Questions Received regarding Risk Analysis Request for Information and Proposals
and State Responses

The questions below were received from potential contractors. State responses are provided in italics.

1. Does the project have an award value ceiling?

   No.

2. Is the location for the worst case scenario already known? If so, do impacts to sensitive populations (hospitals, elderly/disabled, school children) need to be considered?

   The location of potential releases to be considered in evaluating a worst case scenario is the Straits Pipelines as described in the Michigan Petroleum Pipeline Task Force Report and the 1953 Pipeline Easement contained in Appendix A. 1. to the Report. The location of the Pipelines and Easement is depicted at page 40 of the Report and in Attachment 1 to this document. As described in Part II-A through C, the Scope of Work includes a systematic, step-wise evaluation of worst-case release scenario, beginning from the source of the potential release, and analyzing the fate and transport of the released material in the environment. As described in Part II, the Scope of Work also includes, among other things, analyzing short and long term public health and safety impacts. This would include impacts to sensitive populations within the area that would be potentially affected in a worst-case release scenario.

3. Is there a preference in cost structure (fixed price, T&M, etc.)

   The Proposed Budget is expected to be a fixed price, not a time and materials estimate. The Deliverables noted in Part II-D will include preparation of: (1) at least one, and possibly two, draft reports; (2) at least one, and possibly two, public information presentations, one on each draft report; (3) at least one, and possibly two, responses to public comments, one on each draft reports; and (4) the final report.

4. Is the worst case spill limited to under-water release only, or should onshore pipelines and related facilities also be included in the analysis?

   The location of potential releases to be considered in evaluating a worst case scenario is the Straits Pipelines as described in the Michigan Petroleum Pipeline Task Force Report and the 1953 Pipeline Easement contained in Appendix A. 1. to the Report. The location of the Pipelines and Easement is depicted at page 40 of the Report and in Attachment 1 to this document.

5. Is any preference given to contractors that can respond to both RFIs versus only one?

   No. Prospective contractors are free to respond to one or both Requests for Information and Proposals. A separate Proposed Budget must be provided for each Response.

6. Is any additional information available on the level of funding available for the work?

   No.

7. Has the funding to support the work been secured? If not, what is the timeline for securing the funding?

   Funding sources for the work have been identified. Funding will be secured before any contract to perform the work is entered.

8. Is any additional information available on a preferred timeline for the work?

   The State's objective is to complete the project described in the Scope of Work as efficiently and promptly as possible, and in any event, not later than June 1, 2017. The Proposed Schedule to be provided under II-E should include a minimum 30 day public comment period on each of the draft reports and time for the contractor and the State to consider the comments received.

9. What information/data will the State and/or Enbridge make available for this work?

   As described Enbridge's responses to information requests from the State appended to the Michigan Petroleum Pipeline Task Force Report, and publicly described by Enbridge in Tables 2 and 3 of Enbridge's Operational Reliability Plan- Line 5 and Line 5 Straits of Mackinac Crossing, accessed at

https://www.enbridgepartners.com/~/media/7FDCBAC7A8FE4705A2729F3D1B51B6B3.ashx , Enbridge has performed a number of inspections of the pipelines. Some of that information is contained in Appendices B.2. and B.4. to the Report. Enbridge has posted summaries of some of the 2013 inspection information at

- *http://www.enbridge.com/projects-and-infrastructure/public-awareness/line-5-michigan/safeguarding-the-great-lakes/inspections/inline-inspection-results; and*
- *http://www.enbridge.com/projects-and-infrastructure/public-awareness/line-5-michigan/safeguarding-the-great-lakes/inspections/inline-inspection-results/results-cracking .*

The State has also requested additional information from Enbridge. See Attachment 2 to this document. That and all other relevant information available to the State will be provided to the contractor. The State will work with the contractor to obtain from Enbridge additional information as needed to complete the work.

10. What indirect cost or facilities & administrative rate will rate will apply?

The Proposed Budget is expected to be a fixed price, not a time and materials estimate.

ATTACHMENT 1

165

—PLAN—

APPROXIMATE LOCATION OF SUBMARINE CABLE

GREEN ISLAND

TRIANGULATION STA. "GREEN" (U.S.L.S.) LAT. 45° 50' 07.333" LONG. 84° 44' 57.841"

S 18° 48' 12" W 18,577.95'

S 84° 55' 30" E 114.0'

S 49° 15' 15" E 26.4'

S 14° 53' 52" W 19,141.0'
SHORELINE TO SHORELINE

S 14° 37' 14" W

S 14° 37' 14" W 19,465.0'
SHORELINE TO SHORELINE

20" OIL PIPE LINE

20" OIL PIPE LINE

APPROXIMATE LOCATION OF SUBMARINE CABLE

MUD FLAT

OWNER: Estate of Jacobine McGinnis
N. Edward G. McGinnis, 406 Church
St. Ignace, Michigan

POINT ST. IGNACE

POINT LA BARBE

OWNER: Detroit Trust Company
Detroit, Michigan

STRAITS OF MACKINAC

FLOW

N

45° 50'

