Federal Container Containment Regulations & Assessments in Virginia

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Virginia Department of Agriculture and
Consumer Services

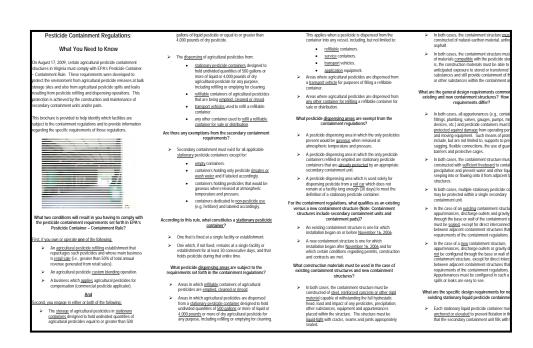


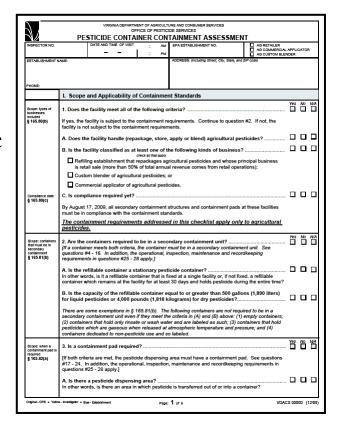
In the fall of 2008, with pesticide containment rule less than a year away from implementation and no in-depth training and/or outreach material available it was decided that VDACS would develop the necessary materials.

Liza Fleeson (Program Manager), Doug Edwards (Enforcement Supervisor), and Robert Christian (Investigator) worked together to create training & inspection materials, outreach documents, and established on-site training for staff.



An establishment inspection form along with a "Pesticide Containment Regulations: What you need to Know" outreach brochure was developed by the VDACS enforcement staff.

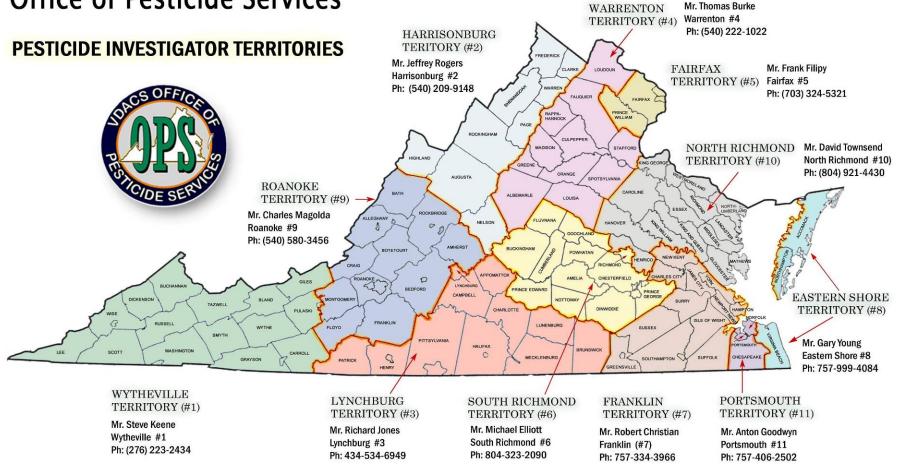




□ Investigators attended an intense, in-house two day training session w/ hands-on field components.



Office of Pesticide Services





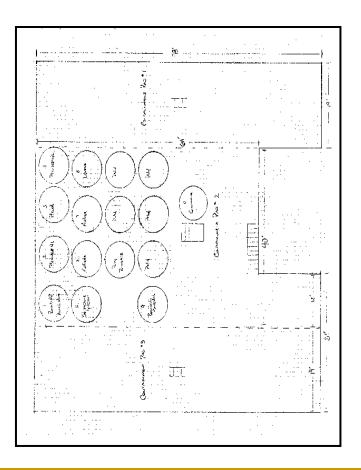
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- All facilities potentially affected were identified.
- Facilities were sent letters/brochures prior to assessments explaining the purpose of the proposed site assessment visits and following the actual assessment visits to advise of any necessary modifications which would need to be made by August 17, 2009.
- All facilities which were contacted consented to containment assessments.

□ Information was gathered and reviewed by the Investigator and the Enforcement Supervisor, then shared with the firm.

Vertical Tank	Calculations				Cone	Cone	Cylinder	Tank	Gallons
Tank No.	Circumference	Diameter	Radius	Height	Height	below wall	below wall	Capacity	Displaced
1	18.50	5.89	2.95	12.21	5.06	0.00	0.00	2833.52	0.00
2	20.66	6.58	3.29	9.50	0.83	0.00	0.00	2486.39	0.00
3	20.66	6.58	3.29	9.50	0.83	0.00	0.00	2486.39	0.00
4	19.00	6.05	3.03	10.00	0.00	0.00	0.00	2150.71	0.00
5	25.00	7.96	3.98	18.00	0.42	0.00	0.00	6754.48	0.00
6	20.66	6.58	3.29	9.50	0.83	0.00	0.00	2486.39	0.00
7	20.66	6.58	3.29	9.50	0.83	0.00	0.00	2486.39	0.00
8	25.00	7.96	3.98	11.08	14.75	0.00	0.00	5956.30	0.00
9	18.83	6.00	3.00	12.00	0.58	0.00	0.00	2575.71	0.00
9	10.00								
10	11.00	3.50	1.75	3.00	0.00	0.00	1.00 Gallons Displa	216.26 aced	72.09 72.09
10	11.00	3.50	•			0.00	Gallons Displa	eced	72.09
10 Dimensions: 0	11.00 Containment Pad	3.50	Dimensions:	Containme	nt Pad: 2*	0.00	Gallons Displa	ced Containment P	72.09 ad: 3*
10 Dimensions: 0 Length (ft)	11.00	3.50	Dimensions: Length (ft)		nt Pad: 2*		Gallons Displa Dimensions: (Length (ft)	eced	72.09 ad: 3*
10 Dimensions: 0 Length (ft) Width (ft)	11.00 Containment Pad 77.67 18.90	3.50	Dimensions: Length (ft) Width (ft)	Containme 61.02 40.00	nt Pad: 2*		Gallons Displa Dimensions: (Length (ft) Width (ft)	containment Po 77.67 19.00	72.09 ad: 3*
10 Dimensions: C Length (ft) Width (ft) Height (ft)	11.00 Containment Pad 77.67	3.50	Dimensions: Length (ft) Width (ft) Height (ft)	Containme 61.02	nt Pad: 2*		Gallons Displa Dimensions: (Length (ft) Width (ft) Height (ft)	containment Pa	72.09 ad: 3*
10 Dimensions: C Length (ft) Width (ft) Height (ft) Total	11.00 Containment Pad 77.67 18.90 0.30	3.50	Dimensions: Length (ft) Width (ft) Height (ft) Total	Containme 61.02 40.00 0.23	nt Pad: 2*		Gallons Displa Dimensions: (Length (ft) Width (ft) Height (ft) Total	Containment Po 77.67 19.00 0.25	72.09 ad: 3*
10 Dimensions: 0 Length (ft) Width (ft)	11.00 Containment Pad 77.67 18.90 0.30	3.50	Dimensions: Length (ft) Width (ft) Height (ft)	Containme 61.02 40.00 0.23	nt Pad: 2*		Gallons Displa Dimensions: (Length (ft) Width (ft) Height (ft)	Containment Po 77.67 19.00 0.25	72.09 ad: 3*
Dimensions: C Length (ft) Width (ft) Height (ft) Total Volume(gal)	11.00 Containment Pad 77.67 18.90 0.30	3.50 : 1* gallons	Dimensions: Length (ft) Width (ft) Height (ft) Total	Containme 61.02 40.00 0.23	nt Pad: 2*		Gallons Displa Dimensions: (Length (ft) Width (ft) Height (ft) Total	Containment Po 77.67 19.00 0.25	72.09 ad: 3*
Dimensions: C Length (ft) Width (ft) Height (ft) Total Volume(gal) * CENTER SUI Containment	11.00 Containment Pad 77.67 18.90 0.30 1,098 MP DESIGN	3.50 : 1* gallons	Dimensions: Length (ft) Width (ft) Height (ft) Total Volume(gal)	Containme 61.02 40.00 0.23 1,400	nt Pad: 2* gallons gallons		Gallons Displa Dimensions: (Length (ft) Width (ft) Height (ft) Total	Containment Po 77.67 19.00 0.25	72.09 ad: 3*
10 Dimensions: C Length (ft) Width (ft) Height (ft) Total Volume(gal) * CENTER SUI	11.00 Containment Pad 77.67 18.90 0.30 1,098 MP DESIGN 3,418	3.50 : 1*	Dimensions: Length (ft) Width (ft) Height (ft) Total Volume(gal) Largest tank	Containme 61.02 40.00 0.23 1,400	nt Pad: 2* gallons gallons		Gallons Displa Dimensions: (Length (ft) Width (ft) Height (ft) Total	Containment Po 77.67 19.00 0.25	72.09 ad: 3*



CONTAINMENT ASSESSMENTS IN VIRGINIA: BY THE NUMBERS

APPLICABLE FACILITIES INSPECTED – 53

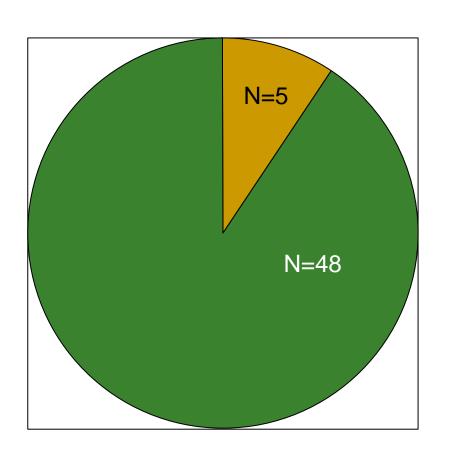
- □ REFILLERS/REPACKAGERS 43
- CUSTOM BLENDERS 4
- □ COMMERCIAL APPLICATORS 36

FACILITIES WITH NEW CONTAINMENT STRUCTURES - 0

FACILITIES WITH EXISTING CONTAINMENT STRUCTURES – 53

STATIONARY PESTICIDE CONTAINERS – 201 (ALL LIQUID)

FACILITIES AND CONTAINMENT ASSESSMENT FINDINGS





■ MODIFICATIONS
NEEDED

FACILITIES AND STRUCTURAL

INTEGRITY

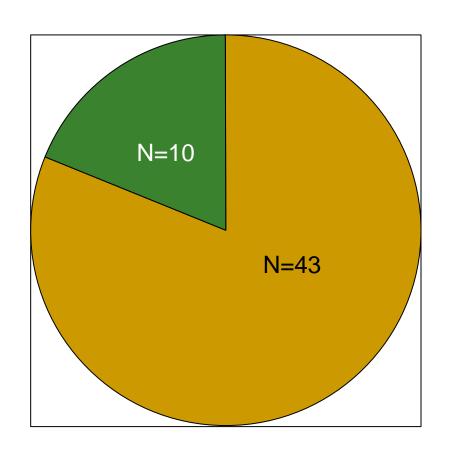






These cracks patched with polyurethane sealant then painted over with a concrete and Lucite mix.

FACILITIES AND STRUCTURAL INTEGRITY





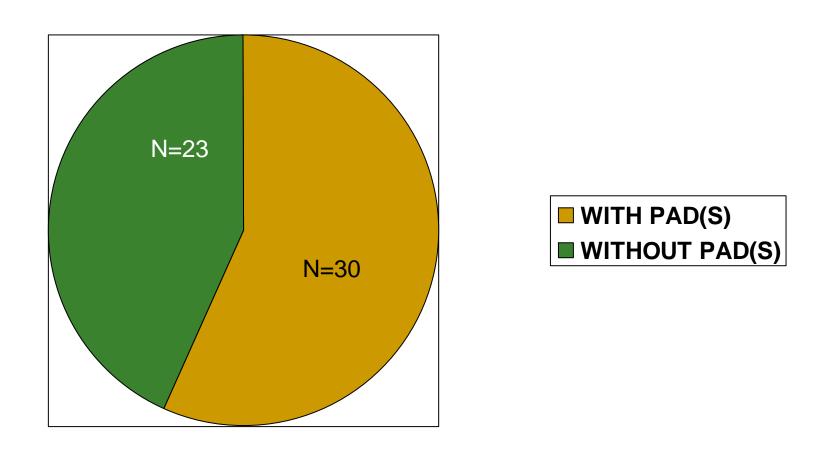
FACILITIES AND CONTAINMENT PADS







FACILITIES AND CONTAINMENT PADS

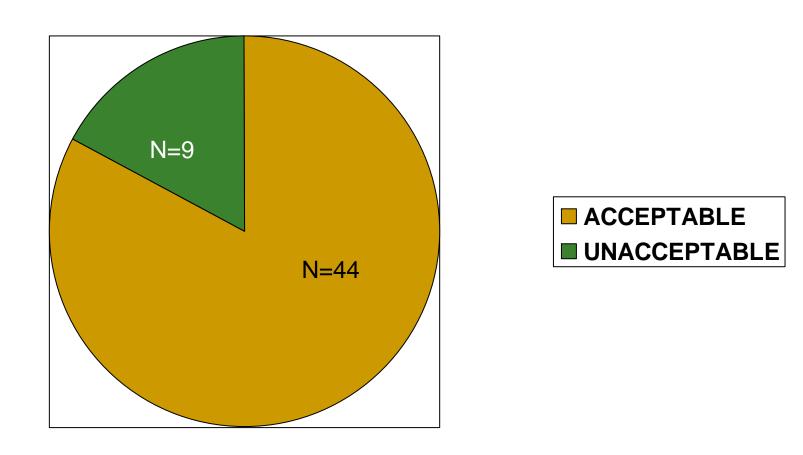


FACILITIES AND ACCEPTABILITY OF STRUCTURAL MATERIALS





FACILITIES AND ACCEPTABILITY OF STRUCTURAL MATERIALS

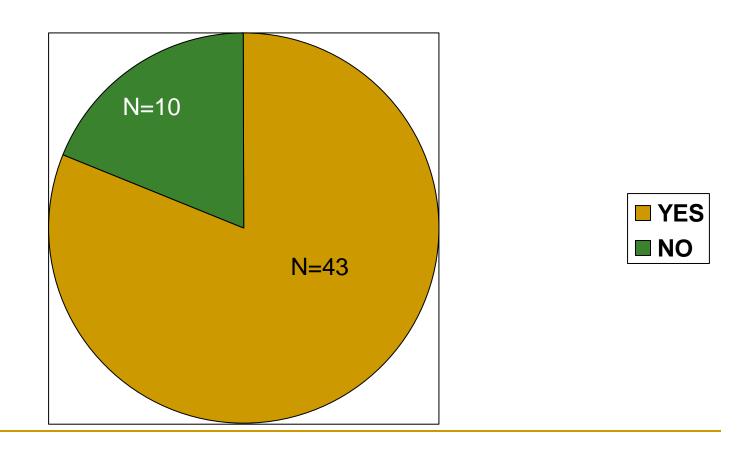


FACILITIES AND STATIONARY CONTAINERS ANCHORED OR

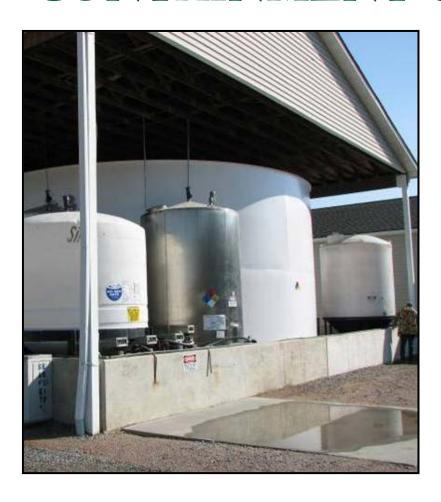




FACILITIES AND STATIONARY CONTAINERS ANCHORED OR ELEVATED



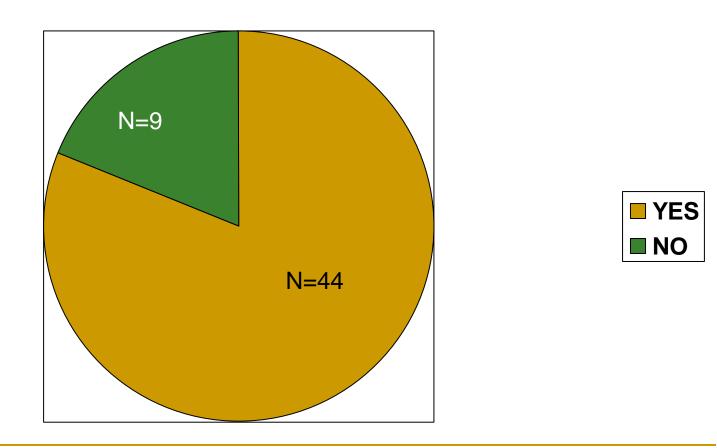
FACILITIES WITH SUFFICIENT CONTAINMENT UNIT CAPACITIES







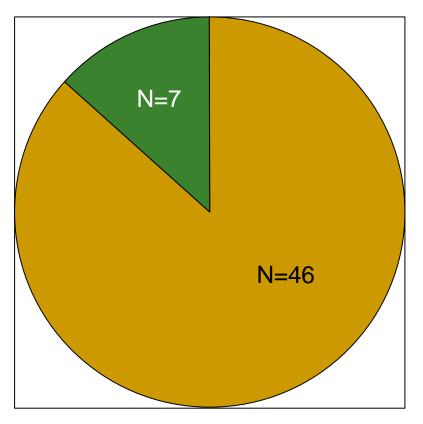
FACILITIES WITH SUFFICIENT CONTAINMENT UNIT CAPACITIES



FACILITIES WITH ADEQUATE TRANSFER EQUIPMENT PROTECTION MEANS



FACILITIES WITH ADEQUATE TRANSFER EQUIPMENT PROTECTION MEANS



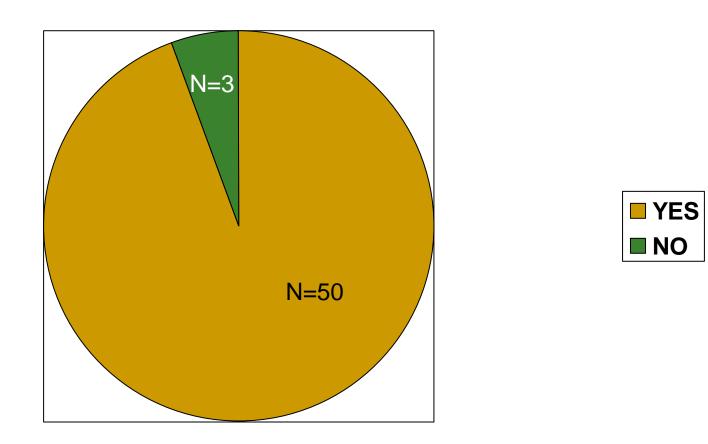


FACILITIES WITH SUFFICIENT





FACILITIES WITH SUFFICIENT FREEBOARD



- What we are doing now:
 - The container and containment regulations have been and are still being discussed with the agrichemical industry in Virginia at numerous meetings.
 - We conduct re-inspections at the facility's request to verify corrections to deficiencies and to answer any question that arise as the repairs are being made.
 - VDACS is currently in the process of adopting the Containment portion of the rule into our regulations.

Additional Information

Environmental Protection Agency

www.epa.gov/pesticides/regulating/containers.htm