



**DECOMMISSIONING OF TRANSNET PIPELINES DURBAN –  
JOHANNESBURG PIPELINES (DJP)  
DEFINITIONS DOCUMENT**

VGI Ref Nr: 1297 Report 003



Date: 18 September 2018

# TRANSNET PIPELINES

## DECOMMISSIONING OF TRANSNET PIPELINES DURBAN – JOHANNESBURG PIPELINES (DJP)

# DEFINITIONS DOCUMENT

REV 02

VGI					TPL			
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REVISION CONTROL								
NUMBER	DATE	DESCRIPTION						
02	12/12/2019	Issued for Detail Engineering						

**VGI CONSULTING (PTY) LTD**  
MULTIDISCIPLINARY ENGINEERS & PROJECT MANAGERS

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## 1. INTRODUCTION

VGI have been appointed by TPL, under contract number PYP/WI/6/21/1787, to provide engineering, environmental and construction management services for the decommissioning of the Transnet Pipelines Durban-Johannesburg Pipeline (DJP) and its associated infrastructure.

The project entails the engineering associated with the decommissioning of the existing DJP pipeline and includes the displacement of product or inhibited water currently stored within the pipeline, cleaning of the pipeline, abandonment of the pipeline and demolition of the related appurtenance and aboveground facilities.

After the completion of engineering, the project includes the environmental and construction management activities required for the execution of the completed designs.

All works are to be completed in accordance with legislative and statutory requirements, applicable design codes, standards and international best practice.

## 2. PURPOSE OF THE REPORT

This report provides the agreed definitions and terminology to be used during the execution of the works. Definitions are provided for the critical engineering and execution activities, processes and milestone forming part of the works.

The definitions aim to provide clarity and alignment between all project stakeholders to avoid misrepresentation and possible confusion resulting from the incorrect use of the defined terms.

The definitions formulated herein are based on a review of existing literature relating to relevant international and national codes, standards and best practice relating to the abandonment of petroleum product pipelines. Where applicable these definitions have been amended to consider project specific requirements. A detailed list of references is included at the back of this report for clarity.

## 3. LIST OF DEFINED TERMS

The following terms are defined as part of this document:

- PIPELINE
- ASSOCIATED APPURTENANCE
- OUT-OF-SERVICE
- PRODUCT
- INHIBITED WATER
- RESIDUE
- AVTUR
- DEACTIVATION



- DECOMMISSIONING
- DISPLACEMENT
- EMPTY
- CLEANING
- CLEAN
- CLEANLINESS
- CONSTRUCTION
- MODIFICATION
- OPERATIONS
- PIGGING
- ABANDONMENT
- RECLAMATION
- DECONTAMINATION
- REHABILITATION
- DEMOLITION
- DISPOSAL
- EXPANSION

## 4. GENERAL DEFINITIONS

The definitions detailed in this section are considered general definitions and are presented for clarification of applicable infrastructure, equipment and products as well as the state thereof which form part of the Project. The definitions do not define specific processes or activities that will be completed.

### 4.1 PIPELINE

The term **PIPELINE** relates to:

- a) Piping or a system of piping designated for the transportation and distribution of any fluid from an installation that is onshore or offshore, starting from and including the last isolation device located within the confines of the installation, including all auxiliary equipment designed specifically for that pipeline. (PER; [1])
- b) All part of physical facilities through which liquids moves in transportation, including pipe, valves, fittings, flanges (including bolting and gaskets), regulators, pressure vessels, pulsation dampers, relieve valves, appurtenances attached to the pipe, pump units, metering facilities, pressure-regulating stations, and fabricated assemblies. (ASME; [2])

**PIPELINE** means the piping or system of piping designated as the DJP and its associated feeder lines, including all auxiliary equipment designed specifically for that **PIPELINE**. A schematic of the DJP is included herewith in Annexure B.1. The **PIPELINE** includes all piping within the pump stations as identified on the schematic in Annexure B.1 including all piping forming part of or for the transportation of fluid towards, away and between storage tanks as well as other operational and maintenance equipment such as launchers and receivers.

