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As requested by Energy Transport Solutions, LLC (ETS), Exponent conducted a Quantitative Risk Assessment (QRA) study addressing unit-train movement of LNG DOT-113 tank cars by rail. The scope of services performed during this review may not adequately address the needs of other users of this report, and any use of this report or its findings, conclusions, or recommendations presented herein are at the sole risk of the user. The opinions and comments formulated during this assessment are based on observations and information available at the time of the study. The representation of NFPA 59A risk criteria in this report has been done for the purposes of comparing the transportation risk to a set of existing stationary facility quantitative risk criteria used in the U.S. and may not necessarily be appropriate or applicable for directly assessing acceptability of transportation risk. The assumptions adopted in this study do not constitute an exclusive set of reasonable assumptions, and use of a different set of assumptions or methodology might produce materially different results. Therefore, these results should not be interpreted as predictions of a loss that may occur as a result of any specific future event. Accordingly, no guarantee or warranty as to future life or performance of any reviewed condition is expressed or implied.

The findings and recommendations presented herein are made to a reasonable degree of engineering certainty. The methodology that was used in this report is based on mathematical modeling of physical systems and processes as well as data from third parties in accordance with the regulatory requirements. Uncertainties are inherent to the methodology and these may subsequently influence the results generated.