				(L PIPELINE PE UTE VARIATIO					
VARIATION TYPE:	Refinement:		Reroute:	Х	Foot	print:		Design:	
	Centerline:	Х	Pump Station:		Valve	Site:		CAR:	
	_							_	
LOCATION:		ketch:	Atta	ched		ures: N/A			
State:	SD	County:	Harding			Map: N/A			
Township:	19N 28	Range:	05E Centerline:	8/15/2012	Aerial	Map: See atta			321.48
Section:	20		Centenine:	6/15/2012		WF. 32	1.02	to	321.46
REASON FOR ROUTE	E VARIATION (F	Please inclu	de reason for route	variation):					
The primary reason for	this route variat	tion is to avo	oid having the temp	orary workspace	es impacting tra	ct ML-SD-HA-	11792.		
This proposed reroute reroute was drawn bas						e CPMS 60%	Design Revie	ew. The pi	roposed
DETAIL ROUTE VARI	ATION (Please	describe rou	ute variation in detai	l):					
The proposed route va							ends in this d	irection fo	r ~530 ft
Then, the reroute turns	slighly southeas	st and conti	nues for ~1,925 ft to	rejoin the curre	nt CL near MP	321.5.			
ADDITIONAL IMPACT	'S (Please include	de any addit	ional impacts which	may affect cost	t; crossings, inc	uction bends,	etc.):		
3 Tracts are impacted I ML-SD-HA-01790.000 ML-SD-HA-11792.000 ML-SD-HA-01795.000	(Estate of Dorot (Doolittle Wagne	hy E Gottsh er Ranch LL	C) - To be offline	eterson and Lin	da (Peterson) 、	lackson)			
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4 LAND / TransCanada	Tina Hall		
4 LAND / TransCanada		Van	No X
a) Is a new landowner affected by the propose		Yes	
b) Is the affected landowner/tract a possible of	ondemnation?	Yes	NoX
c) Does proposed route variation impact Tribe	al Lands?	Yes	NoX
d) Does proposed route variation impact any	Federal/State Lands?	Yes	No X
-If yes, name type (i.e. USFV	VS, BLM, etc.):		
e) Is proposed realignment outside the easemen	t/workspace?	Yes	No X
f) Is realignment proposed to satisfy landowner re	equest?	Yes	No X
-If yes, name of landowner(s			
-ii yes, name or iandowner(s	rtiack number(s).		
g) Has all the evaluation criteria been examined/	provided for this specific discipline?	Yes X	No
If no, please explain why:			
5 ENGINEERING/CONSTRUCTION - TransCana	da Meera Kothari		
		4.5	. "
a) Maximum deviation perpendicular to proposed			<u>5</u> ft.
b) Does variation (CL) (including workspaces	falls within 500 ft. MDEQ Corridor?	Yes N/A	No
c) Has the centerline been staked for construction	n?	Yes	No X
d) Does route variation affect HDD crossing aligr	nment?	Yes	No X
e) Is realignment proposed for engineering/const	ruction reasons?	Yes X	No
f) Will the route variation require the relocation of		Yes	No X
g) Has all the evaluation criteria been examined/	· ·	Yes X	No No
	provided for this specific discipline?	169^	
If no, please explain why:			
6 ENVIRONMENTAL - TransCanada	Sandra Barnett		
a) Has the corridor been environmentally survey	ed?	Yes X	No
b) Has the proposed variation been environment		Yes X	No
		Yes	No X
c) Does proposed route variation impact Sage	Glouse aleas?		
d) Does route variation impact ABB areas?		Yes	No X
e) Was variation proposed to satisfy environmen	tal issues?	Yes	NoX
	aqueet?	Vee	No X
f) Was realignment proposed to satisfy agency re	equest:	Yes	
	squest:	res	
-If yes, name of agency(s):		res	
	rquest:	res	
-If yes, name of agency(s):	rquest:	Subtracted (-):	100 X
-If yes, name of agency(s): g) Environmental features:	rquest:		100 X
-If yes, name of agency(s): g) Environmental features: Added (+):			100 X
-If yes, name of agency(s): g) Environmental features: Added (+): Wetland ID # for newly	impacted wetlands:	Subtracted (-):	
-If yes, name of agency(s): g) Environmental features: Added (+):	impacted wetlands:		No
-If yes, name of agency(s): g) Environmental features: Added (+): Wetland ID # for newly	impacted wetlands:	Subtracted (-):	
-If yes, name of agency(s): g) Environmental features: Added (+): Wetland ID # for newly h) Has all the evaluation criteria been examined/	impacted wetlands:	Subtracted (-):	
-If yes, name of agency(s): g) Environmental features: Added (+): Wetland ID # for newly h) Has all the evaluation criteria been examined/ If no, please explain why:	impacted wetlands: provided for this specific discipline?	Subtracted (-):	
-If yes, name of agency(s): g) Environmental features: Added (+): Wetland ID # for newly h) Has all the evaluation criteria been examined/ If no, please explain why:	impacted wetlands: provided for this specific discipline?	Subtracted (-):	
-If yes, name of agency(s): g) Environmental features: Added (+): Wetland ID # for newly h) Has all the evaluation criteria been examined/ If no, please explain why:	impacted wetlands: provided for this specific discipline? Section (if applicable) Sandra Gigovic	Subtracted (-):	
-If yes, name of agency(s): g) Environmental features: Added (+): Wetland ID # for newly h) Has all the evaluation criteria been examined/ If no, please explain why:	impacted wetlands: provided for this specific discipline? Section (if applicable) Sandra Gigovic	Subtracted (-): Yes	No
-If yes, name of agency(s): g) Environmental features: Added (+): Wetland ID # for newly h) Has all the evaluation criteria been examined/ If no, please explain why: **TenGINEERING / FACILITIES AND HYDRAULIC a) Will the route variation require the relocation of	impacted wetlands: provided for this specific discipline? See (if applicable) Sandra Gigovic fa pump station?	Yes	No X
-If yes, name of agency(s): g) Environmental features: Added (+): Wetland ID # for newly h) Has all the evaluation criteria been examined/ If no, please explain why: **TengineEring / Facilities and Hydraulic a) Will the route variation require the relocation of b) Will route variation impact hydraulics?	rimpacted wetlands: provided for this specific discipline? Second Seco	Yes Yes Yes	No X No X
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-If yes, name of agency(s): g) Environmental features: Added (+): Wetland ID # for newly h) Has all the evaluation criteria been examined/ If no, please explain why: **Tengineering / Facilities and Hydraulics** c) Are additional valves required at HCA's or wald) Has all the evaluation criteria been examined/ If no, please explain why: **STAKEHOLDER RELATIONS / TCPL (if application) and the variation result in any new stakehold.	rimpacted wetlands: provided for this specific discipline? Sandra Gigovic f a pump station? er crossing? provided for this specific discipline? ble) Bud Andersen ers?	Yes	No X No X No X No X No X
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0382-SD-P4-321.0-321.5-I

