

EXHIBIT D

Federal Communications Commission
Washington, D.C. 20554Approved by OMB
3060-0065
Expires 12/31/89APPLICATION FOR NEW OR MODIFIED RADIO STATION AUTHORIZATION UNDER PART 5 OF FCC RULES
EXPERIMENTAL RADIO SERVICE (OTHER THAN BROADCAST)

A. Applicant's Name and Post Office address (Give street, city, state, and ZIP Code. See Instruction No. 4) Mountain Signal Memorial Fund, Inc 31291 Raymond Creek Road Scappoose, OR 97056	DO NOT WRITE IN THIS BLOCK File No. 1668-EX-PC-90 (Reinstatement)																																																																													
2.(a) Application for (check only one box) ☒ New Station ☐ Modification of existing authorization	2.(b) For Modification indicate below File No.: Call Sign:																																																																													
3. Application for modification indicate change in (check all that apply) N/A ☐ Frequency ☐ Emission ☐ Power ☐ Location ☐ Other particulars (describe below or in attached Exhibit No. _____)																																																																														
4. Particulars of Operation (See instructions below) <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 15%;">Frequency (State Whether kHz or MHz) (A)</th> <th colspan="3" style="width: 30%;">POWER</th> <th style="width: 15%;">EMISSION (E)</th> <th style="width: 15%;">MODULATING SIGNAL (F)</th> <th style="width: 10%;">NECESSARY BANDWIDTH (kHz) (G)</th> </tr> <tr> <th></th> <th>(B)</th> <th>(C)</th> <th>(D)</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>168.510</td> <td>Note 1</td> <td>0.2-1.1mw</td> <td>peak</td> <td>2K00P0N</td> <td>50ms, 92PPM</td> <td>2.0KH₂</td> </tr> <tr> <td>168.570</td> <td>Note 1</td> <td>0.2-1.1mw</td> <td>peak</td> <td>2K00P0N</td> <td>50ms, 92PPM</td> <td>2.0KH₂</td> </tr> <tr> <td>168.730</td> <td>Note 1</td> <td>0.2-1.1mw</td> <td>peak</td> <td>2K00P0N</td> <td>50ms, 92PPM</td> <td>2.0KH₂</td> </tr> <tr> <td>168.260</td> <td>Note 1</td> <td>0.2-1.1mw</td> <td>peak</td> <td>2K00P0N</td> <td>50ms, 92PPM</td> <td>2.0KH₂</td> </tr> <tr> <td>168.640</td> <td>Note 1</td> <td>0.2-1.1mw</td> <td>peak</td> <td>2K00P0N</td> <td>50ms, 92PPM</td> <td>2.0KH₂</td> </tr> <tr> <td>168.180</td> <td>Note 1</td> <td>0.2-1.1mw</td> <td>peak</td> <td>2K00P0N</td> <td>50ms, 92PPM</td> <td>2.0KH₂</td> </tr> <tr> <td>168.220</td> <td>Note 1</td> <td>0.2-1.1mw</td> <td>peak</td> <td>2K00P0N</td> <td>50ms, 92PPM</td> <td>2.0KH₂</td> </tr> <tr><td> </td><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><td> </td></tr> </tbody> </table>		Frequency (State Whether kHz or MHz) (A)	POWER			EMISSION (E)	MODULATING SIGNAL (F)	NECESSARY BANDWIDTH (kHz) (G)		(B)	(C)	(D)				168.510	Note 1	0.2-1.1mw	peak	2K00P0N	50ms, 92PPM	2.0KH ₂	168.570	Note 1	0.2-1.1mw	peak	2K00P0N	50ms, 92PPM	2.0KH ₂	168.730	Note 1	0.2-1.1mw	peak	2K00P0N	50ms, 92PPM	2.0KH ₂	168.260	Note 1	0.2-1.1mw	peak	2K00P0N	50ms, 92PPM	2.0KH ₂	168.640	Note 1	0.2-1.1mw	peak	2K00P0N	50ms, 92PPM	2.0KH ₂	168.180	Note 1	0.2-1.1mw	peak	2K00P0N	50ms, 92PPM	2.0KH ₂	168.220	Note 1	0.2-1.1mw	peak	2K00P0N	50ms, 92PPM	2.0KH ₂														
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(A) List each frequency or frequency band separately. (If more space is required, attach as Exhibit No. _____). (B) Insert maximum R.F. output power at the transmitter terminals. Specify units. (C) Insert maximum effective radiated power from the antenna (If pulsed emission specify peak power). (D) Insert "MEAN" or "PEAK" (See definitions in Part 5). (E) List each type of emission separately for each frequency. (See Section 2.201 FCC Rules.) (F) Insert as appropriate for the type of modulation: (1) the maximum speed of keying in bauds; (2) maximum audio modulating frequency; (3) frequency deviation of carrier; (4) pulse duration and repetition rate. For complex emissions, describe in detail in the space provided below. (G) Describe how the necessary bandwidth was determined in space provided below. Note 1 contained in "Exhibit 1"																																																																														

