



PUBLIC NOTICE

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WIRELESS TELECOMMUNICATIONS BUREAU ACTION
REGION 55 (NEW YORK – BUFFALO AREA) NPSPAC 800 MHz
REGIONAL PUBLIC SAFETY PLANNING COMMITTEE ANNOUNCES
OPEN APPLICATION FILING WINDOW #5
PR Docket 92-287

The Regional Planning Committee (RPC) Region 55 is conducting a limited window opening to accept applications from public safety agencies which may have found the necessary channel(s) which they believe will meet the required protection criteria in the plan for NPSPAC channels currently at 821-824/866-869 MHz frequency band.

Region 55 will receive applications starting November 1, 2006 and until November 30, 2006. Postmark or equivalent proof of delivery shall be on or within those dates.

- All submissions must contain coverage prediction contour analysis color plots depicting 40, 25 and 5 db μ signal contours for each frequency proposed to be usable within its geographic area of operation.
- Prediction contour studies submitted must be in accordance with Attachment A-*Region 55 Window 5 NPSPAC Channel Application Guidelines*, and Attachment B-*Application for Inclusion in the Region 55 New York-Buffalo Plan for Channels in the 821-824/866-869 MHz Band*.
- All submitted applications must address the proposed usage of the channel(s) found and show non-interference to closest co-channel and adjacent channel users, including channel allotments within Region 55 and adjacent regions where applicable.

Applications will be accepted from qualified eligible entities provided that they are accompanied by documented research data which indicates a high probability that the channel(s) being sought will be in full compliance with all aspects of the Region 55 Plan and all applicable FCC Rules. Applications will be processed in accordance with the existing Region 55 selection matrix.

This process may result in the allocation of a channel or channels to the agencies with the highest score in the evaluation matrix. There is no guarantee that any spectrum will be awarded

to any applicant as a result of the research conducted by such applicant. The Regional Planning Committee assumes no responsibility for any costs incurred by any applicant in the development of an application.

Each application with the required number of copies is to be submitted to the APCO Local Frequency Advisor listed below, according to the location of the transmitter(s). Mark the outside of the submitted application package: “**REGION 55 – WINDOW 5 APPLICATION.**”

APCO – NNY Frequency Advisor

Gary E. Perkins
607 El Mar Drive
Rochester, New York 14616-1035

For further information please contact:

Regional Planning Chairperson

Captain Joseph C. Grube
Cattaraugus County Sheriff’s Office
301 Court Street
Little Valley, New York 14755
(716) 938-9191
jcgrube@cattco.org

Regional Vice-Chairperson

Deputy Director Paul Gajewski
Law Enforcement Communications
74 Franklin Street, Room 239
Buffalo, New York 14202
(716) 858-6227
gajewski@erie.gov

Attachment A

REGION 55 WINDOW 5 NSPAC CHANNEL APPLICATION GUIDELINES

In order to facilitate an improved frequency application process, the following is the prescribed application process, detailing the engineering requirements that need to be addressed. Each new or modified frequency requested by an applicant or existing licensee must strictly adhere to this process and provide required engineering documents.

Checklist of Requirements

- Technical Information Sheet and contact person
 - Region 55 FDR2 (modified) Application for Channel Allotments¹
 - Antenna manufacturer, model, pattern, azimuth, down tilt, and height above ground.
- Copy of existing NPSPAC License to which channels are either being modified or added (if applicable)
- Co-Channel Analysis Consistent with Modeling Parameters (per frequency)
- Adjacent Channel Analysis Consistent with Modeling Parameters (per frequency)
- Sketch of System with a written description

Modeling Parameters & Methods

The technical statement, which presents a detailed description of the system, existing and as proposed, including coverage analysis, shall be presented for Committee review. For reference coverage analysis that determines availability may also be performed by the Region 55 Technical Committee using ComStudy 2.2 (latest version) Radio Propagation Prediction software, with the following parameters:

- Prediction Model: **Okumura-Hata**
- Area Type: **Suburban**
- Land Use Attenuation: **None**, not to be applied
- Mobile Receiver Height: **1.5 meters** above ground level
- Additional Attenuation: **None**
- Terrain Input Resolution: **3 second**
- Terrain Output Resolution: **6-12 second**
- Reliability/Confidence: **Not applicable** in this model (median)
- Study Distance: **115 km** Radius about the proposed site

Each frequency and location to be analyzed shall be modeled by the applicant using the above propagation model, either using ComStudy 2.2 software (latest version), or with other equivalent software. However, all transmitter information must be provided in an input format on standard data media, as described in the Administration Paragraph of this document, from which the sites' technical parameters (listed below) can be imported for use in ComStudy 2.2 software (latest version).

