THIS IS EXHIBIT "I" REFERRED TO IN THE AFFIDAVIT OF JANE MUSTAC SWORN BEFORE ME THIS 24TH DAY

A Commissioner, etc.

OF JULY, 2020.

MacKenzie, Diane

From: Sent: Rob Marson < RMarson@uniongas.com > Thursday, November 07, 2019 5:01 PM

To:

Krystal Kalbol

Cc:

Chantelle Rodger

Subject:

Windsor Line Questions - Capacity & Alignment

Attachments:

windsor_line_essex_route_response.docx; windsor_line_essex_capacity_response.docx;

windsor-line replacement baseline schedule.pdf

Follow Up Flag:

Follow up

Flag Status:

Flagged

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Hi Krystal,

I want to thank you and Jane for meeting with us on October 3rd. It has taken longer to respond to your email from October 18th then I had hoped. I apologize for the delay, but the extra time was to ensure the responses to your questions were comprehensive. Our responses are attached: regarding capacity and alignment. Also included is the project schedule. I believe this covers all of the points from the October 18th email.

Krystal, I would like to follow up, and meet with you next week, to be able to clarify any remaining questions and to discuss next steps toward continuing with Municipal Consent approval.

Regards,

Rob

Rob Marson, P.Eng.

Specialist Project Management, Core Projects

ENBRIDGE INC

TEL: 519-436-4600 x5003410 | CELL: 226-626-0641 | <u>rmarson@enbridge.com</u> 50 Keil Dr. N, Chatham, ON N7M 5M1

enbridge.com

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PROJECT SUMMARY

Purpose and Need for Proposed Facilities

Enbridge Gas Inc. is planning to construct approximately 64 kilometres of Nominal Pipe Size (NPS) 6 pipeline, to replace a section of the existing Windsor Line (pipeline) located in the County of Essex and Municipality of Chatham-Kent. The location of the Project is shown in Figure 1 (Windsor Line).

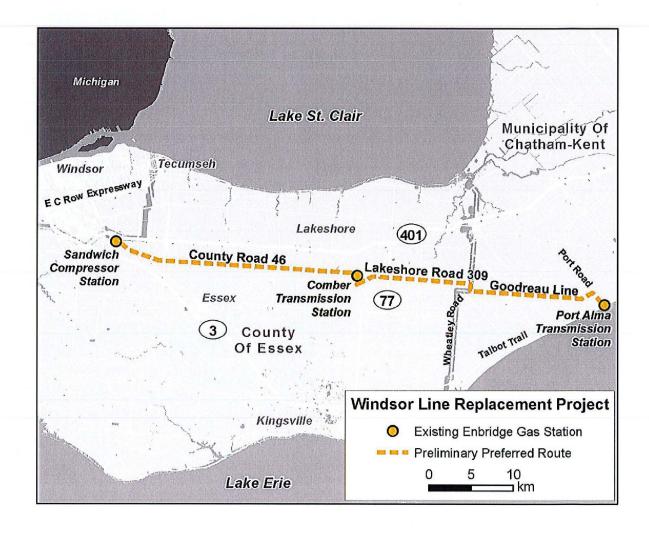


Figure 1. Information map provided during public consultation.

The Windsor Line acts as a trunkline to the local natural gas distribution system providing natural gas service to residents and businesses from Port Alma, in the Municipality of Chatham-Kent to the City of Windsor, located in the County of Essex. There are 399 customers directly served off the section of pipeline being replaced with these 399 customers being a mixture of residential and commercial services. Without this distribution pipeline, those customers would not be connected to natural gas service.

As part of the Enbridge Gas Integrity Management Program and Standard Operating Procedures, the Windsor Line is surveyed and inspected on a regular basis. Leak surveys and emergency valve inspections are completed on an annual basis. A recent depth of cover survey has indicated shallow sections of the pipeline. The results from these inspections and subsequent analysis have identified multiple integrity and depth of cover issues that could pose safety and security of supply concerns if not addressed.

A significant portion of the Windsor Line was installed in the 1930s, 1940s and 1950s, however age alone is not driving the need for replacement.

There are several other factors related to its condition that are equally as relevant when considering the need for replacement. Such factors include:

- History of leakage along the length being targeted for replacement with significant costs to repair leakage events;
- All joints prior to 2000s were made with unrestrained mechanical couplings (compared to welded joints which is industry practice now); portions of the older vintage pipe are not weldable;
- Some sections of the pipeline cannot be isolated because of inoperable mainline valves, which leads to larger customer outages in the event of an emergency; and

 Depth of cover concerns and risk damage by third party contractors, homeowners and farming activities.

Based on these concerns and the significant effort and resources spent already repairing leaks, the Windsor Line has been deemed an operational risk. A risk review of the portion of the existing Windsor Line in the County of Essex was completed in April 2017. The risk review identified that the concerns with the Windsor Line needed to be addressed and replacement of the proposed section of the Windsor Line is the most effective way of managing its ongoing safety and reliability.

Project Timing

Through reviews and inspections, portions of the Windsor Line have been identified as having integrity and reliability concerns.

To assess these concerns Enbridge Gas applies a risk review process to assign severity ranking of the various risks. Through this ranking process the portion of the line along County Road 46 was deemed of most concern.

