

Educational Media Foundation

5700 West Oaks Boulevard ♦ Rocklin ♦ California ♦ 95765

Exhibit 17

Coyote, CA

Human exposure to excess levels of radiofrequency radiation

The proposed facility is to be built using a 1-bay vertically polarized antenna on the same site as the following:

| Status | Call | Licensee/Permittee | Channel | City |
|--------|--------|-----------------------------------|---------|---------------|
| LIC | KXSC | UNIVERSITY OF SOUTHERN CALIFORNIA | 285A | Sunnyvale, CA |
| LIC | K269GX | BUSTOS MEDIA HOLDINGS, LLC | 269D | San Jose, CA |
| App | KJLV | Educational Media Foundation | 249A | Los Altos, CA |

See Exhibit 17-A for antennas that were specified by each licensee/permittee.

As can be seen in Exhibit 17-A, the maximum theoretical RF value would be 44.86 $\mu\text{W}/\text{cm}^2$ at a distance of 4 meters from the tower, which is 22.43% of the 200 $\mu\text{W}/\text{cm}^2$ permitted for public (uncontrolled) exposure, and 4.49% of the 1000 $\mu\text{W}/\text{cm}^2$ permitted for worker (controlled) exposure.

Therefore, the proposed facility complies with the requirements of OET 65.

EMF will fully cooperate with other future site users to temporarily reduce power or cease broadcasting, as necessary, to protect workers and others having access to the site from excessive levels of RF Radiation.

Exhibit 17-A
RF Analysis: K281BL.P Coyote, CA

| | K281BL.P | KXSC | K269GX | KJLV.P |
|----------------------|-----------------|-------------|---------------|---------------|
| Site type: | Proposed | FM Station | FM Station | Proposed |
| Channel: | 281 | 285 | 269 | 249 |
| Class: | D | A | D | A |
| ERP: | 0.25 kw | 6 kw | 0.06 kw | 6 kw |
| Antenna: | SCA | ERI LPX | SCA | ERI |
| | EPA Type 1 | EPA Type 3 | EPA Type 1 | EPA Type 3 |
| | 1 bay | 3 bay | 1 bay | 2 bay |
| | full wave | half wave | full wave | 0.85 wave |
| COR AGL: | 14 m | 34m | 53 m | 56m |
| Polarization: | Vertical | Circular | Vertical | circular |

