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January 18, 2019

Subject: Antenna Kitting

Re: FCC ID: PWO460055

To Whom It May Concern:

The antenna kitting options for model 460055 signal booster were done for 19 Outside Antennas, and 1 Inside Antenna kit option:

Outside Antennas

1	NMO Antenna w/14' RG-58	314405
2	Magnet Mount w/12.5' RG-174	301103
3	Magnet Mount w/12.5' RG-174	311125
4	Magnet Mount w/12.5' RG-174	311128
5	Magnet Mount w/12.5' RG-174	314202
6	NMO Antenna w/10' RG-58	314203-5810
7	Marine Antenna w/10' RG-58	311130-5810
8	Glass Mount w/14' RG-58	311102
9	Trucker Antenna w/15' RG-58	304414
10	Trucker Antenna w/15' RG-58	304415
11	Mini-Mag Mount w/10' LMR-100	ANT000017
12	Trucker Antenna w/13.5' RG-58	311119
13	Trucker Antenna w/13.5' RG-58	311133
14	NMO Antenna 10' RG-174	314203-17410
15	NMO Antenna 10' RG-174	311104-17410
16	Mini-Mag Mount w/12.5' RG-174	301113
17	Mini-Mag Mount w/12.5' RG-174	301126
18	Marine Antenna w/20' RG-58	304420
19	NMO Antenna 10' RG-174	311112-17410

Inside Antenna

1	Low Profile Antenna w/10' LMR-100	ANT000006
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All equivalent or lesser antennas and cables are suitable for use with 460055 signal booster

Sincerely,

Erin Elder

IP & Regulatory Compliance Engineer



**Mobile Outside Antenna Kit Options**

FCC ID: PWO460055

Final Output Power Limited to 30 dBm EIRP in all frequency bands

Uplink Frequency (MHz)	698-716	777-787	824-849	1710-1755	1850-1915
Uplink Output Power (dBm)	27.3	27.1	27.0	28.4	27.7

NMO Antenna w/14' RG-58	314405				
Antenna Gains (dBi)	4.3	4.5	4.7	4.4	5.5
Coax Loss (dB)	1.7	1.7	1.9	3.0	3.2
Final Gain less Loss (dB)	2.6	2.8	2.8	1.5	2.2
Output Power plus Final Gain (dBm EIRP)	29.9	29.9	29.8	29.9	29.9

Magnet Mount w/12.5' RG-174	301103	314202	311125	311128	
Antenna Gains (dBi)	-4.2	0.6	2.1	-5.3	4.7
Coax Loss (dB)	3.4	3.5	3.8	6.2	6.9
Final Gain less Loss (dB)	-7.7	-2.9	-1.7	-11.5	-2.2
Output Power plus Final Gain (dBm EIRP)	19.6	24.2	25.3	16.9	25.5

NMO Antenna w/10' RG-58	314203-5810				
Antenna Gains (dBi)	-1.57	0.48	1.82	-5.74	0.75
Coax Loss (dB)	1.2	1.2	1.3	2.1	2.1
Final Gain less Loss (dB)	-2.8	-0.7	0.5	-7.8	-1.4
Output Power plus Final Gain (dBm EIRP)	24.5	26.4	27.5	20.6	26.4

Marine Antenna w/10' RG-58	311130-5810				
Antenna Gains (dBi)	-1.0	-1.6	0.65	-1.68	3.57
Coax Loss (dB)	1.2	1.2	1.3	2.1	2.1
Final Gain less Loss (dB)	-2.2	-2.9	-0.6	-3.7	1.4
Output Power plus Final Gain (dBm EIRP)	25.2	24.2	26.4	24.7	29.1

Glass Mount w/14' RG-58	311102				
Antenna Gains (dBi)	-3.68	-2.54	-0.86	2.19	3.39
Coax Loss (dB)	1.6	1.7	1.8	2.9	3.0
Final Gain less Loss (dB)	-5.3	-4.2	-2.7	-0.7	0.4
Output Power plus Final Gain (dBm EIRP)	22.0	22.9	24.3	27.7	28.1

Trucker Antenna w/15' RG-58	304414 304415				
Antenna Gains (dBi)	2.86	1.2	1.69	2.78	5.01
Coax Loss (dB)	1.8	1.8	2.0	3.2	3.5
Final Gain less Loss (dB)	1.1	-0.6	-0.3	-0.4	1.6
Output Power plus Final Gain (dBm EIRP)	28.4	26.5	26.7	28.0	29.3