During project planning, schedule development and stakeholder impacts it was determined that the timely path forward to address the risks would be to consider installation of the replacement pipeline in road allowance and not in easement.

Proposed Facilities

Enbridge Gas is proposing to replace approximately 62 kilometres of NPS 10 and NPS 8 pipeline currently operating at a maximum operating pressure ("MOP") of 1380 kPa with 64 kilometres of NPS 6 pipeline operating at a MOP of 3450 kPa. The existing Windsor Line is installed in road allowance and easement. The following

chart represents the portions in road allowance and easement along County Road 46.

County Ro	ad 46
Road Allowance (km)	Easement (km)
21.8	7.1

Within the County of Essex, the first portion of the existing pipeline that is in easement along County Road 46 starts east of Puce Road and continues for approximately 2.1 km [PL2429-AL-25 thru -29]. The next lengthy segment in easement starts near the Canadian Southern Railway Company abandoned rail line and continues to the intersection of County Road 46 and Rochester Townline Road for 5.0 km [PL2429-AL-43 thru -51].

The Project also involves the installation of small plastic main extensions off the NPS 6 mainline in some areas. In Woodslee, the installation of plastic pipe is being proposed because no landowner was willing to sell Enbridge property to build and install the required distribution station to serve the local area. The installation of plastic removes the need for high pressure services. The other areas where the installation of the plastic main is being proposed, in the same road allowance as the NPS 6 replacement, is to manage areas where deep drainage ditch exist. Installing plastic in these areas will eliminate the need for services to cross the road.

Design Scope

The existing Windsor Line is a distribution pipeline. It performs the same function as other distribution pipelines in the City of Windsor, Towns of Tecumseh, Lakeshore and Municipality of Chatham-Kent. The industry best practice for locating distribution pipelines is in road allowance as these distribution lines are the direct delivery pipelines to natural gas using consumers. The portion of the Windsor Line being replaced has 399 direct customer services plus it is the local higher-pressure source

of gas for each side road off County Road 46. This increases the customer delivery in the local area by several hundred connections.

During the routing stage of the design development several factors are considered. Some of the key factors to consider for a replacement project is where the current pipeline is installed, environmental impacts, social impacts, stakeholder impacts, constructability, schedule and cost. Other points to consider is the current condition of the existing line and how the existing line was constructed. In the case of the existing Windsor Line the pipe sections are predominantly connected using mechanical couplings. This is an important consideration as there is the potential for the mechanical couplings to separate if the connections are exposed during construction while the pipeline is still in service. To complete the replacement of the Windsor Line the existing pipeline must remain in service until the replacement pipeline and all services have been transferred to the new pipeline. Installing the replacement pipeline near the existing pipeline increases construction complexity and will introduce operational, worker and public safety risks.

The installation of distribution pipelines within road allowance is in the public's interest as road allowances become vehicle and utility corridors. These corridors benefit the public along with the Indigenous communities who are served by them. The road allowance route provides cost efficient delivery of services and the lowering of the environmental impact to undisturbed land. This minimizes archeological disturbances and other concerns that Indigenous communities speak to during the consultation process. Being in road allowance also reduces the impact to individual landowners, the enjoyment of their property and coordinating activities across the utility providers and municipalities.

The use of road allowances as a preferred corridor to provide public services is reflected in the general environmental practices applied in Ontario and is within the County of Essex's Official Plan.

The County of Essex Official Plan (2014) states that 'Preferred routes for utility corridors are those that follow existing rights-of-way, property lines and fence lines' (Section 2.11, c, i). The Official Plan further goes on to state that 'Generally, when determining the most appropriate location for future utility corridors, agriculturally designated land and the natural heritage system will be protected and preserved to the greatest extent possible' (Section 2.11).

When considering these points, the desire to rectify the issues with the Windsor Line as quickly practical as possible, to manage stakeholder concerns, worker safety, and to prudently manage capital employed. The only installation of the replacement pipeline that would meet all these objectives is to install it in road allowance. Further, in the County of Essex, most of the existing pipeline is already within road allowance. To consider installation of any portions of the replacement pipeline in easement will increase disturbance to private lands, increase the complexity and difficulty to obtain the necessary land rights and extend the time to replace the pipeline by up to two years.

Abandonment

The County has expressed concern with abandoning in place the existing pipeline in road allowance. Enbridge recognizes this concern and is proposing to remove the abandoned pipeline west of Manning Road. In areas, where it is not practical to remove the existing pipeline, it will be abandoned in place. Areas where abandonment in place is likely to occur will be road crossings, stream crossings, environmentally sensitive areas and finished driveways. The Technical Standards and Safety Authority (TSSA) abandonment guidelines and the applicable current edition of CSA code Z662 (code applicable to natural gas and oil pipelines) will be followed for all pipeline abandonment in place.

Next Steps

Enbridge Gas recognizes the concerns the County has expressed during the Municipal Consent consultation. The proposed alignment has continued to be refined by moving it closer to property lines where possible west of Sexton Side Road. Additional adjustments to the alignment have been considered by the design team to move the pipeline closer to property line in other locations along County Road 46 and Enbridge would respectively request an opportunity to share these changes with County staff. Enbridge Gas requests site visits to review these changes and discuss with the County its concerns to find a way to satisfy all parties.

Enbridge continues to engage with the Towns of Tecumseh and Lakeshore to seek their Municipal Consent.

