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Pipeline Surveillance

ENERGY TRANSFER

Transwestern Pipeline Company

Code Reference	:	Procedure No.: I.21	
49 CFR: 192.70	5, 192.706, 192.709	Effective Date: April 2, 2007	Page 1 of 8
1.0 Procedure Description	This Standard Operating Procedure (SOP) establishes the requirements for a patrol program for pipeline systems.		
2.0 Scope	This SOP describes the criteria for conducting and documenting pipeline patrols to verify the safety of the pipeline.		
3.0 Applicability	This SOP applies to all pipelines that are subject to third party damage or outside forces.		
4.0 Frequency	The operating pressure, the class location, enc frequency, terrain, and weather should be con- frequency. The Sr. Vice President of Operatio (Table 2) frequency as required, but shall con- Table 1.	sidered in determining ns may adjust the Ae	g the patrol rial Patrol Schedule

 Table 1

 Transmission Line Patrol Schedule

 At Highways and

 tion
 Railroad Crossings
 At All C

	At Highways and	
Class Location	Railroad Crossings	At All Other Locations
	2 times per year with	Once per calendar year, with
	intervals not to exceed $7\frac{1}{2}$	intervals not to exceed 15
1&2	months	months
	4 times per year with	2 times per calendar year,
	intervals not to exceed $4\frac{1}{2}$	with intervals not to exceed
3	months	7½ months
	4 times per year with	4 times per year with
	intervals not to exceed $4\frac{1}{2}$	intervals not to exceed 41/2
4	months	months

Table 2 Aerial Patrol Schedule

Frequency of Patrols
Monthly
Monthly



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5.0 Governance	The following table d operations described	-	lity, accountability, and	d authority of the
	Function	Responsibility	Accountability	Authority

Function	Responsibility	Accountability	Authority
Aerial Surveillance	Asset Management Team	Operations Manager	Area Director
Patrol Observations	Operator Performing Patrol	Operations Manager	Area Director
Notification of Encroachment Problems	Operator Performing Patrol	Operations Manager	Area Director
Reporting	Asset Management Team or Operator Performing Patrol	Operations Manager	Area Director

6.0	For general terms, refer to A.01 Glossary and Acronyms.
Terms and	
Definitions	

7.0 Surveillance of Pipelines	The Asset Management Team develops a patrol program to observe surface conditions on and adjacent to the transmission line right-of-way for indications of leaks, construction activity, and other factors affecting safety and operations.
	Methods of patrolling include walking, driving, flying, or other appropriate means of traversing the right-of-way.
	The following procedures are described in this section:Aerial surveillance
	Patrol observations
	Notification of encroachment problems
	• Reporting
7.1 Aerial Surveillance	The Asset Management Team schedules aerial patrols utilizing fixed wing aircraft or helicopters.
	In the event of a cancellation, the patrol pilot documents the cancellation of a scheduled aerial patrol due to weather conditions, mechanical readiness of the aircraft, or other conditions and notifies the Asset Management Team.
	Continued on next page

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Step	Activity
1	VERIFY the personnel performing the patrols have adequate training and experience to identify the various items in the following section, "Patrol Observations," relative to onshore and marsh patrols, as applicable.
2	CONSIDER accompanying the patrol pilot on the aerial patrol at least twice a year for Class 3 locations and annually for Class 1 and 2 locations.
3	EVALUATE construction activity to determine if more frequent flights are warranted.

