

Item		Maintenance Activities															Responsibility						Form : F-PM-750.-0012		
																	Plan Action	Prepare TOR	Procure	Execute & Submit	Analyze & Report	Keep Record	Remarks		
			TSO	TSO/GSM	TSO	TSO	TSO	TSO	TSO/GSM	NGR/NGV	All	All	All	All	All	All								Schedule / Form	Procedure / WI
			Trunk Line	Branch	Piping	Pressure Vessel	Platform Structure	Mainline	Class 3&4	UG asset in Station	Piling in Station	Pressure Vesse in Station	Asset on Pipe rack	Preserve P/L	Abandon P/L										
Mechanical damage control : Patrolling																									
1 Patrolling (Vehicle)			-	-	-	-	-	2W, 2/W 3M	2/W 3M	2/W 3M	-	-	-	-	6M	-	F-PM-750.-0022	I-PM-2038	R	-	-	R	R	R/E	Class 1&2 / Class 3&4
2 Leakage Survey and Ground/Crossing Patrolling			-	-	-	-	-	-	-	-	-	-	-	1Y	1Y	F-PM-750.-0022	I-PM-2042	R	-	-	R	R	R/E		
3 Vault Inspection			-	-	-	-	-	-	1Y/5Y	1Y/5Y	-	-	-	-	1Y	1Y	F-PM-750.-0022	I-PM-2043	R	-	-	R	R	R/E	Visual & Gas Leakage Check without open Vault / Visual & Gas Leakage Check with open Vault
4 Aerial Patrolling			-	-	-	-	-	3M	3M	-	-	-	-	-	1Y	1Y	F-PM-750.-0015	I-PM-2039	E	E	E	R/E	R/E	Except PL region 4, 7	
5 Soil Erosion Survey			-	-	-	-	-	1Y	1Y	1Y	-	-	-	-	-	-	F-PM-750.-0022	I-PM-2043	R	R	R	R	R/E	R/E	
6 Pipeline Settlement Survey			-	-	-	-	-	-	-	-	1Y	-	-	-	-	-	F-PM-750.-0032	I-PM-2044	R	-	-	R	R/E	R/E	
7 Offshore platform structure settlement survey			-	-	-	-	2Y	-	-	-	-	-	-	-	-	-	F-PM-750.-0030	I-PM-2044	R	-	-	R	R/E	R/E	
8 ROV Survey (Visual Inspection, Free span)			5Y	5Y	-	-	-	-	-	-	-	-	-	5Y	-	-	F-PM-750.-0024	I-PM-2044	R	-	-	R	R/E	R/E	
9 ROV Survey (Visual inspection, FMD)			-	-	-	-	5Y / 7Y	-	-	-	-	-	-	5Y	-	-	F-PM-750.-0001	I-PM-2044	OF	OF	OF	OF	OF/E	OF/E	
External corrosion control : Cathodic Protection System, Protective Coating system																									
1 P/S Potential Survey (on-off) @ Test Post			-	-	-	-	-	6M	6M	6M	6N	-	-	-	1Y	1Y	F-PM-750.-0013	I-PM-2003	R	-	-	R	E	R/E	
2 Casing Inspection			-	-	-	-	-	6M	6M	6M	-	-	-	-	1Y	-	F-PM-750.-0006	I-PM-2005	R	-	-	R	E	R/E	
3 Bond Box Inspection			-	-	-	-	-	1M/6M	1M/6M	1M/6M	1M/6M	-	-	-	1Y	1Y	F-PM-750.-0003	I-PM-2014	R	-	-	R	E	R/E	
4 Anode Groundbed Inspection (ICCP)			5Y	5Y	-	-	5Y / 7Y	-	-	1Y	1Y	-	-	5Y	-	-	F-PM-750.-0019	I-PM-2006	R	-	-	R	E	R/E	
5 ROV (Anode/Electrolyte Potential Survey)			-	-	-	-	-	-	-	-	1M	-	-	1Y	1Y	-	F-PM-750.-0007	I-PM-2004	R	-	-	R	E	R/E	
6 CP Transformer Rectifier Inspection			-	-	-	-	-	-	-	-	-	-	-	-	-	-	F-PM-750.-0005	I-PM-2004	R	-	-	R	E	R/E	
7 AC Mitigation Inspection (DC Decoupler, Surge protecting device, Zn around wire/mat)			-	-	-	-	-	1Y	1Y	1Y	1Y	1Y	-	-	-	-	F-PM-750.-0004	I-PM-2003	R	-	-	R	E	R/E	
