

Exhibit A

The present application seeks authorization for EMI testing of Sierra Space Corporation owned Dream Chaser Space Plane in development. This testing is in advance of the first (proof of concept) Dream Chaser Mission (DCC-1) Mission to the International Space Station under a NASA CRS2 contract. The details of the DCC-1 RF Mission are contained in Sierra Space Corporation STA file number 0660-ST-EX-2024, herein incorporated by reference.

The present contains additional information regarding the testing configuration and corresponding parameters for Dream Chaser EMI testing. The equipment under test is the Dream Chaser Space plane, previously the subject of an FCC STA award, call sign WX9XBF, based on applications file number 0341-EX-ST-2024, 0754-EX-ST-2024, and 1240-EX-ST-2024. The EMI testing started under the grant resulting from the application file number 0754-EX-ST-2024, and is on-going under another grant resulting from application file number 1240-EX-ST-2024. Due to unforeseen circumstances, testing needs to carry on through no later than summer of 2025, and an STA is being sought herein to cover operations expected to occur no later than 06/01/2025.

Provided below is more information regarding testing parameters, including antennae data and test distances, as well as schematic of the configuration which Sierra Space expects will be used during the testing. The frequency ranges are narrower than those reflected in the FCC STA award, call sign WX9XBF based on application file number 1240-EX-ST-2024. The ERP levels are lower and maximum height is the same as in call sign WX9XBF based on application file number 1240-EX-ST-2024. Additionally, Sierra Space will be conducting the testing itself. AFTRCC and FAA coordination are being initiated, and the corresponding coordination reports will be made available to the FCC as soon as complete. To the extent necessary a radiation hazard study to determine compliance with 1.311 of FCC's Rules may be made available, though 8 field monitor probes will be placed around a 40-foot perimeter to provide alert to levels that exceed IEEE C95.1-2019 exposure levels for general population, with the goal of achieving the intent of 1.311 of FCC's Rules.

Considering the record on applying for authority to transmit during the on-going EMI testing as reflected FCC STA grants call sign WX9XBF , several frequency segments including the following frequencies will be notched out: • 73-74.6 MHz, • 121.5 MHz, • 243 MHz, • 225.000-328.600 MHz, • 335.400-399.900 MHz, • 400.15-420 MHz, • 449.75-450.25 MHz, • 608-614 MHz, • 1222.1-1233.1 MHz, • 1400-1427 MHz, • 1567.748-1583.093 MHz, • 1660.5-1668.4 MHz, • 2025-2110 MHz, • 2200-2300 MHz, • 2360-2380 MHz, • 2400-2500 MHz, • 2690-2700 MHz, • 107.85 – 138 MHz, • 165.174 MHz +- 7.5 kHz, • 328.600-335.400 MHz, • 401 – 406.1 MHz, • 410.3 MHz +-6 kHz, • 976-1390 MHz, • 1544 – 1545 MHz, • 1670 – 1695 MHz, • 2025 – 2110 MHz, • 2200 – 2290 MHz, • 2700-2900 MHz.

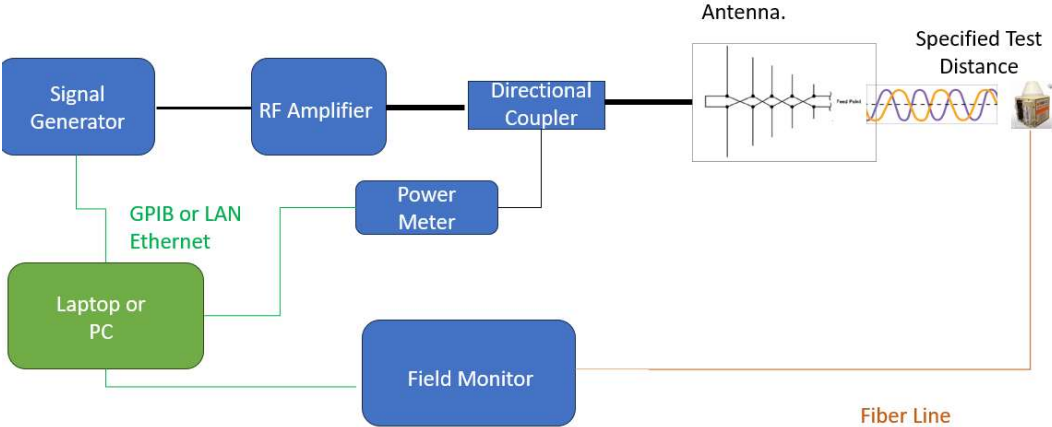
In the rare event that transmissions have any negative impact on existing operations of licensees, you may contact our stop buzzer personnel, Mr. Ronak Shah (720) 560-8589, Mr. Edward Barnes (720) 572-3841 or you may contact our transmission operations desk at (321)-867-6780.

Table 1: Frequencies of Operation (See paragraph above for notched out frequencies)

Frequency Range [MHz]	Input Power	Amplifier	FCC Limit ERP [dBW]	Antenna	Gain [dBi]	Distance to Equipment Under Test (Meters)	Field at EUT (Volts/Meter)
100-200	85 Watts 19.3 dBW	AMPL- 250W1000C	137 (21.37 dBW)		≈4.0	2	40
200-224	116 Watts 20.6 dBW	AMPL- 250W1000C	310 (24.91 dBW)	AA-100M1G	≈6.2	2	60
329.6-334.4	121 Watts 20.9 dBW	AMPL- 250W1000C	310 (24.91 dBW)	AA-100M1G	≈6.2	2	60
400.9-1000	≈121 Watts 20.9 dBW	AMPL- 250W1000C	310 (24.91 dBW)	AA-100M1G	≈6.0	2	60
1000-1784	≈130 Watts 21.15 dBW	AMPL- 250S1G6	310 (24.91 dBW)	AA-DRG- 118	≈5.9	2	60
1785-2379	≈61 Watts 17.85 dBW	AMPL- 250S1G6	310 (24.91 dBW)	AA-DRG- 118	≈9.0	1	200
2380-3500	≈38.5Watts 15.9 dBW	AMPL- 250S1G6	310 (24.91 dBW)	AA-DRG- 118	≈11.0	2	60

ERP (dBW) = G(dBi) + Pin (dBW) - 2.15

Figure 1: Test Configuration



N/B. Additionally, 8 field monitor probes will be placed around a 40 foot perimeter to provide alert to levels that exceed IEEE C95.1-2019 exposure levels for general population.

Figure 2: Equipment under test configuration

