**HUMAN EXPOSURE TO RADIOFREQUENCY ELECTROMAGNETIC FIELDS COMPLIANCE STATEMENT PREPARED BY WILLIAM T. GODFEY, JR. OF THE FIRM KESSLER AND GEHMAN ASSOCIATES, INC., TELECOMMUNICATIONS CONSULTING ENGINEERS IN CONNECTION WITH A MINOR MODIFICATION OF A LICENSED DTV FACILITY APPLICATION TO CHANGE ANTENNAS FROM THE BOTTOM STACK ANTENNA WHICH BURNED UP TO THE TOP STACK ANTENNA.**

## ENVIRONMENTAL IMPACT

The KASY-DT Channel 36 post-auction facility will have no significant environmental impact as defined in §1.1307 of the FCC Rules. The digital transmitter, transmission line and antenna system produce a horizontally polarized ERP of 205 kW (H-pol Only). It was determined that the maximum lobe of radiation will occur at 161.3 feet from the base of the tower (268.0 ft radial distance from the antenna center). At 161.3 feet from the base of the tower, the depression angle of the main lobe will be approximately 53° below the horizontal. At that point, the relative field is 0.357 and the power density six feet above the ground will be 0.13087 mW/cm². This equates to 6.49% of the Maximum Permissible Exposure (MPE) limits for Occupational/Controlled Exposure and 32.45% of the MPE limits for General Population/Uncontrolled Exposure authorized by the American National Standards Institute (ANSI).

The KASY-DT facility is located at the Sandia Crest antenna farm, which is considered a “controlled” site. Access to the transmitting site is restricted and appropriately marked with warning signs. Furthermore, a protocol is in effect to control access to the site. In the event that workers or other authorized personnel enter the restricted area, appropriate measures shall be taken to limit RF energy exposure. Such measures include limiting the exposure time, wearing protective clothing, reducing power to an acceptable level or termination of transmitter output power all together until workers leave the restricted area.

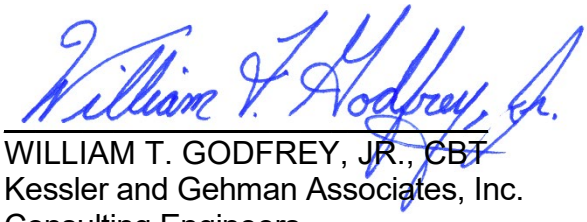
The current KASY license (0000074897) authorizes the KASY-DT Channel 36 facility to operate on the lower stack TUC-O5-8/40-B antenna which is 40 ft lower than the proposed TUD-O5-8/40-T upper stack antenna. The TUC-O5-8/40-B lower stack antenna burned up which is forcing KASY to move to the TUD-O5-8/40-T upper stack antenna. The additional 40 ft increase in antenna height is a benefiting factor that contributes to the proposed facility causing a calculated 3.27% less exposure for Occupational/Controlled and 16.35% less exposure for General Population/Uncontrolled Exposure than the KASY licensed facility. Also, Mission Broadcasting, Inc. participates in an RF electromagnetic field exposure safety program, along with other broadcasters and FCC licensees that utilize the Sandia Crest site area. Appropriate exposure abatement and access control procedures have been established and are followed in order to comply with the FCC's exposure limits. Measurements of RF electromagnetic fields shall be conducted to ensure continued compliance. RF exposure warning signs will continue to be posted and authorized personnel are trained and/or supervised as necessary for access to any "controlled" areas. Mission Broadcasting, Inc. will coordinate exposure procedures with all pertinent stations and will reduce power or cease operation as necessary to protect persons having access to the site, tower, and/or antenna.

If other antennas are placed on the tower in the future, the licensee will cooperate with those users by reducing or completely terminating the power to the antenna when maintenance workers are in danger from the electromagnetic radiation emanating from the antenna. It is also understood that additional antennas on the support structure could increase the overall RF exposure levels and it is the responsibility of each licensee to ensure that the total RF exposure resulting from the operation of all antennas on the support structure do not exceed the MPE level at any point on the ground.

## CERTIFICATION

This technical statement was prepared by William T. Godfrey, Jr., Engineering Associate with the firm Kessler and Gehman Associates, Inc. having offices in Gainesville, Florida,

and has been working with the firm in the field of radio and television broadcast consulting since 1998. Mr. Godfrey was a graduate from the University of North Florida and a Distinguished Military Graduate from the University of Florida. As a Professional in the field of Telecommunications he states under penalty of perjury that the information contained in this report is true and correct to the best of his knowledge and belief.



WILLIAM T. GODFREY, JR., CBT — 14 January, 2021
Kessler and Gehman Associates, Inc.
Consulting Engineers