

NP 206 Action Plan

Component I: Atmospheric Emissions

- **Problem Area 1: Understanding the Biological, Chemical, and Physical Mechanisms Affecting Emissions**
- **Problem Area 2: Emission Factors from Livestock Facilities Problem Statement**
- **Problem Area 3: Control Technologies and Strategies for Emissions**
- **Problem Area 4: Atmospheric Fate and Transport to Receptors**

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Component II: Nutrient Management

- **Problem Area 1: Animal Feeding and Management**
- **Problem Area 2: Innovative Technology for Collection, Storage, and Treatment**
- **Problem Area 3: Nutrient Management Tools for Indexing and Evaluating Nutrient Fate and Transport**
- **Problem Area 4: Farming Systems and Practices for Efficient and Balanced Manure Nutrient Management**

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Component III: Pathogens and Pharmaceutically Active Compounds (PACs)

- Problem Area 1: Methods Assessment and Development
- Problem Area 2: Fate and Transport of Pathogens
 - Problem Area 2a: Inactivation Rates and Transport Characteristics of Pathogens from Animal Agriculture
 - Problem Area 2b: Pathogen Indicators for Fate and Transport Research
 - Problem Area 2c: Biological Source Tracking
 - Problem Area 2d: Bioaerosols
 - Problem Area 2e: Modeling Fate and Transport of Manure-borne Pathogens from “Pedon” to Watershed Scale
- Problem Area 3: Pharmaceutically Active Compounds (PACs)
- Pathogens Problem Area 4: Holistic Treatment Technologies for Nutrients, Pathogens and PACs

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Component IV: Byproducts

- **Problem Area 1: Phytoavailability and Bioavailability of Nutrients, Trace Elements and Xenobiotics in Byproducts Considered for Beneficial Use**
- **Problem Area 2: Protocols and Methodology Standards for Examination and Approval of Byproducts for Beneficial Uses in Agriculture and Horticulture**
- **Problem Area 3: Byproduct Utilization Technologies**
- **Problem Area 4: Energy from Byproducts**