

Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty

DG 20-105
Distribution Service Rate Case

OCA Data Requests - Set 4

Date Request Received: 12/17/20
Request No. OCA 4-17

Date of Response: 1/4/21
Respondent: Francisco C. DaFonte
Steven Mullen

REQUEST:

Reference the Supplemental Direct Testimony filed by the Company on November 20, 2020 to recover Granite Bridge Project development costs and enter into a firm transportation contract with Tennessee for 40,000 Dth per day with a Dracut, MA receipt point:

- a. Please provide a detailed breakdown of the \$7.5 million in costs the Company is requesting recovery, also identify which cost would have been capitalized if the Granite Bridge Project was placed in service; and
- b. In comparing the costs of the Granite Bridge Project and the Tennessee FT arrangement, what did the Company assume with respect to the supplier reservation/commodity costs that would be required under a gas supply arrangement with a Dracut receipt point? Include all analyses/workpaper supporting the Company's gas supply cost assumptions.

RESPONSE:

- a. Please see Attachment OCA 4-17.a.xlsx. All costs would have been capitalized if the Granite Bridge Project was placed in service.
- b. The Company did not make any comparison of gas supply purchases at Dracut under the TGP FT Agreement to gas supply purchases at the interconnect of the proposed Granite Bridge Pipeline with the Joint Facilities of Portland Natural Gas Transmission System and Maritimes and Northeast Pipeline (the "Joint Facilities"). This is because spot purchases at Dracut would effectively be priced the same as spot purchases into the proposed Granite Bridge Pipeline since both delivery points are at the terminus of the Joint Facilities and have access to the same upstream supply sources.

The meaningful economic comparison is the annual fixed costs of the proposed Granite Bridge Pipeline and the TGP FT Agreement. While the estimated levelized annual cost

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for the proposed Granite Bridge Pipeline was approximately \$17.6 million¹, the levelized annual cost of the TGP FT Agreement is approximately \$2 million.

¹ See footnote 17 at Bates 21 in the Supplemental Direct Testimony of Francisco C. DaFonte, William R. Killeen, and Steven E. Mullen in the current docket.

