2) MPE estimate has 57 dBm = 500 W. Please explain if/how this corresponds to 10kW output power on Form731.

As described on page 5 (bottom right hand corner of page) of our submission, the transmitter is composed of a power combiner that sums a variable quantity of 125 watt RF power amplifiers to generate the coherent output RF signal of a desired level. This is a pulsed radar system operating at a maximum of 5% duty Cycle. The PULSAR RF Power modules are designed to be power added to "optionally" produce the following output RF power levels:

PULSAR VARIANT MODEL NUMBERS	
Nomenclature	***RF Peak Pulse Power***
Pulsar	Standard, 250 Watts minimum
Pulsar–1	Optional, 500 Watts typical
Pulsar-2	Optional, 1000 Watts typical
Pulsar-3	Optional, 2000 Watts typical
Pulsar-4	Optional, 5000 Watts typical
Pulsar-5	Optional, 10,000 Watts typical

Thus, the PULSAR-5 operating a 10,000 watts peak power would produce an average power of 27dBW or 57dBM. Since the radiation hazard potential is calculated in milliWatts/cm^2, the formula requires the transmitter "average power" to be inserted in milliWatts, thus 57dBM would be the worst case for average power.