COMPREHENSIVE TECHNICAL EXHIBIT APPLICATION FOR CONSTRUCTION PERMIT

WEAZ-LD – BATON ROUGE, LOUISIANA FACILITY ID: 190207

DIGITAL NETWORKS-SOUTHEAST, LLC

FEBRUARY 2021

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APPLICATION FOR CONSTRUCTION PERMIT

The following engineering statement and attached exhibits have been prepared for **Digital**

Networks-Southeast, LLC ("Southeast"), licensee of digital low power television station WEAZ-LD

at Baton Rouge, Louisiana, and are in support of their application for construction permit. This

application proposes a relocation of the licensed facility.

WEAZ-LD is licensed to operate on television channel 26 as a digital low-power television

facility. The station is authorized to operate with a maximum effective radiated power of 2 kW at a

center of radiation of 98.6 meters above mean sea level, 30 meters above ground, using a

composite directional antenna. The proposed center of radiation is 53.2 meters above mean sea

level, which corresponds to 30.0 meters above ground level, or 26.6 meters above average terrain.

The composite directional antenna proposed for use by the facility consists of two Kathrein-Scala

PR-TV antennas with equal power division between them. Once of the antennas in the array

would be oriented at 60 degrees true, while the other would be oriented at 270 degrees true. The

proposed maximum ERP for WEAZ-LD is 1.70 kW.

The proposed relocation of the facility would be consistent with the provisions of Section

73.3572 of the Commission's Rules. Exhibit E-1 illustrates the predicted 51 dBu F(50,90) service

contour from the licensed WEAZ-LD facility, as well as the corresponding contour from the

proposed facility. As this map demonstrates, the respective service contours overlap each other.

Additionally, the two sites are located fewer than thirty miles apart.

¹ The Facility ID for WEAZ-LD at Baton Rouge, Louisiana is 190207.

The proposed technical parameters would not result in interference to other proposed.

authorized, or licensed facilities in excess of that permitted under the Commission's Rules. Exhibit

E-2 provides tabular output from *TVStudy*. This study demonstrates that the proposed technical

parameters would not result in impermissible interference, and that no interference check failures

exist.

The proposed facility would not constitute a significant environmental impact, and is exempt

from environmental processing. The proposed antenna would be mounted to an existing tower

that does not require registration with the Commission. The addition of the antenna to this tower

would not increase the existing environmental impact already present from the tower.

Using the equations in Supplement A of OET Bulletin 65, the calculated worst-case power

density at ground level assuming a downward radiation relative field of 0.3 is 6.52 μ W/cm². This

value is less than the upper limit of the uncontrolled environment condition upper limit. There are

no other broadcast facilities authorized to use the proposed tower.

Southeast certifies it will coordinate with all other users of the site to ensure that workers

and other personnel are not exposed to levels of radiofrequency radiation in excess of the

applicable safety standards. Coordination activities will include, but are not necessarily limited to,

a reduction in transmitter power or cessation of operation.

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The preceding statement and attached exhibits have been prepared by me, or under my direction, and are true and accurate to the best of my belief and knowledge.

Above signature is digitized copy of actual signature
License Expires November 30, 2021

Jeremy D. Ruck, PE February 6, 2021

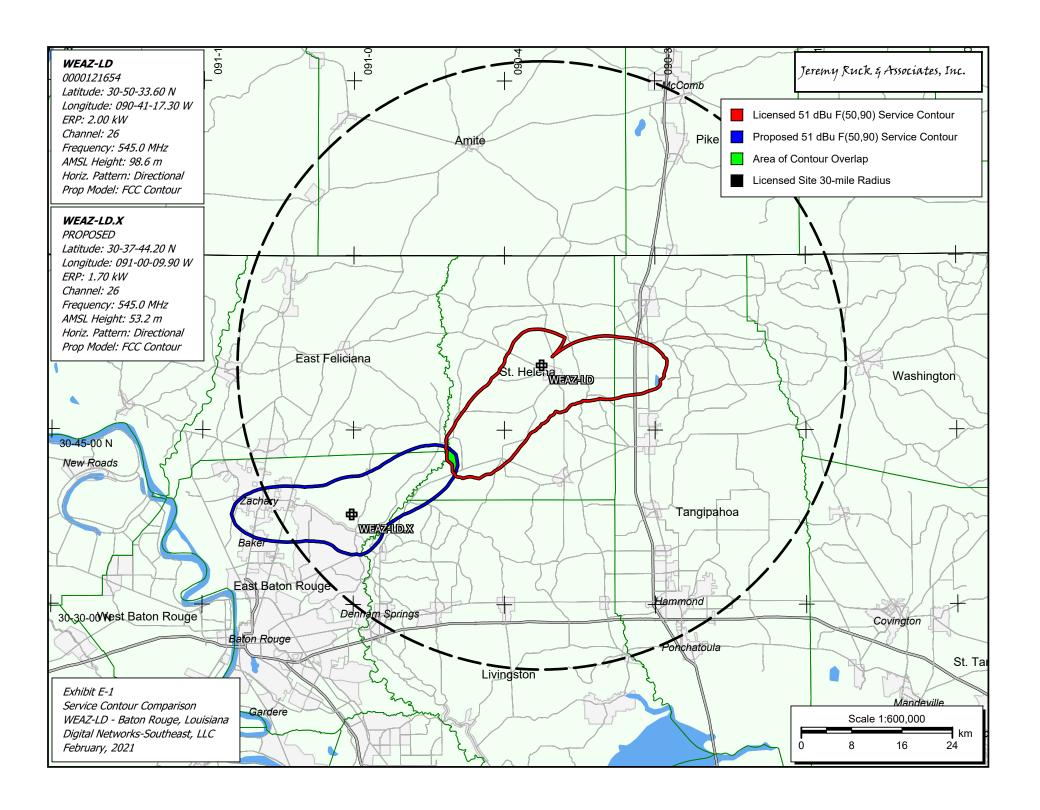


Exhibit E-2 - TVStudy Interference Study

tvstudy v2.2.5 (4uoc83) Database: 127.0.0.1, Study: WEAZ-LD CH 26 ASRN 1034996 53.2 m AMSL 1.7 kW ERP PR-TV x2 1060 10270, Model: Longley-Rice Start: 2021.02.06 11:59:42 Study created: 2021.02.06 11:59:42 Study build station data: LMS TV 2021-01-30 Proposal: WEAZ-LD D26 LD LIC Baton rouge, LA File number: BLANK0000121654 Facility ID: 190207 Station data: User record Record ID: 285 Country: U.S. Build options: Protect pre-transition records not on baseline channel Stations potentially affected by proposal: Call File Number Distance ΤX Chan Svc Status City, State BLTTL19990104JE WSTY-LP N23-TX LIC HAMMOND, LA 50.5 km No BLANK0000054048 BLANK0000035855 K33MP-D D25 LD CP ALEXANDRIA, LA 149.6 No WLPB-TV No D25 DT CP BATON ROUGE, LA 34.4 DT LIC BLEDT20101201ALR WLPB-TV D25 BATON ROUGE, LA No BLANK0000090276 Nο WXXV-TV D25 DT LIC GULFPORT, MS 186.3 LD LIC LD CP BLANK0000080841 BLANK0000071985 No WEDS-LD D2.6 MOBILE, AL 304.2 W26FC-D D26 Nο D26 LD CP D26 DT LIC TUSCALOOSA, AL 397.5 ALEXANDRIA, LA BLANK0000078715 157.9 No KBCA DT LIC TX LIC BLCDT20121019AAK BLTTL19940527JF WGNO Nο D2.6 NEW ORLEANS, LA 125.5 No W26BB N26+ VICKSBURG, MS 193.0 LD CP BDFCDTL20090818ABI No W26BB D26 VICKSBURG, MS 193.1 D26 No KRIV DT CP HOUSTON, TX BLANK0000035805 447.4 D'1 LD CP DT LIC TX LIC BLCDT20111212AHM BLANK0000074302 No KRIV D26 HOUSTON, TX KULC-LD D26 PORT ARTHUR, TX 295.8 Nο KTAL-TV D26 TEXARKANA, TX BLANK0000073076 380.0 No BLTTL20060714ACI KWCE-LP N27-153.3 No ALEXANDRIA, LA No K27NB-D D27 LD LIC BATON ROUGE, LA BLANK0000103489 42.7 DT LIC NEW ORLEANS, LA BLANK0000109373 WWL-TV D27 122.5 No No W42CW D27z LD CP HATTIESBURG, MS BLANK0000054571 172.9 Nο W06DD N30z TX LIC NATCHEZ, MS BLTTL20060103ABY 112.4 No non-directional AM stations found within 0.8 km No directional AM stations found within 3.2 km Record parameters as studied: Channel: D26 Mask: Full Service Latitude: 30 37 44.20 N (NAD83) Longitude: 91 0 9.90 W Height AMSL: 53.2 m HAAT: 26.6 m Peak ERP: 1.70 kW Antenna: SCA PR-TV x2 Array 1060 10270 0.0 deg Elev Pattrn: Generic 50.0 dBu contour:

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P.O. Box 415 221 S. 1st Avenue Canton, IL 61520

HAAT Distance 13.5 m 6.4 km

> 16.2 8.8

6.4

6.7

20.4

6.6

6.9

19.1

34.5

36.6 33.1

28.1

19.1

Tel: 309.647.1200 Fax: 855.332.9537 jeremyruck.com

135.0

180.0 225.0

315.0

270.0 31F

Azimuth ERP

0.0 deg 0.016 kW 45.0 0.696 19.1 0.058 28.4

0.013

0.014

0.015

0.021

1.70

Exhibit E-2 - TVStudy Interference Study

Distance to Canadian border: 1435.5 km

Distance to Mexican border: 776.5 km

Conditions at FCC monitoring station: Powder Springs GA

Bearing: 57.0 degrees Distance: 690.8 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone: Bearing: 313.3 degrees Distance: 1661.8 km

Study cell size: 1.00 km Profile point spacing: 1.00 km

Maximum new IX to full-service and Class A: 0.50%

Maximum new IX to LPTV: 2.00%

Interference to proposal scenario 1

City, State File Number
Baton rouge, LA BLANK0000121654 Distance Call Chan Svc Status City, State WEAZ-LD D26 LD LIC Desired:

Undesireds: WLPB-TV D25 DT CP BATON ROUGE, LA W26BB N26+ TX LIC VICKSBURG, MS BLANK0000035855 34.4 km BLTTL19940527JF 193.0

Service area Terrain-limited IX-free 28,784 369.0 28,784 355.1 28,641 Percent IX

3.78 0.50 369.0 Unique IX Prcnt Unique IX

Undesired Total IX Unique IX WLPB-TV D25 DT CP 14.0 143 14.0 143 3.78 0.50

Interference to proposal scenario 2

Call Chan Svc Status City, State File Number Distance Baton rouge, LA Desired: WEAZ-LD D26 LD LIC BLANK0000121654

Undesireds: W26BB N26+ TX LIC VICKSBURG, MS BLTTL19940527JF 193.0 km

Terrain-limited IX-free Percent IX 369.0 28,784 369.0 28,784 0.00 0.00 Service area Percent IX 28,784

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