

STANLEY BROADCAST ENGINEERING, INC.

KSLX-FM 100.7 MHz, CHANNEL 264C, SCOTTSDALE, ARIZONA
ANALYSIS OF RADIO FREQUENCY EXPOSURE CONDITIONS

ENGINEERING STATEMENT OF JAMES S. STANLEY

STANLEY BROADCAST ENGINEERING, INC. AND JAMES S. STANLEY HAVE BEEN RETAINED BY CACTUS RADIO INC., LICENSEE OF STATION KSLX-FM 100.7 MHz, SCOTTSDALE, ARIZONA TO EVALUATE COMPLIANCE WITH THE EXISTING GUIDELINES FOR LIMITING HUMAN EXPOSURE TO RADIO FREQUENCY ELECTROMAGNETIC FIELDS.

OVERVIEW

KSLX-FM HAS REPLACED THE MAIN TRANSMITTING ANTENNA WITH AN ELECTRONICS RESEARCH MODEL SHPX-7AC ANTENNA. PREVIOUSLY, KSLX OPERATED UTILIZING A HARRIS FMH-6AC6 WHICH SUFFERED A CATASTROPHIC FAILURE. KSLX-FM OPERATES FROM A BROADCAST TOWER AT THE SOUTH MOUNTAIN BROADCAST SITE, AT THE LICENSED GEOGRAPHIC COORDINATES 33° 19' 53.00" NORTH LATITUDE, 112° 03' 47.00" WEST LONGITUDE (NAD 27 DATUM). KSLX-FM OPERATES WITH 100.0 kW OF EFFECTIVE RADIATED POWER AT 561 METERS HAAT, 922 METERS HAMSL AND 120 METERS HAGL FOR THE ANTENNA RADIATION CENTER.

THE SOUTH MOUNTAIN COMMUNICATIONS SITE IS SURROUNDED ON ALL SIDES BY A CHAIN LINK FENCE, WITH ACCESS INTO THE SITE CONTROLLED BY TWO (2) SEQUENTIAL LOCKED GATES. THEREFORE, THE SOUTH MOUNTAIN SITE CAN BE EVALUATED UNDER FCC OCCUPATIONAL EXPOSURE GUIDELINES.

RADIO FREQUENCY EXPOSURE ANALYSIS

GIVEN THE ANTENNA TYPE, NUMBER OF ANTENNA ELEMENTS, POWER LEVEL AND HEIGHT OF THE ANTENNA RADIATION CENTER ABOVE GROUND LEVEL AS OUTLINED ABOVE; THE MAXIMUM CALCULATED POWER DENSITY AT 2 METERS ABOVE GROUND LEVEL IS 3% OF THE OCCUPATIONAL MPE LIMIT APPLICABLE TO THE FREQUENCY OF THE OPERATION. THEREFORE, THE KSLX-FM MAIN ANTENNA OPERATION IS CATEGORICALLY EXCLUDED UNDER SECTION 1.1307 (B)(3) OF YOUR COMMISSIONS RULES AND REGULATIONS; FROM HAVING TO CONSIDER THE CONTRIBUTIONS OF THE OTHER FACILITIES AT THE SITE.

AS AN ADJUNCT TO THE MAIN ANTENNA ANALYSIS, A STUDY WAS UNDERTAKEN TO EVALUATE THE RADIO FREQUENCY EXPOSURE LEVELS RESULTING FROM THE OPERATION OF THE KSLX-FM AUXILIARY ANTENNA WHICH IS CO-LOCATED WITH THE KSLX-FM MAIN TRANSMITTING ANTENNA.

THE RESULTS OF THE CALCULATIONS SHOW THAT THE LICENSED AUXILIARY ANTENNA CONTRIBUTES 1.3% OF THE OCCUPATIONAL MPE LIMIT APPLICABLE TO THIS FREQUENCY. THE SUM OF THE MAIN AND AUXILIARY MPE CALCULATIONS IS 4.3% AND THUS IS EXCLUDED UNDER 1.1307 (B)(3) OF THE RULES.

ACCESS TO THE SOUTH MOUNTAIN SITE, TO THE TOWER ON WHICH BOTH ANTENNAS ARE MOUNTED AND TO THE ASSOCIATED RADIO FREQUENCY TRANSMISSION EQUIPMENT IS RESTRICTED AND APPROPRIATELY MARKED WITH WARNING SIGNS. IN THE EVENT THAT WORKERS OR OTHER AUTHORIZED PERSONNEL NEED TO ENTER RESTRICTED AREAS OR CLIMB THE TOWER, APPROPRIATE MEASURES WILL BE TAKEN TO ENSURE WORKER SAFETY AS IT PERTAINS TO RADIO FREQUENCY RADIATION EXPOSURE IN ACCORDANCE WITH POWER REDUCTION TABLES FOR ON TOWER ACCESS; THAT HAVE BEEN DEVELOPED FOR THE SOUTH MOUNTAIN SITE.

A handwritten signature in black ink that reads "James S. Stanley". The signature is written in a cursive style with a large, stylized 'J' and 'S'.

JAMES S. STANLEY, CPBE
NO. 50725 EXPIRES 01/01/2015