

EXHIBIT 4
Radio Multiple Ownership Study
and
Radio-Television Cross Ownership Study

prepared for
Liberman Broadcasting of Houston License Corp.

KTJM(FM), Ch. 253C Port Arthur, Texas (Facility ID 20489)
KQQK(FM), Ch. 300C Beaumont, Texas (Facility ID 19087)

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Engineering Statement
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Introduction

This statement has been prepared on behalf of *Liberan Broadcasting of Houston License Corp.* (“*Liberan*”) to show compliance with Section 73.3555(a) of the FCC Rules regarding common ownership of multiple radio stations serving the same market, and with §73.3555(c) concerning the common ownership of radio and television stations serving the same market.¹

In separate minor change applications, *Liberan* is proposing to relocate two of its existing, licensed FM stations. Specifically, KTJM(FM) (Facility ID 20489, Ch. 253C, Port Arthur, TX) and KQQK(FM) (Facility ID 19087, Ch. 300C, Beaumont, TX) are presently co-located. The non-contingent applications (to which this statement is an exhibit) propose to relocate KTJM and KQQK to a new tower structure, 4.25 km distant, where they will continue to be co-located.

These facility changes will result in new locations for the station’s respective coverage contours. The city grade (70 dB μ) contours for the two stations presently overlap, and will continue to overlap following the proposed change. Since *Liberan* also commonly owns other radio stations and a television station in the region, this exhibit addresses the continued common ownership of the various facilities. The radio and television stations licensed to *Liberan* in the area are listed on the following page.

¹ In accordance with the FCC Public Notice issued September 10, 2003 (DA 03-2867), references to Section 73.3555 of the Commission’s Rules herein refer to the Rules in effect prior to *Report and Order* in MB Docket No. 02-277 and MM Docket Nos. 01-235, 01-317, and 00-244 (adopted June 2, 2003). The United States Court of Appeals for the Third Circuit has stayed the effectiveness date of the rules adopted in this *Report and Order* (see *Prometheus Radio Project v. FCC*, No. 03-3388 (3d Cir. Sept. 3, 2003)).

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Liberian Radio and Television Facilities in the Region

<u>Call</u>	<u>Facility ID</u>	<u>Channel</u>	<u>City, State</u>
KIOX-FM	36507	245C1	El Campo, TX
KJOJ-FM	69565	277C	Freeport, TX
KQQK(FM)	19087	300C	Beaumont, TX
KTJM(FM)	20489	253C	Port Arthur, TX
KXGJ(FM)	2131	269C1	Bay City, TX
KEYH(AM)	2911	850 kHz	Houston, TX
KJOJ(AM)	20625	880 kHz	Conroe, TX
KQUE(AM)	65309	1230 kHz	Houston, TX
KSEV(AM)	9645	700 kHz	Tomball, TX
KZJL(TV)	69531	61	Houston, TX

Radio Multiple Ownership

Under current FCC ownership rules, a “market” is defined as the area encompassed by the overlapping principal community contours of the radio stations which are commonly owned.² Accordingly, an evaluation has been made of the locations of the principal community contours of the various *Liberian* radio stations. Depicted in **Exhibit 4 - Figure 1** are the principal community coverage contours (70 dB μ) of the *Liberian* FM stations with the daytime principal community contours (5 mV/m) of the AM stations licensed to *Liberian*.

The licensed and proposed city grade contours for KTJM and KQQK are provided. Additionally, minor changes are proposed to *Liberian*'s KIOX-FM, KJOJ-FM, and KXGJ under non-contingent applications³ filed regarding those facilities in 2003, and licensed and proposed city grade contours for those stations are also depicted in **Exhibit 4 - Figure 1**.

² Order in Implementation of Sections 202(a) and 202(b)(1) of the Telecommunications Act of 1996 (Broadcast Radio Ownership) FCC 96-90, released March 8, 1996 and Memorandum Opinion and Order in Revision of Radio Rules and Policies 7 FCC Rcd 6387, 6395 para. 39 (1992).

