

WHPK FM, Chicago; Request for Special Temporary Authorization
Exhibit 4
Prepared July 15, 2013

WHPK FM, 88.5 MHz, licensed to the University of Chicago, operates from the Reynolds Club, 5701 South University Avenue, Chicago, Illinois.

WHPK's current transmitter site is atop Pierce Hall, at 55th Street and University Avenue. The station operates with an effective radiated power of 100 watts and an antenna HAAT of 37 meters.

The Licensee has filed with the Commission Form 340 requesting a minor change to move its transmitter site from the current location, 41° 47' 40.00"N Latitude, 87° 35' 55.00"W Longitude (NAD 27), to 6031 South Ellis Avenue, 41° 47' 3.87"N Latitude, 87° 36' 1.02"W Longitude (NAD 27), a distance of 1.12 kilometers.

The proposed move and filing are due to the impending demolition of Pierce Hall, the current location of the transmitter site.

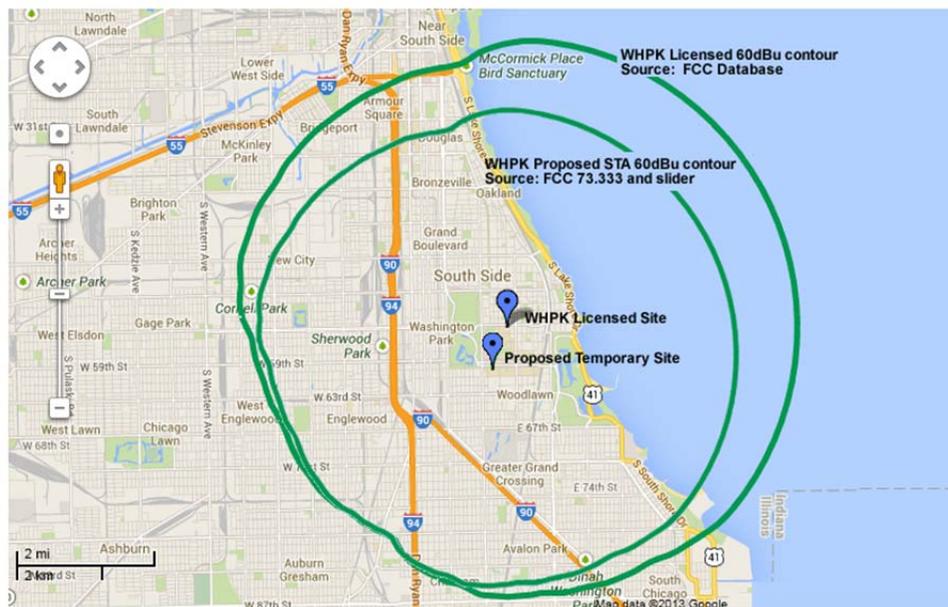
WHPK requests this Special Temporary Authorization ("STA") because the plans for the demolition of Pierce Hall changed. The demolition was originally scheduled for August 2014, and the station was so advised. In February 2013, however, WHPK was advised that demolition had been advanced a full year to August 2013 – approximately three weeks from the date of this application. The change of demolition date was beyond the control of the station.

Upon learning of the accelerated schedule for the demolition of Pierce Hall, station ownership began to search for a new transmitter site and to prepare Form 340 to relocate the WHPK antenna and Form 601 to move the companion studio transmitter link. Identifying a suitable new site, however, delayed the filing of both applications. Upon identification of a suitable site, WHPK promptly prepared and filed Form 340, ordered the pre-notification service for the relocation of its STL, and filed Form 601.

Since demolition is scheduled to begin on approximately August 8, 2013, and in order to maintain continuing service to the public, WHPK submits this request for STA, which seeks authorization to operate from a temporary site with a temporary antenna as follows:

- A temporary FM antenna would be installed atop the University's building at 6031 South Ellis Avenue, approximately 20 meters north from the site proposed in form 340 at 41° 47' 3.98"N Latitude, 87° 36' 1.0" W Longitude.
- The proposed antenna would be a vertically polarized j-pole, mounted on a 3.3 meter non-penetrating roof mount pole atop the building's penthouse. The location will yield a HAAT of 42.5 meters.
- The Antenna is to be fed with 33 meters of RG-8U, with a total loss of 1.95dB at 88.5MHz.
- The Calculated gain of the j-pole antenna is 3.4dBi.
- The system gain is 1.45dB (antenna gain of 3.4dB minus 1.95dB transmission line losses).

- This request proposes reducing the effective radiated power to 79 watts (2dB) compared to the licensed power of 100 watts. The resultant coverage area reduction is incorporated in order to avoid interference to WHFH, Flossmoor, Illinois, by not permitting the 60dBu contour between 185 degrees true and 230 degrees true to exceed that currently licensed to WHPK (see map below).
- To achieve the ERP of 79 watts, the antenna input must be reduced by 3.4 dB (antenna gain dBi) to 36 watts. With a transmission line loss of 1.95 dB, the input to the line (TPO) becomes 57 watts.
- Antenna power gain = 3.4dB
Line losses = 1.95dB
Desired power reduction = 2dB
 $3.4 + 1.95 - 2 = 1.47\text{dB}$
TPO = 57 watts.
- A TPO of 57 watts and an ERP of 79 watts yields the projected coverage as shown by the inner contour on the map below.



WHPK Comparison of licensed 60dBu contour and predicted 60 dBu service contour (vertical polarization only) with proposed temporary antenna at temporary location

Incorporated in this request is a request to operate at the reduced power and reduced coverage area as proposed above. It is important to note that much of the reduction of the 60dBu contour is over water while coverage is maintained over most of the WHPK licensed coverage area.

WHPK offers a valuable broadcast alternative to the south side of Chicago as well as to the University of Chicago campus. Station programming includes multiple local public affairs programs and discussions and music formats not available elsewhere including live local musical performances.

Also requested as part of this STA is approval to operate WHPK's studio transmitter link WLO253 under the terms of the recently filed Form 601.

The anticipated length of the STA is 90 to 180 days. As stated above, Forms 340 and 601 have been filed. If they are approved, the station will proceed according to the plans proposed in

those Forms. If the Commission has questions or concerns, WHPK will move as quickly as possible to propose an alternative solution.

Prepared by: Leonard C. Watson Scope+Focus, Inc. 860 W. Buckingham Chicago, IL 60657
Telephone: 773 248 5100 (cellular) 904 923 6687 len@scopefocus.com