			KEYSTONE >	XL PIPELINE PRO OUTE VARIATION	JECT FORM			
VARIATION TYPE:	Refinement:		Reroute:	x	Footprint:		Design:	
	Centerline:	x	Pump Station:		Valve Site:	х	CAR:	
LOCATION:	Ske	tch:	Atta	ched	Pictures:	N/A	_	
State:	SD	County:	Haakon		Quad Map:	N/A		
Section:	014_015	Range:	18E	8/15/2012	Aeriai Map:		ap sneet	436.12
Section.	014, 013		Centenine.	0/13/2012		404.02		430.12
REASON FOR ROUT	E VARIATION (Pla	ease include	reason for route	variation):				
The primary reason for	or this route variation	on is to avoid This center	valve site for Ck	K-MLV-19 be locate	ed at a PI by extend lation of the valve	ling the straight	portion of the cer	nterline and
This reroute is reques	ted by Engineering	g based on er	ngineering review	w and aerial, pictor	netry images.			
DETAIL ROUTE VAR	RIATION (Please de	escribe route	variation in deta	il):				
ft. Then it turns south reroute, only the fenc	and extends straige (will be straighter	ght for ~42 ft. n out to parall	to rejoin the cur el the straight lin	rent CL near MP 4 ne).	36.12. The locatio	n of CK-MLV-19	is not impacted I	by the
	TS (Please include	any addition	al impacts which	n may affect cost:	rossinas, inductior	bends, etc.):		
The proposed route v reroute falls within the	ariation avoids the current surveyed	need to insta corridor.	III a fitting (~35,0	000). Furthermore,	there are no addit	onal cost for en	vironmental surve	eys. The
1. 4							N	
ts there an increase/o	ecrease in the num	nber of crossi	ings?		Yes		No	X
Is there an increase/d	ecrease in the nun	nber of crossi	ings?		Yes		No	X
Is there an increase/d If yes, please list: COST ANALYSIS (co	ecrease in the num	nber of crossi	ings? oute variation)		Yes	_	No	X
Is there an increase/d If yes, please list: COST ANALYSIS (co Additional length of ro	ecrease in the num	nber of crossi	ings? oute variation)	23	Yesft.	\$ 8,129.91	No \$3	X 60/ft
Is there an increase/d If yes, please list:	ecrease in the nun sts incurred or sav oute realignment. de-hill construction	nber of crossi red from the r	ings? oute variation)	23 0	Yesftft.	\$ <u>8,129.91</u> \$	No \$3 \$1	X 60/ft 9/ft
Is there an increase/d If yes, please list: COST ANALYSIS (co Additional length of ro Additional length of si Additional length of w	ecrease in the nun ests incurred or sav sute realignment de-hill construction etland construction	nber of crossi red from the r : :	ings? oute variation)	23 0 0	Yes ft ft	\$ 8,129.91 \$ - \$ -	No\$3 \$1 \$1	X 60/ft 9/ft 95/ft
Is there an increase/d If yes, please list: COST ANALYSIS (co Additional length of ro Additional length of si Additional length of w Additional bore length	ecrease in the num osts incurred or sav uute realignment de-hill construction etland construction ((Road, RR):	nber of crossi red from the r : :	ings? oute variation)	23 0 0	Yes_ _ft. _ft. _ft. _ft.	\$ 8,129.91 \$ - \$ - \$ -	\$3 \$1 \$1 \$5	X 60/ft 9/ft 95/ft 40/ft
Is there an increase/d If yes, please list:	ecrease in the num osts incurred or sav oute realignment de-hill construction etland construction I (Road, RR): /pipeline crossings	nber of crossi red from the r : :	ings? oute variation)	23 0 0	Yes ft. ft. ft. ft. EA	\$ 8,129.91 \$ - \$ - \$ - \$ - \$ -	No\$3 \$1 \$5 \$3	X 60/ft 95/ft 40/ft 0,000/EA
Is there an increase/d If yes, please list:	ecrease in the nun osts incurred or sav pute realignment de-hill construction t (Road, RR): /pipeline crossings crossing (streams	nber of crossi red from the r : : ; , ponds, etc.)	ings? route variation)	23 0 0	Yes ft. ft. ft. ft. EA	\$ 8,129.91 \$ - \$ - \$ - \$ - \$ -	No \$3 \$1 \$1 \$5 \$3	X 60/ft 95/ft 40/ft 0,000/EA
