studies were used to determine the Controlled and Uncontrolled Maximum Permissible Exposure (MPE) contours as defined in Section 1.1310 "Radio frequency Radiation Exposure Limits" of the FCC Rules and Regulations.

Using the worst-case assumption for the proposed Rhombic antennas for Canada, the Caribbean, and Asia operating at 18 Mhz calculated at 50KW, a computerized program devised by Planck Technical Services, Inc. calculated that the protected Uncontrolled E-Field of 46 V/M would occur at 105 meters (or 345 feet) from the center of the Rhombic antenna along the main bearing, and at 45 Meters, (148') off the sides of the antenna. The distance to the protected Controlled E-Field contour of 103 V/M was found to be negligible.

A comparison of these results was checked against a study done by TCI/BR previously calculating the distances to the Uncontrolled and Controlled E-Field using their antenna wire analysis computerized program. They found that the Uncontrolled E-Field of 46 V/M extended 100 Meters (or 328 feet) from the center of the Rhombic along the main bearing, and up to 75 meters or (246 feet) off the sides. They also confirmed the distance to the controlled E-Field was negligible. Both independent studies were in good agreement with each other. The data is shown graphically in Exhibit ES-13. The

applicant will fence off the Uncontrolled area with non-metallic material out to a distance of at least 350 feet in all directions from the center of each Rhombic antenna. The intended fenced area is shown in Exhibit ES-5. The intended fenced Uncontrolled MPE area falls entirely within the proposed site. The area will be appropriately marked with electromagnetic energy warning signs.

While the Controlled MPE contour was found not to exist, the applicant has decided to take the necessary Controlled area precautions throughout the entire fenced Uncontrolled area. Authorized personnel will be permitted to enter the area for no more than an average 6 min period in any hour, or only when wearing an appropriate personal monitor indicating safe levels of HF radiation. This is an additional safety factor since 30 minutes averaged time is permitted in areas designated as Uncontrolled.

The safeguards that the applicant will follow are in compliance with Section 1.310 "Radio Frequency Exposure Limits", of the FCC Rules and Regulations. There should be no environmental consequences to the proposed International Broadcast Station.

H. Miscellaneous Considerations

The applicant states that the construction, operation, and performance of the proposed International Broadcast Station will be in compliance with good engineering practices as defined in Part 73, Subpart F, of the FCC Rules and Regulations, and the international frequency coordination procedure defined in Article S12 of the "Radio Regulations" of the International Telecommunications Union (ITU).

Unlimited hours of operation are requested. Necessary bandwidth :9 Khz

Types of Emission: 9K00 A3e & 9K00 R3e

Primary ITU Zones of intended coverage are 3,4,9,10,11,12,13, 35, 45. See Exhibit ES-12 for ITU Zonal coverage.

Appropriately licensed operators will be on duty at the transmitter site as required by Section 73.764 of the Rules.

Station Identification will be made in accordance with Section 73.787 of the Rules.

The main studio and control center for the proposed facility will be located at the transmitter site. Program material will be coordinated there from several sources including, tape, CD, Satellite Internet, and live, etc.

I. PUBLIC NOTICE

Battle Mountain, NV

In accordance with Par. 73.3580 of the FCC Rules and Regulations, the following public notification is required to be placed in a daily newspaper of general circulation available locally in the area of Battle Mountain, Nevada for at least twice a week for two consecutive weeks in a three-week period:

“This public notification is made in accordance with Par. 73.3580 of the Rules and Regulations of the Federal Communications Commission (FCC) On Feb. 21, 2012, the International Fellowship of Churches, Inc., dba IMF World Missions applied for an FCC Construction Permit to establish an International Broadcast Station consisting of manly one 50 KW, and one 100 KW shortwave broadcast transmitter, with four Rhombic type antennas. The propose station will be located approximately 6.5 miles W-NW of Bowawe, NV and approximately 17.5 E-SE of Battle Mountain, NV. The station will broadcast, religious, educational, and community service programs to Canada, the Caribbean, Central & South America, Mexico, and Western Asia. The installation will comply fully with applicable FCC Rules & Regulations governing International Broadcast Stations, including considerations and radio frequency transmission safety requirements. A copy of the application will be on file until Mar. 23 , 2012 for public inspection and discussion during regular business hours at the proposed site near Battle Mountain, NV. A copy can also be obtained from IMF World Missions at 3068 2nd Street, Norco, CA 92860. Comments can also be made during this public notification period by interested individuals directly to the Secretary, Federal Communications Commission, Washington, DC 20554. Copies of such comments should also be sent to IMF World Missions.

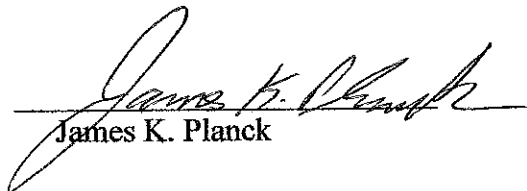
ENGINEERING CERTIFICATION

I certify that I represent the International Fellowship of Churches in the capacity of Technical Director and that I have prepared, or had prepared under my direction and supervision, the preceding statements of technical information. The data contained therein are true and accurate to the best of my knowledge and belief.

I have 50 years of experience in the field of electronics and broadcast station construction & maintenance. I have a BSEE Degree in Electronics, and a Master of Science Degree in Applied Science & Technology. I hold a General Radiotelephone Operator License #PG-11-35879. I am also a licensed Electrical Contractor in the State of California. My company, Planck Technical Services, Inc., of which I am owner and President has Custom built HF Transmitters, Antenna Tuners, and other RF products. We have constructed more than 300 TV, AM, FM, and Shortwave Stations in the USA and other countries.

In my technical capacity with IMF World Missions I will oversee all construction and operation of the proposed facility.

James K. Planck
Technical Director


James K. Planck

02/21/2012
Date

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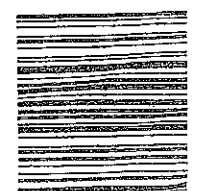
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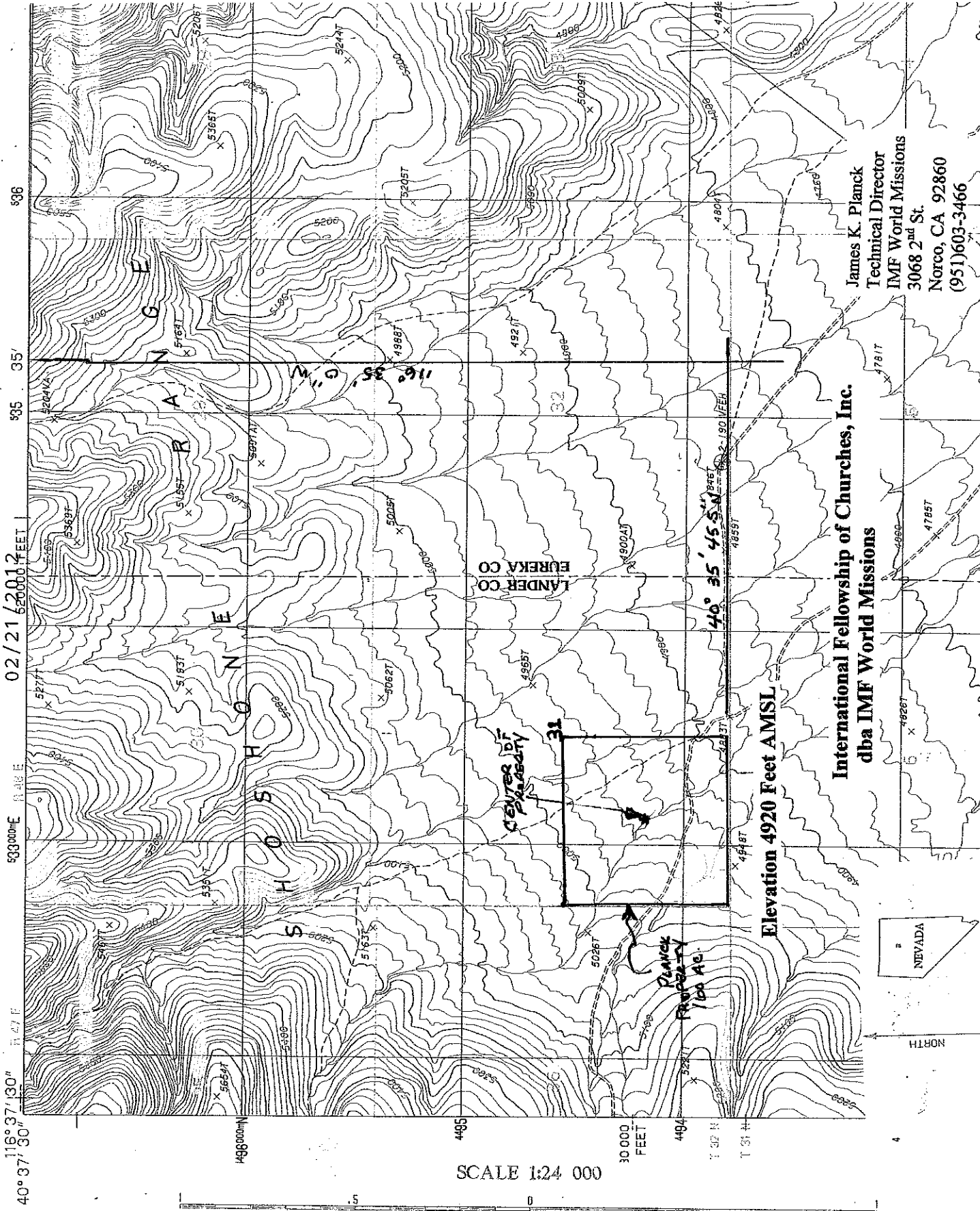
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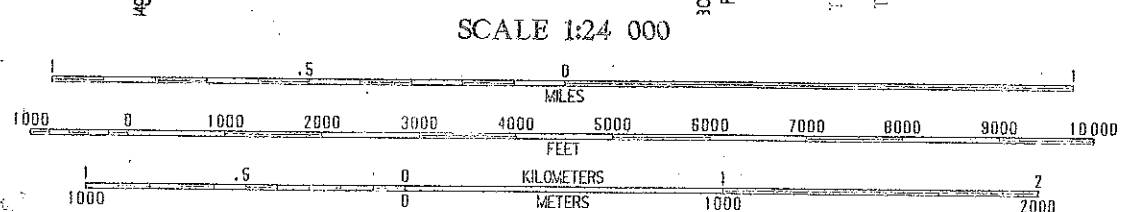
EXHIBIT ES-1