45° 49'

45° 48'

84° 45'

84° 40'

OWNER: Stella Harding
Mackinac City, Michigan

Mc GULPIN POINT

TRIANGULATION STA. "A MACKINAC WEST BASE" (U.S.L.S.)
LAT. 45° 47' 18.328"
LONG. 84° 46' 22.482"

OWNER: Grace R. Chamberlain
& wife Lena C.
Grand Rapids, Michigan

MACKINAW CITY

CORNELLS CREEK

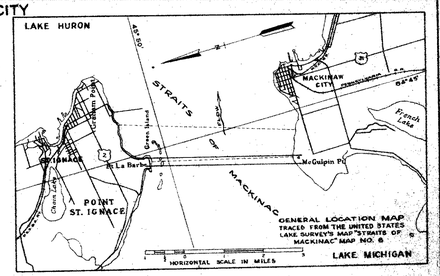
Geo. E. Cornell
ORCHARD

GATE VALVE

HORIZONTAL SCALE IN FEET

NOTES

1. Elevations and soundings shown hereon are based on an elevation of 578.5 ft. for the water surface of the Straits of Mackinac which is the Low Water Datum of Lake Huron and Michigan as referred to Mean Tide at New York; 1935 Datum.
2. Topographic detail has been compiled by photogrammetric methods from aerial photographs dated Oct. 1952 and from U.S. Lake Survey Chart No. 60.
3. Soundings furnished by U.S. Lake Survey Nov. 1952.



GENERAL LOCATION MAP
TRACED FROM THE UNITED STATES LAKE SURVEY'S MAP "STRAITS OF MACKINAC" MAP NO. 6

DATE	REVISION
APR. 1953	RELOCATED EASTERLY 20" OIL PIPE LINE.

PROPOSED
TWO 20" O.D. CRUDE OIL PIPE LINES
ACROSS THE STRAITS OF MACKINAC BETWEEN McGULPIN PT., EMMET CO. AND PT. LA BARBE, MACKINAC CO.
APPLICATION BY
LAKEHEAD PIPE LINE COMPANY, INC.
BECHTEL CORPORATION, AGENT

SHEET 1 MAR. 14, 1953

Prepared by LOCKWOOD, KESSLER & BARTLETT, INC. Engineers - Great Neck, N.Y.

L-2316

ATTACHMENT 2

BILL SCHUETTE
ATTORNEY GENERAL
STATE OF MICHIGAN

March 11, 2016

Cynthia Hansen
Senior Vice President
Operations Liquid Pipelines
Enbridge Energy
10201 Jasper Avenue N.W.
Edmonton, Alberta
Canada T5J 2J9

Re: Enbridge Line 5 Pipelines at the Straits of Mackinac

Dear Ms. Hansen:

As you know, the State of Michigan has previously requested and received from Enbridge various information related to Enbridge's Line 5 pipelines at the Straits of Mackinac. We appreciate Enbridge's past cooperation in that regard.

We write now to request additional information for several reasons.

- First, and foremost, as explained in the 2015 *Michigan Petroleum Pipeline Task Force Report*, the State and its citizens have serious, continuing concerns about potential risks to Michigan's environment and economy presented by the Straits Pipelines.

- Second, much of the information referenced in Enbridge's June 27, 2014 response to the State's initial request was made available through a read-only data portal, severely limiting its usefulness. As noted in the *Task Force Report,* we do not agree with Enbridge's assertion that all the documents in question constitute critical energy infrastructure information protected from public disclosure under applicable law or "confidential business information." On the contrary, as referenced in the list of additional documents requested in Attachment A and in the list of read-only files requested in Attachment B, many of these documents can and should be provided to the State in unrestricted form.

- Third, there is a need to update our previous information requests to address subsequent events and conditions.

- Fourth, as again noted in the *Task Force Report,* additional issues and concerns regarding the Straits Pipelines have arisen since Enbridge responded to our previous information requests.

- Finally, as you are aware, the State is in the process of implementing the *Task Force Report* recommendations to conduct independent risk and alternatives analyses for the Straits Pipelines. The additional information requested here will also be needed by the contractors who ultimately conduct those analyses.

For all of these reasons, we request that Enbridge, provide the State of Michigan with copies of all of the documents identified in Attachments A and B to this letter. The additional documents requested in Attachment A are organized by the following topics:

1. In-line pipeline inspections.
2. External pipeline inspections with remotely operated vehicles.
3. Pipeline integrity and replacement.
4. Pipeline operating pressure.
5. Effects of mussels attached to the Straits Pipelines.

As noted above, Attachment B identifies certain files included in the read-only web portal referenced in Enbridge's June 27, 2014 response that the State believes do not constitute legally protected critical energy infrastructure information and that the State accordingly requests Enbridge to provide in unrestricted form.

