

VIA ELECTRONIC SUBMISSION

November 30, 2023

Canada Energy Regulator
Suite 210, 517 Tenth Avenue S.W.
Calgary, Alberta T2R 0A8

To: Ms. Ramona Sladic, Secretary of the Commission

Dear Ms. Sladic:

**Re: Trans Mountain Pipeline ULC (Trans Mountain)
Trans Mountain Expansion Project (Project, TMEP)
Certificate OC-065
Mountain 3 HDD – Request for Variance
Response to Undertakings
CER File: OF-Fac-Oil-T260-2013-03 61**

Please find attached Trans Mountain's response to Undertakings U1 to U4 with respect to the above noted proceeding.

Should you have any questions or wish to discuss this matter further, please contact the undersigned at regulatory@transmountain.com or (403) 514-6400.

Yours truly,

Original signed by

Dorothy Golosinski
Vice President, Regulatory
Trans Mountain Canada Inc.

Enclosure: Trans Mountain Response to Undertakings U1 to U4.

**Trans Mountain Pipeline ULC (Trans Mountain)
Trans Mountain Expansion Project
Certificate OC-065
Mountain 3 HDD: Request for Variance – Pipe Diameter, Coating and Wall Thickness
CER File: OF-Fac-Oil-T260-2013-03 61
Response to Undertakings U-1 to U-4
Filed: November 30, 2023**

Undertaking 1 given by Mr. Goulet to Ms. Yuzda at Transcripts page 59.

To describe the process that Trans Mountain followed for any deviation from the Approved Manufacturers List (AML) in relation to the AML Deviation Procedure.

Trans Mountain Response to U-1:

Trans Mountain's process for any deviation is described in the Trans Mountain Quality Management Plan. Section 6.1 (Vendor Pre-Qualification) of the Quality Management Plan¹ states the following:

All critical service purchase materials and equipment and contracted services will be obtained from vendors and contractors on the Approved Manufacturers' List *or those qualified on the basis of technical, quality, safety, and commercial factors, in accordance with the requirements of the TMEP Vendor Pre-Qualification procedure.* (01-13283-GG-0000-SC-PRO-0002). (italics added)

Section 3.1, Deviations to the AML, of the Vendor Pre-Qualification Procedure states:

The executing Contractor or TMEP Project Team may at any time request a deviation to the AML. It is the responsibility of TMEP SCM to ensure that any deviations from the AML are approved by the appropriate parties, and that such action is properly substantiated. TMEP Procedure "*Approved Manufacturers List Deviation 01-13283-GG-0000-RPT-PR-0003*" details the procedure for deviating from the AML. (italics in original)

The Approved Manufacturers List Deviation Procedure describes the information that is required to be obtained to make an addition to the AML. This information includes the following:

- A summary of the vendor's² list of equipment sold or operating on projects in Alberta or elsewhere in Canada.
- Copies of Quality Assurance Certificates.
- References from other projects and/or previous clients.

In addition, as shown in the Vendor List Deviation Request forms at PDF pages 12, 14 and 16 of Attachment 1, each of Berg, SeAH, and EZEFLOW achieved the Project pre-qualification requirements. Also, please see page 3 of 4 of the DCN, regarding the "Pipe Manufacturers Acceptance Criteria".

¹ TMEP Document # 01-13283-GG-0000-RPT-CM-0002.

² Note that the document uses the term "vendor" which would include manufacturers of Project components.

This information, together with any other required support data, is issued to the TMEP Procurement Team. TMEP then makes a decision on whether or not the vendor should be added to the AML. This decision is then documented via the Vendor List Deviation Request Form.

In this instance, the Engineer of Record gathered the information and provided it to TMEP as the basis for TMEP's decision. The Vendor List Deviation Request Forms for the two pipe manufacturers³ and the fitting manufacturer who were not on the AML are provided in Attachment 1 (Design Change Notice) at PDF pages 12 to 17, with the requisite approvals from TMEP personnel.

³ Note that one of the pipe manufacturers (JFE) was already on the AML and therefore did not require a Vendor List Deviation Request Form.

Undertaking 2 given to Ms. Yuzda at Transcripts pages 59-60.

Undertaking No. 2(A): To demonstrate what additional measures Trans Mountain took to ensure quality equivalent to the material produced under Trans Mountain's Quality Management Plan that adheres to or that is equivalent to that procedure under Trans Mountain's Quality Management Plan.

Undertaking No. 2(B): To include any reference to any approved inspection and test plans, ITPs, and demonstrating material acceptance required under Condition 9 of Certificate OC-065.

Trans Mountain Response to U-2(A) and U-2(B)

Trans Mountain relied on the Engineer of Record to conduct an assessment to ensure that the pipe and fittings to be acquired were of a quality equivalent to the material produced under Trans Mountain's Quality Management Plan (QMP). The fittings acquired from EZEFLOW were manufactured to TMEP specifications. As EZEFLOW was not on the approved AML, the Vendor List Deviation Request form was completed in accordance with TMEP procedures. All other aspects of procurement were under TMEP oversight and followed the procedures in the Quality Management Plan.

The following describes the additional measures Trans Mountain took to ensure quality equivalent to TMEP's QMP for the pipe manufacturers.

1. The three NPS 30 pipe manufacturers were evaluated for equivalent acceptance based on the following criteria:
 - Manufacturer's product used by other pipeline companies within the industry.
 - Trans Mountain's past experience with the manufacturer.
 - Manufacturer's ISO certification.
 - Manufacturer's Quality Assurance/Quality Control documentation.
2. The Engineer of Record considered conformance to CSA Z662 and to Project specifications and employed a qualified third-party inspector (RINA) to assess the suitability of the pipe product from the three pipe manufacturers. The Engineer of Record assessed the pipe as "suitable for use". TMEP relied on the Engineer of Record to ensure adherence to the Project's Quality Management Plan.
3. The SeAH 19.1 mm pipe was acquired and provided to TMEP's induction bend vendor to produce induction bends. This pipe is classified as an induction bend rather than line pipe and falls under the TMEP-approved induction bend vendor's quality management plan. The induction bends were completed in conformance with TMEP's specifications.

Condition 9(d) of Certificate OC-065 requires that Trans Mountain have mandatory inspection requirements, inspector competency training and qualifications. In addition to the equivalent acceptance criteria provided above, Trans Mountain's third-party inspector consolidated the relevant information of each of the manufacturers according to criteria provided by Trans Mountain's Supply Chain organization on October 6, 2023. These criteria are provided as a reference document in Attachment 1 at PDF pages 18 to 21. The most relevant criteria that relate to Condition 9(d) included:

- Confirmation that the Charpy test value should be demonstrated at -6 °C in accordance with TMEP specifications.

- Pipe and heat numbers should be fully legible from the mill stencils.
- Confirm that all Material Test Reports are available for the stated pipe and heat numbers.
- Visual inspection for dents, gouges, excessive corrosion, ovality and so forth.

The third-party inspector also conducted visual inspections of the pipe in conformance with direction to the Inspector (as described in Attachment 1 (Design Change Notice)). These activities were critical in supporting the conclusion by the Engineer of Record that the selected pipe and fittings were suitable for use on the Project.

Please refer to the response to Undertaking 4 for additional information relating to Condition 9. In the Condition 9 table provided in Undertaking 4, all references to JFE pipe should be read to apply to all NPS 30 pipe.

Undertaking 3 given by Mr. Huber to Ms. Yuzda at Transcript pages 50-51.

To demonstrate that all 30-inch diameter pipe and components comply with all project-specific relevant TMEP technical pipe specifications.

Trans Mountain Response to U-3

As outlined in CSA Z662-19, “demonstrate” is defined to mean “verify, or describe and explain, by the use of records, measurement tests, comparison of specimens, experiments or analysis by a competent person, supported by documentation”⁴.

In the discussion that follows, please refer to Attachment 1, entitled “Design Change Notice – NPS 30 Pipe Suitability for Mountain Crossing #3”, which is provided as an attachment to these responses to the Undertakings. The Design Change Notice (DCN) provides a detailed summary of the steps taken by TMEP’s Engineer of Record (EOR) to ensure adherence to TMEP’s documented procedures. TMEP’s Engineer of Record (Universal Pegasus International) has consolidated its review of the acquired materials into a single Design Change Notice (DCN). The document has been signed and stamped by a qualified Professional Engineer in the Province of British Columbia.

