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		Offshore					Onshore											Reference		Responsible							Remarks	
		TSO	TSO/GSM	TSO			TSO	TSO/GSM	NGR/NGV	UG asset in Station			Piping in Station	Pressure Vessel in Station	All			Schedule / Form	Procedure / WI	Plan Action	Prepare TOR	Procure	Execute & Submit	Analyze & Report	Keep Record			
		Trunk Line	Branch	Piping	Pressure Vessel	Platform Structure	Mainline	IPP&SPP (Class 3 / 4)	Distribution (Class 3 / 4)																			
Mechanical damage control : Patrolling																												
1	Patrolling (Vehicle)	ML1	-	-	-	-	-	2W, 2/W	2/W	2/W	-	-	-	-	6M	6M	-	F-TH-GRD.-0022	I-TH.-2038	R	-	-	R	R	R/E	Class 1&2 / Class 3&4		
2	Leakage Survey and Ground/ Crossing Patrolling	ML1	-	-	-	-	-	3M	3M	3M	-	-	-	-	1Y	1Y	1Y	F-TH-GRD.-0022	I-TH.-2042 I-TH.-2043	R	-	-	R	R	R/E	Visual & Gas Leakage Check without open Vault / Visual & Gas Leakage Check with open Vault		
3	Vault Inspection	ML1	-	-	-	-	-	-	1Y/5Y	1Y/5Y	-	-	-	-	1Y	1Y	1Y	F-TH-GRD.-0022	I-TH.-2045	R	-	-	R	R	R/E			
4	Aerial Patrolling	ML1	-	-	-	-	-	3M	3M	-	-	-	-	-	1Y	1Y	1Y	S-TH-GRD.-01-0014 F-TH-GRD.-0022	I-TH.-2039	E	E	E	R/E	R/E	R/E	Except PL region 4, 7		
5	Soil Erosion Survey	ML1	-	-	-	-	-	1Y	1Y	1Y	-	-	-	-	1Y	1Y	-	S-TH-GRD.-01-0021	I-TH.-2043	R	R	R	R	R/E	R/E			
6	Pipeline Settlement Survey	ML2	-	-	-	-	-	-	-	-	-	1Y	-	-	-	-	-	S-TH-GRD.-01-0016 F-TH-GRD.-0024	I-TH.-2044	R	-	-	R	PE/E	R/E			
7	Offshore platform structure settlement surrey	ML2	-	-	-	-	2Y	-	-	-	-	-	-	-	-	-	-	F-TH-1100.-0001	I-TH-1100.0036	OF	OF	OF	OF	OF/E	OF/E	For platform, Topside will be inspected only		
8	ROV Survey (Visual inspection, Free span)	ML3	5Y	5Y	-	-	-	-	-	-	-	-	-	-	5Y	5Y	-	S-TH-GRD.-01-0003	-	OF	OF	OF	OF	OF/E	OF/E			
9	ROV Survey (Visual inspection, FMD)	ML3	-	-	-	-	5Y / 7Y	-	-	-	-	-	-	-	5Y	5Y	-	-	-	OF	OF	OF	OF	OF/E	OF/E	ERP 5 Year / PRP 7 Year		
External corrosion control : Cathodic Protection System, Protective Coating system																												
1	P/S Potential Survey (on-off) @ Test Post	ML2	-	-	-	-	-	6M	6M	6M	6M	-	-	-	1Y	1Y	-	F-TH-GRD.-0004	I-TH.-2003	R	-	-	R	E	R/E			
2	Casing Inspection	ML2	-	-	-	-	-	6M	6M	6M	-	-	-	-	1Y	1Y	-	F-TH-GRD.-0006	I-TH.-2005	R	-	-	R	E	R/E			
3	Bond Box Inspection	ML2	-	-	-	-	-	1M/6M	1M/6M	1M/6M	1M/6M	-	-	-	1Y	1Y	-	F-TH-GRD.-0003	I-TH.-2014	R	-	-	R	E	R/E	Not interrupt CP current / Full inspection		
4	Anode Groundbed Inspection (ICCP) ROV (Anode/Electrolyte Potential Survey)	ML2	5Y	5Y	-	-	5Y / 7Y	-	-	1Y	1Y	-	-	-	5Y	5Y	-	S-TH-GRD.-01-0018 F-TH-THD.-0007	I-TH.-2006	R	-	-	R	E	R/E	ERP 5 Year / PRP 7 Year		
5	CP Transformer Rectifier Inspection	ML1	-	-	-	-	-	-	-	-	-	1M	-	-	1Y	1Y	-	F-TH-THD.-0005	I-THD.-2004	R	-	-	R	E	R/E			
6	AC Mitigation Inspection (DC Decoupler, Surge protecting device, Zn ground wire/mat)	ML2	-	-	-	-	-	1Y	1Y	1Y	1Y	1Y	-	-	-	-	-	F-TH-THD.-0004	I-THD.-2003	R	-	-	R	E	R/E			
