

Diane Roy Vice President, Regulatory Affairs

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CONFIDENTIAL

November 10, 2021

British Columbia Utilities Commission Suite 410, 900 Howe Street Vancouver, B.C. V6Z 2N3

Attention: Mr. Patrick Wruck, Commission Secretary

Dear Mr. Wruck:

Re: FortisBC Energy Inc. (FEI)

Application for a Certificate of Public Convenience and Necessity (CPCN) for the Tilbury Liquefied Natural Gas (LNG) Storage expansion (TLSE) Project (Application)

Response to the British Columbia Utilities Commission (BCUC) CONFIDENTIAL Information Request (IR) No. 2

On December 29, 2021, FEI filed the Application referenced above. In accordance with the regulatory timetable established in Order G-185-21 for the review of the Application, FEI respectfully submits the attached response to BCUC Confidential IR No. 2.

Treatment of Confidential Material

Due to the sensitive and confidential nature of some of the information in the Application, FEI is filing some responses to information requests on a confidential basis pursuant to Section 18 of the BCUC's Rules of Practice and Procedure regarding confidential documents, as set out in Order G-15-19. FEI's treatment of security-sensitive and commercially-sensitive information in these responses is consistent with BCUC Order G-161-21 and the Revised Confidential Application (Exhibit B-1-3). All of that information will be available to interveners who have previously signed and provided the BCUC Confidentiality Declaration and Undertaking form (Undertaking) and the revised non-disclosure agreement (NDA). In the case of interveners who have only provided the signed Undertaking, they will receive all commercially-sensitive information only.

While some parties submitted information requests on a confidential basis, in order to maximize the amount of information on the public record, FEI has reviewed the preambles, questions, responses, and related attachments and in instances where confidential

November 10, 2021 British Columbia Utilities Commission Tilbury LNG Expansion Project CPCN – FEI Response to BCUC CONFIDENTIAL IR1 Page 2



information is not disclosed, FEI has filed the information publicly, redacting all confidential information (both commercially-sensitive and security-sensitive). In cases where the information requests were submitted publicly, if the responses disclose security-sensitive or commercially-sensitive confidential information, FEI has redacted those portions for the public record.

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Sincerely,

FORTISBC ENERGY INC.

Original signed:

Diane Roy

Attachments



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FortisBC Energy Inc. (FEI or the Company)

Application for a Certificate of Public Convenience and Necessity (CPCN) for the Tilbury Liquefied Natural Gas (LNG) Storage Expansion (TLSE) Project (Application)

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2	A. PROJECT NEED	
3	B. PROJECT DESCRIPTION	
4	C. FINANCIAL ANALYSIS14	
5		
6	A. PROJECT NEED	
7	16.0 Reference: PROJECT NEED	
8	Exhibit B-16, Confidential BCUC IR 1.1, 1.2	
9	T-South System Accessibility	
10 11	In response to Confidential British Columbia Utilities Commission (BCUC) Information Request (IR) 1.1, FortisBC (FEI) stated:	
12 13 14 15 16 17 18 19 20 21 22 23		
24 25 26		
27	In response to Confidential BCUC IR 1.2, FEI stated:	

FEI does not have access to the information required to describe the accessibility characteristics of the entire T-South system in detail. However, based on publicly available information from the Transportation Safety Board of Canada Pipeline Transportation Safety Investigation Report P18H0088, the T-South system consists of a nominal pipe size (NPS) 36 L2 natural gas pipeline and a NPS 30 L1 natural gas pipeline that extends 917 km from Compressor Station 2 to the Huntingdon Meter Station in Huntingdon, BC, as shown in Figure 1 below. The T-South system spans almost the entire length of the Province of BC in a north to



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1	south fashion, passing through mountainous and forested areas that are sparsely
2	populated
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- 16.1 Please explain whether FEI has sought information from Westcoast regarding the accessibility characteristics of the T-South system in order to better understand the likelihood of a pipeline rupture occurring in a relatively accessible or inaccessible location. If not, why not.
 - 16.1.1 Please discuss whether FEI considers this information is relevant for understanding the need for the Tilbury LNG Storage Expansion (TLSE) Project.

