

Engineering Exhibit

Park Public Radio, Inc.
Belmond, IA

Form 340 Non-Commercial Educational Station

Channel 201C3 (88.1 MHz)
25 kW H/V
55 meters HAAT
62 meters HAGL
420 meters RCAMSL

Amended April 14, 2022

Prepared by Jeff Sibert
President and Chief Engineer
Park Public Radio, Inc.

Overview:

This exhibit supports the amended application by Park Public Radio (PPR) for a new Full Power NCE FM station in Belmond, IA (the “PPR Application”). All additional technical information requested in the application is provided in this document. Non-technical information is provided in other exhibits attached to this application.

Settlement and Mutually Exclusive Applications filed during the November 2021 NCE Window:

This application was part of MX Group 124 with several other applicants. As part of a settlement agreement between multiple entities, this amendment removes the PPR application completely from the group and allows it to be granted as a singleton. This application proposes moving the transmitter to a new site and proposing a Community of License change. The application will propose operation on the same frequency and will be mutually exclusive to the original application as there will be 40 dBu overlap of the original application, therefore it may be granted as a minor change.

Two application conflicts presently exist, however both of these applications will either be dismissed or modified as part of the settlement process, therefore the application conflicts will no longer exist if the settlement is granted by the FCC. Grant of the settlement agreement is in the public interest as it will allow for the introduction of multiple new NCE services and reduce Commission burden on deciding the outcome of the eleven remaining applications in this large MX group.

Application Conflicts that are being resolved by Settlement

The following pending application is not included below because it is being dismissed as part of the settlement agreement.

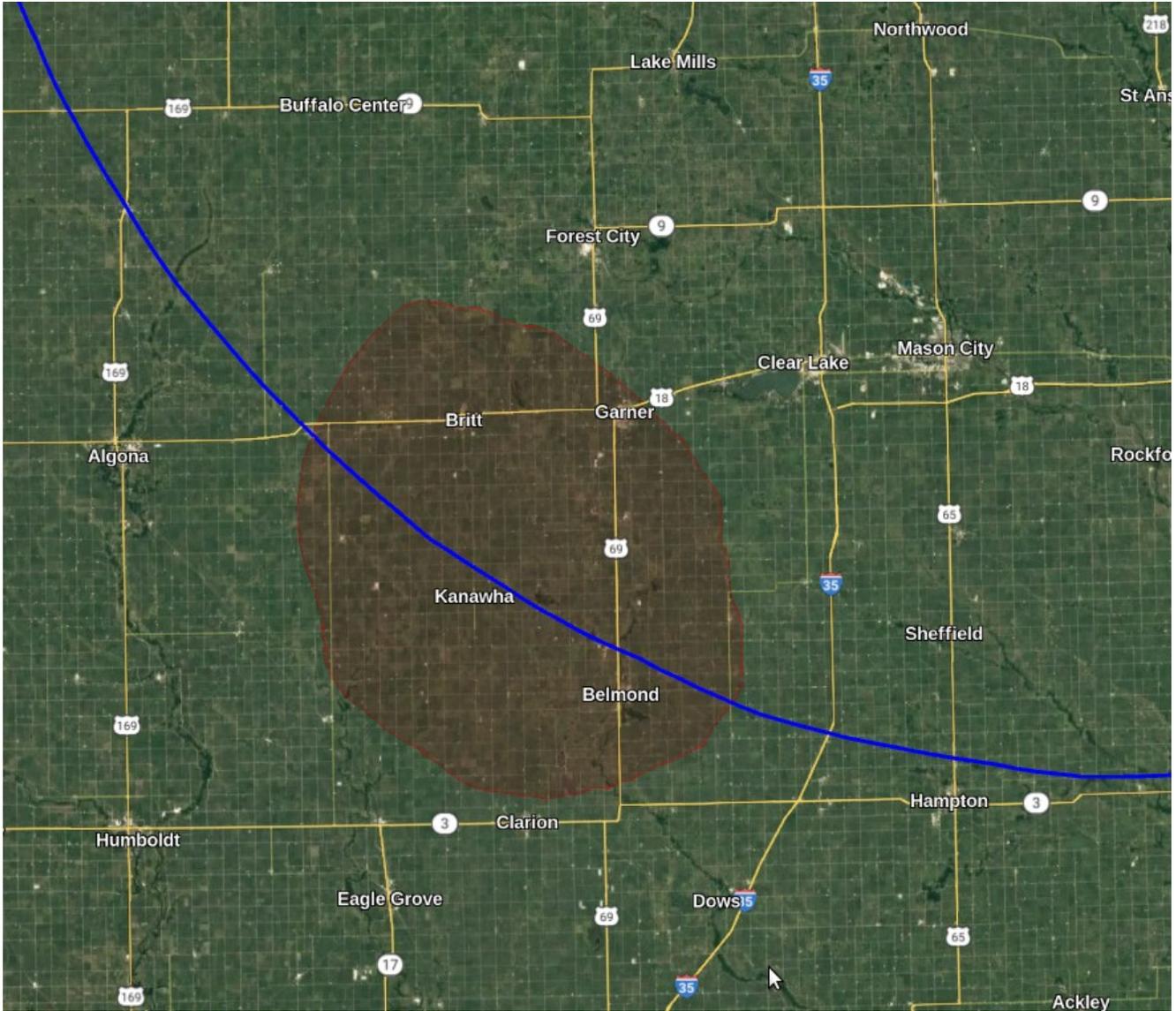
<u>Facility ID</u>	<u>City of License</u>	<u>Applicant</u>
762427	Hayfield, MN	Minn-Iowa Christian Broadcasting

