



CASE STUDY: Odor Control at Large Industrial Plant

Problem:

- Odor complaints from neighboring residence and businesses whenever rotary oven was operating.
- Demonstrations and protests outside of facility.
- EPA shutdown the plant until odor control achieved.

Odor Compounds:

- Ammonia and related compounds (i.e. primary, secondary, and tertiary amines)
- Sulfur and related compounds (i.e. thioethers, hydrogen sulfide, etc.)

Process Conditions:

- Exhaust air of oxidation kiln with temperature of 60-70°C (140 – 158°F) and airflow of 25,000 – 30,000 CFM

Solution:

- Product: Momar's Vanilla's In The Mist
 - Diluted 1:100 with water
- Application System:
 - 0.3 mm diameter high pressure nozzle operating at 70 Bar (1000 psi)

Results:

- Ammonia levels dropped from >150 ppm (before) to <20 ppm (after).
- Sulfur and other olfactory compounds dropped by 300X their original concentrations.
- EPA approved of new control methods and allowed plant to reopen.
- No more odor complaints from neighboring residents and businesses.



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