7	Close Interval P/S Potential Survey (CIPs) ROV (Pipe/Electrolyte Potential Survey)	ML3	5Y	5Y	-	-	-	5Y	5Y	5Y	5Y	-	-	-	10Y	10Y	-	S-TH-THD.-01-0008 S-TH-THD.-01-0009 F-TH-THD.-0008	I-THD.-2009	R	R	R	R	E	R/E			
8	Coating Defect Survey (DCVG), ACVG, PCM ROV (Voltage Gradient Survey)	ML3	5Y	5Y	-	-	-	5Y	5Y	5Y	5Y	-	-	-	10Y	10Y	-	S-TH-THD.-01-0008 S-TH-THD.-01-0009 F-TH-THD.-0026 F-TH-THD.-0027	I-THD.-2018 I-THD.-2019	R	R	R	R	E	R/E			
9	Insulating Joint or Flange Inspection	ML1	-	-	-	-	-	-	-	-	-	1Y	-	1Y	-	-	-	F-TH-THD.-0011 F-TH-THD.-0025	I-THD.-2015 I-THD.-2016	R	-	-	R	E	R/E			
10	CP Online Calibration (P/S, TR-V,TR-C)	ML2	-	-	-	-	-	-	-	-	-	1Y	-	-	-	-	-	F-TH-THD.-0009 F-TH-THD.-0010 F-TH-THD.-0039	I-THD.-2013 I-THD.-2012 I-THD.-2046	R	-	-	R	E	R/E			
External Inspection / Direct Examination																												
1	General surface / coating condition inspection	ML1	-	-	1Y	-	1Y	-	-	-	-	1Y	5Y	1Y/5Y	-	-	-	F-TH-THD.-0053	-	R/OF	-	-	R/OF	E	R/OF/E	For platform, Topside will be inspected only		
2	Splash zone / soil to air piping inspection	ML1	-	-	1Y	-	1Y	-	-	-	-	1Y/5Y	-	1Y/5Y	-	-	-	F-TH-THD.-0017	I-THD.-2024	R/OF	-	-	R/OF	E	R/OF/E	For riserack_Visual/Close Visual Inspection		
3	Corrosion under pipe support Inspection	ML1	-	-	1Y/5Y	-	-	-	-	-	-	1Y/5Y	-	1Y/5Y	-	-	-	F-TH-THD.-0033	I-THD.-2023	R/OF	-	-	R/OF	E	R/OF/E	Visual / Full Inspection		
4	Corrosion under insulation (CUI) Inspection	ML1	-	-	1Y/5Y	-	-	-	-	-	-	1Y/5Y	-	-	-	-	-	F-TH-THD.-0036	-	R/OF	R/OF	R/OF	R/OF	E	R/OF/E	Visual / Full Inspection		
5	Wall Thickness Inspection @ critical location	ML1	-	-	5Y	5Y	-	-	-	-	-	5Y	5Y	5Y	10Y	-	-	F-TH-THD.-0020 S-TH-THD.-01-0013	P-TH-1100.0502 I-THD.-2058	R/OF	-	-	R/OF	E	R/OF/E	Only for process gas		
6	Crack inspection	ML1	-	-	-	EA	-	-	-	-	-	EA	-	-	-	-	-	S-TH-THD.-01-0013	-	OF	OF	OF	OF	E	OF/E	Crack inspection at weld joint		
7	Hottapped Coupon Measurement	ML1	EH	EH	-	-	-	EH	EH	EH	-	EH	-	-	-	-	-	Coupon Inspection	-	-	E	E	R	E	R/E			
8	Excavation & Direct Examination	ML3	-	-	-	-	-	EP	EP	EA	-	-	-	-	-	-	-	S-TH-THD.-01-0019	-	E	R	R	R/E	E	R/E	Dig site verify after Pigging, DCVG, Hottap		
Internal corrosion control : Chemical Threatment , Moisture dewpoint control																												
1	Moisture control		Monitoring	Monitoring	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	OF	OF	OF	OF	OF	OF	OF		
2	Inhibitor Injection		Monitoring	Monitoring	-	-	-	-	-	-	-	-	-	-	-	-	-	-	I-TH-1100.-1064	OF	OF	OF	OF	OF	OF	OF		
Internal Inspection : Cleaning, Inline & Sample Inspection																												
1	Cleaning Pig	ML2	Cond.	-	-	-	-	Cond.	Cond.	-	-	-	-	-	-	-	-	S-TH-THD.-01-0007	-	E/R/OF	R/OF	R/OF	R/OF	E	R/E/OF	R to sampling & send desposit/liiquid to Q		
2	Corrosion (MFL) Pig	ML3	3Y	-	-	-	-	3Y	3Y	-	-	-	-	-	-	-	-	S-TH-THD.-01-0003 S-TH-THD.-01-0007 S-TH-THD.-01-0008	-	E/R/OF	E	E	R/E/OF	E	R/E/OF			
3	Geometry (Caliper, Gauge, 3D) Pig	ML3	3Y	-	-	-	-	3Y	3Y	-	-	-	-	-	-	-	-	S-TH-THD.-01-0003 S-TH-THD.-01-0007 S-TH-THD.-01-0008	-	E/R/OF	E	E	R/E/OF	E	R/E/OF			
