

Channel Spacing Study

Adventist Learning Center of Alliance
Alliance, NE

CH260L1 99.9 MHz

Coordinates:

42 06 17 N

102 53 05 W



The screenshot shows the FMCommander software interface. At the top, there's a menu bar with options like File, Print, Settings, Class, Channel, < Down, > Up, Find, Views, Help, and About. Below the menu bar is a toolbar with various icons. The main display area shows a table of radio station data. The table has columns for Call, Type, Ch, Location, Azi, Dist, FCC, and Margin. The data is as follows:

| Call | Type | Ch | Location | Azi | Dist | FCC | Margin |
|---------|-------|-------|------------|----------|--------|------|--------|
| KOGA-FM | LIC | 259C1 | Ogallala | NE 131.5 | 173.21 | 99.5 | 73.7 |
| R12441 | DEL | 259C1 | Ogallala | NE 131.5 | 173.21 | 99.5 | 73.7 |
| KSIK | LIC | 261C2 | Fleming | CO 184.2 | 169.50 | 79.5 | 90.0 |
| KKTY-FM | LIC | 261C1 | Glendo | WY 291.9 | 206.07 | 99.5 | 106.6 |
| KHAN | LIC-N | 258C3 | Chugwater | WY 257.5 | 164.53 | 39.5 | 125.0 |
| K262CC | CP-D | 262D | Julesburg | CO 162.2 | 139.86 | 13.5 | 126.4 |
| KKPL | LIC | 260C2 | Cheyenne | WY 236.4 | 219.94 | 90.5 | 129.4 |
| KRKI | LIC | 258C1 | Keystone | SD 340.1 | 207.41 | 72.5 | 134.9 |
| KFXS | LIC | 262C1 | Rapid City | SD 352.4 | 220.37 | 72.5 | 147.9 |

Below the table, there is a red text label "End of Screen List". The software window also displays various status information at the top, including "IX Issue! AM tower", "Spacings Mod", and "25-13 - Zone 2". The bottom status bar shows the time as 4:33 PM on 11/12/2013.

All spacing rules are fully met.

The closest AM facility is KCOW, Alliance, NE, L, ND1 at 296.8° at a distance of 1.5 km.

NE-Allian_Channel_Study.txt

NE - Alliance - LPFM
1104 W. 10th St.

REFERENCE

42 06 17.0 N.
102 53 05.0 W.

CLASS = L1
Current Spacings to 2nd Adj.
Channel 260 - 99.9 MHz

DISPLAY DATES

DATA 09-25-13
SEARCH 10-29-13

| Call | Channel | Location | | Azi | Dist | FCC | Margin |
|---------|-------------|------------|----|-------|--------|------|--------|
| KOGA-FM | LIC 259C1 | Ogallala | NE | 131.5 | 173.21 | 99.5 | 73.7 |
| R12441 | DEL 259C1 | Ogallala | NE | 131.5 | 173.21 | 99.5 | 73.7 |
| KSIK | LIC 261C2 | Fleming | CO | 184.2 | 169.50 | 79.5 | 90.0 |
| KKTY-FM | LIC 261C1 | Glendo | WY | 291.9 | 206.07 | 99.5 | 106.6 |
| KHAN | LIC-N 258C3 | Chugwater | WY | 257.5 | 164.53 | 39.5 | 125.0 |
| K262CC | CP -D 262D | Julesburg | CO | 162.2 | 139.86 | 13.5 | 126.4 |
| KKPL | LIC 260C2 | Cheyenne | WY | 236.4 | 219.94 | 90.5 | 129.4 |
| KRKI | LIC 258C1 | Keystone | SD | 340.1 | 207.41 | 72.5 | 134.9 |
| KFXS | LIC 262C1 | Rapid City | SD | 352.4 | 220.37 | 72.5 | 147.9 |

Reference station has protected zone issue:
All separation margins include rounding

NE-Allian.TXTQ
Protected zones report for NE-Allian on channel 223L1 11-12-2013
Lat. 42 06 04.5 Lng. 102 52 17.6, ERP= 0.1 kw, HAAT= 30M

Facility is okay with respect to AM station towers.

Closest AM Facility is KCOW, ALLIANCE, NE, L, ND1 at 296.8° at a distance of 1.5 km
Facility is okay with respect to FCC monitoring stations.

Closest FCC Monitoring Station is 393.4 km= Grand Island, NE

Facility is okay toward West Virginia Quiet Zone. Distance to center = 2031.5 km

Facility is okay toward Table Mountain. Distance to Center = 295.3 km, Azimuth = 223.0 Degrees True