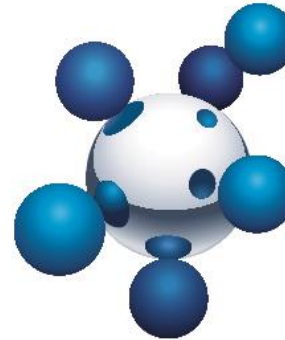


SASOLBURG OPERATIONS

Sasolburg Operations
Pipeline management



sasol

Introduction



In 2017 Sasolburg Operations embarked on a Pipeline Integrity Program (PIP) with specific focus on identification of all lines as well as confirming their integrity. This project include the removal of redundant lines from pipe racks that have been left there, some for many years.

The main purpose of this project is to prevent FER incidents.

Location of all pipelines



LIST OF CULVERTS OUTSIDE PC AREAS

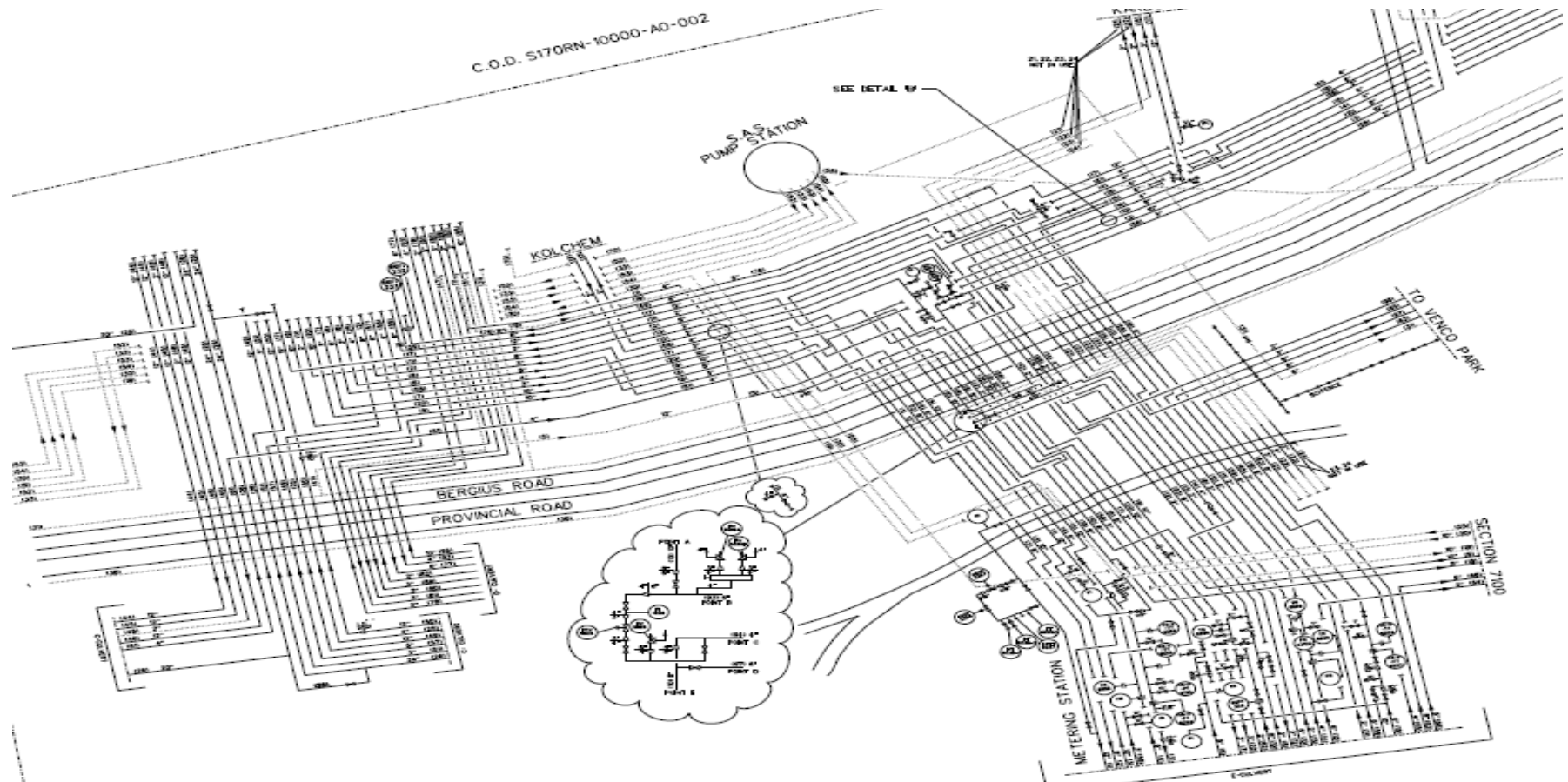
1	Culverts B-7 & B-9 north side of block 13 inside Solvents area.
2	Culverts B-5, B-10 and one with no number inside road B blocks 109, 110, belongs to Sections 4400, 4300, 7100
3	Culvert 16-1 inside Section 7100 plant area.
4	Culverts 17-1 & 17-2 inside Section 7100 plant area.
5	Culverts 19-1 & 19-2 inside Section 7100 plant area.
6	Culvert 20-1 inside Section 7100 plant area.
7	Culverts 21-1 & 21-2 inside Section 7100 plant area.
8	Culverts 9-1, 9-2, 9-4, 9-5, 9-6, 9-7 inside road 9 blocks 83, 85, 87, 93. Water & Waste area
9	Culverts L-2, L-3, L-5, L-6, L-7 inside Section 4300 plant area.
10	Culverts K-4, K-5, H-9, 3-10, 3-17 belongs to the Mine .
11	Culvert 13-1 inside Section 4000 plant area.
12	Culverts 26-1 & 26-2 inside Section 4600 plant area.
13	Culverts F-1 & F-3 inside Section 2200 plant area.
14	Culverts K-1, K-2 & K-3 inside Section 5700 Ash plant area.
N-4	Culverts N-2, N-3, N-4 Landlord Services area