WS Job Number	WS Job Name	WS Project	Nu Proj	GL Posting Date	Journal Entry	Transaction Amount	Vendor ID	Vendor Name	Transaction Description	Cost Element	Cost Code String	Cost Code Description	Divisions	Account Number	String	Account Description	Actual Completion Date	Transfer to Plant	Item Number	Job TRX Number	Document Source	TRX Source	Document Number	Document Date	Batch Source	Transaction Date	Purchase Order Number	Modified User ID	WS Inactive	
8840-EN1600069	PE-LNG EPPIN 8840-LNG-PE PRE			10/5/2018	1064079	32,033.87	8840-ANGARO	ANALYSIS GROUP, INC	ANALYSIS GROUP, INC	5	18300-0000-0005-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900				149641	PM	PMTRX00010834	886444		9/11/2018	PM, TrxEnt		1/1/1900		
8840-EN1600068	Re: 101 Later 8840-LATERAL PRE			10/5/2018	1064079			ANALYSIS GROUP, INC	ANALYSIS GROUP, INC	5	18300-0000-0005-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900				149641	PM	PMTRX00010834			9/11/2018	PM, TrxEnt		1/1/1900		
8840-EN1600069	PE-LNG EPPIN 8840-LNG-PE PRE			11/29/2018	1092804	8,761.25	8840-ANGARO	ANALYSIS GROUP, INC	ANALYSIS GROUP, INC	4	18300-0000-0004-0000	You - Prelim Survey & Investigt	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900				152853	PM	PMTRX00010489	888576		11/9/2018	PM, TrxEnt		1/1/1900		
8840-EN1600068	Re: 101 Later 8840-LATERAL PRE			11/29/2018	1092804			ANALYSIS GROUP, INC	ANALYSIS GROUP, INC	4	18300-0000-0004-0000	You - Prelim Survey & Investigt	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900				152853	PM	PMTRX00010489			11/9/2018	PM, TrxEnt		1/1/1900		
8840-EN1600068	Re: 101 Later 8840-LATERAL PRE			11/29/2018	1092805	7,818.25	8840-ANGARO	ANALYSIS GROUP, INC	ANALYSIS GROUP, INC	4	18300-0000-0004-0000	You - Prelim Survey & Investigt	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900				152855	PM	PMTRX00010489	888576		11/9/2018	PM, TrxEnt		1/1/1900		
8840-EN1600068	Re: 101 Later 8840-LATERAL PRE			11/29/2018	1092805			ANALYSIS GROUP, INC	ANALYSIS GROUP, INC	4	18300-0000-0004-0000	You - Prelim Survey & Investigt	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900				152855	PM	PMTRX00010489			11/9/2018	PM, TrxEnt		1/1/1900		
8840-EN1600069	PE-LNG EPPIN 8840-LNG-PE PRE			3/20/2019	1155744	6,311.75	8840-ANGARO	ANALYSIS GROUP, INC	ANALYSIS GROUP, INC	5	18300-0000-0005-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900				160364	PM	PMTRX00011614	892803		3/19/2019	PM, TrxEnt		1/1/1900		
8840-EN1600068	Re: 101 Later 8840-LATERAL PRE			3/20/2019	1155744			ANALYSIS GROUP, INC	ANALYSIS GROUP, INC	5	18300-0000-0005-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900				160364	PM	PMTRX00011614			3/19/2019	PM, TrxEnt		1/1/1900		
8840-EN1600069	PE-LNG EPPIN 8840-LNG-PE PRE			5/24/2019	1183971	15,487.25	8840-ANGARO	ANALYSIS GROUP, INC	ANALYSIS GROUP, INC	5	18300-0000-0005-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900				175661	PM	PMTRX00011823	893800		4/23/2019	PM, TrxEnt		1/1/1900		
8840-EN1600068	Re: 101 Later 8840-LATERAL PRE			5/24/2019	1183971			ANALYSIS GROUP, INC	ANALYSIS GROUP, INC	5	18300-0000-0005-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900				175661	PM	PMTRX00011823			4/23/2019	PM, TrxEnt		1/1/1900		
