





COMPANY STANDARD INSTRUCTION PIPELINE CUTTING LOCATION IDENTIFICATION

Instruction Number: IN-250-HSE-24

Document Classification: Internal

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Approved by	Position	Chief Operations Officer	1.
	Date	N/12/2019	A.Y.

Rev.	Date	Prepared by	Reviewed by					
00	21/10/2019	Snr. Safety Officer &	HSSE Support	HSSE Group	MGM (SC/PE)	Engineering Group	Technical Group	Chief HSSE
		Safety Engineer	Manager	Manager	& Vinyl	Manager	Manager	Officer



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Revision / Modification History:

Rev#	Date	Section No.	Reason for revision / modification
0	20/10/19	All	New Instruction.



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1. OBJECTIVE

To have a systematic approach in order to positively identify specific location on a pipeline for cutting.

To have a clear communication system between production and execution teams to achieve a safe and correct pipe line cutting in the existing plant.

2. SCOPE

To outline the guidelines to identify the correct location for:

- Pipeline Cutting (Cold & Hot)
- Hot Tapping

This Instruction is not covering the process of preparation by production (Decommissioning & positive isolation activities) or the process of job execution by maintenance (Hot work, cold work, hot tapping etc.)

3. INSTRUCTION SUMMARY

This Instruction describes the methodology to identify specific location to execute any cutting activity on existing pipeline in a safe manner so that wrong pipeline cut or cut at the wrong locations type of incidents can be avoided. To mark specific locations, marking and tagging will be done. Specific roles and responsibilities of different disciplines /designations to carry out various activities to meet the requirement are mentioned in the Instruction.



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4. ABBREVIATIONS / DEFINITIONS

#	Abbreviation / Key word	Definition summary	
1	LOPC – Loss of Primary Containment	An unplanned or uncontrolled release of any material from primary containment, including non-toxic and non-flammable materials (e.g. steam, hot water, nitrogen, compressed CO ₂ , or compressed air)	
2	Cold Cutting	Cutting a pipeline with non-sparking tool.	
3	Hot Cutting	Cutting a pipeline with heat or spark generating tool.	
4	Hot Tapping	The technique of attaching a mechanical or welded branch fitting to piping or equipment in service, and creating an opening in that piping or equipment by drilling or cutting a portion of the piping or equipment within the attached fitting, while the pipeline or vessel is operating under pressure or at less than atmospheric pressure, or out of service piping/vessel which cannot be cleared to 0% LEL.	
5	Execution Engineer	QAPCO engineer from execution team accountable to plan and execute the job	
6	Lead Executor	Lead executor as mentioned in permit to work procedure	
7	Permit Issuer	Permit issuer as mentioned in permit to work procedure	
8	Execution Supervisor	Execution supervisor as mentioned in permit to work procedure	
9 Pipeline cutting Request Form		A form which contains all required information for the pipeline cutting activity.	
Pipeline cutting Identification Tag		A "Purple color Tag" (Annexure 9.4) used to identify and mark the pipeline cutting location before execution of work	
11	Pipeline cutting Identification Tape	"Pink orange stripped color sticky tape" which shall be fixed on the pipeline to mark the pipeline cutting location point before execution of work Different tape color can be approved by Safety Manager due to any issue. Uniform implementation across QAPCO shall be ensured.	
12	Pipeline	All kind of piping including those which are coming from other companies to QAPCO	
13 Pipeline for demolition Line totall down		Line for demolition is a line which is going to be removed totally from plant between two positively isolated points or downstream of an isolation point that has been decommissioned.	
13	Critical cut / Cutting location	First Cut is always critical. Following criteria might be considered for identifying other critical cuts: • Chemical being handled • Nearby pipelines handling hazardous chemicals	



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 Possibility of chemical pockets at particular cut location Complexity of area Material of construction of a pipeline / equipment Any bot tapping on hazardous chemical pipeline or on a line on
Any hot tapping on hazardous chemical pipeline or on a line on pipe rack with hazardous chemical pipeline available nearby etc.,

5. DOCUMENT REFERENCES

#	Document ID	Document name	Summary of dependency or use
1	PR-PSS-114	Permit To Work Procedure	Gives connection to permit procedure and practice to perform pipeline cutting
2	PR-251-SF-17	Procedure for Positive Isolation for Piping and Equipment	Communicate the blinding requirement while performing pipeline cutting as required for a specific job.
3	PR-PSS-61	MOC Procedure	MOC requiring pipeline cutting or hot tapping shall follow this procedure requirement for specific location identification.

