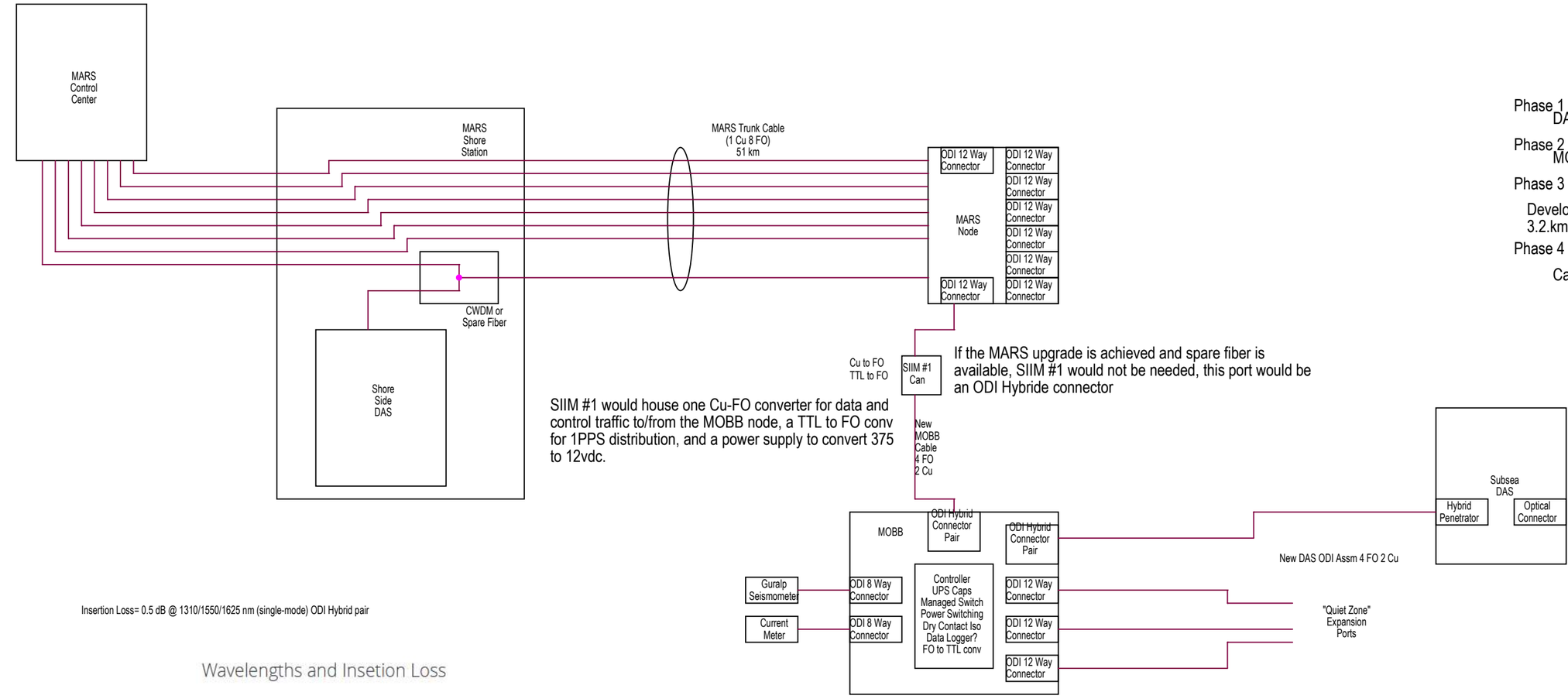


SIIM #1 would house one Cu-FO converter for data and control traffic to/from the MOBB node, a TTL to FO conv for 1PPS distribution, and a power supply to convert 375 to 12vdc.

