Pa Ag Odor Management
Program Overview

- **Requires** larger animal operations, and higher animal density operations, to develop and implement odor management plans when building new facilities.
  - Larger operations are those defined as CAFOs
  - Higher density farms are those defined as CAOs
  - Odor Mgmt Plans developed by certified specialists
  - Odor Mgmt Plans approved by the Pa State Conservation Commission
  - The facilities addressed are new barns and new manure storages

- Establishes a statewide standard for odor management on animal farms throughout Pennsylvania
Who Falls Under This New Law?

CAOs and CAFOs building new facilities

- **CAOs** are defined in the Pa Nutrient Mgmt Act
  - More than 2,000 lbs of animals per acre
  - Approximately 1,000 of these farms in Pa

- **CAFOs** are defined by DEP
  - Greater than 1,000 Animal Units
  - Greater than 300 Animal Units and a CAO
  - EPA head numbers: 700 cows, 2500 pigs, 82,000 layers, etc
  - Approximately 350 of these farms in Pa

- **Only** CAOs and CAFOs building new facilities after February 26, 2009 are required to act under this law
  - But volunteers are encouraged to participate
What are they required to do?

Develop an Odor Management Plan

- Odor Management Plans are:
  - Written, site specific plan to minimize odor impacts from new facilities
  - Written by certified odor management specialists
  - Developed to address the new facilities to be built on the farm

- Plans must be submitted to the SCC
  - SCC is reviewing authority
  - SCC takes formal action to approve or disapprove the plan

- Timing of these odor management plans:
  - Approved Plan required prior to starting construction of facilities
  - Fully Implemented Plan required prior to using/ populating the facility
Odor Management Plans, a general overview

**What is included in a plan?**
1. An *evaluation of potential* odor impacts
2. Lists *Odor BMPs* necessary to address site with a higher odor conflict potential

**What is the goal of a plan?**
The goal is not to eliminate odors, but to minimize their impact on the community

**Is funding available for planning?**
Funding for plan development is authorized and may be available depending on state budget issues
More detail on what is in an Odor Mgmt Plan

- The plan includes a signed statement by the farmer agreeing to:
  - **Implement & maintain Odor BMPs** according to the schedule included in the plan
  - Keep required records relating to BMP implementation and maintenance activities
  - **Allow the SCC to conduct inspections** in accordance with bio-security protocols provided by the farmer

- The plan includes a signed statement by the planner attesting to the accuracy of the plan
More detail on what is in an Odor Mgmt Plan

The evaluation component of the plan

- Assesses potential impacts of offsite migration of odors
  - Scores facility as having Low, Medium, or High potential for odor conflicts
  - The tool developed to provide this evaluation is called the Pa Odor Site Index (PSU based tool)

- The topics addressed in this evaluation include:
  - Odor Sources
  - Site Land Uses
  - Surrounding Land Uses
More on the Pa Odor Site Index

More on the topics addressed in the OSI

- Odor Source Factors assess:
  - Animal Type & Number; Manure Storage Type; Animal History

- Site Land Use Factors assess:
  - The existence of any special ag land-use designations such as Ag Zoning, Ag Security Areas, and Farmland Preservation

- Surrounding Area Land Use Factors assess:
  - Existence of other animal operations in the evaluation area
  - Distance of facility to nearest property line
  - And the number of neighbors within the evaluation area
More on the Pa Odor Site Index

The OSI includes a map of the area

- A topographic map is used to document the various issues addressed in the Odor Site Index

- The map identifies the evaluation area for the plan
  - The evaluation area is sized based on the proposed AEU for the operation

- The map identifies existing & proposed facilities on the farm

- The map also locates:
  - Homes and businesses
  - Neighboring Public Use Facilities
  - Other Livestock & Poultry Operations
Example Map:
2,200 Swine Finishing (306 AEUs)

<table>
<thead>
<tr>
<th>AEUs</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;50</td>
<td>1200’</td>
</tr>
<tr>
<td>50-199</td>
<td>1800’</td>
</tr>
<tr>
<td><strong>200-599</strong></td>
<td><strong>2400’</strong></td>
</tr>
<tr>
<td>600+</td>
<td>3000’</td>
</tr>
</tbody>
</table>
More detail on what is in an Odor Mgmt Plan

**The Odor BMP section of the plan**

- This section is where any required Odor BMPs will be listed
  - Odor BMPs are required if the Odor Site Index score is either **Medium** or **High** Potential

- **Level I** Odor BMPs (for Medium potential farms)
  - Basic, Management Oriented

- **Level II** Odor BMPs (for High potential farms)
  - Specialized, Non-Management Oriented
Selecting Odor BMPs for the plan

- Ag operator & planner choose Odor BMPs necessary to address the odor sources identified on site
  - Level 1 BMPs are established in the SCC’s odor guidance
  - Level 2 BMPs are selected from available technologies

- Reference materials identifying Odor BMPs are on SCC website
What detail is required for the BMPs in the plan

**Odor BMP criteria and schedules**

- For Level I Odor BMPs:
  - The required detail for these Odor BMPs is included in the Odor Management Guidance document
  - Customize wording where necessary to make it farm specific

- For Level II Odor BMPs, include:
  - General Construction & Implementation Criteria
  - Implementation Timeframes for each Level 2 Odor BMP
  - Operation & Maintenance Procedures & Timeframes for each Level 2 Odor BMP
Plan describes required documentation

- The plan must list what information or observations will be documented by the Operator for each Odor BMP
  - The Operator records activities relating to required implementation and maintenance practices
  - The Operator records observations to demonstrate that the BMPs are working properly
For More Information:

SCC Odor Management Program webpage:

www.agriculture.state.pa.us/scc

Karl Dymond, SCC OM Program Coordinator
PDA Region 3 Office
PO Box C, Route 92 S
Tunkhannock, PA 18657-0318
(570) 836-2181 ext 3030
kdymond@state.pa.us