



**STRUCTURAL
ANALYSIS
REPORT**

**CELL SITE: SAGE BROADCASTING TOWER
890' KLINE GUYED TOWER**

in

Tom Green County, Texas

prepared for:

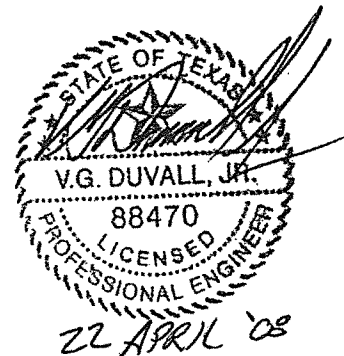
**ADVANTAGE 1 WIRELESS
7604 GROVE CREST CIRCLE
AUSTIN, TEXAS 78736**

prepared by:

**LFC, INC.
17314 STATE HIGHWAY 249, SUITE 230
HOUSTON, TEXAS 77064
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April 2008

File No. 08-0435



SAGE BROADCASTING TOWER, ADVANTAGE 1 WIRELESS

INTRODUCTION

This report summarizes the results of the structural analysis performed on the 890' Kline guyed tower at the Sage Broadcasting Tower site in Tom Green County, Texas. The tower analysis was performed using the 2008 *RISATower* v5.1.2.0 program from RISA Technologies.

ANALYSIS CRITERIA

The tower was analyzed for the specified loads in accordance with the current EIA-222-F publication, "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures" and meets the provisions of the International Building Code (IBC) 2003. This analysis derives its applied forces from EIA minimum 75 MPH basic fastest mile wind speed (90 MPH 3-second gust) with no ice accumulation.

TOWER LOADING INFORMATION

Advantage1 Wireless, Inc. requested LFC, Inc to analyze the tower to verify its structural integrity under the following tower loading:

ELEVATION	STATUS	DESCRIPTION	LINES
890'	PROPOSED	1- PROP SYSTEMS PSIMPD2401-19 (KIDY)	1- 3 1/8" COAX
777'	PROPOSED	1- ERI LPX-4E-HW (KUTX)	1- 1 5/8" COAX
650'	EXISTING	1- ERI CARINA 12-BAY CH. 38-45 (K44FJ)	1- 1 5/8" COAX
464'	EXISTING	1- PROP SYSTEMS PSILPDS8-19 (KIDY)	1- 1 5/8" COAX
399'	EXISTING	1- KATHREIN 4DR-16-2HN (KPKS)	1- 1 5/8" COAX
120'	EXISTING	1- 6' DIA SOLID MW DISH	1- 1 5/8" COAX
112'	EXISTING	1- 6' DIA SOLID MW DISH	EW63
100'	EXISTING	6- 5' PANEL ANTENNAS	6- 1 5/8" COAX

AVAILABLE DOCUMENTS

The tower analysis was performed based on the following documents:

- Tower Mapping performed by Advantage1 Wireless in October 2007.
- Proposed Loading provided by Advantage1 Wireless, Inc.

ASSUMPTIONS

Member allowable values are calculated based on original cross section properties with no allowances for corrosion or defects. The transmission lines are to be installed as shown in the accompanying transmission line layout sketch.

SAGE BROADCASTING TOWER, ADVANTAGE 1 WIRELESS

RESULTS

The graphs enclosed summarize the results of the tower study for each load option and itemize the structural components, specifying member function, elevation, and size. Values for allowable and actual member loads are reported along with the corresponding allowable wind conditions. The graphs summarize the existing structural components and their corresponding applied loads.

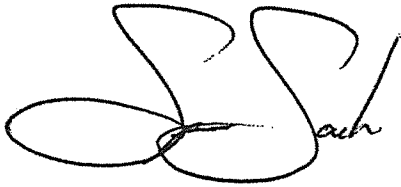
CONCLUSIONS AND RECOMMENDATIONS:

The Sage Broadcasting Tower tower will support the proposed loading and meet the requirements of the EIA Standard with a tower rating at 98.0% of its capacity. These results are reflected in the *RISATower* Section Capacity Table titled "08-0435 SAGE BROADCASTING TOWER."

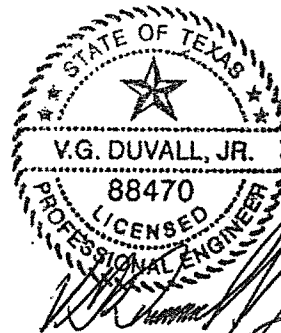
Information on the foundations and a Geotechnical report were not provided, thus, precluding any comments on their performance under the proposed loading criteria.

Thank you for this opportunity to work with you and do not hesitate to call if you should have any questions.

Respectfully submitted:



Spiro Soukis, EIT
Project Engineer



V.G. Duvall, Jr., PE
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