## 4.2 FEEDER LINE

*FEEDER LINE* refers to a section of piping, either above or belowground, for the purpose of distributing product between the DJP facilities and 3<sup>rd</sup> party facilities.

## 4.3 PUMP STATIONS

*PUMP STATIONS* refer to a facility installed for the purpose of pressuring product inside the pipeline to facilitate flow through the pipeline. Pump stations are located at various locations along the pipeline.

## 4.4 ASSOCIATED APPURTENANCE

*ASSOCIATED APPURTENANCE* includes all apparatus associated with a pipeline system, both above and below the ground surface, including but not limited to control systems, communication towers, pump stations, valve assemblies, signage and markers, cathodic protection, pig launchers/receivers, vessels, tanks and sumps.

## 4.5 STOPPING OF OPERATIONS

*STOPPING OF OPERATIONS* refers the event where product flow inside the pipeline is ceased without a planned date for the reintroduction of flow in the following 30-day period.

## 4.6 OUT-OF-SERVICE

*OUT-OF-SERVICE* refers to a pipeline that is still connected at either one or both ends but is not flowing. An *OUT-OF-SERVICE* pipeline may or may not be filled with product. The pipeline is deemed to be *OUT-OF-SERVICE* when the pipeline has not had product flow for 30 consecutive days.

## 4.7 PRODUCT

*PRODUCT* includes any petroleum product as well as gas.

## 4.8 INHIBITED WATER

*INHIBITED WATER* is water contained within sections of the pipeline and has been mixed with a chemical compound that decreases the corrosion rate of the pipeline material.

## 4.9 MOTHBALLED

*MOTHBALLED* refers to a section of the pipeline for which product have been displaced and filled with inhibited water.

#### 4.10 RESIDUE

*RESIDUE* includes any remaining substance and build-up of product or its components that remain within an unfilled pipeline. *RESIDUE* can be in solid, liquid or gaseous state/phase.

#### 4.11 AVTUR

*AVTUR* means Aviation Turbine Fuel and includes Jet or Jet A1. *AVTUR* is considered a product.

### 5. DEFINITION OF A PROCESS

The definitions detailed in this section are presented for clarification of the processes associated with the project. The processes include possible sub-processes and/or activities. Definitions are also included for approval events which determine the start and/or end of a process.

A schematic representation of the processes forming part of the works and defined herewith is included in Annexure A.1 for clarity.

#### 5.1 DEACTIVATION

*DEACTIVATION* is a series of activities to prepare the pipeline for possible decommissioning or change of service. Upon completion of the *DEACTIVATION* process, the pipeline can possibly be recommissioned. Integral Pipeline systems and components, such as cathodic protection and safety installations remain in place during deactivation while possible modifications are performed to allow for completion of the deactivation process. The Project understands deactivation to include all processes and/or activities relating to displacement of existing fluid, including possible petroleum products and inhibited water, closing of the pipeline, safe-making and cleaning.

#### 5.2 DECOMMISSIONING

The term **DECOMMISSIONING** relates to:

- take out of active service permanently or dismantle partly or wholly, or closure of a facility to the extent that it cannot be readily recommissioned (NEMA, [4]);
- the action undertaken to prepare the pipeline and peripheral facilities for pending suspension or abandonment. (AS, [5])
- one of the steps of pipeline abandonment, generally involving the physical removal of all above-ground appurtenances. (PASC, [6])



International regulations and guidelines present ambiguity when defining the term **DECOMMISSIONING**. Definitions presented by [5] and [6] are in direct contradiction with another. The definition presented by [4] suggests that after decommissioning is completed a facility cannot readily be recommissioned.