The following application is being modified as part of the settlement. The modification, not the original application, is included.

<u>Facility ID</u>	<u>City of License</u>	<u>Applicant</u>
767527	Claremont, MN	One Day Church Project, Inc.

Minor amendment exhibit:

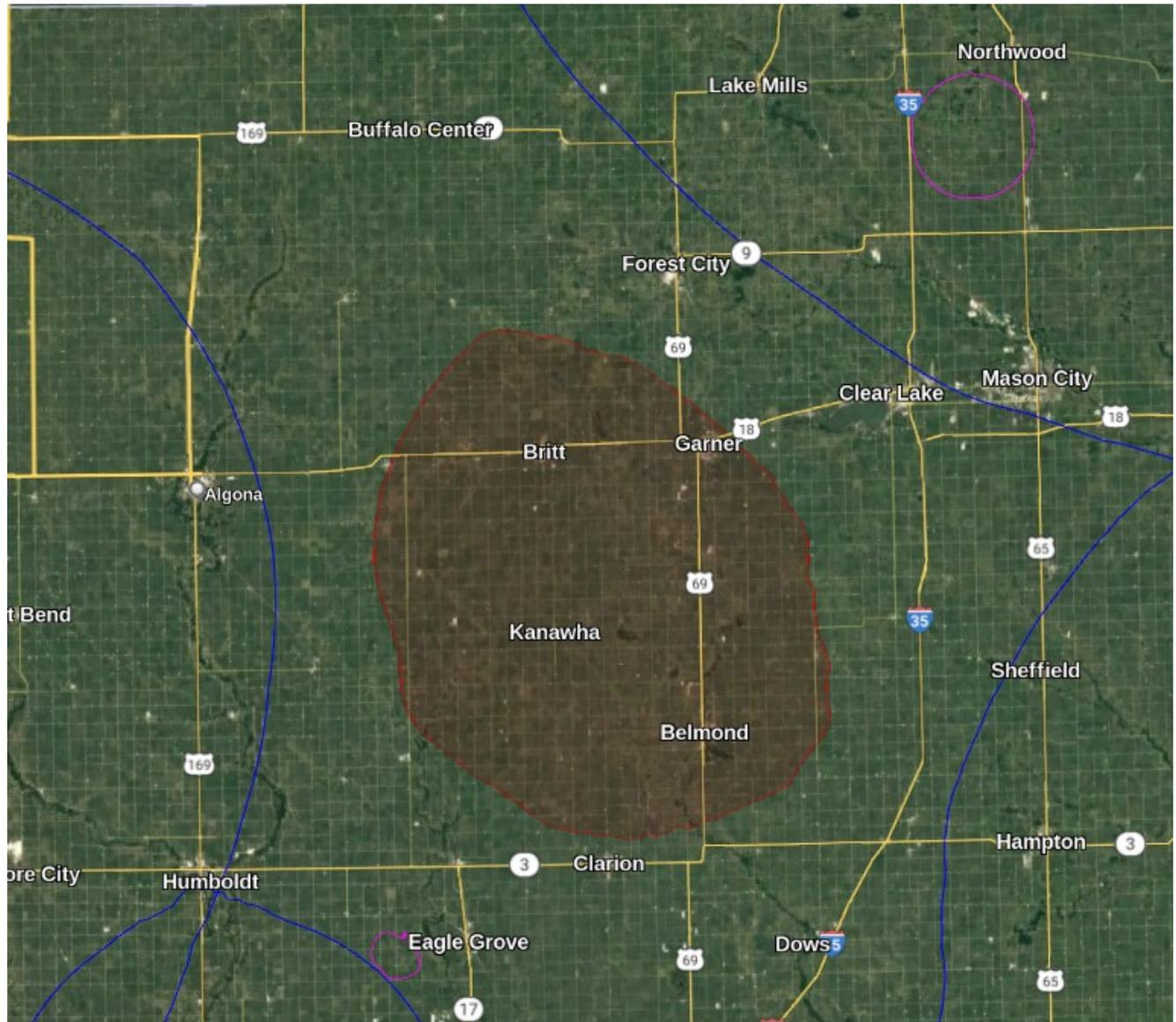
PPR proposes to modify the Community of License to Belmond, IA and specify a new site on the same channel. The amended 60 dBu contour (red) overlaps the 40 dBu contour of the original application (blue), therefore it may be considered a minor amendment. The channel remains 201.



