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## ENGINEERING REPORT

### APPLICATION FOR CONSTRUCTION PERMIT for FACILITIES CHANGE: NEW TRANSMITTER SITE & POWER INCREASE

KJR (AM) 950 kHz  
SEATTLE, WASHINGTON  
50 kW DA-2

Ackerley Media Group, Inc.

November 2001

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## 1. Purpose of Application

This engineering report is part of an application by Ackerley Media Group to move KJR (AM) Seattle, WA to a new transmitter site and increase power to 50 kW. The proposed operation will be at the licensed site of KGNW (AM) Burien-Seattle.

## 2. Allocation Considerations

All computations contained in this report are based on data taken from the October 24, 2001 edition of the FCC AM database. Region II conductivities were used in all cases, with the exception of the proposed KJR site, where measured conductivity data was used. This data is from the 1984 directional antenna proof of performance for KGNW (AM) 820 kHz Burien-Seattle, WA. In addition, where measured conductivity was not used (for the proposed KJR site), the Region II values for the waters of Puget Sound have been adjusted from 5000 ms to 40 or 8 ms according to the terms of *Letter to Auburn Broadcasters*.

### a. Daytime

The proposed 50kW directional operation will not cause prohibited overlap with any known station in the U. S. or Canada, as shown in exhibits 14-1 through 14-4. As there are no Class A stations in the US or Canada on 950 kHz, there is no Critical Hours operation. (same as daytime operation)

### b. Nighttime

All domestic stations on 950 kHz and 1<sup>st</sup> adjacent channels, and all co-channel international stations within 10,000 km were considered in the preparation of Exhibit 15-1, the limits to the proposed operation. Only those stations with limits below 5,000 mV/m are shown in the exhibit. RSS calculations for individual stations are provided in Exhibit 15-2 for all stations where KJR is a contributor.

### 3. Facilities Proposed

Ackerley Media Group, Inc. proposes continued operation of KJR on 950 kHz with an operating power of 50 kW, using different directional patterns for daytime and nighttime operation. (DA-2) The proposed operation will be diplexed on the array of KGNW (AM) Burien-Seattle, WA. No new tower construction is proposed.

Antenna tower access is restricted by a fences with locked gates that are greater than 2 meters from the tower bases as required by OST-65. The antenna towers are posted with warning signs, and all station personnel and contractors will be required to follow appropriate safety procedures before any work is commenced on the antenna towers, including reduction in power or discontinuance of operation before any maintenance work is undertaken.

## 6. Statement of Engineer

This Engineering Report, relative to a change in transmitter location and power increase for KJR (AM) Seattle, Washington has been prepared under my direct supervision. All representations contained herein are true to the best of my knowledge. I am an experienced radio engineer whose qualifications are a matter of record with the Federal Communications Commission. I am an engineer in the firm of Hatfield and Dawson Consulting Engineers and am Registered as a Professional Engineer in the State of Washington.

Signed this 16th day of November, 2001



Thomas S. Gorton, P.E.

Hatfield & Dawson Consulting Engineers