			Bully		6	
KEYSTO		PROJECT - STEELE UTE VARIATION FO	Secretary and the Secretary an	т		
1	de la	JIE VARIATION FO	TUM .		FA MES	
VARIATION TYPE: Refinement:			Reroute:	X		
Centerline: X		Valve Site:		Pun	p Station:	
LOCATION: Sketch:	Attac	ched	Pictures: S	see attached		
State: SD County:	Haakon		Quad Map: N	STREET, STREET	Western.	Ministra
Township: 2N Range:			All the same of the same	ee attached map	sheet	
Section: 24, 19, 20	Centerline:	11/18/2010	MP:	473.51	to	475.77
3						
REASON FOR ROUTE VARIATION (Please Inclu						
The current centerline crosses ephemeral drainag construction and save the cost of reclamation by a	e reatures near MP avoiding routing alon	4/4.40 and at MP 4/ or the drainage featur	5.1. This rerout e (~MP 474.4) a	te is proposed to a and to have a betti	avoid a more o	difficult
creek near MP 475.16. This reroute is proposed b	ased on a flyover vi	deo of the centerline	which identified	crossings which a	re difficult to d	construct.
Also this route variation avoids 3 creek crossings current CL near MP 475.2.	near MP 474.3. Va	riation adjusted to inc	rease distance l	between CL and p	ond located s	outhwest of
DETAIL ROUTE VARIATION (Please describe ro						
The proposed route variation starts at MP 473.5 a	nd deviates slightly	(~6°) east from curre	nt centerline. It d	continues in this di	rection for ~4	,950 ft until
it maintains sufficient distance from the drainage/s continues for ~7,120 ft to rejoin the centerline near	r MP 475.77. Along	its path, it makes min	or deviations to	avoid a drainage	rards the CL a feature to its i	and northeast
and crosses Jack Daily creek (EPH) (~MP 475.16) at a better crossing	g location, ~240 ft no	rtheast of its cui	rrent location.		
ADDITIONAL IMPACTS (Please include any additional and additional	tional impacts which	may affect cost; cros	ssings, Induction	bends, etc.):	BANK BIES	
The proposed reroute is ~106 ft longer than the cu			SHE SHOULD BE THE PERSON OF TH	100	2010 1 70	W 152, 2
					1000000	
Is there an increase/decrease in the number of cro If yes, please list: 1 stream crossing (Unnamed to		els EDIO O ather an	Yes_	X	No	
in yes, please list. I stream crossing (Ormained t	ributary to Mud Cree	ek, EPH); 2 otner sm	ali grainage teat	rures		
COST ANALYSIS (costs incurred or saved from the	ne route variation)		- SULYE - S	Manage Ma		- W. W.
Additional length of route realignment:	io road variation,	106 ft.	\$	38,113.20	\$ 3	60/ft
Additional length of side-hill construction:		ft.	\$	A STATE OF THE PARTY OF THE PAR	\$ 11	
Additional length of wetland construction:		ft.	\$	40		95/ft
Additional bore length (Road, RR):		ft.	\$	The second second		40/ft
Additional foreign line/pipeline crossings:		EA	The second second			0,000/EA
Additional water body crossing (streams, ponds, et	ic.):					
	35 - 65' +	EA	\$	-	\$ 11	85,000/EA
	10' - 19'	-1 EA	\$	(77,250.00)		7,250/EA
	Less than 10'	-2 EA	s	(65,000.00)	\$ 32	2,500/EA
Additional survey required:		美丽堂 技术 (图1)				
Civil:		2.29 mil	B \$	11,428.88	\$ 5,	,000/mile
Cultural:		2.29 mlk	\$	5,714.44	\$2,	,500/mlle
Biological:		2.29 mli	\$	6,400.17	\$ 2,	800/mlle
Microllaneaux costs sound as a data day		70141			344	E EST
Miscellaneous costs saved or added due to route v	THE REAL PROPERTY.	IONAL IMPACTS IIS			Complete to the	
Overall estimated costs of the route variation:	\$		(80,593.31) (S	iee "Additional In	npacts" abov	(0)

The State of the S					
AND / UNIVERSAL FIELD		Doug Reichley			-
a) is a new landowner affected by t			Yes	No	X
) is proposed realignment outside			YesX	No	
c) is realignment proposed to satisf	fy landowner request?		Yes	No	X
-If yes, name of	f landowner(s)/track number(s)				-
N Has all the evaluation criteria her	on everyland for this s	recific discipling?	Vac	Ma	ALC: N
I) Has all the evaluation criteria bedf no, please explain why:	en examineurprovided for allo s	pecinc discipilie :	Yes	No	
2002					
ENGINEERING/CONSTRUCTION	/ STATE PM	Meera Kothari			S. A.
