

## **KZHK, St. George, UT; FCC FID# 40519**

### **TRANSMITTER POWER OUTPUT Calculation:**

Authorized ERP: 70 kW

AAT SF-HP-12-HW-SP antenna gain: 4.72

320 ft AAT 618-50-20 6-1/8" 50 ohm rigid line efficiency: 0.966

AAT Branch Combiner filter efficiency: 0.979

TPO: 15.681 kW

Confirmation:  $15.681 \times .979 \times .966 \times 4.72 = 69.9963 \text{ kW}$