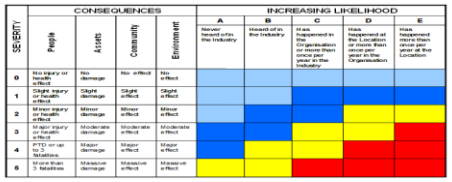
RISK ASSESSMENT FORM
INSTALLATION 2" GAS LINE FROM IA SCRUBBER TO IA WORKSHOP

Department/ Area	**PIPELINE OPERATIONS/MAINTENANCE EAST**
Job type/ Equipt System	**Preventive Maintenance / Process - Pipeline System**
Process	**Instrument Gas**
Task	**Installation of 2" Gas line from IA Scrubber to IA Workshop**



No.	Task/Activity	Risk/Hazard	Threats	Top Event & Consequence	RAM Rating				Existing Controls	Recommendations	Action Party
					P	A	C	E			
1	**Do Nothing (Install 2" Gas line along existing ROW).**	**Construction Hazards**	**High Construction risks to:** **1. Relocate the Well Engineering Drill pipes Laydown area occupying sections of the existing gas line ROW.** **2. Demolish the Piperacks, Pipestand and Drill pipes along sections of the existing Gas line ROW.** **3. Work around the Telecoms facilities and Caravans along ROW**	**1. Potential for asset damage and personnel injury working with many heavy duty cranes and trucks.** **2. Project Delays and Cost overruns.**	C4	C3	C2	C2		**1. Consider alternative routes to Install/ Replace gas line.**	**1. Pipelines Team**
2	**Execution - Installation of 2" Gas Line from IA Scrubber to IA Workshop.**	**All Execution Hazards/Risk (e.g. Underground facilities (e.g. buried Electrical & Telecom cables RoW, water lines, Road crossings, Built-up areas, etc.) will be managed through the Work Method Statement, PTW and JHA processes.**									
3	**Post Implementation:** **Gas line installed on selected route. (Routes selection study done, references below)**	**Hydrocarbon Gas**	**1. Corrosion.** **2. Mechanical impact (from trucks, excavation equipment/ tools, etc.) along new ROW.** **3. Mal-operation of the riser valves and unintended gas supply to the gasline/workshop.** **4. Installed Pipeline with wrong specification.** **5. Facilities/ Buildings.**	**1. Damage to Asset.** **2. LOPC with potential environmental impact & harm to people.**	C4	C3	C2	C2	**1. Riser valves are LO/LC.**	**1. Complete and issue gas line route selection report.** **2. Prepare and issue gas line As-Built Drawings.** **3. Provide adequate pipeline protection for road crossings.** **4. Provide pipeline ROW markers and demarcations, in line with standard pipeline separation distances.** **5. Pipeline burial depth in line with approved standard practice.** **6. Ensure gas line is fully rated for gas supply from the IA scrubber.** **7. Ensure gas line is designed to the right specifications.** **8. Manage access control and install warning signs.** **9. Hook up line to TR system and monitor for effectiveness to check for adequacy of external protection on line** **10. Ensure Coating survey and LRUT covers the entire length of line** **11. Increase frequency of planned maintenance and update in CMMS as assurance of asset integrity/ health of the line** **12. For any section of the RoW close to a building or facility, provide adequate protections similar to road crossings protection.**	**1. Pipelines Team**
	References: Geomatic As-built drawings and Gas line Route selection report.										

Risk Assessment Team				
SN	**Name**	**Team**	**Sign:**	**Date:**
1	**Akudu Williams**	OPS/Mtce Engineer	WILLIAMS AKUDU	September 2021
2	**Nwidag, Barikpoa**	INSPECTOR	Nwidag Barikpoa Digitally signed by Nwidag Barikpoa Date: 2021.09.16 15:09:56 +01'00'	September 2021
3	**Wodemenem, Isaac**	Pipeline HSE Inspector	Isaac Wodemenem Digitally signed by Isaac Wodemenem Date: 2021.09.16 12:55:56 +01'00'	September 2021
4	**Yarhere Anthony**	SE Specialist, Pipeline	Anthony Yarhere Digitally signed by Anthony Yarhere Date: 2021.09.16 15:02:49 +01'00'	September 2021
5	**Obani Chika**	Sr. Pipeline Integrity & Capacity Engineer	Obani Chika Digitally signed by Obani Chika Date: 2021.09.16 15:20:09 +01'00'	September 2021
6	**Nnabugwu, Tochukwu**	Senior Civil Engineer		September 2021
7	**Ukaoha Franklin**	Principal Pipelines Engineer	Franklin Ukaoha Digitally signed by Franklin Ukaoha Date: 2021.09.17 10:01:58 +01'00'	September 2021
8	**Bademosi, Adebayo**	Team Lead, Ops and Mtce Land	Adebayo Bademosi Digitally signed by Adebayo Bademosi Date: 2021.09.17 10:57:36 +01'00'	September 2021
9	**Oluoma Oraemeka**	Process Safety Team	Oluoma Oraemeka Digitally signed by Oluoma Oraemeka Date: 2021.09.17 11:44:24 +01'00'	September 2021
Approval				
1	**Cletus Ujah**	Lead, Pipelines OPS/Mtce, Land Asset	Cletus Ujah Digitally signed by Cletus Ujah Date: 2021.09.19 21:59:56 +01'00'	September 2021