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5(a). Proposed location of transmitter and transmitting antenna (Check only one box) ☐ FIXED/BASE ☒ MOBILE ☐ BASE & MOBILE			
(b) If permanently located at a fixed location, give below State _____ County _____ City or Town _____ Number and street (or other indication of location) _____		(d) If mobile, describe the exact area of operation Mt. Hood, Oregon	
(c) Geographical coordinates exact to the nearest second North Latitude _____ West Longitude _____		(e) Geographical coordinates of the approximate center of proposed area of operation (mobile applications) North Latitude <u>45° 22' 30"</u> West Longitude <u>121° 42' 30"</u>	
6. Is a directional antenna (other than radar) used? ☐ Yes ☒ No If "YES", give the following information: (a) Width of beam in degrees at the half-power point _____ (b) Orientation in horizontal plane _____ (c) Orientation in vertical plane _____			
7. Is this authorization to be used for fulfilling the requirement of a government contract with an agency of the United States Government? ☐ Yes ☒ No If "Yes", attach as EXHIBIT No. _____, a narrative statement describing the government project, agency, and contact number.			
8. Is this authorization to be used for the exclusive purpose of developing radio equipment for export to be employed by stations under the jurisdiction of a foreign government? ☐ Yes ☒ No If "Yes", attach as EXHIBIT No. _____, the following information: (a) The contract number and the name of the foreign government concerned.			
9. Is this authorization to be used for providing communications essential to a research project? (The radio communication is not the objective of the research project). ☐ Yes ☒ No If "Yes", attach as EXHIBIT No. _____, a narrative statement providing the following information: (a) A description of the nature of the research project being conducted. (b) A showing that the communications facilities requested are necessary for the research project involved. (c) A showing that existing communications facilities are inadequate.			
10. If all the answers to Items 7, 8, and 9, are "No", attach as EXHIBIT No. <u>2</u> , a narrative statement describing in detail the following: (a) The complete program of research and experimentation proposed including description of equipment and theory of operation. (b) The specific objectives sought to be accomplished. (c) How the program of experimentation has a reasonable promise of contribution to the development, extension, expansion, or utilization of the radio art, or is along line not already investigated.			
11. (a) Give an estimate of the length of time that will be required to complete the program of experimentation proposed in this application. (b) If less than 2 years, give the length of time in months that the authorization requested in this application will be required. <u>2 years</u>			
12. Would a Commission grant of this application come within Section 1.1307 of the FCC Rules, such that it may have a significant environmental impact? ☐ Yes ☒ No If you answer yes, submit an Environmental Assessment required by Section 1.1311.			

