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**Before the
FEDERAL COMMUNICATIONS COMMISSION
Washington, DC**

In the matter of:)	
)	
Establishment of a Low Power Radio	)	MM Docket 99-25
Radio Service	)	RM-9208
	)	RM-9242
May 10, 1999)	

REVISED COMMENTS OF REC NETWORKS

I. OVERVIEW

1. *Withdrawal of previous comments.* In this filing, we are requesting that the Commission disregard the comments and amendments that were filed by REC Networks ("REC") and to accept these comments instead. REC Networks apologizes for any inconvenience caused to the Commission and other interested parties.¹

1 – Comments were filed electronically by REC Networks dated February 6, 1999. On February 10, 1999, REC amended its comments. On March 25, 1999, REC Networks has filed a second amendment to its original comments. This current filing is intended to replace those three filings; REC has changed opinions on some matters since those filings. The Commission as well as readers of the comments is asked to disregard the previous filings by REC Networks and to only regard the comments in this filing as the comments of REC Networks.

2. *Summary of the differences between the previous comments and these revised comments.* We have had a chance to do some additional technical studies as well as consult with others in the low power radio field and have determined that some of the statements that we made in our previous filings were defective. Some of the changes between the previous document and this current document are:

- Addition of a "second-50" media market classification.
- Request to the Commission to use letter class names instead of the "LP-" names in rules.
- Extended the prohibition of LP-1000 stations to the top-100 markets.
- Establish a new 250-watt primary LPFM service.
- Restored IF protection to stations operating over 101 watts in respect to full power stations and TV Channel 6.
- Clarifications on International Status.
- Established new 100-watt primary service for metro areas.
- Voluntary assignment of 87.5 for high schools.
- Community LPFM as a non-commercial service.
- Change ownership limit exemptions for schools from "K-12" to "high schools which teach the 12th grade".
- LPFM stations for churches and other weekend broadcasters.
- Establishment of an overflow Low Power AM Mircoradio Service.
- Our distance spacing guidelines are more in-line with what's been proposed by the FCC.
- Additional appendices have been added.

3. *The FCC has already shown a need for this service. As the Commission noted in Paragraph 11 of the NPRM, the agency has received over 13,000 inquiries in the past year from individuals and groups interested in starting a low power radio station.*

Some have even resorted to illegal means in an effort to get a radio station on the air.

4. *Bringing radio back to the local community. We feel that a Low Power FM (LPFM) service would introduce many new local voices to the airwaves. LPFM stations would also provide a good training ground for those interesting in advancing their careers in broadcasting just like how the amateur radio service has trained many people in radio electronics over the years.*

5. *Classifications of LPFM stations. We are asking that the Commission rename the station class-names from the current "LP-1000", "LP-100" and "Microradio" to the following new names:*

A1	Primary Service - Maximum 1kW - 60m HAAT. (Replaces LP-1000)
A2	Primary Service - Maximum 0.25kW - 60m HAAT.
A3	Primary Service - Maximum 0.1kW - 30m HAAT.
D1	Secondary Service – Maximum 0.1kW - 30m HAAT. (Replaces LP-100)
D2	Secondary Service – Maximum 0.01kW at 10m HAAT or 0.001kW at 30m HAAT. (Replaces "Microradio")

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We feel that these class names would be more compatible with the engineering databases the Commission currently uses. This also allows for the designation of a power rating with different limitations (such as our proposed A3 primary and D1 secondary classes).

II. CLASS "A1" - 1000 WATT STATIONS

6. *Overview.* Class A1 stations are similar to the FCC proposed LP-1000 stations. We see that this service will provide rural communities with their first local channel as well as provide a diverse channel of communications for smaller communities. A1 stations will work very well in areas that can not receive Class-A facilities as a result of distance spacing. Class-A1 stations would be subject to most rules that apply to full power radio stations. Stations may operate between 300 and 1000 watts ERP with a maximum antenna height of 60 meters (no minimum specified).

7. *Availability.* In our proposal we are asking that A1 (or LP-1000) stations not be made available within 100km of the Top-50 media markets or within 100km of the Second-50 media markets as defined in Section XI. Channels 201 through 300 would be available to Class A1 stations.

8. *Primary Status.* Class A1 stations would be considered primary. This means they will equally protect primary LPFM and full power stations.

9. *Protection of other stations.* We propose that Class A1 stations would be required to protect the first adjacent channel of other LPFM stations as well as the second adjacent and IF channels of full power stations.

10. *Channel 6 IF protection.* We propose that all LPFM stations operating with an ERP of over 100 watts operating on Channel 253 (98.5) would be required to protect the IF of full power TV stations operating on Channel 6. For the 1000w (LP-1000) class stations, this means that no A1/LP-1000 station would be authorized on Channel 253 that is within 10km of a full power TV station. No IF protection is being proposed for LPTV stations.

11. *International notification.* Class A1 stations will be considered Class A in respect to both Canada and Mexico.

III. CLASS "A2" - 250 WATT STATIONS

12. *Overview.* Class A2 is a new class of station originally conceived by the Amherst Alliance. After doing a technical overview of the service, we have found that the 250-watt Class A2 station would be able to serve the small to medium market.

13. *Availability.* We are asking that Class A2 stations not be made available within 100km of the Top-50 Media Markets. Unlike the A1 (LP-1000), Class A2 would be available in the Second-50 Media Markets. Channels 201 through 300 would be available for Class A2 stations.

14. *Primary Status.* Class A2 stations would be considered primary. This means they will equally protect primary LPFM and full power stations.

15. *Protection of other stations.* We propose that Class A2 stations will be required to protect the first adjacent channel of other LPFM stations as well as the second adjacent and IF channels of full power stations.

16. *Channel 6 IF protection.* We propose that all LPFM stations operating with an ERP of 101 watts or more and operating on Channel 253 (98.5) would be required to protect the IF of full power TV stations operating on Channel 6. For a 250 watt Class A2 station, this means that no station Channel 253 would be allowed within 8km of a full power Channel 6. No IF protection is proposed for LPTV stations.

17. *International notification.* Class A2 stations will be considered Class A in respect to Canada and Class D in respect to Mexico.

IV. CLASS A3 - 100 WATT STATIONS

18. *Overview.* This is a new service being proposed by REC. The purpose of this service is to provide a primary LPFM service in areas where higher-powered 1000-watt LPFM services are not available.² We envision that the Class A3 will be the workhorse station in the metropolitan areas. Unlike the 250W and 1kW services, operators of the 100 watt services would be subject to relaxed rules that were proposed by the FCC for LP-100 stations.

² – REC has proposed that 1000-watt stations would not be permitted within the top-100 Media Markets and 250 watt stations would not be permitted within the top-50 Media Markets. Within the top-50 markets, we propose that the 100 watt service be primary as 250 watt stations are not available.

19. *Availability.* Class A3 stations will be available within 100km of the Top-50 Media Markets ONLY. 100-watt stations outside of this area would be considered secondary and classified D1.

20. *Primary Status.* Class A3 stations will be considered primary and must protect and be protected by full power and LPFM stations.

21. *Protection of other stations.* Primary Class-A3 stations will be required to protect the co-channel and first adjacent channels of all classes of full power and LPFM stations.

22. *International Notification.* Class A3 stations will be considered Class A1 in respect to Canada and Class D in respect to Mexico.

V. CLASS D1 - 100 WATT STATIONS (SECONDARY)

23. *Overview.* This service is similar to the LP-100 service proposed by the FCC. Class-D1 stations will provide users in rural areas and smaller communities with a lower power alternative to cover a smaller area.

24. *Availability.* Class D1 stations would be available to locations which are at least 100km from the Top-50 Media Markets ONLY. 100 watt applicants within the Top-50 Media Markets would be eligible for Class A3 (100 watt primary) stations.

25. *Secondary Status.* Class D1 stations are secondary and must protect but are not protected from full power stations. Class D1 stations are subject to displacement from full power stations. Class D1 is protected by all classes of LPFM service. See the section on translators for information on secondary stations is handled in respect to translators and boosters.

26. *Protection of other stations.* As mentioned, Class D1 stations are not protected from Full Power FM stations and must protect the co-channel and first adjacent channel of other full power and LPFM stations.

27. *International Notification.* Class D1 stations will be considered Class A1 in respect to Canada and Class D in respect to Mexico.

V. CLASS D2 - 10 WATT STATIONS

28. *Overview.* The 10-watt D2 service will serve many purposes, such as hobby broadcasting, neighborhood groups, high schools, event venues and churches.

29. *Availability.* Class D2 will be available in all areas with no restrictions on market size.

30. *Secondary Status.* Class D2 stations are secondary and must protect but are not protected from full power stations. Class D2 stations are subject to displacement from full power stations. Class D2 is protected by all classes of LPFM service. See the section on translators for information on secondary stations is handled in respect to translators and boosters.

31. *Protection of other stations.* As mentioned, Class D2 stations are not protected from Full Power FM stations and must protect the co-channel and first adjacent channel of other full power and LPFM stations.

32. *International Notification.* Class D2 stations will be considered Class A1 in respect to Canada and Class D in respect to Mexico.

VII. USE OF CHANNELS 198, 199 AND 200 (87.5, 87.7 AND 87.9)

33. *Purpose.* REC is asking that Channels 198, 199 and 200 (87.5 through 87.9) be made available to 10 watt (D2) stations on a secondary non-interference basis to full power and low power Channel 6 stations. In some areas, like Los Angeles, these may be the only channels where LPFM stations would be able to operate on.

34. *Protection of Channel 6.* For the purpose of determining protection and interference contours, we will consider a full power NTSC Channel 6 station as a Class C station on 87.7 (Channel 199). We are aware that the actual aural carrier frequency for Channel 6 is 87.75MHz. We will consider an LPTV station with facilities similar to a Class A FM station. When you work out these numbers, no 10 watt stations will be allowed on Channel 199 within 200km of a Channel 6 station (89km for LPTV) and no 10 watt stations allowed on Channel 198 or 200 allowed within 138km (46km for LPTV) of a Channel 6 station.

35. *Protection of Channel 201.* LPFM stations operating on Channel 200 are still subject to first adjacent channel restrictions in relation to Channel 201.

36. *Availability of radios to receive these channels.* As mentioned in the NPRM, the Commission is not considering the assignment of any new spectrum for LPFM because of the hardship it would impose on the consumer. We have checked out many of the major consumer electronics and auto sound manufacturers and have found that a majority of the FM receivers currently on the market in the US are capable of receiving Channels 199 and 200. Out of the receivers that can tune Channels 199 and 200, we have found that a majority of them can also tune Channel 198. We feel that the allotment of Channels 198 through 200 would not create a hardship on consumers and therefore would be in the public interest.

37. *Considerations for the DTV transition.* We do recognize that during the DTV transition, all of the channel 6 stations will be receiving digital allotments on other channels. For stations on other channels, only two of these stations are transitioning to Channel 6. These stations are in New Haven, CT and Juneau, AK. Based on what we have heard is that once DTV is implemented, some of the low-band VHF broadcasters (channels 2 through 6) will not move back to their old analog channels. Even though this is a good opportunity to extend the FM band down to 82 (or even 76) MHz, it is a good reason right now to promote the use of Channels 198 through 200 for LPFM. For the two DTV stations, even though REC Networks would like to see the Commission re-allot those two stations to other DTV channels, we must provide protection for those two stations. For this reason, REC will recommend that a blanket 300km protection be

placed around New Haven, CT and Juneau, AK. Within these two regions, no stations will be assigned on Channels 198, 199 and 200.

38. *Voluntary assignment of Channel 198 to high schools.* We are asking the Commission and LPFM applicants to encourage but not enforce the nationwide use of Channel 198 (where available) for use at high schools that teach the 12th grade. Later in these comments, we will recommend a unique timeshare agreement, which allows high school stations to operate on weekdays, and other stations operated by churches and hobbyists on the weekend.

VIII. STATUS OF TRANSLATORS

39. *“Local” translators.* For the purpose of these comments, a Local Translator is a translator or booster station where the primary station is located within 400km of the translator station at the time of release of the NPRM. REC feels that these incumbent local translators are entitled to protection from new primary and secondary LPFM stations.

40. *“Distant” translators.* These stations, which are usually non-commercial, have their translator located at least 400km away from their primary station. REC feels that these stations are not capable of providing a local service and should be placed in a lower spectrum priority than primary and secondary LPFM stations. In the case of secondary (D1/D2/LP-100/Micro) stations, these stations should request a frequency, which will permit the LPFM station and the distant translator to co-exist. If no channels are available, the LPFM station may exclude the presence of the Distant Translator when choosing a frequency. The Distant Translator will be responsible for resolving the interference.

41. *Translators constructed after the NPRM release.* We are requesting that all translators that came on the air after the NPRM was released to be subject to the same rules as Distant Translators. We are not discouraging the construction of new translators but in areas where translators are really needed, there is usually enough channel space to go around.

42. *Changes in primary station designation.* If a Distant Translator changes their primary station to a station within 400km, it will NOT change their status as a Distant Translator. If a Local Translator changes their primary station to a station more than 400km away, it WILL change their status to a Distant Translator.

43. *Exemption for Alaska.* Alaska is our largest state in land mass and communities are very spread out, sometimes over hundreds of miles. Some of these communities may depend on translators with primary stations more than 400km away for vital news and information. We are asking that translators in Alaska, in which the primary station is also located in Alaska, regardless of the distance, be considered a Local Translator. Translators in Alaska, in which primary station is outside Alaska would be considered a Distant Translator.

44. *Classification and protection of translators.* For translators that are entitled for protection by LPFM, REC is asking for the co-channel and first adjacent channels to be protected. In the Commission's NPRM, there were some distance spacing studies based on the translator's 60 dBu protection contour. In order to simplify this process while providing translators with the most protection possible, we propose that the Commission sub-classifies each translator based on the

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size of the stations protection contour. Our method does not require the use of extensive calculations, but instead uses a simple matrix to determine the translator's sub-class. We will use the three sub-classes recommended by the Commission. Sub-class A includes translators with a 60dBu contour of less than 7.3km, Sub-class B includes translators with a 60dBu contour between 7.3 and 13.29km and Sub-class C includes translators with a 60dBu contour of 13.3km or more. The translator's power and HAAT rounded up to the next 30m and 25 watts. Stations operating with 10 watts or less will be measured at 10 watts.

Use the following matrix to determine the Sub-class of a translator:

HAAT in meters	ERP (watts)						
	0-10	10.1-25	25.1-50	50.1-75	75.1-125	125.1-200	200.1-250
0-30	A	A	A	A	A	A	A
30.1-60	A	A	A	B	B	B	B
60.1-90	A	A	B	B	B	B	B
90.1-120	A	B	B	B	B	B	C
120.1-150	A	B	B	B	B	C	C
150.1-180	A	B	B	B	C	C	C
181.1-210	B	B	B	C	C	C	C
210.1-330	B	B	C	C	C	C	C
330.1-540	B	C	C	C	C	C	C
540.1-UP	C	C	C	C	C	C	C

IX. TYPE OF SERVICE OFFERED

44. *“Commercial” vs. “Non-commercial” operations.* REC is concerned that recent congressional action requiring auctions to settle mutually exclusive (MX) applications would destroy the spirit of the LPFM service. For this reason, we are very inclined to request that the LPFM service be non-commercial. We feel that this will also limit licenses to individuals, local community groups, minority organizations, schools, school districts and local churches.

45. *“Top-50” Media Markets.* REC has identified 50 major television markets (which we call “Media Markets”). These same markets can be found in §76.51(a) of the Commission’s rules. Within 100km of these markets, we propose that no 1000-watt (A1) or 250 watt (A2) stations would be available and that 100-watt (A3) stations would have primary status. 10-watt (D2) stations would also be available on a secondary basis. For a list of Top-50 markets, see Appendix “B”.

46. *The “Second-50” Media Markets.* REC has identified the 51st through 100th Media Markets. These same markets can be found in §76.51(b) of the Commission’s Rules. Within 100 km of these markets, no 1000-watt (A1) stations would be available. 250-watt primary (A2) stations would be available as well as secondary 100-watt (D1) and 10-watt (D2) stations would be available. For a list of the Second-50 markets, see Appendix “C”.

X. SPECTRUM CONSIDERATIONS

47. *Primary Stations.* We feel that there should be a primary level of service available in all areas. We feel that in rural areas, that translators and LPFM stations would be able to easily co-exist. We propose that in rural areas, both 1000-watt (A1/LP-1000) and 250 watt (A2) stations would be primary. In the metropolitan areas, where there are more local signals, translators are more at risk of being “bumped”. Many of the translators in metropolitan areas are distant translators. As we previously mentioned, we feel that a local signal should have priority over a distant signal. Since there’s less available spectrum available in metropolitan areas, we are suggesting that the 100-watt (A3) be the largest facility available. We feel that a primary

allocation would be an incentive to the potential LPFM licensee to build and maintain their station without the risk of being 'bumped'.