³ See BPH-20031209ACC, BPH-20031209ACD, and BPH-20031209ACB regarding KIOX-FM, KJOJ-FM, and KXJG, respectively.

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As shown in **Exhibit 4 - Figure 1**, the other *Liberian* stations overlapped by any of the two subject FM stations (KTJM and KQQK) are *Liberian's* AM stations, KSEV(AM), KJOJ(AM), KQUE(AM), and KEYH(AM). Each AM station's city grade contour is overlapped by the licensed and proposed KTJM and KQQK city grade contours. The modifications proposed for KTJM and KQQK do not change the resulting radio "market" location appreciably. The facilities as proposed for KIOX-FM, KJOJ-FM, and KXGJ are not involved in the creation of any market area in conjunction with the proposed KTJM or KQQK facilities.

Therefore, using the present FCC methodology, there will continue to be one radio "market" involving the proposed KTJM and KQQK facilities. The market (2 FM stations and 4 AM stations as shown on **Exhibit 4 - Figure 1**) is defined by the bounds of the principal community contours of the proposed KTJM (the proposed KQQK principal community contour is wholly contained within that of the proposed KTJM) and those of KJOJ, KEYH, and KSEV (the KQUE principal community contour is wholly contained within that of KSEV).

Depicted in **Exhibit 4 - Figures 2 and 3**, and listed in **Exhibit 4 - Table 1**, are all of the identifiable, operating, licensed domestic commercial radio stations with principal community contours covering any part of the defined market area.

As demonstrated in **Exhibit 4 - Figures 2 and 3** and **Exhibit 4 - Table 1**, at least 89 radio stations (44 FM and 45 AM) provide some measure of principal community coverage within the defined market area. Therefore, the *Liberian* station count in the market described herein (2 FM stations and 4 AM stations) does not exceed the station limit (8 maximum, no more than 5 in the same service) permitted under §73.3555(a)(1)(i).

Radio-Television Cross Ownership

The radio-television cross ownership rule is triggered when the Grade A contour of a television station entirely encompasses the community of license of a commonly owned AM or FM radio station. Additionally, the rule is triggered when the 60 dB μ (1 mV/m) FM station contour or the 2 mV/m AM station contour entirely encompasses the community of license of a commonly owned television station.

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As described above, *Lieberman* has attributable ownership interest in KZJL(TV) (Ch. 61, Houston, Texas). A Construction Permit (BMPCDT-20021107AAB) authorizes a minor modification of the licensed KZJL facility. As illustrated by **Exhibit 4 - Figure 4**, none of the 60 dB μ contours of the proposed KTJM or KQQK facilities entirely encompass Houston. Nor does the Grade A (74 dB μ) service contour of KZJL (Lic or CP) encompass any of Port Arthur or Beaumont (the principal communities of KTJM and KQQK, respectively). Thus, Radio-Television cross ownership issues of §73.3555(c) are not triggered by the proposed modifications of KTJM or KQQK.

Contour Methodology

In preparing the attached maps and tables, pertinent station data were extracted from the Commission's engineering databases. For AM stations, these included the operating power, radiation efficiency, directional antenna data (where appropriate), and geographic coordinates. The distances to the pertinent contours were computed using a digitized version of the Commission's estimated soil conductivity map, Figure M-3 and a computer program which simulates the Commission's AM groundwave propagation curves. For the FM and television stations, pertinent data for determining the distances to the contour included the antenna elevation above mean sea level, geographic coordinates, effective radiated power, and, where appropriate, directional antenna patterns. The requisite contours distances were determined using digitized, 3 arc-second, terrain data along radials spaced every 5 degrees from the transmitter site and an implementation of the Commission's TVFMFS computer program which simulates the FM and TV propagation curves. The distances to the pertinent contours were then fed into a GIS mapping program which was used to generate the attached maps.

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Conclusion

As demonstrated by the foregoing, *Lieberman's* proposed changes to KTJM and KQQK are permissible pursuant to §73.3555(a)(1)(i). The changes will not change the existing situation of two FM stations and four AM stations in a radio market. The station count for the radio market is at least 81 stations. No radio-television cross ownership issues of §73.3555(c) are triggered by the proposed modifications of KTJM or KQQK.