) Maximum deviation perpendicula		Begine of the		630 ft.	
) Has the centerline been staked f			Yes		X
) Does route variation affect HDD			Yes		^ X
			The state of the s	The second second	λ
l) Is realignment proposed for engi			YesX		ove
) Will the route variation require the			Yes	Account to the second	X.
) Has all the evaluation criteria bee i no, please explain why:	n examined/provided for this sp	pecitic discipline?	Yes	No	
no, please explain why:					
NVIRONMENTAL / exp		Jonathan Minton			
) Has the corridor been environme	ntally surveyed?		Yes X	No	000
) Has the proposed variation been	STEEL STATE OF THE		Yes	THE PERSON NAMED IN COLUMN	,
) Was variation proposed to satisfy			Yes		χ ·
) Was realignment proposed to sails!			A STATE OF THE STA	the second little to the second	Υ ·
y vvas reaugiment proposed to sa	usly agency request?		Yes	No	<u> </u>
-If yes, name of	agency(s):				
) Environmental features:					
Added (+):			Subtracted (-):		
Added (+):			Subtracted (-):		
	# for newly impacted wetlands:		Subtracted (-):		
	# for newly impacted wetlands:		Subtracted (-): Yes	No	
Wettand ID	# for newly impacted wetlands:			No	
Wettand ID Has all the evaluation criteria beer no, please explain why:	# for newly impacted wetlands: n examined/provided for this sp	necific discipline?		No	
Wettand ID Has all the evaluation criteria beer	# for newly impacted wetlands: n examined/provided for this sp	necific discipline?		No.	
Wetland ID Has all the evaluation criteria beer no, please explain why: NGINEERING / FACILITIES AND Will the route variation require the	# for newly impacted wetlands: n examined/provided for this sp HYDRAULICS (if applicable) a relocation of a pump station?	necific discipline?	Yes	No	
Wetland ID Has all the evaluation criteria beer no, please explain why: NGINEERING / FACILITIES AND Will the route variation require the Will route variation impact hydrau	# for newly impacted wetlands: n examined/provided for this sp HYDRAULICS (if applicable) e relocation of a pump station? dics?	necific discipline?	Yes		
Wetland ID Has all the evaluation criteria been no, please explain why: NGINEERING / FACILITIES AND Will the route variation require the Will route variation impact hydrau Are additional valves required at I	# for newly impacted wetlands: n examined/provided for this sp HYDRAULICS (if applicable) e relocation of a pump station? dics? HCA's or water crossing?	ecific discipline? Sandra Gigovic	Yes	No	
Wettand ID Has all the evaluation criteria beer no, please explain why: NGINEERING / FACILITIES AND Will the route variation require the Will route variation impact hydrau Are additional valves required at II Has all the evaluation criteria bee	# for newly impacted wetlands: n examined/provided for this sp HYDRAULICS (if applicable) e relocation of a pump station? dics? HCA's or water crossing?	ecific discipline? Sandra Gigovic	YesYes	No	
Wetland ID Has all the evaluation criteria been no, please explain why: NGINEERING / FACILITIES AND Will the route variation require the Will route variation impact hydrau Are additional valves required at I	# for newly impacted wetlands: n examined/provided for this sp HYDRAULICS (if applicable) e relocation of a pump station? dics? HCA's or water crossing?	ecific discipline? Sandra Gigovic	YesYesYes	No. No. No.	
Wettand ID Has all the evaluation criteria beer no, please explain why: NGINEERING / FACILITIES AND Will the route variation require the Will route variation impact hydrau Are additional valves required at it Has all the evaluation criteria beer no, please explain why:	# for newly impacted wetlands: n examined/provided for this sp HYDRAULICS (if applicable) e relocation of a pump station? flics? HCA's or water crossing? n examined/provided for this sp	Sandra Gigovic pecific discipline?	YesYesYes	No. No. No.	