Response:

FEI has not directly sought information from Westcoast regarding the accessibility characteristics of the T-South system. However, for many years, FEI has operated approximately 40 transmission pipeline taps which interconnect with the Westcoast system at various locations along its length, spanning the province from Fort Nelson to Abbotsford. As such, FEI is well familiar with the topography of the province, the location and configuration of Westcoast's T-South system, and the associated response time and access challenges.

- As discussed in the response to BCUC IR2 78.1, the regasification constraint at Tilbury (150 MMcf/day) means that the Lower Mainland system would currently experience widespread load loss on the very first day of a T-South no-flow event that occurs during winter. Regardless of the location of a rupture, there is a very high likelihood that a significant integrity event on T-South could not be resolved fast enough to avoid FEI having to pre-emptively begin shutting down the Lower Mainland system.
 - The duration of the potential no-flow event only becomes a factor once it is hypothetically assumed the existing 150 MMcf/day regasification constraint at the Tilbury Base Plant facility is rectified. Increasing the size of the regasification capacity on its own without addressing the size of the Base Plant tank is not practical, and there would currently be insufficient volume to sustain the necessary rate of regasification / send out to support Lower Mainland load for any appreciable length of time (please also refer to the response to BCUC IR2 78.1). That is, the question of the duration of an outage on the T-South system can be conceptualized as more an issue about how large a new tank (with sufficient associated regasification capacity) needs to be in order to bridge a no-flow event without significant loss of load.
- The factors that can influence the length of time of a no-flow or reduced flow event include, but are far broader than, the relative accessibility of a failure site. As provided in the responses to BCUC IR1 4.3 and BCUC IR2 72.1, and JANA's responses to BCUC IR2 68.8 and 68.10, an



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extended period of reduced pipeline capacity can result from other matters such as third-party investigations, regulatory directives, and engineering assessments – irrespective of a failure location and its access characteristics.

16.2 Please further explain the implications of a pipeline rupture incident occurring a long distance from the primary locations of Enbridge's technical resources and gas control centre, with respect to the response time during such an incident.

Response:

FEI expects that the distance from the primary locations of an operator's technical resources would impact an operator's response time. For example, the total time required to perform any required in-person assessments by technical resources would be extended by the time required to plan and undertake travel to the incident site.



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1 B. PROJECT DESCRIPTION

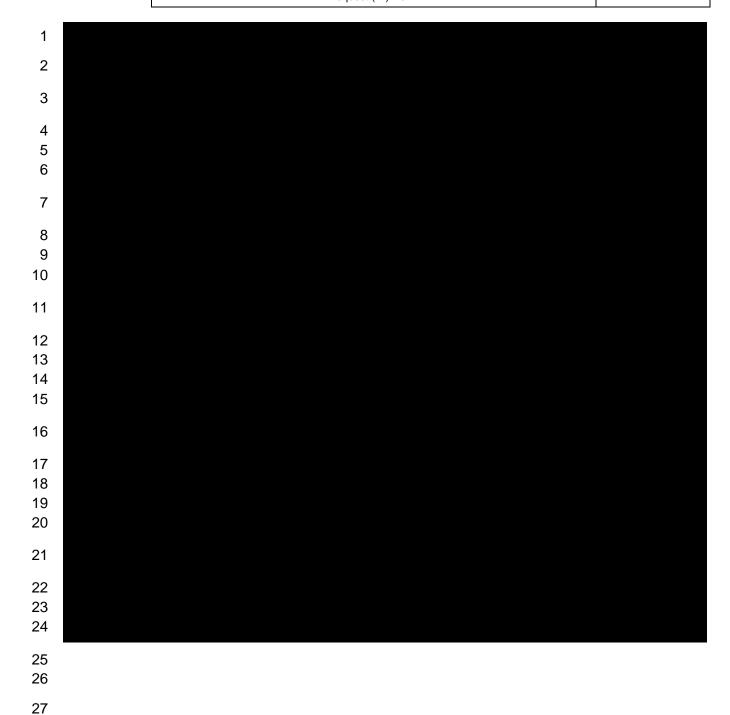
2	17.0	Reference:	PROJECT DESCRIPTION
3			Exhibit B-16-2, BCUC IR 2.2 – Attachment 2.2,
			BCUC IR
5			8.2
6			Equipment Sizing
7 8 9 10		design comp	to BCUC IR 8.2, FEI submitted a table which provides a breakdown of the onents that cannot be retrofitted later and that have been included within the t design to realize the future benefits of the Liquefaction Facility. This table is below:
11			
12 13			to BCUC IR 2.2, FEI provided piping and instrumentation diagrams (PID) for
13		the ILSE PI	oject, including
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17.2 Please confirm that all design components that cannot be retrofitted later have been included in the table reproduced above, as well as the incremental costs to include these design components in the TLSE Project.

