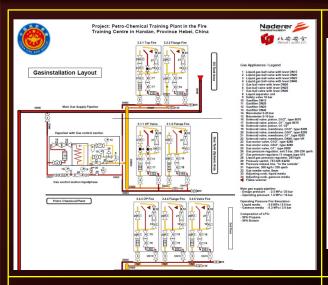
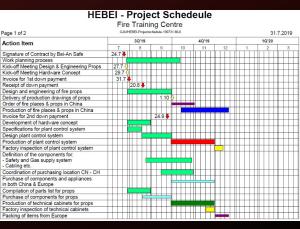
FEEL THE FIRE – Firefighter Training Today



Company Philosophy









Engineering

Design

Development

Manufacture

Commissioning

Project Management

complete from Design to Commissioning

Installation Commissioning After Sales Support

Installation

Commissioning

Maintenance Services and/or

Complete Overhaul at Customers location

Expertise in Fire Simulation





Mobile Fire Simulators for Fire Extinguisher Training

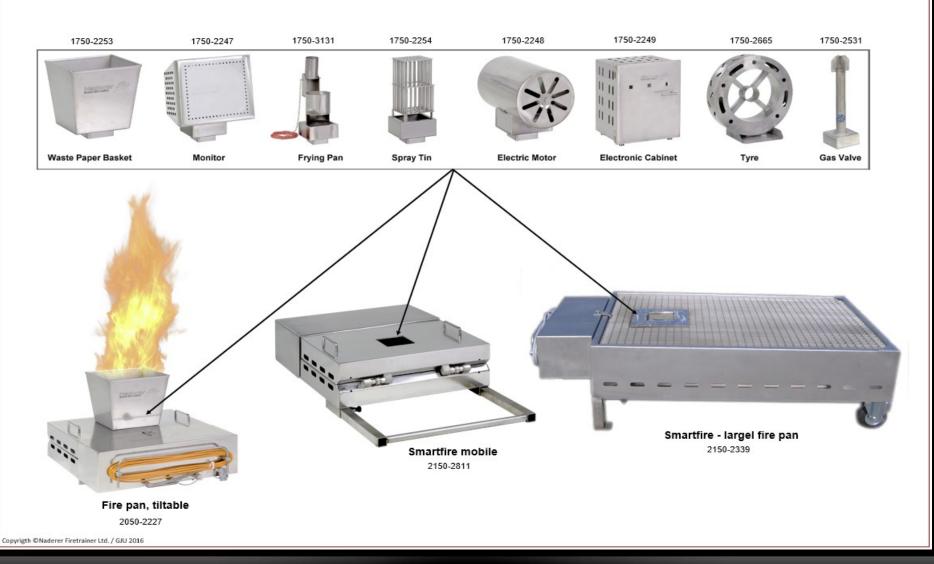




Mobile Fire Simulators for Fire Extinguisher Training



Use of inactive Mock-up modules





Fire Fighter- / Water Jet Gun Training











Mobile Firefighter Training Modules







"Barrels on Fire"







"Flamewall"







Inside the Fire house – Attack with CAFS-Foam



"Gasbottle-Valve Fire"





Water jet gun- and team training

Surface or Liquid Fire











"Tank or Valve Fire"





The following quenching agents can be applied:











"Firecar"