EXHIBIT D

13. List below transmitting equipment to be installed (if experimental, so state):		NO. OF UNITS			
MANUFACTURER Telonics	TYPE Experimental	106			
14. Is the equipment listed in Item 13 capable of station identification pursuant to Section 5.152?					
☐ Yes ☒ No See Exhibit # 3					
15. Will the antenna extend more than 6 meters above the ground, or if mounted on an existing building will it extend more than 6 meters above the building, or will the proposed antenna be mounted on an existing structure other than a building?					
☐ Yes ☒ No					
If "Yes", give the following (See Instruction 9):					
(a) Overall height above ground to tip of antenna is _____ meters.					
(b) Elevation of ground at antenna site above mean sea level is _____ meters.					
(c) Distance to nearest aircraft landing area is _____ kilometers.					
(d) List any natural formations of existing man-made structures (hills, trees, water tanks, towers, etc.) which, in the opinion of the applicant, would tend to shield the antenna from aircraft and thereby minimize the aeronautical hazard of the antenna.					
(e) Submit as EXHIBIT No. _____, a vertical profile sketch of total structure including supporting building, if any, giving heights in meters above ground for all significant features. Clearly indicate existing portion, noting particulars of aviation obstruction lighting already available.					
16. Applicant is (check only one box)					
☐ Individual ☐ Association ☐ Partnership ☐ Corporation ☒ Other (describe below) Non-profit Corporation					
17. Is applicant a foreign government or a representative of a foreign government?					
☐ Yes ☒ No					
18. Has applicant or any party to this application had any FCC station license or permit revoked or had any application for permit, license or renewal denied by this Commission?					
☐ Yes ☒ No					
If "Yes", attach as EXHIBIT No. _____, a statement giving call sign of license or permit revoked and relate circumstances.					
19. Will applicant be owner and operator of station?					
☐ Yes ☒ No					
20. Give name, title, and telephone number (include area code) of person who can best handle inquiries pertaining to this application.					
Scott Russell, President, 503-543-2434					
21. List below all exhibits in numerical sequence and the item number of form requiring the exhibit identified.					
EXHIBITS AND ITEM NO. OF FORM					
Exhibit Number	Item No. of Form	Exhibit Number	Item No. of Form	Exhibit Number	Item No. of Form
1	4				
2	10				
3	14				

EXHIBIT D

22. CERTIFICATION

ATTENTION: Read this certification carefully before signing this application.

THE APPLICANT CERTIFIES THAT:

- (a) Copies of the FCC Rules Parts 2 and 5 are on hand; and
- (b) Adequate financial appropriations have been made to carry on the program of experimentation which will be conducted by qualified personnel; and
- (c) All operations will be on an experimental basis in accordance with Part 5 and other applicable rules, and will be conducted in such a manner and at such a time as to preclude harmful interference to any authorized station; and
- (d) Grant of the authorization requested herein will not be construed as a finding on the part of the Commission
 - (1) that the frequencies and other technical parameters specified in the authorization are the best suited for the proposed program of experimentation, and
 - (2) that the applicant will be authorized to operate on any basis other than experimental, and
 - (3) that the Commission is obligated by the results of the experimental program to make provision in its rules including its table of frequency allocations for applicant's type of operation on a regularly licensed basis.

APPLICANT CERTIFIES FURTHER THAT:

- (e) All the statements in the application and attached exhibits are true, complete and correct to the best of the applicant's knowledge; and
- (f) The applicant is willing to finance and conduct the experimental program with full knowledge and understanding of the above limitations; and
- (g) The applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the USA.

Signed and dated this 30th day of OCTOBER, 19 87.

Name of Applicant Mountain Signal Memorial Fund, Inc

(correspond with name given on page 1)

By

SCOTT RUSSELL
(print)

Scott Russell
(signature)

Title President

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

Check Appropriate Classification:

- ☐ Individual Applicant
- ☐ Member of Applicant Partnership
- ☐ Office of Applicant Corporation or Association
- ☒ Authorized ~~Employee~~ Officer

NOTIFICATION TO INDIVIDUALS UNDER PRIVACY ACT OF 1974
AND THE PAPERWORK REDUCTION ACT OF 1980

Information requested through this form is authorized by the Communications Act of 1934, as amended, and specifically by Section 308 therein. The information will be used by Federal Communications Commission staff to determine eligibility for issuing authorizations in the use of the frequency spectrum and to effect the provisions of regulatory responsibilities rendered the Commission by the Act. Information requested by this form will be available to the public unless otherwise requested pursuant to Section 0.459 of FCC Rules and Regulations. Your response is required to obtain this authorization.

THE FOREGOING NOTICE IS REQUIRED BY THE PRIVACY ACT OF 1974, P.L. 93-579, DECEMBER 31, 1974, 5 U.S.C. 552a(e)(3), and the Paperwork Reduction Act of 1980, P.L. 96-511, December 11, 1980, 44 U.S.C. 3507.