Pipeline identification



Road B Culverts					
BOX 1030					
Road B blocks 81 & 155					
Product					Line size
1 Oxygen Vanderbijlpark					18"
2 Hydrogen to Yskor					6"
3 HP Nitrogen from Vanderbijlpark					16"
4 Water to Steam station 2					16"
5 Filtered water					14"
6 Ethylene - Hip station					12"
7 Waste water ex SS-2					16"
8 Oxygen to VCM					4"
9 No3 Ash line from SS-2					12"
10 Instrument air					1¼"
11 Plant air					2"
12 Portable water					3"
13 LP Nitrogen					1¼"
14 2,4 Bar steam					2"
15 Cooling water					6"
16 Cooling water					8"
Electric and instrument cable racks with cables through culvert.					

Drawings indicating all pipelines



Managing Pipeline Emergency Incidents - Procedure



Purpose

- To provide guidelines for the efficient managing of ON - and OFF Site pipeline incidents.

Scope

- This guideline is applicable to all Sasolburg Operations sites as well as the servitudes where Sasol products are transferred via pipelines. This includes various culverts in public areas and neighboring sites / companies.

EM Response plans drafted



Emergency Management Response Plan

Hazmat Incident levels

Level 1	Incidents that are within the capabilities of the fire or emergency services organization having jurisdiction. Sasol Emergency Management may not be required to respond to these incidents.
Level 2	Incidents that are beyond the capabilities of the fire or emergency services organization having jurisdiction and maybe beyond the capabilities of the first responders on the scene. Sasol Emergency management may be required to respond to these incidents.
Level 3	Incidents that require resources from state/provincial agencies and/or private services; they also require a unified Incident Command post. Sasol Emergency management may be required to respond to these incidents.

Credible Senario 1

EMRA Ref number:	N/A
Scenario:	Gas leak from the pipelines, which is regarded as an immediate hazard and poses danger to life and environment; escaping gas may be ignited unintentionally resulting into a fire/explosion.

Response plan



+ Material Information:

Product state:	Gas state		
Product volume/rate:	N/A		
Mitigation Requirements:	Exact location of the release Isolation valves Use of MSDS/ERG PPE - Level A full encapsulating suits Plant entry point and contact person Available water source and pressure Wind direction and speed		
Possible Deployment Actions:	Evacuate people in the vicinity. Locate any patients, rescue patient and provide treatment Isolate the supply	Isolate the supply. Stop the leak	Containment and extinguishment of the fire. Vapour dispersion.

Response:

1st Response	Tenders	Old Dyna	E-One	Rescue van
	Personnel	2	2	1
Time of arrival @ scene (calculated from time of call – minutes)		5 – 9 min (inside areas); 10 – 30 min (outside areas/ Vaal areas)		
Time 1st response attack deployed (calculated after arrival on scene - minutes)		5 - 10 min		