73.509 interference:

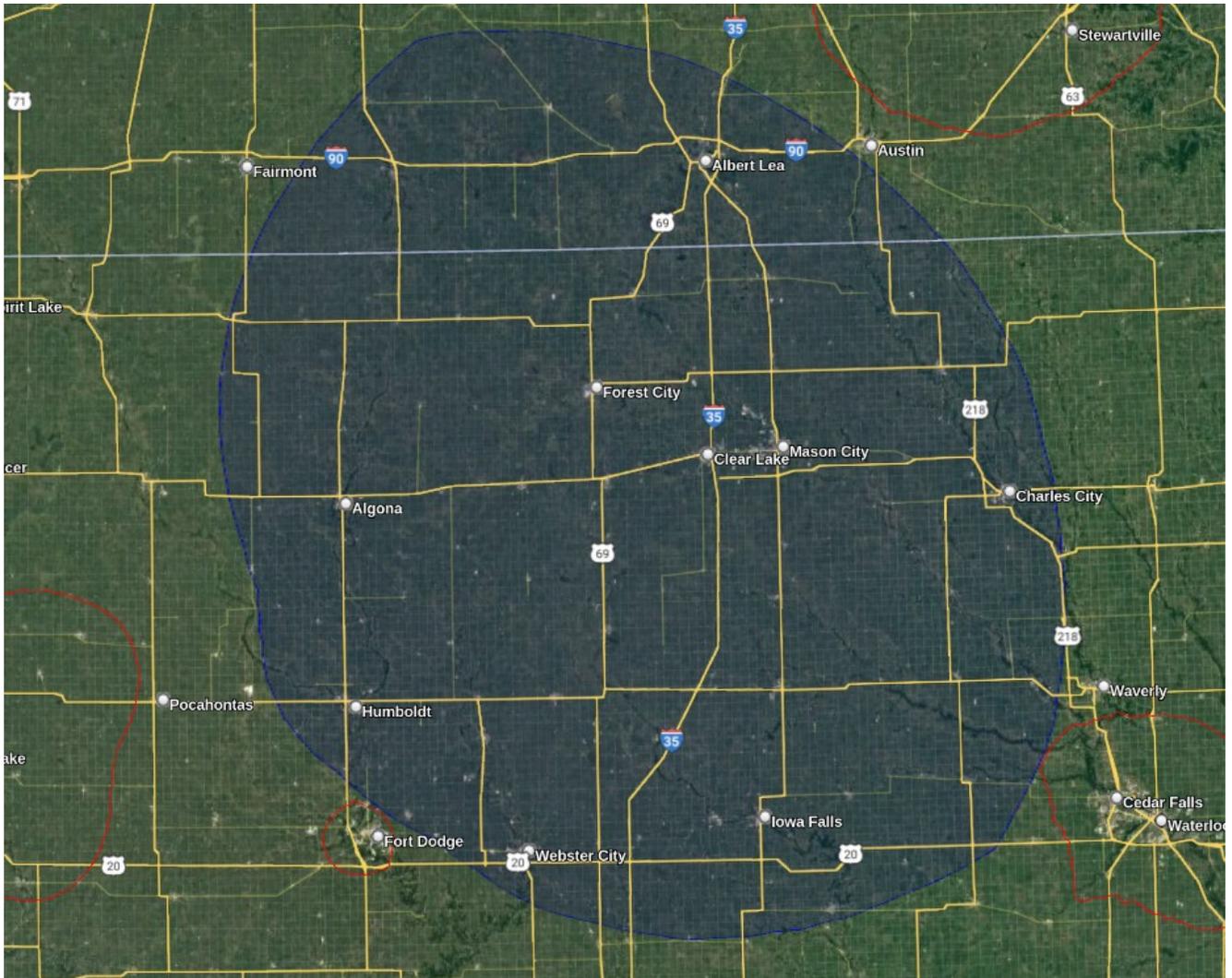
a. Incoming interference

The 60 dBu service contour of the Proposed PPR Application (Shaded Red) does not intersect the 100, 54, or 40 dBu interfering contour of any other full power station on a second/third adjacent (Magenta), first adjacent (Yellow), or co-channel (Blue) frequency (respectively).



