

**TECHNICAL STATEMENT
RE: MINOR MODIFICATION OF
LICENSED FACILITY, LMS FILE NO. 0000068624
WPTA 592 KW-DA 228.6 M HAAT CH. 24
FORT WAYNE, INDIANA**

INTRODUCTION

WPTA License, LLC (the “Applicant”), the licensee of digital television broadcast station WPTA Ch. 24 Fort Wayne, IN, Facility ID No. 73905, submits this application to expand the station’s noise-limited contour beyond the current licensed facility through an increase in effective radiated power (ERP). This request to increase power for WPTA is eligible for processing under the normal minor modification criteria in 47 CFR §73.3572.¹

PROPOSED MINOR MODIFICATION

As stated above, the Applicant is requesting prior FCC authority to expand WPTA’s licensed noise-limited contour through an increase in ERP. More specifically, the Applicant proposes to increase the station’s maximum ERP to 592 kW using the station’s existing antenna, which is a horizontally polarized directional antenna, Dielectric Model TUA-O4-10/40H-1-T-R. No other change to the station’s licensed facility is specified.

INTERFERENCE PROTECTION

The proposed power increase for WPTA does not exceed the interference protection requirements to other full-service television and Class A TV broadcast stations in accordance with the criteria in 47 CFR §73.616. A detailed *TVStudy* analysis was performed to evaluate

¹ See *Media Bureau Lifts Freeze On The Filing Of Television Station Minor Modification Applications And Rulemaking Petitions Effective Fifteen Days After Publication In The Federal Register*, Public Notice, DA 20-1269 (rel. Oct. 29, 2020).



the proposal and attached as Figure 1 is a copy of the analysis summary, which indicates no interference check failures were found.² The following analysis settings were used:

Study cell size: 2.0 km
Profile resolution: 1.0 km

ENVIRONMENTAL IMPACT

For all of the reasons stated below, this application is categorically excluded from environmental processing in accordance with 47 CFR §1.1306. The criteria outlined in §1.1307(a) for certain types of facilities that may significantly affect the environment do not apply in this case because WPTA will continue to utilize its existing panel antenna system and supporting tower structure. The proposed power increase is also not predicted to exceed the rules concerning human exposure to radio-frequency (RF) energy in §1.1307(b). This determination was made using the following technical parameters:

Frequency:	530 - 536 MHz (UHF Channel 24)
Effective Radiated Power:	592 kW
Antenna Type:	DIE TUA-O4-10/40H-1-T-R
Antenna Polarization:	Horizontal
Rotation:	40 degrees
Antenna Height AGL:	227.9 meters
Location coordinates NAD83:	41-06-07.6 N, 85-11-03.6 W
Site elevation AMSL:	248.7 meters
Overall tower height AGL:	235.0 meters
FCC ASRN:	1306723

Using the FCC methodology for predicting power density levels for television broadcast antennas, the proposed facility modification is calculated to result in a maximum power density of 3.88 $\mu\text{W}/\text{cm}^2$ at points 2 meters above ground (approximate human head height).³ This exposure level was determined using 10 percent antenna relative field, which is generally

² TVStudy Program - Version 2.2.5 was used in connection with the 2.0 km default cell size in 47 CFR §73.616(e)(1).

³ See FCC OET Bulletin No. 65, Edition 97-01 (OET-65), Equation 10.



considered to be a typical value for UHF antennas. The maximum exposure limits applicable to Channel 24, as determined in accordance with 47 CFR §1.1310 for uncontrolled and controlled situations, are $353 \mu\text{W}/\text{cm}^2$ and $1,767 \mu\text{W}/\text{cm}^2$ respectively. Because the worst-case exposure level determined for WPTA is not more than 5% of those guidelines, no further showing of compliance is necessary.

Appropriate warning signs to establish awareness of the potential for exposure in excess of the MPE limits are posted at the site. With regard to occupational exposure, all persons authorized to access the site, tower or antenna will be protected from excessive exposure to RF fields in accordance with the methods recommended in OET-65. The station will also reduce power or cease operation in coordination with other site users.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Scott Turpie', written over a horizontal line.

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Attachment
Figure 1 – TVStudy Results