Is there an increase/d If yes, please list:	ecrease in the num osts incurred or sav pute realignment de-hill construction etland construction (Road, RR): /pipeline crossings crossing (streams	nber of crossi red from the r : : : , ponds, etc.) 35	ings? route variation)	23 0 0	Yes ft. ft. ft. ft. EA	\$ 8,129.91 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	No\$3 \$1 \$5 \$3 \$1	X 60/ft 9/ft 95/ft 40/ft 0,000/EA 85,000/EA
Is there an increase/d If yes, please list:	ecrease in the num ests incurred or sav nute realignment de-hill construction etland construction (Road, RR): /pipeline crossings crossing (streams	nber of crossi red from the r : : ; , ponds, etc.) 35 10'	ings? route variation) - - - 65' + - 19'	23 0 0 0	Yes ft. ft. ft. ft. EA EA EA	\$ 8,129.91 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	No	X 60/ft 9/ft 95/ft 40/ft 0,000/EA 85,000/EA 7,250/EA
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Is there an increase/d If yes, please list:	ecrease in the num osts incurred or sav pute realignment de-hill construction etland construction (Road, RR): /pipeline crossings crossing (streams uired:	nber of crossi red from the r : : ; ponds, etc.) 35 10' Les Civil: Cultural: tiological:	ings? route variation) - - 65' + - 19' ss than 10'	23 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Yes ft. ft. ft. EA EA EA EA Mile mile	\$ 8,129.91 \$	No	X 60/ft 9/ft 95/ft 40/ft 0,000/EA 85,000/EA 2,500/EA 2,500/EA 2,500/mile ,500/mile
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4 LAND / TransCanada	Tina Hall		
a) is a new landowner affected by the proposed variation?	Ve		No X
b) to the affected landowner/treat a possible condemnation?	Vor	·	
b) is the anected indowner/fract a possible condemination?	Te:	·	
c) Does proposed route variation impact Tribal Lands?	re:	3	
d) Does proposed route variation impact any Federal/State Lar	ids: Yes		
-If yes, name type (i.e. USFWS, BLM, etc.):			
e) Is proposed realignment outside the easement/workspace?	Yes	S	No X
f) Is realignment proposed to satisfy landowner request?	Yes	š	No <u>X</u>
-If yes, name of landowner(s)/track number(s):			
a) Has all the evaluation criteria been examined/provided for this st	pecific discipline? Yes	x X	No
If no, plagao explain why:		· <u> </u>	
5 ENGINEERING/CONSTRUCTION - TransCanada	Meera Kothari		
a) Maximum deviation perpendicular to proposed alignment:		55 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?	Yes	6	No X
d) Does route variation affect HDD crossing alignment?	Yes		No X
e) Is realignment proposed for engineering/construction reasons?	Vor	× ×	No
f) Will the route variation require the releastion of a numerately of	Tes		No ×
c) the effective variation require the relocation of a pump station?	Yes	·	
g) has all the evaluation criteria been examined/provided for this sp	Ves	<u> </u>	
If no, please explain why:			
6 ENVIRONMENTAL - TransCanada	Sandra Barnett		
a) Has the corridor been environmentally surveyed?	Yes	X	No
b) Has the proposed variation been environmentally surveyed?	Yes	X	No
c) Does proposed route variation impact Sare Grouse areas?	Ves	<u> </u>	No X
d) Does proposed route variation impact dage crouse areas :		·	
d) Does route variation impact ABB areas?	Yes	š	
e) Was variation proposed to satisfy environmental issues?	Yes	3	No <u>X</u>
f) Was realignment proposed to satisfy agency request?	Yes	S	No <u>X</u>
-If yes, name of agency(s):			
 g) Environmental features: 			
g) Environmental features:			
g) Environmental features: Added (+):	Subtracted (-)	:	
g) Environmental features: Added (+):	Subtracted (-)	:	
g) Environmental features: Added (+):	Subtracted (-)		
g) Environmental features: Added (+): Wetland ID # for newly impacted wetland	Subtracted (-)		Na
g) Environmental features: Added (+): Wetland ID # for newly impacted wetland h) Has all the evaluation criteria been examined/provided for this sp	Subtracted (-) s: becific discipline? Yes	: 	No