TMEP engaged the Engineer of Record (EOR) throughout the procurement process to ensure that the NPS 30 pipe and components were from reputable mills and would achieve a quality equal to that of the balance of TMEP pipe.

TMEP obtained and reviewed the Quality Management Plans (QMPs) of the manufacturers. Each of the manufacturers is certified under the International Standards Organization’s (ISO’s) Quality Management System standard, which is ISO 9001:2015 for the Manufacture of Carbon Steel Pipes.

Additional details related to each pipe manufacturer are provided below:

Berg

- Technical evaluation was conducted on the basis of the manufacturing records produced by the manufacturer and inspections conducted by a qualified third-party inspection organization (RINA).
- Berg Pipe conforms with the requirements of ISO 9001:2015. The Engineer of Record has reviewed Berg Pipe’s QMP and found it equivalent to the approved AML manufacturers (Attachment 1, page 3).
- The Berg pipe is manufactured to the American Petroleum Institute’s 5L standard. This standard is deemed acceptable under CSA Z662 Table 5.3 with the caveat that impact test results must meet the requirements of CSA Z662. To comply with these requirements, supplemental impact testing was conducted in accordance with CSA Z245.1. The results of the testing confirmed that the pipe conformed to Project specifications and was suitable for use.

SeAH

- Technical evaluation was conducted on the basis of the manufacturing records produced by the manufacturer and inspections conducted by a qualified third-party inspection organization (RINA).

⁴ CSA Z662-2019, Section 2.2 (Definitions), PDF p. 80.

- SeAH Steel Corporation conforms with the requirements of ISO 9001:2015. The Engineer of Record has reviewed SeAH's QMP and found it equivalent to the approved AML manufacturers (Attachment 1, page 3).
- The Engineer of Record determined that this pipe was "suitable for use as found", only requiring Project-specific FBE/ARO⁵ coating to be applied by the Project-approved coating vendor (Shawcor). The term "suitable for use" implies that in the professional judgment of the Engineer of Record, after review, the pipe meets both CSA Z662 and Project specifications.

JFE

- JFE is on the Project's AML.
- Technical evaluation was conducted on the basis of the manufacturing records produced by the manufacturer and inspections conducted by a qualified third-party inspection organization (RINA).
- JFE Steel Corporation West Japan Works (Fukuyama) conforms with the requirements of ISO 9001:2015. The Engineer of Record has reviewed JFE's QMP and found it suitable.
- The Engineer of Record determined that this pipe was "suitable for use as found", only requiring Project-specific FBE/ARO coating to be applied by the Project-approved coating vendor (Shawcor). The term "suitable for use" implies that in the professional judgment of the Engineer of Record, after review, the pipe meets both CSA Z662 and Project specifications.

EZEFLOW

The fittings were manufactured to TMEP specifications. All aspects were under TMEP oversight and followed the procedures in the Quality Management Plan.

Summary

The Engineer of Record completed its technical review of the NPS 30 pipe and fittings on November 8, 2023 (page 3 of 4 of the DCN). The preparation of the Design Change Notice with the requisite approvals by Project personnel was completed on November 27, 2023, demonstrating the necessary steps were taken to ensure that the NPS 30 pipe and components meet the Project's technical quality requirements and specifications in compliance with CSA Z662.

Undertaking 4 given by Mr. Huber to Ms. Yuzda at Transcripts pages 79-81.

With respect to the JFE pipe that was purchased from the distributor and not directly from the manufacturer, demonstrate that Trans Mountain complied with Condition 9 of CPCN OC-065.

Trans Mountain Response to U-4:

As outlined in CSA Z662-19, “demonstrate” is defined to mean “verify, or describe and explain, by the use of records, measurement tests, comparison of specimens, experiments or analysis by a competent person, supported by documentation”⁶.

In the case of pipe manufactured by JFE, the Engineer of Record determined that this pipe was suitable for use, only requiring project-specific FBE/ARO coating to be applied by the Project-approved coating vendor (Shawcor). The term “suitable for use” implies that in the professional judgment of the Engineer of Record, after review, the pipe meets both CSA Z662 and Project specifications.


Condition 9 of CPCN OC-65 states the following: “Trans Mountain must file with the NEB, **at least 4 months prior to manufacturing any pipe and major components for the Project**, a Project-specific Quality Management Plan that includes ...”.

In the table below, Trans Mountain identifies each requirement of Condition 9(a)-(h) and demonstrates that it complied with Condition 9(a)-(h) of CPCN OC-065.

CPCN Condition 9(a)-(h)	Trans Mountain Compliance with Condition 9(a)-(h)
a) material/vendor qualification requirements	Compliance was provided by the Engineer of Record, in its review of the manufacturer’s ISO certification and Quality Assurance/Quality Control documents. Refer to Attachment 1, page 3.
b) quality control and assurance of pipe, fittings, and components that ensure all materials meet Trans Mountain’s specifications (i.e., processes, procedures, specifications, random testing, inspection, and test reports)	Compliance was provided by the Engineer of Record, based on Project specifications and requirements. Attachment 1 (Design Change Notice – NPS 30 Pipe Suitability for Mountain Crossing #3) summarizes the steps taken to ensure that the JFE NPS 30 pipe comply with the Project-specific technical pipe specifications. TMEP confirmed the manufacturer’s ISO 9001:2015 certification and reviewed the manufacturer’s QMP.
c) mandatory documentation of process conditions during manufacture and verification of the conformance of manufacturer material test reports with Trans Mountain’s requirements	Compliance was provided by the Engineer of Record (and provided in Attachment 1), in ensuring that the manufacturer had adequate verification of material test reports and related documentation pertaining to the manufacture of the pipe. JFE has a valid ISO 9001:2015 certification and was on TMEP’s AML. The Engineer of Record confirmed that the material test reports are available for traceability and confirmed that the pipe met TMEP specifications.

⁶ CSA Z662-2019, Section 2.2 (Definitions), PDF p. 80.

CPCN Condition 9(a)-(h)	Trans Mountain Compliance with Condition 9(a)-(h)
d) mandatory inspection requirements, inspector competency training, and qualifications	With respect to the JFE NPS 30 pipe which had already been manufactured, TMEP could not apply the mandatory inspection requirements, inspector competency training, and qualifications processes in the QMP with respect to the manufacture of the pipe. Upon receipt of the pipe, TMEP applied the same processes as those outlined in the QMP on a forward-looking basis. Demonstration of compliance is provided in Attachment 1 at pages 3 and 4.
e) non-conformance reporting and correction procedures	With respect to the JFE NPS 30 pipe which had already been manufactured, TMEP could not apply the non-conformance reporting and correction procedures in the QMP with regard to the manufacture of the pipe. Upon receipt of the pipe, TMEP applied the same processes as those outlined in the QMP on a forward-looking basis. Demonstration of compliance is provided in Attachment 1 at pages 3 and 4.
f) change management process	Once the decision was made to acquire the JFE NPS 30 pipe (see Attachment 1), no change management process was required with respect to the NPS 30 pipe.
g) commissioning requirements	Trans Mountain will ensure that the commissioning requirements of the QMP are applied during construction activities involving the JFE NPS 30 pipe.
h) material handling requirements during transportation	Pipe handling activities prior to TMEP's purchase of the pipe were not subject to the QMP material handling requirements. Following TMEP's purchase of the JFE NPS 30 pipe, the material handling requirements of the QMP have been applied, including for the transportation of the pipe from the distributor to the coating mill, and to the right-of-way.

 Universal Pegasus INTERNATIONAL 19731-501-DCN-01094	Trans Mountain Expansion Project Design Change Notice NPS 30 Pipe Suitability for Mountain Crossing # 3	Contractor Revision Date: 2023-11-27
		Contractor Revision No.: 0
		Page 1 of 4


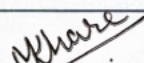




Trans Mountain Expansion Project

Design Change Notice NPS 30 Pipe Suitability for Mountain Crossing # 3



TMEP Document # 01-13283-S5B-M002-PL-DCN-0015 R0

Rev No.	Prepared by/ Date	Reviewed by/ Date	Approved by/ Date	Reviewed by TMEP	Pages Revised	Issued Type
0	 Simon Kirkland 2023-11-27	 Marjiri Khare 2023-11-27	 Rob Brown 2023-11-27	 Jim Huber 2023-11-29	All	Issued for Use



19731-501-DCN-01094

Trans Mountain Expansion Project
Design Change Notice
NPS 30Pipe Suitability for Mountain Crossing # 3

Table with 2 columns: Field Name, Value. Rows include Contractor Revision Date (2023-11-27), Contractor Revision No. (0), and Page (2 of 4).