8840-EN1600069	PE-LNG EPPIN 8840-LNG-PE PRE			7/25/2019	1217479	10,183.53	8840-ANGARO	ANALYSIS GROUP, INC	ANALYSIS GROUP, INC	4	18300-0000-0004-0000	You - Prelim Survey & Investigt	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900				284400	PM	PMTRX00012086	326068		7/30/2019	PM, TrxEnt		1/1/1900		
8840-EN1600068	Re: 101 Later 8840-LATERAL PRE			7/25/2019	1217479			ANALYSIS GROUP, INC	ANALYSIS GROUP, INC	4	18300-0000-0004-0000	You - Prelim Survey & Investigt	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900				284400	PM	PMTRX00012086			7/30/2019	PM, TrxEnt		1/1/1900		
8840-EN1600068	Re: 101 Later 8840-LATERAL PRE			8/20/2019	1229641	1,539.13	8840-ANGARO	ANALYSIS GROUP, INC	ANALYSIS GROUP, INC	4	18300-0000-0004-0000	You - Prelim Survey & Investigt	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900				285513	PM	PMTRX00012168	896213		7/25/2019	PM, TrxEnt		1/1/1900		
8840-EN1600069	PE-LNG EPPIN 8840-LNG-PE PRE			10/24/2019	1270561	16,743.00	8840-ANGARO	ANALYSIS GROUP, INC	ANALYSIS GROUP, INC	5	18300-0000-0005-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900				299436	PM	PMTRX00012491	895404		6/30/2019	PM, TrxEnt		1/1/1900		
8840-EN1600068	Re: 101 Later 8840-LATERAL PRE			10/24/2019	1270561			ANALYSIS GROUP, INC	ANALYSIS GROUP, INC	5	18300-0000-0005-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900				299436	PM	PMTRX00012491			6/30/2019	PM, TrxEnt		1/1/1900		
8840-EN1600068	Re: 101 Later 8840-LATERAL PRE			2/13/2020	1332537	-10,183.52	8840-ANGARO	ANALYSIS GROUP, INC	ANALYSIS GROUP, INC	4	18300-0000-0004-0000	You - Prelim Survey & Investigt	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900				299436	PM	PMTRX00013027	892628-CR		2/11/2020	PM, TrxEnt		1/1/1900		
8840-EN1600069	PE-LNG EPPIN 8840-LNG-PE PRE			10/31/2017	860532	6,981.24	8840-ANGARO	BEALS & THOMAS, INC	BEALS & THOMAS, INC	5	18300-0000-0005-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900				127241	PM	PMTRX00009220	2935-00-1		10/6/2017	PM, TrxEnt		1/1/1900		
8840-EN1600069	PE-LNG EPPIN 8840-LNG-PE PRE			11/20/2017	870305	2,105.00	8840-ANGARO	BEALS & THOMAS, INC	BEALS & THOMAS, INC	4	18300-0000-0004-0000	You - Prelim Survey & Investigt	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900				128580	PM	PMTRX00009313	2935-01-1		10/27/2017	PM, TrxEnt		1/1/1900		
8840-EN1600068	Re: 101 Later 8840-LATERAL PRE			11/9/2018	910193	7,602.33	8840-ANGARO	BEALS & THOMAS, INC	BEALS & THOMAS, INC	4	18300-0000-0004-0000	You - Prelim Survey & Investigt	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900				131601	PM	PMTRX00009313	2935-01-2		12/1/2017	PM, TrxEnt		1/1/1900		
8840-EN1600069	PE-LNG EPPIN 8840-LNG-PE PRE			2/20/2018	922304	1,080.00	8840-ANGARO	BEALS & THOMAS, INC	BEALS & THOMAS, INC	4	18300-0000-0004-0000	You - Prelim Survey & Investigt	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900				134248	PM	PMTRX00009714	2935-01-3		12/29/2017	PM, TrxEnt		1/1/1900		
8840-EN1600069	PE-LNG EPPIN 8840-LNG-PE PRE			4/17/2018	960474	-2,105.00			move chg fr 8840-EN1600069-68	4	18300-0000-0004-0000	You - Prelim Survey & Investigt	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900				960474	GL				4/17/2018	GL, Normal		1/1/1900		
8840-EN1600068	Re: 101 Later 8840-LATERAL PRE			4/17/2018	960474				move chg fr 8840-EN1600069-68	4	18300-0000-0004-0000	You - Prelim Survey & Investigt	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900				960474	GL				4/17/2018	GL, Normal		1/1/1900		