Hazardous Goods- and Fire Training Unit









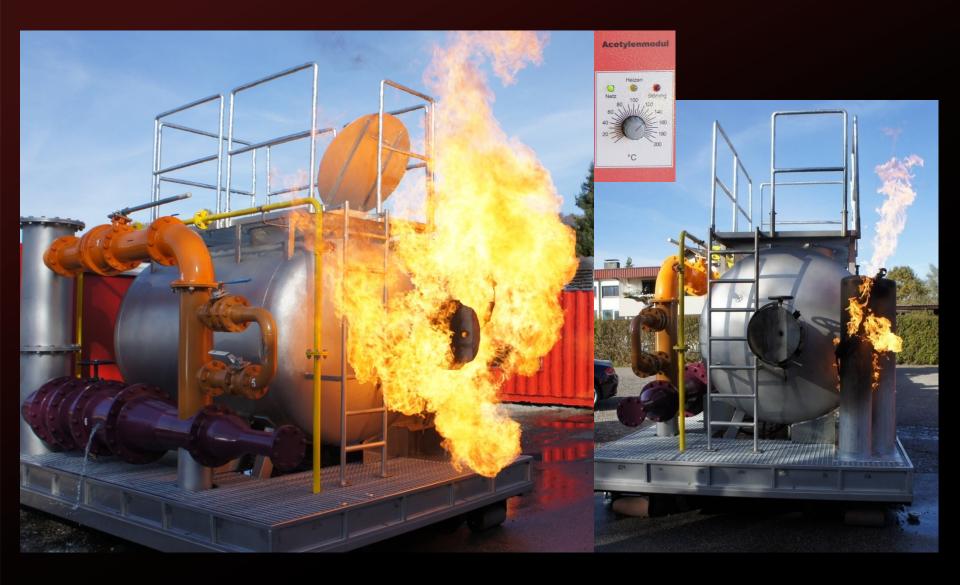


Hazardous Goods- and Fire Training Unit



- Water
- Foam
- Powder

3-fold Extinguishing Attack



Mobile Fire Extinguisher Training Truck







Fire Extinguishing Sensors

The modern Hollow-Jet nozzle guns are very efficient in the hands of well trained fire fighters. Modern Fire Simulation Training Plants should therefore be designed to accommodate this latest standards of fire fighting technique. Unfortunately this is rarely the case. Hollow jet nozzles work on the principle of heat reduction. This means, the better the handling of the nozzle, the faster the fire is extinguished and the less water was used to achieve this.

The right way to do: **Measure the temperature reduction!**

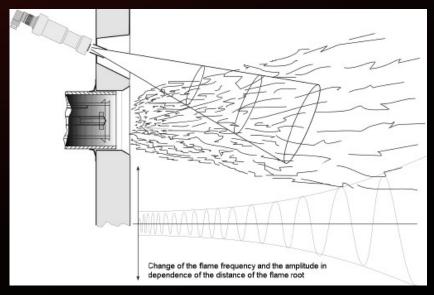


To evaluate the correct extinguishing technique, NADERER is consequently using thermal and optical sensors. Only this way, in connection with the corresponding software, it is possible to recognize the correctly executed firefighting action.

Fire Simulation Technology: Flame monitoring







Flame Scanning

Scanning of the Pilot Burner is achieved with an Infrared system as used in industrial applications.

Thus it is very reliable! If the pilot flame is extinguished inadvertently it can be re-started within 1 sec.

Therefore only very short interruption of the exercise!

