

# Radiotechniques

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402 Tenth Ave. • PO Box 367 • Haddon Heights, NJ 08035-0367

## Engineering Statement Exhibit 13

### Channel 6 Protection to WPVI-TV W220AA relocation September 2002

W220AA is located within the grade B service area of WPVI-TV, Philadelphia, PA, and this minor change application seeks to change the antenna location of W220AA to another location within the WPVI-TV grade B contour and increase power.

This application seeks to relocate the transmitter to an industrial area from a densely populated business/residential area. The nearby area in the main lobe of the directional antenna proposed covers the flood plain of the Raritan River which will never be populated, due to its flood plain nature.

Since the present facility is within the WPVI-TV grade B service area, this application evaluates the potential for interference to WPVI-TV utilizing the standards of FCC Rules 73.525, the standards for allocating NCE-FM full service stations.

The following factors apply:

- 1) The area of potential interference to WPVI-TV is entirely outside the Area of Dominant Influence for WPVI-TV and entirely within the Grade A contour of WABC TV, which carries the same network and is co-owned with WPVI-TV.
- 2) The proposed area of potential interference lies entirely within Keasby, NJ, a community with a population, according to the 2000 Census of 2746 persons. The proposed operation is for vertical polarization only, and therefore the ERP is adjusted by 40:1 as described in FCC rules 73.525(e)(4)(I).
- 3) The 49.7 dbuV F(50,50) contour of WPVI passes through the proposed antenna location. The protection ratio (U/D) for this field, at this channel from figure 2 of FCC rules section 73.599 is 36 db, for a "Just Perceptible interference" interfering contour of

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85.7 dbuV. The population within this proposed contour is 0 persons.

4) The licensed operation utilizes circular polarization, and has the 51 dbuV F(50,50) contour of WPVI passes through the antenna location. The protection ratio (U/D) for this field, at this channel from figure 2 of FCC rules section 73.599 is 33.5 db, for a “Just Perceptible interference” interfering contour of 84.5 dbuV. The population within this licensed interfering contour is 3179 persons.

Exhibit 13 Figure 1 is a map showing the WPVI-FM 47 (Red), 49.7 (Orange), and 51 dbuV (Yellow) F(50,50) contours, along with the W220AA proposed and licensed “Just Noticeable Interference” contours (Green)

In summary, if this was an NCE-FM station, interference to WPVI at the proposed site would not be considered, due to the WABC-TV service. In any case the population that could be subject to interference is reduced from a substantial amount to zero by this proposal.