8840-EN1600068	Re: 101 Later 8840-LATERAL PRE			12/04/2018	1264020	159,000.00	0840-CRISER	CEI SERVICES, LLC	CEI SERVICES, LLC	4	18300-0000-0004-0000	You - Prelim Survey & Investigt	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900				1264020	GL		35308		4/15/2018	GL, Normal		1/1/1900		
8840-EN1600069	PE-LNG EPPIN 8840-LNG-PE PRE			10/7/2019	1258895	271,760.00	8840-CRISER	CEI SERVICES, LLC	CEI SERVICES, LLC	4	18300-0000-0004-0000	You - Prelim Survey & Investigt	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900				1258895	GL		35308		10/7/2019	Revg Trx Enty		1/1/1900	PO0000014882	
8840-EN1600068	Re: 101 Later 8840-LATERAL PRE			6/27/2017	77774	2,968.38	8840-CHACSULT	CHA CONSULTING INC	CHA CONSULTING INC	4	18300-0000-0004-0000	You - Prelim Survey & Investigt	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900				77774	REC	REC00002780	32652-1		5/22/2017	Revg Trx Enty		1/1/1900	PO0000090006	
8840-EN1600068	Re: 101 Later 8840-LATERAL PRE			6/27/2017	77774			CHA CONSULTING INC	CHA CONSULTING INC	4	18300-0000-0004-0000	You - Prelim Survey & Investigt	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900				77774	REC	REC00002780			5/22/2017	Revg Trx Enty		1/1/1900	PO0000090006	
8840-EN1600068	Re: 101 Later 8840-LATERAL PRE			8/16/2017	813374	44,411.00	8840-CHACSULT	CHA CONSULTING INC	CHA CONSULTING INC	4	18300-0000-0004-0000	You - Prelim Survey & Investigt	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900				813374	REC	REC000031474	32652-3		8/9/2017	Revg Trx Enty		1/1/1900	PO0000090006	
8840-EN1600068	Re: 101 Later 8840-LATERAL PRE			9/22/2017	837573	7,311.87	8840-CHACSULT	CHA CONSULTING INC	CHA CONSULTING INC	4	18300-0000-0004-0000	You - Prelim Survey & Investigt	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900				837573	REC	REC000032386	32652-4		9/12/2017	Revg Trx Enty		1/1/1900	PO0000090006	
8840-EN1600068	Re: 101 Later 8840-LATERAL PRE			11/19/2017	881195	5,025.00	8840-CHACSULT	CHA CONSULTING INC	CHA CONSULTING INC	4	18300-0000-0004-0000	You - Prelim Survey & Investigt	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900				881195	REC	REC000034147	32652-5		11/6/2017	Revg Trx Enty		1/1/1900	PO0000090006	
8840-EN1600068	Re: 101 Later 8840-LATERAL PRE			1/20/2018	924996	11,183.88	8840-CHACSULT	CHA CONSULTING INC	CHA CONSULTING INC	4	18300-0000-0004-0000	You - Prelim Survey & Investigt	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900				924996	REC	REC000034147	32652-6		4/12/2018	Revg Trx Enty		1/1/1900	PO0000090006	
8840-EN1600068	Re: 101 Later 8840-LATERAL PRE			4/2/2018	95848	6,415.00	8840-CHACSULT	CHA CONSULTING INC	CHA CONSULTING INC	4	18300-0000-0004-0000	You - Prelim Survey & Investigt	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900				95848	REC	REC000036065	32652-7		1/24/2018	Revg Trx Enty		1/1/1900	PO0000090006	
8840-EN1600068	Re: 101 Later 8840-LATERAL PRE			5/14/2018	98063	1,104.74	8840-CH ENGINE	CHI ENGINEERING SERVICES INC	CHI ENGINEERING SERVICES INC	5	18300-0000-0004-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900				139512	PM	PMTRX00001389	7178		4/9/2018	PM, TrxEnt		1/1/1900		
8840-EN1600068	Re: 101 Later 8840-LATERAL PRE			5/14/2018	98064																									

