

# Conventional technologies

- unreliable, complicated technology (fire water network, pumps, foam generators, monitors, fire fighting vehicles etc. are needed)
- long preparation time (sometimes long hours)
- very long extinguishing time (sometimes days)
- low performance
- manpower is needed
- designed according to old-fashioned standards

## Experiences in most cases:

- storage tanks are burning for days
- enormous losses (tank rebuilding, losses in product)
- unacceptable air pollution



### Hokkaido-Japan Ø42 m naphta tank

- the tank was burning for 42 hours and finally collapsed
- approx. 120 m<sup>3</sup> of foam concentrate was used
- hundreds of firemen were fighting this fire
- more than 20 fire trucks were used
- enormous air pollution and a catastrophe situation



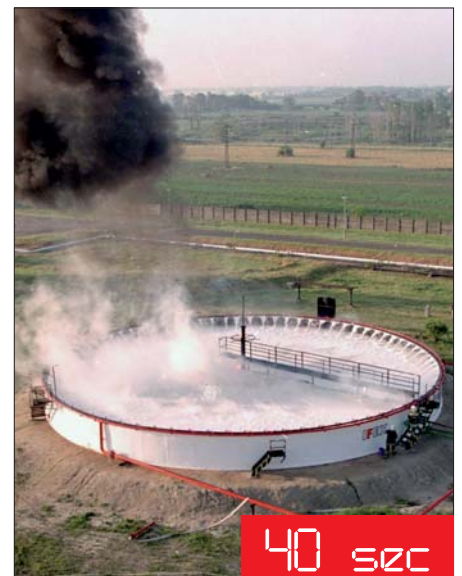
### Orion-Norco, LA. Ø80 m gasoline tank

- 13 hours of burning time, damaged tank
- water supplying and technical problems
- more than 200 firefighters were working
- enormous air pollution and a catastrophe situation

# The FoamFatale™ technology



- does not require fire water at all
- automatic intervention within 5-10 seconds after ignition
- extremely fast extinguishment (maximum 2 minutes)
- works without the intervention of any personnel
- minimal air pollution
- the tank and the stored product is saved
- maintenance at minimum costs



# A revolutionary method to extinguish fire in storage tanks handling flammable liquids

It is a common knowledge that doubling and tripling the standard foam application rate greatly increases the success rate of fire extinguishing.

## FoamFatale™

FoamFatale Greece Ltd. offers a revolutionary new extinguishing technology, using 20–30 l/min/square meter foam solution intensity. This is the FoamFatale™ system.

## Self-Expanding Foam supply system

Unlike in traditional foam supply systems the foam is not generated at the time and location of fire fighting, but well in advance and it is stored under pressure in a vessel.

## Continuous Linear Nozzle

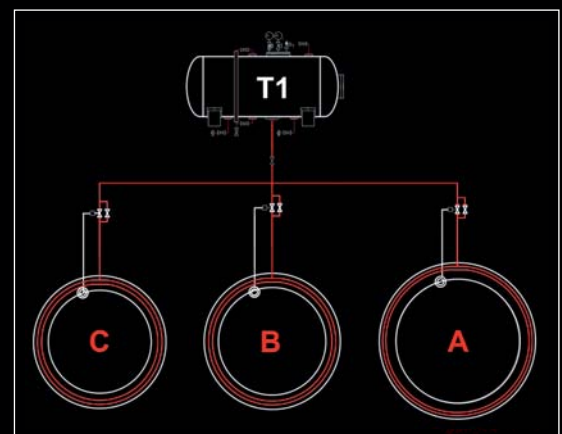
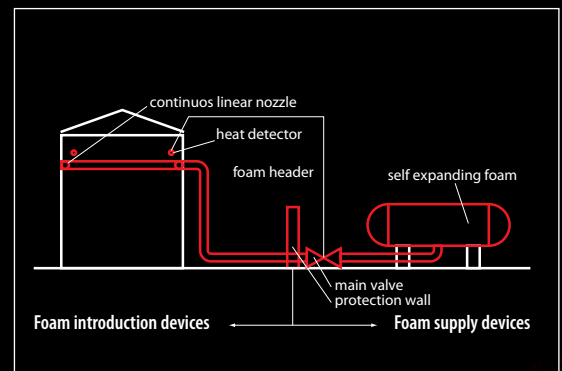
To accommodate the huge foam flow the technology uses the patented Continuous Linear Nozzle (CLN) foam application device. The ring-shaped CLN consists of a round pipe installed at a small distance from the internal wall of the tank, over its full circumference. The diameter of the pipe is properly dimensioned for the foam flow it has to handle.

## System operation

In case of fire the heat detectors open the master valve. The Self-Expanding Foam immediately expands in the pipeline, then exits through the Continuous Linear Nozzle, flows down on the inner side of the tank shell (immediately cooling it), and on to the surface of the liquid. In a very short time the extending foam blanket will close. The foam blanket will be so thick that there is no danger of reignition.

## Advantages of the FoamFatale™ system

- does not require any external resource (water, electricity, manpower)
- fully autonomous
- no pumps, no proportioners, no aspirating devices
- enormous effectiveness
- considerably lower investment in installation
- considerably lower operating and maintenance cost
- simple, robust, thus very reliable



FoamFatale Greece Ltd.

[www.foamfatale.gr](http://www.foamfatale.gr)