PARTICULATE EMISSIONS FROM LOW GRADE FUEL HANDLING. Joseph M. Sorge and J. Spencer Huston. Earth Tech. Inc., 500 Elizabeth Ave., Somerset, NJ, 08873

The harvesting storage and handling of low grade carbonaceous fuel may result in significant particulate emissions if proper mitigation measures are not observed. The paper provides a summary of particulate size distribution data available for peat and biomass fuel processes. Using the size distribution data and EPA transportation emission rates an estimate of dust emissions from a moderate facilities is developed. Several alternative dust control strategies are assessed to determine respective cost and feasibility information. Results are developed for selective climatic regions to project the severity of the dust emission problems in typical areas of the U.S. The results obtained indicated that the use of practical mitigation methods can substantially reduce the impact of dust emissions due to low-grade fuel harvesting, storage and handling processes.