Responsible Engineer to complete form, issue, and update DCN log.

Table with 2 columns: Field Name, Value. Rows include Title of Document / Change (NPS 30Pipe Suitability for MTC # 3), DCN Number (19731-501-DCN-01094), RFI # / Client Reference # (01-13283-S5B-M002-PL-DCN-0015), and Spread (5B).

Reason for Change

Trans Mountain is considering using NPS 30 pipe for the Mountain 3 HDD on spread 5B to mitigate technical issues that have been encountered during the boring process. This change necessitated the procurement of additional pipe and fittings as well as the evaluation of existing project welding procedures for use on the material.

PIPE

Due to the limited quantities of NPS 30 pipe required and the short delivery window required, Trans Mountain has decided to procure stock pipe currently available from three manufacturers rather than placing an order for a mill run the requirements for this order were documented using Material requisition 01-13283-S5B-M002-PL-MRQ-0007. The pipe of suitable grade, diameter and quality currently available in North America was produced by three manufacturers:

- JFE
Berg
SEAH

Of these three manufacturers, only JFE has been prequalified on the Trans Mountain Expansion project.

Based on the schedule constraints of this HDD Trans Mountain has elected to proceed in accordance with Clause 6.1 (Vendor Pre-Qualification) of the Trans Mountain Expansion Quality Management Plan and use vendors not listed on the project AML, as insufficient pipe was readily available in North America to fulfil this order with pipe produced by AML listed vendors.

The manufacturers were evaluated in accordance with Clause 3.1 of the Trans Mountain Expansion Project Vendor Prequalification Procedure and documented using the Variance Request form.

- I. Berg pipe is manufactured to the API 5L standard. This standard is accepted by CSA Z662 Table 5.3 with the caveat that impact test results must meet the requirements of CSA Z662. To comply with these requirements supplemental impact testing was conducted in accordance with CSA Z245.1.
II. SeAH pipe was manufactured in accordance with CSA Z245.1.

FITTINGS

Trans Mountain elected to procure forged reducers from EZEFLOW, a Canadian fitting manufacturer which holds quality management certification for the manufacture of fittings for the pressure equipment and nuclear industries in Canada and internationally. These reducers were manufactured in accordance with CSA Z245.11 with impact testing conducted at M45C. These fittings were manufactured in accordance with the requirements of 01-13283-TMEP-MP1200 Steel Fittings Specification and the manufacturing records were reviewed for compliance with the requirements of the project. The manufacturers were evaluated in accordance with Clause 3.1 of the Trans Mountain Expansion Project Vendor Prequalification Procedure and documented using the Variance Request form.

WELDING PROCEDURES

The General Construction Contractor elected to use welding procedure TMEP-WPS-04 for the production welding of the NPS 30 pipe and TMEP-WPS-15-RP and TMEP-WPS-18-BW for repair welding. These procedures were reviewed, and the pipe was found to be within the essential variable ranges specified in the welding procedures. The welding procedure datasheets were revised to include the NPS 30 x 15.9mm pipe size.

Resolution / Description of Change:

PIPE MANUFACTURER ACCEPTANCE CRITERIA



19731-501-DCN-01094

Trans Mountain Expansion Project

**Design Change Notice
NPS 30 Pipe Suitability for
Mountain Crossing # 3**

Contractor Revision Date:	2023-11-27
Contractor Revision No.:	0
Page	3 of 4

As the pipe was previously manufactured, a review of pre-construction risk mitigation documents such as the Quality Management Plans and Inspection and Test Plans do not provide risk mitigation value at this stage. Instead, in accordance with condition 9 and Clause 3.1 approved vendor list deviation procedure, the manufacturers were evaluated for equivalent acceptance based on vendor acceptance criteria i.e.,

- a) Manufacturer considered by other industry standard pipeline companies,
- b) Trans Mountain's past experience with the Manufacturer
- c) Manufacturer's ISO certification
- d) Manufacturer's QA / QC documents

Based on above criteria, following were the findings:

- I. Berg pipe – this pipe is surplus from a mill order for the Gary Oak pipeline, a joint venture between Enbridge and Phillips 66. This pipe was manufactured to the standards of these organizations. As these are top tier organizations with industry leading QMP programs, Trans Mountain considers their QA/ QC processes / standards to be **suitable for use** on the Trans Mountain Pipeline.
- II. SeAH – this pipe was purchased from pipe vendor stock. SeAH is a manufacturer which has been previously qualified by Trans Mountain Operations and was used on previous Trans Mountain projects, including the welding procedure qualifications for the Trans Mountain Expansion Project. As such Trans Mountain has a high degree of confidence in the QA/ QC processes / standards of the pipe supplier.

PIPE TECHNICAL ACCEPTANCE

A technical evaluation was conducted on the basis of the manufacturing records produced by the manufacturer and inspections conducted based on ITP criteria (attached) provided to the qualified third party inspection organization (RINA).

Based on above criteria, following were the findings:

- I. The JFE and SeAH piping were determined to be **suitable for use as found**, only requiring project specific FBE/ ARO coating to be applied by the project approved coating vendor (Shawcor).
- II. The Berg pipe was found to require additional mechanical testing to be suitable for use. The Berg pipe had impact testing conducted at OC, which did not meet the project requirements of M6C. To mitigate this finding, a sample was taken from each heat of pipe procured and Charpy V-Notch testing on the pipe body and the longitudinal seam weld and heat affected zone at M6C. The results of this testing were reviewed and were determined to meet the project requirements. The pipe was deemed to be **suitable for use as tested**. Project specific FBE/ ARO coating was applied by the project approved coating vendor (Shawcor).

Despite the manufactures not being listed on the Trans Mountain Approved Manufacturers List, use of NPS 30 pipe previously manufactured by Berg USA and SeAH is considered acceptable on the basis of the technical assessment. These products have been reviewed for compliance with the pipe product specifications of TMEP-SAW-01. On Nov 8th EOR released pipe to be used.

FITTINGS

The two NPS 36 x 30 were procured from EZEFLOW in accordance with material requisition 01-13283-S5B-M002-PL-MRQ-0008. This document included all project requirements, these fittings were manufactured to order and complied with all project requirements. On Nov 21 EOR released fittings to be used upon receipt of the MTRs for these fittings.

References Documents			
Description	Document Number	Rev	Comments
RINA Traceability verification	email dated Oct. 17 2023	-	Attached
Vendor Prequalification Variance Request form	01-13283-GC-0000-RPT-PR-0003	1	Attached
ITP Criteria for MTC #3 NPS 30 X70 pipe	email dated Oct 6 2023	-	Attached



19731-501-DCN-01094

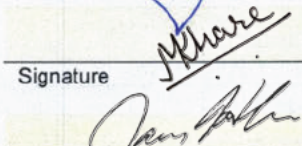
Trans Mountain Expansion Project

**Design Change Notice
NPS 30 Pipe Suitability for
Mountain Crossing # 3**

Contractor Revision Date:	2023-11-27
Contractor Revision No.:	0
Page	4 of 4

Additional NPS 30 pipe for Mountain crossing # 3.	01-13283-S5B-M002-PL-MRQ-0007	0	
Quality Management Plan	01-13283-GG-0000-RPT-CM-0002	2	
Vendor Prequalification Plan	01-13283-GG-0000-SC-PRO-0002	1	
Approved Vendor List Deviation Procedures	01-13283-GG-RPT-PR-0003	1	
Steel Fittings Specification	01-13283-TMEP-MP1200	4	
Welding Procedure Specification	TMEP-WPS-04	1	
Welding Procedure Specification	TMEP-WPS-15-RP	0	
Welding Procedure Specification	TMEP-WPS-18-BW	0	
Submerged Arc Welded Steel Pipe Specification	TMEP-SAW-01	4	
NPS 30 Fittings for Mountain Crossing 3	01-13283-S5B-M002-PL-MRQ-0008	0	

DCN Approval

Lessons Learned		
N/A		
Simon Kirkland Originator (Print)	Signature 	<u>2023-Nov-27</u> Date (yyyy-mm-dd)
Simon Kirkland Responsible Engineer	Signature 	<u>2023-Nov-27</u> Date (yyyy-mm-dd)
Manjiri Khare Engineering Manager	Signature 	<u>2023 Nov 27</u> Date (yyyy-mm-dd)
Jim Huber	Signature 	<u>2023-Nov-29</u> Date (yyyy-mm-dd)
TMC Approval	Signature	Date (yyyy-mm-dd)

Notes

TMEP TMCI, these documents and files are intended to be used by other project participants, please also issue to Construction, Procurement, Environment, Survey and Geotechnical

From: [REDACTED]

Sent:

Tuesday, October 17, 2023 4:04 PM

To:

Cc: [REDACTED] x

Subject:

RINA - Traceability Verification Oct 17, 2023

Attachments:

RINA - Traceability Verification Oct 17, 2023.xlsx

WARNING: This email originated from outside of Trans Mountain. Do not click links or open attachments unless you recognize the sender and know the contents are safe.

