COMMITTEE ON ANIMAL EMERGENCY MANAGEMENT: CARCASS MANAGEMENT RESEARCH AND DEVELOPMENT UPDATE

LORI P. MILLER, PE
SENIOR STAFF OFFICER/ENVIRONMENTAL ENGINEER
U.S. DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE
VETERINARY SERVICES
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White House Subcommittee
Foreign Animal Disease Threats Interagency Working Group
BRIDGING THE GAPS
LARGE ANIMAL COMPOSTING PROTOCOL
Developed by APHIS-Led Composting Technical Team; available on APHIS website
RENDERING WORKSHOP – July 2017
Identifying obstacles to emergency rendering and discussing options to overcome them
MOBILE INCINERATION
2017 Iowa field test was effective with low air emissions
WASTE TO ENERGY
Indiana exercise successfully demonstrated feasibility for spent laying hens
NON-FREEZING WASH TUNNEL AND ROBOTS

Autonomous robot climbs into livestock carrier to clean and disinfect interior
Figure 4.3. Sensitivity Analysis for the Number of Carcasses, Inhalation HQs for Dairy Cattle with Distance from the Storage Pile.
LEACHATE MANAGEMENT EXPOSURE ASSESSMENT
Findings: landfills concerned that viruses survive in landfill leachate; assessment finds low risk under worst-case scenario
Emergency Response - Carcass Disposal

Technical Assistance for Carcass Disposal

Key resources for preparing your business

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Some specific publications of interest:
http://www.extension.org/category/outbreak-management.html #Outbreak Planning

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Overview of In-House Composting Process

**STEP 1:** Deploy compost SME from APHIS roster (contact Disposal Cell)

**STEP 2:** Conduct the Farm Assessment

**STEP 3:** Arrange for Necessary Equipment, materials and supplies

- Finding Carbon Source: What to Say When Calling Potential Vendors
- Job Aid: Carbon Sources for Windrow Construction
- At least 2 skid steers with operators

**STEP 4:** Construct Compost Windrows

- Job Aid: Pre-Compost Windows for AI-Infected Flocks
- Job Aid: Windrow Construction Protocol for AI-Infected Flocks
- Compost Windrow Construction Approval Checklist for AI-Infected Flocks

**STEP 5:** Monitor Temperature

- Job Aid: Temperature Monitoring Protocol of AI-Infected Flocks
- Job Aid: Calibration of Analog Thermometers

**STEP 6:** Turn the Windrows

- Phase 1 Windrow Evaluation Checklist Days 1-14 for AI-Infected Flocks
- Phase 2 Windrow Evaluation Checklist Days 14-28 for AI-Infected Flocks
Lori P. Miller, PE
Senior Staff Officer/Environmental Engineer
U.S. Department of Agriculture
Animal and Plant Health Inspection Service
Veterinary Services
lori.p.miller@aphis.usda.gov