**Engineering Statement - Minor Modification of
KQSY-LD Channel 30 Corpus Christi, TX March 2020**

This engineering statement has been prepared in connection with an application for minor modification (power increase).

**I. Background**

The station is currently operating on Channel 30, which is within the spectrum remaining for terrestrial television broadcasting per the results of the 2017 spectrum auction. This application requests a power increase on the current KQSY-LD facility.

**II. Interference Study**

Study has been made of all co-channel and adjacent-channel facilities in the vicinity of the proposed operation, including a detailed Longley-Rice interference study to demonstrate that the proposed operation will not cause interference to any authorized or pending proposed facilities.

The results of this study indicate that the proposed facility is predicted to cause zero additional interference to any of the listed stations. Based on the following interference study, it is believed that the proposed facility can operate without risk of interference to other stations.

Study created: 2020.03.29 17:12:31

Study build station data: LMS TV 2020-03-29

 Proposal: KQSY-LD NEW D30 LD CP CORPUS CHRISTI, TX

 File number: BLANK0000071840

 Facility ID: 68452

Station data: User record

 Record ID: 1

 Country: U.S.

Build options:

Protect pre-transition records not on baseline channel

Stations potentially affected by proposal:

IX Call Chan Svc Status City, State File Number Distance

No KENS D29 DT LIC SAN ANTONIO, TX BLANK0000074877 184.8 km

No KXTP-LD D30 LD CP BEAUMONT, TX BLANK0000072040 417.4

No NEW D30 LD APP BRYAN, TX BNPDTL20090825BQB 336.6

No NEW D30 LD APP COLLEGE STATION, TX BNPDTL20090825AWA 344.3

No KCVH-LD D30 LD LIC HOUSTON, TX BLDTL20130513ABR 274.7

No KHTX-LP N30- TX LIC HUNTSVILLE, TX BLTTL19980813JD 378.1

No KPLE-CD D30 DC LIC KILLEEN, TX BLDTL20090416ASY 369.1

No KPLE-CD D30 DC CP KILLEEN, TX BPDTA20130211ACF 369.1

No K30QK-D D30 LD CP LAREDO, TX BMJADTL20100414AAY 205.2

No KXLN-DT D30 DT LIC ROSENBERG, TX BLANK0000067755 274.7

Yes KABB D30 DT LIC SAN ANTONIO, TX BLCDT20100527AFI 187.2

No KVHM-LP D30 LD CP VICTORIA, TX BLANK0000001270 118.8

No KUBE-TV D31 DT LIC BAYTOWN, TX BLANK0000072353 275.3

No KGBT-TV D31 DT LIC HARLINGEN, TX BLCDT20030619ABF 183.9

No K31KK-D D31 DC LIC KINGSVILLE-ALICE, TX BLANK0000001576 47.4

No KXOF-CD D31 DC LIC LAREDO, TX BLDTA20101216ABZ 206.0

No KVDF-CD D31 DC LIC SAN ANTONIO, TX BLANK0000001489 212.6

No KVHM-LP N31 TX LIC VICTORIA, TX BLTTL19980616JF 119.8

No KYDF-LP N34+ TX LIC CORPUS CHRISTI, TX BLTTL20071003AAH 6.5

No non-directional AM stations found within 0.8 km

Directional AM stations within 3.2 km:

KEYS 1440 L DAN D CORPUS CHRISTI, TX BL

KEYS 1440 L DAN N CORPUS CHRISTI, TX BL

Record parameters as studied:

 Channel: D30

 Mask: Full Service

 Latitude: 27 46 11.10 N (NAD83)

 Longitude: 97 26 55.90 W

Height AMSL: 110.2 m

 HAAT: 103.0 m

 Peak ERP: 15.0 kW

 Antenna: SWR-SWLP8OI (ID 24202) 320.0 deg

Elev Pattrn: Generic

50.3 dBu contour:

Azimuth ERP HAAT Distance

 0.0 deg 12.4 kW 103.3 m 43.0 km

 45.0 7.04 108.3 40.6

 90.0 5.40 107.9 39.3

135.0 6.73 102.9 39.9

180.0 5.77 102.3 39.0

225.0 6.24 98.9 39.0

270.0 11.4 95.9 41.6

315.0 15.0 104.2 44.0

Distance to Canadian border: 2037.5 km

\*\*Proposal is within coordination distance of Mexican border

Distance to Mexican border: 193.2 km

Conditions at FCC monitoring station: Kingsville TX

Bearing: 229.7 degrees Distance: 56.2 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 334.5 degrees Distance: 1546.9 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%

No IX check failures found.