

PREPARER'S CERTIFICATION

I certify that I have prepared Section V (Engineering Data) on behalf of the applicant, and that after such preparation, I have examined and found it to be accurate and true to the best of my knowledge and belief.

Name <i>Joseph Technician</i>	Relationship to Applicant (e.g., Consulting Engineer) <i>Consulting Engineer</i>	
Signature <i>Joseph Technician</i>	Date <i>6/1/00</i>	
Mailing Address <i>1234 Victory Parkway</i>		
City <i>...</i>	State or Country (if foreign address)	ZIP Code

WORKSHEET 2 - GENERAL ENVIRONMENTAL WORKSHEET

Commission grant of an application may have a significant environmental impact, thereby requiring an Environmental Assessment (EA). Applicants answering "Yes" to any question below must submit an Environmental Assessment, which is described in the instructions for Section V.

In order to respond "Yes" to Question 11 in Section V of the application, you must answer "No" to all 8 Questions.

Applicants that answered "No" to Question 8 below based upon information other than that in the attached RF Worksheet to support their RF compliance statement, may answer "No" to Question 11, Section V. However, such applications must include an exhibit demonstrating their compliance with the RF guidelines.

MY FACILITY:

1. involves high intensity white lighting located in residential neighborhoods. Yes No
 2. is located in an officially designated wilderness area or wildlife preserve. Yes No
 3. threatens the existence or habitat of endangered species. Yes No
 4. affects districts, sites, buildings, structures or objects significant in American history, architecture, archaeology, engineering or culture that are listed in the National Register of Historic Places or are eligible for listing. Yes No
 5. affects Indian religious sites. Yes No
 6. is located in a floodplain. Yes No
 7. requires construction that involved significant changes in surface features (e.g., wetland fill, deforestation or water diversion). Yes No
 8. does not comply with the FCC established guidelines regarding exposure to RF electromagnetic fields Yes No
- * as required in OTE Bulletin 65. Complete the worksheet on the following page for the

WORKSHEET 3 - RF EXPOSURE WORKSHEET

Complete one of the following sections.

1. A single LPFM station that does not share its tower with any other non-excluded RF sources (including, but not limited to, FM or TV transmitting antennas) and is located more than 315 meters (1,034 feet) from any other tower or non-excluded RF radiation sources.

LP100 stations: the maximum operating power (ERP) for your station will not exceed 100 watts.

- a. Enter the height above ground level to the lowest part of your antenna:
(If your antenna is mounted on a building or rooftop, use the height from the bottom of your tower or support structure to the lowest part of your antenna). *This value must be at least 6 meters (20 feet).*

119 M

- b. While your antenna is transmitting enter the minimum distance in any direction that will be maintained between any part of the radiating structure of the antenna and any nearby person or persons: *This value must be at least 4.1 meters (13 feet 5 inches).*

10 M

LP10 stations: the maximum ERP for your station will not exceed 10 watts.

- a. Enter the height above ground level to the lowest part of your antenna:
(If your antenna is mounted on a building or rooftop, use the height from the bottom of your tower or support structure to the lowest part of your antenna). *This value must be at least 3.1 meters (10 feet 2 inches).*
- b. While your antenna is transmitting enter the minimum distance in any direction that will be maintained between any part of the radiating structure of the antenna and any nearby person or persons: *This value must be at least 1.3 meters (4 feet 3 inches).*

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2. A single LPFM station on a tower that supports other non-excluded RF sources.

LP100 stations: the maximum ERP for your station will not exceed 100 watts.

Enter the height above ground level to the lowest part of your antenna:
(If your antenna is mounted on a building or rooftop, use the height from the bottom of your tower or support structure to the lowest part of your antenna). *This value must be at least 20 meters (65 feet 7 inches).*

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LP10 stations: the maximum ERP for your station will not exceed 10 watts.

Enter the height above ground level to the lowest part of your antenna:
(If your antenna is mounted on a building or rooftop, use the height from the bottom of your tower or support structure to the lowest part of your antenna). *This value must be at least 8*

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meters (26 feet 3 inches).

If a proposed station does not meet these minimum distance requirements it may not be in compliance with the Commission's radiofrequency exposure guidelines. In such cases, the applicant will need to perform an environmental evaluation for the proposed station and may have to submit an Environmental Assessment (EA). If the proposed station does not meet the minimum distance requirements, or if the proposed station doesn't fall under categories one or two above, the applicant should consult OET Bulletin 65 (and Supplement A to Bulletin 65) for further information on evaluating its site. In particular, see sections of the bulletin and supplement on "FM radio broadcast stations" and on "multiple transmitter sites." These documents are available from the following Web site: www.fcc.gov/oet/rfsafety or call: (202) 418-2464 to request copies. An applicant may also send requests or inquiries about RF safety requirements to: rfsafety@fcc.gov.

Technical and Engineering Referrals

This is a small sample of the engineers who are available to assist groups in filling out the technical section of FORM 318. There are many more engineers who can provide the same services. Variable rates exist because of differences in geographic, technical and other local conditions. All costs are subject to change.

N. Rubin, 5/00

Broadcast Engineering Services of Bonny Doon

Donald E. Mussell

415 Emerald Forest Lane

Bonny Doon, CA 95060

Voice: 831-420-1571

Fax: 831-457-8099

Smsml@well.com

www.well.com/~dmsml/

Don has been providing technical services to community radio stations for many years. On his web site, he says about LPFM, "If you are located within 20 miles of major city, (population 150,000+) the chance of finding an open low-power frequency is very slim. The promise of LPFM is not quite what it seems, and the number of new stations allowed will be very few. If you live in a rural area, or a small town over 20 miles from a major city, then it might be possible to fit in a new LPFM station."

Complete Application

Around \$500

Broadcast Signal Lab

David Maxson

64 Richdale Ave.

Cambridge MA 02140

Voice: 508-359-8833

DaMaxson@aol.com

www.Broadcastsignallab.com

David is one of the people who has provided sound technical support for LPFM from the start, including assisting with interference studies and related filings at the FCC.

Initial consultation and frequency search

\$ 150 - 250

Work to complete application

\$ 50 – 500 additional

Cavell, Mertz & Davis, Inc.

Richard Mertz

10300 Eaton Pl. #200

Fairfax, VA 22030

Voice: 703-591-0110

Fax: 703-591-0115

Info@cmdconsulting.com

www.lpfminfo.com

This is a large engineering firm that does many technical studies and telecommunications projects. They like LPFM and are willing to prepare application filings.

Complete applications

\$ 500 - 1000

Gray Frierson Haertig & Associates

Gray Haertig 820 N. River Street, #100

Portland OR 97227

Voice: 503-282-2989

Fax: 503-282-3181

Gfh@haertig.com

Gray has been constructing and providing technical support to community radio stations for many years. He suggests using the available free resources first, before contracting for engineering assistance.

Frequency Search

\$ 150

Complete application

\$ 250 – 500

Preparation of RF exhibit if needed

\$ 300

Other work as needed

\$ 75/hr