

Exhibit
Power and Channel 10

Claude,

I have verified that the 150 megawatts is the correct peak power ERP. Since the ETS Test Range consist of 4600 acres located in the middle of the Deseret cattle ranch which consist of approximately 350,000 acres, I have calculated both the peak and average power density in watts per square meter at the nearest test range fence line, and the nearest Deseret ranch controlled boundary. The peak power density at the nearest test range fence line (2414 meters) is 2.0 watts/m² and 0.15 watts/m² at the nearest controlled Deseret boundary (8851.3 meters). With a duty cycle of 0.00000025 (25 Hz*10*10⁻⁹), the average power density at the nearest test range fence line is 5.12E-7 watts/m², and 3.81E-8 watts/m² at the nearest controlled Desert boundary. The planned test setup has been developed to minimize the RF radiation emissions in the direction of populated areas by pointing the antenna down 2 degrees from horizontal with a 168 degree bearing from due north. This test orientation points the RF energy into 6 miles of heavy vegetation with the nearest populated area being over 30 miles away. Finally, We have identified the location of the nearest channel 10 Television station as being in the St. Petersburg Florida area which is not in our transmitted beam and is approximately 100 miles away at a bearing of 247 degree bearing from due north.

Thanks Roger Barker