8840-EN1600068	Rte. 101 Later 8840-LATERA	PRE	11/29/2019	128874	236.9	11/29/2019 to 11/29/2019	1 0000-0001-0001-0000	Labor-Install	8840-CAPITAL	8840-2-0000-10-1618-1070	Construction Work In Progress	1/1/1900	1/1/1900	128874	GJ	11/29/2019_GL_Normal	11/29/2019	JIBROUJET	No
8840-EN1600068	Rte. 101 Later 8840-LATERA	PRE	11/29/2019	128874	369.87	11/29/2019 to 11/29/2019	1 0000-0001-0001-0000	Labor-Install	8840-CAPITAL	8840-2-0000-10-1618-1070	Construction Work In Progress	1/1/1900	1/1/1900	128874	GJ	11/29/2019_GL_Normal	11/29/2019	JIBROUJET	No
8840-EN1600068	Rte. 101 Later 8840-LATERA	PRE	12/13/2019	1294524	236.9	12/13/2019 to 12/07/2019	1 0000-0001-0001-0000	Labor-Install	8840-CAPITAL	8840-2-0000-10-1618-1070	Construction Work In Progress	1/1/1900	1/1/1900	1294524	GJ	12/13/2019_GL_Normal	12/13/2019	JIBROUJET	No
8840-EN1600068	Rte. 101 Later 8840-LATERA	PRE	12/13/2019	1294524	369.87	12/13/2019 to 12/07/2019	1 0000-0001-0001-0000	Labor-Install	8840-CAPITAL	8840-2-0000-10-1618-1070	Construction Work In Progress	1/1/1900	1/1/1900	1294524	GJ	12/13/2019_GL_Normal	12/13/2019	JIBROUJET	No
8840-EN1600068	Rte. 101 Later 8840-LATERA	PRE	12/17/2019	1304183	92.47	12/17/2019 to 12/21/2019	1 0000-0001-0001-0000	Labor-Install	8840-CAPITAL	8840-2-0000-10-1618-1070	Construction Work In Progress	1/1/1900	1/1/1900	1304183	GJ	12/27/2019_GL_Normal	12/27/2019	JIBROUJET	No
8840-EN1600068	Rte. 101 Later 8840-LATERA	PRE	1/10/2020	1309823	14.43	12/20/2019 to 01/04/2020	1 0000-0001-0001-0000	Labor-Install	8840-CAPITAL	8840-2-0000-10-1618-1070	Construction Work In Progress	1/1/1900	1/1/1900	1309823	GJ	1/10/2020_GL_Normal	1/10/2020	JIBROUJET	No
8840-EN1600068	Rte. 101 Later 8840-LATERA	PRE	1/24/2020	1316378	46.23	01/06/2020 to 01/11/2020	1 0000-0001-0001-0000	Labor-Install	8840-CAPITAL	8840-2-0000-10-1618-1070	Construction Work In Progress	1/1/1900	1/1/1900	1316378	GJ	1/24/2020_GL_Normal	1/24/2020	JIBROUJET	No
8840-EN1600069	PE-LNG EPPN 8840-LNG-PE	PRE	12/20/2016	671762	500 8810-PRFROD		5 18300-0000-0005-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900	1/1/1900	671762	PM	12/20/2016_PM_Trent	12/20/2016	PACOURIARY	No
8840-EN1600069	PE-LNG EPPN 8840-LNG-PE	PRE	1/19/2017	693812	9,766.72 8810-SANHA		5 18300-0000-0005-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900	1/1/1900	693812	PM	1/17/2017_PM_Trent	1/17/2017	PACOURIARY	No
8840-EN1600069	PE-LNG EPPN 8840-LNG-PE	PRE	2/28/2017	873056	5,378.08 8810-SANHA		5 18300-0000-0005-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900	1/1/1900	873056	PM	2/28/2017_PM_Trent	2/28/2017	PACOURIARY	No
8840-EN1600069	PE-LNG EPPN 8840-LNG-PE	PRE	3/29/2017	735038	3,152.10 8810-SANHA		5 18300-0000-0005-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900	1/1/1900	735038	PM	3/29/2017_PM_Trent	3/29/2017	PACOURIARY	No
8840-EN1600069	PE-LNG EPPN 8840-LNG-PE	PRE	5/25/2017	768514	10,900.11 8810-SANHA		5 18300-0000-0005-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900	1/1/1900	768514	PM	5/25/2017_PM_Trent	5/25/2017	PACOURIARY	No
8840-EN1600069	PE-LNG EPPN 8840-LNG-PE	PRE	6/27/2017	785811	19,490.90 8810-SANHA		5 18300-0000-0005-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900	1/1/1900	785811	PM	6/27/2017_PM_Trent	6/27/2017	PACOURIARY	No