Fire Simulation Technology: Safety Installations







Emergency - Stop

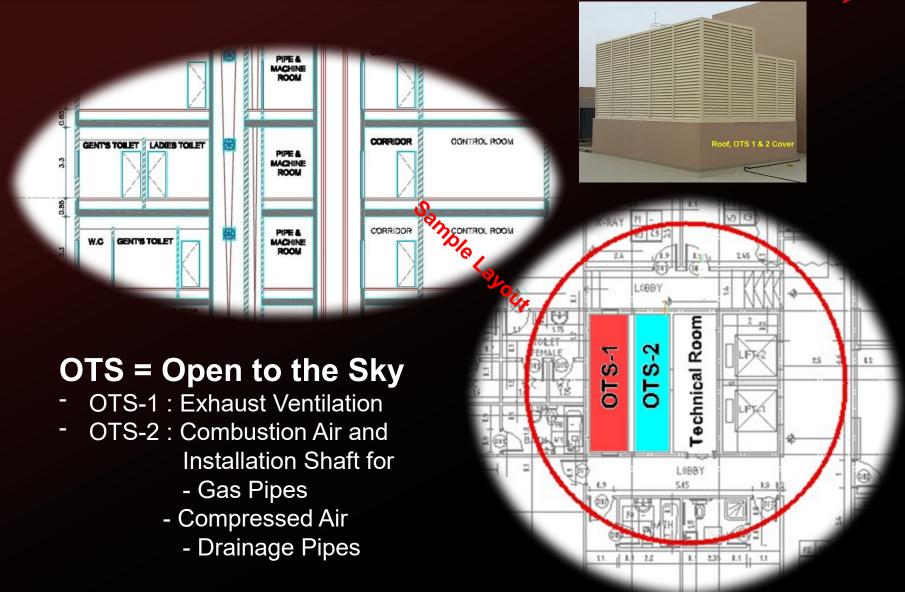


Gas Detection Sensor

Temperature Sensor

Fire Simulation Technology: Installation Shafts





Fire Simulation Technology: Combustion Air Ventilation





Fire Simulation Technology: Electrical Installation



For each fire simulation section a separate distribution cabinet is installed. It contains all the components for the fire simulation modules, smoke generators, Emergency-stop system, radio transmitter/receiver, ventilation and other components for the control of the fire simulation section.

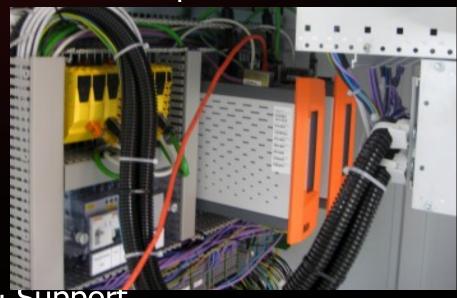




For the connection between the main control cabinet in the control room and the distribution cabinets fibre optical cables are used to ensure unlimited, continuous data flow.



- Computer based PLC-Control System (intrinsically safe)
- In Fire Simulation Applications unique
- Characteristics:
 - Reliability
 - Flexibility
 - Operability
 - Extensibility
 - Programmable
 - Remote Diagnose & Support





- Proven System Software
 (HBA Feldkirch, LFWS Geretsried, FRTC Frankfurt, LFWS Salzburg, BF Düsseldorf, HRB Abu Dhabi, ...)
- Control of all system components
- Divers Setting Possibilities (Parameterization)
- Automatic Fire Process Control
- Training scenarios can be programmed and saved in so-called Recipes
- Possible Fire Place Adjustment Parameters:
 - Fire-fighting Exercise Level 1 9
 - Setting of Exercise Level for each Fire Place individually
 - Development time of Flame Size
 - Time delay until re-ignition occurs
 - Temperature Level where back fire occurs
 - Activation of the Fire Places selectively
 - Activation of all Fire Places in the Sector simultaneously





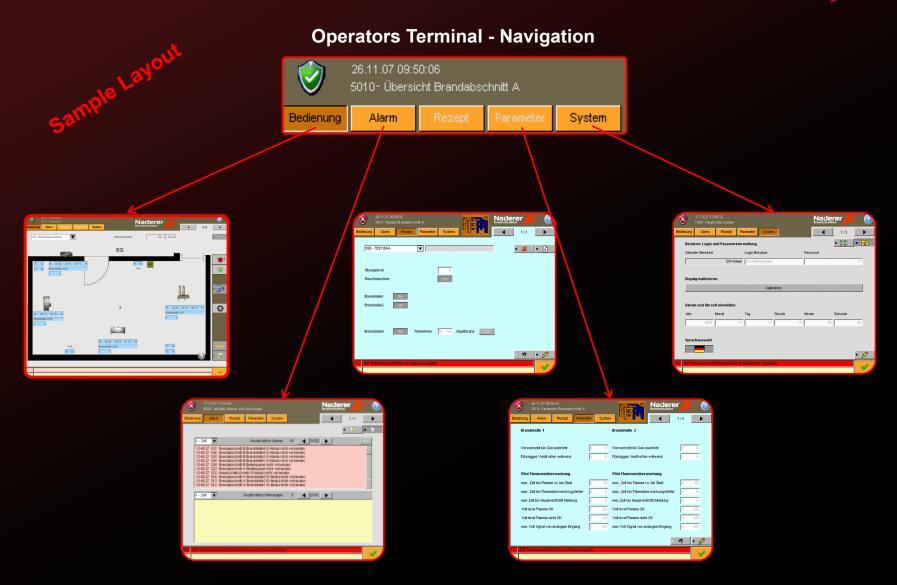
Control Room with State of the Art Plant Control System...