Wetland ID Has all the evaluation criteria beer no, please explain why: NGINEERING / FACILITIES AND Will the route variation require the Will route variation impact hydrau Are additional valves required at it Has all the evaluation criteria beer no, please explain why: TAKEHOLDER RELATIONS / TC	# for newly impacted wetlands: n examined/provided for this sp HYDRAULICS (if applicable) a relocation of a pump station? dics? HCA's or water crossing? an examined/provided for this sp	ecific discipline? Sandra Gigovic	Yes_Yes_Yes_Yes_Yes_Yes_Yes_Yes_Yes_Yes_	No No No No	
Wettand ID Has all the evaluation criteria beer no, please explain why: NGINEERING / FACILITIES AND Will the route variation require the Will route variation impact hydrau Are additional valves required at it Has all the evaluation criteria beer no, please explain why: TAKEHOLDER RELATIONS / TC Does the variation result in any ne	# for newly impacted wetlands: n examined/provided for this sp HYDRAULICS (if applicable) e relocation of a pump station? dics? HCA's or water crossing? In examined/provided for this sp PL (if applicable) ew stakeholders?	Sandra Gigovic pecific discipline? Bud Andersen	YesYesYesYesYesYesYesYesYesYesYesYesYesYesYesYes	No No No No	
Wettand ID Has all the evaluation criteria beer no, please explain why: NGINEERING / FACILITIES AND) Will the route variation require the) Will route variation impact hydrau) Are additional valves required at it) Has all the evaluation criteria beer no, please explain why: TAKEHOLDER RELATIONS / TC) Does the variation regulire follow-	# for newly impacted wetlands: n examined/provided for this sp HYDRAULICS (if applicable) e relocation of a pump station? flics? HCA's or water crossing? In examined/provided for this sp PL (if applicable) ew stakeholders? up with specific stakeholder group	Sandra Gigovic pecific discipline? Bud Andersen	Yes_Yes_Yes_Yes_Yes_Yes_Yes_Yes_Yes_Yes_	No No No No No	
Wettand ID Has all the evaluation criteria beer no, please explain why: NGINEERING / FACILITIES AND) Will the route variation require the) Will route variation impact hydrau) Are additional valves required at it) Has all the evaluation criteria beer no, please explain why: TAKEHOLDER RELATIONS / TC) Does the variation result in any no) Does the variation require follow- i Was the variation proposed to sai	# for newly impacted wetlands: n examined/provided for this sp HYDRAULICS (if applicable) e relocation of a pump station? flics? HCA's or water crossing? n examined/provided for this sp PL (if applicable) ew stakeholders? up with specific stakeholder grottisfy stakeholder request?	Sandra Gigovic pecific discipline? Bud Andersen	YesYesYesYesYesYesYesYesYesYesYesYesYesYesYesYes	No No No No	
Wettand ID Has all the evaluation criteria beer no, please explain why: NGINEERING / FACILITIES AND Will the route variation require the Will route variation impact hydrau Are additional valves required at I Has all the evaluation criteria been no, please explain why: TAKEHOLDER RELATIONS / TC Does the variation result in any ne Does the variation require follow- Was the variation proposed to sai f yes, please specify issue type (as	# for newly impacted wetlands: n examined/provided for this sp HYDRAULICS (if applicable) e relocation of a pump station? dics? HCA's or water crossing? n examined/provided for this sp PL (if applicable) ew stakeholders? up with specific stakeholder grottisfy stakeholder request? it aligns to stakeholder databate	Sandra Gigovic Decific discipline? Bud Andersen Dups?	Yes_Yes_Yes_Yes_Yes_Yes_Yes_Yes_Yes_Yes_	No No No No No	
Wettand ID Has all the evaluation criteria beer no, please explain why: NGINEERING / FACILITIES AND) Will the route variation require the) Will route variation impact hydrau) Are additional valves required at it) Has all the evaluation criteria beer no, please explain why: TAKEHOLDER RELATIONS / TC) Does the variation result in any no) Does the variation require follow- i Was the variation proposed to sai	# for newly impacted wetlands: n examined/provided for this sp HYDRAULICS (if applicable) e relocation of a pump station? dics? HCA's or water crossing? n examined/provided for this sp PL (if applicable) ew stakeholders? up with specific stakeholder grottisfy stakeholder request? it aligns to stakeholder databate	Sandra Gigovic Decific discipline? Bud Andersen Dups?	Yes_Yes_Yes_Yes_Yes_Yes_Yes_Yes_Yes_Yes_	No No No No No	