g) Environmental features: Added (+): Wetland ID # for newly impacted wetland h) Has all the evaluation criteria been examined/provided for this sp If no, please explain why:	Subtracted (-) s: becific discipline? Yes	s	No
g) Environmental features: Added (+): Wetland ID # for newly impacted wetland h) Has all the evaluation criteria been examined/provided for this sp If no, please explain why:	Subtracted (-) s: pecific discipline? Yes	5	No
g) Environmental features: Added (+): Wetland ID # for newly impacted wetland h) Has all the evaluation criteria been examined/provided for this sp If no, please explain why:	Subtracted (-) s: pecific discipline? Yes	s	No
g) Environmental features: Added (+): Wetland ID # for newly impacted wetland h) Has all the evaluation criteria been examined/provided for this sp If no, please explain why:	Subtracted (-) s: pecific discipline? Yes Sandra Gigovic	8	No
 g) Environmental features: Added (+): Wetland ID # for newly impacted wetland h) Has all the evaluation criteria been examined/provided for this split find, please explain why: 7 7 ENGINEERING / FACILITIES AND HYDRAULICS (if applicable) a) Will the route variation require the relocation of a pump station?	Subtracted (-) s: pecific discipline? Yes Sandra Gigovic Yes		No X
 g) Environmental features: Added (+): Wetland ID # for newly impacted wetland h) Has all the evaluation criteria been examined/provided for this split find, please explain why: 7 ENGINEERING / FACILITIES AND HYDRAULICS (if applicable) a) Will the route variation require the relocation of a pump station? b) Will route variation impact hydraulics? 	Subtracted (-) s: pecific discipline? Yes Sandra Gigovic Yes Yes	s	No
 g) Environmental features: Added (+): Wetland ID # for newly impacted wetland h) Has all the evaluation criteria been examined/provided for this split find, please explain why: 7 ENGINEERING / 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? 	Subtracted (-) s: pecific discipline? Yes Sandra Gigovic Yes Yes Yes Yes		No
 g) Environmental features: Added (+): Wetland ID # for newly impacted wetland h) Has all the evaluation criteria been examined/provided for this split find, please explain why: 7 ENGINEERING / 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 split and the evaluation criteria been examined/provided for this split. 	Subtracted (-) s:	s	No X No X No X No X No X No X
 g) Environmental features: Added (+): Wetland ID # for newly impacted wetland h) Has all the evaluation criteria been examined/provided for this split no, please explain why: 7 ENGINEERING / 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 split no, please explain why: 	Subtracted (-) s:	s	No X No X No X No X No X No X
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 g) Environmental features: Added (+): Wetland ID # for newly impacted wetland h) Has all the evaluation criteria been examined/provided for this split no, please explain why: 7 ENGINEERING / 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 split no, please explain why: 8 STAKEHOLDER RELATIONS / TCPL (if applicable) a) Does the variation require follow-up with specific stakeholder growthere and the split of the split	Subtracted (-) s:	s	No X No X No X No X No X No X No X No X
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g) Environmental features: Added (+): Wetland ID # for newly impacted wetland h) Has all the evaluation criteria been examined/provided for this sy If no, please explain why:	Subtracted (-) s:	Image: second	No X No X No X No X No X No X No X No X

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KEYSTONE XL PIPELINE PROJECT



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