THE GEYSERS QUADRANGLE
NEVADA

02/31/3012 75 MINUTE SERIES (TOPOGRAPHIC)



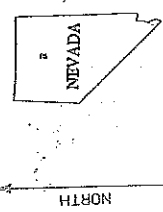
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OTHER ELEVATIONS SHOWN TO THE NEAREST FOOT
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To convert meters to feet multiply by 3.2808

James K. Planck
Technical Director
IMF World Missions
3068 2nd St.
Norco, CA 92860
(951)603-3466

International Fellowship of Churches, Inc.
dba IMF World Missions

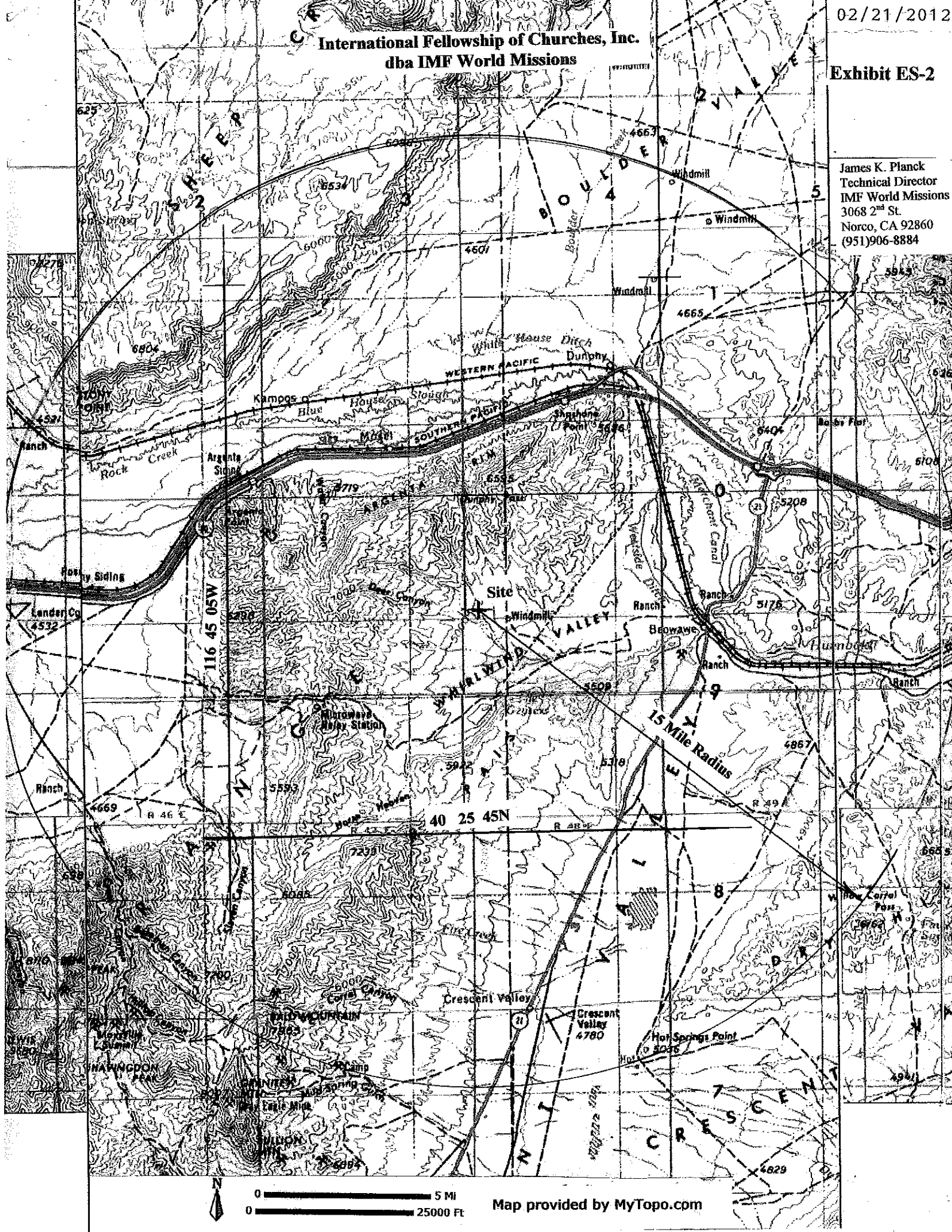


QUADRANGLE LOCATION

International Fellowship of Churches, Inc.
dba IMF World Missions

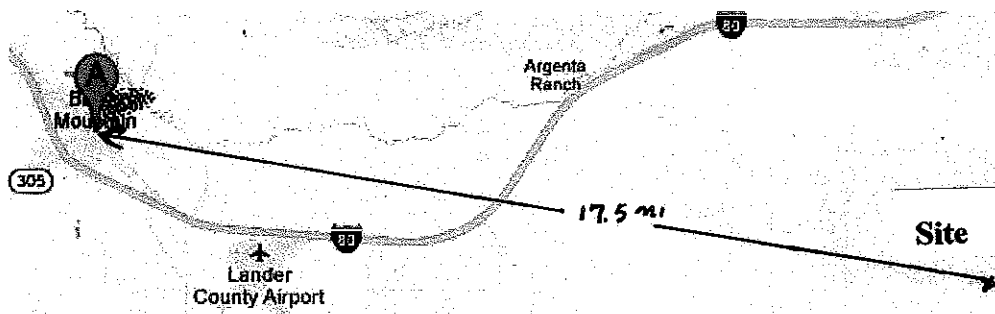
Exhibit ES-2

James K. Planck
Technical Director
IMF World Missions
3068 2nd St.
Norco, CA 92860
(951)906-8884



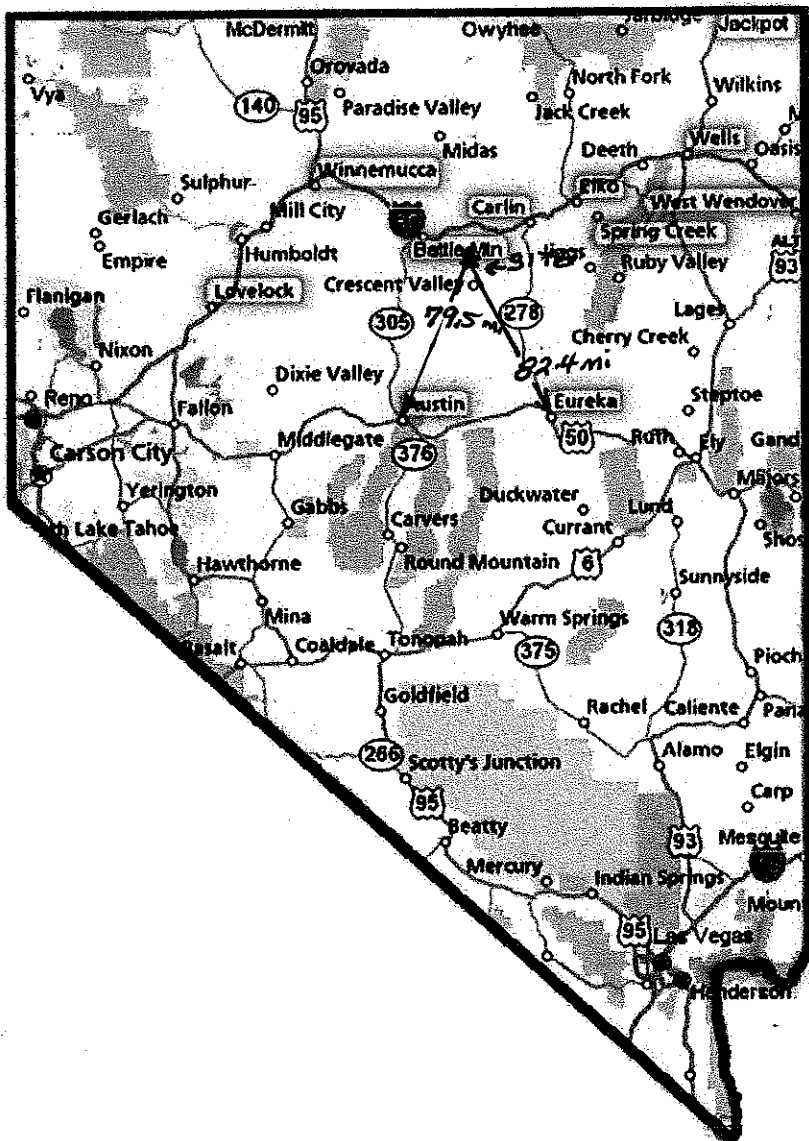
02/21/2012

EXHIBIT ES-3



James A. Franck
 Technical Director
 IMF World Missions
 3068 2nd Street
 Norco, CA 92860
 (951)603-3466

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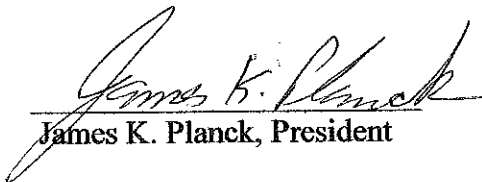


HARRIS MW-50 50 KW AM TRANSMITTER
MODIFIED FOR SHORTWAVE BROADCASTING

The Harris MW-50 Transmitter will be modified by Planck Technical Services at our Transmitter Custom Build and Retrofit Shop. Planck Technical Services has all necessary equipment to perform and test HF transmitters for output performance and compliance with all FCC standards that apply to shortwave broadcast transmitters. This Particular model of transmitter is already being used on the shortwave bands by others. This transmitter will operate on the 49m to the 19m bands.

The transmitter utilizes high level Pulse-Duration Modulation using 4CX-35,000 tubes in both the RF final & modulator stages. Additional harmonic filtering will be added to insure the RF output complies with FCC requirements for shortwave broadcasting. Tuning is performed manually with circuitry added to allow for quick switching for two(2) preset frequencies. Audio bandwidth limiting circuits will also be added as necessary to insure that the highest modulating frequency will not exceed 4.5 KHz per 73.766.

I, James K. Planck, certify that the modifications made to the Harris MW-50 Transmitter for International Fellowship of Churches, Inc. shall meet all parts of Part 73 FCC rules which apply to International Broadcast Stations.


