			_ PIPELINE PROJ TE VARIATION F				
/ARIATION TYPE: Refinement:		Reroute:	X	Footprint:		Design:	Х
Centerline:	Х	Pump Station:		Valve Site:		CAR:	
OCATION:	Sketch:	Attach	ned	Pictures: N	I/A		
State: SD	County:	Harding		Quad Map: N			
Township: 016N		07E, (008E)		· <del>-</del>	ee attached map	sheet	
Section: 25, 36, (31)		Centerline:	11/18/2012	MP:	346.60	to _	347.22
REASON FOR ROUTE VARIATION	(Please include n	eason for route v	ariation):				
The primary reason for this route various cL/workspaces southwest, thus avoid	iation is to avoid in	mpacting eligible	pehistoric cultural	site (SN # 39HN1	202 or C710HA0	09) by shifting	the .
his reroute is requested by Environ	mental and has be	een verified by fie	eld reconnaissance	(civil survey).			
PETAIL ROUTE VARIATION (Please	e describe route v	ariation in detail)	):				
he proposed route variation begins 2,246 ft. stretch where it connects t			west from the curre	ent CL and continu	ues for ~1,093 ft	before roundi	ng into
Tracts impacted:	10 1 1-80-1						
/IL-SD-HA-02990.000 (Dwight A. an /IL-SD-HA-03000.000 (Dale D. Horto							
nL-SD-HA-03000.000 (Dale D. Horto nL-SD-HA-13010.000 (State of Sout	,						
IL-SD-HA-13020.000 (State of Sout	th Dakota)						
/IL-SD-HA-13030.000 (Marsha Lytle	.)						
DDITIONAL IMPACTS (Plasse incl	ude any additiona	Limpacts which	may affect cost: cre	essings induction	hande atc.):		
,	<u> </u>		may affect cost; cro	ossings, induction	bends, etc.):		
,	<u> </u>		may affect cost; cro	ossings, induction	bends, etc.):		
ADDITIONAL IMPACTS (Please incl Additional costs are associated with o	environmental sur	vey.	•			d report, etc)	~\$200,000
Additional costs are associated with	environmental sur	vey.	•			d report, etc) -	~\$200,000
Additional costs are associated with a	environmental sur Treatment/mitigati	vey.	•			d report, etc)	~\$200,000
Additional costs are associated with a Miscellaneous cost savings include: \$250,000	environmental sur Treatment/mitigati	vey.	•			d report, etc)	~\$200,000
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Additional costs are associated with object of the cost of the cost savings include: \$250,000  The reroute increases pipe length by	environmental sur Treatment/mitigati	vey. ion (includes: Mi	•	pproval by agenci			
Additional costs are associated with our discellaneous cost savings include: \$250,000  The reroute increases pipe length by sthere an increase/decrease in the fyes, please list:	environmental sur Treatment/mitigati v 158 ft. number of crossin	vey. ion (includes: Mi	•	pproval by agenci			
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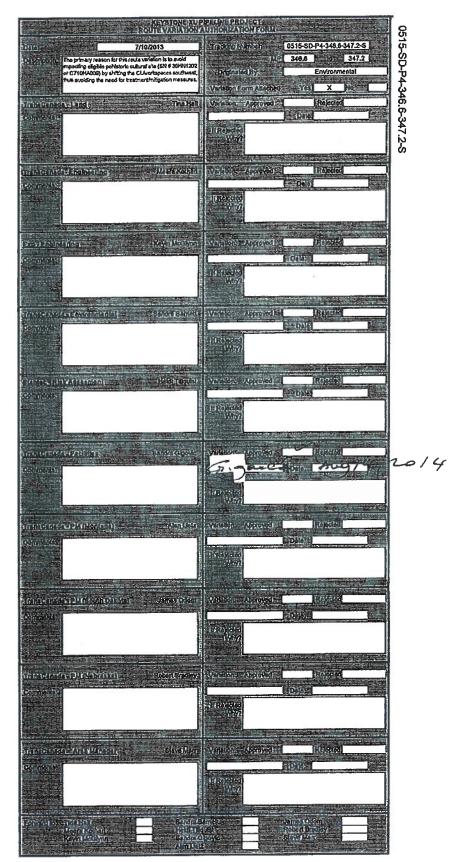
4 LAND / TransCanada	Tina Hall		
a) Is a new landowner affected by the proposed variation?		es	No X
b) Is the affected landowner/tract a possible condemnation?		es	No X
c) Does proposed route variation impact Tribal Lands?		es	No X
d) Does proposed route variation impact any Federal/State Lan		es X	No
-If yes, name type (i.e. USFWS, BLM, etc.):		e of South Dakota	
e) Is proposed realignment outside the easement/workspace?		es X	No
f) Is realignment proposed to satisfy landowner request?		es X	No X
			110
-If yes, name of landowner(s)/track number(s):			
g) Has all the evaluation criteria been examined/provided for this sp	ecific discipline? Y	es X	No
If no, please explain why:			
5 ENGINEERING/CONSTRUCTION - TransCanada	Meera Kothari		
a) Maximum deviation perpendicular to proposed alignment:		330	ft.
b) Does variation (CL) (including workspaces) falls within 500 f	t. MDEQ Corridor?	es N/A	No
c) Has the centerline been staked for construction?	Y	es	No X
d) Does route variation affect HDD crossing alignment?	Υ	es	No X
e) Is realignment proposed for engineering/construction reasons?			No X
