



ENGINEERING EXHIBIT
DETAILING PUBLIC INTEREST BENEFITS

WWDJ is presently licensed to operate on 970 kHz with a power of 5.0 kW daytime and nighttime using different directional patterns for day and night operation. It is proposed to increase the daytime power to 50 kW and modify the daytime directional antenna pattern. No changes are proposed to the nighttime operation.

The instant application is being filed pursuant to Section 73.3517(c) in an interference reduction arrangement with WAMD, 970 kHz, Aberdeen, Maryland, for which a contingent application is being filed concurrently. WAMD proposes to reduce daytime power from 0.5 kW to 0.3 kW.

The groundwave signal strength required to render primary service is 2.0 mV/m for communities with populations equal to or greater than 2,500 persons. For communities with populations less than 2,500 persons, the 0.5 mV/m is considered primary service.

Granting both applications would result in a gain of 3,372,578¹ persons receiving a primary daytime signal from WWDJ and a loss of 54,035² persons receiving a primary 0.5 mV/m daytime signal from WAMD. The total net effect is 3,318,543 additional persons receiving a primary daytime service from the interference reduction arrangement proposed between WWDJ and WAMD.

¹WWDJ licensed day serves 10,523,807 persons. WWDJ, as proposed, will serve 13,896,385 persons with its primary daytime signal.

²WAMD licensed day serves 329,092 persons. WAMD, as proposed, will serve 275,057 persons with a primary daytime signal.