8 Close Interval P/S Potential Survey (CIPs)			5Y	5Y	-	-	-	5Y	5Y	5Y	5Y	-	-	10Y	-	-	F-PM-750.-0018	I-PM-2009	R	R	R	R	E	R/E	
9 ROV (Pipe/Electrolyte Potential Survey)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	F-PM-750.-0028	I-PM-2008	-	-	-	-	-	-	
10 Coating Defect Survey (DCVG), ACVG, PCM			5Y	5Y	-	-	-	5Y	5Y	5Y	5Y	-	-	-	10Y	-	F-PM-750.-0018	I-PM-2018	R	R	R	R	E	R/E	
11 ROV (Voltage Gradient Survey)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	F-PM-750.-0028	I-PM-2019	-	-	-	-	-	-	
12 Close Interval DCVG			-	-	-	-	-	-	-	-	-	-	-	-	-	-	F-PM-750.-0026	I-PM-2027	-	-	-	-	-	-	
9 Insulating Joint or Flange Inspection			-	-	-	-	-	-	-	-	1Y	-	1Y	-	-	-	F-PM-750.-0011	I-PM-2015	R	-	-	R	E	R/E	
10 CP Online Calibration (P/S, TR-V,TR-C)			-	-	-	-	-	-	-	-	1Y	-	-	-	-	-	F-PM-750.-0025	I-PM-2016	R	-	-	R	E	R/E	
11 CP Online Calibration (P/S, TR-V,TR-C)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	F-PM-750.-0009	I-PM-2013	-	-	-	-	-	-	
12 CP Online Calibration (P/S, TR-V,TR-C)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	F-PM-750.-0010	I-PM-2012	-	-	-	-	-	-	
13 CP Online Calibration (P/S, TR-V,TR-C)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	F-PM-750.-0039	I-PM-2046	-	-	-	-	-	-	
External Inspection / Direct Examination																									
1 General surface / coating condition inspection			-	-	1Y	-	1Y	-	-	-	1Y	5Y	1Y/5Y	-	-	-	F-PM-750.-0053	-	R/OF	-	-	R/OF	E	R/OF/E	For platform, Topside will be inspected only
2 Splash zone / soil to air piping inspection			-	-	1Y	-	1Y	-	-	-	1Y/5Y	-	1Y/5Y	-	-	-	F-PM-750.-0017	I-PM-2024	R/OF	-	-	R/OF	E	R/OF/E	For pipework, Visual/Close Visual Inspection
3 Corrosion under pipe support inspection			-	-	1Y/5Y	-	-	-	-	-	1Y/5Y	-	1Y/5Y	-	-	-	F-PM-750.-0033	I-PM-2023	R/OF	-	-	R/OF	E	R/OF/E	Visual / Full Inspection
4 Corrosion under insulation (CUI) Inspection			-	-	1Y/5Y	-	-	-	-	-	1Y/5Y	-	-	-	-	-	F-PM-750.-0036	-	R/OF	-	R/OF	R/OF	E	R/OF/E	Visual / Full Inspection
5 Wall Thickness Inspection @ critical location			-	-	5Y	5Y	-	-	-	-	5Y	5Y	5Y	10Y	-	-	F-PM-750.-0020	I-PM-2020	R/OF	-	-	R/OF	E	R/OF/E	
6 Crack inspection			-	-	-	5Y	-	-	-	-	-	5Y	-	-	-	-	-	I-PM-2058	-	OF	OF	OF	OF	OF/E	Crack inspection at weld joint
7 Hottapped Coupon Measurement			EH	EH	-	-	-	EH	EH	EH	-	EH	-	-	-	-	Coupon Inspection	-	-	E	E	R	E	R/E	
8 Excavation & Direct Examination			-	-	-	-	-	EP	EP	EA	-	-	-	-	-	-	F-PM-750.-0029	-	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	
2 Inhibitor Injection			Monitoring	Monitoring	-	-	-	-	-	-	-	-	-	-	-	-	-	I-PM-106	-	OF	OF	OF	OF	OF	
Internal Inspection : Cleaning, Inline & Sample Inspection																									
