Emergency Response Operator Training Program

Underground Storage Tank Section Division of Waste Management



Emergency Response Operator

Definition:

An on-site employee whose responsibilities include addressing emergencies presented by a spill or release, or responding to alarms or releases from an underground storage tank system.

For an unmanned facility, "emergency response operator" means a person who is on-call and who is responsible for responding to emergencies or alarms or releases at the facility.



Emergency Response Operator

Designated and trained by the primary operator.

- Must have at least one on-site during all hours of UST system operation.
 - Unmanned UST facilities must have an automatic notification system in place that will immediately alert the emergency response operator of an emergency or alarm or release at the facility at any time.





Before a Release

- Know where emergency telephone numbers are posted at your facility
 - Unmanned vehicle fueling facilities must have emergency telephone numbers located in the area of the dispensers.
- Know location and proper operation of all safety and emergency response equipment:
 - Fire extinguisher
 - Spill kit
 - Emergency pump shutoff switch: Must be located between 20-100 feet from the fuel dispensers, manually resettable only, and distinctly labeled as EMERGENCY FUEL SHUTOFF.



Before a Release

 Know location of tank monitor (if applicable) and

 Be able to recognize warning signs and be fully prepared to respond to releases before they occur



Suspected Release

- The following are considered suspected releases:
 - Leak detection alarms and/or failures
 - Unusual operating conditions
 - Environmental conditions

Contact the primary operator immediately



Leak Detection Alarms

 Automatic Tank Gauge (ATG) console shows status, warnings, and alarms







Leak Detection Alarms

Status:

- Green light, indicates ATG is powered on
- Warnings:
 - Yellow light, indicates non-critical problems
 - Inform primary operator

Alarms:

- Red light and/or audible signal
- Contact primary operator immediately



Leak Detection Alarms

Electronic Line Leak Detectors (ELLD)

- Failed detector or leak will result in an alarm on the monitoring console
- Electronic sump sensors
 - Monitoring console will alarm when sensor detects liquid



Leak Detection Failures

Automatic Tank Gauge (ATG) test reveals Fail, Increase or Decrease

		NCDENF
* * * * * END * * * * *	* * * * * END * * * * *	AA
0.2 GAL/HR TEST PER: JUL 13, 2006 FAID	0.2 GAL/HR TEST PER: JUL 13, 2006 INCR	
T 1:REG PROBE SERIAL NUM 426185	T 1:REG PROBE SERIAL NUM 426185	
CSLD TEST RESULTS JUL 13, 2006 3:36 PM	CSLD TEST RESULTS JUL 13, 2006 3:36 PM	
JUL 13, 2006 3:36 PM	JUL 13, 2006 3:36 PM	
FUEL EXPRESS # 125 21657 SHALLOWFORD RD LEWISVILLE NC	FUEL EXPRESS # 125 21657 SHALLOWFORD RD LEWISVILLE NC	

Leak Detection Failures

 Interstitial monitoring test reveals a Release or Alarm ALARM HISTORY REPORT

L 2:PREM SUMP STP SUMP FUEL ALARM JUL 22, 2006 10:12 PM FUEL ALARM

SEP 20, 2005 8:27 PM

FUEL ALARM FEB 22, 2005 5:03 PM



Unusual Operating Conditions

 Erratic behavior of dispensing equipment
Automatic Line Leak Detectors (ALLDs) may cause fuel to flow slowly at nozzle or shut off submersible pumps when a release is detected

Unexplained presence of water in tanks



Unusual Operating Conditions

Fuel in containment sumps or interstitial spaces





Unusual Operating Conditions

 Degradation of any equipment or element of UST system to the point where it can not perform its intended function



Unusual Operating Conditions



Environmental Conditions



Staining around dispensers and/or fill ports

Stained soil



Environmental Conditions



Dead grass around fill port



Possible Causes of a Release

- Delivery hose disconnected from tank fill pipe
- Nozzle removed from dispenser
- Puncture of tanks, piping, or spill containment
- Loose fittings
- Broken components
- Overfills
- Corrosion



Confirmed Release

- Take immediate action to stop further release
 - Hit emergency shutoff switch
 - Turn off power to dispenser and bag nozzle
- Contact local fire or emergency response authority if conditions warrant
- Contact the primary operator
- Identify any vapor or fire hazards to ensure the spill or leak poses no immediate hazard to human health or safety



Confirmed Release

Sensitive receptor:

- Any place a fuel spill may leave your facility and enter the environment
- Ex. Storm drains, curb breaks, etc.
- Stop and contain spill BEFORE it reaches the environment





Spill Kits

- Clean spills 5 gallons or less
- Contain larger spills until assistance arrives
- Suggested equipment:
 - personal protective equipment (PPE)
 - absorbent material (kitty litter, sand, sawdust, etc.)
 - shovel, broom, bucket, booms, pads
 - caution tape, traffic cones



Review

- Many spills and releases occur when the primary operator is not present
- Know your facilities emergency response plan BEFORE a release occurs
- Contact emergency response authority and primary operator immediately when a release is suspected or confirmed
- Take proper measures to stop further release and to contain spills