7.2 Patrol Observations

The operator performing a ground or aerial patrol keeps a log of the patrol, observing and documenting the following items:

- 1. General conditions of the right-of-way.
- 2. Indications of sink holes, sunken trenches, or exposed pipelines.
- 3. Water erosion, soil slippage, or landslide areas.
- 4. Indications of gas leakage such as gas blowing, displaced backfill, discolored or wilted vegetation, bubbles in water puddles or water crossing areas, and/or ice formations over the pipeline.
- 5. Fires on or adjacent to the right-of-way.
- 6. The condition of pipeline markers.
- 7. Damage to existing company facilities such as valves, metering and regulating stations, loop terminals, or communications facilities.
- 8. Construction activity on, in the vicinity of, or progressing toward the pipeline rightof-way (including evidence of possible construction such as the presence of excavation equipment).
- 9. Land leveling or grading activities.
- 10. Excavation near the pipelines, including routine activities occurring within industrial properties.
- 11. Installation of houses, mobile homes, businesses, churches, or other structures of human occupancy, if such structures could possibly be within 660 feet or when the Potential Impact Radius (PIR) exceeds 660 feet to at least the distance of the PIR as shown in *Appendix B Potential Impact Radius*.
- 12. Installation of parks, recreation areas, or other places of assembly on or adjacent to the right-of-way, if such areas could possibly be within 660 feet of the pipeline or when the Potential Impact Radius (PIR) exceeds 660 feet to at least the distance of the PIR as shown in *Appendix B Potential Impact Radius*.
- 13. Construction of irrigation or drainage canals, ponds, or swimming pools.

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- 14. Installation of irrigation piping systems, sprinkler systems, sewers, utilities, or other underground facilities or structures.
- 15. Installation of telephone or power poles, fence posts, or guy wire anchors.
- 16. Tree logging operations.
- 17. Seismic geological survey activities, well logging operations, well drilling activities, or quarry and blasting work.
- 18. Any unusual conditions or activities which may have an effect on the pipelines.

The patrol operator performs the following procedure when potential encroachments are identified during a patrol survey.

7.3

Notification of Encroachment Problems

Step	Activity
1	NOTIFY the Asset Management Team regarding encroachment activities which could affect the pipeline. In the event the Asset Management Team is not available, CONTACT Gas Control.
2	RECORD the details of the activity, the name of the Asset Management Team member who was notified, and the time of the notification in <i>Form</i> <i>I.25.A Aerial Patrol Trouble Report (APTR) or equivalent.</i>
3	If previously reported activities (or occurrences) have changed in a manner that might affect the pipeline, such as road construction, pipeline construction or erosion on the right-of-way, NOTIFY the Area regarding the activities.

7.4 Reporting A member of the Asset Management Team makes the following reports for conditions identified by patrols.

Step	Activity
1	DOCUMENT the results of the Area's investigation and any other conditions
	found or reported that could adversely affect the safety, operation, or
	maintenance of the pipeline system on Form B.13.A Encroachment, Foreign
	Line Crossing and Class Location HCA Report. INCLUDE a description of
	conditions found and any remedial action required or taken.

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Step	Activity
2	COMPLETE the APTR or applicable form within two business days from when the patrol flight is completed. Includes sketches, photos, or additional data to supplement reports where necessary.
3	INCLUDE on the APTR a description of each activity on or adjacent to the pipeline right-of-way.
NOTE: the AP7	Provide a distinct number for each individual report of activity documented on 'R.
4	INVESTIGATE each activity reported on the APTR.



4	INVESTIGATE each activity reported on the APTR.

7.4.1	Complete the following forms as part of the line patrol summary.
Line Patrol	
Summary	

Step	Task	Done By
1	Completes Form B.13.A Encroachment,	Asset Management Team
	Foreign Line Crossing and Class Location HCA	
	Report with the results of the investigation.	
2	Completes Form I.21.A Line Patrol or	Asset Management Team
	equivalent for each aerial patrol completed.	
NOTE the flig	: The report number will be recorded on the APTR	no later than one week after
the flig	: The report number will be recorded on the APTR ht day.	
	: The report number will be recorded on the APTR ht day. Issues the form no later than the 10th day after	Asset Management Team
the flig	 The report number will be recorded on the APTR ht day. Issues the form no later than the 10th day after the completion of the patrol. 	Asset Management Team
the flig	 The report number will be recorded on the APTR ht day. Issues the form no later than the 10th day after the completion of the patrol. Completes Form I.21.A with line number 	
the flig	 The report number will be recorded on the APTR ht day. Issues the form no later than the 10th day after the completion of the patrol. 	Asset Management Team

