

November 17, 2016

San Juan Island fiber-based transport system inspection results

- Coriant 7100 Backbone
- FW7420 Backbone



CenturyLink®

San Juan Island fiber results

This inspection documents signal strength between the Coriant 7100 optical electronics located at Lopez Island and at La Conner Washington

- Fiber loss was calculated as the difference between the transmit (Tx) level and the receive (Rx) levels.
- These levels were observed on the optical service channels of the 7100 AMP Modules.

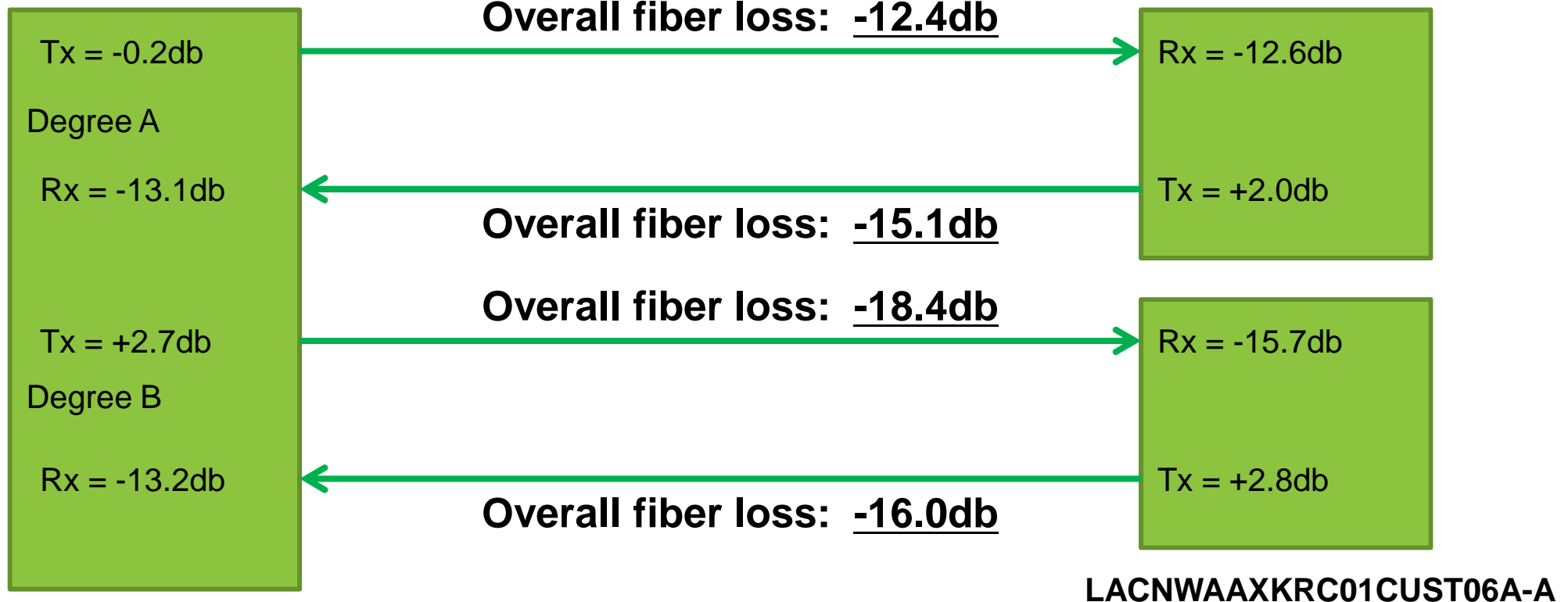
San Juan Island fiber results

La Conner to Lopez Island

The Reconfigurable Optical Add/Drop Multiplexer (ROADM) system supports up to 26db span loss

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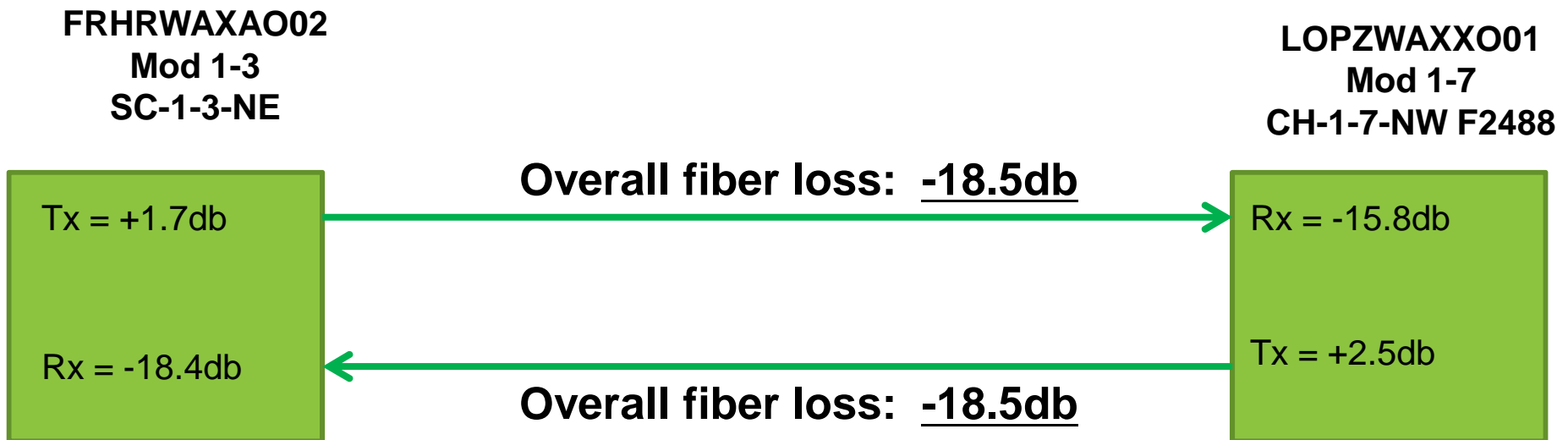
San Juan Island fiber results

This inspection documents signal strength between the Fujitsu FW7420 optical electronics located at Lopez Island and at Friday Harbor Washington

- Fiber loss is calculated as the difference between the Tx level and the Rx levels.
- These levels were observed on the optical service channels of the FW7420.

San Juan Island fiber results

The Friday Harbor to Lopez Island system supports up to 26db span loss



San Juan Island fiber results

A site survey was conducted at the first location where submarine cable appears on land and is accessible. The survey involved visual examination of the fiber optic cable, condition of the vault or pedestal, and changes in the surrounding environment.

At the Pear Point landing site on San Juan Island, inspection revealed that the outer protective sheath of the cable had been abraded, but the cable's integrity and its optical communication paths had not been compromised. A section of cable will be replaced. The permit approvals necessary to complete the work are pending. In the unlikely event of a submarine cable failure, CenturyLink's radio-based transport systems have the capacity to support E911, FAA, and telephony service.