

The GPS Re-radiation system components are listed in the table below. The system utilizes an active antenna mounted on the rooftop of the hanger with the signal routed to a lightning arrestor then a splitter and then the amplifier assembly. Coaxial cable equivalent to LMR-240 are utilized between these connections with the passive antenna directly connected to the amplifiers output port. The amplifier passive antenna combination is directed diagonally across the hanger to gain maximum effectiveness and reduce emissions out of the hanger door when open.

GPS Re-radiation System Components

ITEM	MANUFACTURER	PART NUMBER
GNSS Active Antenna	GPS Source	L1L2-2GA-PM-NF
Coaxial Cable Assembly (from active antenna)	GPS Source	C240-15-NM
LIGHTNING ARRESTOR	POLYPHASER	DGXZ+15NFNF-A
Coaxial Cable Assembly (from lightning arrestor)	GPS Source	C240-100-NM
SPLITTER, 2-WAY	GPS SOURCE	S12-NF
Coaxial Cable Assembly (from splitter)	GPS Source	C240-10-NM
GNSS "Smart Amplifier"	GPS Source	METRO-M-F12-P110/6.8-NF-NM
GNSS Passive Antenna	GPS Source	L1L2-2GP-NF

Equipment Locations

ITEM	Latitude	Longitude	Height/Distance
GNSS Active Antenna	43 06 8.68 N	78 56 18.58 W	60 ft above base elevation
GNSS Amplifier and Passive Antenna	43 06 8.68 N	78 56 18.58 W	30 ft above base elevation
Splitter	43 06 8.68 N	78 56 18.58 W	30 ft above base elevation
Base Elevation			585 ft
Tx distance to nearest outside wall (D ₀)			17.5 ft
-140 dB threshold from outer wall (D)			100 ft