Certification

The undersigned hereby certifies that the foregoing statement was prepared by him or under his direction, and that it is true and correct to the best of his knowledge and belief. Mr. Davis is a principal in the firm of *Cavell, Mertz & Davis, Inc.*, is a Registered Professional Engineer in Virginia, holds a Bachelor of Science degree from Old Dominion University in Electrical Engineering Technology, and has submitted numerous engineering exhibits to various local governmental authorities and the Federal Communications Commission. His qualifications are a matter of record with that entity.

Joseph M. Davis, P.E.
April 16, 2004

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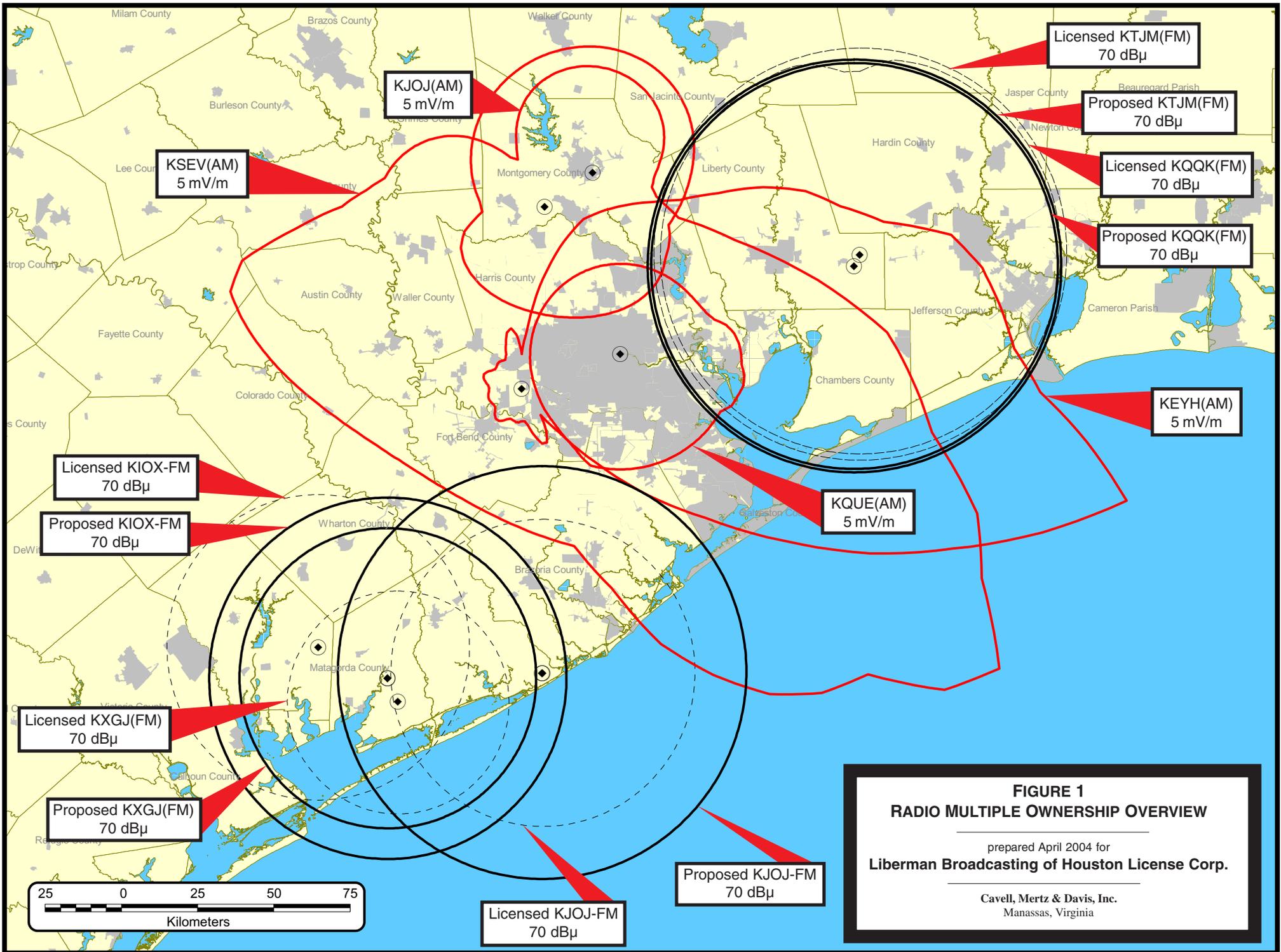
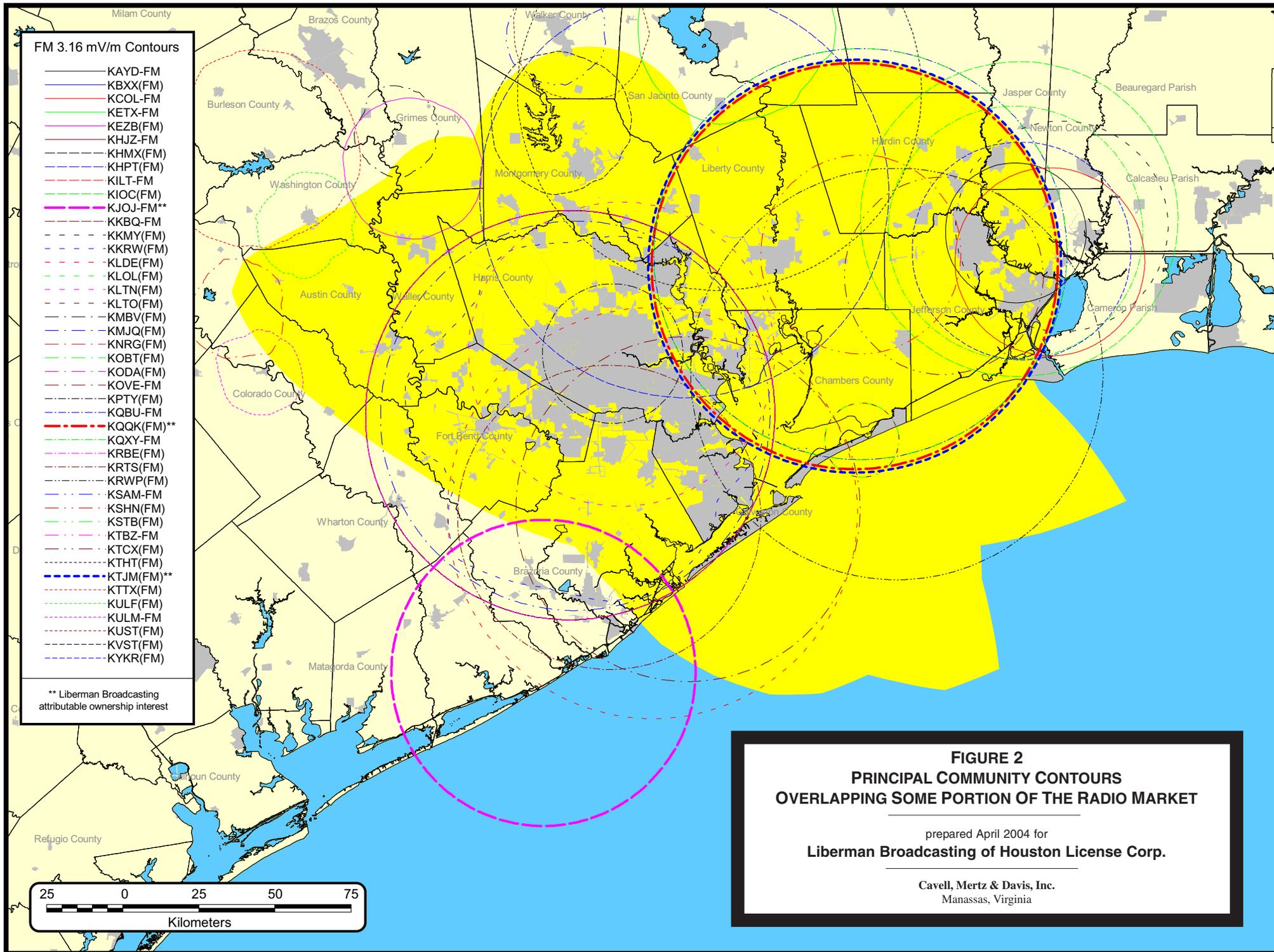


FIGURE 1
RADIO MULTIPLE OWNERSHIP OVERVIEW
 prepared April 2004 for
Liberman Broadcasting of Houston License Corp.
 Cavell, Mertz & Davis, Inc.
 Manassas, Virginia



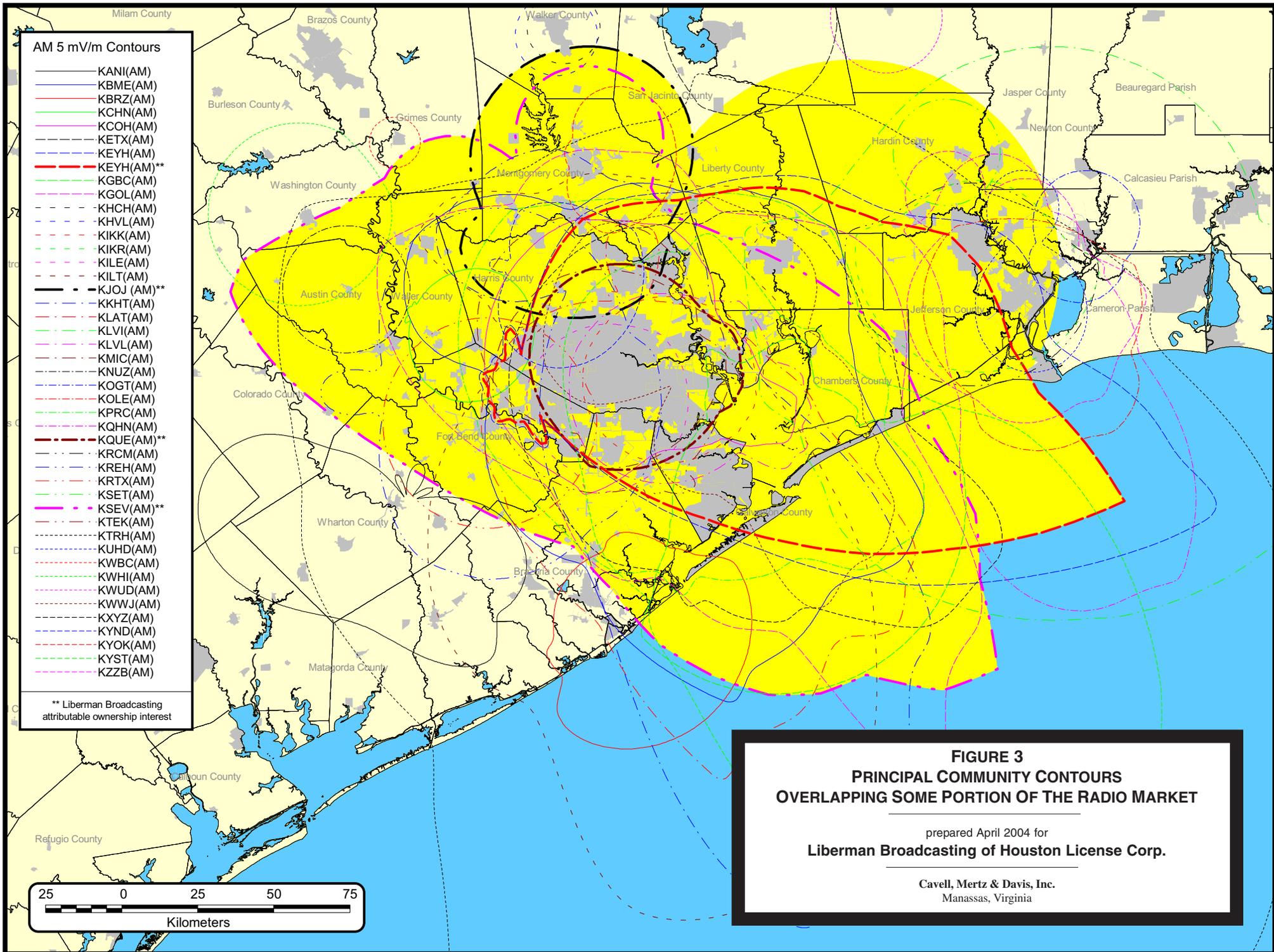


Exhibit 4 - Table 1

**STATIONS WITH PRINCIPAL COMMUNITY CONTOURS OVERLAPPING
SOME PORTION OF THE MARKET**

prepared for

Liberman Broadcasting of Houston License Corp.

FM Stations

<u>Callsign</u>	<u>Channel</u>	<u>City, State</u>	<u>Facility ID</u>
KSAM-FM	269A	HUNTSVILLE, TX	70721
KVST(FM)	279C3	WILLIS, TX	48676
KUST(FM)	259C3	HUNTSVILLE, TX	26858
KETX-FM	222C2	LIVINGSTON, TX	52897
KTHT(FM)	246C	CLEVELAND, TX	65308
KHPT(FM)	295C	CONROE, TX	69564
KIOC(FM)	291C	ORANGE, TX	33060
KQBU-FM	227C	PORT ARTHUR, TX	25583
KSHN(FM)	260C2	LIBERTY, TX	68125
KOBT(FM)	264C	WINNIE, TX	57801
KQXY-FM	231C1	BEAUMONT, TX	48918
KAYD-FM	269C3	SILSBEE, TX	31109
KKMY(FM)	283C1	ORANGE, TX	62239
KYKR(FM)	236C1	BEAUMONT, TX	25581
KCOL-FM	223C2	GROVES, TX	70443
KTCX(FM)	273C2	BEAUMONT, TX	4462
KRWP(FM)	248C	BEAUMONT, TX	52407
KSTB(FM)	268A	CRYSTAL BEACH, TX	18187
KLTO(FM)	287A	CRYSTAL BEACH, TX	479