4 5 Response:

- 6 Confirmed. FEI has provided its best estimate at this stage of the Project for all of these incremental costs.
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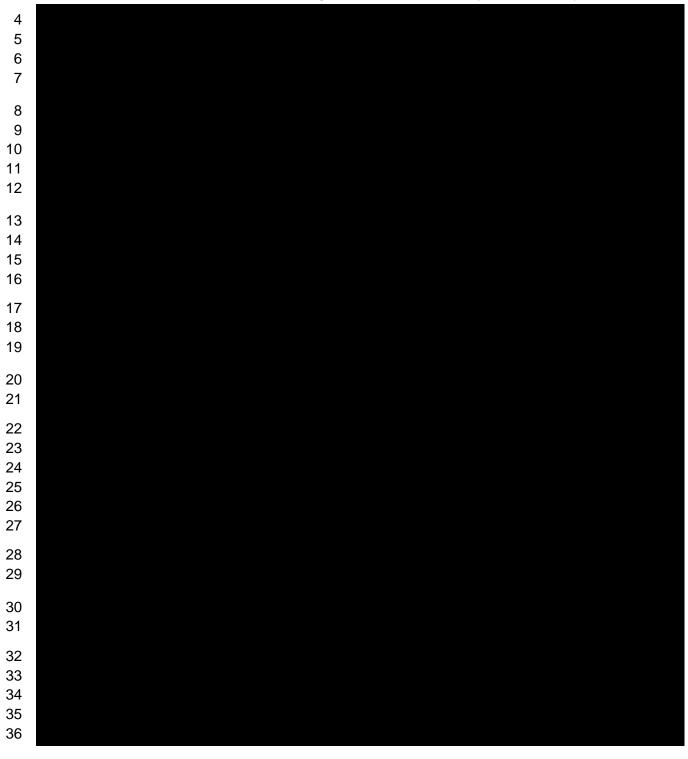
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1 18.0 Reference: PROJECT DESCRIPTION

2 Exhibit B-16-2, BCUC IR 9.3, Attachment 9.3, pp. 6, 16

Geotechnical Design Criteria for LNG Projects at Tilbury Site





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19.0 Reference: PROJECT DESCRIPTION

2 Exhibit B-16-2, BCUC Confidential IR 11.1

3 Preliminary QRA

In response to BCUC Confidential IR 11.1, FEI stated:





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1 C. FINANCIAL ANAL	YSIS
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2	20.0	Refere	ence:	Partners in Performance (PiP) Estimate of O&M Costs
3				Exhibit B-1-1 (Confidential Application), Appendix N, p. 2
4				O&M Cost Estimate
5 6				I, the report provided by PiP states on page 2: "This estimate is based on a rear of operation (typically years 5-20)."
7 8 9		20.1	service	dering that the proposed 3 Bcf LNG tank is expected to have a 60-year e life, please explain why a steady-state of operation is 15 years (i.e. from 5-20) and not longer.
11	Respo	onse:		
12 13 14 15	Bcf Ll estima	NG tank ate does	is und not ac	ent referenced in the preamble is highlighting that PiP assumes the new 3 er the steady-state operation for the associated O&M cost estimate. The count for variation in O&M costs that may occur during the ramp-up or startst five years of new facility operation).
16 17 18 19 20 21	for a r 20 yea as suc to be	naximur ars. The ch, for th under s	m of 20 ere is no e purpo steady-s	e of 5 to 20 years made by PiP does not mean the new LNG tank can operate years, nor are they suggesting it cannot operate under a steady-state after of evidence to suggest the operation cannot be steady-state after 20 years; see of the financial analysis, FEI has assumed the new LNG tank will continue state operation beyond the 20 years, with O&M cost estimates escalated tinflation (as discussed in Section 6.3 of the Application).