8840-EN1600069	PE-LNG EPPN 8840-LNG-PE	PRE	7/25/2017	820970	17,177.13 8810-SANHA		5 18300-0000-0005-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900	1/1/1900	820970	PM	7/25/2017_PM_Trent	7/25/2017	PACOURIARY	No
8840-EN1600069	PE-LNG EPPN 8840-LNG-PE	PRE	8/28/2017	821054	7,246.90 8810-SANHA		5 18300-0000-0005-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900	1/1/1900	821054	PM	8/28/2017_PM_Trent	8/28/2017	PACOURIARY	No
8840-EN1600069	PE-LNG EPPN 8840-LNG-PE	PRE	9/21/2017	836017	13,445.19 8810-SANHA		5 18300-0000-0005-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900	1/1/1900	836017	PM	9/21/2017_PM_Trent	9/21/2017	PACOURIARY	No
8840-EN1600069	PE-LNG EPPN 8840-LNG-PE	PRE	10/31/2017	860533	6,361.80 8810-SANHA		5 18300-0000-0005-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900	1/1/1900	860533	PM	10/31/2017_PM_Trent	10/31/2017	PACOURIARY	No
8840-EN1600069	PE-LNG EPPN 8840-LNG-PE	PRE	11/20/2017	873056	5,378.08 8810-SANHA		5 18300-0000-0005-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900	1/1/1900	873056	PM	11/20/2017_PM_Trent	11/20/2017	PACOURIARY	No
8840-EN1600069	PE-LNG EPPN 8840-LNG-PE	PRE	12/11/2017	884969	10,619.62 8810-SANHA		5 18300-0000-0005-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900	1/1/1900	884969	PM	12/11/2017_PM_Trent	12/11/2017	PACOURIARY	No
8840-EN1600069	PE-LNG EPPN 8840-LNG-PE	PRE	1/23/2018	907391	20,264.22 8810-SANHA		5 18300-0000-0005-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900	1/1/1900	907391	PM	1/23/2018_PM_Trent	1/23/2018	PACOURIARY	No
8840-EN1600069	PE-LNG EPPN 8840-LNG-PE	PRE	3/26/2018	927928	58,472.42 8810-SANHA		5 18300-0000-0004-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900	1/1/1900	927928	PM	3/26/2018_PM_Trent	3/26/2018	PACOURIARY	No
8840-EN1600069	PE-LNG EPPN 8840-LNG-PE	PRE	3/16/2018	939147	5,670.79 8810-SANHA		5 18300-0000-0004-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900	1/1/1900	939147	PM	3/16/2018_PM_Trent	3/16/2018	PACOURIARY	No
8840-EN1600069	PE-LNG EPPN 8840-LNG-PE	PRE	4/16/2018	960213	42,045.32 8810-SANHA		5 18300-0000-0004-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900	1/1/1900	960213	PM	4/16/2018_PM_Trent	4/16/2018	PACOURIARY	No
8840-EN1600069	PE-LNG EPPN 8840-LNG-PE	PRE	5/14/2018	988065	15,385.02 8810-SANHA		5 18300-0000-0005-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900	1/1/1900	988065	PM	5/14/2018_PM_Trent	5/14/2018	PACOURIARY	No
8840-EN1600069	PE-LNG EPPN 8840-LNG-PE	PRE	6/8/2018	997164	11,037.55 8810-SANHA		5 18300-0000-0005-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900	1/1/1900	997164	PM	6/8/2018_PM_Trent	6/8/2018	PACOURIARY	No
8840-EN1600069	PE-LNG EPPN 8840-LNG-PE	PRE	10/23/2018	1023650	20,301.40 8810-SANHA		5 18300-0000-0005-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900	1/1/1900	1023650	PM	10/23/2018_PM_Trent	10/23/2018	PACOURIARY	No
8840-EN1600069	PE-LNG EPPN 8840-LNG-PE	PRE	8/7/2018	1039140	29,418.49 8810-SANHA		5 18300-0000-0005-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900	1/1/1900	1039140	PM	8/7/2018_PM_Trent	8/7/2018	PACOURIARY	No