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8.0 Form B.13.A Encroachment, Foreign Line Crossing and Class Location HCA Report
 Documentation
 Requirements
 Form I.25.A Aerial Patrol Trouble Report (APTR) (or equivalent form)

Activity	TW Reporting
Acknowledge the requirements as outlined in the SOP have been completed. Record exceptions in the description tab.	D7-I

9.0 There are no documents referenced in this SOP. **References**

Volume I – PIPELINE

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Appendix A:The table below identifies the Operator Qualification (OQ) task requirements.KSA and OQTask Table

Task Description	OQ Task
Pipeline Patrol	PLOQ701B

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Appendix B:The following chart outlines the Potential Impact Radius (PIR) greater than 660 feet.PotentialImpact Radius

Diameter	МАОР	Impact Radius (ft.)
36	1200	860.5
36	1000	785.5
36	900	745.2
30	1200	717.1
30	900	621.0
28	1200	669.3

Encroachment, Foreign Line Crossing and

Class Location HCA Reports

AVAILABLE ELECTRONICALLY

Report No.	🗌 One-ca	il No.	Other					
RECIPIENT OF REQUEST/REPORT:		\$		ч				
Received by (Co. Person)	Other Con	npany Personnel N	otified	Date Receive	d Time Received			
COMPANY PIPELINE OR FACILITY	INVOLVED:	1						
Line Number	Name of Pipeline				Survey Station/Mile Post			
Describe Involvement:	,							
FOREIGN PARTY IDENTIFICATION:	ATTACHED ONE-C	ALL TICKET		Ched list of "Indent	IFIED SITES"			
Business/Contractor/Landowner/Local	Official		Contact's Name	e and Title				
Business Telephone No.	omo.c.		Contact Telepho					
				2				
Address		City		State	County and ZIP			
INFORMATION PROVIDED TO FORI By: Phone Fax L Construction Guidelines Provided:		🗌 List 🗌 En	nail 🗌 Other					
PROPOSED SCOPE OF WORK:	SEE ATTACHED ONE-C	CALL TICKET						
Description of Information Requested	or Work to be Performed:							
			_					
Starting Date	Starting Time	Explosive	s Used? Yes	No One-Call Noti	fied 🛄 Yes 🛄 No			
Location of Proposed Work: City			State	County				
Township	Range	Section	Block	Other				
SITE INVESTIGATION: Were F	lags or Markers Existing?	Yes No	Installed? 🗌 Yes	No Were Lines L	ocated? Yes No			
If Yes, attach related details.	If No, Why?							
Any Damage To The Lines? 🗌 Yes	No If yes, Describe:							
Date Investigation Conducted		stigation Conducted	t					
Name of Person(s) Investigating	F	Print Name		(Signature)				
Foreign Crossing Yes No Report Prepared	Comments:							
Class Location Yes No Report Prepared	Comments:							
Project in Progress	Project Completed	Prepared By (Signa	ture)					

DISTRIBUTION:

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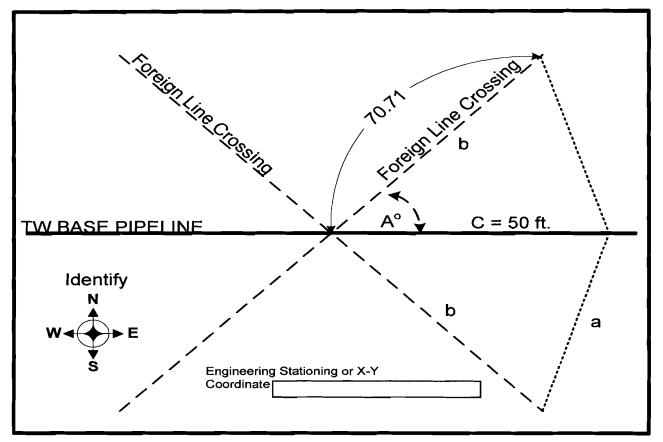
Transwestern Pipeline Company