James K. Planck, President

02/21/2012
Date

Planck Technical Services, Inc.
Technology Development-Electronics
HF Radio Systems

www.plancktechnicalservices.com

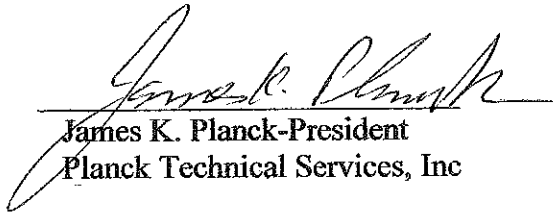
951-603-3466
Email: James.Planck@

9102 Reserve Dr.
Corona, CA 92883
USA

Exhibit ES-4B Pg 1

Federal Communications Commission
Washington, DC

I, James hereby certify that the transmitting equipment that is to be built for International Fellowship of Churches, Inc. proposed International Broadcast Station near Battle Mountain, NV shall meet all parts of the FCC rules Part 73 that apply to International Broadcast Stations.


James K. Planck-President
Planck Technical Services, Inc

02/21/2012
Date

Planck Technical Services, Inc.
Technology Development-Electronics
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yahoo.com

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USA

International Fellowship of Churches, Inc.
dba IMF World Missions

Exhibit ES-4C Pg. 1

PTS HF 100KW TRANSMITTER

Basic Specifications

General Description

The PTS HF 100KW is designed as a SSB Reduced Carrier (-6b) meeting the FCC Rules and Regulations Part 73.757 Para 1-8 for single-sideband (SSB) modulated emissions in the HF broadcasting service. The design has 2-4CX-35000A power tetrodes in the final output and operating Class AB1. The unmodulated carrier output will thus be 25KW. USB modulation will be utilized and according to 73.757 Para. 2 the SSB power will be 3 db greater than the total sideband power of the DSB emission. (The peak envelope power to be measured as the equivalent SSB emission and the carrier power as that of a DSB emission). The RF frequency and power driver for the final stages is envisioned to be a "Broadcast Techniques Model 1 Multimode AM exciter configured to operate in SSBSC mode with a synthesized internal frequency source set to the various working frequencies. This will drive a solid-state Class A amplifier system capable of delivering up to 500watts of output into the final (2) 4CX-35,000 tube stage.

Mechanical Description

The entire transmitter (except for the HV Power Supply) is to be housed in 4 steel cabinets. The first cabinet contains the RF exciter/driver stages, along with the system controls. All low voltage power supplies and some metering is also included in this cabinet.

The second and third cabinets will house the (2) 4CX-35000 Tubes and their cooling fans and exhaust systems. Metering for screen, plate and cathode currents will also be in these cabinets. The fourth cabinet houses the output tuning and output filter stages along with output FWD\REV Power metering in Watts. Full parameter metering is provided on all cabinets and stages to quickly determine transmitter performance and status.

Electrical Description

The RF circuitry begins with the RF synthesized SSBSC exciter and the Class A RF drive stage providing about 500W to the input of the Tube Linear Output Stage. Provisions is made in the Exciter/Driver, RF Output and filter circuits for quick changing

Planck Technical Services, Inc.
Technology Development-Electronics
HF Radio Systems

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USA

International Fellowship of Churches, Inc.
dba IMF World Missions

PTS HF-100KW Transmitter
Basic Specifications

Exhibit ES-4C Pg.2

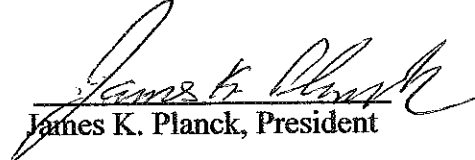
of at least 2 preset frequencies in the overall range, through relay control. Proper Harmonic filtering keeps spurious emissions (2nd harmonic and above) 80 db below fundamental frequencies. The output is 50 ohms unbalanced with a 3-1/8" EIA flange. 10V max frequency and modulation monitor connections are also provided through BNC connectors. The output frequency range of the transmitter is 3-22 Mhz.

The synthesized SSBSC Exciter has bal. 600 ohm audio inputs and control/metering to adjust proper input levels and control the amount of carrier output suppression.

Transmitter control is provided by front panel switches, Reliable relay logic is used throughout the transmitter making it more site friendly and easy to service.

All power supplies are solid-state and the HV Power supply is housed separately in a screened HV enclosure with a door which has safety interlocks to prevent energizing the H.V. while the door is open. Opening this door causes the HV to immediately de-energize. All wiring is in EMT conduit with wires using appropriate voltage ratings. All HV circuits automatically discharge residual energy when circuits are de-energized.

The PTS HF 100KW Transmitter is designed to meet all FCC standards that apply to International Broadcast Stations.


James K. Planck, President

02/21/2012
Date

Planck Technical Services, Inc.
Technology Development-Electronics
HF Radio Systems

www.plancktechnicalservices.com

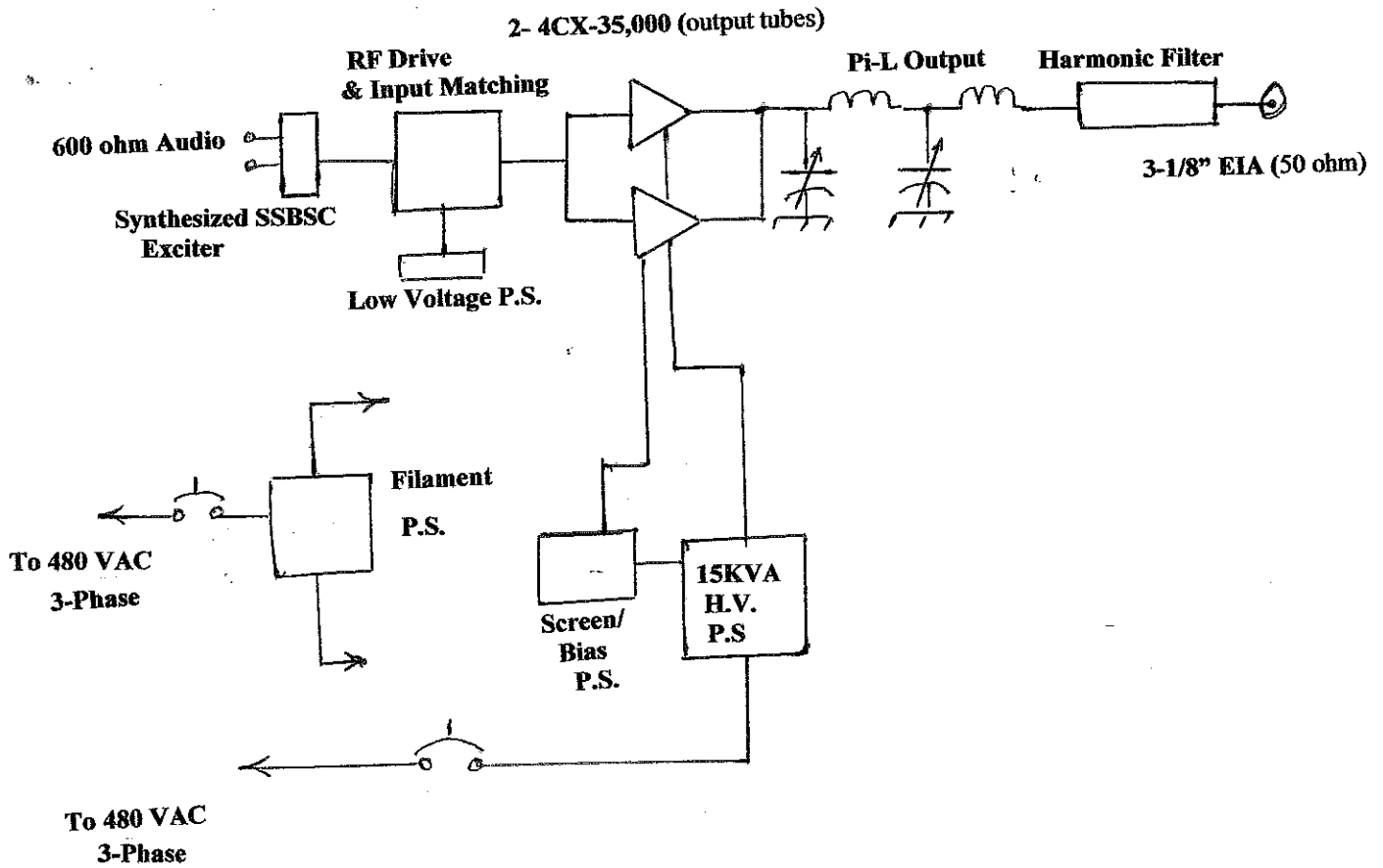
951-603-3466
Email: James.Planck@
vhsa.com