4	Chemical analysis (Deposit, Liquid)	ML2	EP	-	-	-	-	EP	EP	-	-	-	-	-	-	-	-	S-TH-THD.-01-0003 S-TH-THD.-01-0007 S-TH-THD.-01-0008	-	E	Q	Q	R/E/OF	Q	E	From Pig, Filter, Sperator, Slug catcher		
5	Corrosion Probe / Coupon Measurement	ML2	3Y	-	-	-	-	3Y	-	-	-	-	-	-	-	-	-	S-TH-THD.-01-0015	I-THD.-2035	E	E	R/OF	R/OF	R/E/OF	R/E/OF			
Other																												
1	Location Class Survey	ML2	-	-	-	-	-	5Y	5Y	-	-	-	-	-	-	-	-	S-TH-THD.-01-0003	-	A	A	A	A	A/E	A/E	Including aerial photo procurement		
Remarks : The above inspection intervals are minimum requirement, more frequent inspection may required at specific location.														Schedule / Form:				8) S-TH-THD.-01-0009, Distribution PL Indirect Inspection										16) S-TH-THD.-01-0017, Offshore Pipeline ROV survey & Free span correction
- W = Weekly, M = Monthly, Y = Yearly, Cond. = depend on cleanness condition of pipeline or within 2Y before ILI Pig														1) S-TH-THD.-01-0002, MAOP revised for PTT network				9) S-TH-THD.-01-0010, NGV Pipeline Indirect Inspection										17) S-TH-THD.-01-0018, ICCP Anode Groundbed Replacement Plan
- R = Regional Operations, PE= Pipeline engineering division, E = Pipeline maintenance management division, OF = Offshore Operations, Q = PTT Lab, A = Academy division														2) S-TH-THD.-01-0003, TSO Pipeline Integrity Plan				10) S-TH-THD.-01-0011, Natural Gas Pipeline Inspection & Maintenance Program for GSP										18) S-TH-THD.-01-0019, Direct Assessment
- EH = Each Hottap, EP = Each Pigging, DCVG,Aging - EA = Each Assessment - Trunk line = Pipeline segment of the transmission system - Branch = Unpiggable Pipeline														3) S-TH-THD.-01-0004, NGR Pipeline Integrity Plan				11) S-TH-THD.-01-0012, Ageing pipeline integrity management										19) S-TH-THD.-01-0020, Soil Settlement Repair plan
- Preserved pipeline= Pipeline temporarily removed from service and reserve to use in the near future. The pipeline must store the gas inside all the time after stop using it .														4) S-TH-THD.-01-0005, NGV Pipeline Integrity Plan				12) S-TH-THD.-01-0013, Risk-Based Inspection Plan										20) S-TH-THD.-01-0021 Soil Erosion Repair plan
- Abandoned pipeline = Pipeline permanently removed from service and subject to "an irreversible process of discontinuing the use of a P/L The internal P/L must fill up with concrete material or nitrogen.														5) S-TH-THD.-01-0006, Offshore SIM program				13) S-TH-THD.-01-0014, Aerial Patrolling Survey Schedule										21) S-TH-THD.-01-0022, SaleTap and Vent/Drain Pipe Indirect Inspection
- Preserve P/L = Isolated P/L, N2 pack, No Gas inside P/L														6) S-TH-THD.-01-0007, Cleaning PIG Instrument PIG Schedule				14) S-TH-THD.-01-0015, Corrosion Coupon Inspection Schedule										
														7) S-TH-THD.-01-0008, Transmission Pipeline Indirect Inspection				15) S-TH-THD.-01-0016, Soil Settlement Inspection Plan										