May 2018 Briefing to CEO and EVP by email

The P75 cost risk range was \$5.67B to \$5.87B assuming summer, winter wetland capping respectively. The large strategic risk of \$2B+ for all soil removal from the reservoir was not included.

The AFE was not updated

This briefing was to provide the CEO and EVP with the results of the Cost and Schedule QRA carried out in May 2018 by Westney Consulting Group.

The email had an attached deck which provided Summary information of the QRA results as follows:

Cost Risk

MFG P75 costs have increased to \$5.67B from the previous AFE of \$5.5B due to factors outside of Project management control – specifically Government Directives to date, Impact of Judicial Inquiry and Minimum Wetland Capping (in Summer)

In addition there is a further \$200M risk exposure from external sources outside of Project management control, specifically if the minimum amount of wetland capping was to be performed in winter conditions which would result in a delay of one year to the project – this was considered to be a conservative view of additional costs and did not include the extension of time claims, lost revenue and Owners costs.

In addition to the costs noted above there remains the risk that the GNL as recommended by the IEAC will require the removal of all soil from the reservoir , with an estimated cost of \$2B.



QRA May 2018 C1

Paul Harrington to: Stan Marshall, Gilbert Bennett
Co: Ron Power, Scott O'Brien, Lance Clarke, Tanya Power

05/14/2018 04:56 PM

Please find attached the results of the May 2018 Cost and schedule QRA Regards Paul



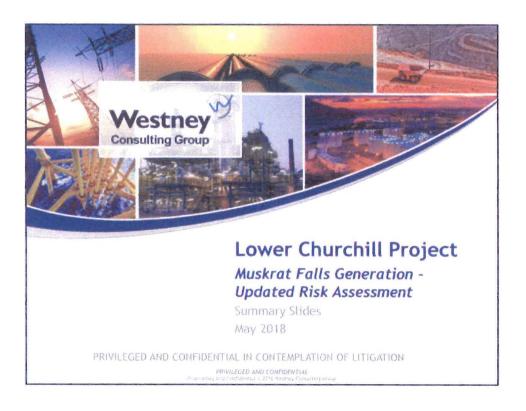
Nalcor Cost QRA Summary Slides V_1.pptx

Paul Harrington
Project Director (Consultant to LCMC)
PROJECT DELIVERY TEAM
Lower Churchill Project

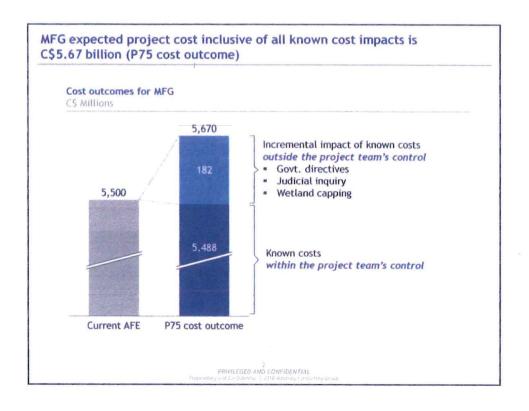
t. 709 737-1907 c. 709 682-1460 f. 709 737-1985

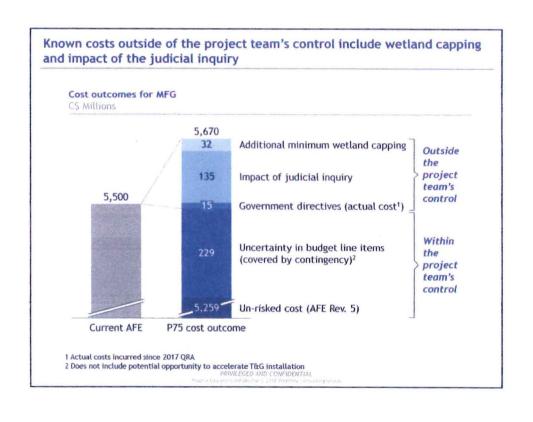
e. PHarrington@lowerchurchillproject.ca

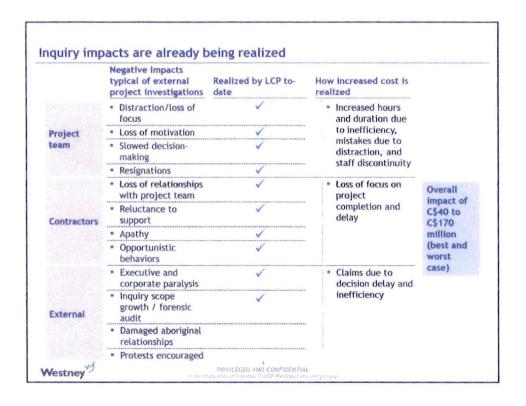
w. muskratfalls.nalcorenergy.com

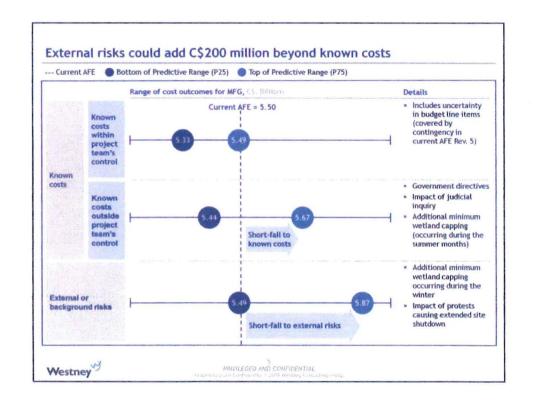


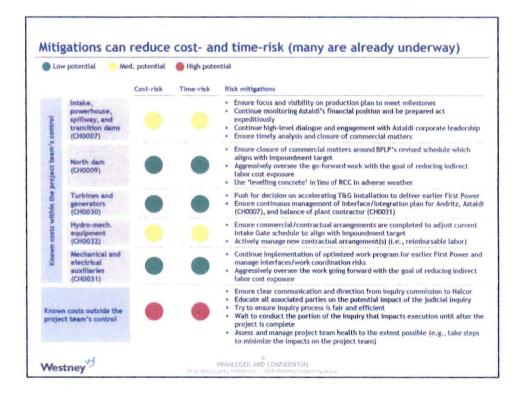
| Cost-risk | Status of analysis | | Key findings | |
|-----------|------------------------------|------------|---|---|
| | Complete | | MFG expected project cost is C\$5.67 billion (P75 cost outcome has increased due to factors outside the project team's control) External risks could add C\$200 million more (above the C\$5.67 billion) | |
| Time-risk | • Ir | n-progress | *** | The probability of achieving the November 2019 First Power date is very high |











Disclaimer

The analysis in this report was developed by Westney Consulting Group (Westney) in concert with the project team using project documents and interviews.

Westney has had varying levels of involvement on this project since 2008, providing us with good general knowledge of the project.

For probabilistic analysis, the Westney Risk Resolution® process and proprietary distributions were used.

Any expressed opinions or recommendations expressed by Westney herein are the product of the experience of the Westney consultant(s) and are provided as input and information for decisions; any reliance upon or decisions made from the information is the sole judgment/decision of the user of the information.

PRIVILEGED AND CONFIDENTIAL
Societion and Continents of State Western Industrial