9102 Reserve Dr.
Corona, CA 92883
USA

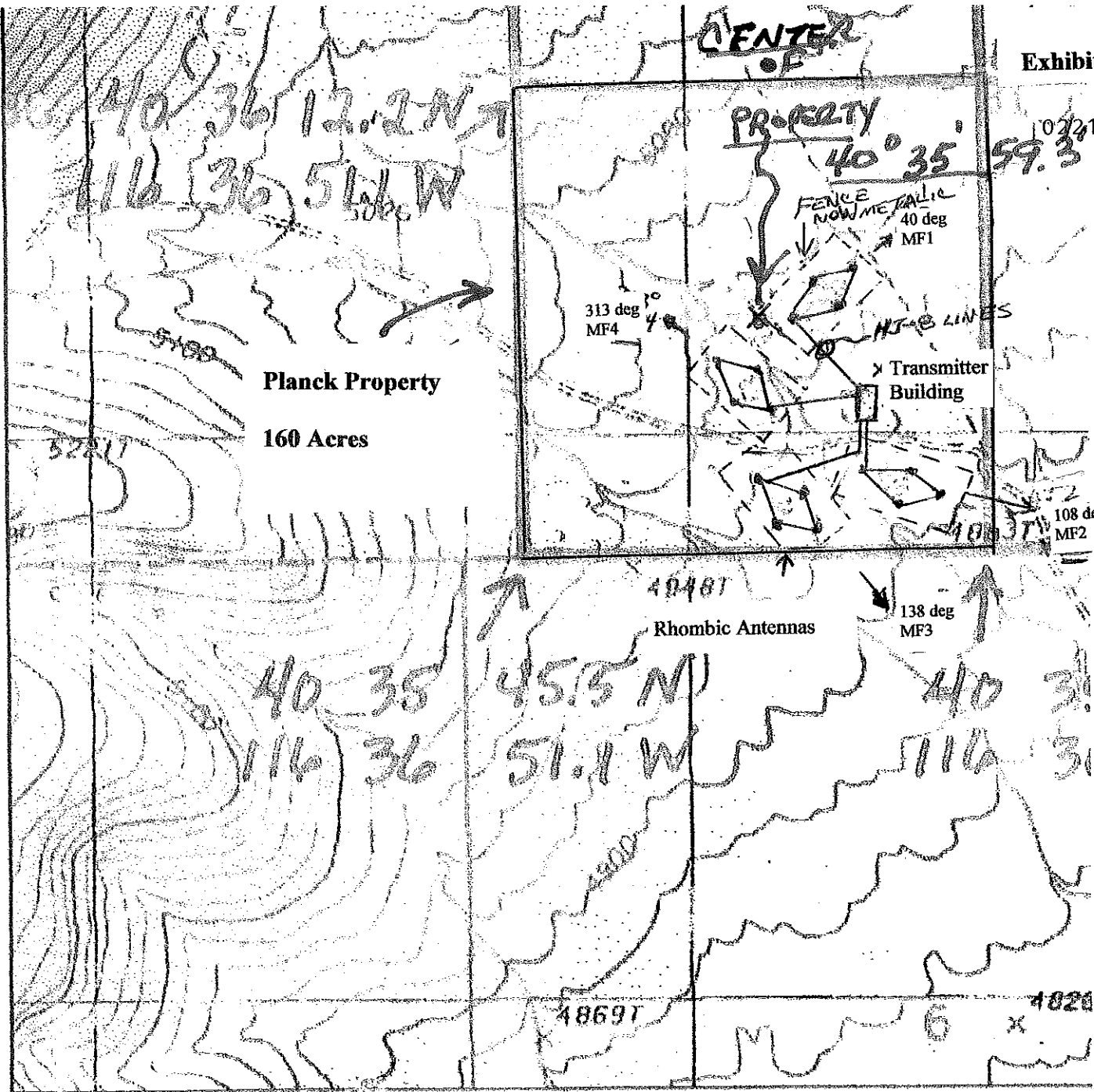
Exhibit ES-4D

PTS HF 100KW

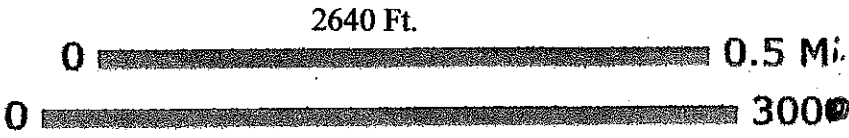
Functional Diagram



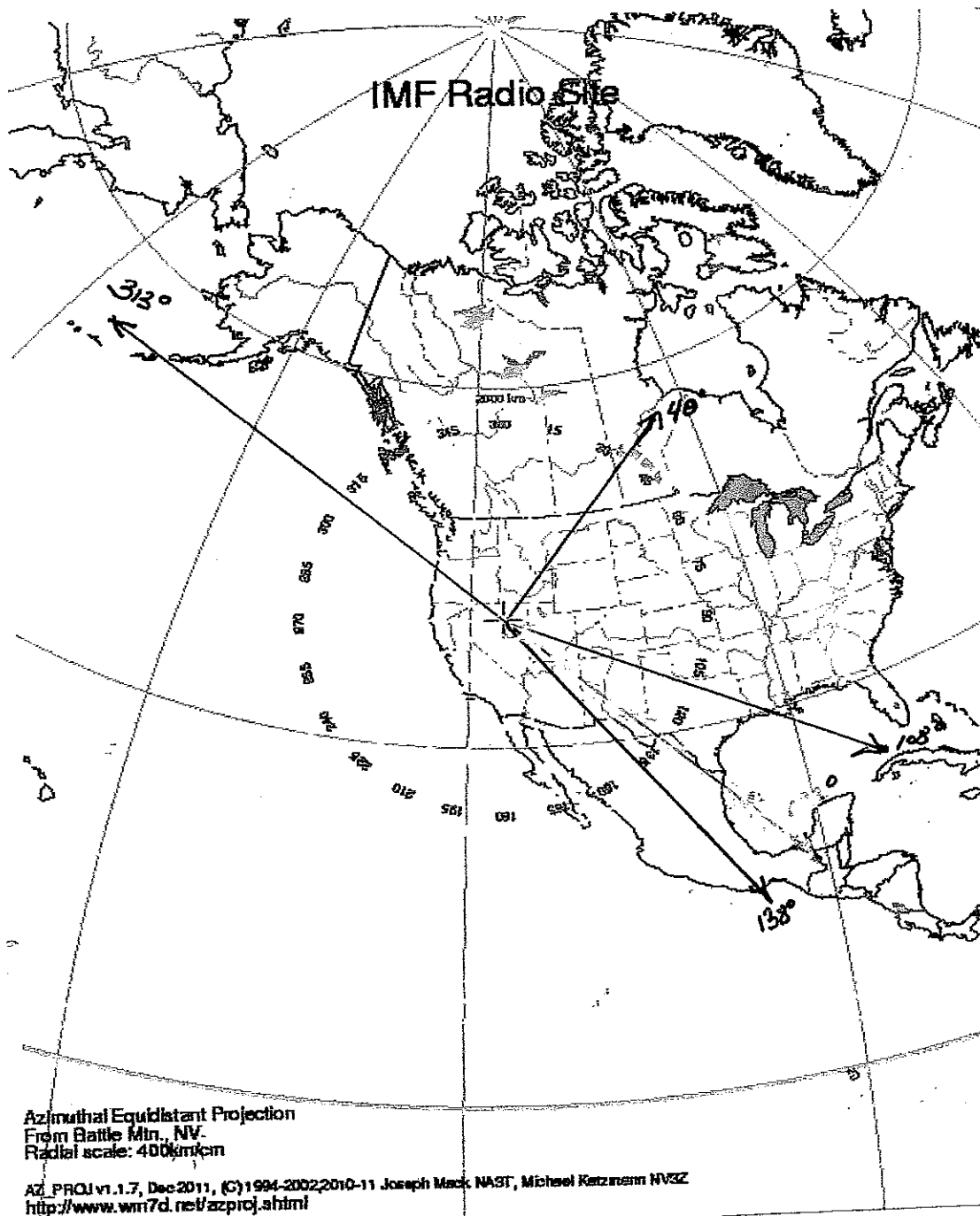
07/21/2012



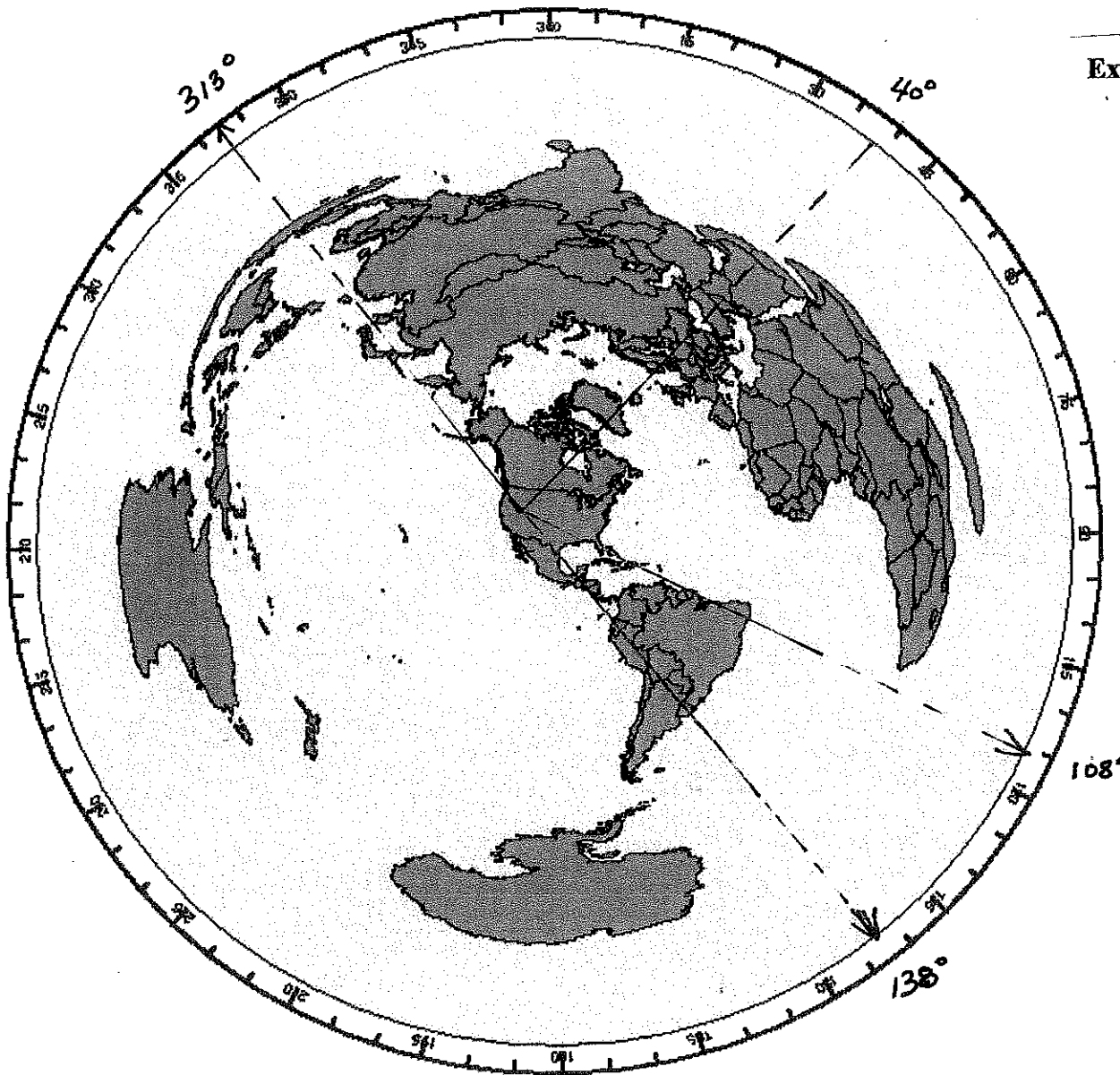
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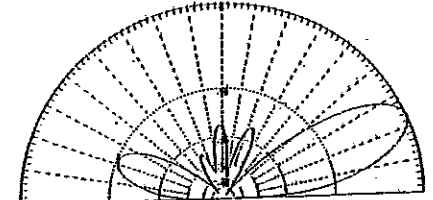
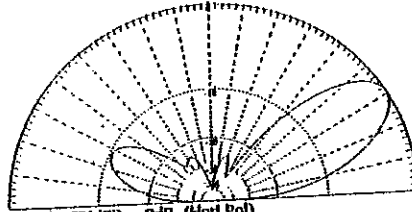
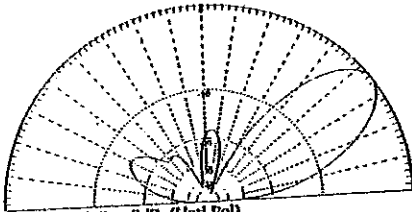
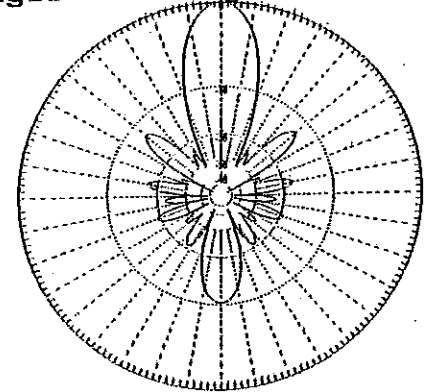
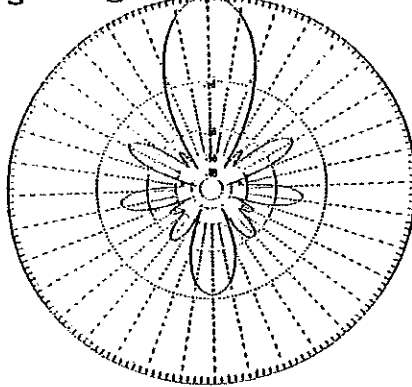
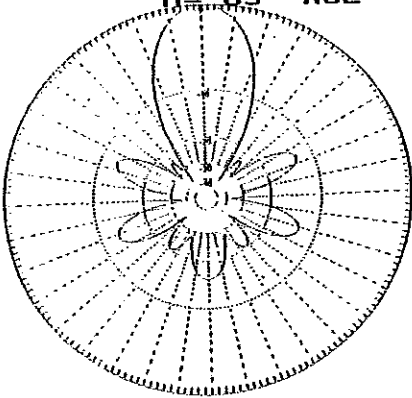
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Rhombic Antenna Radiation Patterns