If you are unsure, press the "Report Message > Phishing" button from this email or forward this e-mail to the Report Phish mailbox.

Hi All,

Good Day, attached is the spreadsheet with all the data's for the 30 inch 15.9mm WT JFE/SEAH joints that were delivered in Shawcor yard. Its all complete now.

Thanks

[REDACTED]

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Client: TMEP			ID Stencil Not Legible
RINA Job No.: TMP001-			Needs further evaluation
P.O. or REQ No. Joints Delivered in SHAW Camrose Yard			Stencil minimal legibility/Handwritten details missing
Shaw Camrose Yard			Accepted

Prepared By: Raj Ayyakannu																							
NO	Supplier	Pipe MFR	OD	OD UOM	WT	WT UOM	Spec	MFD MM-YY	CSA Spec	Grade	Category	Design Temp	Test PR MPA	Heat #	Pcs #	MF#	LENGTH	OH	WELD	API Grade	PIPE TYPE	Date Verified	Inspected by
1	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2445.1-18	448/483	CAT II	M45C	18.1	6-1874	27007	21-00394	12.46	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
2	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2445.1-18	448/483	CAT II	M45C	18.1	7-3399	27063	21-00447	12.47	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
3	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2445.1-18	448/483	CAT II	M45C	18.1	6-3398	27065	21-00422	12.47	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
4	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	12-22	CSA 2445.1-18	448/483	CAT II	M45C	18.2	1-6256	36619	2Y-03129	12.48	2E13299-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
5	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	12-22	CSA 2445.1-18	448/483	CAT II	M45C	18.2	1-6256	36617	2Y-03139	12.47	2E13299-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
6	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	12-22	CSA 2445.1-18	448/483	CAT II	M45C	18.2	1-5446	36628	2Y-03148	12.47	2E13299-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
7	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	12-22	CSA 2445.1-18	448/483	CAT II	M45C	18.2	1-6257	36633	2Y-03104	12.47	2E13299-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
8	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	12-22	CSA 2445.1-18	448/483	CAT II	M45C	18.2	1-7148	36639	2Y-03149	12.42	2E13299-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
9	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	12-22	CSA 2445.1-18	448/483	CAT II	M45C	18.2	1-7148	36629	2Y-03102	12.41	2E13299-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
10	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2445.1-18	448/483	CAT II	M45C	18.1	6-3398	27005	21-00378	12.46	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
11	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2445.1-18	448/483	CAT II	M45C	18.1	6-1911	27019	21-00367	12.47	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
12	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2445.1-18	448/483	CAT II	M45C	18.1	6-3879	27026	21-00414	12.47	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
13	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2445.1-18	448/483	CAT II	M45C	18.1	7-3399	27010	21-00376	12.38	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
14	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2445.1-18	448/483	CAT II	M45C	18.1	6-3879	27003	21-00373	12.46	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
15	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2445.1-18	448/483	CAT II	M45C	18.1	7-3399	27020	21-00399	12.47	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
16	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2445.1-18	448/483	CAT II	M45C	18.1	6-3398	27016	21-00398	12.48	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
17	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2445.1-18	448/483	CAT II	M45C	18.1	6-3398	27091	21-00432	12.46	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
18	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2445.1-18	448/483	CAT II	M45C	18.1	7-3399	27044	21-00443	12.47	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
19	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2445.1-18	448/483	CAT II	M45C	18.1	6-1909	27093	21-00369	12.47	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
20	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2445.1-18	448/483	CAT II	M45C	18.1	6-3398	27011	21-00421	12.48	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
21	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2445.1-18	448/483	CAT II	M45C	18.1	6-1909	27100	21-00396	12.46	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
22	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2445.1-18	448/483	CAT II	M45C	18.1	7-3399	27017	21-00397	12.47	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
23	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2445.1-18	448/483	CAT II	M45C	18.1	6-1866	27084	21-00351	12.3	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
24	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2445.1-18	448/483	CAT II	M45C	18.1	6-3398	27062	21-00434	12.48	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
25	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2445.1-18	448/483	CAT II	M45C	18.1	7-3399	27083	21-00427	12.47	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
26	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2445.1-18	448/483	CAT II	M45C	18.1	6-1909	27021	21-00418	12.48	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
27	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2445.1-18	448/483	CAT II	M45C	18.1	6-3879	27058	21-00404	12.48	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
28	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2445.1-18	448/483	CAT II	M45C	18.1	6-3879	27031	21-00380	12.48	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
29	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	12-22	CSA 2445.1-18	448/483	CAT II	M45C	18.2	1-5114	36643	2Y-03140	12.4	2E13299-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
30	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	12-22	CSA 2445.1-18	448/483	CAT II	M45C	18.2	1-7148	36613	2Y-03119	12.47	2E13299-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
31	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	12-22	CSA 2445.1-18	448/483	CAT II	M45C	18.2	1-6256	36634	2Y-03103	12.42	2E13299-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
32	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2445.1-18	448/483	CAT II	M45C	18.1	7-3399	27039	21-00442	12.47	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
33	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	12-22	CSA 2445.1-18	448/483	CAT II	M45C	18.2	1-6256	36606	2Y-03138	12.46	2E13299-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
34	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	12-22	CSA 2445.1-18	448/483	CAT II	M45C	18.2	1-7148	36616	2Y-03117	12.47	2E13299-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
35	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	12-22	CSA 2445.1-18	448/483	CAT II	M45C	18.2	1-5446	36610	2Y-03144	12.47	2E13299-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
36	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	12-22	CSA 2445.1-18	448/483	CAT II	M45C	18.2	1-7148	36601	2Y-03115	12.47	2E13299-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
37	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	12-22	CSA 2445.1-18	448/483	CAT II	M45C	18.2	1-7148	36638	2Y-03150	12.47	2E13299-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
38	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	12-22	CSA 2445.1-18	448/483	CAT II	M45C	18.2	1-6256	36611	2Y-03135	12.48	2E13299-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
39	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	12-22	CSA 2445.1-18	448/483	CAT II	M45C	18.2	1-6256	36642	2Y-03137	12.47	2E13299-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
40	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2445.1-18	448/483	CAT II	M45C	18.1	7-3399	27045	21-00446	12.47	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
41	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	12-22	CSA 2445.1-18	448/483	CAT II	M45C	18.2	1-7148	36603	2Y-03122	12.47	2E13299-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
42	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	12-22	CSA 2445.1-18	448/483	CAT II	M45C	18.2	1-7148	36607	2Y-03123	12.47	2E13299-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
43	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	12-22	CSA 2445.1-18	448/483	CAT II	M45C	18.2	1-6256	36618	2Y-03125	12.48	2E13299-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
44	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	12-22	CSA 2445.1-18	448/483	CAT II	M45C	18.2	1-6257	36635	2Y-03105	12.47	2E13299-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
45	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	12-22	CSA 2445.1-18	448/483	CAT II	M45C	18.2	1-7148	36609	2Y-03146	12.47	2E13299-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
46	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	12-22	CSA 2445.1-18	448/483	CAT II	M45C	18.2	1-7148	36605	2Y-03124	12.47	2E13299-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
47	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	12-22	CSA 2445.1-18	448/483	CAT II	M45C	18.2	1-7148	36636	2Y-03110	12.46	2E13299-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
48	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-23	CSA 2445.1-18	448/483	CAT II	M45C	18.2										