48. *Secondary stations.* Allotments of 100-watt stations (D1/LP-100) in rural areas and 10-watt (D2/Micro) stations in all areas will be considered secondary. Secondary stations can be displaced by full power FM and TV Channel 6 stations. Secondary stations are protected from other LPFM stations. Translators are protected subject to the conditions shown in section VIII.

49. *Use of non-reserved (channels 221-300) band.* In an effort to protect as many non-commercial translators as possible as well as promoting efficient spectrum usage, we are asking that LPFM stations, even though non-commercial, should have access to the non-reserved portion of the band. Non-commercial LPFM applicants should propose a channel in the reserved band (channels 198-220) if channels are available there. If no channels are available, they should be able to propose operations in the non-reserved band.

50. *Protection of Foreign Stations.* LPFM stations should take whatever measures it takes in order to protect foreign stations, present and future. This could be done through several measures including reduced power and directional antennas. LPFM stations will be subject to full foreign station protection for the first adjacent, second adjacent, third adjacent and IF channels. We feel that by using these measures, there should be a minimal impact on foreign stations and allotments.

51. *Status of NCE-FM Class-D (Secondary) stations.* REC feels that these stations should be transitioned into the Class D2 ("Microradio") service and during the transition process, these stations should have spectrum priority over new Class D2/Microradio applications. Class-D stations at high schools may either stay on their current channel, request a to move to Channel 198 where the channel is available or can move to another channel that is available for Class-D2/Microradio stations.

52. *Use of band-plans and frequency coordinators.* REC encourages prospective LPFM applicants, especially those in the Top-50 and Second-50 Media Markets to form frequency coordination councils, similar to those used in Amateur Radio. This would provide a no-cost service to prospective LPFM stations to be able to find channels that would promote efficient use of the spectrum. The coordinators could establish a band-plan that shows what channels could be used in what areas. Coordinators can make recommendations on what kind of services can go on what channel. Examples would be a like maybe a single channel (like 198) that could be used citywide for high school LP-10 stations, channels in certain areas set aside for special events, etc. Frequency coordinators should also be empowered to recommend to the Commission the allotment of an LPFM station that may be short-spaced with another LPFM station where it shows that due to terrestrial shielding or other circumstances, the two low level LPFM stations would not cause harmful interference to each other. Frequency coordinators would also be able to negotiate time-share agreements between LPFM stations and submit those agreements to the Commission to be included in the station's license records. Frequency Coordinators do not determine which applicants can or can't get an LPFM license and will be required to treat each applicant fairly. Membership in the coordinating council or any other organization is not

required to obtain frequency coordination services. The Commission should accredit a single frequency coordinator per "region". A "region" could either be a state, a group of states or a portion of a state. See Appendix H for our proposed list of regions. Each region will cover approximately an 800km radius.

53. *In Band On Channel (IBOC)*. We feel that LPFM can co-exist with the IBOC system. Based on comments we have received from the industry, it appears that IBOC requires a small portion of the first adjacent channel in order to work correctly. We feel that the higher-powered LPFM stations could have the potential of causing the most impact on IBOC. This is why we are recommending that the 1000-watt (LP-1000/A1) and 250-watt (A2) stations protect the second adjacent channel of full powered broadcast stations. 100-watt (LP-100/A3/D1) and 10-watt (Microradio/D2) stations would not have as serious of an impact on the second adjacent channel and therefore we are proposing that these stations not be required to protect the second adjacent. We feel that the broadcasting community should be looking at out-of-band spectrum for digital radio and preserve the full power and low power analog FM service as is. If IBOC interference becomes a serious issue at a later time after LPFM is implemented, we can consider at that time, a plan to extend the FM band down to 82 MHz, adding 30 additional channels reserved for non-commercial transitioned LPFM stations. We would eventually like to see a digital solution introduced to low power radio and by extending the band and spreading out the LPFM stations over a wider band in the future may be a solution. Just to reinforce what we previously said in this filing, with the exception of the implementation of Channels 198, 199 and 200; we are NOT asking for the band to be extended at this time.

XI. TECHNICAL CONSIDERATIONS

54. *Type acceptance of transmitters.* We feel that it is very important for LPFM stations to operate with the maximum of spectral purity and without interference to the broadcasting or other radio services. We feel that LPFM transmitters should be subject to a "type notification" process where the Commission sets standards (or uses existing standards) for the quality of the transmitter and other station equipment. The FCC should not require such equipment to be tested by an independent testing laboratory as that is costly and those costs are passed on to the non-commercial LPFM operator. In the same way, I don't feel that someone should be able to build their own "kit" transmitter and stick it on the air. Transmitters should be built by manufacturers that make each unit to exacting standards and are able to test the units prior to release into the marketplace. We feel that transmitter purchases should be controlled by requiring purchasers to present to the vendor a copy of the construction permit or license prior to the sale of a transmitter. We can even set up a scheme where manufacturers and vendors must be pre-approved by the Commission. This will not just assure that quality equipment is coming on the air but it also promotes new American small businesses as well as make it more difficult for pirate stations to purchase this equipment.

55. *Use of directional antennas.* LPFM stations should be allowed to use directional antennas as long as the field strength at the contour specified in Appendix "A" does not exceed 60dB. This is helpful for LPFM stations with lower antenna heights or unusual geographic locations. Two

or more LPFM stations operating on the same or adjacent channels can agree to a short spacing agreement through a frequency coordinator which could use directional antennas to assure protection of the two stations.

56. Reduced bandwidth and elimination of subcarriers. We feel that with the research that we have done on the impact of LPFM to full power stations and the possible future implementation of IBOC, we should be able to operate with the same bandwidth for the main audio channels as regular full power and translator stations. We are willing to give up our authority to operate SCA services as long as we are able to operate a full sounding stereo signal. Any transmitter or receiver that is currently available on the market for full power FM or translators should be usable on the LPFM service.

57. Technical contact person. All LPFM applicants, regardless of station class should be required to specify a "technical contact person (TCP)". This person would be similar to a chief-engineer at a full powered station. This person would be a key contact for the Commission in the event that there is a problem with the station. The TCP would not be singularly responsible for the technical operation of the station but is available to provide guidance to the station operator. The TCP must hold either an FCC Amateur Radio Service-General Class or an FCC General Radio Operator's License as proof that the TCP is competent on radio frequency and has proven that competency to the Commission through a series of tests and that person already is on file with the Commission. The operating record of the TCP as well as the licensee will be reviewed if any application or renewal is set aside for hearing. The TCP and the licensee may be the same person.

58. *Use of auxiliary broadcasting services.* We feel that all classes of LPFM stations should have access to the auxiliary broadcasting services. These services could be used by LPFM stations for local events, studio to transmitter links and point to point network links for emergency situations.

59. *Electromagnetic radiation protection.* In the case of stations operating 100 watts or less, we feel that since there's a licensed commercial and/or amateur operator as the technical contact person (as suggested in paragraph 51), the requirements for NEPA are met as these operators have experience with and many have been tested on electromagnetic radiation protection. Stations over 100 watts (A1/A2/LP-1000) should be subject to the same standards and regulations required of full power FM stations.

60. *Unattended Operation.* LPFM stations should be permitted to operate unattended as long as there are mechanisms in place to turn off the station in the event of serious interference. This mechanism could either be a phone controlled link or a radio control link using either auxiliary broadcast, land mobile or amateur radio simplex frequencies. The TCP should be reachable by the Commission any time the LPFM station is on the air. This should be done by the TCP or someone delegated by the TCP or licensee to be available by pager in order to quickly respond to Commission requests to resolve interference. This service could also be conducted by the frequency

coordinators on behalf of the LPFM licensee. We do not see too many of these emergency interference cases happening.

XII. OWNERSHIP OF STATIONS

61. *Eligibility for station ownership.* Ownership of LPFM stations should be limited to individuals, school districts and registered tax-exempt organizations including community groups and local churches.

62. *Residency requirements.* In order to assure that the licensee is capable of providing a local radio service, we are asking that the licensee would be required to reside within the 60 dBu protected service contour of their LPFM station. In the case of school districts, the LPFM station transmitter must be physically located on the school campus. In the case of tax-exempt organizations, at least one officer must reside within the 60 dBu protected service contour of the LPFM station.

63. *Limit on the number of stations one can own.* REC is proposing a limit of **one** LPFM station that can be owned by a single individual or an organization. In the case of school districts, a school district may own one 10-watt (D2/LP-10) station per campus that is engaged in the everyday instruction of a full curriculum in the 12th grade level (high school).

64. *Cross-ownership by full-powered broadcasters and translator owners.* We feel that LPFM stations should not be owned or operated by any corporation which has a full power AM, FM, International Broadcast Station, TV, LPTV or TV/FM translator license (collectively "broadcast licensee"). Any individual who holds at least a 5% share or serves on the board of directors of a broadcast licensee would also be ineligible for an LPFM license. We will ask talk about exemptions for school districts that are also broadcast licensees later in this filing.

65. *Cross-ownership by other mass-media entities.* We vision the LPFM service as a means of providing mass-communications to individuals or organizations who do not have the facilities of providing mass-communications using other sources. With this, we ask that operators (and individuals who hold a minimum 5% share or serve on the board of directors) of daily and weekly newspapers, cable television and MMDS providers.

66. *Cross-ownership by facilities based internet service providers.* Internet service providers have very high speed access pipes to the internet and are capable of providing "web casting". We are asking that internet service providers who are involved in the sale of dial-up or dedicated internet access or any individual who holds a minimum 5% share or serves on the board of directors should be ineligible for an LPFM license. Nothing in this provision should prohibit an LPFM operator from obtaining a low or high speed internet connection to simulcast their LPFM output on the internet nor should this prohibit the LPFM licensee to operate a station web site. An individual who is involved in the resale of web site access or provides web design services where a dial-up or dedicated access to the internet is not delivered to their customer is not

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considered a facilities based internet service provider and should be considered eligible for an LPFM license.

67. *Evaluation of character and the handling of "pirates"*. One time, someone used the analogy of pirate radio operators and comparing them to Rosa Parks. Unlike some (but not all) pirates, Rosa Parks sitting in the front seat of the bus did not cause interference to full powered broadcasters and radio services outside the broadcasting service. We feel that stations that have voluntarily shut down their stations either with or without notification from the Commission should be eligible for LPFM licensing. Those who were involved in pirate broadcasting where there was either an equipment seizure and/or a NAL issued can apply for an LPFM station but their application will be set aside for hearing and ordered to show cause why the Commission should grant an LPFM license to the applicant. This same procedure should apply to licensees in the Amateur Radio and other services who have had those licenses revoked. In compliance with federal regulations, all LPFM licensees would be required to complete an Anti-Drug Abuse Certification prior to the grant of the construction permit.

68. *Ownership of stations by colleges and universities with full-power facilities*. Institutions which also have full power FM, AM or TV stations³ already have a means to mass-communicate and offer their students training in broadcasting and therefore should be ineligible for licensing in the LPFM service.

3 – It should also be noted that schools, colleges and universities are also eligible under Part 15 to operate a carrier current system using the power lines on their campus. Here in Tempe, the campus station at Arizona State University operates on a carrier current system on 1260 kHz and can be heard within a 4 mile radius of the campus.

69. *10 watt stations on 12th grade high school campuses.* A school district or an accredited private school that currently has an active ongoing curriculum in the 12th grade of education may operate one part time 10-watt (D2/Microradio) station per campus. These stations are subject to time-sharing requirements with other 10-watt stations. What we see is an arrangement where the schools use the channel during the week and during the weekend, the channel would be used by other broadcasters such as individuals, special events or churches. For example, high school stations can operate a schedule of Monday through Friday 5AM to 6PM⁴ with no minimum operating period during that time. A typical bandplan for a metro area is that we set aside a single channel (like Channel 198/87.5) and during the week, the high school stations would be able to load the channel and provide the proper spacing between the stations. The times and frequencies used could be decided on by the coordinators.

70. *LPFM stations for churches and other evening and weekend broadcasters.* In the evenings and on the weekends, LP-10 stations that could operate on the same channel(s) used by weekday high school stations. These stations would then have to be properly spaced. Both the weekday high school stations and the weekend broadcasters would still be required to provide adjacent channel protection. This plan could be administrated by a local frequency coordinator and therefore would not cause an administrative burden on the Commission.

4 – In the Arizona Microradio Association (AZMA) 99-25 Draft Band plan, we have suggested a plan where high school stations would operate between 6 AM and 6 PM Monday through Friday. Friday operation can be extended to 11 PM during high school football season. During other times, other community oriented micro-radio stations can operate on the same channel. This will promote spectrum efficiency.

XIII. OPERATION OF STATIONS

71. *Hours of operation.* Stations that operate over 100 watts (A1/A2/LP-1000) would be required to operate a schedule similar to that of a full power broadcaster. Stations operating at 100 watts or less would not be subject to a schedule but would be expected to enter into a time-share agreement with other LPFM stations who also may wish to use the channel. Time-share agreements would be negotiated by the local frequency coordinator and then submitted to the Commission.

72. *"Special Event" authorizations.* We feel that there should be a provision for certain LPFM stations to operate an irregular schedule to provide broadcasting services for special events including sporting events, horse/dog/auto racing, street fairs, parades, rodeos, etc. Licensees for these special event stations must meet all other licensing requirements and provide a non-commercial service. Special Event stations would be limited to 10 watts (D2/Microradio) and their hours of operations should be coordinated through the frequency coordinators. Special event stations would only be licensed on an on-going basis and will not be licensed only for a single event.⁵

5 – In the Phoenix Metropolitan Area, we have identified many places with ongoing events that should be licensed with part-time special event stations. These locations include: Bank One Ballpark, America West Arena, Sun Devil Stadium, Downtown Tempe, Turf Paradise Race Course, Phoenix Greyhound Park, Phoenix International Raceway, Firebird Lake, Rawhide, Westworld as well as about a dozen of Cactus League spring training baseball parks. Many of these stations operate outside of high school hours and could use 87.5 in the Phoenix Metropolitan Area. We feel that the 10 watt licensees will be willing to share the channel in order to allow for these special event stations to operate the few days a year they need to.

73. *Local origination requirements.* We feel that an LPFM station should be allowed to broadcast a mixture of local and network programming. We should also encourage LPFM stations to use STL and RPU links to link stations together for local network and emergency broadcasting. Many LPFM stations will serve minority audiences and due to the fact that shortwave broadcasts can not be received too well in multiple dwelling units, LPFM stations should be able to retransmit the satellite signals of international broadcasters (with the consent of the international broadcaster, of course.) for a portion of their broadcast day. The Commission is proposing to prohibit LPFM from operating as a translator. What is to stop an LPFM station from rebroadcasting a satellite service that is not a broadcast station 24 hours a day? This is a loophole that must be closed-up. We are suggesting that in a broadcast day, at least 8-hours of programming between 7AM and 10PM local time Monday through Friday must be locally originated or originated from a location within 50 km of the station. There will be no local origination restrictions between 10PM and 7AM Monday-Friday⁶ as well as any time during the weekends. This would allow a station to operate with a minimal paid and/or volunteer staff yet maintains the local integrity of the LPFM service. We also don't feel the Commission should impose what type of local origination programs a station should program during its mandatory local programming period. Stations will have up to 12 months from license grant to comply with these local origination requirements.

6 - In the case of 10 watt evening and weekend stations, we must put some rulemaking in place which would require them to operate a minimum of 3 hours per night of local-originated

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programming between 6PM and 12 midnight, Monday through Friday and a minimum of 8 hours of programming on Saturdays and Sundays.

74. *Political broadcasts and equal time.* Any radio station, regardless of its size is a very powerful medium. It is very important that the same political broadcast and equal time regulations that currently apply to full power stations should also apply to all classes of LPFM stations.

75. *Emergency Alert System (EAS).* Since we propose that stations over 100 watts (A1/A2/LP-1000) only be licensed to rural areas and smaller markets, it is very important that of those licensees participate in EAS and the Commission should impose requirements for monitoring equipment and shut down for non-participation. Stations operating 100 watts or less (A3/D1/D2/LP-100/Microradio) may not powerful enough to provide an effective emergency service and should not be subject to requirements but should be allowed to voluntarily participate in EAS. LPFM stations operating 100 watts or less who are not voluntarily participating in EAS should voluntarily shut down during national emergencies.