Sample

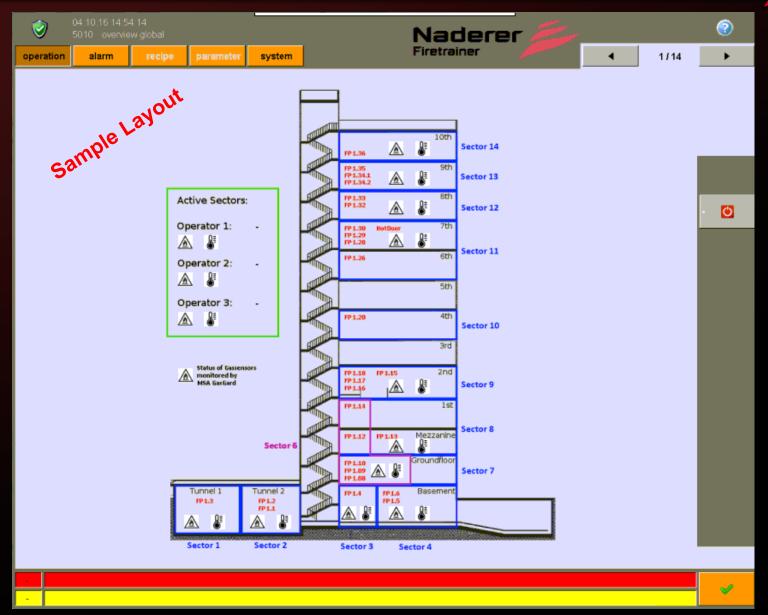
...with high resolution Touchscreens



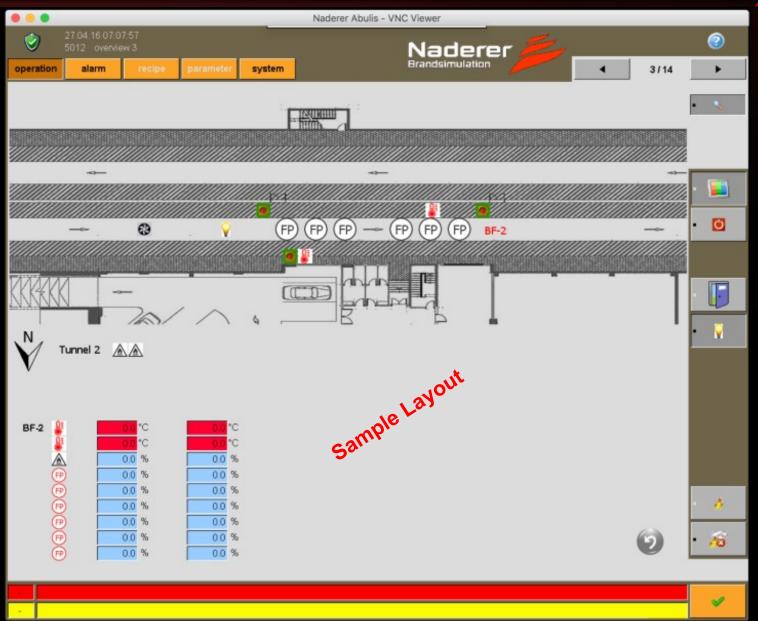










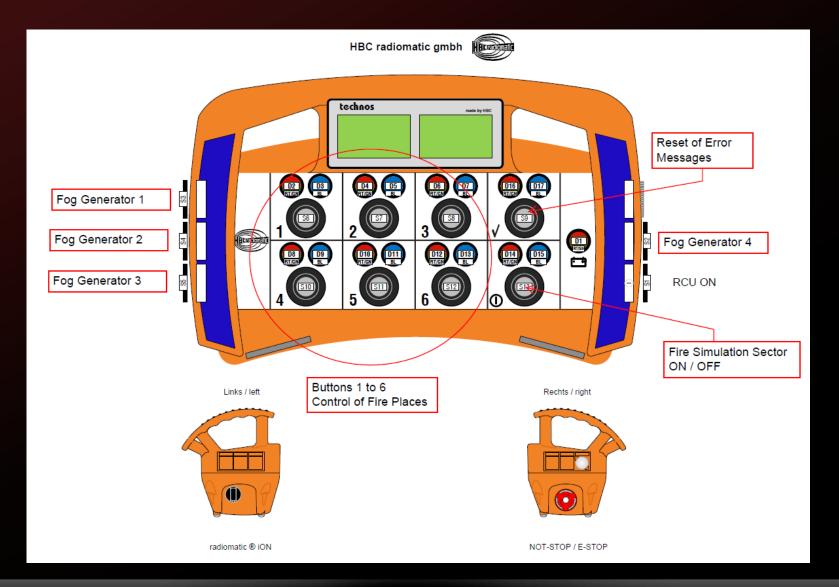








Wireless Remote Control Unit





Mobile Fire Training Container





Mobile Fire Training Container







www.naderer-firetrainer.com

info@naderer-firetrainer.com



