H = 69' AGL

Leg Length = 250'

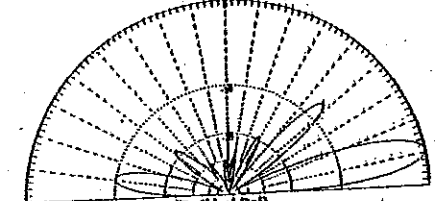
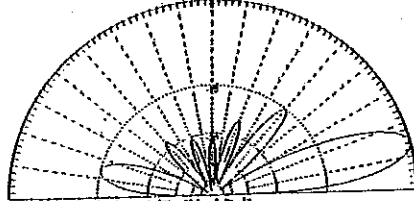
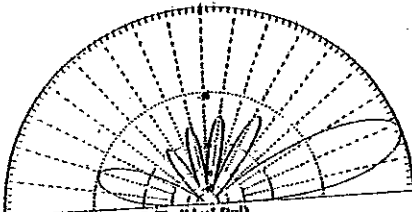
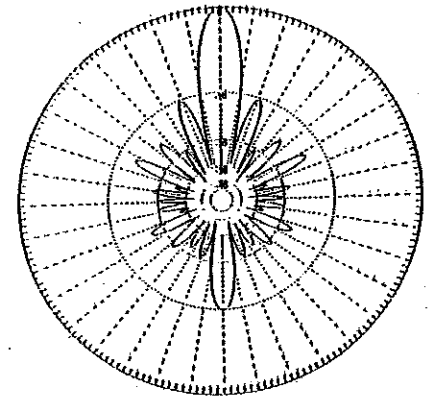
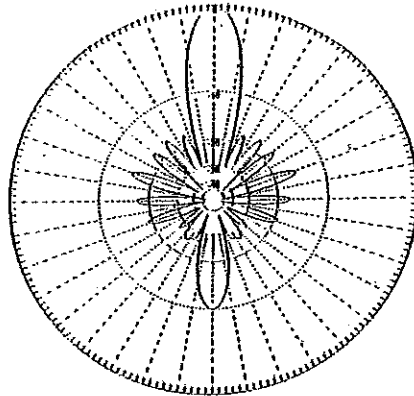
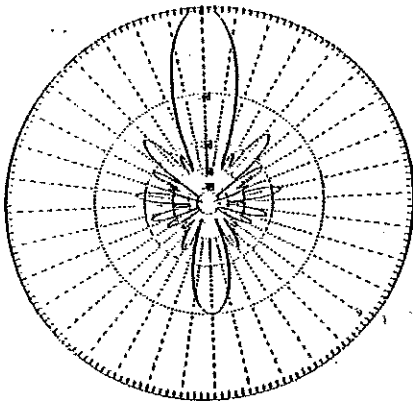
Tilt Angle = 70 Degrees



Ga : 10.00(dB) = 0dB (Hori Pol)
 F/B : 14.71(dB) Rear:Az.120 dg El.60dg
 Freq:6.000(MHz)
 Z : 558.572-j252.225
 SWR :13.46 (50.0) 1.55(6000m)
 Elev:35.1dg(Ideal GND :21.0312mft)

Ga :10.79(dB) = 0dB (Hori Pol)
 F/B :16.35(dB) Rear:Az.120 dg El.60dg
 Freq:7.000(MHz)
 Z : 605.555-j213.209
 SWR :13.62 (50.0) 1.42(6000m)
 Elev:30.6dg(Ideal GND :21.0312mft)

Ga :13.01(dB) = 0dB (Hori Pol)
 F/B :10.20(dB) Rear:Az.120 dg El.60dg
 Freq:9.000(MHz)
 Z : 609.488-j127.656
 SWR :14.26 (50.0) 1.27(6000m)
 Elev:23.5dg(Ideal GND :21.0312mft)



Ga :14.77(dB) = 0dB (Hori Pol)
 F/B :10.02(dB) Rear:Az.120 dg El.60dg
 Freq:11.000(MHz)
 Z : 1041.89-j189.289
 SWR :21.53 (50.0) 1.82(6000m)
 Elev:18.1dg(Ideal GND :21.0312mft)

Ga :15.75(dB) = 0dB (Hori Pol)
 F/B :10.03(dB) Rear:Az.120 dg El.60dg
 Freq:13.000(MHz)
 Z : 756.321-j860.836
 SWR :34.76 (50.0) 3.39(6000m)
 Elev:14.0dg(Ideal GND :21.0312mft)

Ga :14.93(dB) = 0dB (Hori Pol)
 F/B :9.85(dB) Rear:Az.120 dg El.60dg
 Freq:15.000(MHz)
 Z : 361.897-j407.287
 SWR :16.48 (50.0) 2.65(6000m)
 Elev:10.9dg(Ideal GND :21.0312mft)

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Radiation Characteristics 3-Wire Rhombic Antenna

Leg Length: 250 Feet Height: 69 Feet Tilt Angle: 70 Degrees

<u>Freq. Band MHz</u>	<u>Horizontal Beamwidth Degrees*</u>	<u>Gain dBi</u>	<u>Elevation Angle Degrees</u>	<u>Vertical Beamwidth Degrees*</u>
5/6	40	10	35	32
7	38	11	31	30
9/10	35	13	23	25
11/12	28	15	17	22
13	25	16	14	18
15	20	15	11	16
17/18	18	18	10	15
22	11	18.5	9	11

* At -6 dB points

Prepared from data provided by
 Planck Technical Services, Inc.

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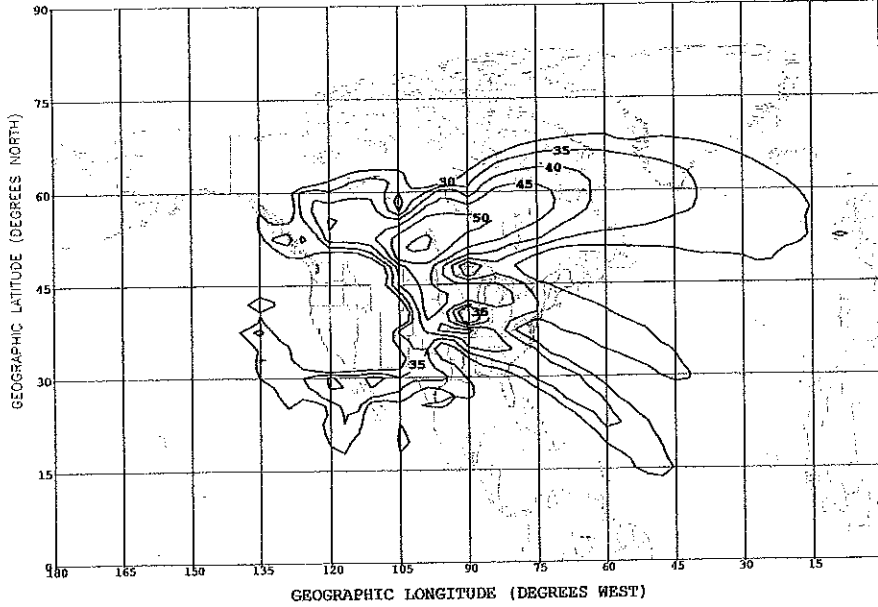
Version 08.0121W

VOACAP

Field Strength
Median
[dBu]