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EXHIBIT # 1

Note 1: Transmitter is a subminiature device, designed to work into high impedance, physically forshortened $\lambda/4$ monopole antennas with essentially no ground plane surface. The transmitter, battery pack, and metal container, are an integral part of the radiating system. Direct connection is possible only to the principle radiating element. Conventional measurements equating to 50 OHM sources are therefore not possible.

Note 2: This transmitter is a very low power locating device which emits an RF pulse, 50ms in width, at a rate of ninety two pulses per minute (≈ 1.5 per second). The device is designed as an aid to assist searches in locating individuals trapped in the snow on Mt. Hood.

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EXHIBIT # 2

(a) The Mountain Signal Memorial Fund, INC. was formed after an incident on Mount Hood, May 13, 1986, when nine people died. Mt Hood is the second most frequently climbed mountain in the world. The south side is a large snow field devoid of land marks. When bad weather comes in, visibility is so limited (white out conditions) that one can not tell whether he is stepping on snow or the void caused by a glacial crevass.

Locating lost climbers on Mt. Hood has been a difficult and often non-productive procedure for at least fifty years. During bad weather conditions, the best refuge from the 100MPH+ winds and sub-freezing temperatures is to dig a snow cave. This makes the locating of lost people even more difficult. The sixty square mile search area now has an added third dimensional aspect. Searchers in May 1986 were within 100 feet of the snow cave the day following it's first occupation, during extreme weather conditions. They had no way of knowing they were within three miles of the cave. The weather cleared on the third day (an unusual occurrence.) The cave had been buried by the storm and it's occupants too weak to mark it's location for searchers. At the end of the fourth day, searchers luckily found the cave but unluckily time had taken the lives of 7 people in the cave.

Mountain Signal Memorial Fund has had correspondence with mountain climbing and search and rescue units in this country and abroad in order to adopt some type of locating system. No such system exists but many feel the need for such a system. The members of Mountain Signal Memorial Fund are people from the Federal, State and County organizations involved in search and rescue as well as the local division of Mountain Rescue, the Mt Hood Ski Patrol and concerned citizens. The system which best suits our needs, would use telemetry equipment similar to that used for animal tracking. Non-voice, non-two-way transmitters would be available to climbers to wear. A climber who desires to be found would turn on his transmitter. When a search is called out, searchers would monitor the frequency and search for climbers using portable receiving equipment. The transmitters would all utilize a common frequency, as transmission would only occur when the climber was needing to be located or during a short operational test of the equipment.

Six additional frequencies are required for use by search and rescue personnel. Three teams are normally deployed to search. Each team would have it's own frequency in order to provide locating assistance if that team should have trouble as well as providing orientation for the other

EXHIBIT D

EXHIBIT # 2 (cont)

teams. The three remaining transmitted frequencies would be placed at known locations for the purpose of finding the way back or marking obstacles (crevasses, avalanches, etc.) during a search.

(b) The goal of the Mountain Signal Memorial Fund, INC. is to enhance the effectiveness of climber search and rescue on the south side of Mt. Hood with the use or aid of a signal device system. The purpose of the Mountain Signal Memorial Fund, Inc steering committee is to select and implement the signal device system and insure continual support of that system through funding, training and periodic upgrading.

(c) This program has a reasonable promise of extending radio art to the mountain due to the financial backing from the public to this non-profit organization and the support of the entire local mountain search and rescue organizations. Search and rescue on mountains is usually a race against time. These radio transmitters could substantially reduce the amount of time to find lost climbers on Mt Hood.

EXHIBIT D

EXHIBIT # 3

Mountain Signal Memorial Fund seeks a waiver from station identification due to the equipment limitations. No voice transmission is provided for in this device. See Exhibit # 1, Notes 1 and 2 from item No. 4 of this FCC form 442.