Wettand ID Has all the evaluation criteria beer no, please explain why: NGINEERING / FACILITIES AND Will the route variation require the Will route variation impact hydrau Are additional valves required at I Has all the evaluation criteria been no, please explain why: TAKEHOLDER RELATIONS / TC Does the variation result in any ne Does the variation require follow- Was the variation proposed to sai f yes, please specify issue type (as	# for newly impacted wetlands: n examined/provided for this sp HYDRAULICS (if applicable) e relocation of a pump station? dics? HCA's or water crossing? n examined/provided for this sp PL (if applicable) ew stakeholders? up with specific stakeholder grottisfy stakeholder request? it aligns to stakeholder databate	Sandra Gigovic Decific discipline? Bud Andersen Dups?	Yes Yes Yes Yes Yes Yes Yes Yes	No N	
Wettand ID Has all the evaluation criteria beer no, please explain why: NGINEERING / FACILITIES AND Will the route variation require the Will route variation impact hydrau Are additional valves required at it Has all the evaluation criteria beer no, please explain why: TAKEHOLDER RELATIONS / TC Does the variation result in any no Does the variation require follow- Was the variation proposed to saif yes, please specify issue type (as Has all the evaluation criteria beer no, please explain why:	# for newly impacted wetlands: n examined/provided for this sp HYDRAULICS (if applicable) a relocation of a pump station? flics? HCA's or water crossing? n examined/provided for this sp PL (if applicable) aw stakeholders? up with specific stakeholder grottisfy stakeholder request? a it aligns to stakeholder databan examined/provided for this sp	Sandra Gigovic Decific discipline? Bud Andersen Dups?	Yes_Yes_Yes_Yes_Yes_Yes_Yes_Yes_Yes_Yes_	No N	
Wettand ID Has all the evaluation criteria beer no, please explain why: NGINEERING / FACILITIES AND Will the route variation require the Will route variation impact hydrau Are additional valves required at I Has all the evaluation criteria beer no, please explain why: TAKEHOLDER RELATIONS / TC Does the variation result in any no Does the variation require follow- Was the variation proposed to saif yes, please specify issue type (as Has all the evaluation criteria beer	# for newly impacted wetlands: n examined/provided for this sp HYDRAULICS (if applicable) a relocation of a pump station? flics? HCA's or water crossing? n examined/provided for this sp PL (if applicable) aw stakeholders? up with specific stakeholder grottisfy stakeholder request? a it aligns to stakeholder databan examined/provided for this sp	Sandra Gigovic Decific discipline? Bud Andersen Dups?	Yes_Yes_Yes_Yes_Yes_Yes_Yes_Yes_Yes_Yes_	No N	
Wettand ID Has all the evaluation criteria beer no, please explain why: NGINEERING / FACILITIES AND Will the route variation require the Will route variation impact hydrau Are additional valves required at it Has all the evaluation criteria beer no, please explain why: TAKEHOLDER RELATIONS / TC Does the variation result in any no Does the variation require follow- Was the variation proposed to saif yes, please specify issue type (as Has all the evaluation criteria beer no, please explain why:	# for newly impacted wetlands: n examined/provided for this sp HYDRAULICS (if applicable) e relocation of a pump station? dics? HCA's or water crossing? en examined/provided for this sp PL (if applicable) ew stakeholders? up with specific stakeholder grotisfy stakeholder request? sit aligns to stakeholder databan examined/provided for this sp ering	Sandra Gigovic Decific discipline? Bud Andersen Dups?	Yes_Yes_Yes_Yes_Yes_Yes_Yes_Yes_Yes_Yes_	No N	
Wettand ID Has all the evaluation criteria beer no, please explain why: NGINEERING / FACILITIES AND) Will the route variation require the) Will route variation impact hydrau) Are additional valves required at it) Has all the evaluation criteria beer no, please explain why: TAKEHOLDER RELATIONS / TC) Does the variation require follow- in Was the variation proposed to sait fives, please specify issue type (as it has all the evaluation criteria beer no, please explain why: Originator: Engine Date: 6/16/2	# for newly impacted wetlands: n examined/provided for this sp HYDRAULICS (if applicable) e relocation of a pump station? flics? HCA's or water crossing? n examined/provided for this sp PL (if applicable) ew stakeholders? up with specific stakeholder grottisfy stakeholder request? sit aligns to stakeholder databan examined/provided for this sp ering 011	Sandra Gigovic Decific discipline? Bud Andersen Dups?	Yes Yes Yes Yes Yes Yes Yes 10 Receiv	No N	