| Distance | | | | | Total | |
|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| From | K281BL.P | KXSC | K269GX | KJLV.P | RF | Percent of |
| Tower (m) | Facility | Facility | Facility | Facility | (uW/cm2) | 200uW/cm2 |
| 0 | 34.5178 | 1.1560 | 0.5780 | 2.5101 | 38.76 | 19.38 |
| 1 | 35.7282 | 1.1550 | 0.5840 | 2.5078 | 39.97 | 19.99 |
| 2 | 38.8503 | 1.1519 | 0.5895 | 2.5011 | 43.09 | 21.55 |
| 3 | 40.6070 | 1.1524 | 0.5946 | 2.4898 | 44.84 | 22.42 |
| 4 | 40.4118 | 1.3771 | 0.5993 | 2.4741 | 44.86 | 22.43 |
| 5 | 39.6052 | 1.6146 | 0.6082 | 2.4834 | 44.31 | 22.16 |
| 6 | 39.4050 | 1.8615 | 0.6250 | 2.7555 | 44.65 | 22.32 |
| 7 | 38.1826 | 2.1621 | 0.6414 | 3.0321 | 44.02 | 22.01 |
| 8 | 35.9798 | 2.4696 | 0.6574 | 3.3106 | 42.42 | 21.21 |
| 9 | 34.7563 | 2.7774 | 0.6729 | 3.5887 | 41.80 | 20.90 |
| 10 | 33.2067 | 3.0569 | 0.6790 | 3.8711 | 40.81 | 20.41 |
| 11 | 30.5920 | 3.3181 | 0.6798 | 4.2005 | 38.79 | 19.40 |
| 12 | 28.1627 | 3.5563 | 0.6802 | 4.5262 | 36.93 | 18.46 |
| 13 | 25.9199 | 3.7817 | 0.6800 | 4.8450 | 35.23 | 17.61 |
| 14 | 23.8641 | 3.9803 | 0.6794 | 5.1538 | 33.68 | 16.84 |
| 15 | 21.4264 | 4.1358 | 0.6771 | 5.4496 | 31.69 | 15.84 |
| 16 | 19.2804 | 4.2499 | 0.6742 | 5.7022 | 29.91 | 14.95 |
| 17 | 17.9333 | 4.3500 | 0.6708 | 5.9361 | 28.89 | 14.45 |
| 18 | 17.7803 | 4.3921 | 0.6671 | 6.1493 | 28.99 | 14.49 |
| 19 | 17.5445 | 4.3745 | 0.6629 | 6.3399 | 28.92 | 14.46 |
| 20 | 17.2389 | 4.3135 | 0.6617 | 6.5062 | 28.72 | 14.36 |
| 21 | 16.1293 | 4.2183 | 0.6614 | 6.6653 | 27.67 | 13.84 |
| 22 | 15.1094 | 4.0631 | 0.6607 | 6.8081 | 26.64 | 13.32 |
| 23 | 14.1716 | 3.8533 | 0.6595 | 6.9223 | 25.61 | 12.80 |
| 24 | 13.3088 | 3.5854 | 0.6579 | 7.0071 | 24.56 | 12.28 |
| 25 | 12.4681 | 3.2430 | 0.6538 | 7.0624 | 23.43 | 11.71 |
| 26 | 11.6838 | 2.8835 | 0.6442 | 7.0880 | 22.30 | 11.15 |
| 27 | 10.9656 | 2.5158 | 0.6346 | 7.1255 | 21.24 | 10.62 |
| 28 | 10.3069 | 2.1487 | 0.6249 | 7.1367 | 20.22 | 10.11 |
| 29 | 9.7018 | 1.7896 | 0.6151 | 7.1169 | 19.22 | 9.61 |
| 30 | 9.1450 | 1.4471 | 0.6053 | 7.0668 | 18.26 | 9.13 |
| 31 | 8.5807 | 1.1296 | 0.5976 | 6.9877 | 17.30 | 8.65 |
| 32 | 8.0630 | 0.8431 | 0.5927 | 6.8809 | 16.38 | 8.19 |
| 33 | 7.5882 | 0.5929 | 0.5877 | 6.7756 | 15.54 | 7.77 |
| 34 | 7.1520 | 0.3832 | 0.5824 | 6.6563 | 14.77 | 7.39 |
| 35 | 6.7506 | 0.2166 | 0.5770 | 6.5105 | 14.05 | 7.03 |
| 36 | 6.3804 | 0.0967 | 0.5714 | 6.3405 | 13.39 | 6.69 |
| 37 | 6.0384 | 0.0244 | 0.5657 | 6.1484 | 12.78 | 6.39 |
| 38 | 5.7221 | 0.0000 | 0.5544 | 5.9366 | 12.21 | 6.11 |
| 39 | 5.4232 | 0.0229 | 0.5425 | 5.7076 | 11.70 | 5.85 |
| 40 | 5.1414 | 0.0920 | 0.5309 | 5.4254 | 11.19 | 5.59 |
| 41 | 4.8801 | 0.2060 | 0.5195 | 5.1272 | 10.73 | 5.37 |
| 42 | 4.6374 | 0.3634 | 0.5083 | 4.8259 | 10.34 | 5.17 |
| 43 | 4.4118 | 0.5619 | 0.4974 | 4.5237 | 9.99 | 5.00 |
| 44 | 4.2016 | 0.7992 | 0.4866 | 4.2225 | 9.71 | 4.85 |
| 45 | 4.0055 | 1.0722 | 0.4761 | 3.9240 | 9.48 | 4.74 |