6. RESPONSIBILITIES

#	Job Title	Responsibilities
1	Execution Engineer	 Shall ensure that the pipeline cutting instruction is followed in true letter and spirit for the job. Shall prepare pipeline cutting request form and submit the form (including marked P&ID and ISOMETRIC) to Production engineer / Supervisor for identification of critical cuts and approval well in advance. Shall provide pipeline cutting identification tag and marking tool to lead executor.
2	Production Engineer/ Supervisor	 Identify critical cuts on the isometric drawing and on the pipeline cutting request form. Approve and sign the pipeline cutting request form. Sign the pipeline cutting identification tag with permanent marker Give advance information about approved pipeline cutting jobs to permit issuer. Shall verify the marking/tagging and sign the pipeline cutting request form.





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3 Shift S issuer	Supervisor / Permit	 Shall ensure that the copy of the approved Pipeline cutting request form (including marked P&ID and ISOMETRIC) is attached with the relevant work permits. Shall ensure that the pipeline required to be cut is properly decommissioned, marked and tagged and can be cut safely. Shall allocate an area operator for the job. Take extra precautions for all the critical cuts of the pipe line (Presence of operator if he deems it necessary). Shall ensure that the concerned operator knows the pipeline cutting location.
4 Lead F Receiv	Executer / Permit	 Shall prepare the work permit and clearly mention the Pipe Cutting line number and description. Shall mark and tag the cutting locations on the pipes prior to the job execution (preferably, at least one week before). Shall attach the approved Pipeline cutting request form (including marked P&ID and ISOMETRIC) and attach it to the work permit. Shall install pipeline cutting identification tag and mark the cutting location with tape in presence of area operator. Shall do the critical cuts in presence of area operator.
5 Area C	Operator	 Shall verify that pipeline cutting request form details matches with the one in work permit. While identifying and marking & tagging the pipeline cutting location, area operator shall be present and ensure the location is correct. Be present at location and take extra precautions before and during the first or/and critical cuts of the pipeline.
6 HSE		 Provide training and create awareness for the Instruction implementation during normal operation as well as during TA/GSD. Safety to regularly audit the activity and share lesson learned for improvement
7 Wareh	ouse	To maintain the inventory and issue tags/tape as required.



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7. INSTRUCTION METHOD

7.1 STEP 1 – PREPARATION

- Execution Engineer / Supervisor shall prepare Pipe cutting request form (marked P&ID and ISOMETRIC) and submit to Production engineer / Supervisor for identification of critical cuts and approval well in advance.
- Production Engineer / Supervisor shall approve the request form.
- Lead executor shall prepare and apply two work permits.
 - o One permit is for preparation job: tagging and marking in field
 - Second work permit is for pipeline cutting execution job.
- Permit issuer will issue only the preparation (Tagging and marking) work permit (cold work permit).

7.2 STEP 2 – MARKING AND TAGGING

- Lead executor will install the identification tag and tape for marking the cutting location according to pipeline cutting request form in presence of area operator.
- Area operator shall ensure that the tagging is in correct location as per the P&ID and ISOMETRIC.
- Area operator with lead executor will sign on the pipe cutting request form.
- Production Engineer / Supervisor shall check & confirm that the pipeline is marked / tagged correctly by physically verifying the location in the area and sign the pipeline cutting request form.

7.3 STEP 3 – JOB EXECUTION

- Permit Issuer will issue the pipeline cutting execution work permit only after conforming that pipeline cutting location has been identified and marked.
- Permit issuer will ensure that the pipeline cutting request form has been signed by all concerned persons and cold work permit for preparation work is closed.
- Permit issuer shall attach the copy of the completed pipeline cutting request form, marked PID & ISOMETRICS with the permit for job execution.
- Lead Executor shall perform the critical cuts in the presence of area operator.



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7.4 STEP 4 - JOB COMPLETION AND CLOSING OF THE WORK PERMIT

• Remove the tags and marking tape from the line and handover to area operator.