Original – Team Compliance File Copy's – Integrity Engineer, GIS Dept., Project Completion

energy transfer Transwestern Pipeline Company					
			AVAI	LABLE ELEC	TRON
		Location Report			
	_	OFFICIAL	LIST/MAP	ATTACHED S	KETCH
INITIAL REPORT			NITIAL REPORT:		
LINE NO.	ENGINEERING	3 STATION			
LINE NO.	ENGINEERING STATION	1. 2.4. C.C. Martin	OFFSET DIRECTION (L/R)	NCE	LON
TYPE OF STRUCTURE, OPEN AREA	OR FACILITY INVOLVED (See SO	P J.01 for Definitions)			
Single Family Dwelling		ed Mobility, Confined o	or Hard to Evacuate P	People	
Multiple Occupancy Dwelling	D Open Air Structure (S	Stadium or other Structu	re that is open to the ai	r or with temporary	walls)
Populated Outside Area Det			·		,
Date	Occupied				
SPECIFIC INFORMATION ON THE AB	SOVE STRUCTURE, OPEN AREA O	R FACILITY CHECKED A	BOVE		
Facility/Site Type:			ty Name:		
(Prison, School, Park etc.)		(Ex	Joe's Crab Shack)		
Number of Occupants (max per day)	Days per week	Weeks per yea	ar Hours pe	er day l	Days pe
(max per day)	Days per week		ar Hours pe	·	•
(max per day) Address (street)	÷	City,		State	Days pe ZIP
(max per day) Address (street) Alignment Sheet No.:	÷			·	•
(max per day) Address (street) Alignment Sheet No.: DGPS/GPS METHOD	Sub	City, odivision Plat Attached (if a	vailable) Yes	State	ZIP
(max per day) Address (street) Alignment Sheet No.: DGPS/GPS METHOD 1.Structure Upstream	Sub *Latitude =	City, odivision Plat Attached (if an N	vailable) Tes	State	ZIP
(max per day) Address (street) Alignment Sheet No.: DGPS/GPS METHOD 1.Structure <u>Upstream</u> a.Pipeline <u>Center Line</u>	Sub *Latitude = *Latitude =	City, odivision Plat Attached (if a °N °N	vailable) Yes *Longitude = *Longitude =	State	ZIP W W
(max per day) Address (street) Alignment Sheet No.: DGPS/GPS METHOD 1.Structure <u>Upstream</u> a.Pipeline <u>Center Line</u> 2.Structure <u>Center of Structure</u>	Sub *Latitude = *Latitude = *Latitude =	City, odivision Plat Attached (if a °N °N °N	vailable) Yes *Longitude = *Longitude = *Longitude = *Longitude =	State	ZIP W W
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(max per day) Address (street) Alignment Sheet No.: DGPS/GPS METHOD 1.Structure <u>Upstream</u> a.Pipeline <u>Center Line</u> 2.Structure <u>Center of Structure</u> b.Pipeline <u>Center Line</u>	Sub *Latitude = *Latitude = *Latitude = *Latitude =	City, odivision Plat Attached (if a °N °N °N °N °N	vailable) Yes *Longitude = *Longitude = *Longitude = *Longitude = *Longitude =	State	ZIP W W W



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EXAMPLE

Equation	Step 1 {Calculate Equation}	Step 2 {Result}	Step 3 {Calculate the Angle of Crossing}
$A = \frac{b^2 + c^2 - a^2}{2bc}$	A = $\frac{(70.71)^2 + (50)^2 - (50)^2}{2(70.71)(50)}$	A = 0.707	Cosine ⁻¹ A = 45°
a = 50 ft. b = 70.71 ft c = 50 ft	A = <u>4,999.90</u> 7,071		