Windsor Line Capacity

Enbridge Gas currently forecasts system load growth using historical attachment rates for the following customer categories - residential, small commercial, large commercial, small industrial and large industrial. The natural gas growth forecasts range between a 10- or 20-year time horizon. Natural gas growth and/or volumes beyond these timelines lose certainty and are largely dependent upon speculative business estimates and difficult to predict overall economic activity. Therefore, it can be challenging to forecast both development location and requested volumes beyond this time frame.

The time horizon selected for an area may also vary depending on the customer mix and/or internal system piping configuration or constraints. For example, residential growth is generally more predictable than small or large industrial growth such as the Windsor Mega Hospital.

In general, the existing Windsor pipeline is currently at approximately half utilization at points along the pipeline segment. However, the level of pipeline utilization may vary depending on the specific location of future growth along the pipeline. In order to maintain the capacity within the area the newly proposed pipeline has been designed to match the original capacity as closely as possible while utilizing a smaller diameter pipe with a higher pressure.

The Windsor Line is supplied by the Panhandle Transmission System, which has had its capacity significantly increased by a \$250 million expansion in 2017 and the \$100 million Kingsville Transmission Reinforcement expansion this year (2019). As identified in Figure 1, the Windsor Line is connected to the Panhandle Transmission System at the Comber Transmission Station. Future growth on the Windsor Line can be met by additional improved connectivity to the Panhandle Transmission System.

At current attachment rates the new Windsor Line is forecasted to be capable of servicing the anticipated customer volumes for the next 20 years. The new pipeline is forecasted to be closer to full utilization at that time, depending on the location of actual attachments. Enbridge Gas forecasts that the optimal solution in the future for additional pipeline capacity is to replace the remaining section of the current Windsor Line within the City of Windsor, or to provide improved connectivity to the Panhandle Transmission System, not by upsizing or to twin the new proposed replacement for the Windsor Line.

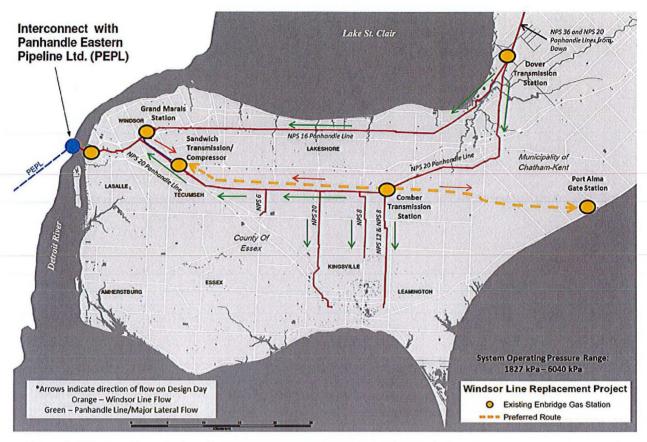


Figure 1. Windsor Line, Panhandle Transmission System, Kingsville Pipeline and Leamington Line general location map. Note arrows on the map indicate normal direction of natural gas flow.