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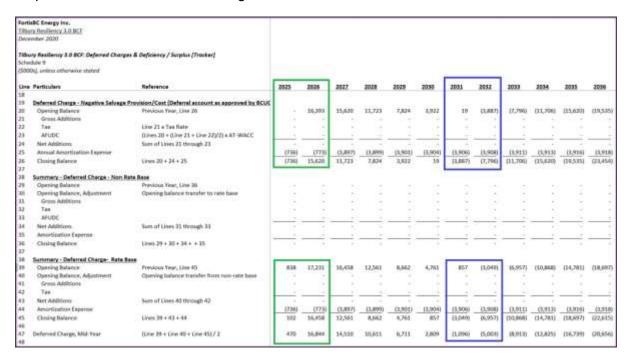
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1 21.0 Reference: Financial Schedules

2 Exhibit B-1-1, Appendix M-1, Schedule 9

3 Deferred Charges

Schedule 9 in Appendix M-1 to the Confidential Application shows the deficiency and surplus balances for deferred charges.



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21.1 Please confirm, or explain otherwise, that the increase in opening balances between year 2025 to year 2026 (Line 20 and Line 39) is due to the demolition of the Tilbury Base Plant occurring in 2025.

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Response:

While responding to this IR, FEI discovered an Excel formula error on Schedule 9 of Confidential Appendix M-1. The 2025 opening balance on Line 39 should have been zero instead of \$0.838 million. The error is relatively minor with a revised levelized delivery rate impact over the 67-year analysis period estimated at 6.66 percent instead of 6.67 percent. The estimated delivery rate impact in 2027, when all assets enter FEI's rate base, remains at 9.07 percent when rounded to two decimal places. Please refer to Confidential Attachment 21.1 for the revised Schedule 9 of Confidential Appendix M-1. Please also refer to the reproduced screenshot below as referenced in the preamble, but reflecting the revised Schedule 9 of Confidential Appendix M-1.



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Zilla Zilla Zilla Zilla Silla	vedule 9	rred Charges & Deliciency I Surplus [Tra												
180	00cl unless otherwise stated													
ine	Particulars	Reference	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
18		and an experiment the property and an experiment of the property of the proper												
19 20		Salvage Provision/Cost (Defenal accoun		46.666	5.620	44 999	4000	0.000	- 20	10 000	(7,796)	444 TONOS	HE 2550	140 (1985)
20	Opening Balance Gross Additions	Previous Year, Line 26		16,393	75.620	11,723	7,824	3,322	19	(3,867)	17,7561	(11,106)	(15,620)	(19,535)
22	Gross Maditions Tax	Line 21st Tay Rate			- 5	1.5			- 88	- 5	1		- 3	
23	AFUDC	Lines 20 + Line 21+ Line 22l/2) x AT-WACC					. 0		- 15	0	-		- 2	- 3
	Net Additions		_	_			_	_		-	_	_	_	_
24 25	Net Additions Annual Amortication Expense	Burn of Lines 21 through 23	(736)	17700	(3.897)	(3,899)	(3.901)	12 cnc	(3,906)	12 0001	(3,911)	(3,913)	(2.040)	12 040
		noute representative autor		(773)	-	AND DESCRIPTION OF THE PERSON	megating-policy.	- Angele Company	inquisionalis.	13,908	the same of the sa	Laboration of the laboration o	(3,916)	13,918
26 27	ClosingBalance	Lines 20 + 24 + 25	[736]	15,620	11,723	7,824	3,922	19	(3,887)	(7,796)	(11,706)	(15,620)	(19,535)	(23,454)
28	Summary - Deterred Charge	Non Rate Base												
29	Opening Balance	Previous Year, Line 36				0.00	2.0	1.70	1.0				2.0	
30	Opening Balance, Adjustment	Opening belance transfer to rate base	-		-	1.4	+	-		-				-
31	Gross Additions	CHOROCOPING CHICADOLOGICA COLLO	-	- 3	-	19	+	-	2.4	-	-	-		- 2
32	Tan		-	- 3	-	19	+	-	199	-	-	-	-	- 3
33	AFUDC											-	_	:
34	Net Additions	Sum of Lines 31 through 33	-	-	-	-			-			-	-	-
35	Amortization Expense							-						
36 37	Closing Balance	Lines 29 + 30 + 34 + + 35	-	- 8			- 3	÷		-		- 5	*:	8
38	Summary - Deferred Charge	Rate Base												
39	Opening Balance	Previous Year, Line 45	-	16,393	15.820	11,723	7.824	3.922	19	(3,887)	(7,796)	(11,706)	(15,620)	(19.535)
40	Opening Balance, Adjustment	Opening balance transfer from non-tate base	-	-	-	-	-	-	- 12		-	-	-	
41	Gross Additions							1.00	7.6					
42	Tax	CHO ME DINO 100-0							S. 33.		. (*)	- 62	. 9	
43	Net Additions	Sum of Linex 40 through 42	-	-			-		-		+			-
44	Amortication Expense		(736)	£7730	(3,897).	(3,899)	(3,301)	(3,904)	(3,306)	(3,908)	(3,911)	(3,913)	(3,516)	(3,918)
45	ClosingBalance	Lines 39 + 43 + 44	(736)	15,620	11,723	7,824	3.922	19	(3.887)	(7.796)	(11,706)	(15,620)	(19.535)	(23,454)
46														
47 48	Defened Charge, Mid-Year	Line 39 + Line 40 + Line 45) / 2	(368)	16,006	13,671	9,773	5,873	1,971	(1,534)	15,841	(9,751)	(13,663)	(17,577)	(21,494)

