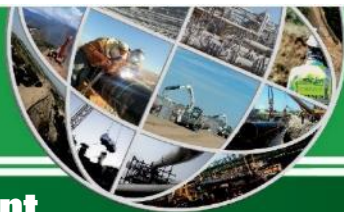


# LESSON LEARNT

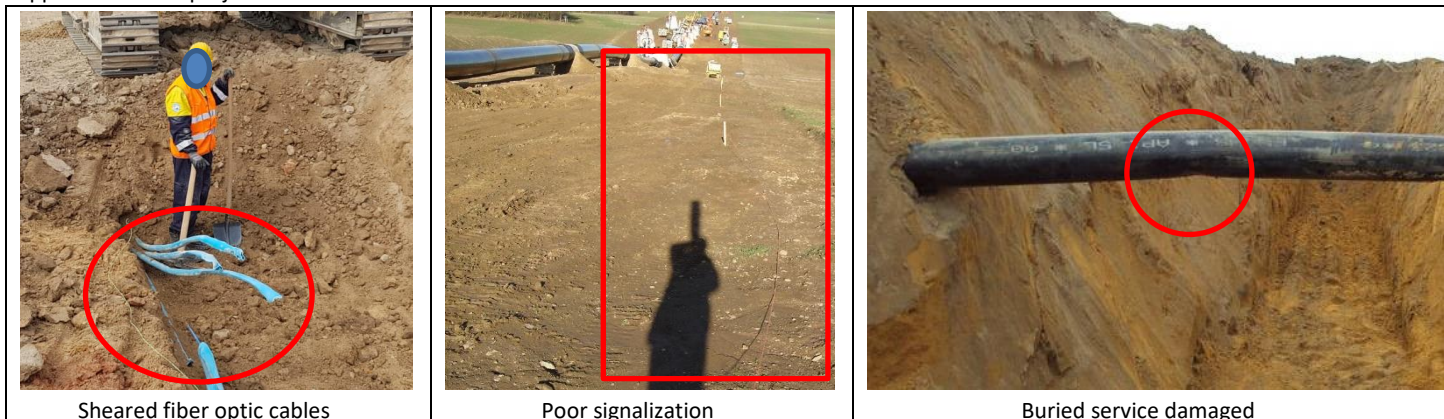


PREPARED BY: Corporate QHSE Dept.

N° 07/2020 Date: JULY 2020

OBJECT BURIED SERVICES

The release of the hazard coming from interfering services is one of the major risk during Pipeline construction projects. Following the Company Risk Assessment procedure underground services risk is ranked high both in probability, given its recurrence, and in the consequence potential severity, when buried services are high voltage power cables or gas pipelines. Taking into account that is actually almost impossible to control the potential severity, all necessary control and prevention measures shall then be in place to avoid recurrence of Near Miss and damages to underground services. Below some examples of Near Misses and asset damage that happened in Sicim projects:



## MAIN CONSEQUENCES

Potential consequence of an underground services shall be always ranked as a major impact, where taking into account the possibility to interfere with high voltage power cables or gas pipeline.

## RECURRING CAUSES

- Missing or inadequate identification of buried services
- Poor carefulness of interfering activities, i.e. excavation works
- No respect / inadequate underground services management Procedure
- Survey not completed
- Poor supervision / communication
- TBT / JSA not effective

## PREVENTIVE AND PROTECTIVE MEASURES

### Procedure:

Each Project must develop and implement a specific procedure for the identification and protection of subservices detailing:

- All sources of information regarding possible interfering services
- Any eventual legal requirement for interfering services management;
- Procedure to identify and protect all types of underground and buried services, detailing owner intervention / authorization.
- Update process of identified the buried services in case new information are available or new services are notified

### Operating methods:

Check on site to confirm the position of surveyed services and the services to be surveyed respecting the following rules:

- Identification of subservices by using reliable instruments (detector - georadar - etc.)
- Digging by hand / vacuum until it identifies the physical buried service;
- Secure and protect the underground services.

### Training:

- Inform employees about potential risks as a result of damage of buried network;
- Training regarding project specific process of identification of buried network.



## RECEPTION BY THE PROJECT

WHICH ACTIONS IDENTIFIED TO BE IMPLEMENTED IN THE PROJECT:

Project Manager:

Signature:

HSE Project Manager:

Signature: