

Friday to Mount Constitution

This shot consists of 4 separate radio systems transmitting through 2 separate antennas at each location. The additional pages in this spreadsheet contain screen shots of the summary pages for each system.

Indications of a properly operating link:

No Alarms

RSL within ± 3 dB of calculated

Eb/No ≥ 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.

Currently, Radio Systems 2 & 3 have zero thruput, while Radio 1 has approximately 18 Mbps thruput and Radio 3 has approximately 126 Mbps thruput.

Systems 2 & 3 are set up to take service in case of a fiber cut, thus the zero thruput.

**** The Tower Inspection Forms are embedded in the sixth and seventh sheet 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.****

System Licensed Speed: 300 Mbps
 System Current Speed: 300 Mbps
 System Mode: hc40_277_256qam
 Software/Hw Inventory: [Software/Hw inventory](#)
 Unit Serial Number: DW108AHE1003
 Network Management Interface port: port2
 RLS ShutDown: Off
 Telnet Access: On
 SNMP Access: Off
 SSH Server Status: Ready
 IP Address: 10.64.32.101
 Subnet Mask: 255.255.255.0
 Gateway: 10.64.32.1
 Radio Band: fcc11_2_40
 Tx Frequency: 11055000 KHz
 Rx Frequency: 11545000 KHz

More information:
System Name: Friday Harbor - Mt. Constitution
System Location: Friday Harbor - A1- Upper Dish - Left
Manage your Peer Horizon® system: 10.64.120.165

System Licensed Speed: 300 Mbps
 System Current Speed: 300 Mbps
 System Mode: hc40_277_256qam
 Software/Hw Inventory: [Software/Hw inventory](#)
 Unit Serial Number: DW107AHE1003
 Network Management Interface port: port2
 RLS ShutDown: Off
 Telnet Access: On
 SNMP Access: Off
 SSH Server Status: Ready
 IP Address: 10.64.120.165
 Subnet Mask: 255.255.255.0
 Gateway: 10.64.120.161
 Radio Band: fcc11_2_40
 Tx Frequency: 11545000 KHz
 Rx Frequency: 11055000 KHz

More information:
System Name: Mt. Constitution - Friday Harbor
System Location: Mt. Constitution - A1 - Upper Dish - Left
Manage your Peer Horizon@ system: 10.64.32.101

http://10.64.32.102/ Horizon® - 10.64.32.102

File Edit View Favorites Tools Help

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 19.1 dBm
 RSL -44.5 dBm
 SNR 40.04 dB
 Eb/No 31.30 dB
 Equalizer Stress 38

[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	300 Mbps
System Current Speed	300 Mbps
System Mode	hc40_277_256qam
Software/Hw Inventory	Software/Hw inventory
Unit Serial Number	DW108AHE1002
Network Management Interface port	port2
RLS ShutDown	Off
Telnet Access	On
SNMP Access	Off
SSH Server Status	Ready
IP Address	10.64.32.102
Subnet Mask	255.255.255.0
Gateway	10.64.32.1
Radio Band	fcc11_2_40
Tx Frequency	11015000 KHz
Rx Frequency	11505000 KHz

[More information:](#)

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

[System Location:](#) Friday Harbor - A2 - Upper Dish - Right

[Manage your Peer Horizon® system:](#) 10.64.120.166

http://10.64.120.166/ Horizon® - 10.64.120.166

File Edit View Favorites Tools Help

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	19.2 dBm
RSL	-44.3 dBm
SNR	39.61 dB
Eb/No	30.90 dB
Equalizer Stress	35

[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.

More in information:

System Name: Mt. Constitution - Friday Harbor

System Location: Mt. Constitution - A2 - Upper Dish - Right

Manage your Peer Horizon@ system: 10.64.32.102

System Licensed Speed	300 Mbps
System Current Speed	300 Mbps
System Mode	hc40_277_256qam
Software/Hw Inventory	Software/Hw inventory
Unit Serial Number	DW107AHE1002
Network Management Interface port	port2
RLS ShutDown	Off
Telnet Access	On
SNMP Access	Off
SSH Server Status	Ready
IP Address	10.64.120.166
Subnet Mask	255.255.255.0
Gateway	10.64.120.161
Radio Band	fcc11_2_40
Tx Frequency	11505000 KHz
Rx Frequency	11015000 KHz

8:52 AM
12/21/2015

http://10.64.32.103/ Horizon® - 10.64.32.103

File Edit View Favorites Tools Help

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 19.0 dBm
 RSL -42.7 dBm
 SNR 39.52 dB
 Eb/No 30.80 dB
 Equalizer Stress 33