8840-EN1600069	PE-LNG EPPN 8840-LNG-PE	PRE	8/31/2018	1042025	29,418.49 8810-SANHA		5 18300-0000-0005-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900	1/1/1900	1042025	PM	8/31/2018_PM_Trent	8/31/2018	PACOURIARY	No
8840-EN1600069	PE-LNG EPPN 8840-LNG-PE	PRE	5/18/2019	1052908	41,203.29 8810-SANHA		5 18300-0000-0005-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900	1/1/1900	1052908	PM	5/18/2019_PM_Trent	5/18/2019	PACOURIARY	No
8840-EN1600069	PE-LNG EPPN 8840-LNG-PE	PRE	9/19/2019	1052332	-29,419.48 8810-SANHA		5 18300-0000-0005-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900	1/1/1900	1052332	PM	9/19/2019_PM_Trent	9/19/2019	PACOURIARY	No
8840-EN1600069	PE-LNG EPPN 8840-LNG-PE	PRE	10/4/2019	1063445	0 8810-SANHA		5 18300-0000-0005-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900	1/1/1900	1063445	PM	10/4/2019_PM_Trent	10/4/2019	PACOURIARY	No
8840-EN1600069	PE-LNG EPPN 8840-LNG-PE	PRE	10/23/2018	1073831	35,167.85 8810-SANHA		5 18300-0000-0005-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900	1/1/1900	1073831	PM	10/23/2018_PM_Trent	10/23/2018	PACOURIARY	No
8840-EN1600069	PE-LNG EPPN 8840-LNG-PE	PRE	10/23/2018	1073831	35,167.85 8810-SANHA		5 18300-0000-0005-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900	1/1/1900	1073831	PM	10/23/2018_PM_Trent	10/23/2018	PACOURIARY	No
8840-EN1600069	PE-LNG EPPN 8840-LNG-PE	PRE	11/27/2018	1090178	30,423.24 8810-SANHA		5 18300-0000-0005-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900	1/1/1900	1090178	PM	11/27/2018_PM_Trent	11/27/2018	PACOURIARY	No
8840-EN1600069	PE-LNG EPPN 8840-LNG-PE	PRE	12/1/2018	1094612	0 8810-SANHA		5 18300-0000-0005-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900	1/1/1900	1094612	PM	12/1/2018_PM_Trent	12/1/2018	PACOURIARY	No
8840-EN1600069	PE-LNG EPPN 8840-LNG-PE	PRE	12/11/2018	1095659	43,779.78 8810-SANHA		5 18300-0000-0005-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900	1/1/1900	1095659	PM	12/11/2018_PM_Trent	12/11/2018	PACOURIARY	No
8840-EN1600069	PE-LNG EPPN 8840-LNG-PE	PRE	12/13/2018	1100008	0 8810-SANHA		5 18300-0000-0005-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900	1/1/1900	1100008	PM	12/13/2018_PM_Trent	12/13/2018	PACOURIARY	No
8840-EN1600069	PE-LNG EPPN 8840-LNG-PE	PRE	2/8/2019	1131016	40,180.80 8810-SANHA		5 18300-0000-0005-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900	1/1/1900	1131016	PM	2/8/2019_PM_Trent	2/8/2019	PACOURIARY	No
8840-EN1600069	PE-LNG EPPN 8840-LNG-PE	PRE	2/12/2019	1132356	66,543.11 8810-SANHA		5 18300-0000-0005-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900	1/1/1900	1132356	PM	2/12/2019_PM_Trent	2/12/2019	PACOURIARY	No
8840-EN1600069	PE-LNG EPPN 8840-LNG-PE	PRE	3/26/2019	1153588	64,916.55 8810-SANHA		5 18300-0000-0005-0000	Outside Services-Prelim Survey	8840-CAPITAL	8840-2-0000-10-1615-1830	Preliminary Survey & Investigation Charges	1/1/1900	1/1/1900	1153588	PM	3/26/2019_PM_Trent	3/26/2019	PACOURIARY	No
8840-EN1600069	PE-LNG EPPN 8840-LNG-PE	PRE	4/19/2019	1157928	0 8810-SANHA		5 18300-0000-0005-0000	Outside Services-Prelim Survey	8840-CAPITAL	88									

