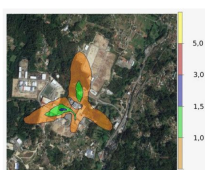


Use of propulsion system to improve atmospheric dispersion in conducted emission sources in a fish oil processing plant

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Abstract

The technical recommendations in the design of stacks indicate that the emission at higher height, or a greater exhaust speed gases, decreases the impact in the surroundings. In fact, it is usual increases stack height in problematic sources. Taking into account this principle, additional propulsion systems for conducted sources have been designed. This type of technology allows to power the exhaust gases at a high speed, diluting simultaneously with a high flow rate, and minimizing the impact on the environment. In this study, the installation of an Eolage120 turbine (Delamet ©) in a plant dedicated to the manufacture of fish oil, located in the north of Spain has been evaluated. The equipment was installed at the top of a stack that emits the exhaust gases from calcium soap manufacture. The present study includes the previous report justifying the installation of an Eolage120 turbine with the capacity to dilute the emissions with a flow of 120,000 m³/h and to propel the emissions at 30 m/s. In the study, the Calpuff atmospheric dispersion model was used to evaluate the improvement in air quality obtained. The results of the study demonstrate a significant reduction of the odor impact.

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