Mini-Mag Mount w/10' LMR-100	ANT000017				
Antenna Gains (dBi)	-1.4	-1.7	-1.4	-0.6	0.4
Coax Loss (dB)	0.47	0.48	0.5	0.62	0.65
Final Gain less Loss (dB)	-1.9	-2.2	-1.9	-1.2	-0.3



**Mobile Outside Antenna Kit Options**

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Final Output Power Limited to 30 dBm EIRP in all frequency bands

Uplink Frequency (MHz)	698-716	777-787	824-849	1710-1755	1850-1915
Uplink Output Power (dBm)	27.3	27.1	27.00	28.4	27.7

Trucker Antenna w/13.5' RG-58	311119				
Antenna Gains (dBi)	-1.36	0.36	1.21	-2.3	3.57
Coax Loss (dB)	1.6	1.7	1.7	2.8	2.9
Final Gain less Loss (dB)	-3.0	-1.3	-0.5	-5.1	0.7
Output Power plus Final Gain (dBm EIRP)	24.3	25.8	26.5	23.3	28.4

Trucker Antenna w/13.5' RG-58	311133				
Antenna Gains (dBi)	-3.3	0.2	1.15	-4.75	4.22
Coax Loss (dB)	1.6	1.7	1.7	2.8	2.9
Final Gain less Loss (dB)	-4.9	-1.6	-0.6	-7.6	1.3
Output Power plus Final Gain (dBm EIRP)	22.5	25.6	26.5	20.9	29.0

NMO Antenna 10' RG-174	314203-17410				
Antenna Gains (dBi)	-1.57	0.48	1.82	-5.74	0.75
Coax Loss (dB)	2.3	2.4	3.0	3.6	3.8
Final Gain less Loss (dB)	-3.9	-1.9	-1.2	-9.3	-3.1
Output Power plus Final Gain (dBm EIRP)	23.4	25.2	25.8	19.1	24.7

NMO Antenna 10' RG-174	311104-17410				
Antenna Gains (dBi)	-4.1	-0.9	2.48	-3.51	1.8
Coax Loss (dB)	2.3	2.4	3.0	3.6	3.8
Final Gain less Loss (dB)	-6.4	-3.3	-0.5	-7.1	-2.0
Output Power plus Final Gain (dBm EIRP)	20.9	23.8	26.5	21.3	25.7

Mini-Mag Mount w/12.5' RG-174	301126	301113			
Antenna Gains (dBi)	-1.4	-1.7	-1.4	-0.6	0.4
Coax Loss (dB)	2.8	3	3.7	4.5	4.7
Final Gain less Loss (dB)	-4.2	-4.7	-5.1	-5.1	-4.3
Output Power plus Final Gain (dBm EIRP)	23.1	22.4	21.9	23.3	23.4

Marine Antenna w/20' RG-58	304420				
Antenna Gains (dBi)	2.86	1.2	1.69	2.78	5.01
Coax Loss (dB)	2.4	2.4	2.7	4.2	4.6
Final Gain less Loss (dB)	0.5	-1.2	-1.0	-1.4	0.4
Output Power plus Final Gain (dBm EIRP)	27.8	25.9	26.0	27.0	28.1

NMO Antenna 10' RG-174	311112-17410				
Antenna Gains (dBi)	-3.2	-0.5	2.5	-2.6	-0.7
Coax Loss (dB)	2.8	2.8	3.1	5.0	5.5
Final Gain less Loss (dB)	-5.9	-3.2	-0.6	-7.56	-6.2



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## Inside Antenna Kit

Uplink Frequency Band (MHz)	698-716	777-787	824-849	1710-1755	1850-1915
Measured Uplink Gain (dB)	48.9	48.90	49.10	49.60	49.60
Measured RSSI Shutoff (dBm/MHz)	-56.8	-57.50	-58.00	-51.60	-51.40
MSCL Minimum (dB)	26.10	25.40	25.10	32.00	32.20
1.5' Separation Distance Path Loss (dB)	22.66	23.53	24.12	30.44	31.16
Polarity Loss (dB)	3.0	3.0	3.0	3.0	3.0
Max Antenna Gain Less Cable Loss (dB)	-0.44	1.13	2.02	1.44	1.96

Low Profile Antenna w/10' LMR-100	ANT000006				
Antenna Gain Less Cable Loss (dB)	-2.07	0.88	0.67	1.24	1.17
	okay	okay	okay	okay	okay
	-1.63	-0.25	-1.35	-0.20	-0.79