76. *Station identification requirements and call signs.* With all of the monikers used to identify radio stations (like "Mix", "Kiss", "Power", etc.), the only thing that gives each station its individuality is it's call sign. Unlike TV stations, AM and FM stations are required to *speak* their legal call sign, therefore a call sign is more intimate in the minds of listeners than a call sign of a TV or LPTV station. For this reason, we feel that call signs are very important. For all

stations except 10 watt stations (D2/Microradio), we are proposing that 4-letter call signs with the suffix “-LF” (“-LA” for low-power AM) be assigned. (for example: KAAA-LF, KZZZ-LA, WAAA-LF, etc.) Call signs with conflicting prefixes in the same market will not be assigned; these call signs will be issued on a first come first served basis. If a full power station wanted to use the same call sign as a current LPFM station, the full power station can not force the LPFM to change their call sign. All stations except 10-watt stations would be required to identify with their call sign (with -LF suffix) and city of license once an hour. Stations operating 10 watts or less can opt for “-LF” (“-LA” for low-power AM) call signs. 10 watt FM stations will be assigned by default, a call sign similar to those assigned to translators (such as K200AA). 10 watt AM stations will receive four letter call signs (with the -LA suffix) as a default. Stations operating 10 watts or less would only be required to identify once between 6AM and 9AM, once between 11AM and 1PM and once between 4PM and 6PM and at the beginning and end of their broadcast day for part time stations.

77. Inspection of public file. We agree that LPFM stations are subject to the same rules as full power stations when it comes to stations being made available for inspection. LPFM stations want to comply with the rules just as much as full power stations do. All LPFM stations should maintain a public file. In the case of stations operating 100 watts or less (A3/D1/D2/LP-100/Microradio), they should be allowed to place their public files on the

Internet in lieu of having a public inspection location since many of these stations may be operated from private residences.

XIV. THE LICENSING PROCESS

78. License terms and renewals. LPFM stations should be given a 5 year renewable license term. Such a short term would make the station more accountable for its local service as well as placing a necessary burden on LPFM licensees to renew their licenses to support the fact they are still interested in providing this local service. We disagree with the concept of a non-renewable license in an effort to “pass the microphone” to others. We feel through proper frequency coordination and time-sharing arrangements in lower power services (100 watts or less), many in crowded urban areas would have their turn at the microphone without having to wait several years for a license to expire.

79. Construction Permits. We agree with the Commission on their proposed lengths for construction permits. If the FCC accepts REC’s or Amherst’s 250-watt service, the construction permit period should be 18 months. We would also like to see a prohibition on the sale or trafficking of construction permits. If an applicant is unable to construct their station, their CP station should be returned to the Commission for cancellation.

80. Relaxing public notice requirements. We feel that with the availability of the Internet and the burdensome costs of placing advertisements in newspapers, we feel that it should be an option

for an LPFM applicant to post their public notice on the Internet. Such notice can be done either via a USENET newsgroup or on a locally recognized web site. LPFM stations should still have the option of using traditional print advertising.

81. *Handling mutually exclusive applications.* If the LPFM service is made non-commercial, auctions would not be required. For the primary services, LPFM stations should be licensed on a first come, first served basis. Applications would be filed electronically via the Internet. Access to the Internet is readily available at most public libraries. For the lower-powered (100w or less) services, licensees can reach timeshare agreements through frequency coordinators. This will allow for a greater diversity of voices, especially in urban areas.

82. *Filing windows.* REC feels that the initial filing window should be 10 business days (2 weeks) and that there should be several “gates” for applications:

- Gate 1: 1000 watt (A1) applications in rural areas and 100-watt primary (A3) applications in metropolitan areas.
- Gate 2: 250 watt (A2) applications in rural and second-50 markets.
- Gate 3: 100 watt (D1) secondary applications in rural and second-50 markets.
- Gate 4: 10 watt (D2) secondary applications in all areas.

83. *Regulatory Fees.* REC is proposing a non-commercial service and regulatory fees normally do not apply to a non-commercial service. In the event that the FCC approves a commercial LPFM service, the regulatory fees for primary status stations should be similar to those of LPTV stations (\$265/year). Secondary stations should have a reduced regulatory fee, no more than \$100 per year.

XV. ESTABLISHMENT OF A LOW POWER AM SERVICE

84. *Overview.* We feel that the Commission reconsider its position on a Low Power AM service as an "overflow" service in areas where no channels are available for LPFM. We also vision that some special event operations may operate on AM instead of FM.

85. *Secondary status.* Low Power AM ("LPAM") stations would operate as a secondary service and would be required to protect full power daytime AM stations and any LPAM station which chooses to operate at night must protect a full power station's nighttime service areas.

86. *Eligibility.* The eligibility for licensing in the LPAM service is similar to the licensing in the LPFM service. Existing LPFM licensees should be permitted to also operate a 10 watt LPAM station on a secondary basis until the channel is needed by another LPAM licensee who can not be placed on the FM band.

87. *Channels available.* Potential LPAM stations should apply for channels between 1610 and 1700, if no channels are available then the applicant could file for channels between 530 and 1600. We will use the interference model that currently applies to Travelers Information Stations, which can be found in §90.242(a)(2)(i). Pretty much, LPAM stations should propose operation on at least the third-adjacent channel to a local AM broadcast station and should choose a frequency that is not in another station's nighttime service area. The frequency search process for LPAM is not as cut-and-dry as the LPFM process so we do not see as many applicants for the LPAM service. Only those who are serious about getting a station on the air

would be interested in going through the LPAM process. Those who apply for LPAM must be well aware that these stations will have seriously degraded performance at night.

88. *Output Power.* All LPAM stations should be limited to 10 watts total output power.

89. *Antenna Systems.* LPAM antenna systems should be simple and compact. Directional antennas would not be permitted.

XVI. CONCLUSION

- REC Networks urges the Commission to implement the Low Power Radio Service in an expeditious manner with the modifications that we have proposed.
- REC feels that the non-commercial nature of the LPFM/LPAM service will not cause an economic hardship on full powered stations, especially in small markets.
- Low Power radio is compatible and can co-exist with current and future broadcasting technologies.
- Low Power stations will provide specialized programming services, those for audiences too small for full power radio stations.
- Low Power radio will provide minority groups and churches with a means of mass communications in order to reach people who would normally not be able to assemble in a public location due to issues like disability or a lack of transportation.
- Low Power radio is the voice of the people who can speak freely without worrying about a corporate owner's bottom line.
- Low Power radio is local programming managed by local people and operated by those who are competent in the radio art.
- Low Power radio will provide a new training ground for future broadcasters who can move on to full power broadcasters. The Commission already helped foster training in the broadcasting art approving the release of this NPRM. Before I started doing the research on the subject of LPFM, I did not know much about interference contours and service contours. I did not know my dBu's from my mV/M's. I want to also thank the staff of the Audio Services Division of the Mass Media Bureau for providing excellent on-line resource material that really assisted in the preparation of these comments.

Respectfully Submitted,

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APPENDIX 'A'

OVERVIEW OF CLASSES OF LPFM STATIONS PROPOSED BY REC NETWORKS

**Includes protected contours, interference contours and
distance spacing requirements.**

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CLASS A1

Primary Service

This is similar to the FCC proposed "LP-1000" service.

Not available within 100km of the top-50 markets.

Not available within 100km of the second-50 markets.

Reported Internationally as Class A.

Will protect first adjacent, second adjacent channels and IF of full power stations.

Will protect first adjacent channels of LPFM stations.

1.0 kW ERP at 60m HAAT

Minimum: 0.3kW ERP with no minimum HAAT.

60dBu protected service contour. (14.2 km)

Interference Contours:

Other Station	Class B	Class B1	All Others
Co-Channel	71.9km (34 dBu)	60.5km (37 dBu)	50.8km (40 dBu)
First-Adjacent	29.9km (48 dBu)	25.1km (51 dBu)	21.1km (54 dBu)
Second-Adjacent	6.3 km (74 dBu)	5.3 km (77 dBu)	4.6 km (80 dBu)

Proposed Distance Separation Requirements:

	Co-Channel	First Adjacent	Second Adjacent	IF
A (6kw/100m)	101	58	33	7
A1 (1kw/60m)	65	35	...	...
A2 (0.25kW/40m)	59	30	...	...
A3 (0.1kW/30m)	56	28	...	...
B1 (25kw/100m)	128	74	50	9
B (50kW/150m)	152	95	71	13
C3 (25kW/100m)	128	74	44	13
C2 (50kw/150m)	152	92	57	9
C1 (100kW/299m)	186	119	77	20
C (100kW/600m)	212	151	96	28
D1 (0.1kW/30m)	56	28	...	...
D2 (1W/30m)	52	23	...	...
"A" Translators	39	25	...	...
"B" Translators	60	35	...	...
"C" Translators	76	44	...	...

No Class A1 station will be assigned on Channel 253 (98.5) if it proposes a transmitter location within 10km of a full power NTSC Channel 6 station. This applies to both TV Zones I and II.

Class A1 stations would have primary status over all translators. REC recommends that Class A1 stations should pick a channel that will allow the LPFM and the translator station to co-exist. If no channels are available using that method, the LPFM can displace the translator.

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CLASS A2

Primary Service

Not available within 100km of the top-50 markets.

Reported to Mexico as Class A.

Reported to Canada as Class A1.

Will protect first and second adjacent channels of full power stations.

Will protect first adjacent channels of LPFM stations.

0.25kW at 40m HAAT.

Minimum 0.15kW with no minimum HAAT.

60dBu protected service contour. (8.2 km)

Interference Contours:

Other Station	Class B	Class B1	All Others
Co-Channel	41.5km (34 dBu)	33.3km (37 dBu)	27.2km (40 dBu)
First-Adjacent	16.7km (48 dBu)	13.6km (51 dBu)	11.6km (54 dBu)
Second-Adjacent	3.6km (74 dBu)	3.0km (77 dBu)	2.6km (80 dBu)

Proposed Distance Separation Requirements:

Since no study was done on this 250-watt level in the NPRM, we will do a similar study here. The first amount is the distance separation required for the LPFM to not cause interference to the other protected station. The second amount is the distance separation required for the other station to not cause interference to the LPFM. Whichever amount is the larger amount will be the actual distance separation proposed.

	Co-Channel	First Adjacent	Second Adjacent	IF
A (6kw/100m)	56/95	40/51	31/18	6
A1 (1kw/60m)	42/59	26/30	...	...
A2 (0.25kW/40m)	36/36	20/20	...	...
A3 (0.1kW/30m)	33/27	17/17	...	...
B1 (25kw/100m)	78/122	58/69	48/21	8
B (50kW/150m)	107/146	77/87	69/28	12
C3 (25kW/100m)	67/122	51/69	42/21	12
C2 (50kw/150m)	80/146	64/85	55/28	8
C1 (100kW/299m)	100/180	84/114	75/42	19
C (100kW/600m)	119/206	103/145	94/59	26
D1 (0.1kW/30m)	33/27	17/17	...	...
D2 (1W/30m)	29/14	14/11	...	...
"A" Translators	35	21	...	...
"B" Translators	56	31	...	...
"C" Translators	72	40	...	...

No Class A2 station will be assigned on Channel 253 (98.5) if it proposes a transmitter location within 7km of a full power NTSC Channel 6 station. This applies to both TV Zones I and II.

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CLASS A3

Primary Service

Available ONLY within 100km of the top-50 markets (where A1 & A2 are not available)

Reported to Canada as Class A1.

Reported to Mexico as Class D.

Will protect first adjacent channels on LPFM and full power stations.

0.1 kW at 30m HAAT.

Minimum 0.05kW with no minimum HAAT.

60dBu protected service contour. (5.2 km)

Interference Contours:

Other Station	Class B	Class B1	All Others
Co-Channel	26.9km (34 dBu)	22.4 km (37 dBu)	18.6 km (40 dBu)
First-Adjacent	11.4 km (48 dBu)	9.6 km (51 dBu)	8.0 km (54 dBu)

Proposed Distance Separation Requirements:

	Co-Channel	First Adjacent
A (6kw/100m)	92	49
A1 (1kw/60m)	32/56	23/28
A2 (0.25kW/40m)	33	17
A3 (0.1kW/30m)	24	14
B1 (25kw/100m)	119	66
B (50kW/150m)	143	84
C3 (25kW/100m)	119	66
C2 (50kw/150m)	143	84
C1 (100kW/299m)	178	111
C (100kW/600m)	203	142
D1 (0.1kW/30m)	24	14
D2 (1W/30m)	20	10
"A" Translators	30	16
"B" Translators	51	26
"C" Translators	67	35

CLASS D1

Secondary Service

This is similar to the FCC proposed "LP-100" service.

Available ONLY outside 100km of the top-50 markets.

All other engineering parameters are the same as Class A3.

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CLASS D2

Secondary Service

This is similar to the FCC proposed "Micro Radio" class service.

Available in all areas.

Reported to Canada as Class A1.

Reported to Mexico as Class D.

Will protect first adjacent channels on LPFM and full power stations.

0.01 kW at 10m (approx. 40 feet) HAAT or 1 watt at 30m HAAT.

Minimum 1 watt with no minimum HAAT.

60dBu protected service contour. (1.8 km)

In the NPRM, the Commission based it's study on 1 watt at 30m (90 feet). In reality, we do not project that most 10 watt stations will use an antenna height of 30m (we are going to figure that the average antenna height will be about 10 meters HAAT. Since the Commission and REC can not do calculations at 10m HAAT, we will agree with the Commission and use the 1w at 30m HAAT in our figures.

Interference Contour:

Other Station	Class B	Class B1	All Others
Co-Channel	8.0 km (34 dBu)	6.7 km (37 dBu)	5.6 km (40 dBu)
First-Adjacent	3.5 km (48 dBu)	3.0 km (51 dBu)	2.5 km (54 dBu)

Proposed Distance Separation Requirements:

	Co-Channel	First Adjacent
A (6kw/100m)	89	46
A1 (1kw/60m)	20/52	17/23
A2 (0.25kW/40m)	14/29	11/14
A3 (0.1kW/30m)	11/20	8/10
B1 (25kw/100m)	115	62
B (50kW/150m)	140	80
C3 (25kW/100m)	115	62
C2 (50kW/150m)	140	80
C1 (100kW/299m)	174	107
C (100kW/600m)	200	138
D1 (0.1kW/30m)	11/20	8/10
D2 (1W/30m)	7	4
"A" Translators	26	12
"B" Translators	47	22
"C" Translators	63	31

Entries with two figures indicate the both the distance required for the D2 (LP-10) station to not interfere with the other station and the distance required for the other station to not interfere with the D2 (LP-10). The higher values will be the actual required distance separation.