FEDERAL COMMUNICATIONS COMMISSION
Washington, D.C. 20554

EXHIBIT E

Sept 24, 1990
Date

APPLICATION RETURN FORM

Return to:

Mountain Signal Memorial Fund, Inc.
31291 Raymond Creek Road
Seappaole, Oregon 97056

Reason(s) for Application Return

- ☐ No application/filing accompanied your submission.
- ☐ No remittance accompanied your submission.
- ☐ No Fee Processing Form (FCC Form 155) accompanied your submission.
- ☐ The amount of remittance was inconsistent with the value of the Fee Type Code, i.e., action requested.
- ☒ The Fee Processing Form (FCC Form 155) was incorrect or missing information.
- ☐ The submission was filed at the wrong location.

☒ Other: You have two different applications. You must have two fee processing forms (FCC FORM 155) and two checks for \$35 each. (one in a CCB (405) and one in OET (442))

Please refer to the enclosed fee filing guide for further instructions. Mail your completed application to the appropriate P.O. Box with Mellon Bank in Pittsburgh, Pennsylvania.

If you have any questions, please call (202) 632-FEES.

Sincerely,
Chief, Financial Management Division
Office of Managing Director

Oct. 5, 1990

From: Scott Russell, Pres.
Mountain Signal Memorial Fund
31291 Ray mond Creek Road
Scappoose, OR 97056

To: Federal Communications Commission
Experimental Radio Service
P.O.Box 358320
Pittsburgh, PA 15251-5320

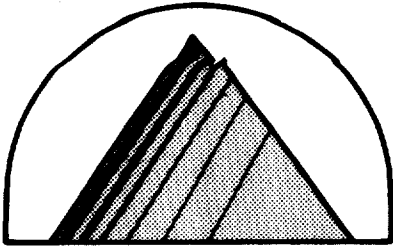
To whom it may concern:

Please process this Renewal of Radio Station License. I sent in check #227 for \$35.00 on August 31, 1990 with Form 155, Form 405, and the Exhibits A-D to help explain the problem of getting this License renewed. All of this was returned with a note (Exhibit E) explaining that two applications were being filed and that \$35.00 more was required. I phoned 632-FEES and talked with Ms. Shelby Jones who recommended that I resubmit the above with this letter. Hopefully this application can now be processed. The Exhibits are only added for your information and not for an additional license. Please call if you have further questions (503) 543-2434.

Sincerely,



Scott Russell



Mountain Signal Memorial Fund

Post Office Box 6320 Portland, Oregon 97208-6320

BOARD OF DIRECTORS

Honorary Chairman
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Steve Blaha
Randy Clark
Bill Gottlieb
Lt. Neil James
Donna Lamb
Lew Russell
Clyne Troxel

OFFICERS

President
Scott Russell

Vice President
Craig Petrie

Secretary
Kelly Tweatt

Treasurer
Karen Halvorsen

From: Scott Russell, President
Mountain Signal Memorial Fund
c/o 31291 Raymond Crk Rd
Scappoose, OR 97056

To: Zina Morrissey
Office of Engineering Technology
Room 7326
Federal Communications Commission
2025 M St N.W.
Washington, D.C. 20554

July 21, 1990

Dear Ms. Morrissey,

Recently I inquired of Mr. Wayne Craig, EIC of the Portland, Oregon FCC office as to the status of Mountain Signal Memorial Fund's request for a two year extension of our experimental license. Our original license was granted Feb, 1988. Evidently some confusion exists concerning this matter. I am enclosing the application dated Nov 2, 1987, the permit dated Feb 18, 1988, and the request for extension dated Jan 3, 1990. Thank you for your attention to straightening this matter out. Please feel free to phone me if you have further questions -(503)-543-2434.

Sincerely,


Scott Russell

EXHIBIT A

From: Scott Russell, President
Mountain Signal Memorial Fund
c/o 31291 Raymond Crk Rd
Scappoose, OR 97056

To: Zina Morrissey
Office of Engineering Technology
Room 7326
Federal Communications Commission
2025 M St N.W.
Washington, D.C. 20554

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Sincerely,

Scott Russell

EXHIBIT. B

From: Scott Russell, President
Mountain Signal Memorial Fund
31291 Raymond Creek Rd
Scappoose, OR 97056
(503) 543-2434

To: Mr. Frank Wright
Office of Engineering Technology
Frequency Liason Branch
Federal Communications Commission
1919 M Street, N.W.
Washington, D.C. 20554

January 3, 1990

Dear Mr. Wright,

This letter is a request for a two year extention of our experimental license granted in February of 1988, (File No. 0490-EX-PL-87). The MLU system was set up for locating lost climbers on Mt. Hood, Oregon. I am pleased to inform you that one hundred twenty eight climbing parties used the MLU System during the April '88-March '89 climbing season. No radio signal interference on our assigned frequencies have occured to my knowledge.