For clarity, Lines 20 to 26 of Schedule 9 show the continuity of the Negative Salvage deferral account as approved by Order G-44-12, while Lines 39 to 45 show the aggregate continuity of all rate base deferral accounts impacted by the proposed TLSE Project which includes the proposed Application and Preliminary Stage Development Costs deferral account (i.e., Lines 2 to 17 of Schedule 9) and the aforementioned Negative Salvage deferral account. FEI notes, starting from 2025, Lines 20 to 26 and Lines 39 to 45 are the same under the revised Schedule 9 (as shown in the screenshot above). This is because, as shown in the financial analysis, the Application and Preliminary Stage Development Costs deferral account would be fully amortized at the end of 2024 and, as such, the opening balance for 2025 on Line 39 is zero.

For the Negative Salvage deferral account, the 2026 opening balance of \$16.393 million shown on Line 20 is the combination of the demolition costs of \$17.129 million in as-spent dollars as shown in Table 6-2 of the Application (Line 6, Column 5) and the 2025 ending credit balance of \$0.736 million (i.e., \$17.129 million - \$0.736 million = \$16.393 million). FEI notes, similar to capital expenditures for CPCNs, the demolition costs are shown to enter the deferral account on January 1 as an opening balance adjustment³ following the completion of the demolition (i.e., the Base Plant demolition is estimated to be complete in 2025 therefore it is shown as an opening balance

The proposed amortization period is three years from 2022 to 2024. However, due to the timing of the regulatory process, FEI will not receive a BCUC Decision on the TLSE Project before the end of 2021. The proposed Application and Preliminary Stage Development Costs deferral account would then shift by one year with amortization starting on January 1, 2023.

FEI did not have a separate Opening Balance Adjustment line for its Negative Salvage Provision deferral account in its financial schedules; therefore, this amount was instead shown as an Opening Balance.



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adjustment to the deferral account in 2026). The \$0.736 million credit balance in 2025 is due to the approved annual salvage provision for the ground improvement assets under Asset Account 44200 LNG Gas Structures & Improvements, and the assets for the regasification as well as the auxiliary system under Asset Account 44841 LNG Send Out Equipment Tilbury. The currently approved negative salvage provision rates for these two accounts are 0.68 percent and 0.28 percent, respectively, as per FEI's 2017 Depreciation Study approved as part of FEI's 2020-2024 MRP Decision⁴.