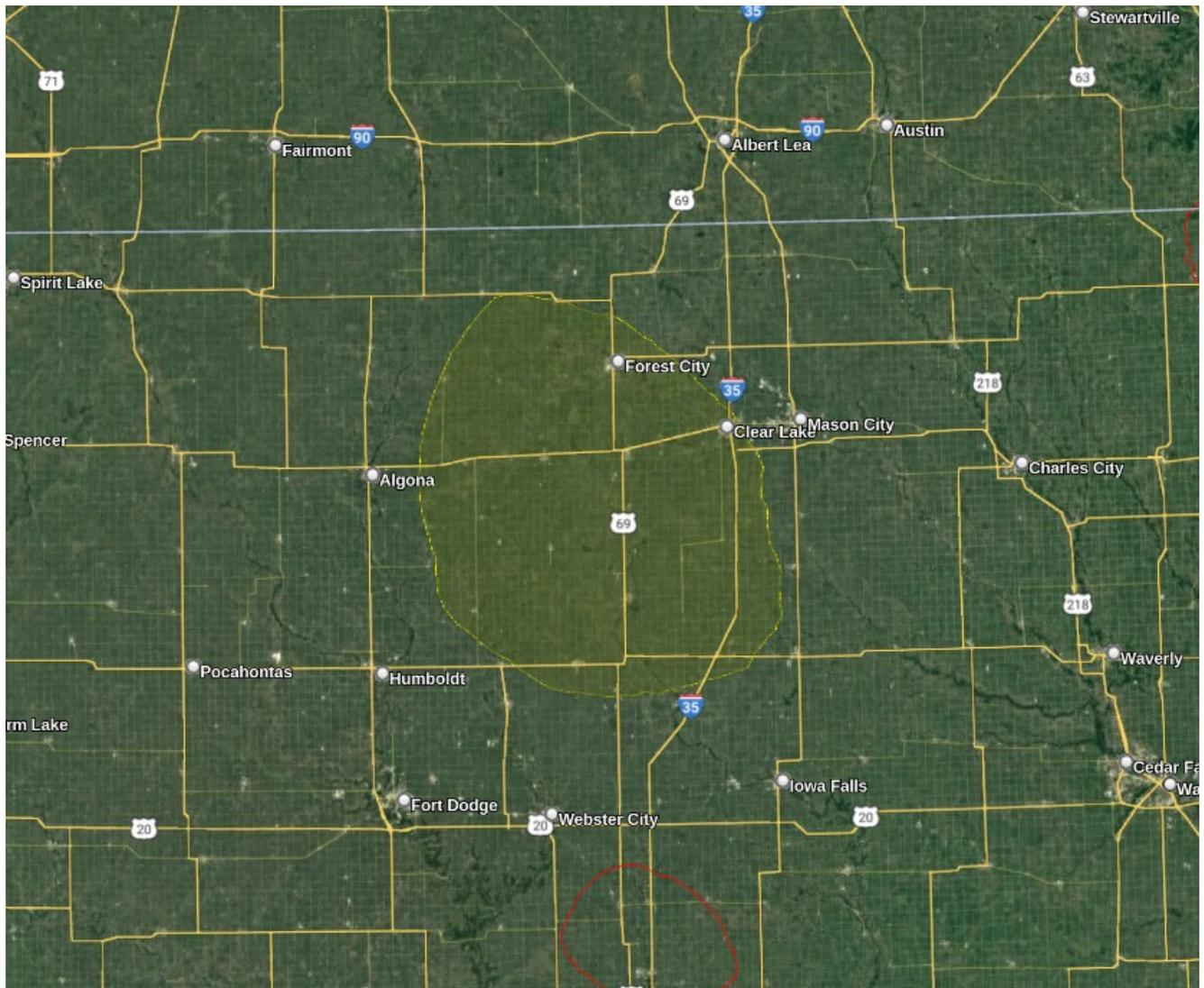
b. Outgoing Co-Channel interference

The 60 dBu service contour of no other co-channel station (Red) would intersect the 40 dBu interfering contour of the Proposed PPR application (Blue). Contour clearance to KBBG and KICB are just met.