Pleases provide the requested documents within 30 days of the date of this letter. As a practical matter, because of the volume of documents requested and the very large size of some of the files, it may be most efficient to provide some of them by means of one or more external hard drives, like those used to transmit copies of videos of the 2012 external pipeline inspections.

If Enbridge would like to discuss this request for information, please contact Assistant Attorney General Robert Reichel at 517-373-7540. Thank you for your attention to this matter and your anticipated cooperation.

Sincerely,

Bill Schuette	Keith Creagh	William Moritz
Attorney General	Interim Director	Interim Director
Department of	Department of	Department of
Attorney General	Environmental Quality	Natural Resources

RPR:neh

Attachments

ATTACHMENT A

Additional Documents Requested by the State of Michigan

1. **<u>In-line pipeline inspections</u>**

    a. All reports of , and data collected in, each in-line inspection of Line 5 conducted to date, including, without limitation, those listed in Tables 2 and 3 of Enbridge's *Operational Reliability Plan- Line 5 and Line 5 Straits of Mackinac Crossing,* accessed at https://www.enbridgepartners.com/~/media/7FDCBAC7A8FE4705A2729F3D1B51B6B3.ashx

    b. Any and all assessments, evaluations or reviews of the in-line inspections referenced in 1.a. by Enbridge or by third parties.

    c. All reports of, and data collected in, any excavations or field assessments resulting from in-line inspections, including, without limitation, those referenced at page 8 of Enbridge's June 27, 2014 response.

2. **<u>External pipeline inspections with remotely operated vehicles.</u>**

    a. All film, videos, or other documentation of remotely operated vehicle inspections of the Straits Pipelines listed in Table 2 of Enbridge's June 27, 2014 response, except the video of the 2012 inspection already provided at the time of that response, plus those of any subsequent inspections.

b. Any and all assessments, evaluations, or reviews of the external pipeline inspections requested in 2.a. by Enbridge or third parties.

3. **<u>Pipeline integrity and replacement</u>**

   a. The current version of Enbridge's procedure PI-69, Procedure for Pipeline Replacement Assessments referenced at page 3 of Enbridge's June 27, 2014 response.

   b. Any and all documents relating to Enbridge's application of procedure PI-69 to Line 5 as described at page 3 of Enbridge's June 27, 2014 response.

   c. Any and all other documents describing the procedures and criteria that would used by Enbridge to determine whether and when to repair or replace any portion of Line 5, and Enbridge's application of those procedures and criteria to Line 5.

4. **<u>Pipeline operating pressure</u>**

   a. Any and all documents supporting Enbridge's statement at page 12 of its June 27, 2014 response that "Enbridge…[has] operated the [Straits Pipelines] over the years at approximately 25% of their Maximum Operating Pressure."

   b. Any and all documents relating changes made by Enbridge to allowable operating pressure for the Straits Pipelines.

5. **<u>Effects of mussels attached to the Straits Pipelines</u>**

a. Any and all documents relating to effects that the attachment of mussels to the Straits Pipelines have on Enbridge's ability to perform external inspections of their condition and measures, if any, taken by Enbridge to overcome those effects.

b. Any and all documents relating to the effects that the attachment of mussels to the Straits Pipelines and potential secretions from mussels may have on the physical condition and integrity of the Pipelines and measures, if any, taken by Enbridge to monitor or mitigate those effects.

ATTACHMENT B

Documents Requested from the Web Portal

Folder A1b

Files 3.1.2 and 3.1.3 Dredging Reports 1953- not labeled Critical Energy Infrastructure Information (CEII)

File 3.6.1 Management Change Form 2012- not labeled CEII

Files 3.7.2-3.73 Construction Reports- not labeled CEII

Files 3.8.1-3.8.12 Construction Progress Reports- not labeled CEII

Files 3.13.4- 3.13.17 Contract Agreement regarding Cathodic Protection-not labeled CEII

Folder A1d

Files 5.1-5.12 Construction Photos- not labeled CEII

Folder A2

Files 6.1- 6.15 Underwater Inspection Reports and Span Logs- labeled CEII but only shows history of spans.

Files 6.16- 6.19 Span Logs- not labeled CEII

Folder A3

Files 7.1- 7.8 Underwater Visual Inspection Reports, anchor design- not labeled CEII

Folder A4

File 8.3 Procedure for Pipeline Replacement Assessments- not labeled CEII

Folder C1

Files 12.1- 12.7 In Line Inspection Reports- not labeled CEII

Files 12.8.1- 12.8.19 ROV Inspections Pipeline Support Surveys- Labeled CEII but only shows history of spans, supports

Folder D2

File 13.1 Summary of Pipeline Control Measures- not labeled CEII

File 13.2 2013 Spill Modeling Report- not labeled CEII

Folder E1-E3

File 14.2 Emergency Response Action Plan- not labeled CEII and referred to as "for public use" in June 2014 Enbridge response, p.20

Files 14.3- 14.5 Response Times, Equipment and Manpower- not labeled CEII

Folder E 4

Files 15.1- 15.11 Cleanup Cost Estimates – not labeled CEII