Min= -49.70
Max= 56.50

CCIR coefficients
37x 37 gridsize



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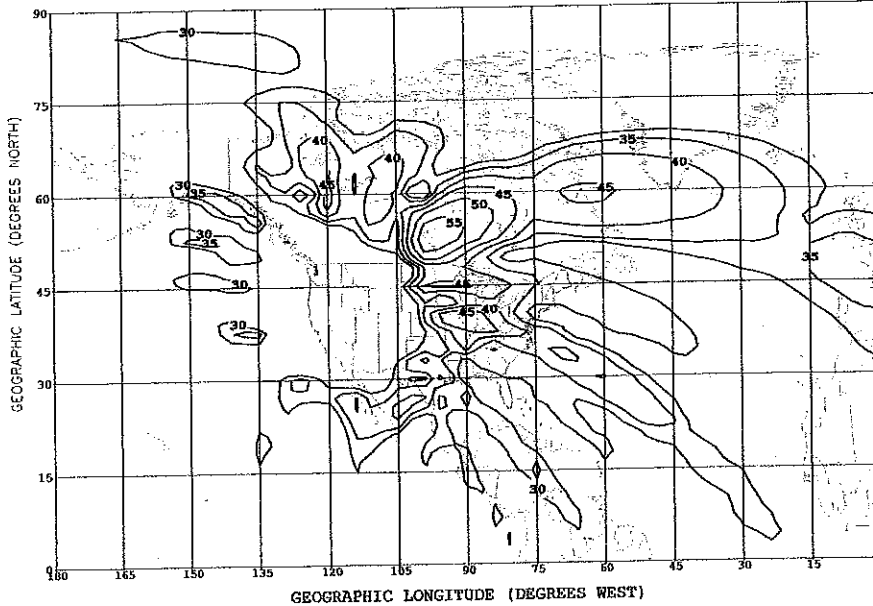
Version 08.0121W

VOACAP

Field Strength
Median
[dBu]

Min= -42.30
Max= 59.60

CCIR coefficients
37x 37 gridsize



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areadata\DEFAULT\TEMP.V21

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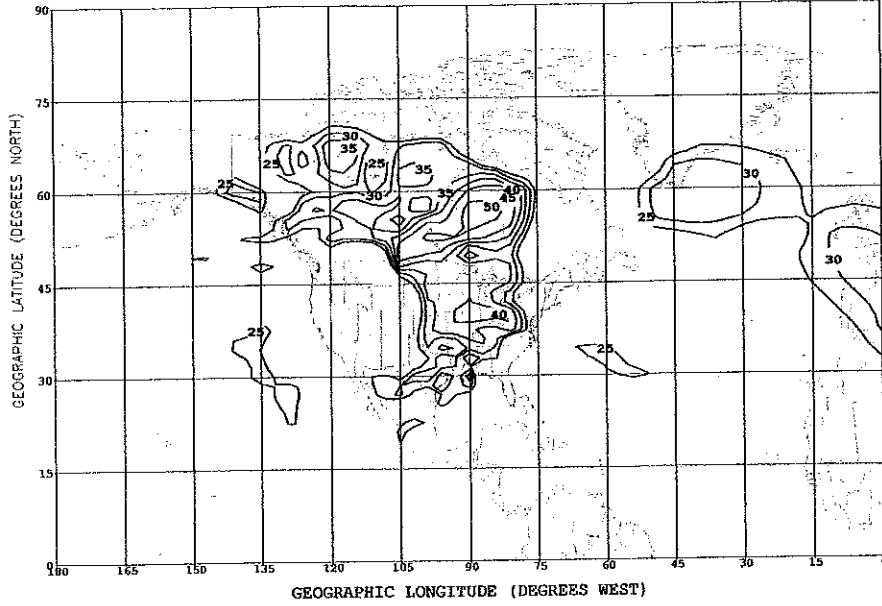
Version 08.0121W

VOACAP

Field Strength
Median
[dBu]

Min= -48.30
Max= 53.00

CCIR coefficients
37x 37 gridsize



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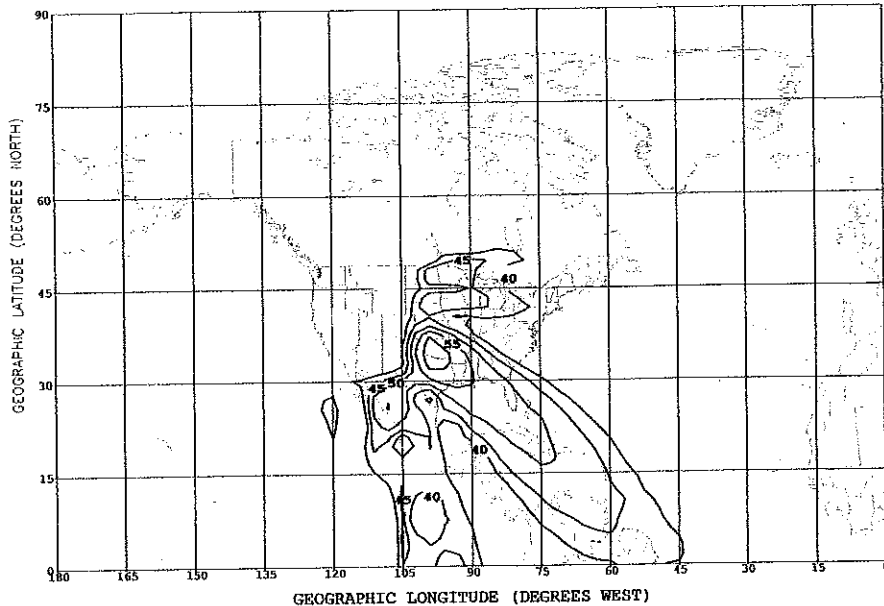
Version 08.0121W

VOACAP

Field Strength
Median
[dBu]

Min= -22.10
Max= 65.60

CCIR coefficients
37x 37 gridsize



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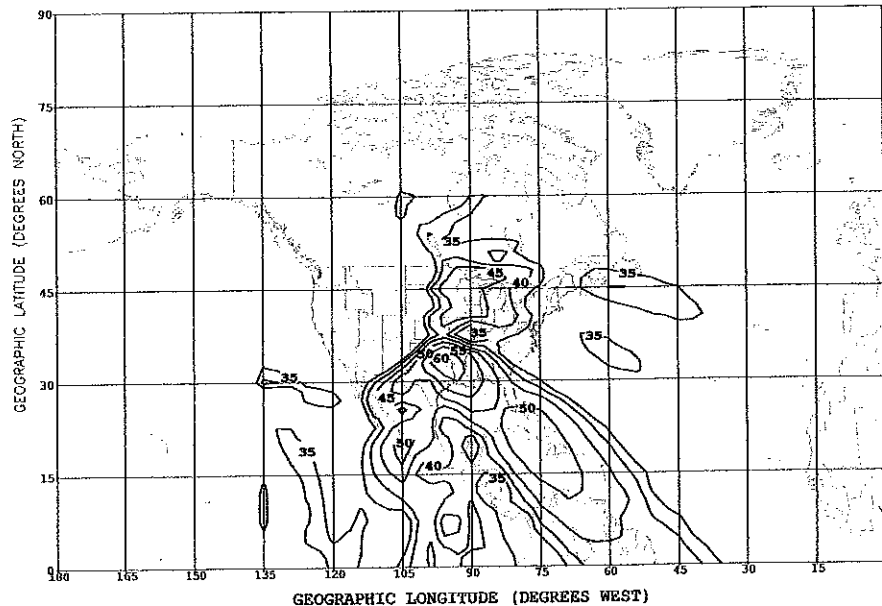
Version 08.0121W

VOACAP

Field Strength
Median
[dBu]

Min= -37.20
Max= 64.20

CCIR coefficients
37x 37 gridsize



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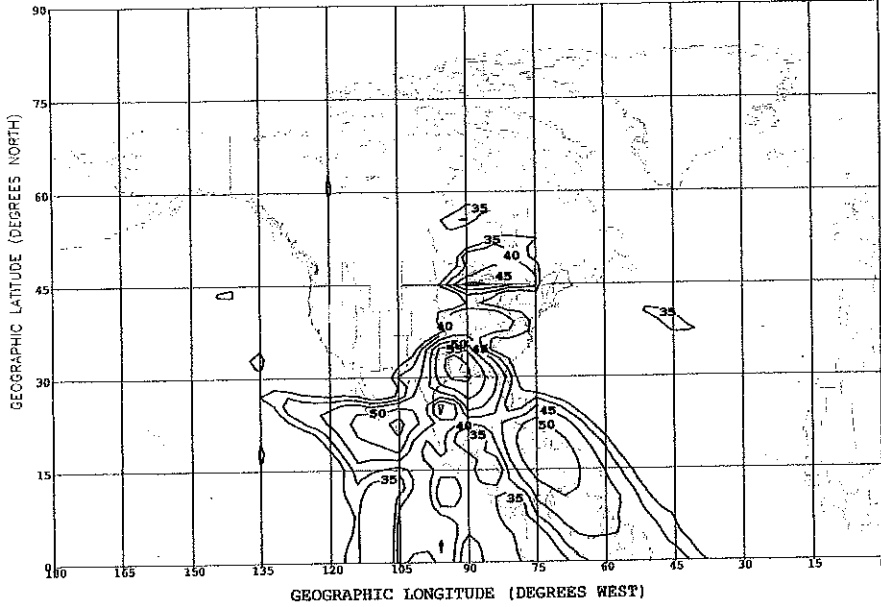
Version 08.01218

VOACAP

Field Strength
Median
[dBu]

Min= -52.20
Max= 64.20

CCIR coefficients
37x 37 gridsize



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areadata\DEFAULT\TEMP.V22

Version 08.0121W

VOACAP

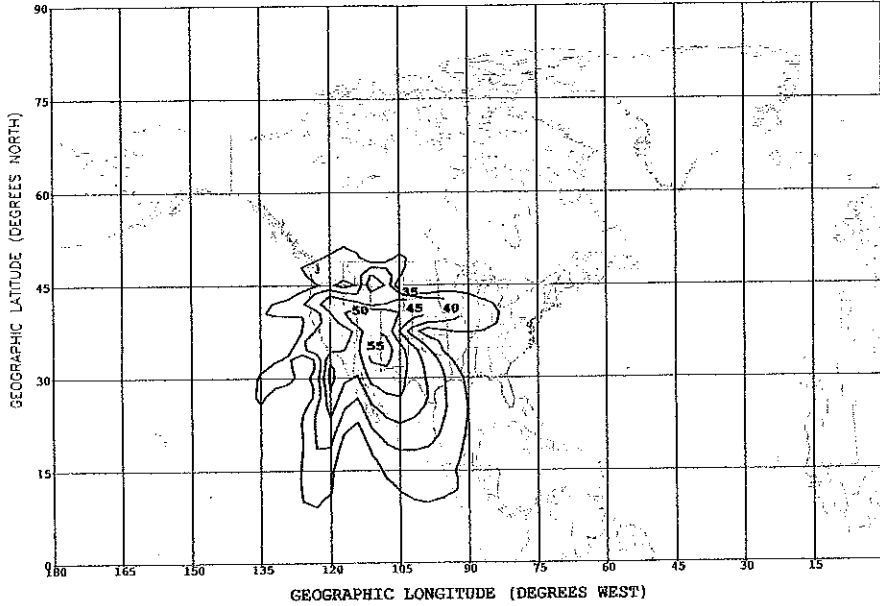
Field Strength
Median
[dBu]