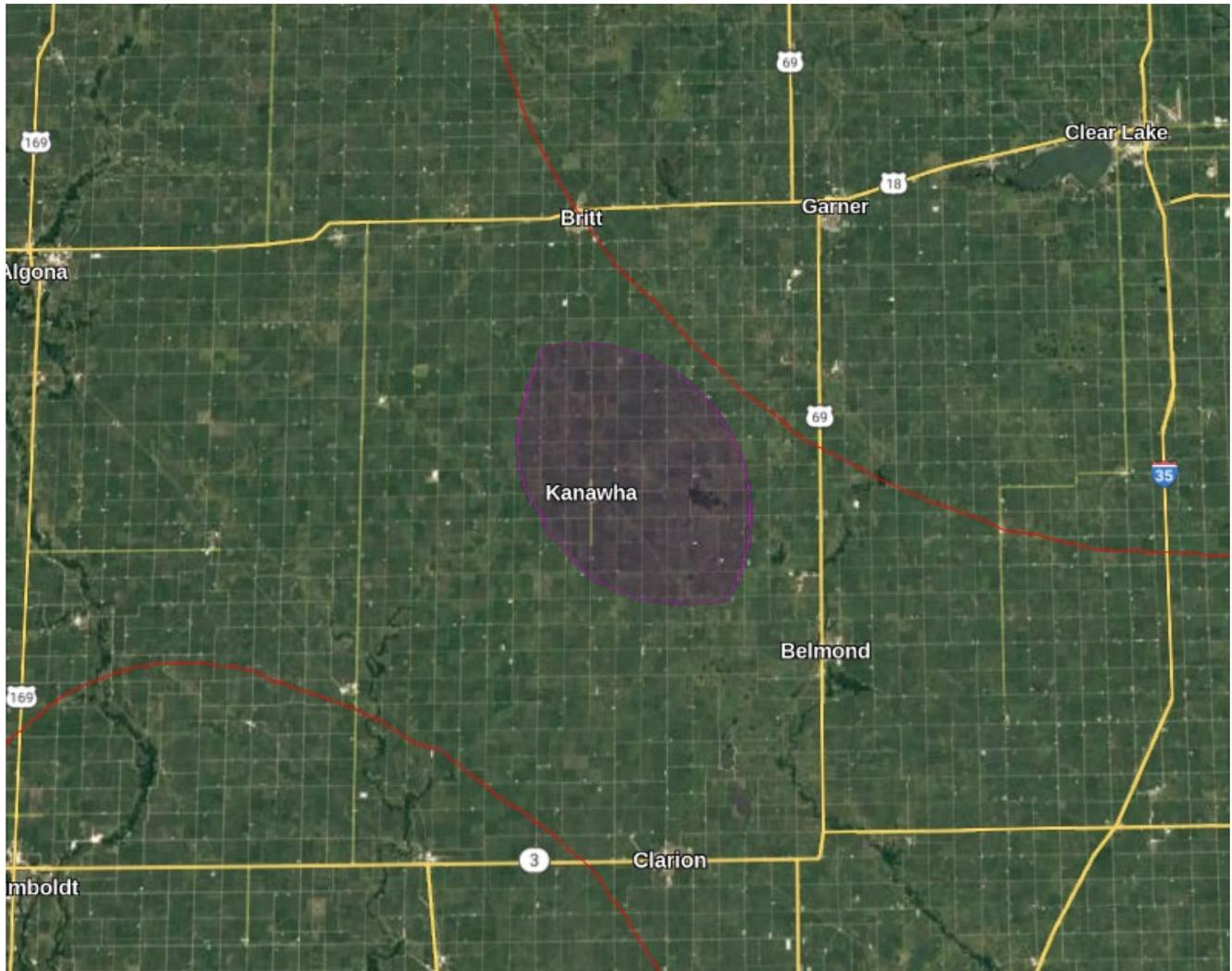
c. Outgoing first adjacent channel interference

The 60 dBu service contour of no other first adjacent station (Red) would intersect the 54 dBu interfering contour of the Proposed PPR application (Yellow).



d. Outgoing Second and Third Adjacent Interference:

The 60 dBu service contour of no other second or third adjacent station (Red) would intersect the 100 dBu interfering contours of the Proposed PPR application (Magenta).



73.207 spacing:

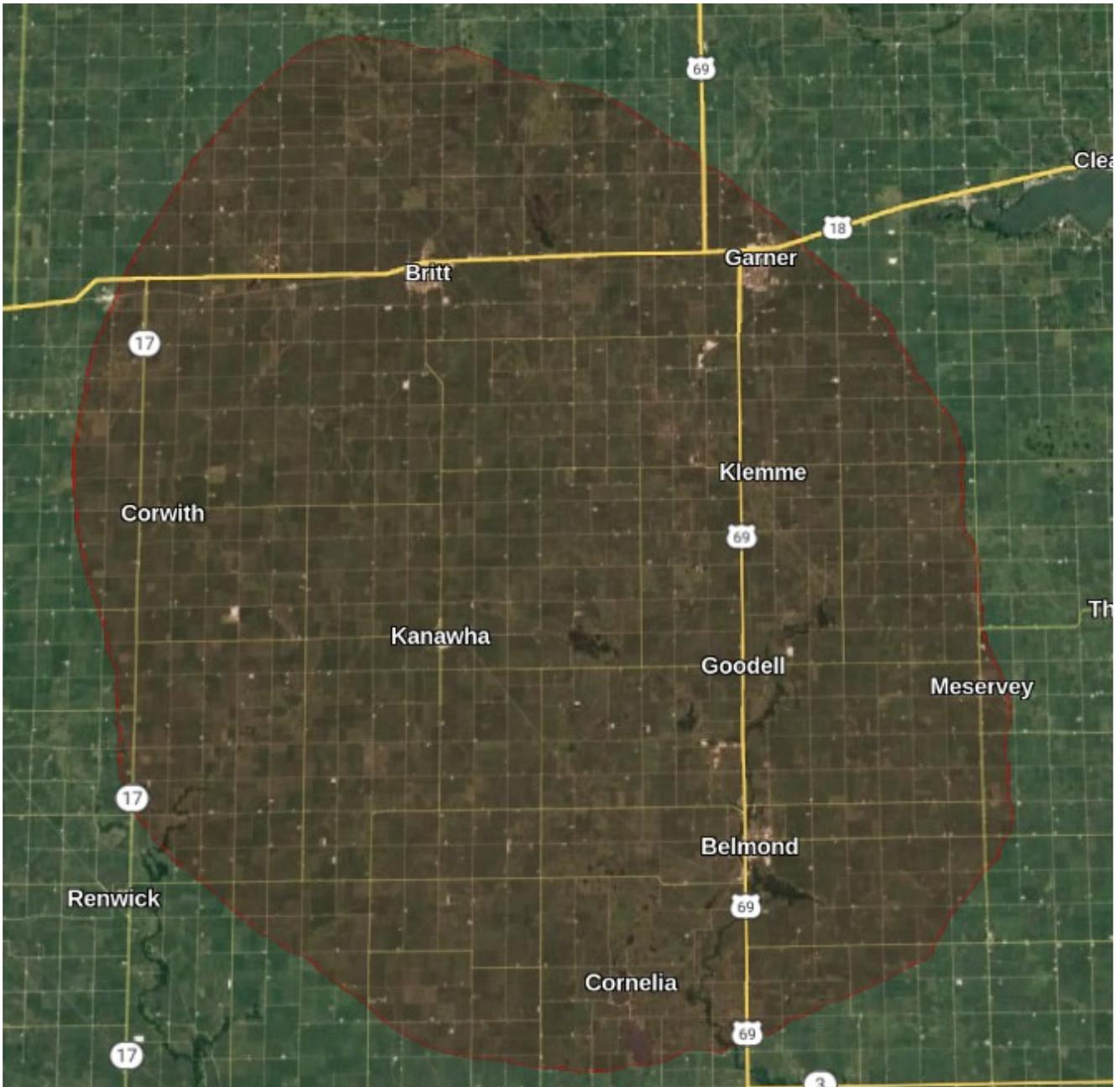
There are no IF relationships 53 or 54 channels away within the required distances of a Class A station. As the frequency chosen is on Channel 201, 73.207 protection of other stations above 220 is not required.

FAA requirements:

PPR proposes to side-mount its antenna onto an existing communications structure, therefore the facility is exempt from further FAA notification requirements.

Community of License:

The community of license will be Belmond, IA. The 60 dBu contour will completely cover the community of license.



Environmental Impact Assessment:

The proposed antenna will be mounted on an existing structure, therefore no new construction will occur and there will be no significant environmental impact. Using 25kW horizontal and 25kW with a 2 bay antenna, no areas of radiation greater than 200uW/cm² will occur at ground level. At 60 meters and beyond, the maximum exposure will be below 70uW/cm² according to worst case calculations using the FCC's FM Model application. A larger antenna (with more bays) will further reduce the exposure. Additionally, PPR will take any necessary precautions to prevent workers from being exposed to NIR levels that exceed actionable levels by reducing power or going off the air whenever necessary.

Conclusion:

Grant of this application will serve the public interest by introducing a new NCE service to Belmond, IA.

Certification:

I, Jeffrey Sibert, have prepared this technical exhibit for Park Public Radio, Inc. I certify and declare, under penalty of perjury, that the information and statements made in this application are accurate to the best of my knowledge and comply with all Commission rules and regulations.

Jeffrey Sibert
President
Park Public Radio, Inc.
April 14, 2021