

COPY

Pine-Aire Broadcasting Corporation, Inc.

FCC MAIL SECTION

Petitioner,

JUL 29 12 15 PM '91

PETITION FOR RULEMAKING TO AMEND THE TABLE OF ALLOTMENTS CHANNEL 222 C3 TO HAYWARD, WISCONSIN

Before the Federal Communications Commission

RECEIVED JUL 29 1991

FEDERAL COMMUNICATIONS COMMISSION OFFICE OF THE SECRETARY

THE PETITIONER HEREUNDER, hereby petitions the Federal Communications Commission to amend the Table of Allotments, Channel 222 C3 to Hayward, Wisconsin, and in support of its Petition states and alleges as follows:

- 1. The Petitioner's name is Pine-Aire Broadcasting Corporation, Inc., and that it is the licensee of radio station WRLS-FM, licensed to Hayward, Wisconsin, currently allotted FM Broadcast Channel 221-A in Hayward.
2. Petitioner desires an amendment of said FM Broadcast Channel allotment by substituting said current allotment to an adjacent channel upgrade to 222 C3 and a license modification in conformance therewith, as follows:

Table with 3 columns: Location, Present, Proposed. Row 1: Hayward, Wisconsin, 221A, 222C3. Row 2: 269A, 269A.

- 3. Attached hereto as Exhibit A and made a part hereof by reference is an Engineering Statement on behalf of Pine-Aire Broadcasting Corporation, Inc., in Support of a Petition to Amend the FM table of Allotments Channel 222 C3 to Hayward, Wisconsin, prepared by Garrett G. Lysiak, P.E. of Owl Engineering, Inc.

- 4. The Petitioner's address for the purpose of service and correspondence in connection with this Petition is as follows:

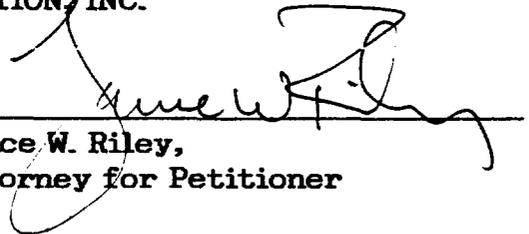
Pine-Aire Broadcasting Corporation, Inc. c/o Riley & Bergquist, P.A. 5001 West 80th Street, Suite 255 Bloomington, Minnesota 55437

5. Petitioner is aware of no competing or mutually exclusive application now pending before the Federal Communications Commission.
6. Petitioner believes that the granting of the amendment sought by this Petitioner would be in the best interest of the public in that the quality and strength of Petitioner's signal would be enhanced in an area that is generally sparsely populated and inadequately served by current signals available in the area.
7. Upon a grant of the Federal Communications Commission of the amendment of FM allocation and modification of license sought by this Petition, the Petitioner shall promptly take action to apply for a construction permit to allow upgraded facilities consistent with such modified license.

Based upon the foregoing and upon the Engineering Statement attached hereto, the undersigned hereby requests a Rulemaking by the Federal Communications Commission as described herein.

**PINE-AIRE BROADCASTING
CORPORATION, INC.**

By: _____


**Lance W. Riley,
Attorney for Petitioner**



CONSULTING COMMUNICATIONS ENGINEERS

1306 W. County Road F, St. Paul, MN 55112
(612) 631-1338 • Fax (612) 631-3502

**ENGINEERING STATEMENT
ON BEHALF OF
PINE-AIRE BROADCASTING CORPORATION INC.
IN SUPPORT OF A PETITION TO AMEND
THE FM TABLE OF ALLOTMENTS
CHANNEL 222 C3 TO HAYWARD, WISCONSIN**

July 15, 1991

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NARRATIVE: Owl Engineering, Inc. has been retained by Pine-Aire Broadcasting Corporation Inc. (Hereafter Pine-Aire) to prepare this Engineering Statement in support of a petition to amend the FM Table of Allotments, FCC Rules section 73.202(b), as follows:

Location	Present	Proposed

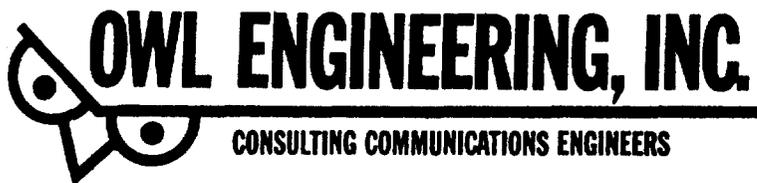
Hayward, Wisconsin	221A 269A	222C3 269A

The reference coordinates used for Hayward, Wisconsin in this study are:

46° 06' 47" North Latitude

91° 20' 07" West Longitude

The proposed maximized Class C3 facilities will provide a predicted 60 dBu (1mv/m) signal to the population encompassed by an area of approximately 4,752 square kilometers. Hayward, Wisconsin has a population of 1,698 based on 1980 U.S. census data.



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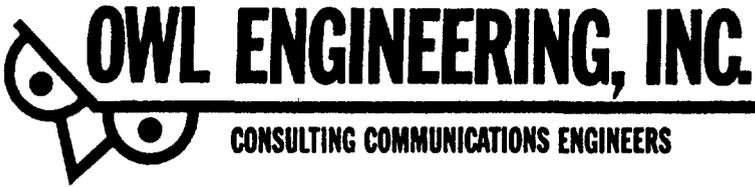
Pine-Aire is currently the licensee of FM broadcast channel 221A in Hayward. The proposal of Pine-Aire was evaluated to determine the increase in signal coverage of the proposed C3 facilities. The three to sixteen kilometer average terrain was computed using the NGDC data base and the distance to contours was computed using the FCC F(50,50) metric curves.

The present coverage area was compared with Pine-Aire's proposed C3 facility as shown below:

Present coverage area	1,845 km ² *
Proposed coverage area	4,752 km ² *

Pine-Aire's proposal increases their signal coverage area by 158%.

* Area was computed using a computerized Integration program



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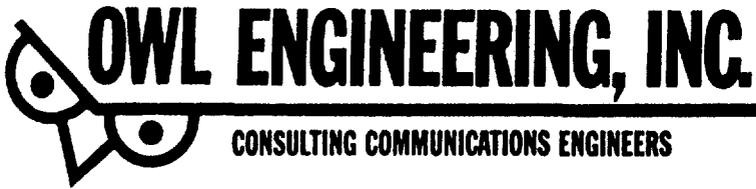
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The proposal of Pine-Aire was evaluated to determine if the upgrade in class to a C3 facility would meet FCC spacing requirements. That analysis is attached as Engineering Exhibit E-1. As can be seen from exhibit E-1, Pine-Aire's proposal meets all FCC spacing requirements set forth in section 73.207 of the FCC Rules.

The proposal of Pine-Aire was evaluated to determine if the upgrade in class to a C3 facility would meet FCC signal coverage requirements. The distance from the reference coordinates to the Center City Coordinates of Hayward is 16.0 kilometers by the FCC computation method. The bearing to the Center City Coordinates is 226°. The three to sixteen kilometer average terrain was computed using the NGDC data base and the distance to contours was computed using the FCC F(50,50) metric curves. The distance to the 70 dBu contour along the radial through the principle city is 27.5 kilometers, surpassing the Center City by some 11.5 kilometers. Engineering Exhibit E-3 shows the intervening terrain between the reference coordinates and the center city coordinates of Hayward. As can be seen from this exhibit there are no major obstacles in the path to the principle city. Clearly, the proposal of Pine-Aire meets the requirements of FCC Rules section 73.315(a).



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Referring to Engineering Exhibit E-2, it is clear that there is a wide area in which to locate a transmitter. The approximate area in which a transmitter could be located and meet the requirements of FCC Rules section 73.315(a) is 400 square kilometers. This area was determined by using a calibrated polar planimeter. Clearly, the proposal of Pine-Aire meets the requirements of FCC Rules section 73.315(a) with a wide area in which to locate a transmitter.



