

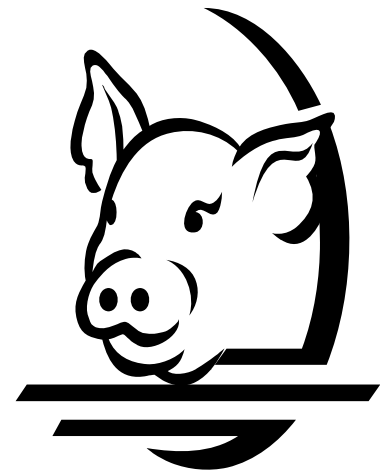
# ABC FARM'S EMS TRAINING



Date

# What is an EMS?

- organized approach to managing and preventing environmental (immediate and long term) impacts
- continual cycle of planning, implementing, reviewing and improving all farm activities
- **Voluntary**



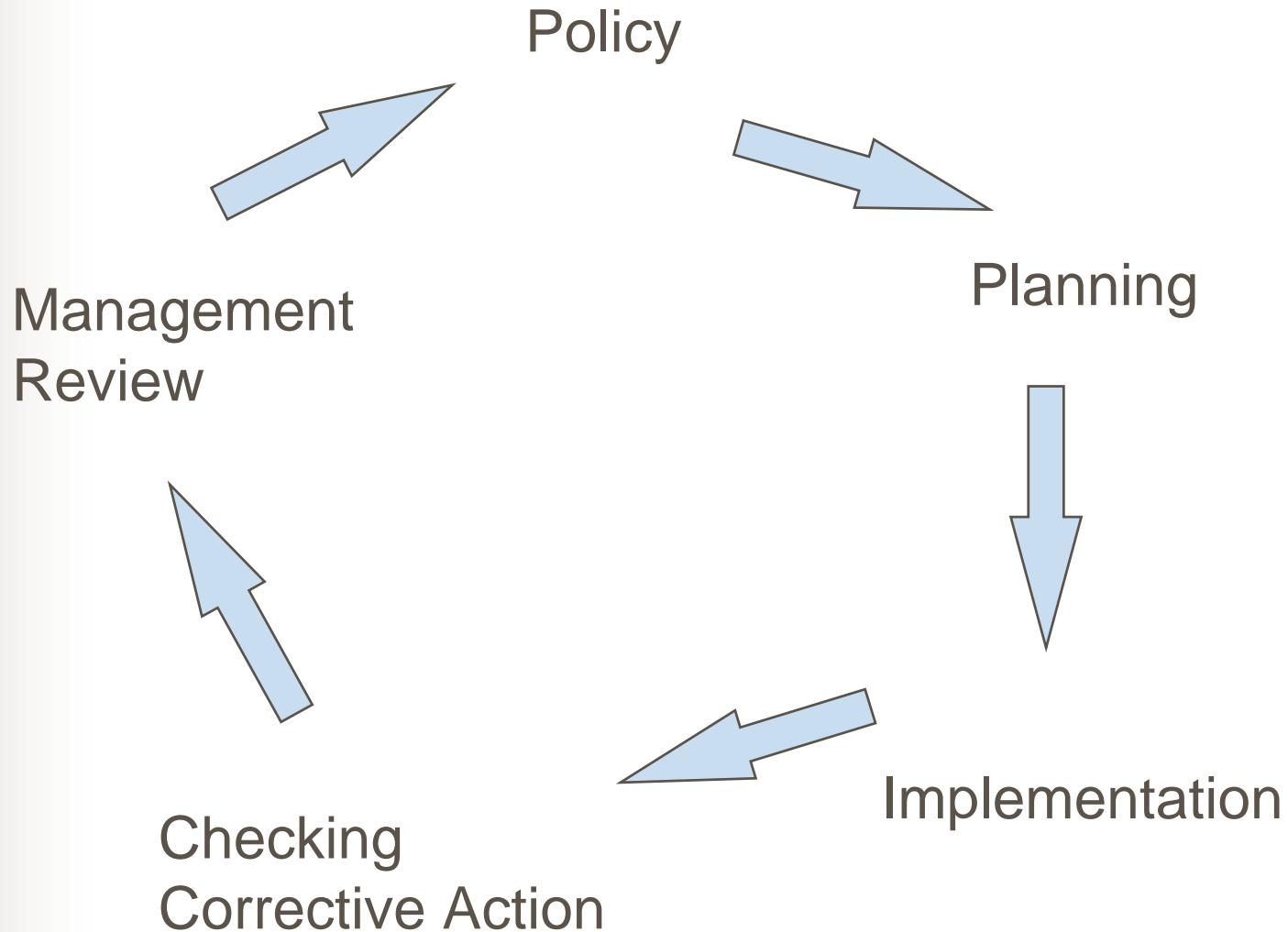
# An EMS ...