Sincerely,

Scott Russell

31291 Raymond Creek Rd., Scappoose, Oregon 97056

United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE

EXHIBIT C

EXPERIMENTAL
(Nature of Service)

K A 2 X T W
(Call Sign)

XR MO
(Class of Station)

0490-EX-PL-87
(File Number)

NAME MOUNTAIN SIGNAL MEMORIAL FUND, INC.

Mobile: Mount Hood, Oregon (45-22-30N; 121-42-30W.)

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications.

Frequency MHz	Authorized Power (Watts)	Emission Designator
168.180	1.1 milliwatt (ERP)	2K00P0N
168.220	1.1 milliwatt (ERP)	2K00P0N
168.260	1.1 milliwatt (ERP)	2K00P0N
168.540	1.1 milliwatt (ERP)	2K00P0N
168.570	1.1 milliwatt (ERP)	2K00P0N
168.640	1.1 milliwatt (ERP)	2K00P0N
168.730	1.1 milliwatt (ERP)	2K00P0N

Frequency Tolerance: $\pm 0.001\%$

Operation: In accordance with Sec. 5.202(a) of the Commission's Rules.

Special Condition:

The station identification requirements of Section 5.152 of the commission's rules are waived.

This authorization is effective February 18, 1988
will expire 3:00 A.M. EST June 1, 1989

FEDERAL
COMMUNICATIONS
COMMISSION

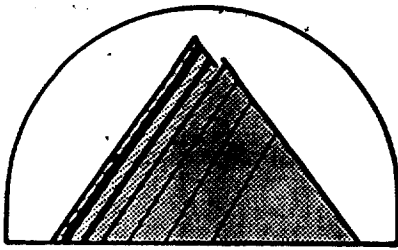


EXHIBIT D

Mountain Signal Memorial Fund

Post Office Box 6320 Portland, Oregon 97208-6320 (503) 293-2277

STEERING COMMITTEE

Honorary Chairman

Sen. Robert Packwood

Co-Chairmen

Scott Russell

Craig Petrie

Funding

Karen Halvorsen

Equipment

Scott Russell

Methodology & Implementation

Richard Kohnstamm

Insurance & Legal

Keith Petrie

Emergency Response

Al Radys

Public Relations

Craig Petrie

November 2, 1987

From: Scott Russell
Co-Chairman Mountain Signal Memorial Fund
31291 Raymond Crk Rd
Scappoose, Ore 97056

To: Mr. Frank Wright
Office of Engineering Technology
Frequency Liason Branch
Federal Communications Commission
1919 M Street, N.W.
Washington, D.C. 20554

Dear Mr. Wright,

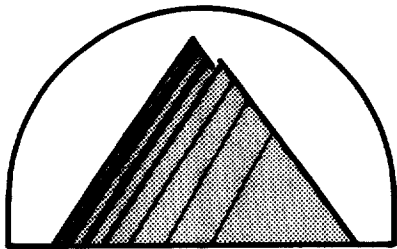
Please find the enclosed application for new radio station authorization FCC Form 442. Also included is an article from "Sports Illustrated" March 2, 1987 which further explains this endeavor. Feel free to contact me at:

31291 Raymond Crk Rd
Scappoose, Ore 97056
(503) 543-2434

Thank you for your consideration,

Sincerely,

Scott Russell



Mountain Signal Memorial Fund

Post Office Box 6320 Portland, Oregon 97208-6320 (503) 293-2277

STEERING COMMITTEE

Honorary Chairman

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Public Relations

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Mountain Signal Memorial Fund
31291 Raymond Creek Rd
Scappoose, OR 97056
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