***DECOMMISSIONING** is a process which upon completion, the pipeline cannot be recommissioned. The project understands **DECOMMISSIONING** to include activities relating to the abandonment of the pipeline, dismantling, disposal or demolition of associated facilities and rehabilitation of affected areas. Decommissioning accordingly commences upon completion of the deactivation phase.*

### 5.3 DISPLACEMENT

***DISPLACEMENT** is a set of activities completed to remove product from an out-of-service pipeline. Activities include possible modification to pipeline components to facilitate removal of product, construction of temporary supporting infrastructure, draining of the pipeline and pigging activities. **DISPLACEMENT** is complete when the pipeline is declared empty.*

### 5.4 EMPTY

***EMPTY** is the approval event at the end of the displacement process and relates to the state of the pipeline. The pipeline needs to be accepted as **EMPTY** for the cleaning process to commence. The pipeline is deemed **EMPTY** when the last pig forming part of the displacement train is received at the receiver of the section being emptied. Product residue and displacement fluid (eg. Nitrogen or air) will be found in the pipeline when it is **EMPTY**.*

Specific detail relating to the to the anticipated volume of product received at the **EMPTY** event is detailed in Report 1297/029.

### 5.5 CLEANING

***CLEANING** is a set of activities completed to remove any remaining residue from an empty pipeline. **CLEANING** is understood to mean the same as safe making and/or making safe. Activities include possible modification to pipeline components to facilitate cleaning, construction of temporary supporting infrastructure, pigging and purging activities. **CLEANING** commences when the pipeline is declared empty. **CLEANING** is complete when the pipeline is declared clean.*

### 5.6 CLEAN

***CLEAN** is the approval event at the end of the cleaning process. The pipeline is deemed clean when residue levels within the pipeline are proven to be below an acceptable limit. Acceptable limits are defined as cleanliness.*

#### 5.6.1 CLEANLINESS

CLEANLINESS is a predetermined acceptable level for residue remaining within the pipeline following the cleaning process. As a minimum the remaining residue will be at a level that will not cause harm to the environment or personnel operating the pipeline when consideration is given to the possible future state of the pipeline. Considering the possible future states of the pipeline various levels of cleanliness need to be defined. This includes:

- Acceptable levels for re-using the pipeline for hydrocarbon product transfer.
- Acceptable levels for uplifting the pipeline.
- Acceptable levels for abandoning the pipeline in place.
- Acceptable levels for alternative pipeline use.

Specific detail relating to the specification and acceptance criteria for **CLEANLINESS** shall be developed during basic engineering.

## 6. ACTIVITY DEFINITIONS

The definitions detailed in this section are presented for clarification of the activities associated with the project.

A schematic representation of the activities forming part of the works and defined herewith is included in Annexure A.1 for clarity.

### 6.1 CONSTRUCTION

The term **CONSTRUCTION** relates to any activity completed in connection with:

- the erection, alteration, renovation, repair, demolition or dismantling of or addition to a building or any similar structure. (CONST. REG., [7])
- the erection, maintenance, demolition or dismantling of any bridge, dam canal, road, railway, runway, sewer or water reticulation system; or the moving of earth, cleaning of land, the making of excavation piling, or any similar civil engineering structure or type of work. (CONST. REG., [7])

In terms of definition 6.1 a) above, **STRUCTURE** refers to:

- any building, steel or reinforced concrete structure (not being a building), railway line or siding, bridge, waterworks, reservoir, pipe or pipeline, cable, sewer, sewage works, fixed vessels, road, drainage works, earthworks, dam, wall, mast, tower, tower crane, bulk mixing plant, pylon, surface and underground tank, earth retaining structure or any structure designed to preserve or alter any natural feature, and any other similar structure. (CONST. REG., [7])

In terms of definition 6.1 a) above, **BUILDING** refers to:

- Any structure, whether of a temporary or permanent nature, and irrespective of the materials used in the erection thereof, erected or used in connection with:
  - the accommodation or convenience of human beings and animals (BUILDING REG. [8]);

- the manufacture, processing, storage, display or sale of goods (BUILDING REG. [8]);
- the rendering of service (BUILDING REG. [8]);
- a wall, reservoir or bridge or any structure connected therewith. (BUILDING REG. [8])
- a fuel pump or tank used in connection therewith. (BUILDING REG. [8])
- any part of a building as defined in (d), (e) or (f). (BUILDING REG. [8])

In terms of definition 6.1 d) above, **TEMPORARY** refers to:

- any building that is so declared by the owner and that is being used or is to be used for a specified purpose for a specified limited period of time, but does not include a builder's shed. (BUILDING REG. [8])

The term **CONSTRUCTION** excludes:

- any modification, alteration or expansion of an existing building or structure, including associated earthworks as well as the redevelopment of a previously existing building or structure in the same location, with the same capacity and footprint. (NEMA, [4])

In terms of definition 6.1 i) above, **FOOTPRINT** refers to:

- Any evidence of physical alteration because of the undertaking of an activity.