- Helps farmer and employees plan how to respond in emergencies
- Usually prevents potential environmental impact
- Often improves communication across farm
- Gives ownership to employees
- Is never "done"



# EMS Model –

## PLAN, DO, CHECK, ACT





# ABC Farms Environmental Policy Statement

ABC Farms was established in 1960 as a family operation. We try to utilize current technology and information to help the farm to continually improve. We strive to protect our natural resources for current and future generations and to be a good steward of the environment, as well as, be good neighbors.

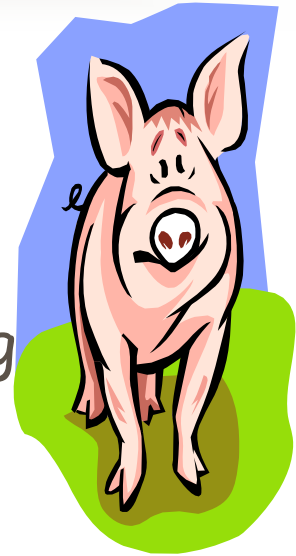
ABC Farms commits to meet all environmental rules and regulations in the swine industry and to strive to protect our environment through sound management practices and decisions.

ABC Farms will prevent pollution by striving to minimize waste generation and resource consumption.

ABC Farms will establish and evaluate achievable environmental performance goals to ensure continual improvement of its EMS.

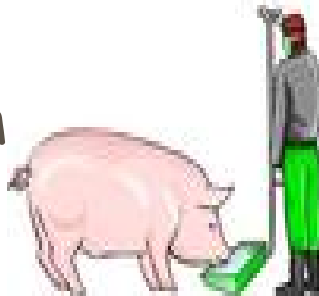
# Identify Activity Areas

- Animal Environment
- Animal Removal
- Artificial insemination
- Biosecurity
- Birthing/Farrowing
- Deliveries/Supplies
- Drinking Water
- Facility Maintenance
- Feed and Feeders
- Fuel
- General Cleaning
- Health Care
- Mortality
- Office/Administration
- Preventive Maintenance
- Sprayfield Management
- Waste Management
- Worker Environment



# Determine environmental impacts: (how does the activity affect the environment)

- Air Impacts
  - Air pollutants, odor, dust
- Water Impacts
  - Water pollutants, water usage
- Land Impacts
  - Soil contamination, soil erosion
- Resource Consumption
  - Renewable, non-renewable
- Waste Stream
  - Solid waste, recyclables



ABC FARM RANKING LIST

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ACTIVITY	ASPECT	IMPACT	RANKING							
			Legal	Severity	Zone of Impact	Frequency	Duration	Volume	Public Concern	Total
Waste Management	Sludge removal	Soil Contamination	6	6	5	3	3	3	6	32
Waste Management	Pit pull plug	Air Pollutants	2	4	3	3	3	3	6	32
Mortality	Routine loss	Soil Contamination	2	6	2	2	3	3	6	32
Waste Management	Berm and bank management: <i>Lagoon breach</i>	Water Pollutant	5	6	6	6	3	3	6	31
Preventive Maintenance	Irrigation: Pipes	Water Pollutant	6	6	6	1	1	2	6	30
Mortality	Catastrophic loss	Water Pollutant	3	6	3	1	3	3	6	29
Waste Management	<i>Pipes: Leaks or Burst Flush pipes to buildings</i>	Water Pollutant	6	6	4	1	2	3	6	29
Mortality	Buckets/bins	Air Pollutants	6	5	3	1	3	4	6	28