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Based on the engineering studies provided, the following conclusions can be obtained:

1. The proposal will provide Hayward with a full time regional broadcast service.
2. The proposal will meet the requirements of FCC Rules Section 73.315(a).
3. The proposal will meet the requirements of FCC Rules Section 73.207.
4. The proposal will increase the 60 dBu signal coverage area by 158%.

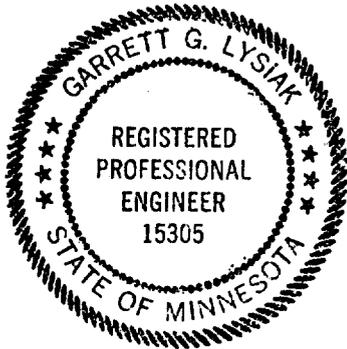
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 CHANNEL 222 C3 TO HAYWARD, WISCONSIN**

AFFIDAVIT

RAMSEY COUNTY)
)
 STATE OF MINNESOTA)

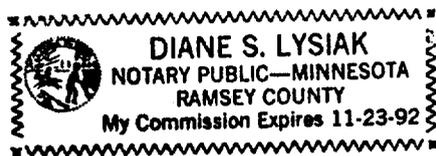
ss:

Garrett G. Lysiak, being first duly sworn, says that he is president of Owl Engineering, Inc., consulting communications engineers with offices in Arden Hills, Minnesota; that his qualifications as an expert in communications engineering are a matter of record with the Federal Communications Commission; that the foregoing exhibit was prepared by him and under his direction; and that the statements contained therein are true of his own personal knowledge except those stated to information and belief and, as to those statements, verily believes them to be true and correct.



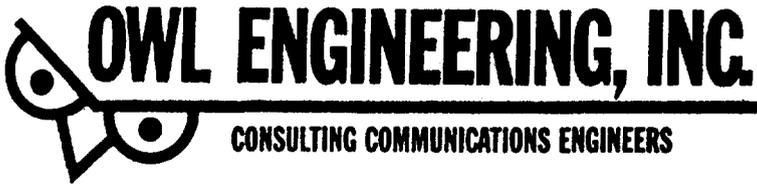
Garrett G. Lysiak
 Garrett G. Lysiak, P.E.

Subscribed and sworn to before me this date July 15, 1991



Diane S. Lysiak
 Diane S. Lysiak
 Notary Public

My commission expires November 23, 1992



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ENGINEERING EXHIBIT E-1
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IN SUPPORT OF A PETITION TO AMEND
THE FM TABLE OF ALLOTMENTS
CHANNEL 222 C3 TO HAYWARD, MINNESOTA

FM Channel 222-C3

LATITUDE: 46° 6' 47"

LONGITUDE: 91° 20' 7"

CHNL	Call	City	Class	Calculated Km.	Required Km.	Delta	Bearing °
276							
275							
219							
220							
221	WRLSFM	FMWI Hayward	A	17.01	84	-66.99	233.19**
222							
223	KQRSFM	FMMN Golden Valley	C	182.30	176	6.30	230.53
224	WLDYFM	FMWI Ladysmith	A	74.32	42	32.32	164.67
225	WSCDFM	FMMN Duluth	C1	96.22	76	20.22	321.70