Min= -45.20
Max= 61.70

CCIR coefficients
37x 37 gridsize

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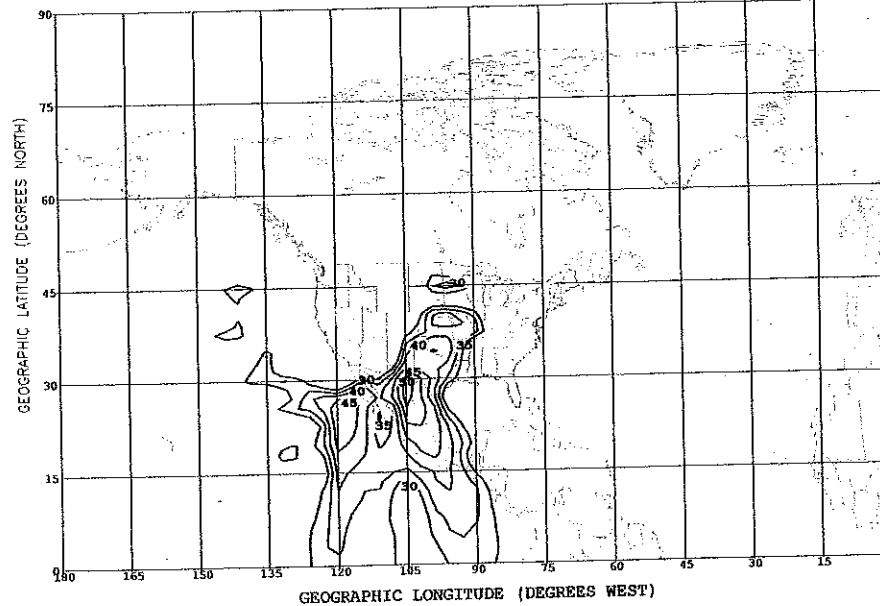
Version 08.0121W

VOACAP

Field Strength
Median
[dBu]

Min= -144.30
Max= 58.10

CCIR coefficients
37x 37 gridsize



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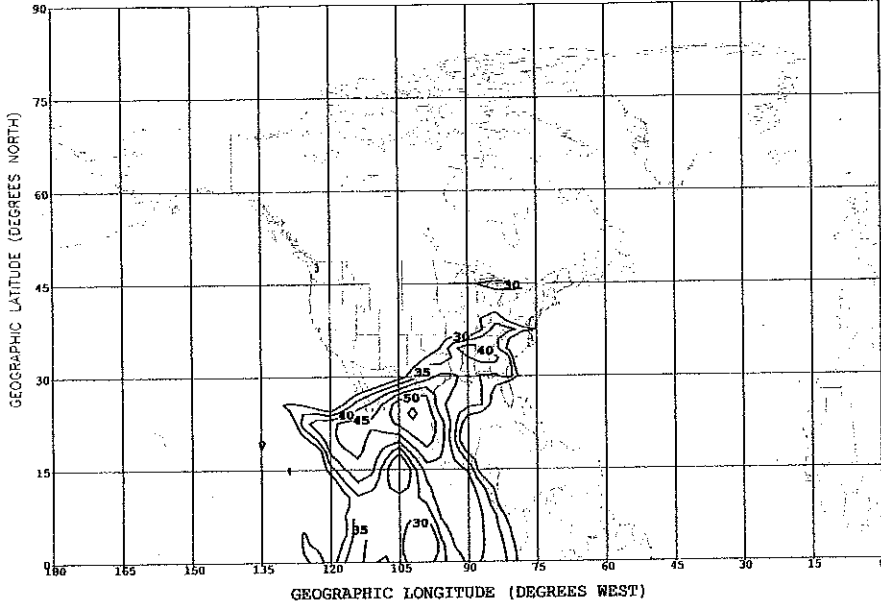
Version 08.0121W

VOACAP

Field Strength
Median
(dBu)

Min= -76.00
Max= 56.90

CCIR coefficients
3Tx 37 gridsize



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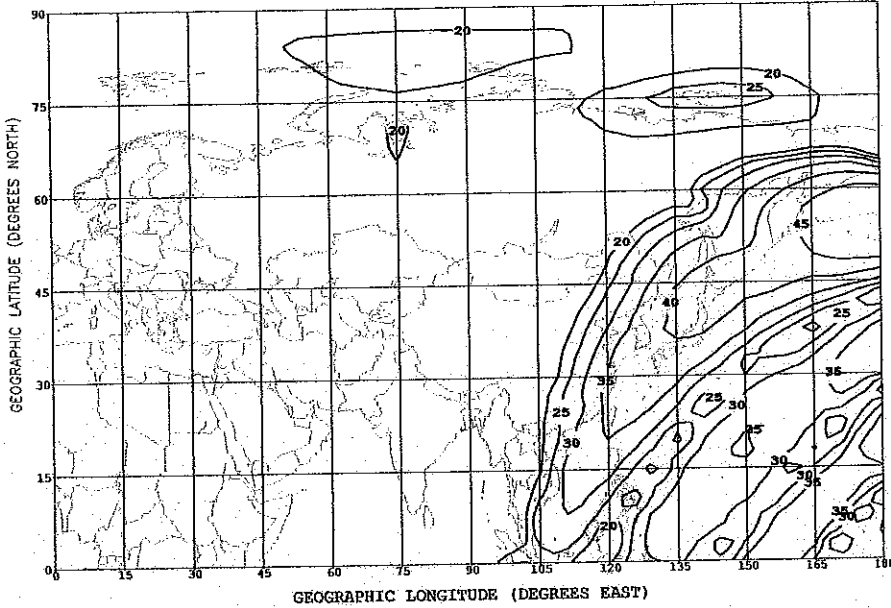
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Version 08.0121W



VOACAP
 Field Strength
 Median
 [dBu]
 Min= -89.70
 Max= 50.10

CCIR coefficients
37x 37 gridsize

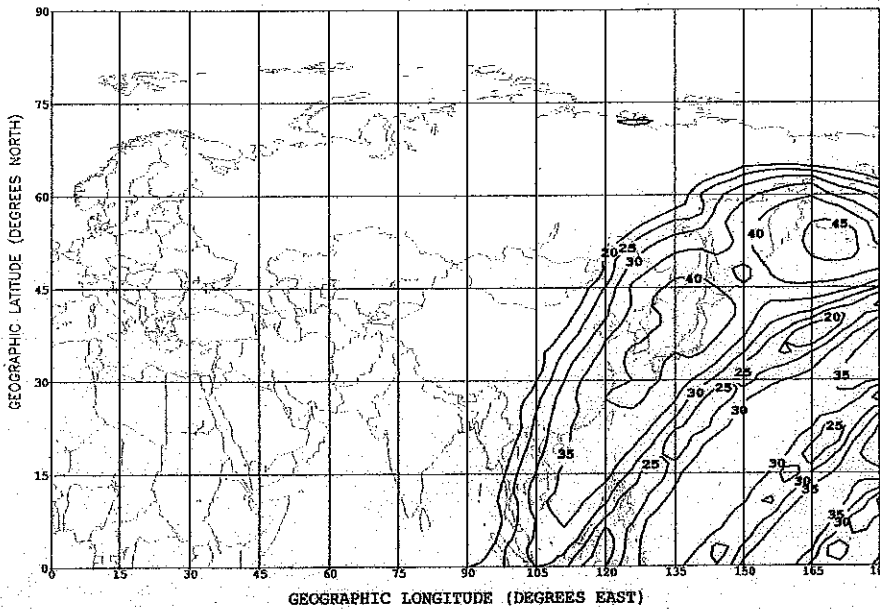
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Version 08.0121W



VOACAP
 Field Strength
 Median
 [dBu]
 Min= -88.70
 Max= 46.30

CCIR coefficients
37x 37 gridsize

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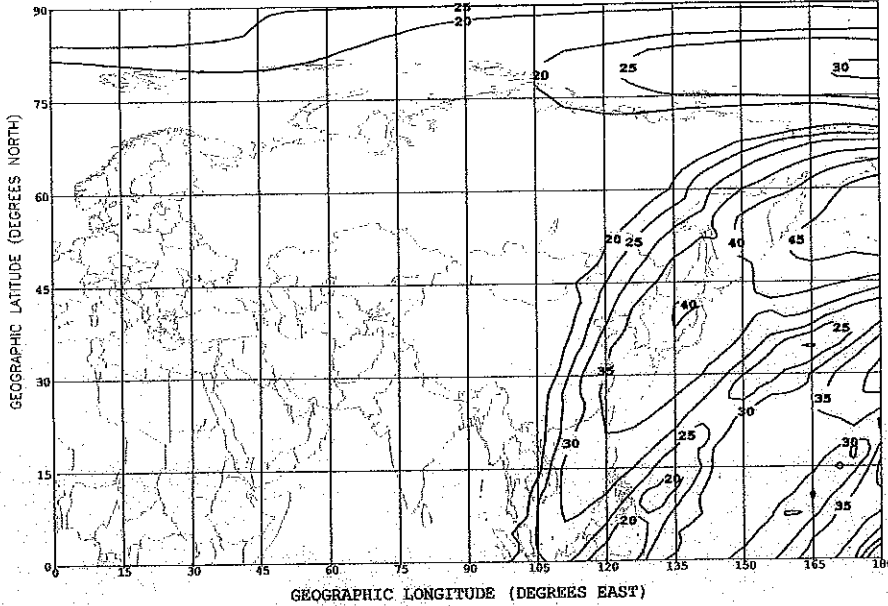
Version 08.0121W

VOACAP

Field Strength
Median
[dBu]

Min= -92.60
Max= 49.20

CCIR coefficients
37x 37 gridsize



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Exhibit ES-11A

02/21/2012

**International Fellowship of Churches, Inc.
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Transmitter Location: Near Battle Mountain, NV
 Antennas: 3-Wire Rhombic L=250' H=69' TA=70 deg

