Ocean Networks Canada

Ferry Maintenance Report – Queen of Alberni

Date: Feb 19, 2015

Arrival: This trip was planned around the remaining time Alberni had in dock at Tsawwassen. Thursday Feb. 19 the ship was available until about 1330 in the afternoon at which point it went out on seatrials. A vehicle was taken over to carry the extra gear needed. Passes were obtained at the TS office, and parking was arranged in front of the ship in the unused bus zone.

Reporter/Attending: Ian Beliveau (Servicing/Reporter), Joao Pedro (Servicing)

Reason for Visit

To install the new topside enclosure, including mounting it on the railing and wiring into the QoA system. To remove the radiometers, which are in need of calibration.

Observations

1. The web power bar will not turn on outlet 1 (SK PC) on startup. When turned on manually, the SK PC and relay board turn on with no problem, but the web power bar shuts it off after about a minute. The PC appears to be booting until that point. When the SK power supply is disconnected from its load (instruments, SK PC, relay, pump control) the power bar displays the same behaviour. This problem is likely with the power bar, possibly a setting in it. Moving the SK power to a different outlet is a good measure in addition to investigating power bar settings. This is a newer power bar with slightly different firmware.
2. The devices with web pages were accessed from the PC box in the bosun stores area. This demonstrated the DSL link is good.
3. While making the observation above, wired internet access was available and email was received/sent indicating the data link was available.
4. Time and problems with the power bar it was not possible to test the Thrane & Thrane transceiver or the Met station.

Actions Taken

1. The old plastic mounting plate along with the Campbell Scientific box was removed. The clamps used to mount it were then used for the new box. The new mounting plate was drilled to match the railing spacing and clamps.

2. The new box was mounted on the railing, and the wiring completed. A separate gland fitting was used for the Met station. The cable for the CS logger/radiometers was bagged and left on deck.

Future Actions

1. The Campbell Scientific logger/radiometer cable remains unconnected. That cable will need to be opened and mapped to the wires in the enclosure.
2. The Thrane & Thrane +GPS needs to be tested
3. The Met station needs to be tested.
4. Most components in the top enclosure now have screw terminal connections, with the exception of the Thrane & Thrane satellite transceiver and eventually the CS logger/radiometer. Since no DIN rail space is available a solution such as pluggable screw terminals are recommended. This allows fast installation and re-wiring.
5. Desiccant should be added to the top enclosure.

ADDENDUM/NOTE:

PICTURES