

Safety Alert

Working with Your Team - We Make a Safety Alert Together

Safety Alert Gasoline Tank Overflows

No injuries

No fire

No explosion

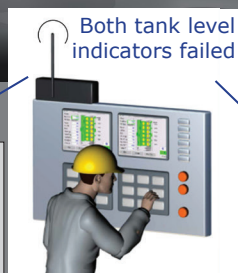
No release outside site boundary

Transferring unleaded gasoline tank to tank
Scheduled transfer of 3750 m³ to depot tank.



Receiving tank (floating roof) overflowed
20 m³ of gasoline overflowed.
Gasoline overflowed into a tank basin.
Gasoline flowed through open drain in the basin.
Then into the storm-water drainage system.

Level indicator (radar) gave false reading
Indicator reported levels 3m below actual level.
During filling, water at tank bottom rushed up and
into a solid vertical shaft used for measuring level.
Water, heavier than gasoline, depressed the
gasoline level inside the solid measurement shaft.



Both tank level
indicators failed

Hydrocarbon sensors alarm for vapors
Alarm at storm-water pumping station
detected hydrocarbon vapors in storm water.
Control room operators responded to alarm.
Operators shutdown gasoline transfer.

Hi-Hi level indicator failed
Hi-hi alarm independent of radar alarm.
Hi-hi uses plunger-type lever.
Plunger stuck.
Did not detect hi-hi tank level.
Did not send alarm to control room.
Did not auto shutdown pumping into tank.

Tested all remaining hi-hi level indicators
Similar hi-hi level indicators on 7 other tanks.
6 passed testing; 1 failed during testing.
All 8 replaced with a non-plunger type indicators.

Begin tank purging maintenance
All tanks now purged on a regular schedule.


Big lesson: more real life testing
More equipment testing under actual operating conditions.
Testing beyond simple equipment inspection.

Change procedure on basin drain
Due to days of heavy rain, basin drain was
intentionally left open.
Overflowing gasoline entered the storm-
water system through this open basin drain.

Remind everyone of risks
In a [study of 15 tank overflow incidents](#):
13 of them led to fire and explosion.

