

GENERAL SPECIFICATION

ENVIRONMENT

GS EP ENV 011

Environmental specification for onshore pipeline construction

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General Specification		GS EP ENV 011
Environmental specification for onshore pipeline construction		
Rev.: 03	Effective date: 05/2015	Page: 2 of 20

Contents

1. Scope	3
2. Reference documents	3
3. Terminology and Abbreviations	4
4. Environment management requirements	4
4.1 Environment Management Plan	4
4.2 Contractor Environment Representative	8
4.3 Meetings, visits	8
4.4 Inspections	9
4.5 Catering/Housekeeping/Accommodation	9
4.6 Dealing with local communities	9
4.7 Site refurbishment	9
5. Environment protection requirements	9
5.1 Atmospheric emissions, dust, noise	9
5.2 Minimisation of temporary construction campsites impacts	10
5.3 Land protection and restoration	10
5.4 Soils and waters protection	13
5.5 Polluted soils remediation	14
5.6 Waste management	14
5.7 Fauna, flora protection	17
5.8 Providing equipment for fighting pollution	18
5.9 Respect of socio-cultural traditions	18
6. Environment incentives and penalties	18
6.1 Incentives	18
6.2 Penalties	18
Bibliography	20

General Specification		GS EP ENV 011
Environmental specification for onshore pipeline construction		
Rev.: 03	Effective date: 05/2015	Page: 3 of 20

1. Scope

This general specification concerns the Environment Protection items related to the onshore pipeline construction activity, and describes the requirements of the Company that have to be fulfilled by the construction Contractor.

For each pipeline particular specifications will specify the complementary requirements of the Company as a function of the project.

The Contractor is asked to take all necessary measures in order to protect the environment, an Environment Management Plan will be elaborated for that purpose.

This specification covers the following subjects:

- Environment Management Plan requirements (policies, impacts identification, personal competency, audits and inspection, drills, documentation)
- Waste Management Plan
- Environment Protection concerns: air, noise, soils, surface and ground waters, land erosion prevention, drainage, reinstatement.

Safety aspects related to pipe construction are not covered by the present document.

2. Reference documents

The reference documents listed below form an integral part of this General Specification.

External Documents

Unless otherwise stipulated, the applicable version of these documents, including relevant appendices and supplements, is the latest revision published at the effective date of this document.

Reference	Title
Not applicable	

Total General Specifications

Unless otherwise stipulated, the applicable version of these documents, including relevant appendices and supplements, is the latest revision published in the applicable yearly collection.

Reference	Title
GS EP SAF 228	Liquid drainage
GS EP ENV 421	Landfill design and operation for E&P sites

3. Terminology and Abbreviations

This specification covers onshore pipelines construction, and is addressed to the following associated items:

- The gas or liquid pipeline itself (oil, condensates, etc.)
- Pipeline landfall site if any (coastal area)
- The pipeline RoW
- Associated tracks and access roads, and all other related facilities
- Associated equipment (control and counting stations, block valves, manifolds, pig traps, pig launchers, etc.)
- Construction camps for manpower accommodation.

The two following phases will be considered:

- Pipeline construction period, and
- Commissioning phase (hydrotesting, etc.).

4. Environment management requirements

4.1 Environment Management Plan

Contractor shall submit an Environment Management Plan for Company approval.

Company reserves the right to audit the implementation of the approved EMP during the execution of the services and to request drills and exercises to be carried out with or without notice in order to ascertain that Contractor's procedures are satisfactory and well understood.

In addition Company reserves the right to perform Environment Audits of the site at any time. This Plan shall cover in detail a description of the subjects as follows.

4.1.1 Environment Policies

Contractor shall adhere to local regulation and international standards and define its objectives, management organisation, and responsibilities.

4.1.2 Identification of Major Impacts to the Environment

The major impacts of the construction works to the Environment have to be clearly identified: the conclusions of the Environment Impact Assessment study can be used for that purpose.

The means by which these impacts will be minimised have to be described.

4.1.3 Waste Management Plan

Construction works are likely to generate several kinds of waste: inert, domestic and hazardous waste, that have to be handled according to Company standards.

A Waste Management Plan (WMP) has to be developed and implemented; it shall include the following aspects:

- Waste classification (categories, quantities expected, etc.)
- Measures taken to minimise waste quantities
- Measures taken to reuse and recycle waste
- Waste to be eliminated: treatment routes (incineration, disposal into landfill, etc.)
- Procedures for inert material stockpiling
- Procedures for incineration
- Procedures for landfill operation and decommissioning.

4.1.4 Meetings, inspection

Contractor shall fully participate in any HSE Meetings as may be requested by Company.

If requested by Company, Contractor shall conduct an initial inspection of all areas where Contractor's personnel are to carry out work prior to the commencement of work and at such intervals as Company may require.

Following each inspection, Contractor shall submit to Company Contract Representative an inspection report highlighting any areas of concern noted and the corrective actions taken or to be taken by Contractor.

Alternatively the Company has the right to conduct an initial inspection at any time and shall issue a report to the Contractor highlighting areas of concern and the corrective actions to be taken.

4.1.5 Competency of personnel

All persons who hold Environment critical positions shall be fully competent.

4.1.6 Incident/anomaly reporting and investigation

Where work is required on a Company Site for the provision of Services, the following specific conditions shall apply.

Contractor shall ensure that all anomalies and all incidents identified or occurring during the performance of Services are reported in writing on Contractor's report forms within 12 hours to a Company Supervisor.

In the case of any accident, Contractor shall participate, as requested by Company, in the investigating team established by Company, if any.

Contractor shall provide, within seven days of an accident, Company Contract Representative with copies of all reports related thereof including, but not limited to: medical reports, Contractor investigation reports, statutory and regulatory reports, and claims and reports made to Contractor's insurer(s).

4.1.7 Documentation - Reporting

Emergency response procedures covering communications and actions in case of pollution incident will be issued.

Contractor shall provide Monthly Environmental Inspection Report that summarises the works performed and the findings of last Audit. The structure will be the following:

- Summary of recent works
- Programme of forthcoming works (over next month)
- Last Audit: summary of Corrective Actions Undertaken and Status
- Audit Findings:
 - Atmospheric emissions, noise
 - Protection of water courses and ground waters
 - Waste Management
 - Land, soils (erosion, drainage, re-vegetation, reforestation, etc.)
 - Reinstatement
 - General
 - Documentation.

4.1.8 Emergency drills and exercises

Contractor should ensure that all his sites, vessels undertake suitable emergency drills and exercises. In addition Contractor shall ensure that suitable emergency drills and exercises take place as well as the testing and inspection of emergency equipment such as fire-fighting pumps, life rafts, rescue craft, etc.

4.1.9 Inspections, reviews and audits

Contractor shall implement periodical self audits (see EMP). The Environment Items to be covered by self audits are presented in the checklist below (non exhaustive):

4.1.9.1 Dust monitoring

- Unsurface roads dampened down and kept clean
- Sheeting of spoil lorries
- Speed limit enforced on site
- Material stockpiles stored
- Dusty materials dampened down during dry water