

**Engineering Statement
and
Explanation of Potential Section 74.793(h) Violation**

**Channel Displacement Application of WYFX-LD Youngstown, OH
April 17, 2018**

This Engineering Statement has been prepared on behalf of NEXSTAR BROADCASTING, INC. (NEXSTAR), licensee of television station WYFX-LD Youngstown, OH. WYFX-LD currently operates on channel 19 and is being displaced by the Incentive Auction repack allotments of channel 19 to WKYC Cleveland, OH (94.6 km) and channel 20 to WPGH Pittsburgh, PA (82.5 km).

An analysis using the FCC's TVStudy software and its default settings has indicated that WYFX-LD could move to channel 32 and operate with an effective radiated power (ERP) of 15.0 kW from its current location utilizing a non-directional antenna pattern, 3.0 degrees of electrical beam tilt and a radiation center of 742 meters above mean sea level. This facility will allow WYFX-LD to maintain reasonable coverage of its current service area. The only predicted interference caused above the de minimis limit would be to the unbuilt and displaced Construction Permit (CP) facility of WRAP-LP channel 32 Cleveland, OH (File No: BLANK0000001539, Facility ID: 55107).

The WRAP-LP CP facility is being displaced in that it would cause 9.27% new interference to the CP facility of WYTV channel 31 Youngstown, OH, 16.41% new interference to the pending application facility of WYTV channel 31 Youngstown, OH and 9.87% new interference to the CP facility of WFMJ-TV channel 33 Youngstown, OH (See attached TVStudy analysis results file). It has been determined that WRAP-LP would need to reduce power to 0.113 kW to eliminate the interference to the post-repack facilities of WYTV and WFMJ-TV. At that power level, interference from the proposed WYFX-LD facility to WRAP-LP would be below the de minimis limit (See attached TVStudy analysis results file) and still allow WRAP-LP to have a predicted interference free service population of 1,432,559. In view of this, it is believed that there would be no violation of the FCC Rules Section 74.793(h).