ENGINEERING STATEMENT

IN SUPPORT OF

MINOR MODIFICATION OF A LICENSED DIGITAL TRANSLATOR FACILITY

K28ER-D

DULCE & LUMBERTON, NM

Background

Hearst Properties Inc. (Hearst) is the licensee of digital television translator station K28ER-D (LMS File No. 0000152595, Facility ID. 53937) near Dulce & Lumberton, NM. The station currently operates on Ch. 28 with an ERP of 0.2 kW. Hearst, in the instant application, is seeking to change the station's antenna from a Scala ODD94041HF to a Scala 4DR-8S, change the antenna radiation center height from 9m AGL to 6.1m AGL, and increase the ERP from 0.2 kW to 1.4 kW.

Site and Tower

The tower is located at 36° 59' 01.9" N and 106° 58' 16.0" W (NAD83). The proposed changes will not have any effect on the overall height of the tower which will remain 7.6m AGL. The tower passes the TOWAIR program. Therefore, the tower does not require an ASR, nor notification to the FAA.

Antenna and Power

Hearst is proposing to change the station's antenna to a Scala 4DR-8S directional antenna with a horizontally polarized ERP of 1.4 kW (no vertical polarization component).

Interference

An interference check study was run using the FCC TVStudy software (Version 2.2.5) for the proposed facility parameters (including the use of a Simple Mask). The results of the study (copy attached hereto) show that potential interference is not predicted to exceed 0.49% to any full-service DTV or Class A stations or 1.99% to any digital low power stations as required by the Commission's Rules.

Environmental/RFR

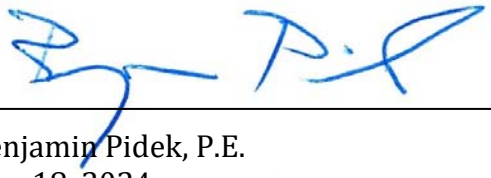
This report addresses only the conditions specified in 47CFR1.1307 that deal with Radio Frequency Radiation. Any other non-RFR conditions that might require the preparation of an EA are beyond the scope of this report.

The location of the proposed facility is assumed to currently be "in compliance" with FCC guidelines for human exposure to RFR (as defined in OET-65). The worst-case ground level RFR contributed to the site by this proposal in public areas is calculated to be 0.173906 mW/cm^2, which is less than the MPE for public exposure (0.371333 mW/cm^2) at Ch. 28.

Hearst agrees to comply with the Commission's requirements regarding power adjustments or cessation of operation as may be necessary to ensure a compliant environment for worker access. Workers will be trained on RFR issues and encouraged to wear personal RFR monitors when on the structure.

Certification

I hereby certify that the foregoing report or statement was prepared by me but may include work performed by others under my supervision or direction. The statements of fact contained therein are believed to be true and correct based on personal knowledge, information and belief unless otherwise stated; with respect to facts not known of my own personal knowledge, I believe them to be true and correct based on their origin from sources known to me to be generally reliable and accurate. I have prepared this document with due care and in accordance with applicable standards of professional practice.



Benjamin Pidek, P.E.
May 18, 2024

Attached:
TVStudy Interference Check Report

TVStudy TV Interference Check Report for K28ER-D on Ch. 28

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Study created: 2024.05.18 15:03:16