Client: TMEP			ID Stencil Not Legible
RINA Job No.: TMP001-			Needs further evaluation
P.O. or REQ No. Joints Delivered in SHAW Camrose Yard			Stencil minimal legibility/Handwritten details missing
Shaw Camrose Yard			Accepted

Prepared By: Raj Ayyakannu																							
NO	Supplier	Pipe MFR	OD	OD UOM	WT	WT UOM	Spec	MFD MM-YY	CSA Spec	Grade	Category	Design Temp	Test PR MPA	Heat #	Pcs #	MF#	LENGTH	OH	WELD	API Grade	PIPE TYPE	Date Verified	Inspected by
62	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	12-22	CSA 2245.1-18	448/483	CAT II	M45C	18.2	1-6256	36631	2Y-03132	12.48	2E13299-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
63	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	12-22	CSA 2245.1-18	448/483	CAT II	M45C	18.2	1-6256	36626	2Y-03134	12.48	2E13299-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
64	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2245.1-18	448/483	CAT II	M45C	18.1	6-3398	27064	21-00439	12.48	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
65	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2245.1-18	448/483	CAT II	M45C	18.1	6-1003	27041	21-00356	12.47	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
66	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2245.1-18	448/483	CAT II	M45C	18.1	6-1874	27002	21-00403	12.48	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
67	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2245.1-18	448/483	CAT II	M45C	18.1	6-3398	27032	21-00415	12.48	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
68	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2245.1-18	448/483	CAT II	M45C	18.1	6-1911	27087	21-00353	11.46	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
69	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2245.1-18	448/483	CAT II	M45C	18.1	6-3398	27004	21-00379	12.46	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
70	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	12-22	CSA 2245.1-18	448/483	CAT II	M45C	18.2	1-5446	36647	2Y-03112	12.34	2E13299-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
71	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2245.1-18	448/483	CAT II	M45C	18.1	6-3398	27074	21-00445	12.47	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
72	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2245.1-18	448/483	CAT II	M45C	18.1	6-1874	27043	21-00386	12.47	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
73	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	12-22	CSA 2245.1-18	448/483	CAT II	M45C	18.2	1-6256	36624	2Y-03131	12.41	2E13299-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
74	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	12-22	CSA 2245.1-18	448/483	CAT II	M45C	18.2	1-7148	36627	2Y-03147	12.47	2E13299-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
75	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	12-22	CSA 2245.1-18	448/483	CAT II	M45C	18.2	1-3373	36630	2Y-03107	12.41	2E13299-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
76	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	12-22	CSA 2245.1-18	448/483	CAT II	M45C	18.2	1-7148	36602	2Y-03120	12.47	2E13299-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
77	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	12-22	CSA 2245.1-18	448/483	CAT II	M45C	18.2	1-7148	36614	2Y-03145	12.47	2E13299-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
78	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2245.1-18	448/483	CAT II	M45C	18.1	6-3879	27014	21-00402	12.47	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
79	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2245.1-18	448/483	CAT II	M45C	18.1	6-3879	27061	21-00413	12.48	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
80	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2245.1-18	448/483	CAT II	M45C	18.1	6-3398	27038	21-00420	12.48	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
81	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2245.1-18	448/483	CAT II	M45C	18.1	6-0887	27069	21-00359	12.47	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
82	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2245.1-18	448/483	CAT II	M45C	18.1	6-3398	27066	21-00426	12.48	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
83	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2245.1-18	448/483	CAT II	M45C	18.1	6-3879	27060	21-00419	12.48	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
84	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2245.1-18	448/483	CAT II	M45C	18.1	6-3398	27053	21-00374	12.47	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
85	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2245.1-18	448/483	CAT II	M45C	18.1	6-3398	27009	21-00400	12.48	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
86	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2245.1-18	448/483	CAT II	M45C	18.1	7-3399	27023	21-00410	12.48	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
87	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2245.1-18	448/483	CAT II	M45C	18.1	6-3398	27025	21-00423	12.47	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
88	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2245.1-18	448/483	CAT II	M45C	18.1	7-3399	27040	21-00440	12.47	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
89	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2245.1-18	448/483	CAT II	M45C	18.1	6-3879	27037	21-00408	12.48	1E14253-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
90	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	12-22	CSA 2245.1-18	448/483	CAT II	M45C	18.2	1-5446	36623	2Y-03127	12.47	2E13299-001	SAWL	L450M (X65M)	PSL2	Thursday, October 12, 2023	Raj Ayyakannu
91	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2245.1-18	448/483	CAT II	M45C	18.1	6-1911	27059	21-00393	12.48	1E14253-001	SAWL	L450M (X65M)	PSL2	Friday, October 13, 2023	Raj Ayyakannu
92	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2245.1-18	448/483	CAT II	M45C	18.1	6-1909	27057	21-00387	12.46	1E14253-001	SAWL	L450M (X65M)	PSL2	Friday, October 13, 2023	Raj Ayyakannu
93	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2245.1-18	448/483	CAT II	M45C	18.1	6-3879	27030	21-00370	12.47	1E14253-001	SAWL	L450M (X65M)	PSL2	Friday, October 13, 2023	Raj Ayyakannu
94	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2245.1-18	448/483	CAT II	M45C	18.1	6-1909	27008	21-00392	12.48	1E14253-001	SAWL	L450M (X65M)	PSL2	Friday, October 13, 2023	Raj Ayyakannu
95	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2245.1-18	448/483	CAT II	M45C	18.1	7-3399	27050	21-00360	12.42	1E14253-001	SAWL	L450M (X65M)	PSL2	Friday, October 13, 2023	Raj Ayyakannu
96	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2245.1-18	448/483	CAT II	M45C	18.1	6-3879	27022	21-00384	12.47	1E14253-001	SAWL	L450M (X65M)	PSL2	Friday, October 13, 2023	Raj Ayyakannu
97	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2245.1-18	448/483	CAT II	M45C	18.1	6-3398	27027	21-00438	12.48	1E14253-001	SAWL	L450M (X65M)	PSL2	Friday, October 13, 2023	Raj Ayyakannu
98	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2245.1-18	448/483	CAT II	M45C	18.1	6-3398	27028	21-00448	12.47	1E14253-001	SAWL	L450M (X65M)	PSL2	Friday, October 13, 2023	Raj Ayyakannu
99	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2245.1-18	448/483	CAT II	M45C	18.1	6-3879	27085	21-00409	12.48	1E14253-001	SAWL	L450M (X65M)	PSL2	Friday, October 13, 2023	Raj Ayyakannu
100	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2245.1-18	448/483	CAT II	M45C	18.1	6-3398	27024	21-00382	12.47	1E14253-001	SAWL	L450M (X65M)	PSL2	Friday, October 13, 2023	Raj Ayyakannu
101	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2245.1-18	448/483	CAT II	M45C	18.1	6-3398	27081	21-00358	12.43	1E14253-001	SAWL	L450M (X65M)	PSL2	Friday, October 13, 2023	Raj Ayyakannu
102	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	12-22	CSA 2245.1-18	448/483	CAT II	M45C	18.2	1-7148	36608	2Y-03116	12.47	2E13299-001	SAWL	L450M (X65M)	PSL2	Friday, October 13, 2023	Raj Ayyakannu
103	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2245.1-18	448/483	CAT II	M45C	18.1	7-3399	27101	21-00441	12.38	1E14253-001	SAWL	L450M (X65M)	PSL2	Friday, October 13, 2023	Raj Ayyakannu
104	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2245.1-18	448/483	CAT II	M45C	18.1	6-3879	27080	21-00412	12.48	1E14253-001	SAWL	L450M (X65M)	PSL2	Friday, October 13, 2023	Raj Ayyakannu
105	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2245.1-18	448/483	CAT II	M45C	18.1	6-3879	27042	21-00363	12.41	1E14253-001	SAWL	L450M (X65M)	PSL2	Friday, October 13, 2023	Raj Ayyakannu
106	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2245.1-18	448/483	CAT II	M45C	18.1	6-3398	27051	21-00365	12.46	1E14253-001	SAWL	L450M (X65M)	PSL2	Friday, October 13, 2023	Raj Ayyakannu
107	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2245.1-18	448/483	CAT II	M45C	18.1	6-1911	27095	21-00368	12.47	1E14253-001	SAWL	L450M (X65M)	PSL2	Friday, October 13, 2023	Raj Ayyakannu
108	COMCO	JFE	30	inch	15.9	mm	API SPEC 5L-0052.2	01-22	CSA 2245.1-18	448/483	CAT II	M45C	18.1	6-1874	27001	21-00385	12.48	1E14253-001	SAWL	L450M (X65M)	PSL2	Friday, October 13, 2023	Raj Ayyakannu
																Total Length (M)	1344.27						



