

UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RENEWAL AND MODIFICATION
STANDARD BROADCAST STATION LICENSE
MAIN & AUXILIARY TRANSMITTERS

ER-78
File No.: EHL-2666
Call Sign: K V I

Subject to the provisions of the Communications Act of 1934, subsequent Acts, and Treaties, and Commission Rules made thereunder, and further subject to conditions set forth in this license, 1/ the LICENSEE

GOLDEN WEST BROADCASTERS, INC.

is hereby authorized to use and operate the radio transmitting apparatus hereinafter described for the purpose of broadcasting for the term ending 3 a.m. Local Time **February 1, 1981**

The licensee shall use and operate said apparatus only in accordance with the following terms:

- On a frequency of **570** kHz.
- With nominal power of **5 kilo** watts nighttime and **5 kilo** watts daytime,
with antenna input power of **5 kilo** watts non directional

Antenna	current	12.4	amperes
Antenna	resistance	32.4	ohms,

antenna nighttime
and antenna input power of **5 kilo** watts non directional

Antenna	current	12.4	amperes
Antenna	resistance	32.4	ohms

antenna daytime
- Hours of operation: **Unlimited**

AUXILIARY 1 kw Night and Day:
Antenna current 5.56 amps
Antenna input power 1 kw

- With the station located at: **Seattle, Washington**
- With the main studio located at: **7th Avenue & Olive Way
Seattle, Washington**
- Remote control point: **7th Avenue & Olive Way
Seattle, Washington**
- Transmitter location: **Point Meyer, Vashon Island**, North Latitude: **47° 25' 19"**
10 miles north of West Longitude: **122° 25' 44"**
Tacoma, Washington

ANTENNA: 432' (444' overall height) tapered, self supporting, series excited, vertical radiator. GROUND SYSTEM consists of 120 equally spaced, buried and submerged, copper radials average in length 500', plus a 2000' square ground screen

- Obstruction marking specifications in accordance with the following paragraphs of FCC Form 715: **1, 3, 12 & 21.**
- Transmitter(s): **BAUER FB-5000-J (Main); BAUER FB-1000-J (Auxiliary)**
- Conditions:

The Commission reserves the right during said license period of terminating this license or making effective any changes or modification of this license which may be necessary to comply with any decision of the Commission rendered as a result of any hearing held under the rules of the Commission prior to the commencement of this license period or any decision rendered as a result of any such hearing which has been designated but not held, prior to the commencement of this license period.

This license is issued on the licensee's representation that the statements contained in licensee's application are true and that the undertakings therein contained so far as they are consistent herewith, will be carried out in good faith. The licensee shall, during the term of this license, render such broadcasting service as will serve public interest, convenience, or necessity to the full extent of the privileges herein conferred.

This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequency designated in the license beyond the term hereof, nor in any other manner than authorized herein. Neither the license nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This license is subject to the right of use or control by the Government of the United States conferred by Section 606 of the Communications Act of 1934.

1/ This license consists of this page and pages -

Dated: **February 21, 1978**

FEDERAL
COMMUNICATIONS
COMMISSION



ENGINEERING Approved By GAO
B-100227 (Rev. 1-6)

File No. **BZ-800209 AH** (For Commission Use Only)

Section I

United States of America
Federal Communications Commission

APPLICATION FOR NEW BROADCAST STATION LICENSE

Name and post office address of applicant (Include ZIP Code)
(See Instruction D) **(Wm) (JS)**

Golden West Broadcasters, Inc.
809 Tower Building
7th Ave. & Olive Way
Seattle, Washington 98101

INSTRUCTIONS

A. This form is to be used in all cases when applying for a Broadcast Station License. It consists of this part, Section I, and the following sections:

- Section II - A, License Application Engineering Data Standard Broadcast
- Section II - B, License Application Engineering Data FM Broadcast
- Section II - C, License Application Engineering Data Television Broadcast

B. Prepare and file three copies of this form and all exhibits with Federal Communications Commission, Washington, D.C. 20554.

Number exhibits serially in the space provided in the body of the form and list each exhibit in the space provided on page 2 of this Section. Date each exhibit and each antenna pattern.

The name of the applicant must be stated exactly as it appears on construction permit which is being covered.

E. Information called for by this application which is already on file with the Commission need not be refiled in this application provided (1) the information is now on file in another application or FCC form filed by or on behalf of this applicant; (2) the information is identified fully by reference to the file number (if any), the FCC form number, and the filing date of the application or other form containing the information and the page or paragraph referred to, and (3) after making the reference, the applicant states: "No change since date of filing." Any such reference will be considered to incorporate into this application all information, confidential or otherwise, contained in the application or other form referred to. The incorporated application or other form will thereafter, in its entirety, be open to the public.

