

A quick Google reveals a spotted history for WOR shortwave operations.

In 1928 WOR had W2XAQ which was an RPU used from airplanes and on ships at sea including the Queen Mary. They also had W2XCX in Kearny (50 watts) in 1928. In the early 30s they operated an experimental broadcast station W2XJL on 11 meters at 100 watts. In the late 30s they simulcast experimental FAX transmissions late at night on 710 and on W2XUP also on 11 meters.

The newspaper article you mention was probably about the planned inauguration of W2XHL which would be at the same time in 1934 that the station moved to Carteret NJ and increased power to 50 KW. That project was abandoned in 1935. In the late 30s and early 40s WOR was often relayed by the PWI station in Hicksville LI.

In the NYC area it was NBC and CBS that had major shortwave facilities with high powered shortwave transmitters and antenna arrays capable of operating on multiple bands and various azimuths. These were not affiliated with the local stations there but were separately programmed directly from the networks. But as far as I can tell, no single station ever got into SW broadcasting as heavily as WLW. WWII effectively killed commercial shortwave broadcasting.

In Canada there are still a few stations that relay domestic MW programming. CFRX that relays CFRB is most notable as it has been on air most of the time since 1937.