Foreign Facility

Size Type/Transports

Material

COMMENTS:



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CONTACTS:		RGENCY OFFICIAL	QUESTIONA	RE with LIST of	currently known "It	DENTIFIED SITES	attached					
Business/Contracto	or/Landowner/Local Of	ficial	Contact's Name and Title									
Buomood, contract			oontaot o na		,se							
Business Telephon	e No.			Contact Tele	phone No,							
Address		City		Sta	ate Coun	ty	ZIP					
				<u> </u>								
Single Family	RE, OPEN AREA OR F	`			r Hard to Evacua	te Peonle						
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Multiple Occupancy Dwelling Open Air Structure (Stadium or other Structure that is open to the air or with temporary walls)												
Date Occupied												
SPECIFIC INFORM	ATION ON THE ABO						<u> </u>					
Facility/Site Type:					V Name:							
(Prison, School, Pa	ırk etc.)			-	oe's Crab Shack)							
Number of Occ	upants	Days per wee	ek	Weeks per year	Hours	s per day Days per year						
Address (street)				City,		State	ZIP					
Alignment Sheet N	0.:		Subdivision	Plat Attached (if	available) 🗌	Yes 🗌 No						
			IDENTIFIE	D SITES								
Facilities with perso	ons who are mobility-ir		difficult to evacu		ed Living Facility	Da	y Care Facility					
Other:	,											
	er for recreational and e area where Twenty (ather fifty (50) t	imes per year (N	ot consecutive), w	ithin a twelve-(12)-r	nonth period.}					
RV Park	Restaurant	Stadium	Conven	ience Store	🗌 Park	Airport	Lake					
River	Factory	Marina	Commu	nity Center	Church	Business	Building					
Other:												
COMMENTS:												
						ξ						

Line Patrol Monthly Summary



AREA			1			LOCATION						DATE					
Line and Station		was	ate in patro Weel	olled	k the			was		olled	k the			was	ite in patro Weel	olled	
	1	2	3	4	5		1	2	3	4	5		1	2	3		5
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NOTE: Bracketed Letters are Pilot Information.

"W" denotes lines not flown due to weather conditions below minimums.

"M" denotes lines not flown due to airplane maintenance.

"X" denotes lines not flown due to - See remarks.

Patrol Pilot

Distribution: Original - Compliance File Copy - Pilot, Area Retention: Original - Life of Facility Copy - 1 Year Plus Current



Date	Form I.25.A	Line Name/ Number	Remarks:
	······································	· · · · · · · · · · · · · · · · · · ·	
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Remarks:		1	



Aerial Patrol Trouble Report

Sheet 1 of 1

AVAILABLE ELECTRONICALLY

TW East TW West Other

AREA

LOCATION

DATE

# STATION LINE # 당 성공	GATE VALVE. MP. OTHER REFERENCE	DISTANCE, DIRECTION FROM REFERENCE	DISTANCE, DIRECTION FROM PIPELINE	Brush Clearing Bld Const. Comm	Bld.Const. M.F. Bld.Const. Res Comparede Boo A	Dirt Work-Grading Dredding-Blasting	Driveway-Park. Lot Fences-Power Aug	Field Tile Fires-Trashpile	Junk-Junkyards Land Lvl Terraces	Leak- Dead Spot Line X-ing Logging Marker Cond. Other	Parked Equip. Pole Barns- Garage Ponds-Dams	Road Const ROW Cond. Seismic	Septic Cesspools Sewers Storage Tanks Sunken Back-Fill	Survey Work Swimming Pools Trees on ROW Untility Poles Well Drilling
Comments	· • · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·							Radio Phone	Time	· ••• · ·	Contact	Form B.13.A
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Route Survey Training														TOTALS

Route Trainer

Pilot

Distribution:

* Original - Compliance File Copy - Patrol Pilot ۰.

Revised 9/26/08

RETENTION: Original - Life of Facility Copy - 1 year plus current