F. This application shall be personally signed by the applicant, if the applicant is an individual; by one of the partners, if the applicant is a partnership; by an officer, if the applicant is a corporation; by a member who is an officer, if the applicant is an unincorporated association; by such duly elected or appointed officials as may be competent to do so under the laws of the applicable jurisdiction, if the applicant is an eligible government entity; or by the applicant's attorney in case of the applicant's physical disability or of his absence from the United States. They shall, in the event he signs for the applicant, separately set forth the reason why the application is not signed by the applicant. In addition, if any matter is stated on the basis of the attorney's belief only (rather than his knowledge), he shall separately set forth his reasons for believing that such statements are true.

G. BE SURE ALL NECESSARY INFORMATION IS FURNISHED AND ALL PARAGRAPHS ARE FULLY ANSWERED. IF ANY PORTIONS OF THE APPLICATION ARE NOT APPLICABLE, SPECIFICALLY SO STATE. DEFECTIVE OR INCOMPLETE APPLICATIONS MAY BE RETURNED WITHOUT CONSIDERATION.

H. See back of last page for Privacy Act Notice.

Notices and communications with respect to this application are to be addressed to the following - named persons at the address indicated (Include ZIP Code)

Richard Velo
(same as above)

1. Facilities authorized by construction permit

Frequency	Channel No.	Power in kilowatts	
		Night	Day
570 kHz		5.0	5.0
Hours of operation		Call letters	
24		KVI	

2. Construction permit covered by this application NA

File number	Date
Construction begun	Construction completed

Is the station now in satisfactory operating condition and ready for regular operation? Yes No
If not, explain

BROADCAST FACILITIES DIVISION
FEB 11 1980

PROGRAM DATA

3. Has applicant any contract, arrangement, or understanding, expressed or implied, with a network or organization for the broadcasting of network programs? **AM BRANCH** Yes No

Does applicant, in the event this application is granted, Yes No propose to broadcast network programs? If network programs are to be broadcast, state as Exhibit No. arrangements under which they are to be obtained and attach copies of any contractual arrangement which may have been made. If the arrangement is based on an oral understanding, a written statement of the arrangement should be submitted.

FINANCIAL DATA

4. Give actual costs of making installation for which construction was authorized

Transmitter proper including tubes	Antenna system, including antenna-ground system, coupling equipment, transmission line	Frequency and modulation monitors	Studio technical equipment, microphones, transcription equipment, etc.
\$	\$	\$	\$
Acquiring land	Acquiring or constructing buildings	Other items, state nature	Total
\$	\$	\$	\$

DIRECT MEASUREMENT OF POWER

FCC Form 302

Section I, Page 2

FINANCIAL DATA (Continued)

5. (a) Attach a detailed balance sheet, as at the completion date of the authorized construction, showing applicant's financial position as Exhibit No. (b) If the actual cost of construction materially exceeds the original estimated cost of construction, attach as Exhibit No. a detailed statement showing the plan used to finance such construction. (If applicant is licensee of a broadcast station having on file with the Commission an Annual Financial Report (FCC Form 324) showing its financial position within the past 12 months and the request in this application is for a change in existing facilities, these exhibits need not be supplied provided that no substantial reduction in financial position has occurred.)

6. State changes, if any, in capitalization, and report any contracts affecting ownership not shown in the application for construction permit. (If none, so state)

7. Apart from the apparatus constructed, have all the terms, conditions, and obligations set forth in the above-described application for construction permit been fully met? Yes No
If "No", state exceptions.

8. Is a request for authority to conduct program tests a part of this application? Yes No

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

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

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

CERTIFICATION

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

Signed and dated this _____ day of _____

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

(NAME OF APPLICANT)

By *George M. Frese*
(SIGNATURE)

Title _____

EXHIBITS furnished as required by this form:

Exhibit No.	Section and Para. No. of Form	Name of officer or employee (1) by whom or (2) under whose direction exhibit was prepared (show which)	Official title
1	II-A 9	George M. Frese, P.E.	Consulting Engineer

