

# ATTACHMENT I

## Revisions to Execution Plan- Phase 2 (Rev 1)

### Section 4.2.1

#### **Cable F2, G2 and A2 Risers at Platform Harmony**

At the Harmony Platform, five risers (2 new I-Tubes, 2 new curved conductors, and one existing J-Tube) will be available for installation of submarine Cables F2, G2 and A2 (or B2). The four new risers are being prepared as part of the Phase 1 work scope and are planned to be ready for Phase 2. During final construction planning the decision will be made as to which riser to use for each submarine cable. During installation, the selected riser may be changed to one of the spare risers if difficulties arise with the use of the selected riser. The proposed installation plan is based on laying each replacement cable with no crossings of in-service or other replacement cables, but, based on field decisions, a replacement cable may need to be laid across another in-service or other replacement cable near Platform Harmony due to the requirement to use an alternative riser. At the Heritage Platform, the existing Cable C1 J-Tube will be reused for installation of submarine Cable G2.

### Section 4.2.2

#### **Cable F2 and A2** (Second paragraph)

The CIV will then lay the replacement submarine cable on the ocean bottom from the platform to the nearshore area in the identified route. The F2 cable, when installed in the Long I-Tube, will include an unsupported catenary from the end of the tube to the touchdown point. Additional cable protection system components such as bend stiffeners or VIV reducers, if required, could be installed at the bottom of the riser. Maintenance of the catenary shape could require the installation of bags containing sand or other types of material at the Cable F2 catenary touchdown. Cables installed in the curved conductor or existing J-tube will be laid directly to the sea floor after exiting the bell mouths. A special protective duct technology product (URADUCT) will be applied to the replacement cable in the areas where an in-service, replacement or out-of-service cable is crossed to ensure the maintenance of an appropriate separation between the cable as well as provide impact and abrasion protection. The route will include the crossing of the POPCO Gas Pipeline in approximately 75 feet of water depth. At the pipeline crossing, concrete mats were installed below the power cables to separate the pipeline from the cables and above the installed cables to hold the cables in place. Prior to installation of the replacement cables, divers will have cleared the area and removed the concrete blocks from above the out-of-service cable. The replacement cables will be laid in the same general area as the retrieved out-of-service cable utilizing the existing separation to the pipeline. As the replacement cables are being installed, divers or an ROV will verify that the cables are in the correct location.

## Section 4.2.3

### **Cable G2** (Third paragraph)

At a crossing of an **in-service, replacement or** out-of-service cable, a special protective duct technology product (URADUCT) will be applied to the replacement cable in the area of the cable crossings to ensure the maintenance of an appropriate separation between the cable as well as provide impact and abrasion protection.