

Odor Management Plan Writers

How do PA Odor Management Regulations Compare to
NAQSAT?

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PA Odor Management Regs.

- Applies only to CAOs and CAFOs with new construction.
- Nuisance based, one-time score.
- Evaluates potential odor impacts.
- Estimates odor generation, transport, and looks for potential receptors.
- Covers **ONLY** whole odors (not dust or gasses) from **ONLY** animal housing and manure storage.
- Does **NOT** consider application odors (transient, but the source of most odor complaints).
- Scope intentionally limited by language in Act 38.

PA Program in a Nutshell

- Odor Siting Index (OSI)
- Used to encourage best available construction site (from an odor standpoint).
 - High score = undesirable site
- Considers 3 factors
 - Odor sources
 - Site land use
 - Surrounding land use
- Index < 50 = Low odor impact probability
- 50-99.9 = Moderate probability
- 100+ = High probability
- High scores force farm-specific BMPs



Regs. Based on Extension Siting Program

- Voluntary, free
- Similar factors as regulatory program PLUS
 - Social factors
 - Visibility
 - Perception
 - Other local details
- Deliverables: Map, Individualized letter with recommendations
- Around 500 (?) site evaluations since 1999

NAQSAT – My initial take

- A lot more detail!
 - Specific gasses, dust (and odor)
 - From not only animals, housing, and manure storage, but:
 - Feed and water
 - Manure collection and transfer
 - Land Application
 - Mortality
 - On-farm roads
 - Public perception
- Delivers areas for improvement
- Applicable to existing operations

White space = Room for Improvement

Effectiveness Results:

	Odor	Particulate Matter	Ammonia	Hydrogen sulfide	Methane	Volatile organic compounds (VOCs)	Nitrous Oxide (N ₂ O)
Animals and Housing							N/A
Feed and Water							N/A
Collection and Transfer							
Manure Storage		N/A					
Land Application		N/A					N/A
Mortalities		N/A					N/A
On-farm Roads				N/A	N/A		N/A
Perception			N/A	N/A	N/A	N/A	N/A