[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	DW108AGM1002
Network Management Interface port	port2
RLS ShutDown	Off
Telnet Access	On
SNMP Access	Off
SSH Server Status	Ready
IP Address	10.64.32.103
Subnet Mask	255.255.255.0
Gateway	10.64.32.1
Radio Band	fcc11_2_40
Tx Frequency	10975000 KHz
Rx Frequency	11465000 KHz

[More information:](#)

System Name: Friday Harbor to Mount Constitution

System Location: Friday Harbor - Lower - B1

Manage your Peer Horizon@ system: 10.64.120.167

DragonWave HORIZON WEB MANAGEM

HOME PERFORMANCE CONFIGURATION DIAGNOSTICS ALARMS TOOLS CONTACTS

Modem	Up
Radio	Up
Wireless Link:	Up
Radio Tx	On
Tx Power	18.9 dBm
RSL	-42.5 dBm
SNR	39.06 dB
Eb/No	30.40 dB
Equalizer Stress	33
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	DW107AGM1002
Network Management Interface port	port2
RLS ShutDown	Off
Telnet Access	On
SNMP Access	Off
SSH Server Status	Ready
IP Address	10.64.120.167
Subnet Mask	255.255.255.0
Gateway	10.64.120.161
Radio Band	fcc11_2_40
Tx Frequency	11465000 KHz
Rx Frequency	10975000 KHz

[More in information:](#)

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

[System Location:](#) Mt. Constitution-Lower-B1

[Manage your Peer Horizon@ system:](#) 10.64.32.103

8:54 AM
12/21/2015

System Licensed Speed	400 Mbps
System Current Speed	400 Mbps
System Mode	hc40_277_256qam
Software/Hw Inventory	Software/Hw inventory
Unit Serial Number	DW106AGM1003
Network Management Interface port	port2
RLS ShutDown	Off
Telnet Access	On
SNMP Access	Off
SSH Server Status	Ready
IP Address	10.64.32.104
Subnet Mask	255.255.255.0
Gateway	10.64.32.1
Radio Band	fcc11_1_40
Tx Frequency	10935000 KHz
Rx Frequency	11425000 KHz

[More information:](#)

System Name: Friday Harbor - Mount Constitution

System Location: Friday Harbor - Lower - B2

Manage your Peer Horizon@ system: 10.64.120.168

The screenshot shows a web browser window with the address bar displaying `http://10.64.120.168/`. The page title is "Horizon® - 10.64.120.168". The browser's menu bar includes File, Edit, View, Favorites, Tools, and Help. The page header features the DragonWave logo and the text "HORIZON WEB MANAGEM". Below the header is a navigation menu with links for HOME, PERFORMANCE, CONFIGURATION, DIAGNOSTICS, ALARMS, TOOLS, and CONTACTS.

The main content area is divided into several sections:

- Modem Status:** Modem (Up), Radio (Up), Wireless Link (Up).
- Radio Tx Status:** Radio Tx (On), Tx Power (19.2 dBm), RSL (-42.3 dBm), SNR (39.94 dB), Eb/No (31.20 dB), Equalizer Stress (31).
- Configuration Options:** [Atpc Status](#) (Off), [Loopback](#) (Off), [AAM](#) (Off), [HAAM](#) (Off), [RLS](#) (Off), [Redundancy](#) (off).
- Alarms:** Alarms: No.
- Refresh:** Refresh every seconds
- Notes:** Notes: 0 turns off the self-refresh.
- System Parameters Table:**

System Licensed Speed	400 Mbps
System Current Speed	400 Mbps
System Mode	hc40_277_256qam
Software/Hw Inventory	Software/Hw inventory
Unit Serial Number	DW105AGM1003
Network Management Interface port	port2
RLS ShutDown	Off
Telnet Access	On
SNMP Access	Off
SSH Server Status	Ready
IP Address	10.64.120.168
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 information:

- System Name:** Mount Constitution - Friday Harbor
- System Location:** Mount Constitution - Lower - B2
- Manage your Peer Horizon® system:** 10.64.32.104

At the bottom of the page, there is a text box containing the URL `http://10.64.120.168/config.htm`. The Windows taskbar at the bottom shows the system time as 8:57 AM on 12/21/2015.

ANTENNA AND TOWER ROUTINE INSPECTION

SITE NAME ___Friday Harbor Main___

SITE LOCATION _Friday Harbor, WA___

SITE CLLI ___FRHRWAAW___

DATE ___01/13/2016___

INSPECTED BY ___Ford - Hogue___

ANTENNA AND TOWER ROUTINE INSPECTION

SITE NAME ___Mt. Constitution South___

SITE LOCATION ___Orcas Island___

SITE CLLI ___MTCSWAQA___

DATE ___01/13/2016___

INSPECTED BY ___Ford - Hogue___