f) Will the route variation require the relocation of a pump station?		es	No X
g) Has all the evaluation criteria been examined/provided for this sp		es X	No No
	come discipline:	^	140
If no, please explain why:			
6 ENVIRONMENTAL / TransCanada	Sandra Barnett		
a) Has the corridor been environmentally surveyed?	Y	es X	No
b) Has the proposed variation been environmentally surveyed?	Y	es	No X
c) Does proposed route variation impact Sage Grouse areas?	Y	es	No X
d) Does route variation impact ABB areas?	Y	es	No X
e) Was variation proposed to satisfy environmental issues?	Υ	es X	No
0.14/ 12 / 14 / 12 / 10	V	es	No X
f) Was realignment proposed to satisfy agency request?	Ţ		
			· '''
-If yes, name of agency(s):			
-If yes, name of agency(s):	Subtracted (		
-If yes, name of agency(s): g) Environmental features:			
-If yes, name of agency(s): g) Environmental features:  Added (+):	Subtracted (		
-If yes, name of agency(s): g) Environmental features:  Added (+):  Wetland ID # for newly impacted wetlands	Subtracted (	-):	
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-if yes, name of agency(s):  g) Environmental features:  Added (+):  Wetland ID # for newly impacted wetlands h) Has all the evaluation criteria been examined/provided for this sp If no, please explain why:  **TengineEring / Facilities and Hydraulics**  **TengineEring / Facilities**  **TengineEring / Faciliti	Subtracted ( scipline? Y  Sandra Gigovic	es X	No
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-If yes, name of agency(s):  g) Environmental features:  Added (+):  Wetland ID # for newly impacted wetlands h) Has all the evaluation criteria been examined/provided for this sp If no, please explain why:  **PRINTERING / FACILITIES AND HYDRAULICS (if applicable)** a) Will the route variation require the relocation of a pump station? b) Will route variation impact hydraulics? c) Are additional valves required at HCA's or water crossing? d) Has all the evaluation criteria been examined/provided for this sp If no, please explain why:  **STAKEHOLDER RELATIONS / TCPL (if applicable)** a) Does the variation require follow-up with specific stakeholder gro	Subtracted (  Signature of the state of the	es X  es X  es X  x  x  x  x  x  x  x  x  x  x  x  x  x	No
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-If yes, name of agency(s):  g) Environmental features:  Added (+):  Wetland ID # for newly impacted wetlands h) Has all the evaluation criteria been examined/provided for this sp If no, please explain why:  **PENGINEERING / FACILITIES AND HYDRAULICS (if applicable)** a) Will the route variation require the relocation of a pump station? b) Will route variation impact hydraulics? c) Are additional valves required at HCA's or water crossing? d) Has all the evaluation criteria been examined/provided for this sp If no, please explain why:  **STAKEHOLDER RELATIONS / TCPL (if applicable)** a) Does the variation require follow-up with specific stakeholder gro c) Was the variation proposed to satisfy stakeholder request? -If yes, please specify issue type (as it aligns to stakeholder databased) Has all the evaluation criteria been examined/provided for this sp If no, please explain why:  **Originator:**  Environmental Date:**  7/10/2013	Subtracted (  Signification of the state of	es X  es X  es X  final description of the second of the s	No
-If yes, name of agency(s):  g) Environmental features:  Added (+):  Wetland ID # for newly impacted wetlands h) Has all the evaluation criteria been examined/provided for this sp If no, please explain why:  **Temosine	Subtracted (  Signification of the state of	es X  es X  es X  es X  final description of the second of	No
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0515-SD-P4-346.6-347.2-S