7.5 ADDITIONAL PRECAUTION

- In case of any additional or change or modification in the cutting location:
 - It shall be requested by execution engineer and shall be approved by production engineer / supervisor.
 - o It shall be updated in the pipeline cutting request form.
 - o It shall be informed to permit issuer.
 - o Marking to be done again for the new cutting location by following the same instruction



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8. RECORDS

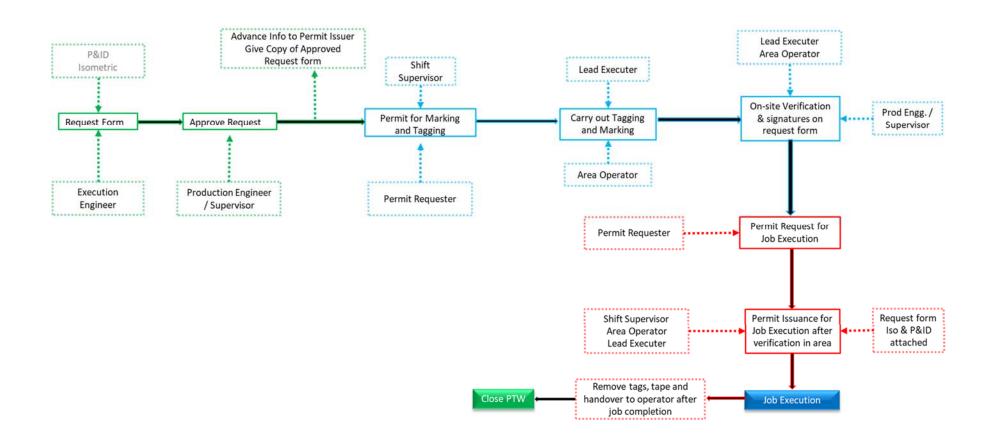
#	Record ID	Record name	Responsibility
1	NA	NA	NA
2			
3			
4			
5			_



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9. APPENDIX

9.1 PIPE CUTTING LOCATION IDENTIFICATION PROCESS FLOW





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9.2 PIPE CUTTING REQUEST FORM

		PIPE CUTTING REQUEST FORM							
QAPCO	7 🦱	Line No.							
نة قطر للبتروكيماريات OATAR PETROCHEMICAL COMP		Work Order #							
		Job Description							
Pipeline Cutting Location No		les Drawins No	DOLDNO	Intervening Point Information				Critical	D
Pipeline Cutti	ng Location No	Iso Drawing No.	. P&I D No.	Pipe Size (")	Pipe Orientation	Cutting Method	Process Fluid	Yes/No	Remarks
					Done By			Verifi	ed By
	Requested By		Appro	ved By	1	tood, identified, & as correctly along v	marked all Pipe Cutting with critical cuts	Checked and ve	rified in the area
Name									
Signature									
Designation Execution		on Engineer	Production Engineer / Supervisor		Lead Executor		Area Operator	Production Engineer / Supervisor	
Date									
Note: In case Ze	ro energy confirm	nation is not possible,	team shall raise	the concern to h	igher level for fur	ther assessment			



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9.3 SAMPLE (FILLED) FORM & ASSOCIATED DOCUMENTS