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ity ID	Activity Name	Original Duration	Start	Finish	Physical % Complete	Total II	03 04 01	2019 Q2 Q3 Q	2020 4 Q1 Q2 Q3	Q4 Q1 Q2	
7-18-600 Wir	ndsor Line Replacement	885	11-Sep-18 A	31-Jan-22		0	111111	11111111			
	oject Milestones	885	11-Sep-18 A	31-Jan-22		0	Y				7 3
PFU-MS-1000	Project Start	0	11-Sep-18 A	1	100%		Project Start				
PFU-MS-1010	OEB Submittal	0	09-Aug-19 A	1	100%			S DEB Su	bmittal:		
PFU-MS-1020	Long Lead Materials Ordered	0	04-Nov-19		0%	45			Long Lead Materials Ordered		
PFU-MS-1030	Construction Contract Award	0	1	15-Nov-19	0%	93		1 1 1 1 1 1	Construction Contract Award		
PFU-MS-1040	Complete all Land Rights	0		15-Jan-20	0%	53			Complete all Land Rights		
PFU-MS-1060	OEB Approval	0	-	27-Feb-20 02-Mar-20	0%	23					
PFU-MS-1050 PFU-MS-1070	Receive Mainline Pipe NPS 6 on Site	0	-	17-Mar-20	0%	10			Receive Mainline	V NOO 6 63-	
PFU-MS-1070 PFU-MS-1080	Complete Tree Clearing from ROW (NPS 6)	0		31-Mar-20	0%	- 10	4			earing from ROW (NPS 6)	\$
PFU-MS-1090	Start Construction	0	01-Apr-20	01 mar-20	0%	- 0			Start Constructio		
PFU-MS-1100	Complete - Mainline Mechanical Construction	0	0.770.20	19-Oct-20	0%	13	11111111			Complete - Mainline Mech	nanical Construction
PFU-MS-1110	Project In-Service (Installation of Mainline NPS 6, Stations)	0		31-Oct-20	0%	15				Rroject In Service (Insta	
PFU-MS-1120	Project Close Out	0		131-Jan-22	0%	0					* P
7-18-600 1 Pm	oject Management and Overheads	360	03-Oct-18 A	27-Feb-20		23			27-Feb-20, 57-18-60	0.1 Project Management an	d Overheads
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57-18-600.1.PM.X.I.	IA Internal Approvals	360	03-Oct-18 A	27-Feb-20		23	1 1 2 3 3 3 3 3	11111111	27-Feb-20, 57-18-60	0.1.PM.X.IA Internal Approv	als
PFU-IA-1000	Stage 1 Meeting	1	03-Oct-18 A	03-Oct-18 A			Stage 1 Meetin	ng			
PFU-IA-1010	Obtain Project AFE	0		01-Aug-19 A				\$ Obtain P	roject AFE		
PFU-IA-1030	Stage 2 Meeting	0	4	30-Sep-19	0%	125		Sta	ge 2 Meeting		
PFU-IA-1040	Stage 3 Meeting	0		27-Feb-20	0%	23			Stage 3 Meeting	.1.PM.X.QSG Support Gro	ine.
57-18-600.1.PM.X.C 57-18-600.1.PM.X.C	QSG Support Groups QSG,LAW Law / Regulatory	217	22-Apr-19 A 22-Apr-19 A	27-Feb-20 27-Feb-20	THE RESERVE AND DESCRIPTION OF THE PERSON NAMED IN	23			27-Feb-20, 57-18-60	1.1.PM.X.QSG.LAW Law/	
PFU-16-1050	Comment on First Draft of Evidence	10	22-Apr-19 A	103-May-19 A	100%	20	******	Comment on First	Draft of Evidence		
PFU-16-1060	Send First Draft of Evidence to Team	1	22-Apr-19 A	22-Apr-19 A	100%	_		I Send First Draft of	Evidence to Team		
PFU-16-1070	Consolidate Second Draft and Send to Team	10	.06-May-19 A	17-May-19 A	100%			Consolidate Sec	ond Draft and Send to Team		
PFU-16-1080	Comment on Second Draft of Evidence	20	20-May-19 A	14-Jun-19 A	100%				Second Draft of Evidence		
PFU-16-1090	Send Final Draft for Team's Comments		. 17-Jun-19 A	26-Jun-19 A	100% i				raft for Team's Comments		
PFU-16-1100	Receive all Comments by Regulatory	110	27-Jun-19 A	11-Jul-19 A	100%				Comments by Regulatory		
PFU-16-1110	Send Final Draft for Legal and Executives Review		12-Jul-19 A	18-Jul-19 A	100%				Draft for Legal and Executives		
PFU-16-1120	Receive Legal and Executives Comments by Regulatory	5	19-Jul-19 A	25-Jul-19 A	100%				egal and Executives Comments	by Regulatory	
PFU-16-1130	Finalize Evidence Package	7	26-Jul-19 A	07-Aug-19 A	100%				Svidence Package		
PFU-MS-1140	File the Leave to Construct Application to OEB Received Application Acceptance Letter from OEB	- 0	09-Aug-19 A	27-Aug-19 A	100%				Leave to Construct Application ed Application Acceptance Lette		
PFU-MS-1160 PFU-MS-1170	Received Application Acceptance Letter from OEB Receive Procedural Order from OEB	0		09-Oct-19	0%	23			ceive Procedural Order from OE		
PFU-16-1150	Deliver OEB Decision for Leave to Construct Application	195	10-Oct-19	27-Feb-20	0%	23		♦ FM	Deliver OEB Decision	o for Lower to Construct And	dication
	QSG.CP Contract Procurement	128	17-May-19 A	15-Nov-19		93			15-Nov-19, 57-18-600, 1:PM.X.	OSG.CP Contract Produren	nent
	C.QSG.CP.1 Construction Contract RFP & Award Process	129	17-May-19 A	15-Nov-19		93			15-Nov-19, 57-18-600.1 PM.X.	OSG:CP.1 Construction Cor	tract RFP & Award Pr
PWU-MS-1180	Endorse Sourcing Strategy	0	17-May-19 A	1	100%			S Endorse Sourcin			
PWU-25-1190	Prepare RFP Documentation	20	20-May-19 A		100%			Prepare RFP			
PWU-25-1200	Conduct CP & Supply Chain Review	20		112-Jul-19 A	100%				P & Supply Chain Review		
PWU-25-1210	Conduct Legal Review of RFP Documentation	11	28-Jun-19 A	12-Jul-19 A	100%			Conduct Le	gal Review of RFP Documental	on i i i i i	
PWU-25-1220	Issue RFP		15-Jul-19 A	15-Jul-19 A	100%			Issue REP	1. <u></u>		
PWU-25-1230	Contirm RFP	10	16-Jul-19 A	30-Jul-19 A	100%			= - Confirm	n RFP: ve First Round of Contractor Qu		
PWU-25-1240	Receive First Round of Contractor Questions	- 14	31-Jul-19 A	19-Aug-19 A	100%			I Carry F		estions	
PWU-25-1250 PWU-25-1260	Carry Field Visit Facilitate the commercial / Technical evaluation	14	20-Aug-19 A	20-Aug-19 A	100%	93			tate the commercial / Technical	evaluation	
PWU-25-1200 PWU-MS-1270	Submit Contractors' Proposal to ENB	0	E-Mug-13 A	110-Sep-19	0%	93			nit Contractors' Proposal to ENB	ovaivailUII	
PWU-25-1280	Shortlist Contractors based on Evaluations	115	11-Sep-19	01-Oct-19	0%	93	****		ortlist Contractors based on Eva	uations	
PWU-MS-1290	Negotiate and Finalize the Contract Pricing	0	1	01-Oct-19	0%	93			otiate and Finalize the Contract		
PWU-25-1300	Draft Contract Award Recommendation (CAR)	14	02-Oct-19	22-Oct-19	0%	93			raft Contract Award Recommen		
PWU-MS-1310	Issue Notice of Award to the Successful Contractor	0	1	22-Oct-19	0%	93		8 ls	isue Notice of Award to the Suc	cessful Contractor	
PWU-25-1320	Formation and Internal Approval of the Contract	113	23-Oct-19	08-Nov-19	0%	93			Formation and Internal Approva		
PWU-25-1330	Fully Execute the Contract (Sign by both Parties)	14	12-Nov-19	: 15-Nov-19	0%	93			Fully Execute the Contract (Sig	n by both Parties)	
Remaining Level of Actual Level of Effo				Pag	ge 1 of 4			TASK filter: WITH	OUT SVT ACTIVITIES.		