Your Team Works Directly with TJ & Sandar

In 3 Sessions, Working Together, We Make a Safety Alert for Your Company

 Safety Alert samples can be downloaded from www.Larkin.Biz

Safety Alert

Gasoline Tank Overflows

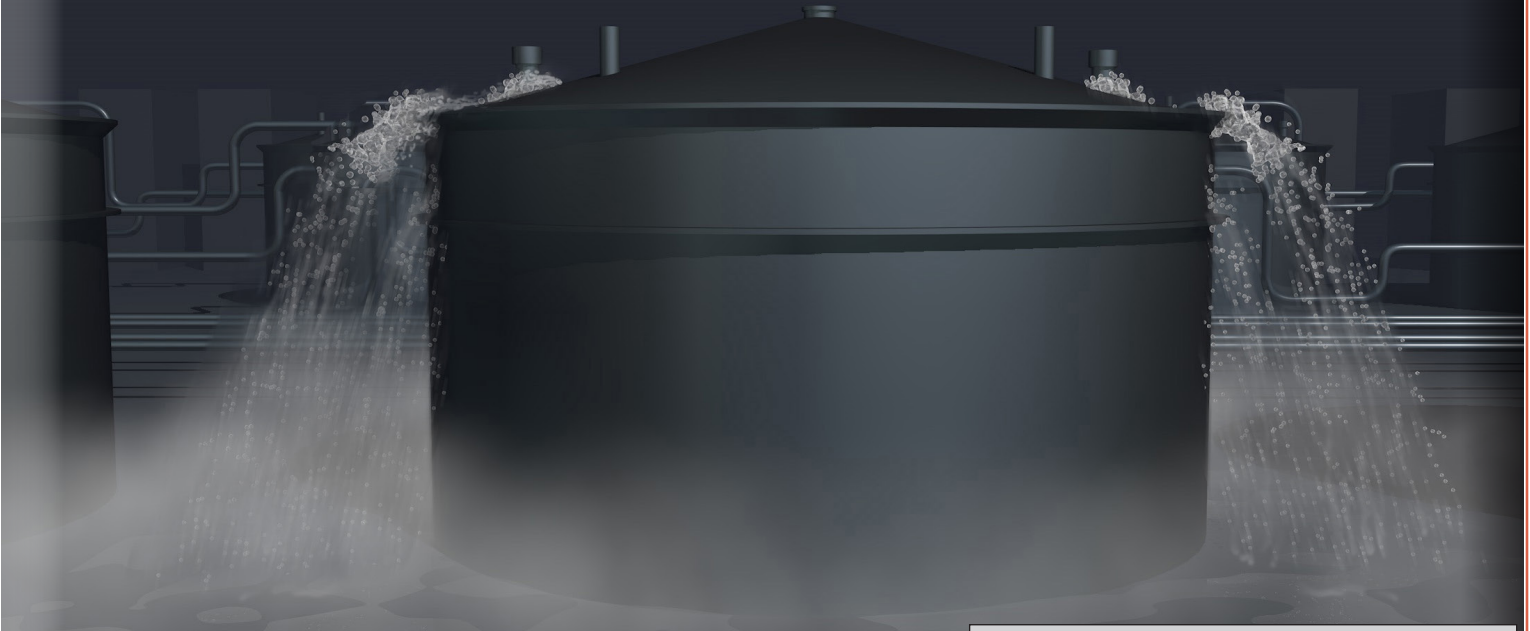
No injuries

No fire

No explosion

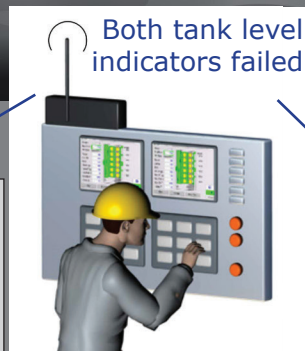
No release outside site boundary

Transferring unleaded gasoline tank to tank
Scheduled transfer of 3750 m³ to depot tank.



Receiving tank (floating roof) overflowed
20 m³ of gasoline overflowed.
Gasoline overflowed into a tank basin.
Gasoline flowed through open drain in the basin.
Then into the storm-water drainage system.

Level indicator (radar) gave false reading
Indicator reported levels 3m below actual level.
During filling, water at tank bottom rushed up and into a solid vertical shaft used for measuring level.
Water, heavier than gasoline, depressed the gasoline level inside the solid measurement shaft.



Hydrocarbon sensors alarm for vapors
Alarm at storm-water pumping station detected hydrocarbon vapors in storm water.
Control room operators responded to alarm.
Operators shutdown gasoline transfer.

Hi-Hi level indicator failed
Hi-hi alarm independent of radar alarm.
Hi-hi uses plunger-type lever.
Plunger stuck.
Did not detect hi-hi tank level.
Did not send alarm to control room.
Did not auto shutdown pumping into tank.

Tested all remaining hi-hi level indicators
Similar hi-hi level indicators on 7 other tanks.
6 passed testing; 1 failed during testing.
All 8 replaced with a non-plunger type indicators.

Begin tank purging maintenance
All tanks now purged on a regular schedule.

Big lesson: more real life testing
More equipment testing under actual operating conditions.
Testing beyond simple equipment inspection.

Change procedure on basin drain
Due to days of heavy rain, basin drain was intentionally left open.
Overflowing gasoline entered the storm-water system through this open basin drain.

Remind everyone of risks
In a [study of 15 tank overflow incidents](#):
13 of them led to fire and explosion.



Safety Alerts samples can be downloaded from www.Larkin.Biz

Safety Alert

3 Teeth Knocked Out Removing Piping

Workers removing plastic dredge piping from a pond.