Mobile Fire Training Container MBA-2017-GVG





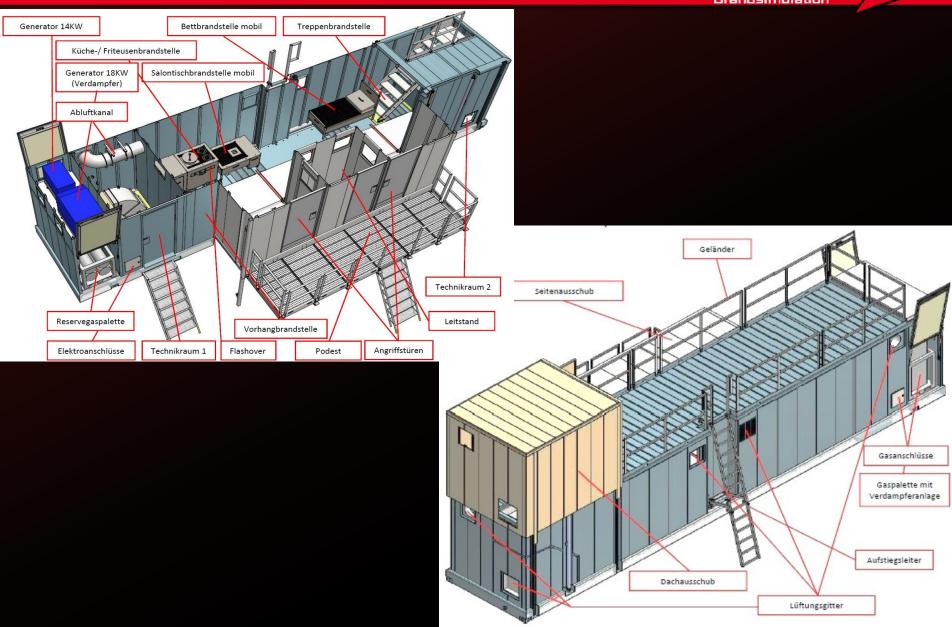


vertical & lateral Extensions



Mobile Fire Training Container MBA-2017-GVG





Fire Training Container 45" Civil Defense Abu Dhabi







Industrial Fire Training Plant







Training Centre Andelfingen, Switzerland





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info@naderer-firetrainer.com