In addition to the protections shown above, LPFM stations proposing to operate on Channels 198, 199 and 200 must also protect TV Channel 6 stations by using the following table:

	Channel 198 (87.5)	Channel 199 (87.7)	Channel 200 (87.9)
NTSC	138	200	138
DTV	300	300	300
LPTV	46	89	46

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Calculations used when figuring out full powered station's Interference Contours:

Class A (6kw/100m)

Other Station	All Others
Co-Channel	86.7 (40 dBu)
First-Adjacent	43.7 (54 dBu)
Second-Adjacent	9.1 (80 dBu)

Class B1 (25kw/100m)

Other Station	All Others
Co-Channel	113.6 (40 dBu)
First-Adjacent	60.2 (54 dBu)
Second-Adjacent	12.8 (80 dBu)

Class B (50kW/150m)

Other Station	All Others
Co-Channel	137.7 (40 dBu)
First-Adjacent	78.1 (54 dBu)
Second-Adjacent	19.9 (80 dBu)

Class C3 (25kW/100m)

Other Station	All Others
Co-Channel	113.6 (40 dBu)
First-Adjacent	60.2 (54 dBu)
Second-Adjacent	12.8 (80 dBu)

Class C2 (50kW/150m)

Other Station	All Others
Co-Channel	137.7 (40 dBu)
First-Adjacent	78.1 (54 dBu)
Second-Adjacent	19.9 (80 dBu)

Class C1 (100kW/299m)

Other Station	All Others
Co-Channel	171.9 (40 dBu)
First-Adjacent	105.0 (54 dBu)
Second-Adjacent	33.7 (80 dBu)

Class C (100kW/600m)

Other Station	All Others
Co-Channel	197.8 (40 dBu)
First-Adjacent	136.6 (54 dBu)
Second-Adjacent	50.4 (80 dBu)

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APPENDIX 'B' – TOP 50 MEDIA MARKETS

1000 watt (A1/LP-1000) and 250 watt (A2) stations are not available within 100km of these geographic points:

		Lat.			Long.					Lat.			Long.		
1	New York NY	40	45	6	73	59	39	26	Memphis TN	35	8	46	90	3	13
2	Los Angeles CA	34	3	15	118	14	28	27	Columbus OH	39	47	57	83	0	17
3	Chicago IL	41	52	28	87	38	22	28	Tampa FL	27	56	58	82	27	26
4	Philadelphia PA	39	56	58	75	9	21	29	Portland OR	45	31	6	122	40	35
5	Detroit MI	42	19	48	83	2	57	30	Nashville TN	36	9	33	86	46	55
6	Boston MA	42	21	24	71	3	25	31	New Orleans LA	29	56	53	94	4	10
7	San Francisco CA	37	46	39	122	24	40	32	Denver CO	39	44	58	104	59	22
8	Cleveland OH	41	29	51	81	41	50	33	Providence RI	41	49	32	71	24	41
9	Washington DC	38	53	51	77	0	33	34	Albany NY	42	39	1	73	45	1
10	Pittsburgh PA	40	26	19	80	0	0	35	Syracuse NY	43	3	4	76	9	14
11	St. Louis MO	38	37	45	90	12	22	36	Charleston WV	38	21	1	81	37	52
12	Dallas TX	32	47	9	96	47	37	37	Grand Rapids MI	42	58	3	85	40	13
13	Minneapolis MN	44	58	57	93	15	43	38	Louisville KY	38	14	47	85	45	49
14	Baltimore MD	39	17	26	76	36	45	39	Oklahoma City OK	35	28	26	97	31	4
15	Houston TX	29	45	26	95	21	37	40	Birmingham AL	33	31	1	86	48	36
16	Indianapolis IN	39	46	7	84	30	35	41	Dayton OH	39	45	32	84	11	43
17	Cincinnati OH	39	6	7	84	30	35	42	Charlotte NC	35	13	44	80	50	45
18	Atlanta GA	33	45	10	84	23	37	43	Phoenix AZ	33	27	12	112	4	28
19	Hartford CT	41	46	12	72	40	49	44	Norfolk VA	36	51	10	76	17	21
20	Seattle WA	47	36	32	122	20	12	45	San Antonio TX	29	25	37	98	29	6
21	Miami FL	25	46	37	80	11	32	46	Greenville SC	34	50	50	82	24	1
22	Kansas City MO	39	4	56	94	35	20	47	Winston-Salem NC	36	5	52	80	14	42
23	Milwaukee WI	43	2	19	87	54	15	48	Salt Lake City UT	40	45	23	111	52	26
24	Buffalo NY	42	52	52	78	52	21	49	Wilkes Barre PA	41	14	32	75	53	17
25	Sacramento CA	38	34	57	121	29	41	50	Little Rock AR	34	44	42	92	16	37

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APPENDIX 'C' – SECOND 50 MEDIA MARKETS

1000 watt (A1/LP-1000) stations are not available within 100km of these geographic points:

		Lat.			Long					Lat.			Long		
51	San Diego, CA	32	42	53	117	9	21	76	Spokane, WA	47	39	32	117	25	33
52	Toledo, OH	41	39	14	83	32	39	77	Jackson, MS	32	17	56	90	11	6
53	Omaha, NE	41	15	42	95	56	14	78	Chattanooga, TN	35	2	41	85	18	32
54	Tulsa, OK	36	9	12	95	59	34	79	Youngstown, OH	41	5	57	80	39	2
55	Orlando, FL	28	32	42	81	22	38	80	South Bend, IN	41	40	33	86	15	1
56	Rochester, NY	43	9	41	77	36	21	81	Albuquerque, NM	35	5	1	106	39	5
57	Harrisburg, PA	40	15	43	76	52	59	82	Fort Wayne, IN	41	4	21	85	8	26
58	Shreveport, LA	32	30	46	93	44	58	83	Peoria, IL	40	41	42	89	35	33
59	Mobile, AL	30	41	36	88	2	3	84	Greenville, NC	35	36	49	72	22	22
60	Davenport, IA	41	34	24	90	34	21	85	Sioux Falls, SD	43	32	25	96	43	35
61	Flint, MI	43	0	50	83	41	33	86	Evansville, IN	37	58	20	87	34	21
62	Green Bay, WI	44	30	48	88	0	50	87	Baton Rouge, LA	30	26	58	91	11	0
63	Richmond, VA	37	32	15	77	26	9	88	Beaumont, TX	30	5	20	94	6	9
64	Springfield, IL	39	47	58	89	38	51	89	Duluth, MN	46	46	56	92	6	24
65	Cedar Rapids, IA	41	58	48	91	39	48	90	Wheeling, WV	40	4	3	80	43	20
66	Des Moines, IA	41	35	14	93	37	0	91	Lincoln, NE	40	48	59	96	42	15
67	Wichita, KS	37	41	30	97	20	16	92	Lansing, MI	42	44	1	84	33	15
68	Jacksonville, FL	30	19	44	81	39	42	93	Madison, WI	43	4	23	89	22	55
69	Cape Girardeau, MO	37	18	29	89	31	29	94	Columbus, GA	32	28	7	84	59	24
70	Roanoke, VA	37	16	13	79	56	44	95	Amarillo, TX	35	12	27	101	50	4
71	Knoxville, TN	35	37	39	83	55	7	96	Huntsville, AL	34	44	18	86	35	19
72	Fresno, CA	36	44	12	119	47	11	97	Rockford, IL	42	16	7	89	5	48
73	Raleigh, NC	35	46	38	78	38	21	98	Fargo, ND	46	52	30	96	47	18
74	Altoona, PA	40	33	55	78	24	3	99	Monroe, LA	32	30	2	92	6	5
75	Portland, ME	43	39	33	70	15	19	100	Columbia, SC	34	0	2	81	2	0

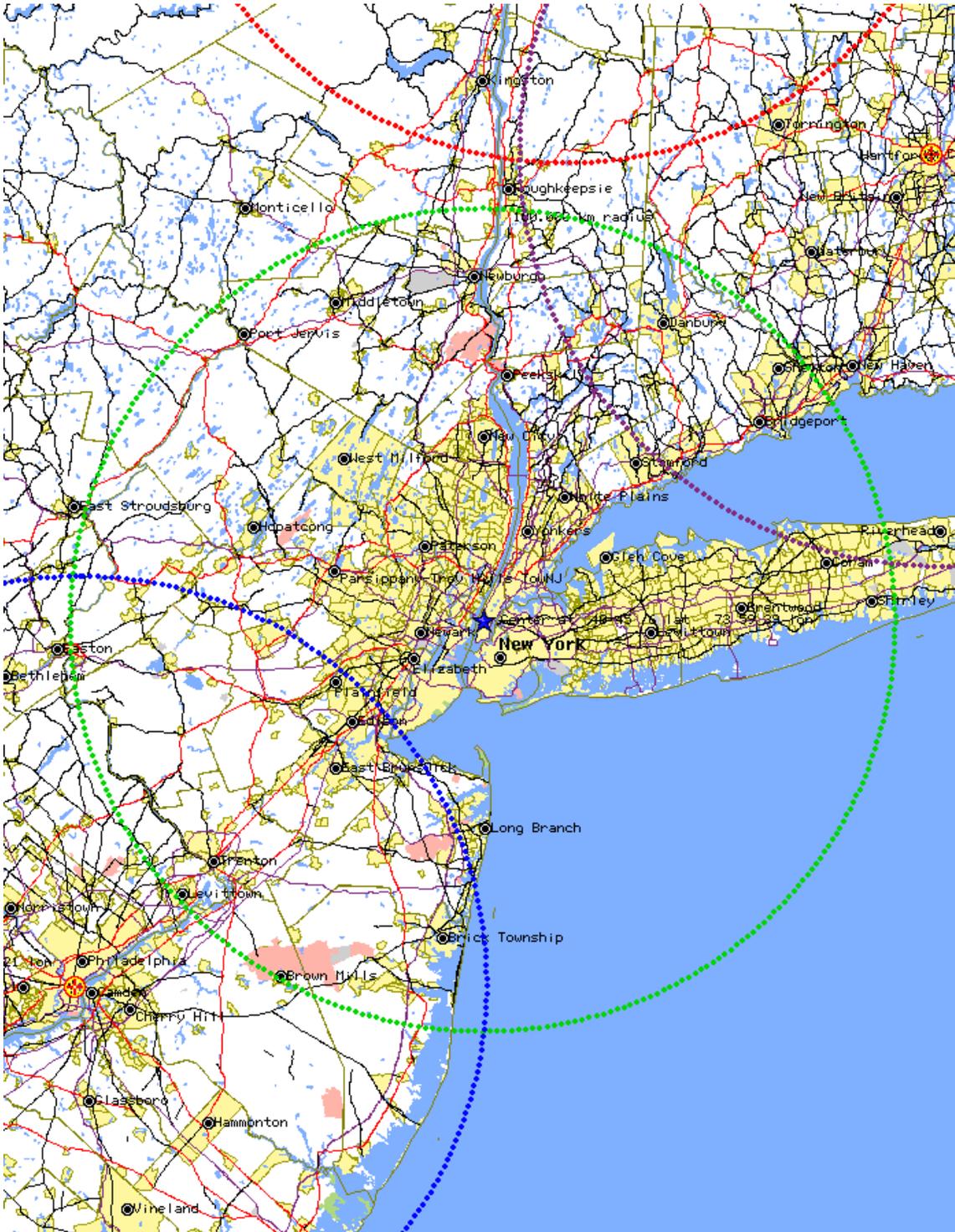
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APPENDIX 'D'

**MAPS OF SELECTED
MEDIA MARKETS**

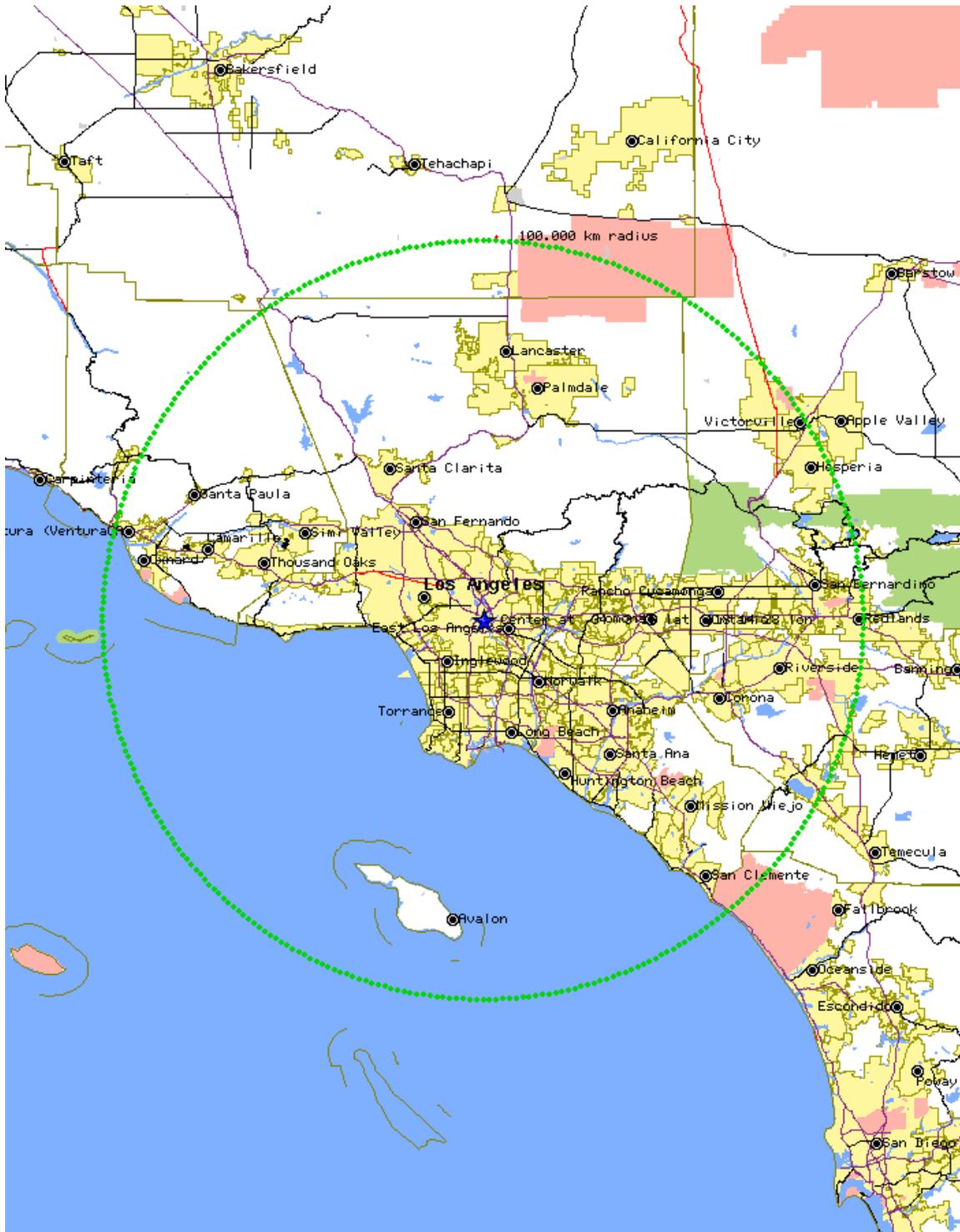
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NEW YORK NY



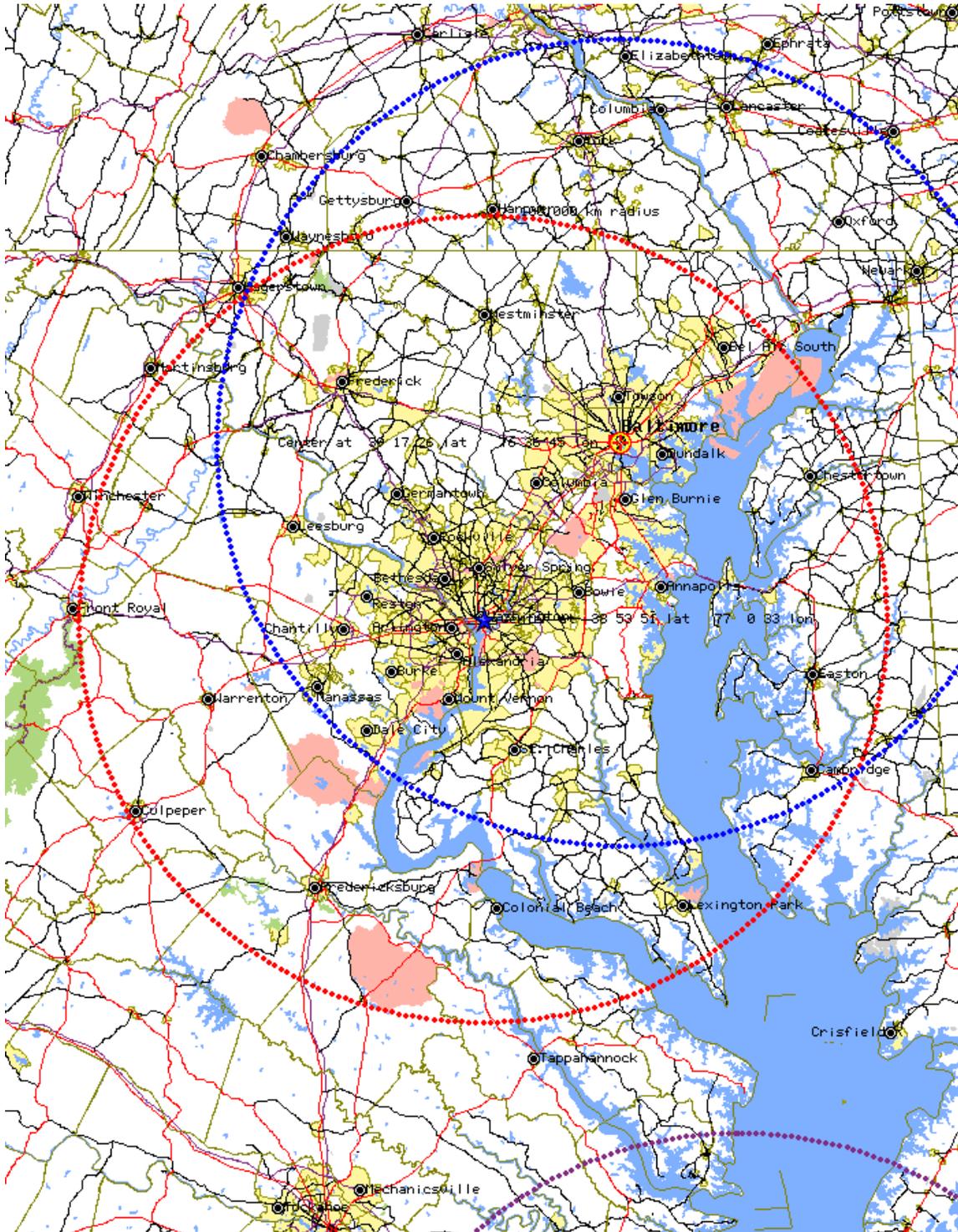
REC NETWORKS
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LOS ANGELES, CA