1 Cleaning Pig			Cond.	-	-	-	-	Cond.	Cond.	-	-	-	-	-	-	-	F-PM-750.-0014	-	E/R/OF	R/OF	R/OF	R/OF	E	R/E/OF	R to sampling & send deposit/liquid to Q
2 Corrosion (MFL) Pig			5Y	-	-	-	-	5Y	5Y	-	-	-	-	-	-	-	F-PM-750.-0013	-	E/R/OF	E	E	R/E/OF	E	R/E/OF	
3 Geometry (Caliper, Gauge, 3D) Pig			5Y	-	-	-	-	5Y	5Y	-	-	-	-	-	-	-	F-PM-750.-0014	-	E/R/OF	E	E	R/E/OF	E	R/E/OF	
4 Chemical analysis (Deposit, Liquid)			EP	-	-	-	-	EP	EP	-	-	-	-	-	-	-	F-PM-750.-0013	-	E	Q	Q	R/E/OF	Q	E	From Pig, Filter, Separator, Slug catcher
5 Corrosion Probe / Coupon Measurement			3Y	-	-	-	-	3Y	-	-	-	-	-	-	-	-	F-PM-750.-0018	-	E	E	E	R/E/OF	R/E/OF	R/E/OF	
Other																									
1 Location Class Survey			-	-	-	-	-	5Y	5Y	-	-	-	-	-	-	-	F-PM-750.-0013	-	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.																									
- W = Weekly, M = Monthly, Y = Yearly, Cond. = depend on cleanliness condition of pipeline or within 2Y before ILL Pig																									
- R = Regional Operations, PE = Pipeline engineering management division, OF = Offshore Operations, Q = PTT Lab, A = Academy division																									
- EH = Each Hottap, EP = Each Pigging, DCVG,Aging - EA = Each Assessment - Trunk line = Pipeline segment of the transmission system - Branch = Unpiggable Pipeline																									
- 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 .																									
- 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.																									
- Reserve P/L = Isolated P/L, ND pack, No Gas inside P/L																									
Schedule / Form:																									
1) F-PM-750.-0013, Pipeline Integrity Plan																									
2) F-PM-750.-0014, Cleaning Pig & Instrument Pig Schedule																									
3) F-PM-750.-0015, Aerial Leakage Survey & Patrolling Schedule																									
4) F-PM-750.-0015, Corrosion Coupon Inspection Schedule																									
5) F-PM-750.-0018, Pipeline indirect inspection and Integrity assessment plan																									
6) F-PM-750.-0019, Replacement plan for ICCP Anode groundbed																									
7) F-PM-750.-0028, Distribution P/L Indirect Inspection and Integrity Assessment Plan																									
8) F-PM-750.-0029, Direct Assessment																									
9) F-PM-750.-0030, Soil Settlement																									
10) F-PM-750.-0032, Soil Eosion Correction Plan																									
11) F-PM-750.-0044, Distribution Pipeline Direct Examination																									

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Schedule / Form:
 1) F-PM-750.-0013, Pipeline Integrity Plan
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