**CONSTRUCTION** means the erection, alteration, renovation, maintenance, repair, demolition or dismantling of any **STRUCTURE** or part of any structure. Such a structure can be permanent or **TEMPORARY** in nature.

Considering the above any **CONSTRUCTION** activity will require the following notification and/or approvals:

- Application for a Construction Work Permit or Notification of Construction work, as contemplated in regulation 3 and/or regulation 4 of the South African Construction Regulations GNR.84 of 7 February 2014.
- Notice of intention to commence erection of a building and/or application to erect a temporary building as contemplated in regulation A22 and/or A23 of SANS 10400-A:2016.
- Applications for Environmental Authorization dependent on the extent of the construction activity when considered against the definitions of Listed Activities as detailed in the National Environmental Management Act. Activities specifically relate to construction outside the existing development footprint and within sensitive areas and water courses. Where possible the extent of activities will be engineered to fall within acceptable limits detailed in listing notice 3 and within general authorisation guidelines.

## 6.2 MODIFICATION

The term **MODIFICATION** relates to any activity completed in connection with:

- Any change to the original design conditions of pressure equipment, including re-rating, or the addition and/or removal of elements that could affect integrity of the pressure equipment. Modify has the corresponding meaning (PER, [1]).

**MODIFICATION** means the alteration, addition and removal of any component of the pipeline. Such a **MODIFICATION** can be permanent or temporary in nature. **MODIFICATION** may result in re-rating of the pipeline; changes in the pipelines functionality, integrity or operation. **MODIFICATIONS** are defined as being required during deactivation.

Considering the above any **MODIFICATION** activity will require the following notification and/or approvals:

- Application for a Construction Work Permit or Notification of Construction work, as contemplated in regulation 3 and/or regulation 4 of the South African Construction Regulations GNR.84 of 7 February 2014.
- Notice of Issue of Certification and Inspection and Testing of any modifications in accordance with the requirements of the South African Pressure Equipment Regulations R. 734 of 15 July 2009 will be required on re-pressurisation of any pressure equipment that have undergone modification.
- Applications for Environmental Authorization dependent on the extent of the construction activity when considered against the definitions of Listed Activities as detailed in the National Environmental Management Act. Activities specifically relate to modifications of the pipeline and appurtenance within sensitive areas and water courses. Where possible the extent of activities will be engineered to fall within acceptable limits detailed in listing notice 3 and within general authorisation guidelines.

### 6.3 OPERATIONS

**OPERATIONS** are all activities taken by operating personnel to complete the deactivation. **OPERATIONS** include, provision of the displacing medium, pigging, control of Product and displacing fluid, control of waste product and venting.

Considering the above any **OPERATIONS** activity will require the following notification and/or approvals:

- It is accepted that **OPERATIONS** activities are completed in accordance with existing operating and maintenance procedures and approvals. No additional approvals are required where operations are conducted within the parameters and extents of existing operating and maintenance procedures.

### 6.4 PIGGING

**PIGGING** is the term for the activity of driving any device, which is inserted into the pipeline and which travels freely through the interior of the pipeline, by fluid flow, for the purpose of inspecting, displacing product, cleaning or drying the pipeline.

Considering the above any **PIGGING** activity will require the following notification and/or approvals:

- It is accepted that **PIGGING** activities are completed in accordance with existing operating and maintenance procedures and approvals. No additional approvals are required where **PIGGING** is conducted within the parameters and extents of existing operating and maintenance procedures.