ndsor Line Replacem	ent			ENE Life Takes E	BRIDGE		Progress as of : 06-Se Printed on : 20-Se
rity ID	Activity Name	Original Duration	Start	Finish	Physical % Complete	Total 8 Float Q3 Q4 Q1	2019 2020 2021 202 1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1
7-18-600.2 Ma	ainline	818	11-Sep-18 A	29-Oct-21	A CONTRACTOR Y	0	7 29-Oct-21, 57
57-18-600.2.S1 N	PS 6 new mainline install	818	11-Sep-18 A	29-Oct-21		0	29-Oct-21, 57
57-18-600.2.S1.E	nvironment	550	11-Sep-18 A	28-Oct-20	N MARKET CONTROL	49	▼ 28-Oct-20, 57-18-600.2.S1.E_Environment
57-18-600.2.S1.E.E	ENV Environmental General ENV.001 Environmental Assessment	224	11-Sep-18 A	22-Jul-19 A	THE RESERVE OF THE PARTY OF THE	49	22Jul-19 A: 57-18-600 2.S1.E.ENV.001 Environmental Assessment
PEU-07-2010	Conduct Environmental Assessment	110	11-Sep-18 A	12-Feb-19 A	100%		Conduct Environmental Assessment
PEU-07-2020	Issue EA Report	114	13-Feb-19 A	22-Jul-19 A	100%		Issue EA Report
	ENV.002 Environmental - Archaeology	308	01-Apr-19 A	28-Oct-20	The same of	49	₹ 28-Oct-20, 57-18-600.2.S1.E.ENV.002 Environm
PEU-07-2030	Conduct Archeology Field Studies - NPS 6	150	01-Apr-19 A	30-Oct-19	0%	3	Conduct Archeology Field Studies - NPS 5
PRO-18-2480	'Archeological Field Studies - NPS 10 Abandonment	308	106-Aug-19 A	28-Oct-20	0%	49	- Archeological Field Studies - NPS 10 Abandonin
PEU-07-2040	Create Environmental Protection Plans	26	31-Jan-20 11-Sep-18 A	09-Mar-20 30-Sep-19	0%	41 24	Create Environmental Protection Plans 30-Sep-19: 57-18-600.2.S1.E.ENV.003 Environmental Survey & Studies
57-18-600.2.S1.E. PEU-07-2050	ENV.003 Environmental Survey & Studies Environmental Field Studies	274	11-Sep-18 A	30-Sep-19	89%	24	Environmental Field Studies
PEU-07-2060	Conduct Open Houses	2	20-Feb-19 A	21-Feb-19 A	100%		Conduct Open Houses
	ENV.004 Applications & Permitting	169	01-Jul-19 A	02-Mar-20		21	02-Mar-20, 57-18-600.2.S1.E.ENV.004 Applications & Permitting
PEU-07-2070	Permit Applications Submission	88	101-Jul-19 A	01-Nov-19	50%	21	Permit Applications Submission
PEU-07-2090	Complete Environmental permit-receiving	81	04-Nov-19	02-Mar-20	0%	21	Complete Environmental permit receiving
57-18-600.2.S1.M	Procurement - NPS 6	188	02-Aug-19 A	01-May-20	1000000000	13	7 01-May-20, 57-18-600.2.\$1.M Procurement - NPS 6 7:17-Mar-20, 57-18-800.2:\$1:M.MEP :Mainlins Procurement
	MLP Mainline Procurement	156	02-Aug-19 A 02-Aug-19 A	17-Mar-20	0%	10	Issue-the-Mainline Pipe Purchase Order
PMU-18-2080 PMU-18-2090	Issue the Mainline Pipe Purchase Order Pipe Forming	64	12-Sep-19	11-Sep-19 12-Dec-19	0%	- 10 10	Pipe Forming
PMU-18-2090 PMU-18-2100	Pipe Coating	38	12-Sep-19	19-Feb-20	0%	10	Pipe Coating
PMU-18-2100 PMU-18-2110	Ship NPS 6 Pipe to the Site	19	20-Feb-20	17-Mar-20	0%	10	Ship NPS 6 Pipe to the Site
	MMI Misc Material - NPS 6	161	11-Sep-19	01-May-20	0,0	13	7 01-May-20, 57-18-600.2.S1.M.MMI Misc Material - NPS 6
PMU-18-2470	Order Materials	10	18-Feb-20	02-Mar-20	0%	13	□ Order Materials
PMU-18-2480	Ship materials to the Site	43	03-Mar-20	.01-May-20	0%	13	Ship materials to the Site
57-18-600.2.S1.M.	MMI.1 NPS 6 Valves	141	11-Sep-19	02-Apr-20		33	▼ 02-Apr-20; 57-18-600.2.S1.M.MMI.1 NPS 6 Valves
PMU-18-2120	Develop Vendor's Valves Procurement Plan	14	11-Sep-19	30-Sep-19	0%	33	Develop Vendor's Valves Procurement Plan
PMU-18-2130	Ship the Valves to the Site	127	01-Oct-19 05-Mar-19 A	02-Apr-20 25-Nov-20	0%	33	Ship the Valves to the Site 25-Nov-20, 57-18-600, 2, S1, R Engineering - N