If the MARS upgrade is achieved and spare fiber is available, SIIM #1 would not be needed, this port would be an ODI Hybride connector

Phase 1
DAS to CWDM on MARS Shore cable

Phase 2
MOBB upgrade to Fiber comms cable and "Quiet Zone"

Phase 3

Development/Deployment of a Subsea DAS
3.2.km shot data bandwidth limited to 100Mb max

Phase 4

Cable lay 70km? west of MOBB

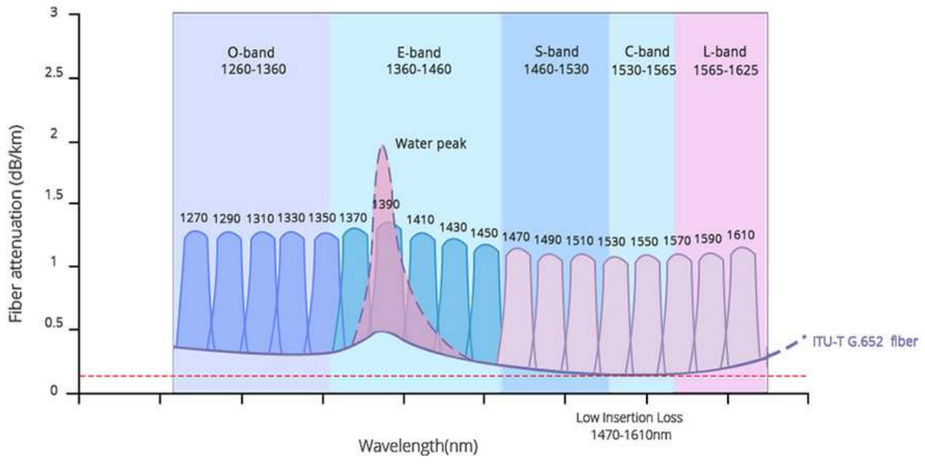
The DAS would connect to MOBB
One Fiber in the MOBB cable would be dedicated to the DAS for meaasurement.
Power for the DAS would come via the switching in the MOBB control housing (SSR power switching/dry contact isolation/current mon) For phase 4, that same fiber could be used for data transport to shore assuming the MARS upgrade happens.

Fiber for phase 4

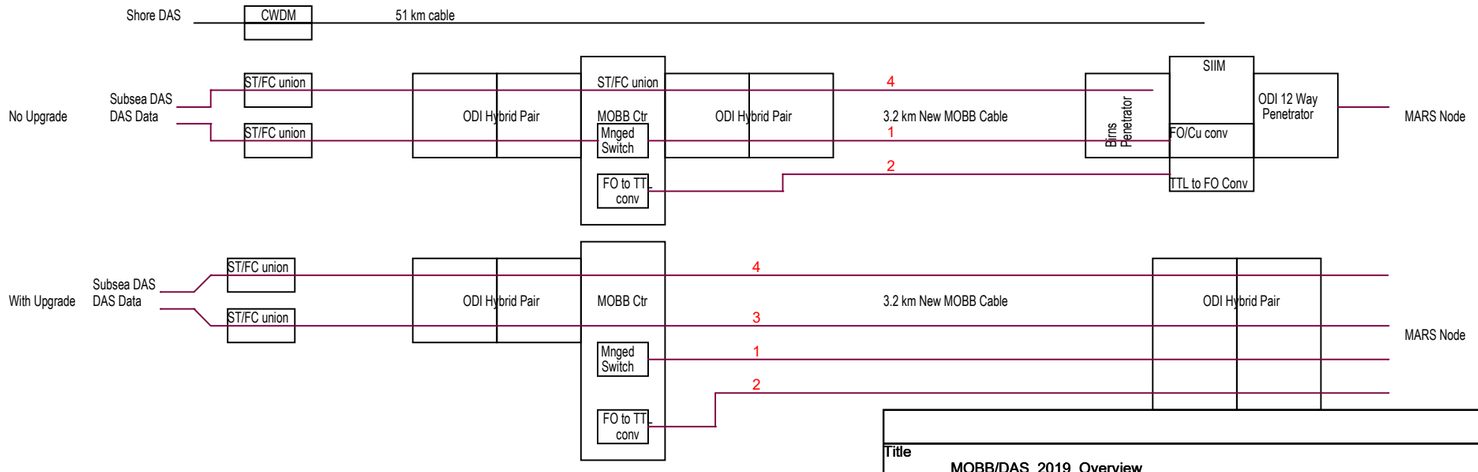
Insertion Loss= 0.5 dB @ 1310/1550/1625 nm (single-mode) ODI Hybrid pair

Wavelengths and Insetion Loss

The ITU-T G.694.2 specifies CWDM uses up to 18 wavelengths from 1270nm to 1610nm with 20nm channel spacing. But For G.652 and G.694.2 optical fiber, 1390nm and 1410nm wavelengths should be avoided due to the higher attenuation about 2dB.



Fiber paths



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