

**ENGINEERING EXHIBIT  
APPLICATION FOR CONSTRUCTION PERMIT  
RADIO STATION KWEI-FM  
FRUITLAND, IDAHO  
CH 258C0 22.0 KW 803 M  
FACILITY ID 67612**

Engineering Statement

The Engineering Exhibit consisting of this Statement and the attached Figures 1 and 2, was prepared on behalf of Treasure Valley Broadcasting Company, licensee of FM broadcast station KWEI-FM Fruitland, Idaho. Station KWEI-FM operates on Channel 258 with effective radiated power of 8 kilowatts with antenna height above average terrain of 803 meters. The station is classified as Class C1.

By means of this minor change application, Treasure Valley proposes to increase the effective radiated power to 22 kilowatts, with no other changes proposed. The new facility will be classified as Class C0.

Figure 1 is a separation study which demonstrates that KWEI-FM can operate as a Class C0 station and meet all allocation requirements.

Figure 2 is a map showing the predicted 70 dBu and 60 dBu contours. As will be noted, all of Fruitland is within the predicted 70 dBu contour.

The proposed facility was evaluated in terms of potential radiofrequency radiation exposure at ground level in accordance with OET Bulletin 65, "*Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Field*" August 1997. Based on the method shown therein, it was determined that the power density at ground level at the base of the

tower would be 0.115 milliwatts per centimeter squared, or approximately 57 percent of the limit for an uncontrolled environment. A relative field of 0.35 was assumed for the calculation. If it becomes necessary for workers to ascend the tower, the power will be reduced or the station taken off the air so as to prevent exposure in excess of the prescribed limit.



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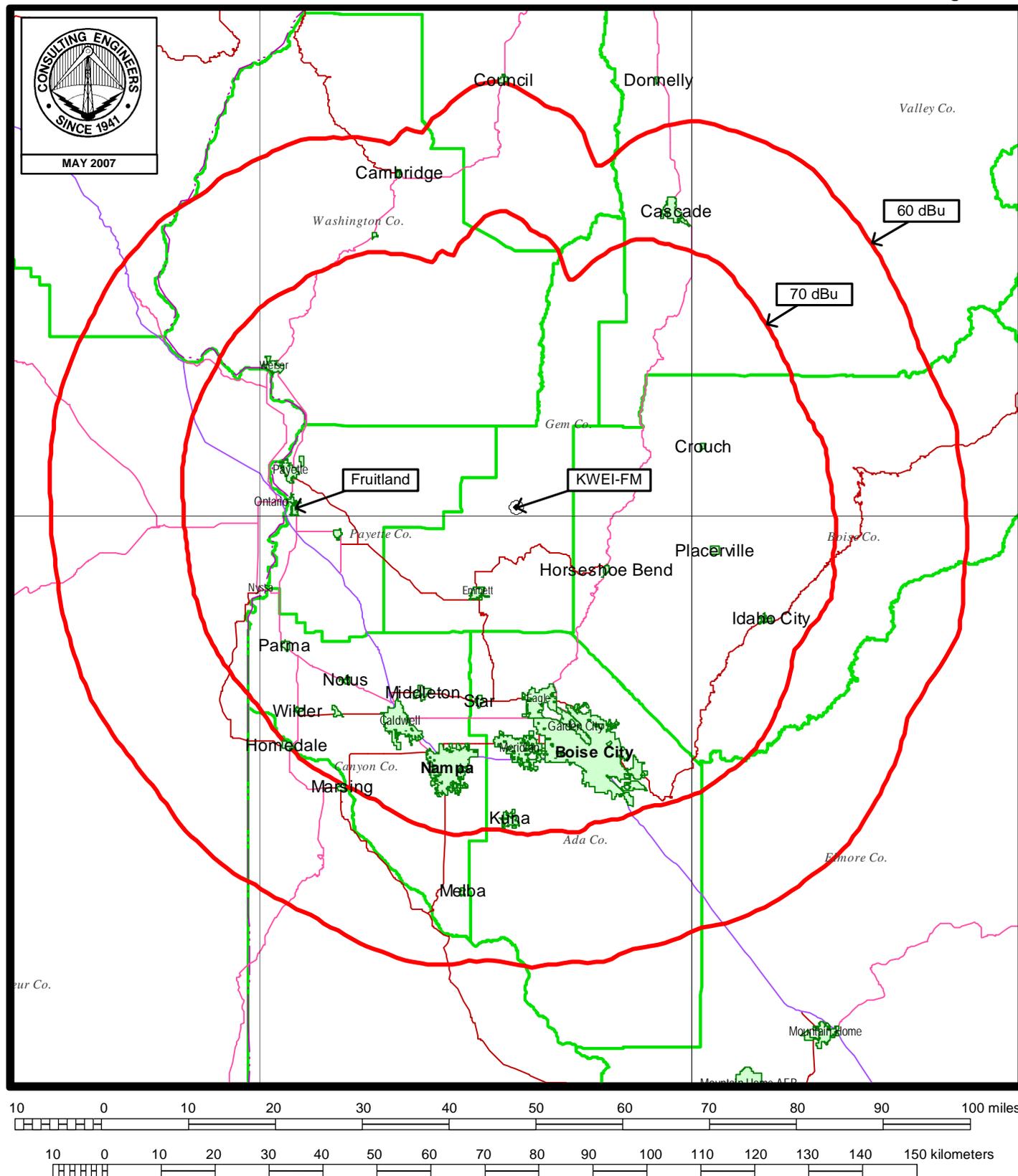
May 1, 2007

Figure 1

**RADIO STATION KWEI-FM  
FRUITLAND, IDAHO  
CH 258CO 22.0 KW 803M**

Separation Study

<b>Call Id</b>	<b>City St</b>	<b>Status</b>	<b>File Num</b>	<b>Channel Freq</b>	<b>ERP HAAT</b>	<b>DA Id</b>	<b>Latitude Longitude</b>	<b>73 215</b>	<b>Bear</b>	<b>Dist. (km)</b>	<b>Req. (km)</b>
931206 61307	MIDDLETON ID	APP C	BPED 19931206MB	204 C1 88.7	5.000 791	N	43-45-18 116-05-52	N	139.7	38.05 1.05	37.0 Close
KTPD 72658	MOUNTAIN ID	LIC C	HO BLH 19971106KE	256 C 99.1	80.000 668	N	43-14-43 115-26-12	N	137.4	115.89 10.89	105.0 Close
KWEI-FM 67612	FRUITLAND ID	LIC C	BLH 19940629KB	258 C1 99.5	8.000 803	N	44-00-58 116-24-15	N	90.0	0.00 -259.00	259.0 Short
KZZL-FM 26412	PULLMAN WA	RSV C		258 C 99.5	0.000	N	46-40-29 116-58-19	N	351.7	298.80 17.80	281.0 Clear
KZZL-FM 26412	PULLMAN WA	LIC C	BMLH 20020920AAD	258 C1 99.5	81.000 323	N	46-40-52 116-58-16	N	351.7	299.50 40.50	259.0 Clear



## PREDICTED COVERAGE CONTOURS

TREASURE VALLEY BROADCASTING COMPANY

FRUITLAND, IDAHO

CH 258C0 22.0 KW 803 M

du Treil, Lundin & Rackley, Inc. Sarasota, Florida