Technical Parameters:

- Unique site name per frequency per site
- Latitude and Longitude in NAD83
- Main HORIZONTAL Lobe ERP in watts
- Frequency in MHz

¹ As an option to facilitate a more rapid review process, an FCC Form 601 in hardcopy and in FCC Electronic Batch File (EBF) format may be submitted in addition to the Region 55 FDR-2 (modified).

- Antenna Above Ground Level in meters (antenna radiation centerline)
- Ground Elevation Above Mean Sea Level in meters
- Modulation Emission
- Actual Transmit Antenna Make & model number, horizontal & vertical patterns², azimuth, gain, and downtilt

Co-Channel Modeling & Analysis

To review the effects of the proposed new or modified selection, a landscape plot on 8.5" x 11.0" with no more than 1" margins shall be provided for each of the co-channel frequencies and locations in a radius of 120-km from each site of the new request. The coverage propagation of each new or modified frequency and location is to be calculated at 5-dBuV/m. This 5-dBuV/m contour shall not overlap any incumbents' calculated 40-dBuV/m contour anywhere within their authorized jurisdictional area, as calculated based on current licenses or Region 55 allotments corresponding to the co-channel entities' areas of operation.

Note: Use of R6602 curves is not acceptable for either new or incumbent licensees.

Each Co-channel analysis plot shall be labeled with:

- Applicant's Name
- Channel number and corresponding frequency in MHz

Co-Channel Package shall consist of:

- A listing all Co-Channel Licensees & their respective Call Signs 120-km or less from each proposed antenna location
- A listing and describing the plots provided
- All Co-Channel analysis plots
- A transmitter information report shall be provided for each individual co-channel analysis plot identified with
 - Applicant's Name
 - Channel number and corresponding frequency in MHz

Adjacent Channel Modeling & Analysis

To review the effects of the proposed new or modified selection against upper and lower adjacent channels (subject freq \pm 12.5 KHz), a landscape plot on 8.5" x 11.0" with no more than 1" margins shall be provided for each of the adjacent frequencies and locations within 80-km from each site of the new request. The coverage propagation of each new or modified frequency and location is to be calculated to 25-dBuV/m. This 25-dBuV/m prediction shall not overlap any incumbents' calculated 40-dBuV/m predictions within their jurisdictional service area.

Note: Use of R6602 curves is not acceptable for either new or incumbent licensees.

Each adjacent channel analysis plot shall be labeled with:

- Applicant's Name
- Channel number and corresponding frequency in MHz
- Adjacent Channel Plot (#) of (total # of adjacent channel Plots)

The Adjacent Channel Package shall consist of:

- A listing of all adjacent channel Licensees & their respective call signs 80-km or less from each proposed antenna location;

² Preferably, it shall be supplied in conformance with the TIA-IS 804-1 standard for Terrestrial Land Mobile Radio Antenna Systems – Standard Format for Digitized antenna patterns.

- A listing describing the plots provided;
- All adjacent channel analysis plots, and
- A transmitter information report shall be provided for each individual adjacent channel analysis plot identified with:
 - Applicant's Name
 - Channel number and corresponding frequency in MHz.

Additional Modeling & Analysis

The applicant may also provide additional or more detailed analyses than that outlined within these guidelines. These additional showings will be considered in the evaluation of the applicant's request. These additional analyses may include items such as:

- Studies considering the antenna patterns of licensed incumbents
- More sophisticated interference studies, such as signal to interference and/or reliability degradation in the presence of aggregate incumbent interference sources.
- Showings for a reduction of the 25-dBu adjacent channel interference threshold level (this would include technology-to technology ACCPR analyses)

The applicant is encouraged to discuss the use of these additional items with the technical and RPUC Committees prior to submission within their application.

Administration

Three (3) hard copies and Ten (10) CD-ROM copies of the complete application and technical analysis are to be presented to the Region 55 Committee.

Attachment B

Application for Inclusion in the Region 55 New York Buffalo Plan for Channels in the 821-824/866-869 MHz Band (see Excel spreadsheet file).

SUPPLEMENTAL INFORMATION FOR COMPLETING APPLICATION. WHERE APPLICABLE, THIS INFORMATION SHOULD BE COMPLETE AND IN AS MUCH DETAIL AS POSSIBLE IN ORDER TO ASSIST THE COMMITTEE IN DISTRIBUTING CHANNELS.

1. Details of engineering survey showing radio coverage will not exceed applicants' minimum requirements.
2. Explain how system will be used to communicate with other service in other bands.
3. Explain any budget commitment that has been made for the proposed system.
4. Explain how system will interface with long distance radio communications such as Amateur Radio, satellite communications, and / or long-range emergency preparedness communications systems.
5. Statement of need for installing a new 800 MHz system.
6. Explain and certify that the applicant's agency will comply with the common channel implementation requirements.
7. Provide details of all existing channels used by the applicant within 70 miles of the proposed system.