Client: TMEP	ID Stencil Not Legible
RINA Job No.: TMP001-	Needs further evaluation
P.O. or REQ No. Joints Delivered in SHAW Camrose Yard	Stencil minimal legibility/Handwritten details missing
Shaw Camrose Yard	Accepted
Prepared By: Raj Ayyakannu	

No	Supplier	Pipe Mfr	OD	OD UOM	WT	WT UOM	API Spec	MFD MM-YY	CSA SPEC	GRADE	CATEGORY	Design Temp	TEST PR	TEST PR UOM	PIPE #	HEAT #	LENGTH	LENGTH UOM	BATCH #	WELD	API GRADE	PIPE TYPE	DATE VERIFIED	INSPECTED BY
1	BHD	SEAH	30	inch	.625	inch	API SPEC 5L-0318	08-19	CSA 2245.1-18	483	CAT II	M45C	18.3	Mpa	1908J1461	P66422	38.5	FT	SPT8281120	SAWL	X70M	PSL2	Friday, October 13, 2023	Raj Ayyakannu
2	BHD	SEAH	30	inch	.625	inch	API SPEC 5L-0318	08-19	CSA 2245.1-18	483	CAT II	M45C	18.3	Mpa	1908J1459	R21422	38.5	FT	SPT8281100	SAWL	X70M	PSL2	Friday, October 13, 2023	Raj Ayyakannu
3	BHD	SEAH	30	inch	.625	inch	API SPEC 5L-0318	08-19	CSA 2245.1-18	483	CAT II	M45C	18.3	Mpa	1908J1460	A020180	38.5	FT	SPT8281110	SAWL	X70M	PSL2	Friday, October 13, 2023	Raj Ayyakannu
4	BHD	SEAH	30	inch	.625	inch	API SPEC 5L-0318	08-19	CSA 2245.1-18	483	CAT II	M45C	18.3	Mpa	1908J1463	A020181	38.5	FT	SPT8281140	SAWL	X70M	PSL2	Friday, October 13, 2023	Raj Ayyakannu
5	BHD	SEAH	30	inch	.625	inch	API SPEC 5L-0318	08-19	CSA 2245.1-18	483	CAT II	M45C	18.3	Mpa	1908J1464	P66422	40	FT	SPT8281150	SAWL	X70M	PSL2	Friday, October 13, 2023	Raj Ayyakannu
6	BHD	SEAH	30	inch	.625	inch	API SPEC 5L-0318	08-19	CSA 2245.1-18	483	CAT II	M45C	18.3	Mpa	1908J1465	P66422	40	FT	SPT8281150	SAWL	X70M	PSL2	Friday, October 13, 2023	Raj Ayyakannu

Note: Test PR not mentioned on ID stencil it was derived from MTR
OD WELD ARE NOT FLUSHED OFF ON THE ENDS



Client: TMEP	ID Stencil Not Legible
RINA Job No.: TMP001-	Needs further evaluation
P.O. or REQ No. Joints Delivered in SHAW Camrose Yard	Stencil minimal legibility/Handwritten details missing
Shaw Camrose Yard	Accepted

No	Supplier	Pipe Mfr	OD	OD UOM	WT	WT UOM	API Spec	MFD MM-YY	CSA SPEC	GRADE	CATEGORY	DWTT	CVN	TEST PR	TEST PR UOM	PIPE #	HEAT #	LENGTH	LENGTH UOM	P/O No.	BATCH #	WELD	API GRADE	PIPE TYPE	DATE VERIFIED	INSPECTED BY
1	COMCO	SEAH	30	inch	625	inch	API SPEC 5L-0318	05-22	CSA Z245.1-18	483	CAT II	M10C	M45C	18.3	Mpa	2205/1620	V221334	40	FT	E1-14293	SPW5211060	SAWL	X70M	PSL2	Friday, October 13, 2023	Raj Ayyakannu
2	COMCO	SEAH	30	inch	625	inch	API SPEC 5L-0318	05-22	CSA Z245.1-18	483	CAT II	M10C	M45C	18.3	Mpa	2205/1622	V221333	40	FT	E1-14293	SPW5211060	SAWL	X70M	PSL2	Friday, October 13, 2023	Raj Ayyakannu
3	COMCO	SEAH	30	inch	625	inch	API SPEC 5L-0318	05-22	CSA Z245.1-18	483	CAT II	M10C	M45C	18.3	Mpa	2205/1619	V221333	38.5	FT	E1-14293	SPW5211070	SAWL	X70M	PSL2	Friday, October 13, 2023	Raj Ayyakannu
4	COMCO	SEAH	30	inch	625	inch	API SPEC 5L-0318	05-22	CSA Z245.1-18	483	CAT II	M10C	M45C	18.3	Mpa	2205/1618	V221334	40	FT	E1-14293	SPW5211060	SAWL	X70M	PSL2	Friday, October 13, 2023	Raj Ayyakannu
5	COMCO	SEAH	30	inch	625	inch	API SPEC 5L-0318	05-22	CSA Z245.1-18	483	CAT II	M10C	M45C	18.3	Mpa	2205/1621	V221334	40	FT	E1-14293	SPW5211060	SAWL	X70M	PSL2	Friday, October 13, 2023	Raj Ayyakannu
6	COMCO	SEAH	30	inch	625	inch	API SPEC 5L-0318	05-22	CSA Z245.1-18	483	CAT II	M10C	M45C	18.3	Mpa	2205/1617	V221334	38.5	FT	E1-14293	SPW5211050	SAWL	X70M	PSL2	Friday, October 13, 2023	Raj Ayyakannu


Note: Both CVN & DWTT temp are specified on the ID stencil
 OD WELD ARE NOT FLUSHED OFF ON THE ENDS
 Note: Test PR not mentioned on ID stencil it was derived from MTR



Client: TMEP	ID stencil & MTR info varies	ID Stencil Not Legible
RINA Job No.: TMP001-	Information not on ID stencil	MTR missing
P.O. or REQ. No. Joints Delivered in SHAW Camrose Yard		Stencil minimal legibility/Handwritten details missing
Shaw Camrose Yard		Accepted