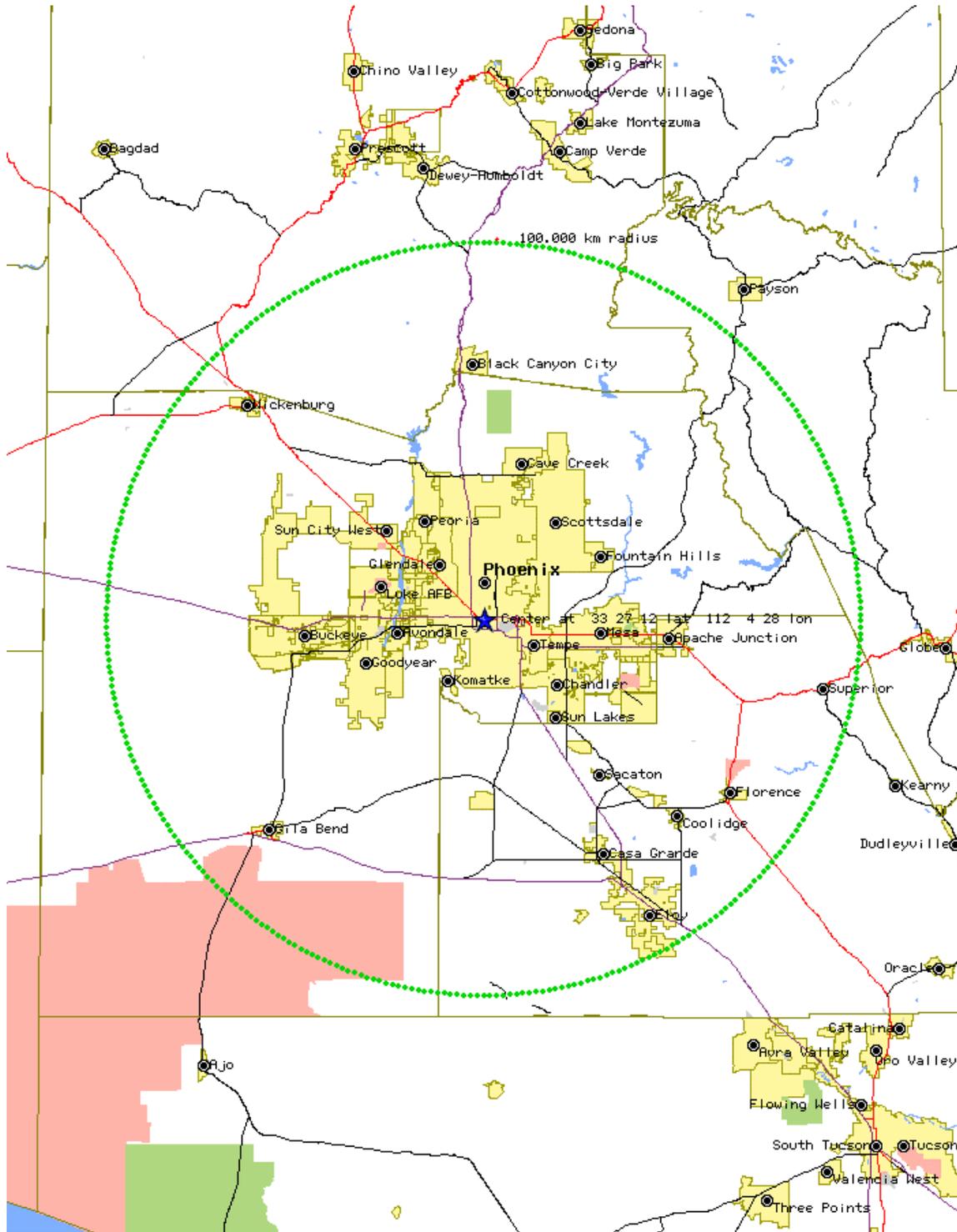
REC NETWORKS
FCC 99-25 5-10-1999

BALTIMORE/WASHINGTON AREA



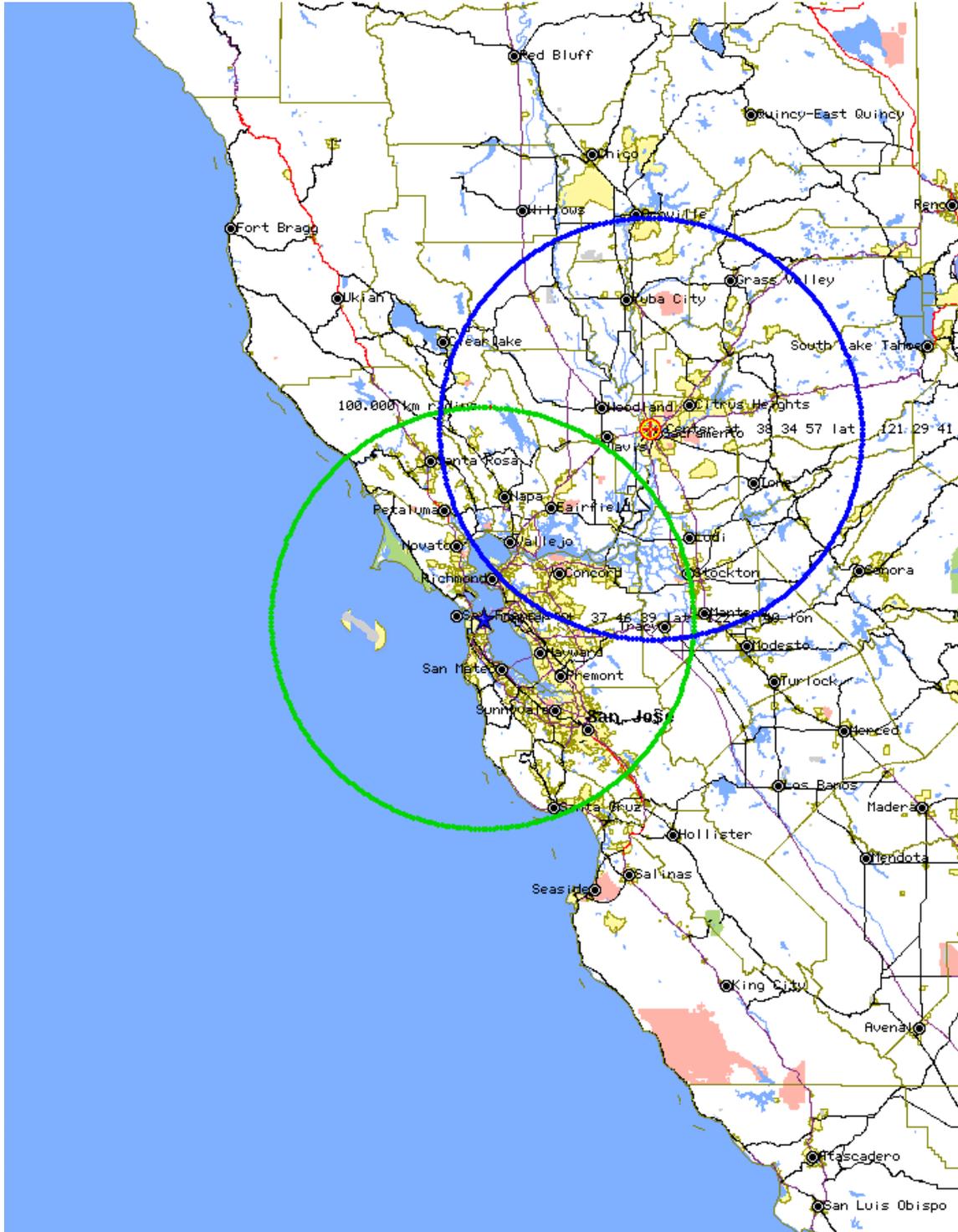
REC NETWORKS
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PHOENIX, AZ



REC NETWORKS
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SAN FRANCISCO/SACRAMENTO, CA



APPENDIX ‘E’

**LIST OF DISTANT TRANSLATORS
IDENTIFIED BY REC NETWORKS**

*This list is intended to detail the distant translators
and the markets they serve.*

*Translators shown are ones where the
primary station is at least 400km
from the translator.*

88.1	W201BQ	Ottawa	IL	Educational Media Foundation
88.1	NEW-T	Bellingham	WA	Calvary Chapel of Twin Falls, Inc.
88.1	K201DX	Walla Walla	WA	Educational Media Foundation
88.1	NEW-T	Jennings	LA	Calvary Chapel of Twin Falls, Inc.
88.1	NEW-T	Lovelock	NV	Calvary Chapel of Twin Falls, Inc.
88.1	W201AW	Kankakee	IL	American Family Association
88.1	K201CE	Worthington	MN	American Family Association
88.1	W201BE	Buffalo	NY	Calvary Chapel of Twin Falls
88.1	W201BS	Utica	NY	Pensacola Christian College
88.1	NEW-T	Port Angeles	WA	Calvary Chapel of Twin Falls, Inc.
88.1	K201DU	Vail	CO	Educational Media Foundation
88.1	W201BJ	Athens	GA	Calvary Chapel of Twin Falls, Inc.
88.1	NEW-T	Tulare	CA	Paulino Bernal Evangelism
88.1	NEW-T	Kalispell	MT	Calvary Chapel of Twin Falls, Inc.
88.1	K201EO	Boise	ID	Pensacola Christian College
88.1	K201CJ	Ottumwa	IA	American Family Association
88.1	W201BL	Jacksonville	IL	Bible Broadcasting Network, Inc.
88.1	K201EQ	Gold Beach	OR	Calvary Chapel of Twin Fall, Inc.
88.1	K201EM	Olympia	WA	Calvary Chapel of Twin Falls, Inc.
88.1	K201CZ	Pueblo	CO	Family Stations, Inc.
88.1	K201EB	Mount Vernon	WA	Calvary Chapel of Twin Falls, Inc.
88.1	K201EH	Baker City	OR	Calvary Chapel of Twin Falls, Inc.
88.1	K201CR	Corpus Christi	TX	Family Stations, Inc.
88.1	K201DR	Sun Valley	NV	Calvary Chapel of Twin Falls, Inc.
88.1	NEW-T	El Centro	CA	Calvary Chapel of Twin Falls, Inc.
88.1	K201DD	Sunnyside	WA	American Family Association
88.1	K201DM	Aberdeen	WA	Calvary Chapel of Twin Falls
88.1	W201BT	Pontiac	IL	Bible Broadcasting Network, Inc.
88.1	K201DL	Hutchinson	KS	Calvary Chapel of Twin Falls, Inc.
88.1	K201DC	Great Falls	MT	Calvary Chapel of Twin Falls, Inc.
88.1	W201BF	Cape May	NJ	Pensacola Christian College
88.1	NEW-T	Woodward	OK	Calvary Chapel of Twin Falls, Inc.
88.1	K201DM	Aberdeen	WA	Calvary Chapel of Twin Falls, Inc.
88.1	NEW-T	Somerset	KY	Educational Media Foundation
88.1	K201EA	Grangeville	ID	Calvary Chapel of Twin Falls, Inc.
88.1	K201DP	St. George	UT	Calvary Chapel of Twin Falls, Inc.
88.1	W201CC	Buford	GA	Calvary Chapel of Twin Falls, Inc.
88.1	K201CW	Moab	UT	Calvary Chapel of Twin Falls, Inc.
88.1	W201BZ	Mansfield	PA	Pensacola Christian College, Inc.
88.1	NEW-T	Edgemont	CO	Educational Media Foundation
88.1	K201AI	Roseburg, etc.	OR	Family Stations, Inc.
88.1	NEW-T	Burlington	CO	Calvary Chapel of Twin Falls, Inc.
88.1	K201EI	Fort Smith	AR	Educational Media Foundation
88.1	NEW-T	Edgemont	CO	Way-FM Media Group, Inc.
88.1	NEW-T	Baldwin	MI	Calvary Chapel of Twin Falls, Inc.

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88.1	W201BO	Vincennes	IN	Bible Broadcasting Network, Inc.
88.1	NEW-T	Elk Mountain	WY	Calvary Chapel of Twin Falls, Inc.
88.1	K201DW	Gallup	NM	Calvary Chapel of Twin Falls, Inc.
88.1	W201BV	Middletown	NY	Pensacola Christian College
88.1	K201EN	Everett	WA	Calvary Chapel of Twin Falls, Inc.
88.1	NEW-T	Holbrook	AZ	Paulino Bernal Evangelism
88.1	W201AU	Savannah	GA	Family Stations, Inc.
88.1	NEW-T	Canyonville	OR	Calvary Chapel of Twin Falls, Inc.
88.1	K201EG	Ketchikan	AK	Educational Media Foundation
88.1	K201EL	Gardendale	TX	Calvary Chapel of Twin Falls, Inc.
88.1	NEW-T	Greenwater	WA	Calvary Chapel of Costa Mesa, Inc.
88.1	K201EB	Mount Vernon	WA	Calvary Chapel of Twin Falls, Inc.
88.1	K201ES	Ripley	CA	Calvary Chapel of Costa Mesa, Inc.
88.1	NEW-T	Forks	WA	Calvary Chapel of Twin Falls, Inc.
88.1	K201DJ	Athens	TX	Bible Broadcasting Network, Inc.
88.1	K201CV	Lufkin	TX	Bible Broadcasting Network, Inc.
88.1	K201EJ	Holts Summit	MO	Educational Media Foundation
88.1	W201BY	Rocky Mount	NC	Pensacola Christian College
88.1	NEW-T	Culbertson	MT	Calvary Chapel of Twin Falls, Inc.
88.1	NEW-T	Arapaho	OK	Calvary Chapel of Twin Falls, Inc.
88.1	K201ET	Port Townsend	WA	Calvary Chapel of Twin Falls, Inc.
88.1	W201BN	Milledgeville	GA	Calvary Chapel of Twin Falls, Inc.
88.1	K201CX	Waldport	OR	Calvary Chapel of Twin Falls, Inc.
88.1	K201DT	Centralia	WA	Educational Media Foundation
88.1	K201DZ	Port Bolivar	TX	Educational Media Foundation
88.1	NEW-T	Lafayette	LA	Calvary Chapel of Twin Falls, Inc.
88.1	NEW-T	Williston	ND	Calvary Chapel of Twin Falls, Inc.
88.1	W201BK	Biloxi	MS	Calvary Chapel of Twin Falls
88.1	W201BV	Middletown	NY	Pensacola Christian College
88.1	K201CK	Klamath Falls	OR	Educational Media Foundation
88.1	NEW-T	Alpine	CA	Calvary Chapel of Twin Falls, Inc.
88.1	K201CQ	Prescott	AZ	Family Stations, Inc.
88.1	K201DF	San Luis Obispo	CA	Calvary Chapel of Twin Falls
88.3	K202CM	Corvallis	OR	Family Stations, Inc.
88.3	K202CG	Jonesboro	AR	Family Stations, Inc.
88.3	K202CL	Grand Island	NE	Educational Media Foundation
88.3	NEW-T	Brainerd	MN	Calvary Chapel of Twin Falls, Inc.
88.3	W202BA	Warner Robins	GA	Calvary Chapel of Twin Falls, Inc.
88.3	W202BC	Macon	GA	Calvary Chapel of Twin Falls, Inc.
88.3	W202AX	Greenville	SC	Family Stations, Inc.
88.3	K202CW	Visalia	CA	Pensacola Christian College
88.3	K202CN	Missoula	MT	Educational Media Foundation
88.3	K202CE	Palestine	TX	Bible Broadcasting Network, Inc.
88.3	W202AW	Sandusky	OH	Bible Broadcasting Network, Inc.
88.3	W202BD	Hazleton	PA	Pensacola Christian College
88.3	NEW-T	Fort Collins	CO	Educational Media Foundation
88.3	W202AV	White Hall	IL	Moody Bible Institute of Chicago
88.3	NEW-T	Murrieta	CA	Calvary Channel of Costa Mesa, Inc.
88.3	W202BF	Effingham	IL	Bible Broadcasting Network, Inc.
88.3	K202BY	Enid	OK	Family Stations, Inc.
88.3	K202CP	Stillwater	OK	Pensacola Christian College
88.3	K202CY	Norfolk	NE	Educational Media Foundation
88.5	K203CF	Crescent	OK	Pensacola Christian College
88.5	NEW-T	Burns	OR	Calvary Chapel of Twin Falls, Inc.
88.5	W203AT	Albany	GA	Family Stations, Inc.
88.5	K203CE	Springdale	AR	Bible Broadcasting Network, Inc.
88.5	NEW-T	Fairbanks	AK	Educational Media Foundation
88.5	W203AS	Wabash	IN	Pensacola Christian College
88.5	NEW-T	Golden Lakes	FL	Calvary Chapel of Twin Falls, Inc.
88.5	NEW-T	Blue River	OR	Calvary Chapel of Twin Falls, Inc.
88.5	W203AL	Duluth	MN	Family Stations, Inc.
88.5	W203AN	Flora	IL	American Family Association
88.5	W203AV	Oshkosh	WI	Pensacola Christian College, Inc.
88.5	NEW-T	Alamogordo	NM	Calvary Chapel of Costa Mesa, Inc.
88.5	NEW-T	London	KY	Calvary Chapel of Twin Falls, Inc.
88.5	NEW-T	Fort Morgan	CO	Calvary Chapel of Twin Falls, Inc.
88.5	NEW-T	Sterling	CO	Calvary Chapel of Twin Falls, Inc.
88.5	K203CM	Sanger	CA	Educational Media Foundation
88.5	K203CK	Bismarck	ND	Bible Broadcasting Network, Inc.
88.5	NEW-T	Caro	MI	Calvary Chapel of Twin Falls, Inc.
88.5	NEW-T	Burney	CA	Calvary Chapel of Twin Falls, Inc.
88.5	K203BS	Victoria	TX	American Family Association