Wettand ID Has all the evaluation criteria beer no, please explain why: NGINEERING / FACILITIES AND) Will the route variation require the) Will route variation impact hydrau) Are additional valves required at it) Has all the evaluation criteria beer no, please explain why: TAKEHOLDER RELATIONS / TC) Does the variation require follow- in Was the variation proposed to sait fives, please specify issue type (as it has all the evaluation criteria beer no, please explain why: Originator: Engine Date: 6/16/2	# for newly impacted wetlands: n examined/provided for this sp HYDRAULICS (if applicable) e relocation of a pump station? dics? HCA's or water crossing? en examined/provided for this sp PL (if applicable) ew stakeholders? up with specific stakeholder grotisfy stakeholder request? sit aligns to stakeholder databan examined/provided for this sp ering	Sandra Gigovic Decific discipline? Bud Andersen Dups?	Yes Yes Yes Yes Yes Yes Yes 10 Receiv	No N	

0200-SD-P2-473.5-475.8-S

KEYSTONE PIPELINE PROJECT - U. ROUTE VARIATION	AUTHORIZATION FORM
Date: 6/16/2011	Tracking Number: 0200-SD-P2-473.5-475.8-S
Description: Reroute to avoid the drainage features.	MP: 473.5 to 475.8 Originated By: Engineering
	Variation Form Attached: Yes X No
<u>Universal Field - Land</u> Doug Reichley	Variation: Approved X Rejected
Comments:	Date: 6/21/2011
	If Rejected Why?
TransCanada- Engineering Meera Kothari	Variation: Approved X Rejected
Comments: By David Guien	Date: 6/21/2011
	if Rejected Why?
Exp - Engineering Butch Wallace	Variation: Approved X Rejected
Comments:	Date: 6/21/2011
	If Rejected
	Why?
TransCanada - Construction Bobby Curbow Comments:	Variation: Approved X Rejected Date: 6/21/2011
	If Rejected
	Why?
Exp - Environmental Jonathan Minton Comments: Requires additional Environmental Surveys.	Variation: Approved X Rejected Date: 6/21/2011
	If Rejected
	Why?
AFFORM Blak Assessment Line Till State of the Control of the Contr	
AECOM - Risk Assesment Heidi Tillquist Comments: N/A	Variation: Approved Rejected Date:
	Date:
	If Rejected
	If Rejected Why?
Exp - Safety Jason Millenbruch	If Rejected Why? Variation: Approved Rejected
Exp - Safety Jason Millenbruch Comments: N/A	If Rejected Why?
	Variation: Approved Rejected If Rejected
	Variation: Approved Rejected Date:
	Variation: Approved Rejected If Rejected
Comments: N/A	Variation: Approved Rejected If Rejected Date: If Rejected Why? Variation: Approved Rejected Date:
Comments: N/A Facilities: Sandra Gigovic	Variation: Approved Rejected If Rejected Date: If Rejected Why? Variation: Approved Rejected
Comments: N/A Facilities: Sandra Gigovic	If Rejected Why? Variation: Approved Rejected Date: If Rejected Why? Variation: Approved Rejected Date: If Rejected Date:
Comments: N/A Facilities: Sandra Gigovic	If Rejected Why? Variation: Approved Rejected Date: If Rejected Why? Variation: Approved Rejected Why? If Rejected Why?
Comments: N/A Facilities: Sandra Gigovic Comments: N/A. Does not affect Facilities.	If Rejected Why? Variation: Approved Rejected Date: If Rejected Why? Variation: Approved Rejected Why? If Rejected Why?
Comments: N/A Facilities: Sandra Gigovic Comments: N/A. Does not affect Facilities. TransCanada - Senior PM Alan Lietz	If Rejected Why? Variation: Approved Rejected Date: If Rejected Why? Variation: Approved Rejected Date: If Rejected Why? Variation: Approved X Rejected Date: 6/21/2011 If Rejected
Comments: N/A Facilities: Sandra Gigovic Comments: N/A. Does not affect Facilities. TransCanada - Senior PM Alan Lietz	Variation: Approved Rejected If Rejected Date: If Rejected Why? Variation: Approved Rejected Date: If Rejected Why? Variation: Approved X Rejected Date: Date: 6/21/2011
Comments: N/A Facilities: Sandra Gigovic Comments: N/A. Does not affect Facilities. TransCanada - Sanior PM Alan Lietz Comments:	If Rejected Why? Variation: Approved Rejected Date: If Rejected Why? Variation: Approved Rejected Date: If Rejected Why? Variation: Approved X Rejected Why? If Rejected Why?