KLTN(FM)	275C	HOUSTON, TX	65310
KPTY(FM)	285C3	MISSOURI CITY, TX	57806
KOVE-FM	293C	GALVESTON, TX	19091
KLDE(FM)	298C	LAKE JACKSON, TX	59951
KRTS(FM)	221C1	SEABROOK, TX	35565
KKRW(FM)	229C	HOUSTON, TX	9625
KMJQ(FM)	271C	HOUSTON, TX	11971
KKBQ-FM	225C	PASADENA, TX	23083
KTBZ-FM	233C	HOUSTON, TX	18516
KHJZ-FM	239C	HOUSTON, TX	25449
KHMX(FM)	243C	HOUSTON, TX	47749
KBXX(FM)	250C	HOUSTON, TX	11969
KODA(FM)	256C	HOUSTON, TX	35337
KILT-FM	262C	HOUSTON, TX	25439
KLOL(FM)	266C	HOUSTON, TX	35073
KRBE(FM)	281C	HOUSTON, TX	35524
KJOJ-FM**	277C	FREEPORT, TX	69565
KULM-FM	252A	COLUMBUS, TX	70706
KNRG(FM)	222A	NEW ULM, TX	15113
KULF(FM)	231C3	BRENHAM, TX	40775

Exhibit 4 - Table 1

**STATIONS WITH PRINCIPAL COMMUNITY CONTOURS OVERLAPPING
SOME PORTION OF THE MARKET**

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FM Stations (cont'd)

<u>Callsign</u>	<u>Channel</u>	<u>City, State</u>	<u>Facility ID</u>
KTTX(FM)	291C2	BRENHAM, TX	67301
KEZB(FM)	287C3	HEMPSTEAD, TX	21204
KMBV(FM)	223A	NAVASOTA, TX	40913
KQQK(FM)**	300C	BEAUMONT, TX	19087
KTJM(FM)**	253C	PORT ARTHUR, TX	20489