DO NOT MAKE ENTRIES IN THE TOP LINE

1. Leave blank
2. Leave blank
3. Code name of service, i.e., Public Safety, Special Emergency
4. Enter date application is prepared.
5. Enter 1 of 1, 1 of 2, 2 of 3, as appropriate.
6. Enter applicant agency which will use frequency. See (25).
7. Enter street address at (6) above.
8. Enter name of City in which applicant agency is located.
9. Enter name of County in which applicant agency is located.
10. Enter two-letter abbreviation for applicant's state.
11. Enter mailing address Zip code of applicant agency.
12. Enter name of person to contact in (6) above, if necessary.
13. Enter name of person who prepared application.
14. Enter phone number including area code of (13) above.
15. Enter phone number including area code of (12) above.
16. Enter only the appropriate one of the (6) vertical spaces.
17. Is application for base(s) and mobile(s)?
18. Enter only the appropriate one of the (4) vertical spaces.
19. Enter call sign(s) of existing license(s), if any, which are effected by this application. See Item (34) below.
20. Check appropriate space(s). NOTE: 421-430 MHz available only in Buffalo, Cleveland and Detroit areas.
21. Check appropriate space(s). If not applicable, leave blank.
22. Be sure this entry agrees with NEW in Item 34.
23. Enter numbers in appropriate space(s).
24. Enter complete address of facility having system control.
25. Number and paragraph of appropriate FCC Rules Section 90.
26. Do you have permission, from an existing user of this frequency(s) within your area, to also use the frequency(s) here being applied for? If yes, attach copy of such concurring agreement.
27. Enter any remarks that will furnish added information.
28. Leave blank.

SUBMIT THIS FORM AND ALL REQUIRED ATTACHMENTS TO:

APCO – NNY Frequency Advisor
Gary E. Perkins
607 El Mar Drive
Rochester, New York 14616-1035

29. Enter address OR other locators of transmitter facility(s).
30. Enter name of City where (29) above are located.
31. Enter name of County where (29) above are located.
32. Enter two-letter State abbreviation of (29) above.
33. Alphabetical identifiers MUST BE SAME AS IN (29) above.
34. These entries MUST agree with item 18:
 Check only NEW if application is for a NEW frequency.
 Check only MOD if application is for MODIFICATION of existing frequency.
 Check only EXT if this is ONLY information reference to EXISTING frequency with no change.
35. Enter transmitter frequency(s) in MHz.
36. Enter, in MHz, frequency of receiver associated with (35) above.
37. Example, enter: FB=Fixed Base, MO=Mobile, FX1=Control, etc. See FCC Rules.
 Use only one line per class (do not mix).
38. Enter number of units. See (37) above.
39. Type of transmitter emission, *i.e.*, 20F3, 8A3, etc. See Rules.
40. Enter transmitter power in watts. If mobile, list highest power. All others will be assumed same.
41. Enter gain in DB. If no gain, enter 0.
42. EFFECTIVE RADIATED POWER in watts.
43. If non-directional antenna, enter 360. If directional, enter compass point direction of main power lobe, to the nearest degree.
44. Enter angle in degrees antenna is tilted from vertical plane. If none, enter 0.
45. Where required (470-512 MHz and above 800 MHz) enter antenna height ABOVE AVERAGE TERRAIN (AAT).
46. Enter ground level in feet above mean sea level (AMSL).
47. Enter distance in feet from ground to tip of antenna.
48. Enter in Degrees, Minutes, and nearest Seconds: North.
49. Enter in Degrees, Minutes, and nearest Seconds: West.
50. If used, enter transmitter squelch tone code in Hz. APCO STRONGLY recommends use of coded squelch.
51. Enter as in (50) above for receiver.

APPLICANT'S CERTIFICATION

- The information supplied on this form and all attachments is a true and correct representation of the needs of this eligible licensee in the Public Safety or Special Emergency Radio Service.
- The five common interagency channels will be implemented to permit exchange of priority information during emergencies or disasters. This agency will participate with other agencies in the Region to fully implement an interagency network as described in the Plan and required by the FCC.
- This agency has a firm intention to implement a new 800 MHz system within 5 years and to return, for use by other public safety eligibles, existing unneeded channels. Should implementation not begin within two years, or channel loading projected not be attained within 5 years, channels will be returned for reallocation to others.

Eligible Licensee Name

Signature – Official Representative

Date

Typed Signature's Name