

# Quantification of Soot Emissions from Flares – Phase 2

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The process of soot formation in flares is a very detailed and complex process and the quantification and prediction of emissions for the development of models or “soot factors” represents a very significant and longer term research challenge. In this phase 2 proposal, detailed and controlled lab experiments will form the primary methodology for achieving these goals. We are also proposing to continue investigation of a potentially promising approach to quantify PM emissions from flares under field conditions.

Through close collaboration with the National Research Council and with the continued assistance of Environment Canada as well as potential leveraging through Natural Sciences and Engineering Research Council, the broader goal of ultimately measuring, modeling, predicting, and accurately reporting PM emissions will be achievable.

Report