

EXHIBIT I

By this application, Satellite CD Radio, Inc. (CD Radio), will begin testing of S-Band terrestrial repeater ground stations for its satellite Digital Audio Radio Service (DARS) system. The overall purpose of the requested experimentation is to finalize the engineering of CD Radio's terrestrial repeaters. CD Radio expects that this effort will yield significant new information about power levels required to ensure satellite DARS reception in urban "canyons" and near other obstacles, and will permit as well measurement of out-of-band emissions from such terrestrial stations.

Specifically, CD Radio plans:

1. To measure objective (e.g., signal strength, delay speed, multipath, etc.) and subjective (e.g., music quality) transmission performance using parameter values of operational system.
 - a) Measurements at S-band in CD Radio's licensed spectrum. No confirming measurements of terrestrial transmission performance for Satellite DARS have yet been made.
 - b) Measurements in a severe urban environment. San Francisco is a particularly difficult propagation environment and, additionally, has subenvironments (e.g., hilly terrain, water boundary, treed areas, etc.)
 - c) Measurements in the projected Satellite DARS environment using transmitter sites suitable for the operational system with objective and subjective performance measured in a moving vehicle.
3. To optimize transmission parameter values particularly transmitter power and modulation.
 - a) Various power levels of the transmitters will be used with a maximum of 1000 watts

- b) Modulation optimization will be checked, especially number of subcarriers, their spacing and symbol guard time. Performance under doppler conditions will also be confirmed.
- c) Out-of-band emissions and spectral occupancy will be measured, including sidelobe regrowth due to transmitter non-linearity.

EXHIBIT II

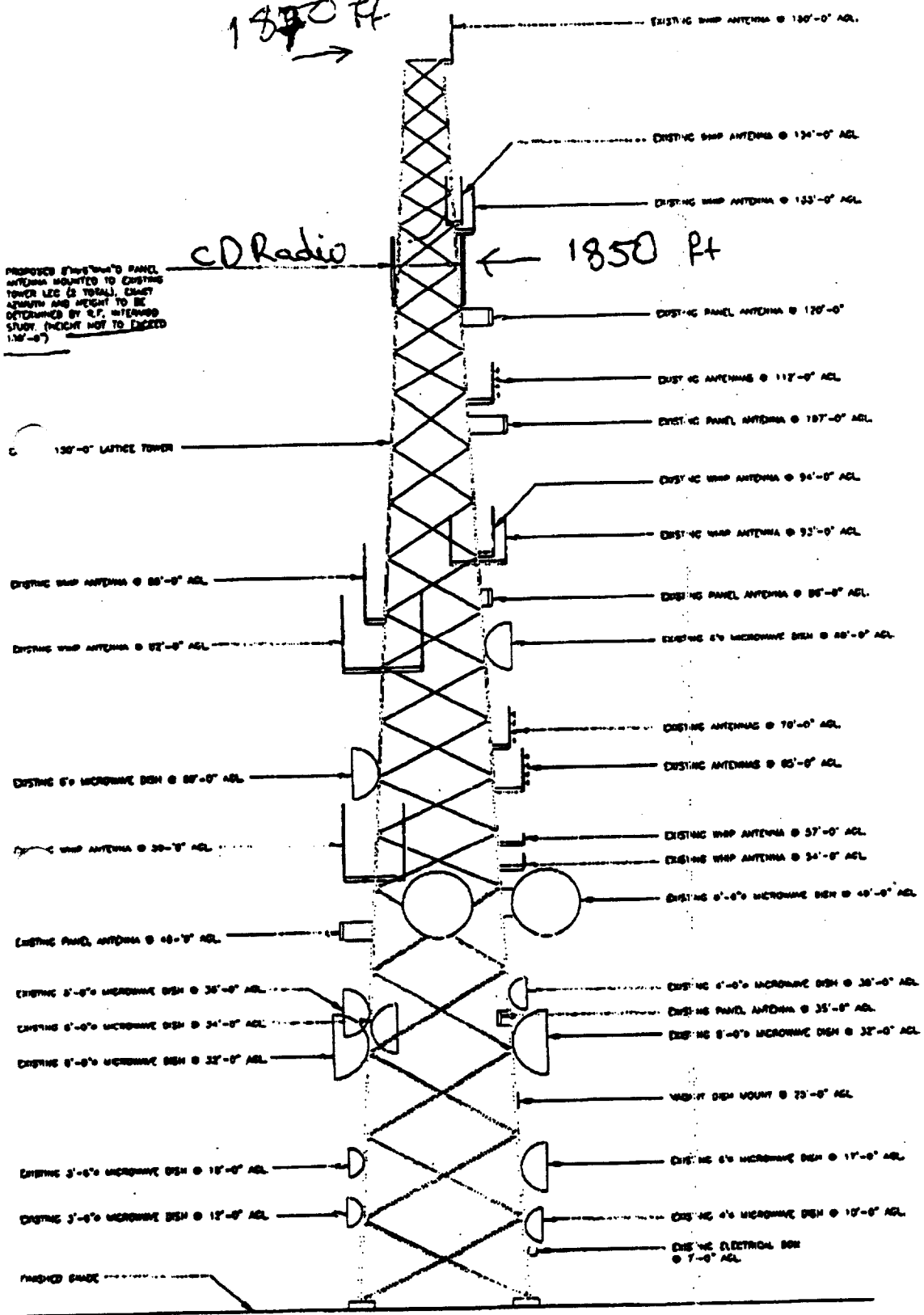
No AVIATION LIGHTS (Grizzly Peak)

1850 Ft

CD Radio

1850 Ft

PROPOSED 8'x8'x10' PANEL ANTENNA MOUNTED TO EXISTING TOWER LEC (2 TOTAL). EXIST ANTENNA AND HEIGHT TO BE DETERMINED BY R.F. INTERFERED STUDY. (HEIGHT NOT TO EXCEED 1.5'x8'x10')



AGL = 1720 Ft.

TOWER ELEVATION



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CONSULTANT:

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PROJECT INFORMATION:

GRIZZLEY PEAK
APN 267-010-003-7
GRIZZLEY PEAK BLVD.
BERKELEY, CA
ALAMEDA COUNTY

CURRENT ISSUE DATE:

8/14/98

ISSUED FOR:

EXHIBIT "B"

REV. DATE DESCRIPTION BY:

REV.	DATE	DESCRIPTION	BY
1	8/14/98	ISSUED FOR EXHIBIT "B"	JM

PLANS PREPARED BY:

DELTA GROUPS ENGINEERING, INC.
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DRAWN BY: CHK: APV:

JM

LICENSURE:

SHEET TITLE:

TOWER ELEVATION

SHEET NUMBER: REVISION:

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