Antenna Bearing: 40 Degrees

Time Periods Shown as Local
 PST

Transmitter Power: 100KW

	<u>Morning</u>	<u>Afternoon</u>	<u>Evening</u>
<u>Canada</u>			
Yellowknife	N/A	V	F/G
Rankin Inlet		V	F/G
Churchhill	"	V	G/E
Regina		F/G	G/E
Winnipeg		F/G	G/E
Ft. Serven	"	F/G	G/E
Ivujivik		V	F/G
Kuujuaq		V	F/G
Godthab, Greenland	"	V	F/G

Antenna Bearing: 108 Degrees

Transmitter Power 100KW

<u>Caribbean</u>			
Havana, Cuba	N/A	N/A	G/E
Santiago de Cuba			G/E
Port-au-Prince, Haiti	N/A	N/A	G/E
Santo Domingo, DR	"	"	G/E
St. Kucia	"	"	F/G
Jamacia	N/A	N/A	G/E
Central America	N/A	N/A	V
Colombia			F/G
Venezuela	N/A	N/A	F/G
Brazil	N/A	N/A	F/G

Signal Levels

Excellent (E) 54+ dbu, Good-to Excellent (G/E) 48-54 dbu, Fair-to-Good (F/G) 42-48
 Variable (V) Less than 42 dbu

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Exhibit ES-11B

**International Fellowship of Churches, Inc.
dba IMF World Missions**

02/21/2012

Transmitter Location: Near Battle Mountain, NV
Antennas; 3-Wire Rhombic L=250' H=69' TA=70 deg

Antenna Bearing 108 deg Time Shown as Local
PST

Transmitter Power 50KW

	<u>Morning</u>	<u>Afternoon</u>	<u>Evening</u>
<u>Mexico</u>			
Ensenada	V	N/A	F/G
Santa Rosalia	V	N/A	F/G
Hermosillo	V	N/A	G/E
Mazatlan	F/G	N/A	F/G
Durango	G/E	N/A	F/G
Mexico City	V	..	V
Oaxaca	V	N/A	V

Antenna Bearing 313 deg Time 9-15 UTC Shown as
Morning Local PST

Transmitter Power 100 KW

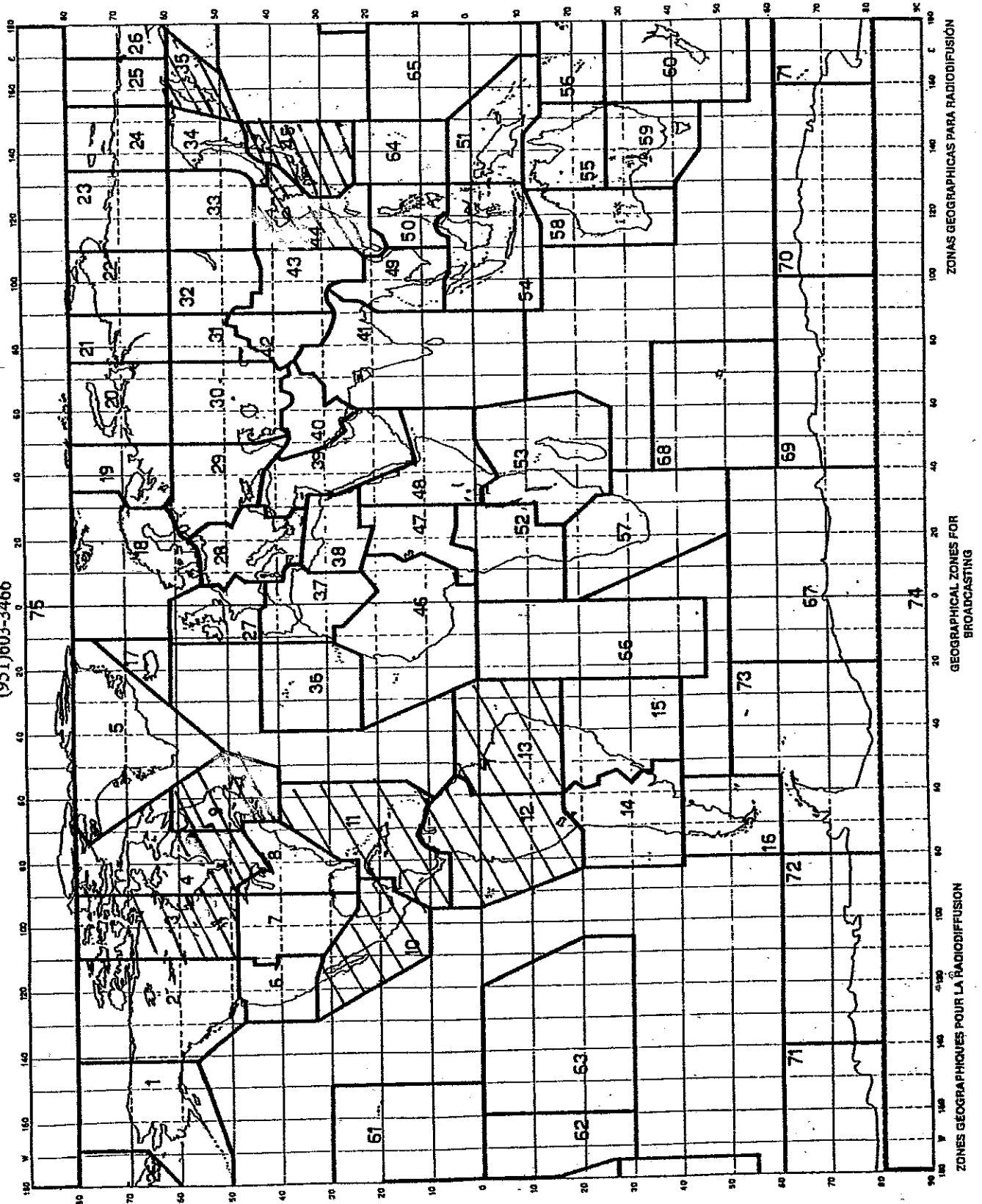
<u>Asia W. Russia</u>			
Petrovlovsk Kam	F/G	N/A	N/A
Vladivostok, Russia	F/G	N/A	N/A
Magadan, Russia	F/G	N/A	N/A
Sapporo, Japan	F/G	N/A	N/A
Tokyo, Japan	F/G	N/A	N/A
Pusan, S. Korea	F/G	N/A	N/A
Fuhun, China	V	N/A	N/A
Taiwan	V	N/A	N/A

Signal Levels

Excellent (E) 54+ dbu
Good-to-Excellent (G/E) 48-54 dbu
Fair-to-Good (F/G) 42-48
Variable (V) Less then 42 db

International Fellowship of Churches, Inc. 02/21/2012
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Exhibit ES-13

02/21/2012

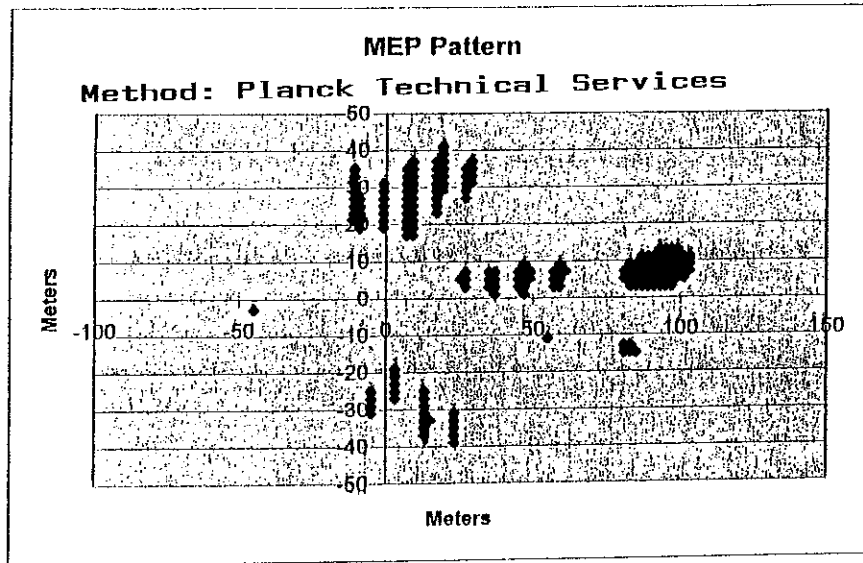
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RF MAXIMUM EXPOSURE CONTOURS (MEP)

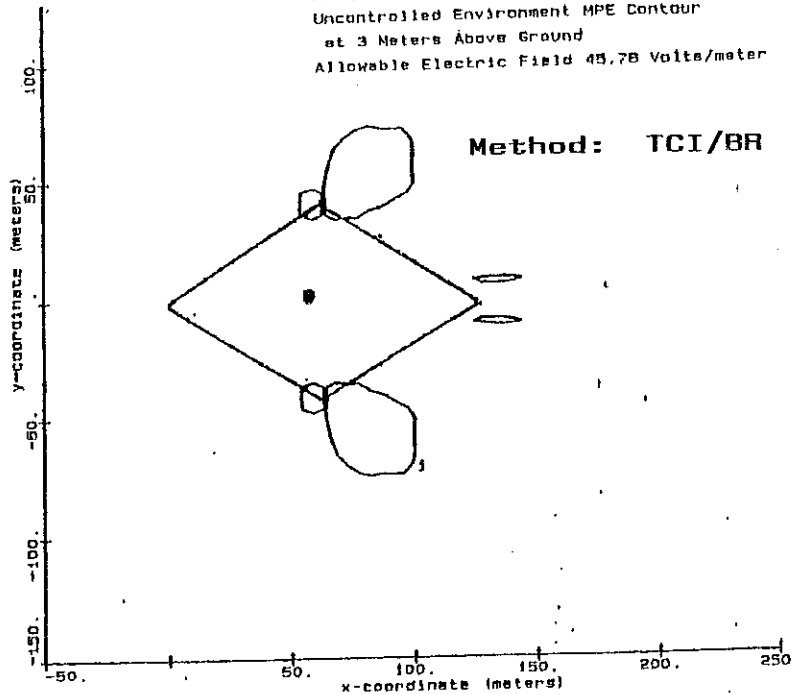
Rhombic Antenna 50 kW 18 MHz

Controlled MEP: Does Not Exist
Uncontrolled MEP: 105 Meters (344 Feet)
From Center of Antenna.

Rhombic MEP pattern 2 meters above ground at 18Mhz.
(0,0) is at the center of the antenna.



Rhombic Antenna
Freq = 18.0 MHz. Power = 50 kW.
Uncontrolled Environment MPE Contour
at 3 Meters Above Ground
Allowable Electric Field 45.78 Volts/meter



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