

## APPENDIX A: TABLE OF CONCORDANCE (Burnaby Terminal)

Condition 22 is applicable to the following legal instrument: XO-T260-010-2016 (Tanks). The table describes how this report addresses the Condition requirements applicable to Updated Terminal Risk Assessments as related to Burnaby Terminal.

### LEGAL INSTRUMENT CONCORDANCE WITH NEB CONDITION 22: UPDATED RISK ASSESSMENTS – BURNABY TERMINAL

NEB Condition 22	XO-T260-010-2016 TANKS
	Section #
<p><b>Updated Terminal Risk Assessments</b></p> <p>Trans Mountain must file with the NEB for approval, at least 6 months prior to commencing construction, and at the same time as Trans Mountain's filings for Conditions 23, 24 and 25, updated risk assessments for the Edmonton Terminal West Tank Area, the Sumas Terminal, and the Burnaby Terminal. The updated risk assessments must quantify and/or include the following:</p>	See below.
a) the effect of any revised spill burn rates;	Section 7.3 in Appendix B2
b) the potential consequences of a boil-over;	Sections 11.5 and 13.0 in Appendix B2
c) the potential consequences of flash fires and vapour cloud explosions;	Sections 11.3, 11.4, and 13.0 in Appendix B2
d) the cumulative risk based on the total number of tanks in the terminal, considering all potential events (pool fire, boil-over, flash fire, vapour cloud explosion);	Section 13.0 in Appendix B2
e) the domino (knock-on) effect caused by a release of the contents of one tank on other tanks within the terminal's common impoundment area(s), or other tanks in adjacent impoundment areas; and	Section 8 and 13.0 in Appendix B2
<p>f) risk mitigation measures, including ignition source control methods.</p> <p>For those risks that cannot be eliminated, Trans Mountain must demonstrate in each risk assessment that mitigation measures will reduce the risks to levels that are As Low As Reasonably Practicable (ALARP) while complying with the Major Industrial Accidents Council of Canada (MIACC) criteria for risk acceptability.</p> <p>The quantitative risk analysis must be based on recognized methodology, models, and software. Product release frequencies and event probabilities must be based on recent, documented data sources. The effect of mitigation measures on the risk results must be justified and documented.</p>	Section 4.0 & 9.0 in Appendix B1 and Section 14 in Appendix B2.