Dispersion of Atmospheric Air Pollutants in Mellita Gas Plant

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Abstract

Air quality models are typically used to predict the fate and transport of air emissions from industrial sources to comply with environmental standards, as well as to determine pollution control requirements.

For many years, environmental protection agencies over the world used several gas dispersion based models in air quality impact assessment.

As an air pollutant is transported from a source to a potential receptor the pollutant disperses into the surrounding air so that it arrives at a much lower concentration than it was on leaving the source. Strict environmental regulations worldwide resulted in an ever growing concern about the validity and reliability of air quality dispersion models.

In Mellita Gas Plant, gas emission due to the location of gas monitoring station, specification of gas detectors, analysis of tail gas emissions, deposition rates of H_2S, SO_2 and CO_2 or similar gases on vegetation areas.

Keywords: *Air pollution; Dispersion of Air Pollutants; Gaussian plume model*