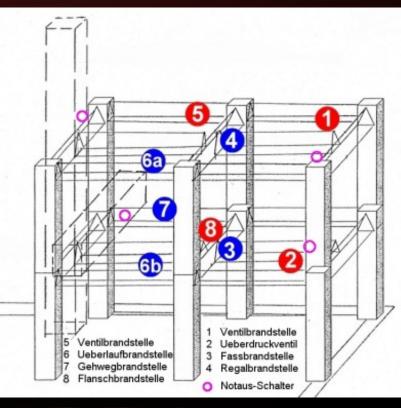
Industrial Fire Training Plant























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County Fire Fighter Academy Feldkirch, Austria





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County Fire Fighter Academy Feldkirch, Austria













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Fire Fighter Academy, Geretsried, Munich











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FTC Geretsried



- 1 Valve Fire
- 2 Pipe section on Fire
- 3 Surface Fire 50 m²



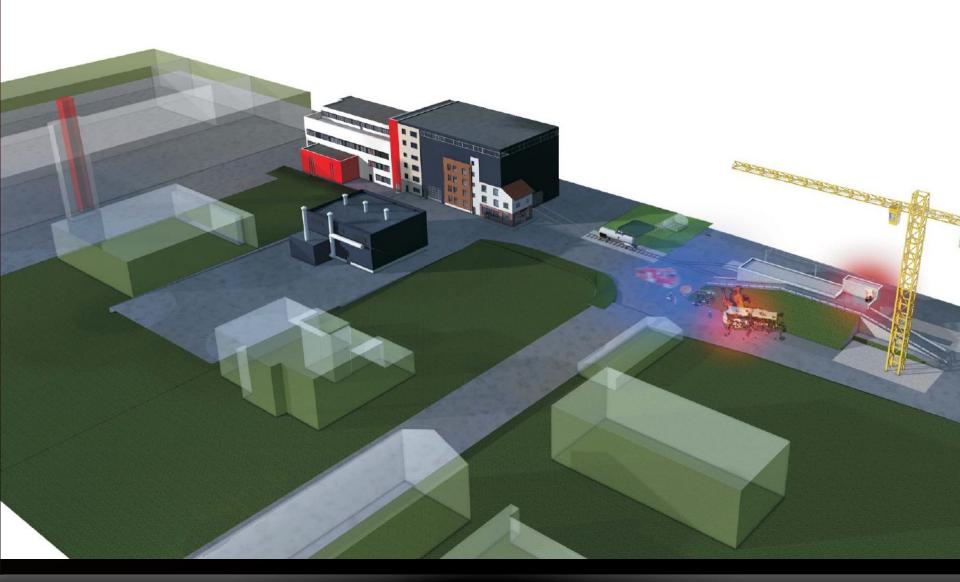




(FRTC) Fire- and Rescue Training Centre

Naderer Brandsimulation

Frankfurt am Main



(FRTC) Fire- and Rescue Training Centre



Frankfurt am Main



(FRTC) Fire- and Rescue Training Centre





(FRTC) Fire- and Rescue Training Centre Naderer Frankfurt am Main **Dach-Brandstelle Fire Place Roof**