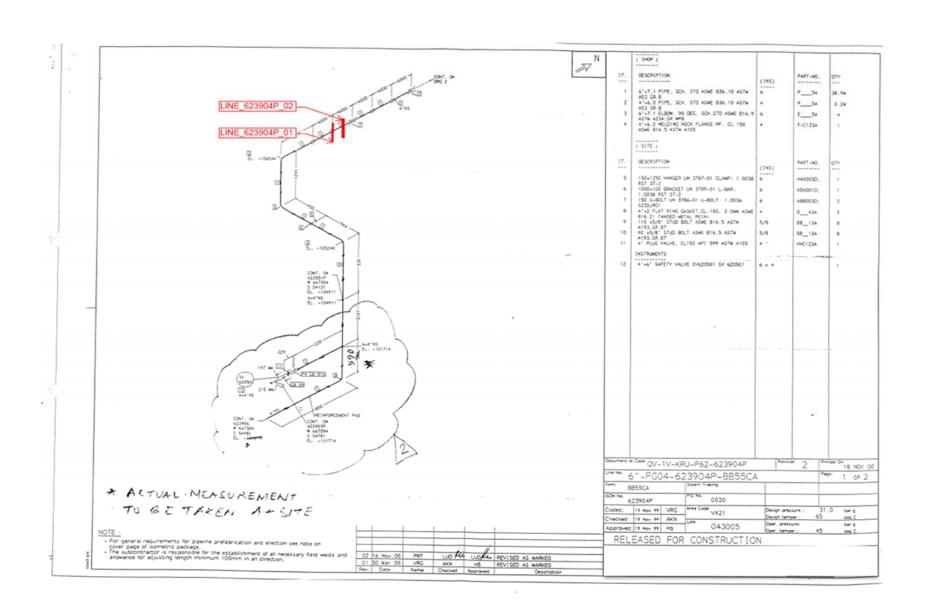
					PIPE CUTTIN	IG REQUEST FO	PRM			
QAPC	7 🧥	Line No.	LINE_623904P							
OATAR PETROCHEMICAL COMPANY		Nork Order # 12345								
		Job Description	FUEL GAS LINE CUTTING							
Pipeline Cutting Location No		las Dravilas Na	P&I D No.	Intervening Point Information		Cutting Mathed	Process Fluid	Critical	Remarks	
		Iso Drawing No.	Pai D No.	Pipe Size (")	Pipe Orientation	Cutting Method	Process Fluid	Yes/No	Remarks	
6239	04P_01	623904P	20	6	Horizontal	Grinding	Hydrocarbon	Yes		
6239	04P_02	623904P	20	6	Horizontal	Grinding	Hydrocarbon	No		
					Done By Verified			ed By		
	Req	uested By	Approved By		We have understood, identified, & marked the all Pipe Cutting Locations correctly along with critical cuts		Checked and verified in the area			
Name										
Signature										
Designation	Designation Execution Engineer		Production Engi	Engineer / Supervisor Lead Execut		xecutor	ecutor Area Operator Produc		ction Engineer / Supervisor	
Date				_					_	







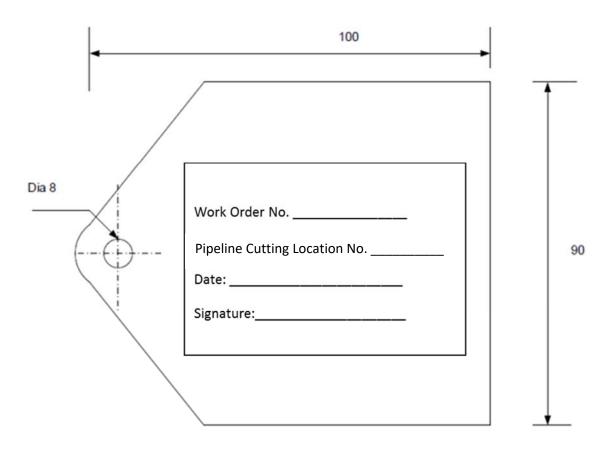
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9.4 SPECIMEN OF IDENTIFICATION TAG









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ADDENDUM FOR MINOR CHANGES AND REVISION

Procedure No.	PR-PSS-88-F-01
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Date	Division	De	Department / Section			
17-02-2021	HSE		HSSE Support			
Title / Ref No. of the procedure	Instruction for Pipeline Cutting Location Identification (IN-250- HSE-24)					
Category (tick)	QMS IMS	OHSAS	ISMS	Others		
Details of the revision / change (in brief)	a) Appendix 9.2 Pipe Cutting Request Form Title changed from Pipe intervention request form to pipe cutting request form "Pipe No." column removed from the request form. "Pipe Location No." column name changed to Pipeline cutting location no.					
	b) Appendix 9.3 Sample Filled Form & Associated documents Title changed from Pipe intervention request form to pipe cutting request form "Pipe No." column removed from the sample filled form. "Pipe Location No." column name changed to Pipeline cutting location no.					
	c) Appendix 9.4 Specimen of Identification Tag "Pipe location no." changed to "Pipeline cutting location no."					
	d) Section 4. Abbreviation/Definitions "Point 11" tape color Pink color changed to "Pink orange stripped color sticky tape" "Different tape color can be approved by Safety Manager due to any issue. Uniform implementation across QAPCO shall be ensured".					
Justification for revision the new procedure	1- To remove duplication of line number and pipe no. as one request form is for single line no. only 2- To enhance the clarity of pipe location no. column 3- Different color for tape is based on the availability Initiated by: Snr. HSE Officer					
Review by line management:	Recommendation:	n				
Date: 18.02.24	Signature	aufin-	Date: 1	8.02.21.		
Review by Quality department	Recommendation: Remarks: Approved / Rejection	eted (Tick)				
App RAGIM DURESH bi	HSEQGM signature	20	Date 28	12021		
	2					
HISSE SUPPORT MANAGER						