	RBB Detailed Design Engineering - NPS 6	421	05-Mar-19 A	25-Nov-20		148	25-Nov-20: 57-16-600.2.51.B.BBB: Detailed 0
57-18-600.2.S1.R.	RBB.002 Project Survey, Studies & Reports (Geotech, IN-THE-FIELD studies) - NPS 6	191	05-Mar-19 A	30-Jan-20	AND DESCRIPTION OF THE PERSON OF	17	▼ 30-Jan-20; 57-18-600.2.S1.R.RBB:002 Project Survey; Studies & Reports (
	LRBB.002.01 Geotech	191	05-Mar-19 A	30-Jan-20	ر مطرحاتها ا	17	30-Jan-20; 57-18-600.2.S1.R.RBB.002.01 Geotech
PRU-19-2160	Geotechnical Investigation - Preliminary Report	191	05-Mar-19 A		0%	10	Geotechnical Investigation - Preliminary Report
PRU-19-2170	Geotechnical Investigation - Final	41 128	02-Dec-19	:30-Jan-20	0% .	17	Geotechnical Investigation - Final 30-Aug-19-A, 57-18-600.2.S1-R-RBB.002.02 Design Survey
57-18-600,2.S1.R PRU-19-2180	RBB.002.02 Design Survey Conduct Pipeline Survey	128	06-Mar-19 A 06-Mar-19 A	30-Aug-19 A 30-Aug-19 A	100%		Conduct Pipeline Survey
PRU-19-2190	Conduct Pipeline Screey Conduct Pipeline Drafting	101	12-Apr-19 A	30-Aug-19 A	100%		Conduct Pipeline Drafting
	RBB.003 Detailed Design	421	16-Apr-19 A	25-Nov-20		148	25-Nov-20, 57-18-600.2.S1.R.RBB:003 Detail
PRU-18-2200	Issue Preliminary Design	21	16-Apr-19 A	14-May-19 A	100%		Issue Preliminary Design
PRU-18-2210	Issue Pipeline IFB1	32	15-May-19 A	28-Jun-19 A	100%		Issue Pipeline IFB1 Prepare Pipeline IFB2:
PRU-18-2220	Prepare Pipeline IFB2	65	:01-Jul-19 A	30-Sep-19	70%	0	Prepare Pipeline IFB2
PRU-MS-2230	Issue Pipeline IFB2	0	1	30-Sep-19	0%	0	sissue Pipeline IFB2
PRU-18-2240	. Conduct Pipeline Constructability and Operational Reviews	14	01-Oct-19	21-Oct-19 04-Nov-19	0%	0	Conduct Pipeline Constructability and Operational Reviews Draft the Comments for Pipeline IFC:
PAU-18-2250	Draft the Comments for Pipeline IFC	38	22-Oct-19 05-Nov-19	04-Nov-19 31-Dec-19	0% 1		Draft the Comments for Pipeline IFC: Design and Prepare Final IFC
PRU-18-2260 PRU-18-2270	Design and Prepare Final IFC Conduct Final Constructability Review	10	02-Nov-19	31-Dec-19	0%	0	Conduct Final Constructability Review
PRU-18-2270	Issue Final Crafting for Pipeline IFC	15	116-Jan-20	.05-Feb-20	0%	13	Issue Final Drafting for Pipeline IFC
PRU-18-2290	Review Final Engineering of Pipeline IFC	7	06-Feb-20	14-Feb-20	0%	13	B Review Final Engineering of Pipeline IFC
PRU-MS-2300	Issue Mainline IFC	0	1	14-Feb-20	0%	14	\$ Issue:Mainline:IFC
57-18-600,2,S1.R	RBB.003.01 Drill Design	105	14-May-19 A	17-Jan-20	N SECTION SECTION	26	▼ 17-Jan-20, 57-18-600.2.S1:R.RBB.003.01: Drill Design
PRU-19-2310	Conduct Trenchless Crossings Analyses	98	14-May-19 A	27-Sep-19	0%	26	Conduct Trenchless Crossings Analyses
PRU-19-2320	Conduct Trenchless Crossings Design	75	130-Sep-19	17-Jan-20	0%	26	Conduct Trenchless Crossings Design:
	.REB.003.02 Tile Design	141	04-May-20 04-May-20	25-Nov-20	001	148	25-Npv-20, 57-18-600.2.S1.R.RBB,003.02 Till Tilling Design
PRU-LOE-2320	Tiling Design RBB,003.03 AC Mitigation Design	168	28-Jun-19 A	25-Nov-20 05-Feb-20	0%	148	▼ 05-Feb-20, 57-18-600:2.\$1.R.RBB.003.03 AC Mitigation Design
PRUJ OF 2240	RBB.003,03 AC Mitigation Design Conduct AC Mitigation Study	168	28-Jun-19 A	05-Feb-20 05-Feb-20	0%	13	Conduct AC Mitigation Study
	RBB.003.04 CP Design	107	28-Jun-19 A			13	▼ 05-Feb-20, 57-18-600:2.\$1.R.RBB.003.04 CP Design
Remaining Level of					pe 2 of 4		TASK filter: WITHOUT SVT ACTIVITIES.