## **KEYSTONE XL PIPELINE PROJECT**

	PIPELINE PROJECT AUTHORIZATION FORM	g g
Date: 7/10/2013  Description: The primary reason for this route variation is to avoid impacting eligible pehistoric cultural sile (SN # 39HM1202 or C710HA009) by shifting the CL/workspaces southwest, thus avoiding the need for treatment/mitigation measures.	Tracking Number:	15-SD-P4-3
TransCanada - Land Comments:	Veriation Approved, A Rejected  1-41-0-12 Date: 7-16-13  If Rejected Why?  Certifical Plats for	0515-SD-P4-346.6-347.2-S
TransCanada-Engineering Meera Kothari Comments:	Variation: Approved Rejected  Date:	_
Exp - Engineering Kevin McGlynn Comments:	Variation: ApprovedRejected  Date:  If Rejected Why?	
TransCanada - Environmental Sandra Barnett  Comments:	Variation: Approved V Rejected  Lum Sittor Date: 7/23/13  If Rejected Pending Survey  Why?	
Stantec - Risk Asseament Heldi Tillquist Comments:	Variation: Approved Rejected Date:  If Rejected Why?	
TransCanada - Facilities Sandra Gigovic Comments:	Variation: ApprovedRejected  Date:  If Rejected Why?	
TransCanada - PM (Montana) Alan Lietz Comments:	Variation: ApprovedRejected  Date: If Rejected Why?	
<u>IransCanada - PM (South Dakota)</u> James Odom  Comments:	Variation: Approved Rejected  Date: 20-Ass-3  If Rejected Why?	
TransCanada - PM (Nebraska) Robert Bradley Comments:	Variation: Approved Rejected  Date: If Rejected Why?	
<u>TransCanada - Area Manager</u> Steve Marr Comments:	Variation: Approved Rejected  Date: If Rejected Why?	
Forward to: Tina Hall Sandra B.  Meera Kothari Heidi Tilic Kevin McGlynn Sandra G.  Alan Lietz	quist Robert Bradley Steve Marr	

## KEYSTONE XL PIPELINE PROJECT



## KEYSTONE XL PIPELINE PROJECT

	AUTHORIZATION FORM
Date: 7/10/2013	Tracking Number: 0515-SD-P4-346.6-347.2-S
Description: The primary reason for this route variation is to avoid	MP: 346.6 to 347.2
impacting eligible pehistoric cultural site (SN # 39HN1202 or C710HA009) by shifting the CL/workspaces southwest,	Originated By: Environmental
thus avoiding the need for treatment/mitigation measures.	Variation Form Attached: Yes X No
TransCanada - Land Tina Hall	Variation: Approved Rejected
Comments:	Date: 22-13
	If Rejected
	Why?
The state of the s	
TransCanada- Engineering Meera Kothan	Variation: Approved Rejected
Comments:	Date:
	if Rejected
	Why?
A Company of the Comp	
Exp - Engineering Kevin McGlynn	Variation: Approved Rejected
Comments:	Date: 8.21-13
	If Rejected Why?
TransCanada - Environmentai Sandra Barnett	Variation: Approved Rejected
TransCanada - Environmental Sandra Barnett Comments:	Variation: Approved Rejected Rejected Date: 8/21/13
Comments.	If Rejected Proding Survey
	Why? Fending Survey
	7 )
Stantec - Risk Assesment Heidi Tillquist	Variation: Approved Rejected
Comments:	Date:
	if Rejected
	Why?
<u>TransCanada - Facilities</u> Sandra Gigovic	Variation: ApprovedRejected
Comments:	Date:
	If Painwhard
	If Rejected Why?
TransCanada - PM (Montana) Alan Lietz	Variation: ApprovedRejected
Comments:	Date:
	If Rejected
	Why?
TransCanada - PM (South Dakota) James Odom	Variation: Approved Rejected
Comments:	Date: 21-1-13
	WRejected
	Why?
Para la la companya de la companya d	Bridge of the series and the series of the s
TransCanada - PM (Nebraska) Robert Bradley	Variation: Approved Rejected
Comments:	Date:
	if Rejected Why?
A STATE OF THE PARTY OF THE PAR	Company of the Compan
TransCanada - Area Manager Steve Marr	Variation: ApprovedRejected
Comments:	Date:
	If Rejected
	Why?
BE 10 TO THE TOTAL OF THE TOTAL	
Forward to: Tina Hall Sandra B	arnett James Odom
Meera Kothari Heidi Tillq	uist Robert Bradley
Kevin McGlynn Sandra G Alan Lietz	
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0515-SD-P4-346.6-347.2-S

MOC#	Mile Post	Tracks	Approved	Rejected	Comments	Recommendations
0515-SD-P4-346.6-347.2-S						
	346.6-347.22					
		ML-SD-HA-02990	X		Pending Survey	
		ML-SD-HA-03000	X		Pending Survey	
		ML-SD-HA-13010	X		Pending Survey	
		ML-SD-HA-13020	X		Pending Survey	
		ML-SD-HA-13030	X		Pending Survey	
0514-SD-P4-362-362.6						
	362-362.6					
		ML-SD-BU-00120	X		Pending Survey	
		ML-SD-PE-00010	X		Pending Survey	
0484-MT-P4-260.3-260.8-S						
	260.3-260.8					
		ML-MT-FA-00610	X		Pending Survey	
		ML-MT-FA-00620	X		Pending Survey	
0472-MT-P4-167.9-168.2-S						
	167.9-168.2					
		ML-MT-DA-00095	X		Pending Survey	

