

## MOC for Straits Of Mackinaw Pressure Settings

### Description

Pressure on the pipes crossing the Straits of Mackinaw on Line 5 have been restricted to 425 psi for the past several years due to the perception that, under no circumstances, could the pressure exceed 600 psi as specified by the Michigan State Commerce Commission. The 425 psi setting was chosen based on calculations that proved the pressure would never exceed 600 psi, even under transient, or abnormal operating conditions. The 425 psi is enforced with a SCADA High Pressure Shutdown=425 psi and a restriction in the EBSS line description=425 psi at MP 1479. While the 425 psi setting ensures no pressure excursions above 600 psi, this restriction makes it difficult to operate the pipeline and results in inadvertent shutdowns of the line and contributes to overpressures upstream of Manistique. Documentation has been recently located which suggests that the Maximum Operating Pressure (MOP) in this section of pipe is 600 psi. This means that the setting at the Straits could be potentially increased up to 600 psi, provided that transients did not exceed 660 psi (110% of MOP). This increased setting would improve the operability of the pipeline and result in fewer shutdowns and overpressures.

### Historical Events

Record of past High Pressure Shutdowns at MP 1479:

Date	Pressure at MP 1479	Initial Cause	Result
2010-04-07	430psi	Indian River station falling offline.	Shutdown and Overpressure upstream of MQ
2010-03-02	437psi	Bay City station falling offline.	Shutdown and Overpressure upstream of MQ
2009-10-30	463psi	Lewiston station falling offline.	Shutdown and Overpressure upstream of MQ
2009-10-15	538psi	Indian River station falling offline.	Shutdown and Overpressure upstream of MQ

### Changes Requested

- Removal of the pressure restriction MP 1479(425psi) in the EBSS line description.
- Revise EBSS line description for the Straits of Mackinaw MOP to 600 psi
- Review High Pressure shutdown at MP 1479(currently 425 psi) and adjust based on results of an Engineering assessment

I propose the PTCC as the MOC Vetting Committee: <http://moc.enbridge.com/MOC/moc.aspx?id=21>

I would like approval to proceed with the MOC at the next PTCC meeting.

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