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PMU-18-2140 Mill Inspection Surport Systems of State S	ion Survey sign Survey sign Survey sett & Material Management - Mill Inspection 1- NPS 6 nangement - NPS 6 section - NPS 6 Surper - NPS 10 Abandonment Support - NPS 6 Install & NPS 10 Abandonment Support - NPS 6 support -	Original Duration 107 150 150 150 150 150 150 150 150 150 150	Start 28-Jun-19 A 16-Jan-20 16-Jan-20 16-Jan-20 16-Jan-20 11-Apr-20 11-Apr-20 11-Apr-20 16-Jan-20 16-Jan-20 18-Jan-20 18-Jan-20 18-Jan-20 18-Jan-20 18-Jan-20 18-Jan-20	Finish 05-Feb-20 19-Oct-20 19-Oct-20 23-Doc-19 23-Doc-19 23-Oct-21 29-Oct-21 29-Oct-21 31-Auc-21 19-Oct-20 31-Mar-20 16-Mar-20	Physical % Complete 0% 0% 0% 0% 0%	Total 8 Float Q3 13 13 13 10 10 10 0 0 0 0 0 0 0 0 0 0	8 Q4	Q1	2019 Q2 Q3			sign Calhodi	c Protectio	n 19-Oct-20 Conduct (Q1 Q2 0, 57-18-600 Construction	.2.S1.R.RBB n Survey ent & Materia	
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PMU-23-4060 Assemble the Line		34	03-Dec-19	22-Jan-20	0%	32				1	Asse	imble the Lin	ie Heaters			1 1 1 1	
PMU-23-4070 Test the Line Heat		27	23-Jan-20	02-Mar-20	0%	32						est the Line		111		1111	
PMU-23-4080 Deliver the Line H		5	03-Mar-20 04-Nov-19	09-Mar-20 06-Feb-20	0%	32						Deliver the L	ine Heaters	s to the S	site	LLL	
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PRU-18-4130	Draft the Comments for Mechanical IFC	22	04-Jul-19 A	05-Aug-19 A	100%			Draft the	Comments for Mechanical IFC		11111	
PRU-18-4140	Issue Electrical & Control IFC	122	04-Jul-19 A	27-Dec-19	0%	81			- Issue Electrical & Control IF	c	11111	
PRU-MS-4150	Conduct Operational Review for Mechanical IFC	0		18-Jul-19 A	100%			Conduct Opera	tional Review for Mechanical IFC		11111	
PRU-18-4160	Incorporate Vendor's Drawings into Mechanical IFC	25	06-Aug-19 A	10-Sep-19	0%	28			rporate Vendor's Drawings into Me			
PRU-18-4170	Conduct Constructability Review for Mechanical IFC	9	11-Sep-19	23-Sep-19	0% 1	28			Constructability Review for Meci			11
PRU-18-4180	Issue Final Drafting for Mechanical IFC	18	24-Sep-19	18-Oct-19	0%	28			Final Drafting for Mechanical IFC		17111	111
PRU-18-4190	Conduct Final Engineering Review for Mechanical IFC	10	21-Oct-19	,01-Nov-19	0%	28			duct Final Engineering Review for	Mechanical IFC	11111	11
PRU-MS-4200	Issue Stations IFC	0		01-Nov-19	0%	28		S Issu	e Stations IFC		ULLI	
57-18-600.4.P1.R.F PRU-LOE-4180	RBB.002 Station Survey and Drafting Stations Drafting	158	14-May-19 A 14-May-19 A	27-Dec-19	0%	81			27-Dec-19, 57-18-600.4 P1.R RE Stations Drafting	B.002 Station Survey a	of Urafting	-44
	RBB,003 Civil Design	100	22-Aug-19 A		U76	25			30-Jan-20, 57-18-600.4.P.1.R.	RBB 003 Civil Design		11
PRU-19-4210	Stations Topographical Survey	8	22-Aug-19 A		100%	20		Statione	Topographical Survey	Orra design:		
PRU-19-4220	Contractor On-boarding for Civil Design	28	05-Sep-19 A		0%	25			actor On boarding: for Civil Design		11111	11
PRU-19-4230	Stations Civil Grading Design	73	16-Oct-19	30-Jan-20	0%	25			Stations Civil Grading Design		11111	11
57-18-600.4.P1.V C	Construction Support - Stations	394	01-Apr-20	29-Oct-21	el distributions	0			11.		₹ 29-00	
57-18-600.4.P1.V.C	RS Construction Management - Stations	394	01-Apr-20	29-Oct-21		0					29-00	
57-18-600.4.P1.V.0 PWU-LOE-4250	CRS,007 Field Inspection - Stations Field Inspectors' Support - Stations	394	01-Apr-20 01-Apr-20	29-Oct-21 29-Oct-21	0% 14	0				11111111	29-Oc Field	