Prepared By: Raj Ayyakannu

No	Supplier	Pipe Mfr	OD	OD UOM	WT	WT UOM	API Spec	MFD MM-YY	CSA SPEC	GRADE	CATEGORY	Design Temp	TEST PR	TEST PR UOM	PIPE #	HEAT #	LENGTH	LENGTH UOM	BATCH #	WELD	API GRADE	PIPE TYPE	PO #	DATE VERIFIED	INSPECTED BY	Comments
1	VAN LEEUWEN	SEAH	30	inch	625	inch	API SPEC SL-0318	04-19	CSA 2245 1-18	483	CAT II	M45C	18.3	Mpa	1904J1153	P66417	40	FT	SPT4181110	SAWL	X70M	PSL2	45002003	Saturday, October 14, 2023	Raj Ayyakannu	
2	VAN LEEUWEN	SEAH	30	inch	625	inch	API SPEC SL-0318	04-19	CSA 2245 1-18	483	CAT II	M45C	18.3	Mpa	1904J1150	P66417	40	FT	SPT4181110	SAWL	X70M	PSL2	45002003	Saturday, October 14, 2023	Raj Ayyakannu	
3	VAN LEEUWEN	SEAH	30	inch	625	inch	API SPEC SL-0318	04-19	CSA 2245 1-18	483	CAT II	M45C	18.3	Mpa	1904J1147	P66422	40	FT	SPT4181080	SAWL	X70M	PSL2	45002003	Saturday, October 14, 2023	Raj Ayyakannu	
4	VAN LEEUWEN	SEAH	30	inch	625	inch	API SPEC SL-0318	04-19	CSA 2245 1-18	483	CAT II	M45C	18.3	Mpa	1904J1152	P66426	40	FT	SPT4181050	SAWL	X70M	PSL2	45002003	Saturday, October 14, 2023	Raj Ayyakannu	
5	VAN LEEUWEN	SEAH	30	inch	625	inch	API SPEC SL-0318	04-19	CSA 2245 1-18	483	CAT II	M45C	18.3	Mpa	1904J1145	R03164	38.5	FT	SPT4181070	SAWL	X70M	PSL2	45002003	Saturday, October 14, 2023	Raj Ayyakannu	
6	VAN LEEUWEN	SEAH	30	inch	625	inch	API SPEC SL-0318	01-18	CSA 2245 1-14	483	CAT II	M45C	18.3	Mpa	1801J0751	Q5807166	38.5	FT	SP51131120	SAWL	X70M	PSL2	45001881	Saturday, October 14, 2023	Raj Ayyakannu	
7	VAN LEEUWEN	SEAH	30	inch	625	inch	API SPEC SL-0318	02-18	CSA 2245 1-14	483	CAT II	M45C	18.3	Mpa	1802J0213	PK512554	40	FT	SP52032050	SAWL	X70M	PSL2	45001881	Saturday, October 14, 2023	Raj Ayyakannu	
8	VAN LEEUWEN	SEAH	30	inch	625	inch	API SPEC SL-0318	04-19	CSA 2245 1-18	483	CAT II	M45C	18.3	Mpa	1904J1151	P66422	40	FT	SPT4181080	SAWL	X70M	PSL2	45002003	Saturday, October 14, 2023	Raj Ayyakannu	
9	VAN LEEUWEN	SEAH	30	inch	625	inch	API SPEC SL-0318	04-19	CSA 2245 1-18	483	CAT II	M45C	18.3	Mpa	1904J1143	P66422	38.5	FT	SPT4181080	SAWL	X70M	PSL2	45002003	Saturday, October 14, 2023	Raj Ayyakannu	
10	VAN LEEUWEN	SEAH	30	inch	625	inch	API SPEC SL-0318	04-19	CSA 2245 1-18	483	CAT II	M45C	18.3	Mpa	1904J1149	P66417	38.5	FT	SPT4181100	SAWL	X70M	PSL2	45002003	Saturday, October 14, 2023	Raj Ayyakannu	
11	VAN LEEUWEN	SEAH	30	inch	625	inch	API SPEC SL-0318	01-18	CSA 2245 1-18	483	CAT II	M45C	18.3	Mpa	1801J0749	A003831	40	FT	SP51131110	SAWL	X70M	PSL2	45001881	Saturday, October 14, 2023	Raj Ayyakannu	
12	VAN LEEUWEN	SEAH	30	inch	625	inch	API SPEC SL-0318	02-18	CSA 2245 1-14	483	CAT II	M45C	18.3	Mpa	1802J0214	PK512554	38.5	FT	SP52032060	SAWL	X70M	PSL2	45001881	Saturday, October 14, 2023	Raj Ayyakannu	
13	VAN LEEUWEN	SEAH	30	inch	625	inch	API SPEC SL-0318	04-19	CSA 2245 1-18	483	CAT II	M45C	18.3	Mpa	1904J1148	R03164	40	FT	SPT4181090	SAWL	X70M	PSL2	45002003	Saturday, October 14, 2023	Raj Ayyakannu	
14	VAN LEEUWEN	SEAH	30	inch	625	inch	API SPEC SL-0318	01-18	CSA 2245 1-14	483	CAT II	M45C	18.3	Mpa	1801J0745	A003831	38.5	FT	SP51131080	SAWL	X70M	PSL2	45001881	Saturday, October 14, 2023	Raj Ayyakannu	
15	VAN LEEUWEN	SEAH	30	inch	625	inch	API SPEC SL-0318	01-18	CSA 2245 1-14	483	CAT II	M45C	18.3	Mpa	1801J0747	Q5807160	40	FT	SP51131100	SAWL	X70M	PSL2	N/A	Saturday, October 14, 2023	Raj Ayyakannu	
16	VAN LEEUWEN	SEAH	30	inch	625	inch	API SPEC SL-0318	01-18	CSA 2245 1-14	483	CAT II	M45C	18.3	Mpa	1801J0601	A003831	40	FT	SP51131110	SAWL	X70M	PSL2	45001881	Saturday, October 14, 2023	Raj Ayyakannu	ID STENCIL MINIMAL LEGIBILITY

 TRANS MOUNTAIN 01-13283-GG-0000-RPT-PR-0003	Trans Mountain Expansion Project	Date:	2019-07-23
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**ATTACHMENT 1
VENDOR LIST DEVIATION REQUEST FORM**

VENDOR NAME AND CONTACT INFORMATION:		
Berg Pipe Panama City Corp		
WHAT RFQ PACKAGES WILL THIS VENDOR BID ON?		
19731-506-MRQ-00077 Rev0_Additional NPS 30 pipe Signed		
HAS THIS VENDOR ACHIEVED THE PROJECT PRE-QUALIFICATION REQUIREMENTS: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		
COMMENTS / JUSTIFICATION / DETAILS:		
Detailed justification can be found in Design Change Notice 01-13283-S5B-M002-PL-DCN-0015_R0		
CONTRACTOR PROCUREMENT MANAGER: (Name / Signature)	APPROVED: YES <input type="checkbox"/> NO <input type="checkbox"/>	DATE:
CONTRACTOR DISCIPLINE ENGINEER: (Name / Signature)	APPROVED: YES <input type="checkbox"/> NO <input type="checkbox"/>	DATE:
CONTRACTOR QUALITY LEAD: (Name / Signature) N/A - TMEP Procured Material	APPROVED: YES <input type="checkbox"/> NO <input type="checkbox"/>	DATE:
CONTRACTOR PROJECT ENGINEER: (Name / Signature)	APPROVED: YES <input type="checkbox"/> NO <input type="checkbox"/>	DATE:
CONTRACTOR PROJECT MANAGEMENT: (Name / Signature)	APPROVED: YES <input type="checkbox"/> NO <input type="checkbox"/>	DATE:
COMMENTS:		
TMEP PROCUREMENT: (Name / Signature) <i>[Signature]</i>	APPROVED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	DATE: 2023 Nov 29
TMEP SCM MANAGER: (Name / Signature) Ryan McFadden <i>[Signature]</i>	APPROVED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	DATE: 2023-Nov-29
TMEP DISCIPLINE ENGINEER: (Name / Signature) SIMON KIRKLAND <i>[Signature]</i>	APPROVED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	DATE: 2023-Nov-27
TMEP QUALITY LEAD: (Name / Signature) Daniel Rideout <i>[Signature]</i>	APPROVED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	DATE: 2023-11-29
TMEP PROJECT ENGINEER: (Name / Signature) RAY DOERING <i>[Signature]</i>	APPROVED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	DATE: 28 Nov, 2023
TMEP PROJECT MANAGEMENT: (Name / Signature) Jim Huber <i>[Signature]</i>	APPROVED: YES <input checked="" type="checkbox"/>	DATE: 11/29/23

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	NO <input type="checkbox"/>	
COMMENTS:		
ATTACHEMENT:		

ATTACHMENT 1
VENDOR LIST DEVIATION REQUEST FORM

VENDOR NAME AND CONTACT INFORMATION:		
SeAH Steel Corp		
WHAT RFQ PACKAGES WILL THIS VENDOR BID ON?		
19731-506-MRQ-00077 Rev0_Additional NPS 30 pipe Signed		
HAS THIS VENDOR ACHIEVED THE PROJECT PRE-QUALIFICATION REQUIREMENTS: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		
COMMENTS / JUSTIFICATION / DETAILS:		
Detailed justification can be found in Design Change Notice 01-13283-S5B-M002-PL-DCN-0015_R0		
CONTRACTOR PROCUREMENT MANAGER: (Name / Signature)	APPROVED: YES <input type="checkbox"/> NO <input type="checkbox"/>	DATE:
CONTRACTOR DISCIPLINE ENGINEER: (Name / Signature)	APPROVED: YES <input type="checkbox"/> NO <input type="checkbox"/>	DATE:
CONTRACTOR QUALITY LEAD: (Name / Signature) N/A - TMEP Procured Material	APPROVED: YES <input type="checkbox"/> NO <input type="checkbox"/>	DATE:
CONTRACTOR PROJECT ENGINEER: (Name / Signature)	APPROVED: YES <input type="checkbox"/> NO <input type="checkbox"/>	DATE:
CONTRACTOR PROJECT MANAGEMENT: (Name / Signature)	APPROVED: YES <input type="checkbox"/> NO <input type="checkbox"/>	DATE:
COMMENTS:		
TMEP PROCUREMENT: (Name / Signature)	APPROVED: YES <input type="checkbox"/> NO <input type="checkbox"/>	DATE:
TMEP SCM MANAGER: (Name / Signature) Ryan McFadden	APPROVED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	DATE: 2023-Nov-29
TMEP DISCIPLINE ENGINEER: (Name / Signature) Simon Kirkland	APPROVED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	DATE: 2023-Nov-27
TMEP QUALITY LEAD: (Name / Signature) Daniel Rideout	APPROVED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	DATE: 2023-11-29
TMEP PROJECT ENGINEER: (Name / Signature) RAY DOERING	APPROVED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	DATE: 28 Nov, 2023
TMEP PROJECT MANAGEMENT: (Name / Signature) Jim Huber	APPROVED: YES <input checked="" type="checkbox"/>	DATE: 11.29.23