| Distance From Tower (m) | K281BL.P Facility | KXSC Facility | K269GX Facility | KJLV.P Facility | Total RF (uW/cm2) | Percent of 200uW/cm2 |
|-------------------------------|----------------------|------------------|--------------------|--------------------|-------------------------|-------------------------|
| 46 | 3.8224 | 1.3782 | 0.4657 | 3.6299 | 9.30 | 4.65 |
| 47 | 3.6511 | 1.7140 | 0.4556 | 3.3417 | 9.16 | 4.58 |
| 48 | 3.4908 | 2.0764 | 0.4458 | 3.0585 | 9.07 | 4.54 |
| 49 | 3.3404 | 2.4561 | 0.4361 | 2.7845 | 9.02 | 4.51 |
| 50 | 3.1993 | 2.8455 | 0.4267 | 2.5207 | 8.99 | 4.50 |
| 51 | 3.0667 | 3.2484 | 0.4174 | 2.2680 | 9.00 | 4.50 |
| 52 | 2.9419 | 3.6618 | 0.4084 | 2.0271 | 9.04 | 4.52 |
| 53 | 2.8331 | 4.0830 | 0.3996 | 1.7988 | 9.11 | 4.56 |
| 54 | 2.7329 | 4.5095 | 0.3883 | 1.5836 | 9.21 | 4.61 |
| 55 | 2.6377 | 4.9388 | 0.3774 | 1.3820 | 9.34 | 4.67 |
| 56 | 2.5474 | 5.3690 | 0.3669 | 1.1942 | 9.48 | 4.74 |
| 57 | 2.4615 | 5.7978 | 0.3567 | 1.0189 | 9.63 | 4.82 |
| 58 | 2.3798 | 6.2237 | 0.3468 | 0.8584 | 9.81 | 4.90 |
| 59 | 2.3021 | 6.6482 | 0.3372 | 0.7125 | 10.00 | 5.00 |
| 60 | 2.2280 | 7.0951 | 0.3280 | 0.5812 | 10.23 | 5.12 |
| 61 | 2.1574 | 7.5372 | 0.3191 | 0.4643 | 10.48 | 5.24 |
| 62 | 2.0900 | 7.9732 | 0.3105 | 0.3614 | 10.74 | 5.37 |
| 63 | 2.0257 | 8.4018 | 0.3021 | 0.2724 | 11.00 | 5.50 |
| 64 | 1.9643 | 8.8221 | 0.3005 | 0.1967 | 11.28 | 5.64 |
| 65 | 1.9056 | 9.2331 | 0.3000 | 0.1341 | 11.57 | 5.79 |
| 66 | 1.8494 | 9.6339 | 0.2994 | 0.0840 | 11.87 | 5.93 |
| 67 | 1.7957 | 10.0239 | 0.2987 | 0.0461 | 12.16 | 6.08 |
| 68 | 1.7442 | 10.4025 | 0.2979 | 0.0198 | 12.46 | 6.23 |
| 69 | 1.6949 | 10.7692 | 0.2970 | 0.0046 | 12.77 | 6.38 |
| 70 | 1.6476 | 11.1236 | 0.2960 | 0.0000 | 13.07 | 6.53 |
| 71 | 1.6023 | 11.4654 | 0.2949 | 0.0056 | 13.37 | 6.68 |
| 72 | 1.5587 | 11.7944 | 0.2937 | 0.0208 | 13.67 | 6.83 |
| 73 | 1.5169 | 12.1056 | 0.2925 | 0.0452 | 13.96 | 6.98 |
| 74 | 1.4768 | 12.3518 | 0.2912 | 0.0783 | 14.20 | 7.10 |
| 75 | 1.4382 | 12.5842 | 0.2898 | 0.1196 | 14.43 | 7.22 |
| 76 | 1.4011 | 12.8030 | 0.2872 | 0.1686 | 14.66 | 7.33 |
| 77 | 1.3653 | 13.0084 | 0.2822 | 0.2247 | 14.88 | 7.44 |
| 78 | 1.3309 | 13.2008 | 0.2773 | 0.2876 | 15.10 | 7.55 |
| 79 | 1.2978 | 13.3806 | 0.2725 | 0.3566 | 15.31 | 7.65 |
| 80 | 1.2663 | 13.5479 | 0.2678 | 0.4314 | 15.51 | 7.76 |
| 81 | 1.2361 | 13.7032 | 0.2632 | 0.5098 | 15.71 | 7.86 |
| 82 | 1.2070 | 13.8468 | 0.2587 | 0.5925 | 15.90 | 7.95 |
| 83 | 1.1789 | 13.9792 | 0.2543 | 0.6790 | 16.09 | 8.05 |
| 84 | 1.1517 | 14.1005 | 0.2500 | 0.7690 | 16.27 | 8.14 |
| 85 | 1.1255 | 14.2113 | 0.2457 | 0.8620 | 16.44 | 8.22 |
| 86 | 1.1002 | 14.3119 | 0.2416 | 0.9576 | 16.61 | 8.31 |
| 87 | 1.0757 | 14.4027 | 0.2376 | 1.0555 | 16.77 | 8.39 |
| 88 | 1.0519 | 14.4841 | 0.2337 | 1.1553 | 16.92 | 8.46 |
| 89 | 1.0290 | 14.5564 | 0.2298 | 1.2566 | 17.07 | 8.54 |
| 90 | 1.0068 | 14.6199 | 0.2260 | 1.3593 | 17.21 | 8.61 |
| 91 | 0.9853 | 14.6751 | 0.2223 | 1.4629 | 17.35 | 8.67 |
| 92 | 0.9645 | 14.7223 | 0.2187 | 1.5672 | 17.47 | 8.74 |
| 93 | 0.9443 | 14.7619 | 0.2149 | 1.6720 | 17.59 | 8.80 |
| 94 | 0.9248 | 14.7987 | 0.2111 | 1.7770 | 17.71 | 8.86 |
| 95 | 0.9058 | 14.8317 | 0.2075 | 1.8819 | 17.83 | 8.91 |
| 96 | 0.8874 | 14.8578 | 0.2039 | 1.9867 | 17.94 | 8.97 |
| 97 | 0.8696 | 14.8774 | 0.2005 | 2.0910 | 18.04 | 9.02 |
| 98 | 0.8523 | 14.8907 | 0.1971 | 2.2008 | 18.14 | 9.07 |
| 99 | 0.8355 | 14.8981 | 0.1938 | 2.3103 | 18.24 | 9.12 |
| 100 | 0.8192 | 14.8998 | 0.1905 | 2.4192 | 18.33 | 9.16 |