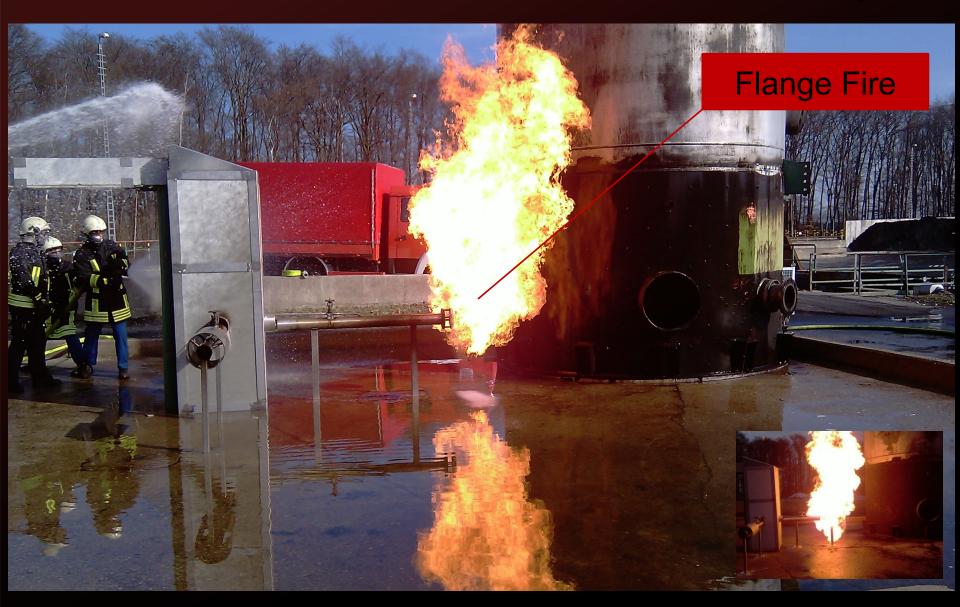
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info@naderer-firetrainer.com

Bett-Brandstelle

OMV Refinery Burghausen





Fire Training School Salzburg Austria









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Fire Training School Salzburg Austria



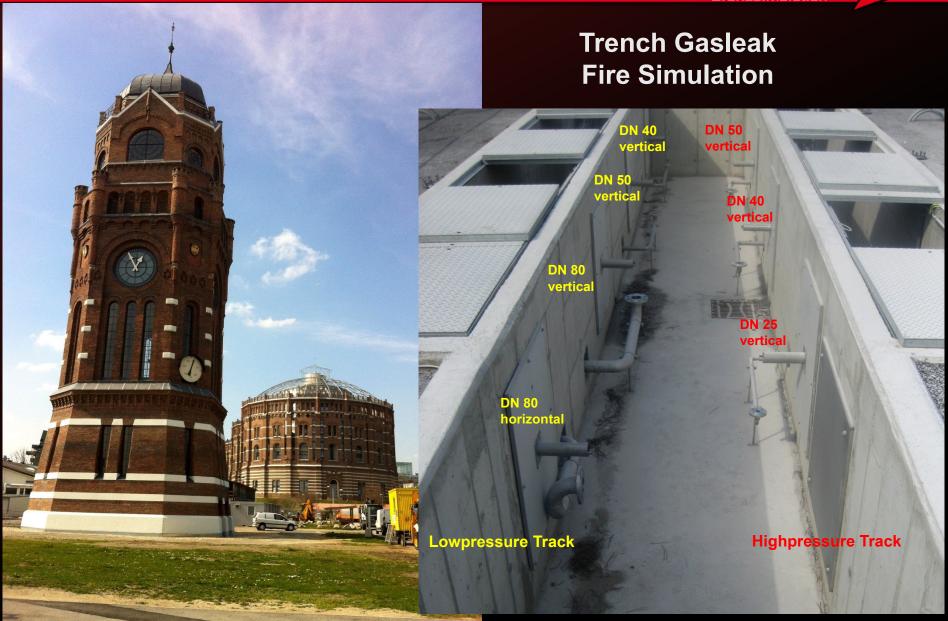






Vienna Network, Austria





Vienna Network, Austria

Naderer Brandsimulation











Naderer Brandsimulation **OMV Petrobrazi Refinery, Ploiesti, Romania Industrial Fire Training Plant**