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88.5	K203BS	Victoria	TX	American Family Association
88.5	K203CI	Cave Junction	OR	Family Stations, Inc.
88.5	NEW-T	Creston	IA	Calvary Chapel of Twin Falls, Inc.
88.5	NEW-T	Walton	OR	Calvary Chapel of Twin Falls, Inc.
88.5	NEW-T	Burney	CA	Calvary Chapel of Twin Falls, Inc.
88.5	K203BT	Eugene	OR	Calvary Chapel of Twin Falls, Inc.
88.5	K203CQ	Tooele	UT	Calvary Chapel of Twin Falls, Inc.
88.5	K203CC	Lockhart	TX	American Family Association
88.5	W203AR	Benton Harbor	MI	Educational Media Foundation
88.5	W203AJ	Michigan City	IN	American Family Association
88.5	NEW-T	Norwalk	CT	Calvary Chapel of Twin Falls, Inc.
88.7	W204AX	Morgantown	WV	Bible Broadcasting Network, Inc.
88.7	K204CZ	Kennewick	WA	Calvary Chapel of Costa Mesa, Inc.
88.7	NEW-T	Missoula	MT	Calvary Chapel of Twin Falls, Inc.
88.7	K204CV	Scottsbluff	NE	Educational Media Foundation
88.7	K204BU	Silver City	NM	Faith Communications Corporation
88.7	NEW-T	Hot Springs	AR	Educational Media Foundation
88.7	W204AZ	Madison Heights	VA	Calvary Chapel of Twin Falls, Inc.
88.7	K204CX	Hamilton	MT	Calvary Chapel of Twin Falls, Inc.
88.7	K204CE	Clifton	AZ	Moody Bible Institute of Chicago
88.7	NEW-T	San Antonio	TX	Calvary Chapel of Twin Falls, Inc.
88.7	W204BD	Rochelle	IL	Pensacola Christian College
88.7	K204CT	Manhattan	KS	Bible Broadcasting Network, Inc.
88.7	NEW-T	Boones Mill	VA	Calvary Chapel of Twin Falls, Inc.
88.7	K204CU	Cheyenne	WY	Calvary Chapel of Twin Falls, Inc.
88.7	K204DE	Amana	IA	Family Stations, Inc.
88.7	W204AY	Salisbury	MD	Pensacola Christian College
88.7	K204CA	Tahlequah	OK	Moody Bible Institute of Chicago
88.7	NEW-T	Yankee Hill	CA	Calvary Chapel of Costa Mesa, Inc.
88.7	K204BZ	Fairfield	IA	American Family Association
88.7	K204CQ	Albuquerque	NM	Pensacola Christian College
88.7	K204CJ	Kalispell	MT	Stockton Christian Life College, Inc.
88.7	NEW-T	Chinook	WA	Calvary Chapel of Costa Mesa, Inc.
88.7	NEW-T	Banning	CA	Paulino Bernal Evangelism
88.7	NEW-T	Hanford	WA	Calvary Chapel of Twin Falls, Inc.
88.7	K204DA	Laramie	WY	Educational Media Foundation
88.7	NEW-T	Laveen	AZ	Educational Media Foundation
88.7	W204AR	Bellefonte	PA	Family Stations, Inc.
88.7	K204CS	Poplar Bluff	MO	Bible Broadcasting Network, Inc.
88.7	K204CH	Bishop	CA	Calvary Chapel of Twin Falls, Inc.
88.7	K204CG	Plainview	TX	Family Stations, Inc.
88.7	K204CN	Branson	MO	Calvary Chapel of Twin Falls
88.7	K204DC	Havilah	CA	Calvary Chapel of Twin Falls, Inc.
88.7	W204BB	Schoolcraft	MI	Family Stations, Inc.
88.7	K204BY	St. George	UT	American Family Association
88.7	NEW-T	Talmage	CA	Calvary Chapel of Twin Fall, Inc.
88.7	K204BX	Ada	OK	American Family Association
88.7	K204CM	Enterprise	KS	American Family Association
88.7	W204AV	Sanford	NC	American Family Association
88.7	W218AZ	Van Wert	OH	Pensacola Christian College, Inc.
88.7	NEW-T	Lakewood	CA	Lifetalk Broadcasting Association
88.7	NEW-T	Eau Claire	WI	Calvary Chapel of Twin Falls, Inc.
88.7	K204CY	Medford	OR	Pensacola Christian College
88.7	W204BC	Warsaw	IN	Pensacola Christian College, Inc.
88.9	K205DC	Sioux City	IA	Educational Media Foundation
88.9	NEW-T	Granite Falls	WA	Calvary Chapel of Twin Falls, Inc.
88.9	W205AP	Pascagoula	MS	Family Stations, Inc.
88.9	K205CL	Shepherd	MT	Family Stations, Inc.
88.9	K205CZ	Marshalltown	IA	Bible Broadcasting Network, Inc.
88.9	K205CT	Emporia	KS	Calvary Chapel of Twin Falls
88.9	NEW-T	Fall City	WA	Calvary Chapel of Twin Falls, Inc.
88.9	W205AS	Gulf Breeze	FL	Calvary Chapel of Twin Falls, Inc.
88.9	W205BG	Springfield	IL	Educational Media Foundation
88.9	NEW-T	La Mirada	CA	LifeTalk Broadcasting Association
88.9	K205DB	Klamath Falls	OR	Calvary Chapel of Twin Falls, Inc.
88.9	K205CS	Topeka	KS	Calvary Chapel of Twin Falls
88.9	W205AN	Steubenville	OH	American Family Association
88.9	NEW-T	New Albany	IN	Educational Media Foundation
88.9	K205CS	Topeka	KS	Calvary Chapel of Twin Falls, Inc.
88.9	K205CS	Topeka	KS	Calvary Chapel of Twin Falls, Inc.
88.9	K205DF	Enumclaw	WA	Calvary Chapel of Twin Falls, Inc.
88.9	NEW-T	St. Joseph	MO	Pensacola Christian College

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88.9	W205BF	Decatur	IL	Educational Media Foundation
88.9	NEW-T	Butte	MT	Pensacola Christian College, Inc.
88.9	K205CY	Tillamook	OR	Educational Media Foundation
88.9	K205CK	Grand Junction	CO	Calvary Chapel of Twin Falls, Inc.
88.9	K205DH	Shelton	WA	Calvary Chapel of Twin Falls, Inc.
88.9	K205DD	Bremerton	WA	Calvary Chapel of Twin Falls, Inc.
88.9	W205AY	Charlottesville	VA	Calvary Chapel of Twin Falls
88.9	W205AZ	Kankakee	IL	Pensacola Christian College
88.9	K205DA	Clovis	NM	Pensacola Christian College
88.9	NEW-T	St. Joseph	MO	Educational Media Foundation
88.9	W205BH	Port Huron	MI	Pensacola Christian College
88.9	NEW-T	Yucca Valley	CA	Paulino Bernal Evangelism
88.9	NEW-T	Glide	OR	Calvary Chapel of Costa Mesa, Inc.
88.9	K205DE	Alamogordo	NM	Paulino Bernal Evangelism
88.9	W205BJ	Charleston	SC	Calvary Chapel of Twin Falls, Inc.
88.9	NEW-T	Cape George	WA	Calvary Chapel of Twin Falls, Inc.
88.9	W205AT	Hamler	OH	Calvary Chapel of Twin Falls, Inc.
88.9	W205BB	Bedford	IN	Bible Broadcasting Network, Inc.
88.9	K205CI	Phoenix	AZ	Family Stations, Inc.
88.9	W205AY	Charlottesville	VA	Calvary Chapel of Twin Falls
88.9	W205BA	Jamestown	NY	Bible Broadcasting Network, Inc.
88.9	W205BD	Salem	IL	Bible Broadcasting Network, Inc.
88.9	W205BC	Taylorville	IL	Bible Broadcasting Network, Inc.
88.9	W205BK	Ithaca	NY	Pensacola Christian College
89.1	K206BK	Susanville	CA	Calvary Chapel of Twin Falls, Inc.
89.1	K206BW	Des Moines	IA	Calvary Chapel of Twin Falls, Inc.
89.1	NEW-T	Chinook	WA	Calvary Chapel of Twin Falls, Inc.
89.1	NEW-T	Mount Vernon	WA	Calvary Chapel of Costa Mesa, Inc.
89.1	NEW-T	Thayer	KS	Calvary Chapel of Twin Falls, Inc.
89.1	NEW-T	Barstow	CA	Paulino Bernal Evangelism
89.1	W206AL	State College	PA	Pensacola Christian College
89.1	W206AT	Savannah	GA	Calvary Chapel of Twin Falls
89.1	K206BF	Fort Dodge	IA	Family Stations, Inc.
89.1	NEW-T	La Presa	CA	Calvary Chapel of Twin Falls, Inc.
89.1	K206BL	Dreamland	AZ	American Family Association
89.1	W206AH	Eau Claire	WI	Family Stations, Inc.
89.1	K206BS	Laramie	WY	Calvary Chapel of Twin Falls, Inc.
89.1	W206AM	Pana	IL	American Family Association
89.1	NEW-T	Fruitland	MD	Calvary Chapel of Twin Falls, Inc.
89.1	W206AR	Florence	SC	Calvary Chapel of Twin Falls, Inc.
89.1	NEW-T	Mt. Laguna	CA	Calvary Chapel of Twin Falls, Inc.
89.1	NEW-T	Issaquah	WA	Living Way Ministries
89.1	NEW-T	Nevada	MO	Calvary Chapel of Twin Falls, Inc.
89.1	K206BV	Watford City	ND	American Family Association
89.1	W206AQ	Plattsburgh	NY	Educational Media Foundation
89.1	NEW-T	Chester	CA	Calvary Chapel of Twin Falls, Inc.
89.1	NEW-T	Austin	TX	Calvary Chapel of Twin Falls, Inc.
89.1	W206AI	Lake Villa	IL	Calvary Chapel of Twin Falls, Inc.
89.1	K206CB	Barstow	CA	Paulino Bernal Evangelism
89.1	K206BT	Fredonia	AZ	American Family Association
89.1	NEW-T	Columbia	SC	Calvary Chapel of Twin Falls, Inc.
89.3	W207BB	Buffalo	NY	Pensacola Christian College
89.3	NEW-T	Salem	OR	Shepherd Communications, Inc.
89.3	K207CM	Red Bluff	CA	Paulino Bernal Evangelism, Inc.
89.3	K207BZ	Odessa	TX	Calvary Chapel of Twin Falls
89.3	NEW-T	Water Mill	NY	Educational Media Foundation
89.3	K207CT	Lakehead	CA	Calvary Chapel of Twin Falls, Inc.
89.3	NEW-T	Imperial	CA	Paulino Bernal Evangelism
89.3	K207CH	Twisp	WA	Calvary Chapel of Twin Falls, Inc.
89.3	W207BA	Hammett	PA	Calvary Chapel of Twin Falls, Inc.
89.3	NEW-T	Goshen	IN	World Radio Network, Inc.
89.3	W207AW	Cuthbert	GA	American Family Association
89.3	K207CS	Wenatchee	WA	Calvary Chapel of Twin Falls, Inc.
89.3	K207CB	Aberdeen	WA	Educational Media Foundation
89.3	K207CD	Hilo	HI	Educational Media Foundation
89.3	K207BT	Joplin	MO	Calvary Chapel of Twin Falls, Inc.
89.3	K207BY	Chadron	NE	American Family Radio
89.3	NEW-T	Taft	CA	Paulino Bernal Evangelism
89.3	K207CA	Bismarck	ND	Educational Media Foundation
89.3	K207BS	Durant	OK	American Family Association
89.3	K207BO	Newport	OR	Family Stations, Inc.
89.3	NEW-T	Aberdeen	WA	Educational Media Foundation

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89.3	K207CA	Bismarck	ND	Educational Media Foundation
89.3	K207CE	Cottonwood	CA	Calvary Chapel of Twin Falls, Inc.
89.3	NEW-T	Eastport	FL	Calvary Chapel of Twin Falls, Inc.
89.3	K207CP	South Lake Tahoe	NV	Calvary Chapel of Twin Falls, Inc.
89.3	K207CJ	Las Cruces	NM	Calvary Chapel of Twin Falls
89.3	K207BJ	Norman	OK	American Family Association
89.3	K207BX	Eugene	OR	Pensacola Christian College
89.3	W207AX	Burlington	VT	Family Stations, Inc.
89.3	NEW-T	The Dalles	OR	Calvary Chapel of Twin Falls, Inc.
89.3	NEW-T	Port Angeles	WA	Educational Media Foundation
89.3	K207CG	Valentine	NE	American Family Association
89.5	K208DE	Tipton	CA	Paulino Bernal Evangelism
89.5	NEW-T	Merced	CA	Paulino Bernal Evangelism
89.5	NEW-T	Lewiston	ID	Calvary Chapel of Twin Falls, Inc.
89.5	NEW-T	Porterville	CA	Paulino Bernal Evangelism
89.5	NEW-T	Walcott	WY	Calvary Chapel of Twin Falls, Inc.
89.5	K208DH	Bushland	TX	Calvary Chapel of Twin Falls, Inc.
89.5	W208AM	Batavia	NY	American Family Association
89.5	NEW-T	San Jose	FL	Educational Media Foundation
89.5	K208CF	Midland	TX	American Family Association
89.5	NEW-T	Napa	CA	Calvary Chapel of Twin Falls, Inc.
89.5	K208DF	Winslow	AZ	Calvary Chapel of Twin Falls, Inc.
89.5	K208CK	Scottsbluff	NE	Bible Broadcasting Network, Inc.
89.5	NEW-T	Sandia	NM	Educational Media Foundation
89.5	K208CU	Kailua Kona	HI	Calvary Chapel of Twin Falls, Inc.
89.5	K208CQ	Arkadelphia	AR	Educational Media Foundation
89.5	NEW-T	Kalispell	MT	Educational Media Foundation
89.5	K208CZ	Sonora	CA	Calvary Chapel of Twin Falls, Inc.
89.5	K208CM	Lihue	HI	Educational Media Foundation
89.5	K208CG	Oklahoma City	OK	Calvary Chapel
89.5	NEW-T	Brawley	CA	Paulino Bernal Evangelism
89.5	NEW-T	New Philadelphia	OH	Bible Broadcasting Network, Inc.
89.7	NEW-T	Evanston	WY	Calvary Chapel of Twin Falls, Inc.
89.7	K209BS	Lafayette	LA	Family Stations, Inc.
89.7	NEW-T	Winnemucca	NV	Calvary Chapel of Costa Mesa, Inc.
89.7	NEW-T	Elmira	NY	Pensacola Christian College
89.7	NEW-T	Wheat Ridge	CO	WAY-FM Media Group, Inc.
89.7	K209CR	Topeka	KS	Pensacola Christian College
89.7	K209BX	Del Rio	TX	American Family Association
89.7	NEW-T	Centralia	WA	Pensacola Christian College, Inc.
89.7	W209BE	Findlay	OH	Educational Media Foundation
89.7	NEW-T	Berwick	IA	Educational Media Foundation
89.7	NEW-T	Fort Dodge	IA	Pensacola Christian College
89.7	K209CQ	Byron	CA	Calvary Chapel of Twin Falls, Inc.
89.7	NEW-T	McFarland	CA	Paulino Bernal Evangelism
89.7	W209BB	Port Chester	NY	Christian Broadcasting Company
89.7	W209AS	Meridian	MS	Family Stations, Inc.
89.7	K209CY	Blythe	CA	Calvary Chapel of Twin Falls, Inc.
89.7	NEW-T	Elk City	OK	Calvary Chapel of Twin Falls, Inc.
89.7	K209CD	Arkansas City	KS	American Family Association
89.7	K209CS	Casper	WY	Pensacola Christian College
89.7	K209CX	Grand Island	NE	Pensacola Christian College
89.7	K209CF	Kearney	NE	Bible Broadcasting Network, Inc.
89.7	K209BP	Stillwater	OK	American Family Association
89.7	W209AY	Jasper	IN	Bible Broadcasting Network, Inc.
89.7	W209AX	Fairmont	WV	Bible Broadcasting Network, Inc.
89.7	K209BQ	Amana	IA	Family Stations, Inc.
89.7	W209BC	Wakelee	MI	Family Stations, Inc.
89.7	W209AU	Galena	IL	Moody Bible Institute of Chicago
89.7	K209CJ	Tooele	UT	Educational Media Foundation
89.7	K209CM	Hannibal	MO	Pensacola Christian College
89.7	NEW-T	St. Francis	MN	Lifetalk Broadcasting Association
89.7	K209BL	Great Bend	KS	American Family Association
89.7	K209CW	Buttonwillow	CA	Paulino Bernal Evangelism
89.7	K209BD	Las Cruces	NM	The Moody Bible Institute of Chicago
89.7	K209BU	Montevideo	MN	American Family Association
89.7	K209CR	Topeka	KS	Pensacola Christian College, Inc.
89.7	NEW-T	Golden	CO	Educational Media Foundation
89.7	W209AW	Fort Wayne	IN	Pensacola Christian College
89.7	NEW-T	Delano	CA	Paulino Bernal Evangelism
89.7	K209BH	Hays	KS	American Family Association
89.7	K209CG	Kenai	AK	Calvary Chapel of Twin Falls, Inc.