## 6.5 ABANDONMENT

**ABANDONMENT** is the activities completed to permanently remove a pipeline from service. A section of pipeline can be abandoned in place or removed. In the former case, it is assumed that cathodic protection of the pipeline is discontinued and that no other measures are taken to maintain the structural integrity of the abandoned pipeline (other than the potential use of solid fill material at roadway and railway crossing sites or other locations sensitive to ground subsidence). **ABANDONMENT** includes activities relating to the prevention of future erosion along the pipeline and the prevention of water conduit effects within the pipeline when abandoned in place.

Considering the above any **ABANDONMENT** activity will require the following notification and/or approvals:

- Application for a Construction Work Permit or Notification of Construction work, as contemplated in regulation 3 and/or regulation 4 of the South African Construction Regulations GNR.84 of 7 February 2014.
- Notice of intention to commence demolition of a building as contemplated in regulation A22 of SANS 10400-A:2016.
- Applications for Environmental Authorization dependent on the extent of the abandonment activity when considered against the definitions of Listed Activities as detailed in the National Environmental Management Act.
- Applications for general authorisation or licence as detailed in National Water Act.

## 6.6 RECLAMATION

**RECLAMATION** includes activities relating to:

- the removal of equipment or structures or appurtenances.
- the conducting of investigations to determine the presence of substances and the removal thereof.
- the decontamination of buildings or other structures or other appurtenances, or land or water.

Considering the above any **RECLAMATION** activity will require the following notification and/or approvals:

- Application for a Construction Work Permit or Notification of Construction work, as contemplated in regulation 3 and/or regulation 4 of the South African Construction Regulations GNR.84 of 7 February 2014.
- Applications for Environmental Authorization dependent on the extent of the reclamation activity when considered against the definitions of Listed Activities as detailed in the National Environmental Management Act.

## 6.7 DECONTAMINATION

**DECONTAMINATION** means removal or neutralization of chemical substances or dangerous goods with chemical substances and hazardous material from a facility or site to prevent, minimize, or mitigate any current or future adverse environmental effects. **DECONTAMINATION** is complete when the level of detectable chemicals or hazards are below a predefined accepted level. **DECONTAMINATION** is understood to mean the same as **REMEDIATION**.

Specific detail relating to the specification and acceptance criteria for **DECONTAMINATION** shall be developed during detailed engineering.

Considering the above any **DECONTAMINATION** activity will require the following notification and/or approvals:

- Application for a Construction Work Permit or Notification of Construction work, as contemplated in regulation 3 and/or regulation 4 of the South African Construction Regulations GNR.84 of 7 February 2014.
- Applications for Environmental Authorization dependent on the extent of the abandonment activity when considered against the definitions of Listed Activities as detailed in the National Environmental Management Act. Specific reference is included to the requirements of Part 8 of the National Environmental Management: Waste Act [9].

#### 6.7.1 SOIL CONTAMINATION

**SOIL CONTAMINATION** means the presence of biological, chemical, physical or radiological substance present in the belowground soil of a site at concentrations which can cause adverse effects on living organisms [10].

Concentration levels above which the soil is deemed contaminated is listed in the National Norms and Standards for Remediation of Contaminated Land and Soil.

Guidelines for the extent and testing of soil to identify possible contamination will be developed during basic engineering.

#### 6.7.2 EQUIPMENT CONTAMINATION

**EQUIPMENT CONTAMINATION** means the presence of any product **RESIDUE** at concentrations above the predetermined level **CLEANLINESS** on the above or below ground **PIPELINE** and its **ASSOCIATED APPURTENANCE**.

### 6.8 REHABILITATION

**REHABILITATION** means making the land useful again after a disturbance. It involves the recovery of ecosystem functions and processes in a degraded habitat. Rehabilitation does not necessarily re-establish the pre-disturbance condition but does involve establishing geological and hydrologically stable landscapes that support the natural ecosystem mosaic. **REHABILITATION** is understood to mean the same as **REINSTATEMENT**.

Considering the above any **REHABILITATION** activity will require the following notification and/or approvals:

- Application for a Construction Work Permit or Notification of Construction work, as contemplated in regulation 3 and/or regulation 4 of the South African Construction Regulations GNR.84 of 7 February 2014.
- Applications for Environmental Authorization dependent on the extent of the abandonment activity when considered against the definitions of Listed Activities as detailed in the National Environmental Management Act.