	Fried Inspectors: Support - Stations Construction - Stations	430	07-Feb-20	29-UCI-21 30-Sep-21	0% 77	0					30-Sep-2	
	Construction - Stations Of Station Contractor	430	07-Feb-20	30-Sep-21		A	****				30-Sep-2	
PWO-18-4210	Conduct Shop Fabrication- Stations Spools	50	07-Feb-20	20-Apr-20	0%	43			Conduct Shop Fabric	ation- Stations Speeds	00000	.,,
PWO-18-4220	Stations Construction (Planning Package)	133	01-Apr-20	13-Oct-20	0%	16				ions Construction (Plann	ing Package)	
POU-18-4250	Stations Commissioning	16	07-Oct-20	26-Oct-20	0%	20				tions Commissioning		
PWO-18-4230	Stations Abandonment (Planning Package)	63	02-Jul-21	30-Sep-21	0%	4					Stations	Abanı
	NDT Non Destructive Examination - Stations	120	21-Apr-20	13-Oct-20	100	16			13.0	ci-20, 57-18-600.4.P1.W	INDY Non De	struct
PWU-LOE-4240	Conduct Stations X-Ray Testing	120	21-Apr-20	13-Oct-20	0%	16				duct Stations X-Ray Test ct-20, 57-18-600,4,P1,W		111
57-18-600.4.P1.W.V PWO-18-4250	WMI Misc Construction - Stations Stations Electrical Install (Planning Package)	115	23-Apr-20 23-Apr-20	07-Oct-20 07-Oct-20	0%	16				ct-20, 5/-18-500,4.P1.W pns Electrical Install (Pla		
STATE OF THE OWNER, WHEN PERSON NAMED IN		342	18-Feb-20	30-Jun-21	0.78	10			Ştajı		Jun-21, 57-18-	
7-18-600.9 Se		342	18-Feb-20	30-Jun-21		0	4-4-4-4-4-4-4-4		<u> </u>		Jun-21, 57-18-	
67-18-600.9.11 W	Indsor Line Services Procurement - Services	75	18-Feb-20	03-Jun-20		0			03-Jun-20, 57-18	600.9.Y1.M Procuremen		000.5
	AMI Misc Material - Services	175	18-Feb-20	03-Jun-20		14				600.9.Y1.M.MMI Misc N		ices
PMU-18-9110	Develop Vendor's Procurement Plan	15	18-Feb-20	09-Mar-20	0%	14			Develop Veridor's Procure	ment Plan		
PMU-18-9120	Deliver services material to the site	60	10-Mar-20	03-Jun-20	0%	14			Deliver services :	naterial to the site	1111	
57-18-600.9.Y1.W C	Construction - Services	253	25-Jun-20	30-Jun-21	A STATE OF THE STATE OF	0			<u> </u>	30-	Jun-21, 57-18-	600.9
57-18-600.9.Y1.W.0 PWO-18-9020	Install Services - 2020 (Planning Package)	108	25-Jun-20 25-Jun-20	30-Jun-21 30-Nov-20	0%	0				Install Services - 2020 (Jun-21, 57-18-	500.9
PWO-18-9040	Install Services - 2020 (Planning Package)	62	01-Apr-21	30-Nov-20 30-Jun-21	0%	0				Install Services : 2020 (I		
57-18-600.9.Y1.W.0	102 Alliance Partner	251	25-Jun-20	28-Jun-21	076	9			1 1 1 1 1 1 	28-	lin-21:57.18.0	enn a
PWO-18-9050	Alliance Partner Services Install - 2020 (Planning Package)	108	25-Jun-20	30-Nov-20	0%	85				Alliance Partner Service	s Install - 2020	0 (Plan
PWO-18-9060	Alliance Partner Services Install - 2021 (Planning Package)	60	01-Apr-21	28-Jun-21	0%	2				Allis		
7-18-600.3 Po	est Construction	311	02-Nov-20	31-Jan-22	The second second	0			111111111 11		11111	7 31
PCU-01-3010	Hand-Off Project Documentation	16	101-Oct-21	25-Oct-21	0%	4					Hand-0	Of Pr
CU-01-3020	, Close Out Contractor's Agreement	15	01-Nov-21	22-Nov-21	0%	0					Cibe	sé Qu
7-18-600.3.1 Env		311	02-Nov-20	31-Jan-22		0			T	1 1 1 1 1 1 1 1		7 31
PCU-03-3030	Submit Post Construction Environmental Report to OEB	61	02-Nov-20	29-Jan-21	0%	202				Submit Post Cons		
PCU-03-3040	Submit Post Construction Final Environmental Report to OEB	48	23-Nov-21	31-Jan-22	0%							- St
Remaining Level of Actual Level of Effor			-	Pag	pe 4 of 4			TASK filter: WITHOUT	SVT ACTIVITIES.	*		_