

Response to #37868
File No. 037868
SkyWest Airlines

ERP CALCULATOR

dBM Output			Distance from the retransmit antenna							
Level	20 ft	50 ft	100 ft	150 ft	200 ft				Range in Feet	Repeated Signal Power @ Range In dBm
-85	-137	-145	-151	-154	-157				100	-141.10
-84	-136	-144	-150	-153	-156					
-83	-135	-143	-149	-152	-155		GPS Carrier Frequency MHz		Range in Miles	Total Signal Power @ Range in Watts
-82	-134	-142	-148	-151	-154		1575.42		0.02	7.8E-18
-81	-133	-141	-147	-150	-153					
-80	-132	-140	-146	-149	-152		Avg Receive Power L1 dBm North America		Range in Meters	SkyWest Radiated Power Range
-79	-131	-139	-145	-148	-151		-130		31.17	-75
-78	-130	-138	-144	-147	-150					
-77	-129	-137	-143	-146	-149		Free Space loss with Isotropic Antennas			
-76	-128	-136	-142	-145	-148		-66.10			
-75	-127	-135	-141	-144	-147					
-74	-126	-134	-140	-143	-146					
-73	-125	-133	-139	-142	-145					
-72	-124	-132	-138	-141	-144					
-71	-123	-131	-137	-140	-143					
-70	-122	-130	-136	-139	-142					
-69	-121	-129	-135	-138	-141					
-68	-120	-128	-134	-137	-140					
-67	-119	-127	-133	-136	-139					
-66	-118	-126	-132	-135	-138					
-65	-117	-125	-131	-134	-137					