21.2 Please explain why the deferral account balances (Line 20, Line 26, Line 39, and Line 45) have negative values beginning in 2031.

Response:

Please refer to the response to BCUC Confidential IR2 21.1 for the revised Schedule 9 of Confidential Appendix M-1.

FEI notes the Negative Salvage deferral account was directed by the BCUC as part of Order G-44-12 which captures both the actual salvage costs (or removal/demolition costs) and the annual net negative salvage provision. As such, the Negative Salvage deferral account shown in Schedule 9 of Confidential Appendix M-1 captures the debit of salvage costs (i.e., the cost of demolition as discussed in BCUC Confidential IR2 21.1) and the credit of the annual negative salvage provision (shown as annual amortization expense of the deferral account on Lines 25 and 44). The annual negative salvage provision is calculated based on the opening balance of the plant-in-service in each year and the approved negative salvage rate. Given there is no other debit of salvage costs (or demolition costs) besides those in year 2025, the annual negative salvage provision as a credit to the deferral account will eventually result in the balance of the deferral account being in an overall credit position (i.e., negative value). This occurs in year 2031 for the purpose of the incremental financial analysis for the TLSE Project.

⁴ Order G-165-20.



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1	22.0	Reference:	Escalation Costs
2			Exhibit B-1-1, Section 5.3.1.1, p. 125;
3 4 5 6 7 8 9			Exhibit B-1-1, Appendix K-3 – Validation Estimating Escalation Report, p. 8; IHS Markit Research & Analysis Article; Terasen Gas (Vancouver Island) Inc Mt. Hayes Liquefied Natural Gas Storage Project CPCN Application and Terasen Gas Inc. Storage and Delivery Services Agreement, Exhibit B-4-4, responses to BCOAPO Information Request No. 1, pp. 16 – 17 (TGVI Mt. Hayes CPCN Application Responses to BCOAPO) ⁵
10			Commodity Price Impact
11 12 13 14 15 16 17 18			
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https://www.bcuc.com/Documents/Proceedings/2007/DOC 16174 B-4-4 Resps BCOAPO IR-1.pdf.



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A recent article from IHS Markit Research & Analysis, *Commodity prices rise amid intensifying supply pressures in January*, posted on February 15, 2021 states⁶:

8 9 10 The latest Price & Supply Monitor - a monthly report designed to track global commodity price pressures and supply shortages - saw higher prices across most of the major commodities in January.

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22.2 Please discuss whether the higher prices in major commodities noted by IHS Markit in their monthly report in February 2021, continues to fall in the 'significant range' referenced in IR 3.1.

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Response:

Confirmed, the figures in the February report fall within the significant range.

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See IHS Markit PMI Research & Analysis, *retrieved from* https://ihsmarkit.com/research-analysis/commodity-prices-rise-amid-intensifying-supply-pressures-in-january.html.



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1		On page 125 of the Confidential Application, FEI states:
2 3 4 5 6 7		
8		On page 16 of the TGVI Mt. Hayes CPCN Application Responses to BCOAPO, FEI stated:
9		The 40% increase in costs of a 1.0 Bcf storage plant from 2004 to 2007
10		[]
11 12		are attributed to significant increases and future cost uncertainty in the direct costs of construction, including:
13		• the price of raw materials such as nickel, copper and steel
14 15 16 17		On page 17 of the TGVI Mt. Hayes CPCN Application Responses to BCOAPO, FEI provided data showing that nickel and steel prices, significant components of LNG storage tanks, had increased by 676 percent and 69 percent [from 2007 prices] over 2002 prices, respectively.
18 19 20 21 22		
23	Resp	onse:
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FortisBC Energy Inc. (FEI or the Company) Application for a Certificate of Public Convenience and Necessity (CPCN) for the Tilbury Liquefied Natural Gas (LNG) Storage Expansion (TLSE) Project (Application) Response to British Columbia Utilities Commission (BCUC) CONFIDENTIAL Information Request (IR) No. 2 Page 21



Application for a Certificate of Public Convenience and Necessity (CPCN) for the Tilbury Liquefied Natural Gas (LNG) Storage Expansion (TLSE) Project (Application)

Submission Date: November 10, 2021

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