

## **Engineering Statement**

### **WNYW Post-Transition Construction Permit Channel 27 New York, NY**

#### **Relocation from Empire State Building to One World Trade**

This construction permit modification application is to relocate the post-transition construction permit for WNYW (channel 27) from the Empire State Building to the One World Trade Building. In order to accommodate T-Mobile's early operation in spectrum they purchased in the recently concluded Incentive Auction, Fox Television Stations, LLC sister station WWOR has agreed to transition early to its Post-Transition channel and relocate its facility to One World Trade.

However, that relocation requires that WNYW and WWOR-TV move to One World Trade together. Both stations will be combined into the existing master antenna system at One World Trade. Please note that WNYW will not transition to its post-transition channel early but needs to have the assurance that the relocation to One World Trade is authorized for both WNYW and WWOR (also is applying for a CP Modification) to make the move feasible.

In order to preserve the current WNYW service level, it is proposed to operate from the new location with an effective radiated power (ERP) of 50 kW. However, at that ERP level, due to the 4.5 km move and the difference in the current antenna pattern versus the new master antenna at One World Trade the contour exceeds the 1% limit in some areas. Previously an ERP of 69.2 kW was discussed with the Commission staff; however, the staff was uncomfortable with that level and suggested the 50 kW level proposed in this application as an alternative.

At proposed 50.0 kW level all the Post-Repack allotments, including the granted construction permits, are protected with the worst case interference being 0.31% to the WFUT-TV Post-Repack construction permit. Interference to all other stations is less than would be caused by the WNYW Repack Allotment facility. A copy of the relevant TVStudy analysis is attached.