Study build station data: LMS TV 2024-05-17

    Proposal: K28ER-D D28+ LD LIC DULCE & LUMBERTON, NM
 File number: K28ER-4DR8Sr180-1_4k
 Facility ID: 53937
Station data: User record
   Record ID: 72
     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   K27IG-D   D27        LD  LIC     CORTEZ, ETC, CO           BLDTT20090522ACA       112.5 km
No   K27LK-D   D27        LD  LIC     GATEVIEW, CO              BLDTT20120106ABO       144.2
No   K27KA-D   D27        LD  LIC     PARLIN, CO                BLDTT20100713APC       171.3
No   KVSN-DT   D27        DT  LIC     PUEBLO, CO                BLANK0000074846        269.4
No   K27MT-D   D27        LD  LIC     ROMEO, CO                 BLANK0000055052         85.8
No   K27ND-D   D27        LD  LIC     AZTEC, NM                 BLANK0000067943         84.0
Yes  KASA-TV   D27        DT  LIC     SANTA FE, NM              BLANK0000136792        202.2
No   K28HI-D   D28        LD  LIC     BRECKENRIDGE/DILLON, CO   BLANK0000068743        304.0
No   K28KC-D   D28        LD  LIC     CANON CITY, CO            BLDTL20090708AAT       226.2
No   K28JY-D   D28        LD  LIC     CARBONDALE, CO            BLDTT20091221AAV       273.4
No   K11PS-D   D28        LD  CP      COLLBRAN, CO              BLANK0000221329        265.4
No   K28EB-D   D28        LD  LIC     CORTEZ, ETC, CO           BLDTT20090522ABX       112.5
No   K28KU-D   D28        LD  LIC     CRESTED BUTTE, CO         BLDTL20121119AOU       213.3
No   KTFD-TV   D28        DT  LIC     DENVER, CO                BLANK0000066076        340.9
No   K28HA-D   D28        LD  LIC     GRAND VALLEY, CO          BLDTT20101007AAR       286.8
No   K28AD-D   D28        LD  LIC     MONTROSE, CO              BLDTT20090929AHW       187.2
No   K28PZ-D   D28        LD  LIC     PARLIN, CO                BLANK0000068626        171.3
No   K28QA-D   D28        LD  LIC     SAPINERO, CO              BLANK0000063160        152.2
No   KSBK-LD   D28        LD  LIC     WALSENBURG, CO            BLANK0000058258        203.0
No   K28GE-D   D28+       LD  LIC     WOODLAND PARK, CO         BLANK0000040556        278.0
No   K28GE-D   N28+       TX  LIC     WOODLAND PARK, CO         BLTTL19991203AAV       278.1
No   K28GF-D   D28        LD  LIC     CIMARRON, NM              BLDTT20101008ACF       165.0
Yes  K28GT-D   D28        LD  LIC     CROWNPOINT, NM            BLDTT20120127AGO       179.1
No   K28NX-D   D28        LD  LIC     MONTOYA & NEWKIRK, NM     BLANK0000055209        338.3
No   K28GV-D   D28        LD  LIC     TRES PIEDRAS, NM          BLDTT20090827ABC        85.7
No   K28OR-D   D28        LD  LIC     CAINEVILLE, UT            BLANK0000081913        377.5
No   K28OK-D   D28        LD  LIC     HANKSVILLE, UT            BLANK0000080675        362.5
No   K29ME-D   D29        LD  LIC     Antonito, CO              BLANK0000150631         85.7
No   K29GO-D   D29        LD  LIC     CORTEZ, ETC, CO           BLDTT20090522ABU       112.5
No   K29IT-D   D29        LD  LIC     GATEVIEW, CO              BLDTT20120106ABN       148.1
No   K29IU-D   D29        LD  LIC     PARLIN, CO                BLDTT20100713APD       171.3
No   K29HR-D   D29        LD  LIC     FARMINGTON, NM            BLDTT20080528ABA       117.5
Yes  KWBQ      D29        DT  LIC     SANTA FE, NM              BLANK0000203859        202.2

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

    Channel: D28+
       Mask: Simple
   Latitude:  36 59  2.00 N (NAD83)
  Longitude: 106 58 16.10 W
Height AMSL: 2754.3 m (Adjusted based on actual ground elevation calculation)
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       HAAT: 0.0 m
   Peak ERP: 1.40 kW
    Antenna: SCA 4DR-8S 180.0 deg
Elev Pattrn: Generic

50.1 dBu contour:
Azimuth      ERP       HAAT   Distance
  0.0 deg  0.017 kW   364.4 m   21.9 km
 45.0      0.000      387.2      9.6
 90.0      0.004      400.6     15.3
135.0      0.504      524.5     45.8
180.0       1.40      516.1     51.8
225.0      0.504      523.8     45.8
270.0      0.004      530.8     18.1
315.0      0.000      462.3     10.3

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m   Computed HAAT: 464 m

Distance to Canadian border: 1335.6 km

Distance to Mexican border: 578.0 km

Conditions at FCC monitoring station: Douglas AZ
Bearing: 202.8 degrees   Distance: 657.3 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 22.7 degrees   Distance: 379.0 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.
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