## 6.9 DEMOLITION

**DEMOLITION** means a method to dismantle, wreck, break, pull down or knock down a structure or part thereof.

Considering the above any **DEMOLITION** activity will require the following notification and/or approvals:

- Application for a Construction Work Permit or Notification of Construction work, as contemplated in regulation 3 and/or regulation 4 of the South African Construction Regulations GNR.84 of 7 February 2014.
- Notice of intention to commence erection of a building and/or application to erect a temporary building as contemplated in regulation A22 and/or A23 of SANS 10400-A:2016.
- Applications for Environmental Authorization dependent on the extent of the construction activity when considered against the definitions of Listed Activities as detailed in the National Environmental Management Act.

## 6.10 DISPOSAL

**DISPOSAL** means the burial, deposit, discharge, abandoning, dumping, placing or release of any waste into or onto any land. (NEMWA, [9])

Considering the above any **DISPOSAL** activity will require the following notification and/or approvals:

- Applications for Environmental Authorization dependent on the extent of the construction activity when considered against the definitions of Listed Activities as detailed in the National Environmental Management Act.

## 6.11 EXPANSION

**EXPANSION** means the modification, extension, alteration or upgrading of a facility, structure or infrastructure at which an activity takes place in such a manner that the capacity of the facility or the footprint of the activity is increased. (NEMA, [4])

Considering the above any **EXPANSION** activity will require the following notification and/or approvals:

- Application for a Construction Work Permit or Notification of Construction work, as contemplated in regulation 3 and/or regulation 4 of the South African Construction Regulations GNR.84 of 7 February 2014.
- Notice of intention to commence erection of a building and/or application to erect a temporary building as contemplated in regulation A22 and/or A23 of SANS 10400-A:2016.
- Applications for Environmental Authorization dependent on the extent of the construction activity when considered against the definitions of Listed Activities as detailed in the National Environmental Management Act.

## REFERENCE LIST

- [1] Pressure Equipment Regulations of South Africa, R. 734 of 15 July 2009
- [2] ASME B31.4-2016 Pipeline Transportation Systems for Liquid Hydrocarbons and Other Liquids.
- [3] *Removed.*
- [4] National Environmental Management Act, 1998 (Act 107 of 1998)
- [5] Australian Standard: AS 2885.3-2012 : Pipelines – Gas and liquid Petroleum – Operation and maintenance.
- [6] Pipeline Abandonment - A Discussion Paper on Technical and Environmental Issues. November 1996, PASC.
- [7] Construction Regulation of South Africa, GNR.84 of 7 February 2014
- [8] SANS 10400 – A:2016 - The Application of the National Building Regulations Part A: General principles and requirements.
- [9] National Environmental Management: Waste Act, 2008 (Act 107 of 2008)
- [10] National Norms and Standards for the Remediation of Contaminated Land and Soil Quality. Government General Notice 35160 (Notice 233 of 212).



## **ANNEXURE A.1 DEFINITIONS SCHEMATIC**

Process Level	DISPOSAL													
	Deactivation						Decommission							
Activity Level	Displacement			Cleaning			Empty			Clean				
	Construction	Modification	Operation	Construction	Modification	Operation	Construction	Modification	Operation	Abandonment	Rehabilitation	Reclamation	Decontamination	Demolition
Construction Regulation	✓	✓		✓	✓		✓			✓	✓			✓
Building Regulation	✓			✓						✓	✓			✓
Pressure Equipment Regulation		✓			✓									
Environmental	Note 1		Note 1	Note 1		Note 1	Note 1		Note 1	✓	✓		✓	✓

Note

1. Applications for Environmental Authorization dependent on the extent of the activity when considered against the definitions of Listed Activities as detailed in the National Environmental Management Act



## **ANNEXURE B.1 DJP SCHEMATIC**



- PIPELINES TO BE DECOMMISSIONED : 12"
- PIPELINES TO BE DECOMMISSIONED : 8"
- PIPELINES TO REMAIN IN OPERATION
- OTHER PRODUCTS' PIPELINES
- STATIONS AND DEPOTS