Total: 44 FM Stations

*** Stations licensed to Liberman Broadcasting of Houston License Corp.*

Exhibit 4 - Table 1

**STATIONS WITH PRINCIPAL COMMUNITY CONTOURS OVERLAPPING
SOME PORTION OF THE MARKET**

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AM Stations

<u>Callsign</u>	<u>Frequency</u> (kHz)	<u>City, State</u>	<u>Facility ID</u>
KANI(AM)	1500	WHARTON, TX	40487
KBME(AM)	790	HOUSTON, TX	23082
KBRZ(AM)	1460	FREEPORT, TX	12156
KCHN(AM)	1050	BROOKSHIRE, TX	68124
KCOH(AM)	1430	HOUSTON, TX	33737
KETX(AM)	1440	LIVINGSTON, TX	52895
KEYH(AM)	850	HOUSTON, TX	2911
KGBC(AM)	1540	GALVESTON, TX	26002
KGOL(AM)	1180	HUMBLE, TX	34473
KHCH(AM)	1400	HUNTSVILLE, TX	30274
KHVL(AM)	1490	HUNTSVILLE, TX	70720
KIKK(AM)	650	PASADENA, TX	25450
KIKR(AM)	1450	BEAUMONT, TX	52406
KILE(AM)	1560	BELLAIRE, TX	17389
KILT(AM)	610	HOUSTON, TX	25440
KKHT(AM)	1070	HOUSTON, TX	61174
KLAT(AM)	1010	HOUSTON, TX	67063
KLVI(AM)	560	BEAUMONT, TX	25580
KLVL(AM)	1480	PASADENA, TX	56148
KMIC(AM)	1590	HOUSTON, TX	20491
KNUZ(AM)	1090	BELLVILLE, TX	48653
KOGT(AM)	1600	ORANGE, TX	22950
KOLE(AM)	1340	PORT ARTHUR, TX	62238
KPRC(AM)	950	HOUSTON, TX	9644
KQHN(AM)	1510	NEDERLAND, TX	48917
KRCM(AM)	1380	BEAUMONT, TX	14228
KREH(AM)	900	PECAN GROVE, TX	71631
KRTX(AM)	980	ROSENBURG/RICHMOND, TX	57804
KSET(AM)	1300	SILSBEE, TX	31108
KTEK(AM)	1110	ALVIN, TX	10827
KTRH(AM)	740	HOUSTON, TX	35674
KUHD(AM)	1150	PORT NECHES, TX	68762
KWBC(AM)	1550	NAVASOTA, TX	40912
KWHI(AM)	1280	BRENHAM, TX	67300
KWUD(AM)	1490	WOODVILLE, TX	68129
KWWJ(AM)	1360	BAYTOWN, TX	58724
KXYZ(AM)	1320	HOUSTON, TX	95
KYND(AM)	1520	CYPRESS, TX	40696
KYOK(AM)	1140	CONROE, TX	40484
KYST(AM)	920	TEXAS CITY, TX	27298

Exhibit 4 - Table 1

**STATIONS WITH PRINCIPAL COMMUNITY CONTOURS OVERLAPPING
SOME PORTION OF THE MARKET**

(page 4 of 4)

AM Stations (cont'd)

<u>Callsign</u>	<u>Frequency</u> (kHz)	<u>City, State</u>	<u>Facility ID</u>
KZZB(AM)	990	BEAUMONT, TX	40485
KQUE(AM)**	1230	HOUSTON, TX	65309
KSEV(AM)**	700	TOMBALL, TX	9645
KEYH(AM)**	850	HOUSTON, TX	2911
KJOJ (AM)**	880	CONROE, TX	20625

