

FCC Narrative Description

21JUL14

The Coastal and Marine Pipeline Operators (CAMO) are an organization that is extremely proactive in pipeline damage prevention. The goal of this organization is to bridge the gap between landside prevention initiatives for underground utilities and enhance visibility on subsea pipeline asset integrity. Several safety initiatives exist on land and the CAMO group has taken ownership of the seaside damage prevention to raise awareness around subsea infrastructure. The Greater LaFourche Port Commission has partnered with CAMO and PortVision to host an antenna and provide the test area for this initiative. This equipment will deliver an AIS AtoN communication, to provide advanced subsea pipeline awareness, better risk management, new statistics on vessel passage-over-pipeline interaction, and generate forward-looking notification to vessel in pipeline zone. PortVision will be the operator of the equipment and subject matter experts to synthesize data deliver messages to vessels, and increase maritime domain awareness for the Port Fourchon region. Multiple maritime stakeholders have been consulted for this project. The benefit from this solution will assist; pipeline owners, vessel owners, government response and environmental protection organizations.

Period of operation: 250 days from publication notice of the test bed in the USCG Local Notice to Mariner.

Area of Operation. Three geographic zones will be monitored (200' 'charted pipeline' warning zone)

1. Centered on the point Lat. 29.11072, Long. -90.222945 'Pipeline Corridor 1 SouthWest Channel'
2. Centered on the point Lat. 29.157558 Long. -90.230906 'Pipeline Corridor 2 Bayou LaForche North'
3. Centered on the point Lat. 29.096002 Long. -90.222945 'Pipeline Corridor 3 SouthWest Mid Channel'

Concept of Operation. Use AIS to notify users that they may be anchoring over a pipeline.

A. *Notification trigger and message:* Two warning zone scenarios:

1. Vessel navigating at 0 kts for 10 minutes or more within a warning zone: 'PIPELINE BELOW'
2. Vessel AIS Navigation Status changes to "At anchor" (NavStatus=1) within warning zone: 'DO NOT ANCHOR ON PIPELINE'

B. *Notification type:*

Phase 1: via an addressed AIS Safety Related Message (message 12)

Phase 2: Same as Phase 1, but, every 3 minutes, alternating on Ch A & Ch B, for 21 minutes or until acknowledged

Phase 3: Same as Phase 2, but, augmented by either a message 6 [DAC= 367, FI=22v1b, Type=3, Desc=20] Geo-Notice or message 21 [VATON-flag=1].

Phase 3 is tentative, upon the success of Phase 1 & 2. We may also consider the use of the Linked Text msg too; during Phase 3, 8/367/29 and will investigate further during test period. During the initial start-up we will be monitoring when the system is running. At some point, monitoring will be automated with alerts being sent to operations if necessary.