*** This short spaced condition will be eliminated by this proposal.

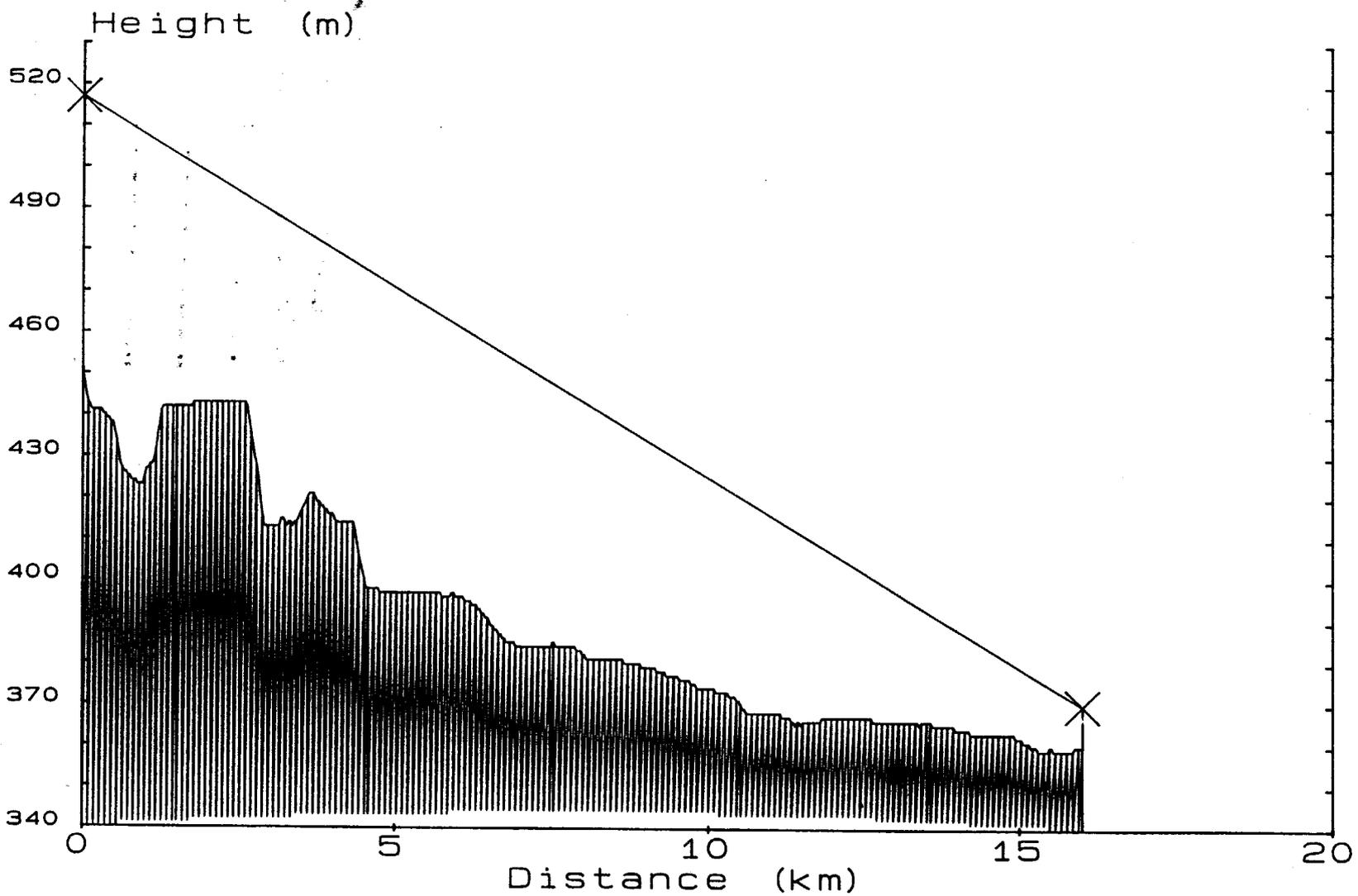
The nearest Monitoring Station is at Allegan Michigan
at a distance of 579.5 Kilometers
and a bearing of 130.5 Degrees

DOCUMENT OFF-LINE

"This page has been substituted for one of the following:

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- o Microfilm, microform, certain photographs.
- o Other materials which, for one reason or another, could not be scanned into the RIPS system.

The actual document, page(s) or materials may be reviewed by contacting a Dockets Clerk. Please note the applicable docket or rulemaking number, document type and any other relevant information about the document in order to ensure speedy retrieval by the Dockets Clerk."



Profile Plot for Hayward, WI

Engineering Exhibit E-3

Owl Engineering, Inc.
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Saint Paul, Minnesota
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