Comments: N/A Facilities: Sandra Gigovic Comments: N/A. Does not affect Facilities. TransCanada - Senior PM Alan Lietz Comments: Steve Marr	If Rejected Why? Variation: Approved Rejected Date: If Rejected Why? Variation: Approved Rejected Date: If Rejected Why? Variation: Approved X Rejected If Rejected Why? Variation: Approved X Rejected
Comments: N/A Facilities: Sandra Gigovic Comments: N/A. Does not affect Facilities. TransCanada - Sanior PM Alan Lietz Comments:	If Rejected Why? Variation: Approved Rejected Date: If Rejected Why? Variation: Approved Rejected Date: If Rejected Why? Variation: Approved X Rejected Why? Variation: Approved X Rejected Why? Variation: Approved X Rejected Date: 8/21/2011
Comments: N/A Facilities: Sandra Gigovic Comments: N/A. Does not affect Facilities. TransCanada - Senior PM Alan Lietz Comments: Steve Marr	If Rejected Why? Variation: Approved Rejected Date: If Rejected Why? Variation: Approved Rejected Date: If Rejected Why? Variation: Approved X Rejected If Rejected Why? Variation: Approved X Rejected
Comments: N/A Facilities: Sandra Gigovic Comments: N/A. Does not affect Facilities. TransCanada - Senior PM Alan Lietz Comments: Steve Marr	Variation: Approved Rejected Date: If Rejected Why? Variation: Approved Rejected Date: If Rejected Why? Variation: Approved X Rejected Date: 6/21/2011 If Rejected Why? Variation: Approved X Rejected Date: 8/21/2011 If Rejected Why?
Comments: N/A Facilities: Sandra Gigovic Comments: N/A. Does not affect Facilities. TransCanada - Senior PM Alan Lietz Comments: TransCanada - Manager Steve Marr Comments: Forward to: Doug Reichley X Jonathan Heldi Tilic	Variation: Approved Rejected Why? Variation: Approved Rejected Why? Variation: Approved Rejected Date: If Rejected Why? Variation: Approved X Rejected Date: 6/21/2011 If Rejected Why? Variation: Approved X Rejected Date: 8/21/2011 If Rejected Why?
Comments: N/A Pacilities: Sandra Gigovic Comments: N/A. Does not affect Facilities. TransCanada - Senior PM Alan Lietz Comments: Steve Marr Comments: Steve Marr Comments: Jonathan	Variation: Approved Rejected Why? Variation: Approved Rejected Why? Variation: Approved Rejected Why? Variation: Approved X Rejected Why?

0200-SD-P2-473.5-475.8-S

KEYSTONE XL PIPELINE PROJECT - STEELE C PIPELINE ROUTE VARIATION FOR		Ţ		
VARIATION TYPE: Refinement:	Reroute:	X		
Centerline: X Valve Site:	X		Pump Station:	
			Turnp Glation.	
OCATION: Sketch: Attached	Pictures: S	ee attached		
State: Multiple County: Multiple	Quad Map: N	THE RESERVE AND ADDRESS OF THE PARTY.	Water and the same of the same	
Township: Multiple Range: Multiple	Aerial Map: S	COLUMN TO A SECURIOR ST.	The state of the s	
Section: Multiple Centerline: 11/18/2010	MP:	XXX.X	to	XXX.X
REASON FOR ROUTE VARIATION (Please include reason for route variation):				
The Reason for each Route Variation (RV) is given with the respective RV file.				
These reroutes are proposed based on aerial/pictometry/Lydar/flyover analysis of current line	e through Mont	ana, South D	akota, and Nebraska	à.
DETAIL ROUTE VARIATION (Please describe route variation in detail):		TUNIOR SON		
See respective Route Variation Files. No new landowners were affected by the proposed rou	ıte variations.			