Total: 45 AM Stations

*** Stations licensed to Liberman Broadcasting of Houston License Corp.*

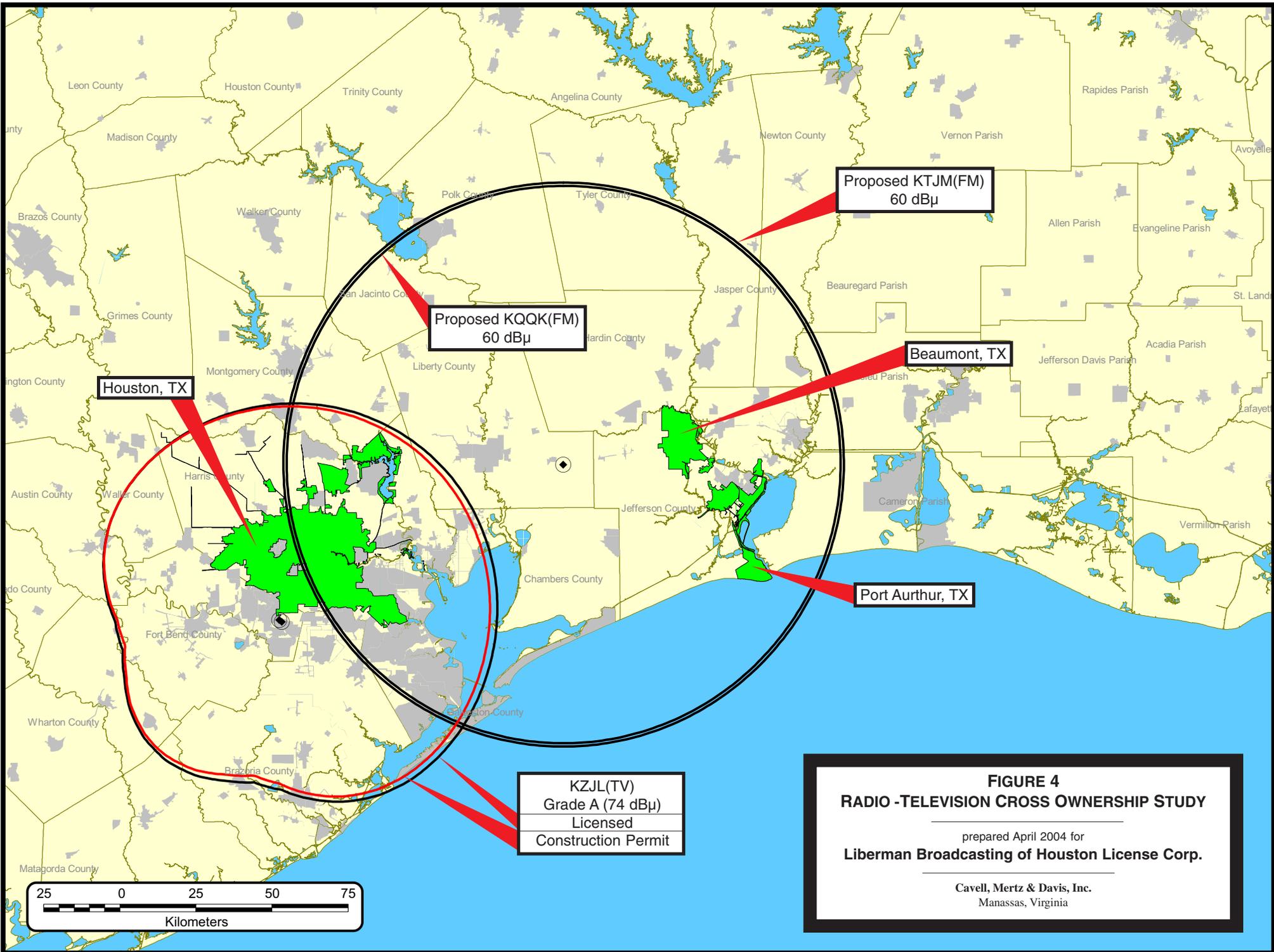


FIGURE 4
RADIO -TELEVISION CROSS OWNERSHIP STUDY
 prepared April 2004 for
Liberman Broadcasting of Houston License Corp.
 Cavell, Mertz & Davis, Inc.
 Manassas, Virginia