# Objectives and Targets

- Once environmental aspects and impacts are determined, **Objectives and Targets** are made
- Objectives and Targets should address significant impacts



ACTIVITY	ASPECT	SIG	OBJECTIVE	TARGET	PERFORMANCE MEASURE	ACTIONS TAKEN	TIME	COMMENTS
Mortality	Catastrophic loss	Yes	Clean farrowing rooms	<ol style="list-style-type: none"> <li>1. Clean all 4 rooms before end the quarter</li> <li>2. Start cleaning houses on a regular basis</li> </ol>	Clean houses (absence of spider webs)	<ol style="list-style-type: none"> <li>1. Started cleaning as farrowed in Aug</li> <li>2. Cleaned houses and used Tempo</li> <li>3. Used broom, air hoses and handwork</li> <li>4. Used water hose and pressure washer except around electrical outlets</li> <li>5. Added faceplates to electrical outlets</li> </ol>	12-04	All houses have been cleaned and employees have been trained on how to do this process 9/04
Mortality	Catastrophic loss	Yes	Reduce fire risk	<ol style="list-style-type: none"> <li>1. Reduce spider webs, dust and spiders by general cleaning and spraying tempo</li> <li>2. Replace light cover switches in farrowing houses</li> <li>3. Put rubber or plastic coverings over LP gas pipes from tanks through walls to heating inside</li> <li>4. Purchase fire_ext</li> </ol>	<ol style="list-style-type: none"> <li>1. Reduction of spiders, webs an dust</li> <li>2. New light switches</li> <li>3. Covering over all exposed wiring</li> <li>4. Fire extinguishers present</li> </ol>	<ol style="list-style-type: none"> <li>1. Cleaned houses (refer to above)</li> <li>2. Covered light switches</li> <li>3. Contacted contractors about covering the exposed wires (9/04)</li> <li>4. Purchased fire extinguishers</li> </ol>	12-04	<ol style="list-style-type: none"> <li>1. Houses have been cleaned 9/04</li> <li>2. Light switches have been covered 9/04</li> <li>3. Fire extinguishers present in house 9/04</li> </ol>
Waste management	Sludge removal	Yes	Get sludge levels in lagoon	Take sludge levels from lagoon by using the sludge survey and possibly requesting help from Coop Extension or SWCD	Having sludge levels recorded	1. Contact DPPEA about receiving a copy of the sludge survey handbook	6-05	4. Gas pipes covered 9/04
Sprayfield management	Insecticide Use	Yes	Obtain pesticide license	<ol style="list-style-type: none"> <li>1. Farmer and worker will receive their pesticide application license</li> <li>2. Obtain a backup for spraying</li> </ol>	<ol style="list-style-type: none"> <li>1. Having a cert. Pest lic</li> <li>2. Have backup spray pest in case of emergency</li> </ol>	1. Determined when a training was available	12-04	<ol style="list-style-type: none"> <li>1. Farmer took pest app lic test 9/30/04 (Doug was unable to attend)</li> <li>2. Research if worker can spray under Farmer license</li> </ol>

# Standard Operating Procedures (SOPs)

- Work instructions
- Explain how to perform specific work duties
- Allows all workers to be consistent



# ABC Farm's SOPs

- Preventative Maintenance SOP
- Spray Irrigation SOP
- Breeding Barn SOP
- Farrowing House SOP
- Mortality SOP



# What's next.....

- What do we do now?
- IF YOU HAVE ANY QUESTIONS OR CONCERNS AT ANYTIME, SPEAK WITH FARM MANAGER!