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	NO <input type="checkbox"/>	
COMMENTS:		
ATTACHEMENT:		

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**ATTACHMENT 1
VENDOR LIST DEVIATION REQUEST FORM**

VENDOR NAME AND CONTACT INFORMATION:		
Ezefflow		
WHAT RFQ PACKAGES WILL THIS VENDOR BID ON?		
19731-506-MRQ-00077 Rev0_Additional NPS 30 pipe Signed		
HAS THIS VENDOR ACHIEVED THE PROJECT PRE-QUALIFICATION REQUIREMENTS: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		
COMMENTS / JUSTIFICATION / DETAILS:		
Detailed justification can be found in Design Change Notice 01-13283-S5B-M002-PL-DCN-0015_R0		
CONTRACTOR PROCUREMENT MANAGER: (Name / Signature)	APPROVED: YES <input type="checkbox"/> NO <input type="checkbox"/>	DATE:
CONTRACTOR DISCIPLINE ENGINEER: (Name / Signature)	APPROVED: YES <input type="checkbox"/> NO <input type="checkbox"/>	DATE:
CONTRACTOR QUALITY LEAD: (Name / Signature) N/A - TMEP Procured Material	APPROVED: YES <input type="checkbox"/> NO <input type="checkbox"/>	DATE:
CONTRACTOR PROJECT ENGINEER: (Name / Signature)	APPROVED: YES <input type="checkbox"/> NO <input type="checkbox"/>	DATE:
CONTRACTOR PROJECT MANAGEMENT: (Name / Signature)	APPROVED: YES <input type="checkbox"/> NO <input type="checkbox"/>	DATE:
COMMENTS:		
TMEP PROCUREMENT: (Name / Signature)	APPROVED: YES <input type="checkbox"/> NO <input type="checkbox"/>	DATE:
TMEP SCM MANAGER: (Name / Signature) Ryan McFadden	APPROVED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	DATE: 2023-Nov-29
TMEP DISCIPLINE ENGINEER: (Name / Signature) SIMONA KIRKLAND	APPROVED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	DATE: 2023-Nov-27
TMEP QUALITY LEAD: (Name / Signature) Daniel Rideout	APPROVED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	DATE: 2023-11-29
TMEP PROJECT ENGINEER: (Name / Signature) RAY DOERIKS	APPROVED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	DATE: 28 Nov 2023
TMEP PROJECT MANAGEMENT: (Name / Signature) Jim Huber	APPROVED: YES <input checked="" type="checkbox"/>	DATE: 11/29/23

 TRANSMOUNTAIN 01-13283-GG-0000-RPT-PR-0003	Trans Mountain Expansion Project Approved Vendor List Deviation Procedure	Date:	2019-07-23
		Revision No.:	1
		Page	7 of 7

		NO <input type="checkbox"/>	
COMMENTS:			
ATTACHEMENT:			

From: [REDACTED]
Sent: Friday, October 6, 2023 3:01 PM
To: [REDACTED]
Cc: [REDACTED]
Subject: RE: M3 - 30" x .625W X70 Pipe

Importance: High

Hi [REDACTED] and [REDACTED]

As per our discussion today , we will need to inspect the proposed pipe and confirm heat numbers to be able to estimate the time required for the Charpy testing which might be the time consuming issue in this process depending on the number of tests.

This is in addition to the other inspections requirements, i.e. dents , corrosion, etc as stated here below.

[REDACTED] to please let us know if you are in agreement to proceed .

[REDACTED] | P.Eng. Independent Contractor
UniversalPegasus International | w: [REDACTED]
www.universalpegasus.com

 My Email Has Changed: [REDACTED]@UPICorp.ca

From: [REDACTED]
Sent: Friday, October 6, 2023 1:27 PM
To: [REDACTED]
Cc: [REDACTED]
Subject: M3 - 30" x .625W X70 Pipe
Importance: High

[REDACTED] and [REDACTED] –

Per our discussion on the CVN value of 0deg.C on the offered pipe:

- The CVN should be retested to -6degC per TMEP Spec.
- The offered pipe is second-hand pipe, applied with ARO coating
- The pipe is from a cancelled project in the USA and some of it had been purchased by a USA stockist
- The status of the pipe should be inspected by a third party inspection company in order to ensure:
 - Pipe and Heat numbers are fully legible from the mill stencils (found in ID of pipe)
 - Ascertain all MTRs are available against the pipe/heat numbers
 - Ascertain how many heat numbers are entailed that make up the 1,261m/4,137ft requirement
 - Inspect for dents, gouges, excessive corrosion, ovality, etc
- If the pipe deemed to be acceptable, pipe will require cutting (at yard in Three Rivers, TX) and coupons sent to a Houston lab for CVN testing. Each heat number would require testing.
- The testing and results would likely take 2-3 weeks

- Once CVN is verified to -6deg.C, pipe would be trucked up from TX to Shaw Coaters
- Shaw would require to strip off the existing ARO prior to coating to TMEP Spec. ARO removal requires some time.

Based on the above, please advise direction. Note that TPI out of Houston can be arranged very quickly as well as source reputable labs in Houston.

FYI, estimated cost of the subject pipe + trucking to Shaw from TX = C\$1,300,000.

Thanks,

[REDACTED]

[REDACTED]

Sr. Procurement Specialist, Pipeline, SCM
Contractor/Consultant

[REDACTED]

E: [REDACTED]

Trans Mountain Corporation

Toll Free: 1.866.514.6700 | [E:info@transmountain.com](mailto:info@transmountain.com) | W: transmountain.com

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From: [REDACTED]

Sent: Friday, October 6, 2023 9:30 AM

To: [REDACTED]

Cc: [REDACTED]

Subject: 30" x .625W X70 Pipe

Importance: High

[REDACTED] – As per our conversation – I knew you be asking for MTRs so had my vendor (CFP) supply it per attached.

Please note:

- To replace the 12.7mm, the quantity required of the 15.9mm out of Houston is 1,261m/4,137ft
- I have asked CFP to go to the Houston stockist to confirm whether or not the pipe is still available (TBA)
- The Houston pipe is:
 - API 5L-X70 PSL-2 LSAW Coated with ARO DRL (one end of each joint may be square cut)
 - CVN 32F/0deg.C
 - DWTT 14F/-10deg.C
 - Quantity available 2 weeks ago: 5800ft
 - Manufacturer: Berg USA
 - Plate Manufacturer: Arcelor-Mittal (AMA)
- May require CVN testing to have a lab in Houston verify/certify to -5deg.C for each heat found within the 4,137ft

- This could possibly take min. 2-3weeks (to cut coupons, take samples to lab, do testing, wait for results), unless engineering justification can be made to get this waived

Regards,

[REDACTED]

[REDACTED]

Sr. Procurement Specialist, Pipeline, SCM

Contractor/Consultant

[REDACTED]

E: [REDACTED]

Trans Mountain Corporation

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From: [REDACTED]

Sent: Friday, October 6, 2023 9:06 AM

To: [REDACTED]

Subject: 30" x .625W X70 Pipe

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Approx 5845' 30" X.625 API 5LX70 ARO CTD BERG M&M NO MID WELDS-

Technical notes:

API 5L X70 PSL2 LSAW

CVN 32F (0C)

DWTT 14F (-10C)

[REDACTED]

Sr. Vice President

[REDACTED]

****PLEASE NOTE NEW OFFICE PHONE NUMBER BELOW****

Calgary Branch [REDACTED]

[REDACTED]

e-mail [REDACTED]

website www.cfpindustries.com

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