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89.7	K209CV	Prescott	AR	American Family Association
89.7	NEW-T	Aberdeen	WA	Calvary Chapel of Costa Mesa, Inc.
89.9	NEW-T	Atchison	AS	The University of Kansas
89.9	K210BF	Butte	MT	Family Stations, Inc.
89.9	K210CD	Stratton Canyon	AZ	Pensacola Christian College, Inc.
89.9	K210BZ	Phoenix	AZ	Calvary Chapel of Costa Mesa, Inc.
89.9	NEW-T	Cheyenne	WY	Educational Media Foundation
89.9	W210AZ	Vincennes	IN	American Family Association
89.9	NEW-T	Bellingham	WA	Calvary Chapel of Costa Mesa, Inc.
89.9	W210BG	Ashland	OH	Bible Broadcasting Network, Inc.
89.9	K210CF	Kodiak	AK	Educational Media Foundation
89.9	K210BT	Sparks	NV	Calvary Chapel of Twin Falls, Inc.
89.9	K210BZ	Phoenix	AZ	Calvary Chapel of Costa Mesa, Inc.
89.9	NEW-T	Kihei	HI	Calvary Chapel of Costa Mesa, Inc.
89.9	W210BC	Louisville	KY	Pensacola Christian College
89.9	W210BF	Elkhart	IN	Calvary Chapel of Costa Mesa, Inc.
89.9	NEW-T	Mesa	AZ	Calvary Chapel of Costa Mesa, Inc.
89.9	NEW-T	Gillette	WY	Educational Media Foundation
89.9	K210BY	Klamath Falls	OR	Pensacola Christian College
89.9	W210BB	Benton Harbor	MI	Pensacola Christian College
89.9	K210CJ	Devils Lake	ND	American Family Association
89.9	K210BV	Cabool	MO	American Family Association
89.9	W210BD	Jackson	AL	Calvary Chapel of Costa Mesa, Inc.
89.9	NEW-T	Lawton	OK	Educational Media Foundation
90.1	K211CY	Spearfish	SD	American Family Radio
90.1	K211DM	Laramie	WY	Pensacola Christian College, Inc.
90.1	K211CT	Bend	OR	Calvary Chapel of Twin Falls, Inc.
90.1	K211DG	Firebaugh	CA	Calvary Chapel of Twin Falls
90.1	W211AT	Washington	IN	Bible Broadcasting Network, Inc.
90.1	K211DD	Yuma	AZ	Calvary Chapel of Twin Falls
90.1	K211DO	Kailua	HI	Calvary Chapel of Twin Falls, Inc.
90.1	K211CU	Aberdeen	SD	American Family Association
90.1	W211AZ	Natchez	MS	Pensacola Christian College
90.1	NEW-T	Lamar	CO	Calvary Chapel of Twin Falls, Inc.
90.1	W211AW	Evansville	IN	Pensacola Christian College
90.1	K211CA	Olympia	WA	Family Stations Inc.
90.1	K211CE	Raton	NM	American Family Association
90.1	W211AX	Mount Pleasant	SC	Pensacola Christian College
90.1	K211DC	Pahrump	NV	Calvary Chapel of Twin Falls, Inc.
90.1	K211DQ	Kauai	HI	Calvary Chapel of Twin Falls, Inc.
90.1	NEW-T	Kailua	HI	Living Way Ministries, Inc.
90.1	K211CX	Madrone, etc.	CA	Calvary Chapel of Twin Falls, Inc.
90.1	K211BT	Hamilton	MT	Faith Communicationa Corporation
90.1	NEW-T	Lockport	NY	Family Stations, Inc.
90.1	W211AY	Menomonie	WI	Calvary Chapel of Twin Falls
90.1	W211AR	Watertown	NY	Bible Broadcasting Network, Inc.
90.1	K211DE	Sioux Falls	SD	Calvary Chapel of Twin Falls
90.3	K212AP	Willits	CA	Calvary Chapel of Twin Falls, Inc.
90.3	W216BG	Wilkes-Barre	PA	Pensacola Christian College
90.3	K212EO	El Paso	TX	Calvary Chapel of Twins Falls, Inc.
90.3	W212BE	La Salle	IL	Pensacola Christian College, Inc.
90.3	K212DC	Bozeman	MT	Educational Media Foundation
90.3	K212EP	Landers	CA	Calvary Chapel of Twin Falls, Inc.
90.3	K212DB	Moses Lake	WA	Calvary Chapel of Twin Falls, Inc.
90.3	W212BD	Charleston	WV	Educational Media Foundation
90.3	K212ER	Helena	MT	Educational Media Foundation
90.3	NEW-T	Helena	MT	Educational Media Foundation
90.3	K212BD	Barstow	CA	Calvary Chapel of Twin Falls, Inc.
90.3	NEW-T	Clearlake	CA	Calvary Chapel of Twin Falls, Inc.
90.3	K212EX	Pocatello	ID	Educational Media Foundation
90.3	K212EO	El Paso	TX	Calvary Chapel of Twins Falls
90.3	W212AY	Decatur	IL	Calvary Chapel of Twin Falls
90.3	K212EK	Victorville	CA	Calvary Chapel of Twin Falls, Inc.
90.3	W212AZ	Pinehurst	NC	American Family Association
90.3	K212EK	Victorville	CA	Calvary Chapel of Twin Falls, Inc.
90.3	W212AW	Mount Airy	NC	American Family Radio
90.3	W212BB	Wausau	WI	Pensacola Christian College, Inc.
90.3	K212BE	Rapid City	SD	Family Stations, Inc.
90.3	K212BH	Pierre	SD	Moody Bible Institute of Chicago
90.3	K212EF	Las Vegas	NM	American Family Association
90.3	W212AY	Decatur	IL	Calvary Chapel of Twin Falls, Inc.
90.3	K212EY	Sandpoint	ID	Calvary Chapel of Twin Falls, Inc.

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90.3	K212EU	Big Spring	TX	American Family Association
90.3	K212EV	Washburn	AR	Educational Media Foundation
90.3	NEW-T	Cheyenne	WY	Pensacola Christian College, Inc.
90.3	K212EW	Roswell	NM	Calvary Chapel of Twin Falls, Inc.
90.3	K212EM	Holbrook	AZ	American Family Association
90.3	K212EJ	Scottsbluff	NE	Calvary Chapel of Twin Falls
90.3	W212AP	Notasulga, etc.	AL	Family Stations, Inc.
90.3	NEW-T	Bend	CA	Calvary Chapel of Twin Falls, Inc.
90.3	NEW-T	Lancaster	CA	Paul Bernal Evangelism
90.3	K212BG	Clovis	NM	Bible Broadcasting Network, Inc.
90.3	K212EL	Enid	OK	Bible Broadcasting Network, Inc.
90.3	NEW-T	Temple City	CA	Educational Media Foundation
90.3	NEW-T	Bushland	TX	Calvary Chapel of Costa Mesa, Inc.
90.5	W213AT	Erie	PA	Pensacola Christian College
90.5	W213AV	Meridian	MS	Educational Media Foundation
90.5	K213BT	Albuquerque	NM	Family Stations, Inc.
90.5	K213CC	Weatherford	OK	American Family Association
90.5	NEW-T	Williston	ND	Educational Media Foundation
90.5	K213AR	Las Cruces, etc.	CA	Calvary Chapel of Twin Falls, Inc.
90.5	K213CT	Bena	CA	Calvary Chapel of Costa Mesa, Inc.
90.5	K213CH	Ridgecrest	CA	Family Stations, Inc.
90.5	W213AN	Bristol	VA	American Family Association
90.5	W213AM	Newburgh	NY	Family Stations, Inc.
90.5	W213AW	Charleston	IL	VCY America, Inc.
90.5	NEW-T	Pine Grove	CA	Calvary Chapel of Twin Falls, Inc.
90.5	NEW-T	Burlington	VT	Educational Media Foundation
90.5	K213CK	Montrose	CO	Calvary Chapel of Twin Falls, Inc.
90.5	K213CM	Gallup	NM	Educational Media Foundation
90.5	NEW-T	Golf Manor	OH	Educational Media Foundation
90.5	NEW-T	Yankee Hill	CA	Calvary Chapel of Twin Falls, Inc.
90.5	NEW-T	O'Donnell	TX	Educational Media Foundation
90.5	K213BQ	Nash	ND	The Moody Bible Institute of Chicago
90.5	K213CR	King City	CA	Paulino Bernal Evangelism
90.5	K211DM	Laramie	WY	Pensacola Christian College, Inc.
90.5	K213BY	Astoria	OR	World Radio Network, Inc.
90.5	K213CF	Grants Pass	OR	Calvary Chapel of Twin Falls, Inc.
90.5	K213CP	Pleasant Grove	UT	Educational Media Foundation
90.7	W214AS	Waleska	GA	Calvary Chapel of Twin Falls
90.7	K214CL	Coos Bay	OR	Calvary Chapel of Twin Falls, Inc.
90.7	K214CZ	Manhattan	KS	Pensacola Christian College
90.7	K214CW	Coalinga	CA	Calvary Chapel of Twin Falls
90.7	NEW-T	Oroville	CA	Paulino Bernal Evangelism
90.7	K214CF	Baker	OR	American Family Association
90.7	K214DA	Great Falls	MT	Pensacola Christian College
90.7	K214DF	Golden Valley	MN	Educational Media Foundation
90.7	W214AX	Pottersville	NY	Bible Broadcasting Network, Inc.
90.7	K214CM	Roseburg	OR	Calvary Chapel of Twin Falls, Inc.
90.7	K214CK	Sherman	TX	Bible Broadcasting Network, Inc.
90.7	NEW-T	Raymond	MS	Calvary Chapel of Costa Mesa, Inc.
90.7	K214CT	Mariposa	CA	Calvary Chapel of Twin Falls, Inc.
90.7	K214AD	Missoula, etc.	MT	Rocky Mountain Bible Mission
90.7	K214CY	Maili	HI	Educational Media Foundation
90.7	K214CN	Sonora	CA	Calvary Chapel of Twin Falls, Inc.
90.7	K214CA	Grand Junction	CO	Family Stations, Inc.
90.7	NEW-T	Portales	NM	Educational Media Foundation
90.7	K214CX	Bend	OR	Pensacola Christian College
90.7	W214BC	Greenville	SC	Calvary Chapel of Twin Falls, Inc.
90.7	W214AY	Walker	MI	Calvary Chapel of Twin Falls, Inc.
90.7	NEW-T	Soldotna	AK	Educational Media Foundation
90.7	K214BX	Jamestown	ND	American Family Association
90.7	W214AS	Waleska	GA	Calvary Chapel of Twin Falls
90.7	W214AU	Lockwood Lake	TN	Pensacola Christian College
90.7	K214BP	Cheyenne	WY	Family Stations, Inc.
90.7	K214CQ	Grand Island	NE	Family Stations, Inc.
90.7	K214BH	Gettysburg	SD	The Moody Bible Institute of Chicago
90.7	NEW-T	Pleasant Hill	IA	Educational Media Foundation
90.7	K214DG	Fayetteville	AR	Calvary Chapel of Twin Falls, Inc.
90.7	W214AR	Oswego	NY	Calvary Chapel of Twin Falls
90.9	W215AV	South Portsmouth	KY	Calvary Chapel of Twin Falls, Inc.
90.9	NEW-T	Guymon	OK	Living Way Ministries, Inc.
90.9	W215AW	Morganton	NC	Pensacola Christian College
90.9	K215CC	Santa Maria	CA	Calvary Chapel of Twin Falls, Inc.

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90.9	W215AS	Muskegon	MI	Pensacola Christian College
90.9	NEW-T	D'Iberville	MS	Calvary Chapel of Twin Falls, Inc.
90.9	W215AT	Sandusky	OH	Pensacola Christian College
90.9	NEW-T	Hoyt	KS	Educational Media Foundation
90.9	K215CA	Ridgecrest	CA	Calvary Chapel of Twin Falls, Inc.
90.9	K215CL	Adel	IA	Pensacola Christian College
90.9	NEW-T	Lovelock	NV	Calvary Chapel of Costa Mesa, Inc.
90.9	NEW-T	Hastings	NE	Bible Broadcasting Network, Inc.
90.9	NEW-T	Sitka	AK	Educational Media Foundation
90.9	K215CE	Laramie	WY	Bible Broadcasting Network, Inc.
90.9	K215CK	Willmar	MN	Educational Media Foundation
90.9	K215CP	Mountain Pine	AR	Educational Media Foundation
90.9	NEW-T	Manitowoc	WI	Calvary Chapel of Twin Falls, Inc.
90.9	NEW-T	Steubenville	OH	Pensacola Christian College
90.9	K215CN	Fayetteville	AR	Calvary Chapel of Twin Falls, Inc.
90.9	W215AR	Creston	IA	American Family Association
90.9	K215CI	Alma	KS	Educational Media Foundation
90.9	NEW-T	Glendive	MT	Calvary Chapel of Twin Falls, Inc.
90.9	NEW-T	Mt. Shasta	CA	Calvary Chapel of Twin Falls, Inc.
90.9	K215CO	Midland	TX	Pensacola Christian College
90.9	K215CD	Windom	MN	American Family Association
90.9	K215CG	Helena	MT	Calvary Chapel of Twin Falls, Inc.
90.9	K215CS	Langlois	OR	Calvary Chapel of Twin Falls, Inc.
91.1	NEW-T	Tehachapi	CA	Paulino Bernal Evangelism, Inc.
91.1	NEW-T	Exeter	CA	Calvary Chapel of Twin Falls, Inc.
91.1	K216DP	Hope	AR	Educational Media Foundation
91.1	NEW-T	Eufaula	WA	Calvary Chapel of Twin Falls, Inc.
91.1	NEW-T	Minot	ND	Pensacola Christian College
91.1	NEW-T	Riverside	CA	Pensacola Christian College, Inc.
91.1	K216CV	Scottsdale	AZ	Family Stations, Inc.
91.1	NEW-T	Colton	OR	Calvary Chapel of Costa Mesa, Inc.
91.1	NEW-T	Happy Camp	CA	Calvary Chapel of Twin Falls, Inc.
91.1	K216DF	Kodiak	AK	Calvary Chapel of Twin Falls
91.1	K216DI	Harvey	ND	American Family Radio
91.1	K216DG	Ketchikan	AK	Calvary Chapel of Twin Falls
91.1	NEW-T	Okolona	KY	Calvary Chapel of Twin Falls, Inc.
91.1	NEW-T	Alamogordo	NM	Calvary Chapel of Twin Falls, Inc.
91.1	K216CI	Jackson	WY	The Moody Bible Institute of Chicago
91.1	W216BB	Williamsport	IN	Pensacola Christian College
91.1	K216CO	Lompoc	CA	Calvary Chapel of Twin Falls, Inc.
91.1	K216CX	Yucca Valley	CA	Calvary Chapel of Twin Falls, Inc.
91.1	K216DZ	Running Springs	CA	Calvary Chapel of Costa Mesa, Inc.
91.1	NEW-T	Canon City	CO	Calvary Chapel of Twin Falls, Inc.
91.1	W216BC	Owensboro	KY	Pensacola Christian College
91.1	K216DX	Gallatin Gateway, etc.	MT	Calvary Chapel of Twin Falls, Inc.
91.1	NEW-T	Hemet	CA	Calvary Chapel of Twin Falls, Inc.
91.1	W216AZ	Waynesboro	MS	Calvary Chapel of Twin Falls
91.1	W216BG	Wilkes-Barre	PA	Pensacola Christian College
91.1	NEW-T	Bismarck	ND	Paulino Bernal Evangelism
91.1	W216AU	Martins Ferry	OH	American Family Association
91.1	K216DY	Blythe	CA	Paulino Bernal Evangelism
91.3	W217AK	Salem	IL	American Family Association
91.3	NEW-T	Fort Wayne	IN	Educational Media Foundation
91.3	K217CN	Holbrook	AZ	Calvary Chapel of Twin Falls
91.3	K217CZ	Greenville	TX	Bible Broadcasting Network, Inc.
91.3	W217AM	Effingham	IL	American Family Association
91.3	K217DA	Ridgecrest	CA	Paulino Bernal Evangelism
91.3	NEW-T	Tipton	WY	Calvary Chapel of Twin Falls, Inc.
91.3	W217AT	Plymouth	IN	American Family Association
91.3	K217CY	Oberlin	KS	American Family Association
91.3	K217CU	Amarillo	TX	Pensacola Christian College
91.3	K217CP	Paris	TX	Bible Broadcasting Network, Inc.
91.3	W217AS	Terre Haute	IN	Pensacola Christian College
91.3	NEW-T	Rawlins	WY	Calvary Chapel of Twin Falls, Inc.
91.3	K217CW	Coos Bay	OR	Pensacola Christian College
91.3	W217AQ	Meridian	MS	Calvary Chapel of Twin Falls, Inc.
91.3	NEW-T	Cambon	FL	Calvary Chapel of Costa Mesa, Inc.
91.3	NEW-T	Clinton	OK	Calvary Chapel of Twin Falls, Inc.
91.3	NEW-T	Hastings	NE	Educational Media Foundation
91.3	K217CV	Beloit	KS	American Family Association
91.3	NEW-T	Brownsville	CA	Calvary Chapel of Twin Falls, Inc.
91.3	K217CL	Provo	UT	Stockton Christian Life College, Inc.

