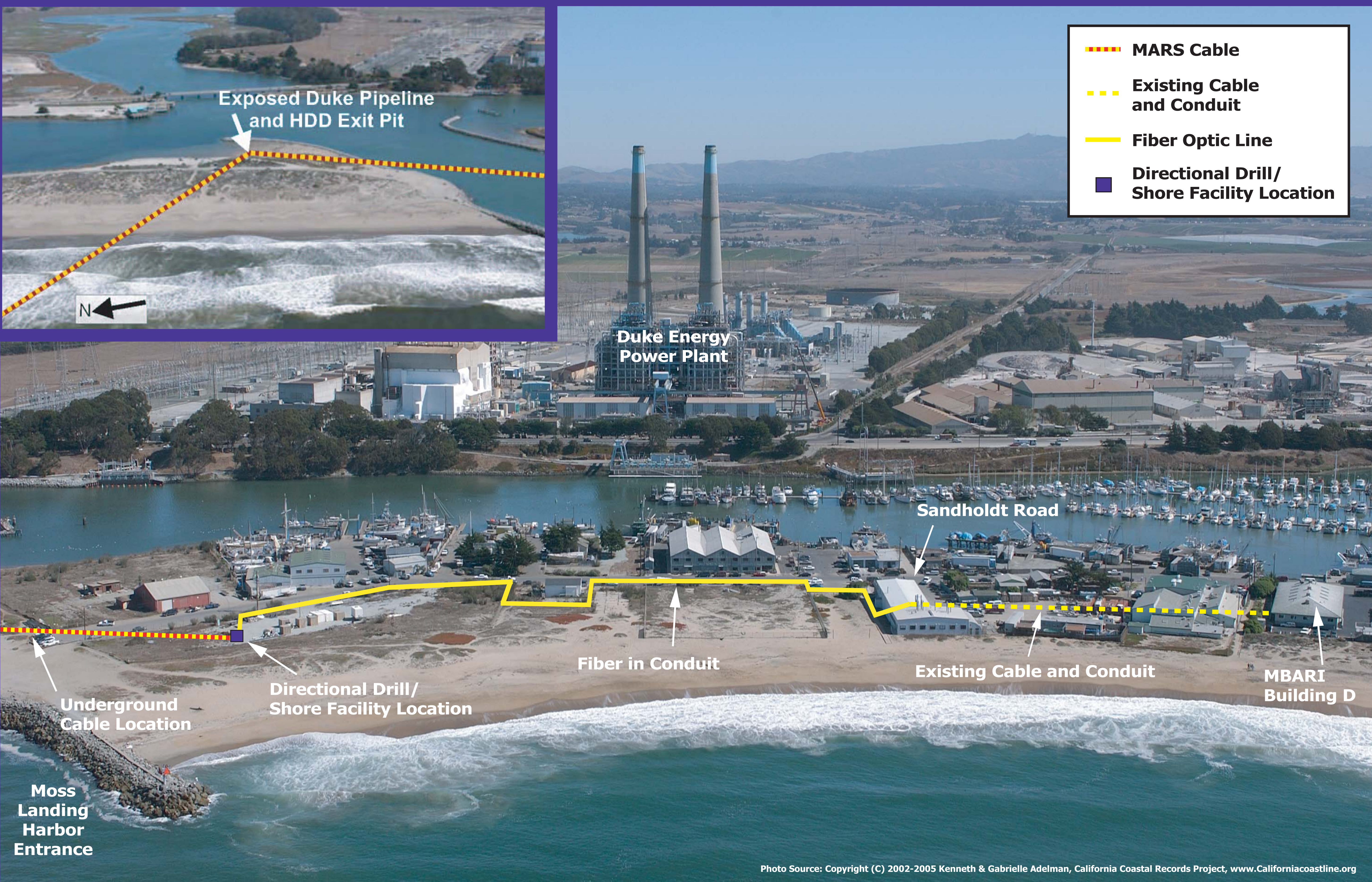


MARS Landing Site: Alternative 1



Alternative Landing 1: Duke Pipeline to MBARI Property

Description

This Alternative is the same as the proposed Project except that the shore landing would occur through an existing fuel oil pipeline owned by Duke Energy in addition to a HDD-installed conduit which would bring the cable to the landing site in Moss Landing. The pipeline was previously used to unload tankers and extends from shore for approximately 502 feet (153 m) in a west-northwest direction to a water depth of roughly 59 feet (18 m). The pipe is 18-24-inch (46-61-cm) carbon steel and has been well maintained by Duke Energy. The cable would run inside the pipeline from the ocean side entrance to a location on Jetty Road.

At the shore landing, the cable would extend through the existing pipeline to a point where the pipeline becomes exposed on the eastern side of the jetty located on Jetty Road at Moss Landing State Beach. An access hatch would be constructed in the pipeline at this location to enable the cable to be pulled ashore from the cable vessel Ile de Ré. From this location the cable would extend south under the entry channel to Moss Landing Harbor in a conduit that would be installed by HDD.

As with the proposed Project, all drilling operations, staging, and equipment storage would occur on a vacant parcel located on the west side of Sandholdt Road at the road's northern terminus. This site is owned by the Applicant and would be used to land the MARS cable and to install shore facilities at the landing location. The Shore Facility would be the same as the proposed Project and consist of a 20-foot (6-m)-long ISO van, or similar structure, placed on a concrete slab located at the north end of Sandholdt Road.

Alternative Landing Area 1 would utilize the same offshore construction techniques identified in the proposed Project including a pre-lay grapnel run to clear any potential obstructions from the cable route, main lay operations to place the cable, and post lay inspection.

The construction schedule for Alternative Landing Area 1 would be similar to the proposed Project. Installation of the cable and node is planned to occur sometime between September 1 and November 15, 2005. The total estimated installation time for cable laying is 10 to 14 days. HDD activities would require about two weeks for completion.

Alternative Landing Area 1 would include the same environmental commitments identified in the proposed Project.

Required Agency Approvals

Implementation of Alternative Landing Area 1 would be subject to the same agency permits and approvals as the proposed Project. Additional information on these requirements is provided in the draft document in Table 2.7-1 in Section 2.7, Permits, Approvals, and Regulatory Requirements.

M B A R I



Project permit applications submitted by the Monterey Bay Aquarium Research Institute.