

Bellingham to Mount Constitution

This shot consists of 1 radio system transmitting through 1 antenna at each location.
The additional page in this spreadsheet contains a screen shot of the summary page for the radio system.

Indications of a properly operating link:

No Alarms

RSL within ± 3 dB of calculated

$E_b/N_o \geq 19$ dB

Signal to Noise Ratio (SNR) ≥ 24 db

Equalizer Stress typically 30, but < 150

Each radio indicates a properly operating link, despite the ATPC Alarm indication. That alarm indicates that the Automatic Transmit Power Control circuit is off, which is the normal operating condition for microwave radio systems operating within CTL.

There is also an Alarm indication on the .171 radio, which is located in Bellingham. This alarm is a Port 2 Open alarm, which indicates that the Management cable is disconnected. This is due to the Bellingham radio not being connected to the local CO-LAN. Management is done via the Mt. Constitution LAN, with data transmitted via the radio link.

Currently, this radio system has a throughput of approximately 144 Mbps.

**** The Tower Inspection Forms are embedded in the third and fourth sheets and consists of three pages that can be scrolled through.****

**** Double click within the word doc window to scroll. A scroll wheel on a mouse works best.****

DragonWave HORIZON WEB MANAGEM

HOME PERFORMANCE CONFIGURATION DIAGNOSTICS ALARMS TOOLS CONTACTS

Modem	Up
Radio	Up
Wireless Link:	Up
Radio Tx	On
Tx Power	16.8 dBm
RSL	-35.1 dBm
SNR	37.61 dB
Eb/No	28.90 dB
Equalizer Stress	37
Atpc Status	Off
Loopback	Off
AAM	Off
HAAM	Off
RLS	Off
Redundancy	off
Alarms:	Yes

Refresh every seconds

Notes: 0 turns off the self-refresh.

System Licensed Speed	400 Mbps
System Current Speed	400 Mbps
System Mode	hc40_277_256qam
Software/Hw Inventory	Software/Hw inventory
Unit Serial Number	DW106AHF1002
Network Management Interface port	port2 extended
RLS ShutDown	Off
Telnet Access	On
SNMP Access	Off
SSH Server Status	Ready
IP Address	10.64.120.171
Subnet Mask	255.255.255.0
Gateway	10.64.120.161
Radio Band	fcc11_1_40
Tx Frequency	10935000 KHz
Rx Frequency	11425000 KHz

[More information:](#)

[System Name:](#) Bellingham - Mt. Constitution

[System Location:](#) Bellingham Main

[Manage your Peer Horizon@ system:](#) 10.64.120.170

http://10.64.120.170/ Horizon® - 10.64.120.170

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Suggested Sites

DragonWave HORIZON WEB MANAGEM

HOME PERFORMANCE CONFIGURATION DIAGNOSTICS ALARMS TOOLS CONTACTS

Modem Up
Radio Up
Wireless Link: Up

Radio Tx On
Tx Power 19.5 dBm
RSL -37.5 dBm
SNR 38.43 dB
Eb/No 29.70 dB
Equalizer Stress 30

[Atpc Status](#) Off
[Loopback](#) Off
[AAM](#) Off
[HAAM](#) Off
[RLS](#) Off
[Redundancy](#) off

Alarms: No

Refresh every seconds

Notes: 0 turns off the self-refresh.

System Licensed Speed	400 Mbps
System Current Speed	400 Mbps
System Mode	hc40_277_256qam
Software/Hw Inventory	Software/Hw inventory
Unit Serial Number	DW105AHG1001
Network Management Interface port	port2 extended
RLS ShutDown	Off
Telnet Access	On
SNMP Access	Off
SSH Server Status	Ready
IP Address	10.64.120.170
Subnet Mask	255.255.255.0
Gateway	10.64.120.161
Radio Band	fcc11_1_40
Tx Frequency	11425000 KHz
Rx Frequency	10935000 KHz

[More in information:](#)

System Name: Mt Constitution - Bellingham

System Location: Mt. Constitution

Manage your Peer Horizon@ system: 10.64.120.171

http://10.64.120.170/config.htm

7:50 AM
12/28/2015

ANTENNA AND TOWER ROUTINE INSPECTION

SITE NAME __Bellingham__

SITE LOCATION __Bellingham, WA__

SITE CLLI __BHLMWA01__

DATE __01/12/2016__

INSPECTED BY __Ford - Hogue__

ANTENNA AND TOWER ROUTINE INSPECTION

SITE NAME ___Mt. Constitution North___

SITE LOCATION ___Orcas Island___

SITE CLLI ___MTCSWAQA___

DATE ___01/13/2016___

INSPECTED BY ___Ford - Hogue___