KEYSTONE XL PIPELINE PROJECT

		AUTHORIZATION FORM
Date: Description:	10/29/2012 The primary reason for this route variation is to avoid having the temporary workspaces impacting tract ML-SD-HA-11792.	Tracking Number: 0382-SD-P4-321.0-321.5- MPI
TransCanar Comments:	da - Land Tina Hall	Variation Approved Rejected The Province Rejected Rejected Why?
IransCanas Comments:	da:Engineering Meera Kothari	Veriation: Approved Rejected Date: 115212 If Rejected Why?
Exp - Engin Comments	eering Kevin McGlynn	Variation: Approved Rejected Date: 42/17/12 If Rejected Why?
TransCanac Comments:	Sandra Barnett	Variation: Approved Rejected Date: If Rejected Why?
Stantec - Ri	sk Assesment Heidi Tiliquist	Variation: Approved Rejected Date: If Rejected Why?
	Sendra Gigovic N/A. Does not affect facilities	Veriation: Approved Rejected Date: If Rejected
TransCanad Comments:	a - PM (Montana) Alan Lietz	Variation: Approved Rejected Date: If Rejected Why?
TransCanad Comments:	a - PM (South Dakota) James Odom	Variation: Approved Rejected Date: 12 10 12 If Rejected Why?
TransCanad Comments	a - PM (Nehraska) Robert Bradley	Variation: Approved Rejected Date: If Rejected Why?
TransCanad	a - Arta Manager Steve Man	Valiation: Approved Rejected Date: If Rejected Why?
Forward to:	Tina Hali Sandra Br Meera Kothari Heldi Tiliq Kevin MbGlynn Sandra Gi Alan Lietz	uist Robert Bradley govic Steve Marr

0382-SD-P4-321.0-321.5-I

KEYSTONE XL PIPELINE PROJECT

KEYSTONE XIS, TOULE VARIATION	AUTHORIZATION FORMS	
Date: 10/29/2012 Description: The primary reason for this route variation is to avoid having the temporary workspaces impacting tract IVI_SD-HA-11792.	Tracking Number: 0392-SD-P4-321.0-321.5-	0382-SD-P4-321.0-321.5-I
TransCanada - Lang - Trisi Hall Commetia:	Verlation: Approved Rejected Projected Why?	821.0-321.5-I
EransCanado Edginéerios Meera Koznári Commotis:	Verlation: Approved : (Réjected : (Date):	
ExpEndineering Keyn Meshno. Copyrights	Variation: Approved Rejected Palit: ###################################	
TENTICALITICAL PROVIDENTIAL IN A SANCE SEATON SERVICE SEATON S	Variation: Approved : Rejected. Comparison Rejected Rejecte	
Slands - Risk Assement Held (Biquis) Contrients - N/A.	Variation: Approved (injected) [FRejector Why2]	
TransCanada Facilities Sandra (Iginyle: Comments: N/A. Does not affect facilities	Veriation: Approved. Refereed Refereed Service Approved. Date: OCC 5	2012
"TransCanada - PM (Montana) Alan Usiz Comments -	Wind Approved : Rejected Dela: Dela: : : : : : : : : : : : : : : : : : :	2
TransCanada - P.M. (Sovih Dakora)	Vertation: Approved Rejected Data IRRected Why?	
Transganada PM (nehraska) Robert Bradley Contributas	Viriation: Approved Rejoid!	
Trans Cinada v Are Maniau (Sleve Man. Competit -	Window Approved Rejected	
Forward to Tris Halt Sandris B Maera Kodfari Hekit Fist Kavin McChynn Sandris Sandris G	Rober Bradley	