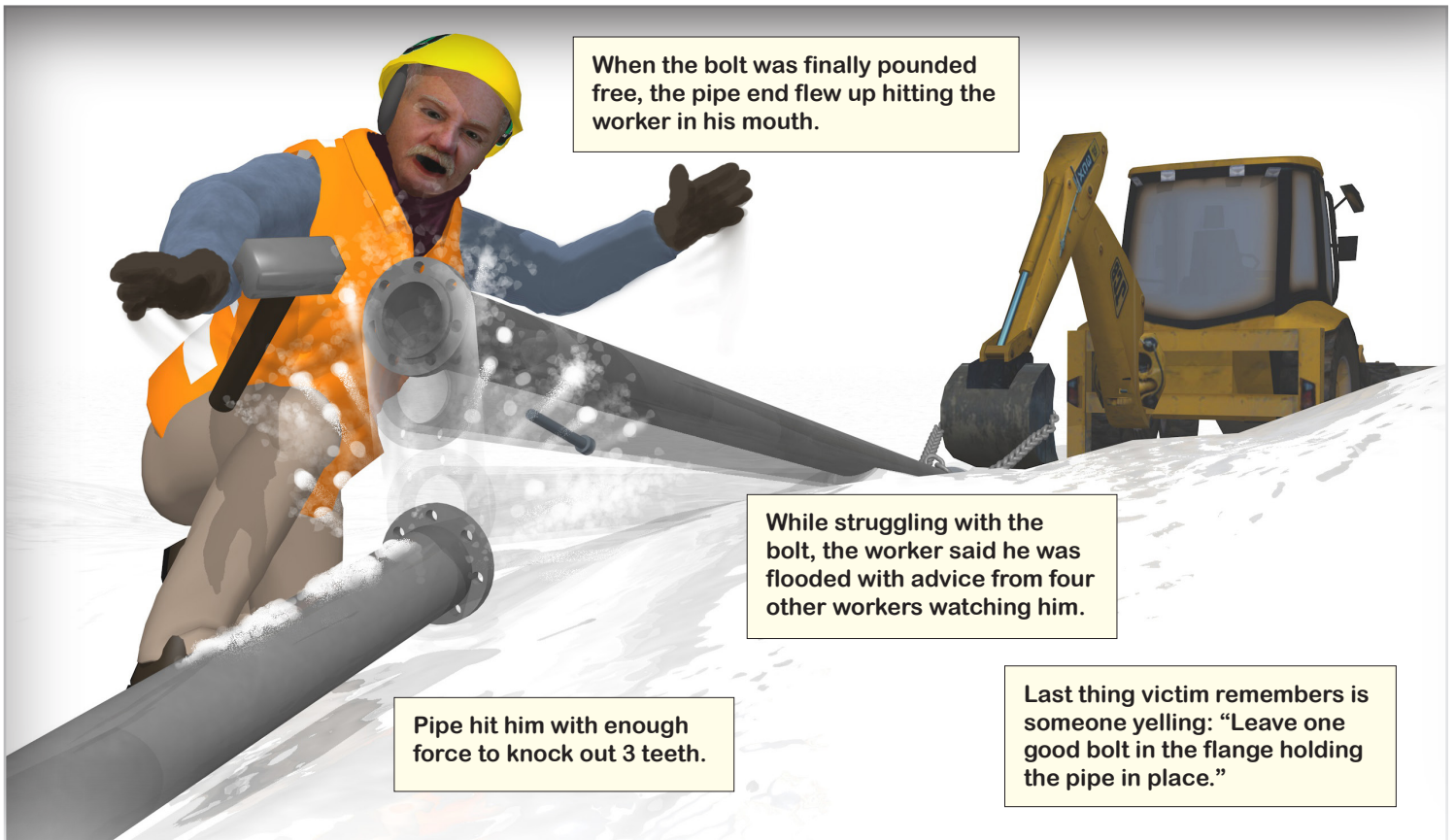
Pipe laying on uneven ground.

All bolts removed except for one. Last bolt was stripped and firmly stuck.



Worker switched between using a grinder and a hammer to remove the bolt.

When the bolt was finally pounded free, the pipe end flew up hitting the worker in his mouth.



While struggling with the bolt, the worker said he was flooded with advice from four other workers watching him.

Pipe hit him with enough force to knock out 3 teeth.

Last thing victim remembers is someone yelling: "Leave one good bolt in the flange holding the pipe in place."



Engineering is designing equipment that will hold piping in place during assembly and disassembly.




Step Back 5x5

Immediately before doing the work, employees take 5 steps back and 5 minutes to talk about risks.



Safety Dept looking at risk analysis tool: "Step Back 5x5"

Employees, as a group, talk about what could go wrong and how to protect themselves.

 Safety Alerts samples can be downloaded from www.Larkin.Biz

SAFETY ALERT

Working at Height Incident: Scaffold

Contractors are in the middle of disassembling scaffold and are on break in contractors trailer.

Employee, alone, climbs scaffold. He sees bucket and tools near edge that could be a falling-object hazard.

Top guard rail is missing.

Midrail is there, but "through bolts" are removed.



Employee tries to attach his lanyard to midrail. Midrail comes loose and falls. Employee loses his balance and also falls.

Employee falls 30 feet. Survives, but breaks his tibia, ribs, and rotator cuff.

Estimated speed when employee hits ground = 30 mph.