RVs included: Discussed prior to 6/20/2011:				
Western Prairie Fringe Orchid Reroute (RV-0194)				
John Harter Reroute (RV-0195)				
Buzek Reroute (RV-0197)				
Discussed during 6/20/2011 Meeting:				
Reroute away from sidehiii (SOM Land) (RV-0209)				
Discussed during 6/21/2011 Meeting:				
Reroutes to avoid creek Crossings (RV-0199)				
MP 475 Reroute (RV-0200) Reroutes to lessen/reduce Pis (RV-0213)				
Reroutes to avoid waterwell; fence (RV-0214)				
Reroutes to avoid creeks, dropoffs, wetlands, etc. (RV-0215)				
Reroutes to avoid sideslopes/hilis (RV-0216) Reroutes to avoid pivot centers (RV-0217)				
Discussed during 8/10/2011 Meeting: HWY 73 Reroute (RV-0196)				
HWY 56 Reroute (RV-0219)				
Bad River HDD realignment reroute (RV-0220)				
MP 396 Reroute (RV-0224) Yellowstone River HDD Entry Pt (RV-0227)				
Pi Breakdowns of all previous RV's for new CL (RV-0228 and RV-0229)				
CK-MLV-06 and CK-11 Valves relocation (RV-0230)				New York
ADDITIONAL IMPACTS (Please include any additional impacts which may affect cost; crossi	ings, induction	bends, etc.):		
s there an increase/decrease in the number of crossings?	Yes	- Committee	No	
f yes, please list:				
		1776		1000
Originator	10	Described to		
Originator: Multiple		Received by	With the same of the same of	
Date: 8/12/2011		Date	8/12/2011 Fax to: ?	
	12			
RV-0194-0197, RV-0199-0200, RV-0209, RV-0213-0217, RV-0219- 0220, RV-0224, RV-0227-0230				
Assigned Tracking Number: VECU, NY-0227-0230		Filed by	<i>j</i> :	167 M AL
		Date	o:	100
			Fax to: ?	W. Allah

^{*} Evaluation Criteria is located in Route Refinement and Reroute Process Section 3

KEYSTONE PIPELINE PROJECT - U.S. PHASE IV (STEELE CITY SEGMENT)

ROUTE VARIATION	AUTHORIZATION FORM	Y SEGMENT)
Date: 8/12/2011	Tracking Number:	RV-0194-0197, RV-0199-0200, RV-0209, RV-0213-0217, RV-0219-0220, RV-0224, RV-0227-0230
Description: Western Prairie Fringe Orchid Reroute (RV-0194) John Harter Reroute (RV-0195) Buzzek Reroute (RV-0197) Reroute away from sidehill (SOM Land) (RV-0209)	MP: Originated By: Variation Form Attached:	XXX.X to XXX.X Multiple Yes X No
Iniversal Field - Land Doug Reichley	Variation: Approved	X Rejected
penting surjey	If Rejected Why?	P. R. 10/5)
ranaCanada- Engineering Meera Kothari	Variation Approved	X Rejected
and by David Guien on the 6/20 and 6/21 meetings.	If Rejected Why?	Date: 6/20, 6/21, & 8/10/11
xp - Engineering Butch Wallace	Variation: Approved	X Rejected
comments:	if Rejected Why?	Date: 6/20, 8/21, & 8/10/11
ransCanada - Construction Bobby Curbow	Variation: Approved	X Rejected
omments:	If Rejected Why?	Date: 8/20, 6/21, & 8/10/11
xp - Environmental Jonathan Minton	Variation: Approved	X Rejected
omments:	If Rejected Why?	Date: 6/20, 6/21, & 8/10/11
ECOM - Risk Assesment Heidi Tiliquist	Variation: Approved	N/A Rejected
N/A.	If Rejected Why?	Date:
scilities: Sandra Gigovic	Variation: Approved	N/A Rejected
omments: N/A. Does not affect Facilities.	If Rejected Why?	Date:
anaCanada - PM (NE) Robert Bradley	Variation: Approved	X Rejected
omments:		Date: 8/10/2011
	If Rejected Why?	AND THE REAL PROPERTY.
anaCanada - Senior PM Alan Lietz	Variation: Approved	X Rejected
mments: CM/ NA GPO (CP) LATE	11/1/10	Cate: 6/20, 6/21, & 8/10/11
Regulatory approvab	If Rejected Why?	
ansCanada - Manager Steve Marr	Variation: Approved	Rejected
mments:		Date: 2/3////
	If Rejected Why?	