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91.3	K217CM	Clayton	NM	American Family Association
91.3	K217CD	Great Falls	MT	Family Stations, Inc.
91.3	K217CJ	Winslow	AZ	American Family Association
91.5	K218CI	Weaverville	CA	Calvary Chapel of Twin Falls, Inc.
91.5	W218AR	Beaufort	NC	American Family Association
91.5	NEW-T	Yakima	WA	Calvary Chapel of Twin Falls, Inc.
91.5	K218CV	Springerville	AZ	Bible Broadcasting Network, Inc.
91.5	W218AY	Laurel	MS	Bible Broadcasting Network, Inc.
91.5	K218CU	Delphi	WA	Living Way Ministries, Inc.
91.5	W218BC	Tullahoma	TN	Bible Broadcasting Network, Inc.
91.5	NEW-T	San Angelo	TX	Pensacola Christian College
91.5	K218CP	Santa Barbara	CA	Calvary Chapel of Twin Falls, Inc.
91.5	K218CR	Florence	OR	Family Stations, Inc.
91.5	K218CI	Weaverville	CA	Calvary Chapel of Twin Falls
91.5	K218CE	Marshalltown	IA	Calvary Chapel of Twin Falls, Inc.
91.5	K218BQ	Brookfield	MO	American Family Association
91.5	W218BD	Southwest Harbor	ME	Calvary Chapel of Twin Falls, Inc.
91.5	K218BZ	Hobbs	NM	American Family Association
91.5	K218CH	Honolulu	HI	Calvary Chapel of Twin Falls
91.5	K218CG	Huntsville	TX	Bible Broadcasting Network, Inc.
91.5	W218AZ	Van Wert	OH	Pensacola Christian College
91.5	K218CF	New Braunfels	TX	Calvary Chapel of Twin Falls, Inc.
91.5	K218CD	Norton	KS	American Family Association
91.5	K218CL	Kalispell	MT	Pensacola Christian College
91.5	K218BT	Darby	MT	Faith Communications Corporation
91.5	NEW-T	Crozet	VA	Calvary Chapel of Twin Falls, Inc.
91.7	K219CN	Poteau	OK	American Family Association
91.7	K219CK	Coos Bay	OR	Family Stations, Inc.
91.7	NEW-T	Elgin	IL	LifeTalk Broadcasting Association
91.7	K219DF	Wasco	CA	American Family Association
91.7	K219DA	Steamboat Springs	CO	West Slope FM
91.7	K219CB	Williston	ND	American Family Association
91.7	K219DD	Bellaire	KS	Appalachian Educational Communication, Co.
91.7	W219CB	Bluffton	SC	Calvary Chapel of Twin Falls, Inc.
91.7	NEW-T	Madera	CA	Paulino Bernal Evangelism
91.7	NEW-T	Yuma	CO	Calvary Chapel of Twin Falls, Inc.
91.7	K219CG	Pinetop	AZ	Calvary Chapel of Twin Falls, Inc.
91.7	W219BT	Wadsworth	OH	Educational Media Foundation
91.7	NEW-T	Bangor	ME	Educational Media Foundation
91.7	K219CQ	Little Rock	AR	Family Stations, Inc.
91.7	K219DH	Grand Junction	CO	Pensacola Christian College
91.7	W219BT	Wadsworth	OH	Educational Media Foundation
91.7	W219BQ	Key West	FL	Calvary Chapel of Twin Falls
91.7	K219DG	Marysville	KS	American Family Association
91.7	K219CB	Williston	ND	American Family Association
91.7	W219BK	Lynchburg	VA	Family Stations, Inc.
91.7	W219CA	Kalamazoo	MI	Pensacola Christian College
91.7	K219CH	Bismarck	ND	Family Stations, Inc.
91.7	K219CP	Trinidad	CO	American Family Association
91.7	K219DB	New Iberia	LA	Bible Broadcasting Network, Inc.
91.7	NEW-T	Burlington	IL	Family Stations, Inc.
91.7	K219CL	Cave Junction	OR	Calvary Chapel of Twin Falls, Inc.
91.7	K219BW	Hastings	NE	American Family Association
91.7	NEW-T	Limon	CO	Calvary Chapel of Twin Falls, Inc.
91.7	NEW-T	Clovis	NM	Educational Media Foundation
91.7	K219CX	Atoka	OK	American Family Association
91.7	K219CO	Nacogdoches	TX	Bible Broadcasting Network, Inc.
91.7	NEW-T	Round Mountain	NV	Calvary Chapel of Twin Falls, Inc.
91.7	K219BX	El Paso, etc.	TX	Family Stations, Inc.
91.7	W219BZ	Lewes	DE	Bible Broadcasting Network, Inc.
91.7	K219CA	Casper	WY	Family Stations, Inc.
91.9	K220GT	Lincoln	NE	Educational Media Foundation
91.9	K220EJ	Idabel	OK	American Family Association
91.9	K220GQ	Pendleton	OR	Paulino Bernal Evangelism
91.9	K220GN	Idaho Falls	ID	Educational Media Foundation
91.9	K220FY	Sitka	AK	Calvary Chapel of Twin Falls
91.9	W220CG	Midland	MI	Pensacola Christian College, Inc.
91.9	K220GF	Las Cruces	NM	Pensacola Christian College
91.9	K220GD	Great Falls	MT	Educational Media Foundation
91.9	NEW-T	Orchards	WA	Living Way Ministries, Inc.
91.9	K220GK	Grangeville	ID	American Family Association

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91.9	K220FZ	Rock Springs	WY	Educational Media Foundation
91.9	NEW-T	Canton	OH	Pensacola Christian College, Inc.
91.9	K220GC	Minot	ND	Educational Media Foundation
91.9	K220EO	Hilo	HI	Moody Bible Institute of Chicago
91.9	K220FP	Elk City	OK	American Family Association
91.9	K220GU	Lost Hills	CA	Paulino Bernal Evangelism
91.9	W220CC	Johnsonville	TN	Calvary Chapel of Twin Falls, Inc.
91.9	K220ED	Philipsburg	MT	The Moody Bible Institute of Chicago
91.9	NEW-T	Kihei	HI	Calvary Chapel of Twin Falls, Inc.
91.9	NEW-T	Butte	MT	Educational Media Foundation
91.9	W220CD	Enka	NC	Calvary Chapel of Twin Falls, Inc.
91.9	NEW-T	Payson	AZ	Calvary Chapel of Twin Falls, Inc.
91.9	K220EV	Lafayette	LA	Bible Broadcasting Network, Inc.
91.9	K220EI	Ogden	UT	Family Stations, Inc.
91.9	NEW-T	Elko	NV	Calvary Chapel of Costa Mesa, Inc.
91.9	K220FS	Grand Island	NE	Bible Broadcasting Network, Inc.
91.9	NEW-T	Carbondale	PA	LifeTalk Broadcasting Association
91.9	K220GC	Minot	ND	Educational Media Foundation
91.9	W220BN	Natchez	MS	Bible Broadcasting Network, Inc.
91.9	NEW-T	Elwood	OR	Calvary Chapel of Twin Falls, Inc.
91.9	W220BZ	Clarksburg	WV	Educational Media Foundation
91.9	W220BY	Charleston	WV	Pensacola Christian College
91.9	K220GO	Tempe	AZ	Calvary Chapel of Twin Falls, Inc.
91.9	K220FX	St. Joseph	MO	Calvary Chapel of Twin Falls
91.9	K220FW	Seldovia	AK	Calvary Chapel of Twin Falls
91.9	K220GR	Los Banos	CA	Paulino Bernal Evangelism
91.9	W220AU	Winchester	VA	Family Stations, Inc.
91.9	K220GM	Placitas	NM	Educational Media Foundation
91.9	NEW-T	Mesa	AZ	Calvary Chapel of Twin Falls, Inc.
91.9	W220BL	Rockford	IL	Pensacola Christian College
91.9	NEW-T	Mitchell	SD	Educational Media Foundation
91.9	K220EU	New Roads	LA	Family Stations, Inc.
91.9	NEW-T	Raymond	MS	Calvary Chapel of Twin Falls, Inc.
91.9	NEW-T	Accomac	VA	Bible Broadcasting Network, Inc.
91.9	K220GG	Great Bend	KS	Educational Media Foundation
91.9	NEW-T	Chehalis	WA	Calvary Chapel of Twin Falls, Inc.
91.9	W220BR	Pinconning	MI	Pensacola Christian College
91.9	W220AR	Dublin	GA	American Family Association
91.9	W220BX	Marietta	PA	Calvary Chapel of Twin Falls, Inc.
91.9	W220BT	Cape May	NJ	Calvary Chapel of Twin Falls
91.9	K220GJ	Borrego Springs	CA	Calvary Chapel of Twin Falls, Inc.
91.9	K220GS	Walla Walla	WA	Pensacola Christian College, Inc.
91.9	W220BD	Roanoke	VA	Family Stations, Inc.
91.9	W220AY	Brattleboro	VT	Moody Bible Institute of Chicago
91.9	W220BP	Wooster	OH	Bible Broadcasting Network, Inc.
91.9	K220GO	Tempe	AZ	Calvary Chapel of Twin Falls, Inc.
91.9	NEW-T	Fall City	WA	Calvary Chapel of Costa Mesa, Inc.
91.9	W220AN	La Grange, etc.	GA	Family Stations, Inc.
91.9	K220GI	Camp Verde	AZ	Calvary Chapel of Twin Falls, Inc.
91.9	K220GL	Pleasanton	TX	Calvary Chapel of Twin Falls, Inc.
91.9	K220FT	Portales	NM	Calvary Chapel of Twin Falls
91.9	NEW-T	Tillamook	OR	Calvary Chapel of Twin Falls, Inc.
91.9	W220CB	Rome	GA	Pensacola Christian College
91.9	K220EX	Ardmore	OK	American Family Association
92.1	K221DU	Enid	OK	Pensacola Christian College
92.3	W222AJ	Beloit	WI	Pensacola Christian College
92.7	W224AX	Lafayette	IN	Pensacola Christian College
93.3	W227AL	Danville	IL	Pensacola Christian College
93.5	NEW-T	Sandy Plains	GA	Calvary Chapel of Twin Falls, Inc.
94.9	NEW-T	Sloan	NV	Calvary Chapel of Twin Falls, Inc.
95.1	K236AA	Cedar Rapids	IA	Family Stations, Inc.
96.1	K241AJ	Palmdale	CA	Family Stations, Inc.
97.1	K246AG	Las Cruces	NM	Family Stations, Inc.
98.7	NEW-T	Truckee	CA	Calvary Chapel of Twin Falls, Inc.
99.5	K258AL	Groom Creek	AZ	Calvary Chapel of Twin Falls, Inc.
99.7	K259AN	Billings	MT	Family Stations, Inc.
99.7	NEW-T	Sacramento	CA	LifeTalk Broadcasting Association
99.7	K259AK	Carson City	NV	Calvary Chapel of Twin Falls, Inc.
100.1	K261BF	Black Butte, etc.	OR	Family Stations, Inc.
101.5	K268AH	Palm Springs	CA	Family Stations, Inc.
102.3	K272DU	Black Eagle	MT	Family Stations, Inc.
102.7	K274AP	La Mesa	NM	Family Stations, Inc.

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102.7	NEW-T	Cazadero	CA	Family Stations, Inc.
103.1	NEW-T	Muscoy	CA	Calvary Chapel of Twin Falls, Inc.
103.9	K280BK	Selma	OR	Calvary Chapel of Twin Falls, Inc.
105.5	K288ET	Running Springs	CA	Calvary Chapel of Twin Falls, Inc.
106.3	K292EX	Reno, Sparks	NV	Calvary Chapel of Twin Falls, Inc.
106.5	NEW-T	Grizzly	OR	Calvary Chapel of Twin Falls, Inc.
107.9	NEW-T	Bass Lake	CA	Calvary Chapel of Twin Falls, Inc.

APPENDIX 'F'
ARIZONA MICRORADIO ASSOCIATION
PROPOSED ARIZONA 99-25 BAND PLAN

IN ELECTRONIC FILING, THE 99-25 BANDPLAN
IS IN A SEPERATE FILE.

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APPENDIX G – ASSIGNMENT OF FREQUENCY COORDINATORS

REC feels that the presence of locally based frequency coordination councils will relieve a major administrative burden from the FCC. REC suggests the Commission solicit interested parties in each of the following regions to become frequency coordinators:

Region	Areas covered
1	Northern New England – States of NH, VT & ME
2	Southern New England – States of MA, CT (except areas within 100km of New York City) and RI.
3	New York – Entire state of New York as well as NJ and CT areas within 100km of New York City.
4	New Jersey – Entire state of New Jersey (except areas within 100km of New York City)
5	Pennsylvania
6	Del-Mar-Va. Entire states of DE, MD, WV and VA as well as Washington DC.
7	Carolina Entire states of NC & SC.
8	Georgia
9	Florida
10	Alabama
11	Mississippi
12	Tennessee & Kentucky
13	Ohio
14	Indiana
15	Michigan (except northern peninsula)
16	Wisconsin including MI northern peninsula.
17	Illinois
18	Minnesota excluding ND & SD border cities.
19	Iowa
20	Nebraska
21	Missouri
22	Arkansas
23	Louisiana
24	Texas except El Paso
25	Oklahoma
26	Kansas
27	Dakotas ND & SD plus MN border cities.
28	Montana
29	Idaho except Northern Idaho (Lewiston)
30	Utah
31	Colorado
32	Arizona including CA/NV Colorado River border cities
33	New Mexico including El Paso, TX
34	Southern California including San Diego, Orange, Imperial, Riverside, San Bernardino, Los Angeles, Kern, Inyo, Santa Barbara, Ventura and San Luis Obispo counties in CA. Clark County, NV
35	Northern CA Counties in CA and NV that are not in district 34.
36	Oregon
37	Washington
38	Alaska
39	Pacific All FCC areas in the Pacific including Hawaii.
40	Caribbean All FCC areas in the Caribbean including PR & VI.