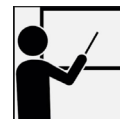
No Warning Tag



No Barricade at Scaffold Entrance



Ignored "No Work Alone" When Working at Height



No Scaffold Training for this Employee



Safety Alerts samples can be downloaded from www.Larkin.Biz

Go from this

File Message Help Adobe PDF Tell me what you want to do

Larkin Communication | TJ Larkin 4:52 PM

Safety Alert: External Environments Nitrogen Asphyxiation

SAFETY ALERT

To: All Manufacturing Supervisors
Re: Risks of Nitrogen Asphyxiation in External Environments

It has come to our attention that across the manufacturing operation we are experiencing an increase in incidents involving nitrogen asphyxiation with a preponderance of these incidents occurring in environments exterior to our enclosed operating facilities.

Supervisors need to employ greater vigilance in occurring immediately.

It is fallacious assumption held by many that nitro incapacitate, sometimes with lethal consequences.

Should such an event occur, it is important to no rescue responsibility to these especially trained i

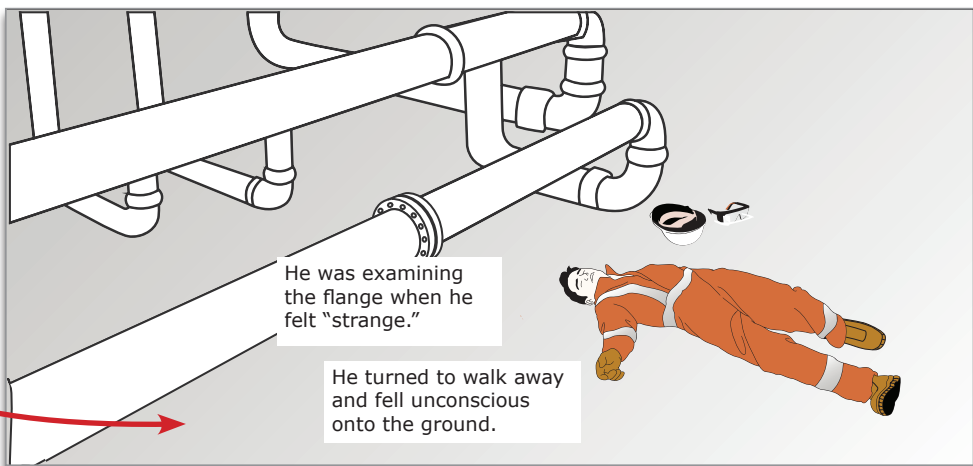
To this

Safety ALERT

Worker Falls Unconscious (Nitrogen) Outside

Before starting up, operators were purging a line with nitrogen.

Another operator, passing by, heard a loud hissing sound coming from a flange. He decided to investigate.



He was examining the flange when he felt "strange."

He turned to walk away and fell unconscious onto the ground.

A contractor saw him fall and called the emergency response team.

By the time the response team arrived, the fallen operator was back on his feet and feeling normal.

Operator said he assumed the leak was nitrogen and since he was outside, it was "OK to have a look."

⚠ DANGER NITROGEN Air Products says injuries and fatalities are happening with nitrogen used outside.


Operator should have reported the leak to those responsible for the area.

Contractor did the right thing not trying a rescue. Instead, he called the emergency response team.

Procedures for examining a suspicious flange involve isolation and LOTO, before anyone gets close.

Operator was not certain the leak was nitrogen; ethylene oxide, cyanide, hydrogen sulfide all used at the plant.

BP says nitrogen is the largest cause of fatalities in their plants.

 Safety Alerts samples can be downloaded from www.Larkin.Biz

Making a Safety Alert Together - What to do Next

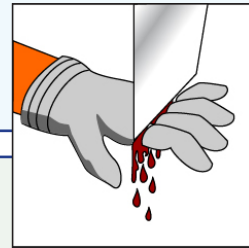
Who is Working with TJ?

You work with TJ alone.
You chose a team to work with TJ.



Pick a Safety Alert

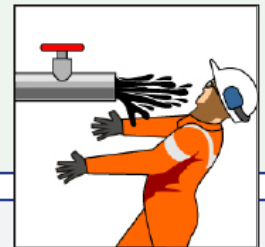
Choose a new alert you are getting ready to communicate.
Choose one of your older safety alert to practice.
Or, use one of our generic safety alerts.



3 Sessions with TJ

Session #1: Text in short tight text boxes.
Session #2: Preparing instructions for artist.
Session #3: Placing words & illustration on one page.

Your New Safety Alert is Ready to Go



Price


Live (face to face) or Virtual

Call TJ & Sandar to schedule your times.

Live = US\$18,000 (TJ pays own travel in USA/Canada)
Three sessions within 5 consecutive days.

Virtual = US\$12,000



 Safety Alerts samples can be downloaded from www.Larkin.Biz