DIRECT MEASUREMENT OF POWER

Broadcast Application			FEDERAL COMMUNICATIONS COMMISSION				Section II-A																																																												
LICENSE APPLICATION ENGINEERING DATA STANDARD BROADCAST			Name of applicant Golden West Broadcasting, Inc																																																																
Purpose of authorization applied for: (Check one) <input type="checkbox"/> Station license <input checked="" type="checkbox"/> Direct measurement of power			Answer paragraphs 1-13		7. Operating constants: (If directional system, give current at point of resistance measurement.) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">RF common point or antenna current without modulation for night power in amperes 12.07 amps</td> <td style="width:50%;">RF common point or antenna current without modulation for day power in amperes 12.07 amps</td> </tr> <tr> <td>Actual measured antenna or common point resistance (in ohms) at operating frequency Night <u>34.3</u> Day <u>34.3</u></td> <td>Actual measured antenna or common point reactance (in ohms) at operating frequency Night <u>0</u> Day <u>0</u></td> </tr> </table>			RF common point or antenna current without modulation for night power in amperes 12.07 amps	RF common point or antenna current without modulation for day power in amperes 12.07 amps	Actual measured antenna or common point resistance (in ohms) at operating frequency Night <u>34.3</u> Day <u>34.3</u>	Actual measured antenna or common point reactance (in ohms) at operating frequency Night <u>0</u> Day <u>0</u>																																																								
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2,6,7,8,9,14																																																																			
1. Facilities authorized in construction permit			Currents, and phases for directional operation NA																																																																
Call Sign		File No. of construction permit																																																																	
Frequency	Hours of operation	Power in kilowatts		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2">Phase reading in degrees</th> <th colspan="2">Antenna base current</th> <th colspan="2">Remote indication of antenna current</th> </tr> <tr> <th>Night</th> <th>Day</th> <th>Night</th> <th>Day</th> <th>Night</th> <th>Day</th> </tr> <tr> <td colspan="6">Tower</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>				Phase reading in degrees		Antenna base current		Remote indication of antenna current		Night	Day	Night	Day	Night	Day	Tower																																															
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		Night	Day																																																																
2. Station location			Manufacturer and type of antenna monitor: NA Describe equipment used for remote indication of antenna currents (antenna monitor or other method) Diode type rectifier																																																																
State Washington		City or town Seattle																																																																	
Transmitter location																																																																			
State		County																																																																	
City or Town		Street Address (or other identification)																																																																	
4. Main studio location			8. Description of antenna system NCSDOF (If directional antenna is used, the information requested below should be given for each element of the array. Use separate sheets if necessary. Height figures should not include obstruction lighting.)																																																																
State		County																																																																	
City or Town		Street and number																																																																	
5. Remote control point location (only if authorized)			Type radiator		Height in feet of complete radiator above base insulator, or above base if grounded.																																																														
State		City or town			Overall height in feet above ground. (without obstruction lighting)		If antenna is either top loaded or sectionalized, describe fully as EXHIBIT _____.																																																												
Street Address (or other identification)																																																																			
6. Transmitter Installed			Excitation		Series <input type="checkbox"/> Shunt. <input type="checkbox"/>																																																														
Make Garris		Type No. MW-5	Rated Power 5 kw		Geographic coordinates to nearest second. For directional antenna give coordinates of center of array. For single vertical radiator give tower location.																																																														
Last radio stage			North latitude		West longitude																																																														
Total unmodulated plate current		Plate voltage		If not fully describe above, give further details and dimensions including any other antennas mounted on tower and associated isolation circuits as EXHIBIT _____.																																																															
Night	1.15 amps	5300 volts																																																																	
Day	1.15 amps	5300 volts		Details and dimensions of ground system: (Attach sketch as EXHIBIT _____ if necessary for complete description).																																																															
Manufacturer's recommended operating efficiency for the last radio frequency amplifier stage in percent. Is inverse feedback utilized? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If "Yes", to what value of feedback power is transmitter adjusted (in db) set by the manufacturer Efficiency of the last radio frequency amplifier stage as now adjusted 82.0%			(use formula $\frac{I_a^2 R_a}{E_p I_p} (100\%)$)																																																																

9. Antenna resistance measurement

Attach as Exhibit No. **1** the following:

- a. Qualifications of persons taking measurements.
- b. Schematic diagram showing clearly all components of coupling circuits, point of resistance measurement, location of antenna ammeter, connection to and characteristics of all tower lighting isolation circuits, static drains, and any other fixtures, lines etc. connected to or supported by the antenna, including other antennas and associated circuits.
- c. Full description of method used to make measurements.
- d. Manufacturer's name of each calibrated instrument used and manufacturer's rated accuracy.
- e. Date, accuracy, and by whom each instrument was last calibrated.
- f. Table of complete data taken.
- g. The graph drawn of 10 to 12 readings in a band 50 to 60 kilohertz wide with the operating frequency near the center.

10. Modulation monitor

Make	Type No.
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11. Frequency measurements

Give the following data on the checks of the frequency

Date and Time	Frequency measured by such agency or method
1. 12/8/79 9:10 pm	570,000 Hz
2. 12/9/79 4:20 am	570,000 Hz
3.	

13. In what respect, if any does the apparatus constructed differ from that described in the application for construction permit or in the permit?

Name of checking agency or method used

George M. Frese using Monsanto HT 8720 beat to 10 mHz WWV at time of use

12. Give method of varying power to compensate for variation of line voltage.

14. Give reason for the change in antenna or common point resistance. On 12/8/79 a new transmitter was installed. At that time the antenna resistance-reactance was also remeasured and found not to be in close agreement with the original value. The new value gives a more realistic efficiency value in keeping with the new transmitter. The input to the network was also found to be $61+j0$. The network was retuned to $50+j0$. Transmitter VSWR is good and the new antenna value gives good performance.

I certify that I represent the applicant in the capacity indicated below and that I have examined the foregoing statement of technical information and that it is true to the best of my knowledge and belief.

Date 12/28/79Signature George M. Frese, P.E.
(check appropriate box below)Telephone (509) 884-4558
(include Area Code)

- Technical Director
- Registered Professional Engineer
- Consultant
- Chief Operator