rward to: Doug Reichley X Jonathan I		lan Lietz X
Meera Kothari X Heidi Tiliqu		teve Marr X

Document Control Number: KXL10-00006-01-AA-180 (Form 2)

RV-0194, 0195, 0197, RV-0199-0200, RV-0209, RV-0213-0217

KEYSTONE PIPELINE PROJECT - U.S. PHASE IV (STEELE CITY SEGMENT)

	KEYSTONE PIPELINE PROJECT - U ROUTE VARIATION	.S. PHASE IV (STEELE CITY SEGMENT) AUTHORIZATION FORM
Date:	8/12/2011	Tracking Number: RV-0194, 0195, 0197, RV-0199-0200, RV-0209, RV-0213-0217
Description:	Western Prairie Fringe Orchid Renote (RV-0196), John Harter Renote (RV-0195); Buzek Renote (RV-0197); Renote awer form cideltill (SOM Land) (RV-0209); Renotes to evoid creek Crossings (RV-0199); MP 475 Renote (RV-0200); Renotes to lessen/reduce Pls (RV-0213); Renotes to avoid waterwell; fence (RV-0214);	MP: XXX.X to XXX.X Originated By: Multiple Variation Form Attached: Yes X No
Universal F	leid - Land Doug Reichley	Variation: Approved X Rejected
Comments:	Singural	Date: 6/20, 6/21, & 8/10/11 If Rejected Why? Dr. G. 10/5/11
IranaCanac	fa- Engineering Meera Kothari	Variation: Approved X Rejected
Comments:	and by David Gulen on the 6/20 and 6/21 meetings. for the are Kothan,	Date: 8/20, 6/21, & 6/10/11 If Rejected Why?
Exp - Engine Comments:	earing Butch Wallace	Variation: Approved X Rejected Date: 6/20, 6/21, 8 8/10/11
		Date: 6/20, 8/21, 8 8/10/11 If Rejected Why?
	a - Construction Bobby Curbow	Variation: Approved X Rejected
Comments:	ne (ny-arita)	Date: 6/20, 6/21, & 8/10/11 If Rejected Why?
Exp - Enviro	nmental Jonathan Minton	Variation: Approved X Rejected
Comments:	fending Survey Complotion	Date: 6/20, 6/21, & 8/10/11 If Rejected Why?
A THE PARTY OF THE	a - Environmental Stephen Craycroft	Variation: Approved X Rejected
Comments:	Personal Control of the Control of t	Date: 6/20, 6/21, & 6/10/11 If Rejected Why?
Facilities:	Sandra Gigovic	Variation: Approved NA Rejected
Comments:	N/A. Does not affect Facilities.	If Rejected
		Why?
	k Assessment Heidi Tiliquist	Variation: Approved Rejected
		If Rejected Why?
IransCanada	- Senior PM Alan Lietz	Variation: Approved X Rejected
Comments:	powlif appearing	Date: 6/20, 6/21, & 8/10/11 If Rejected Why?
TransCanada Comments:	- Manager Steve Marr	Variation: ApprovedRejected
		If Rejected Why?
	Doug Reichley X Jonathan Meera Kotharl X Stephen C Sutch Wallace X Heldi Tiliq Bobby Curbow X Sandra Gl	Craycroft X Steve Marr X

RV-0194, 0195, 0197, RV-0199-0200, RV-0209, RV-0213-0217

TransCanada In business to deliver PROPOSED ROUTE VARIATION 0200-01 SEC 18 T 2N R 24E EDWIN & BECKY HEEB HAAKON CO. -SOUTH DAKOTA -SEC 24 T 2N R 23E ML-SD-HK-01460.000 EDWIN & BECKY HEEB ML-SD-HK-01490.000 JUDITH M. DALY ML-SD-HK-11520.000 JUDITH M. DALY LEGEND **Keystone Phase IV, US exp** Energy Services Inc. Ziebach t: +1.850.385.5441 | f: +1.850.385.5523 1300 Metropolitan Blvd. Tallahassee, FL 32308 U.S.A. Proposed Route Variation 0200-01 300 FT CORRIDOR PHASE IV CL (2010-11-18) PROPERTY PARCEL COUNTY: HAAKON CHECKED BY: STATE: PROPOSED ROUTE VARIATION CULTURAL SITE APPROVED BY: RG SECTION LINE **RV FULL:** 0200-SD-P2-473.5-475.8-S REVISION ACCESS ROAD **PRELIMINARY** The new identity of Trow Engineering Consultants, Inc. \bigcirc PUMP STATION HORIZONTAL DIRECTIONAL DRILL Keystone Phase IV, US • BUILDINGS • EARTH & ENVIRONMENT • ENERGY • • INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY • VALVE SITE PROJECT: THES0050388X XL-00-P-9178 REV. NO.:

