

SAFETY AT WORK

The Top 4 Awards

4th Place



3rd Place



2nd Place



and the winner is...



Nebraska State Fire Marshal
Fuels Safety Division

FLST Inspection Areas



NEBRASKA STATE FIRE MARSHAL FLAMMABLE LIQUID STORAGE Inspection Areas (2012)



WESTERN OSFM Mike Weinmeyer Morrill, NE (308) 831-6130	NORTHCENTRAL OSFM Wendy Strong Grand Island, NE (308) 258-0718	NORTHEASTERN OSFM Bob Steinhilber Norfolk, NE (402) 845-0821	SOUTHEASTERN OSFM Henry Lutzler Lincoln, NE (402) 488-0071	Delegated Authority Offices Bellevue: Inspector Ed Comstock (402) 802-8810 Grand Island: Fire Marshal Carl Bohling (308) 385-8444 ;225 Lincoln: Chief Inspector Bill Moody (402) 4-65-437 Norfolk: Fire Marshal Thery Zentgraf (402) 8-44-3050 North Platte: Fire Marshal George Laska (308) 533-4708 Omaha: Captain Steve Montross (402) 6-80-848 Scottsbluff: Fire Prevention Of. John Brown (308) 6-30-8227
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Role of the State Fire Marshal's Fuels Safety Division

- ▣ Routinely inspect facilities with USTs containing petroleum for compliance with fire prevention and certain environmental codes
- ▣ Issue installation permits and conduct new tank inspections for all new and replaced petroleum storage tanks and piping--ASTs & USTs
- ▣ Provide technical assistance to the interested public and other governmental agencies
- ▣ And our newest assignment – Gaseous Vehicle Fueling (LPG, CNG, LNG)

Some activities we typically don't do

- ▣ Routinely inspect facilities with existing ASTs containing petroleum, unless we receive a complaint regarding these tanks
- ▣ SPCC
- ▣ Vapor Recovery (Stage 1 and Stage 2, for example)

**FIRE SAFETY
AND
ENVIRONMENTAL
PROTECTION RULES AND
REGULATIONS**

FIRE SAFETY REGULATIONS

National Fire Protection Association (NFPA)

NFPA Pamphlets:

NFPA 30 and 30A for liquid petroleum storage and dispensing

NFPA 31 for Heating Oil tanks

NFPA 37 – Code for tanks connected to Stationary Internal Combustion Engines (generators and pumps located at well heads)

NFPA 58 for LGP fueling and NFPA 52 for LNG and CNG fueling

NFPA 30

Code for the Storage and Handling of Liquids

- ▣ This is the “general” fire code for all storage – both Aboveground and Underground tanks and piping
 - This code contains requirements for (at a minimum):
 - ▣ Specific tank storage and design
 - ▣ Containment
 - ▣ Operating procedures
 - ▣ Tank “setback” or distance
 - ▣ Emergency planning
 - ▣ Fire protection and suppression
 - ▣ Electrical concerns

NFPA 30

Tank Design

- ▣ All tanks must be “listed” and compatible with the product being stored
 - Minimum construction:
 - ▣ UL[®] 142 for ASTs
 - ▣ UL[®] 1716 or UL[®] 58 for USTs
 - ▣ Or approved equivalents
 - ▣ ASTs must be equipped with emergency venting
 - ▣ Piping located aboveground shall be steel

NFPA 30

- ▣ Electrical shall comply with National Electric Code (NEC)
- ▣ Containment

All ASTs must be able to contain spills and leakage by:

- ▣ Remote Impoundment
- ▣ Diking
- ▣ Secondary Containment Tanks (with Double-walled)

NFPA 30

Emergency Planning

- ▣ Facilities shall have an emergency plan established to respond to fire or other emergencies and shall be kept readily available

NFPA 30 A (for vehicle fueling) Distance Setbacks for ASTs

Tank Size (single wall UL 142)	Property line that can be built on	Nearest Important Building or Nearest Side of Public Way	Distance to dispenser
Up to 12,000 (Maximum)	100 ft	50 ft	50 ft

NFPA 30A

Dispensing Operations

- ❑ Equipment shall be listed for its intended service
- ❑ Dispensing shall be transferred from tanks by fixed pumps
- ❑ Nozzles shall be listed and shall be of the automatically self-closing type
- ❑ Dispensers shall be mounted on concrete island and be protected from vehicular collision

Environmental Protection Rules and Regulations—USTs

- ▣ **Title 159** of the Nebraska Administrative Code – Rules and Regulations for Underground Storage Tanks

Title 159—Rules and Regulations for Underground Storage Tanks (USTs)

- ▣ This code contains provisions for:
 - Registration
 - Installation
 - Leak Detection
 - Corrosion Protection
 - Spill Control and Overfill Prevention
 - Closure
 - Reporting of Releases

And Don't Forget!

- ▣ EPA
 - SPCC requirements and,
 - Stage I Vapor Recovery (where necessary)
- ▣ NDEQ
 - for spill reporting, spill remediation

Where to get more info?

- ▣ Nebraska Dept. of Environmental Quality
 - <http://www.deq.state.ne.us>
 - (402) 471-2186
- ▣ EPA, Storage Tanks and Oil Pollution Branch (STOP) Kansas City KS
 - www.epa.gov
 - (913) 551-7936
- ▣ State Fire Marshal's Office, Lincoln NE
 - www.sfm.ne.gov
 - (402) 471-9465

?QUESTIONS?