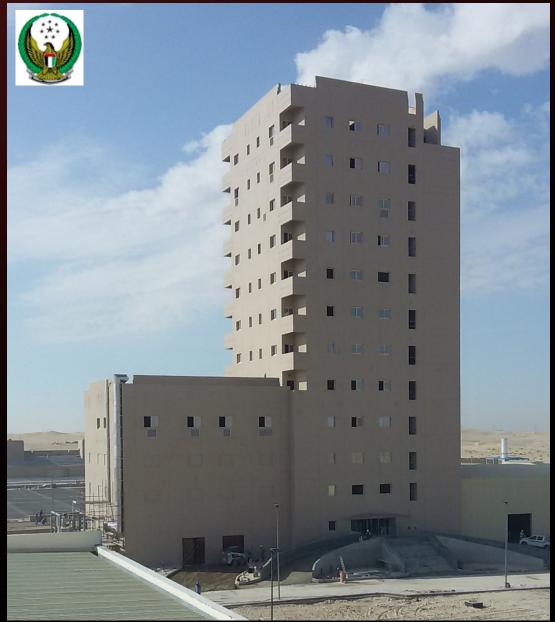












High Rise Fire Training Building for Civil Defence Training Academy









High Rise Fire Training Building for Civil Defence Training Academy





Flashover with Ceiling Fire



High Rise Fire Training Building for Civil Defence Training Academy

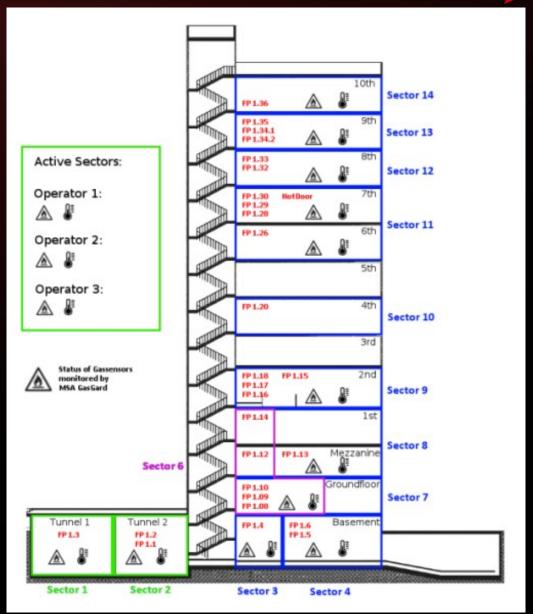






To control:

- 14 Fire sectors
- 3 Operator stations
- 3 Wireless remote control units
- 3 Fire sectors + HAZMAT can be operated simultaneously
- 27 Fire simulators with 35 Fire places &
 45 stages of Fire.
- 1 Hot Door
- 1 Special Effects Cabinet 4th Floor
- 13 Special Effect Props in the HAZMAT
- 24 Smoke generators
- 10 Smoke distribution flaps
- 50 Gas sensors
- 37 Emergency stops
- 57 Emergency lights
- 90 Thermal sensors
- 61 Thermal probes
- 20 Combustion air fans
- 24 Exhaust axial fire gas fans
- 4 Exhaust roof fire gas fans
- 2 Circular duct fans
- 139 Solenoid gas valves
- 44 Solenoid air valves
- 23 Solenoid water valves
- 7 Solenoid acids valves
- 34 Regulating motor gas valves
- Flue Gas Cleaning Plant (Smoke Filtration)
- 28 Day/Night & 27 Thermal Cameras



Aircraft A320 Wing & Landing Gear Fire





International Airport Al Ain, Abu Dhabi

Quality Control System









ATTESTATION

Test of the Functional Safety and the related Electrical Equipment of Representation Appliances in a Fire Training Building

Test Laboratory TÜV SÜD Industrie Service GmbH

Feuerungs- und Wärmetechnik Ridlerstrasse 65

80339 München, Germany

Subject of Test

ATTESTAZIONE

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CONSTANCIA

• 0

свидетельств

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证明

•

ESTATION

Ē

ESCHEINIGUNG

Project Fire Training Building, Phase II Representation appliances for fire scenarios in a fire training building including the connection to the supply line of liquefied petroleum gas

Ordering Company

Naderer Brandsimulation AG Ocostraße 20, 5330 Bad Zurzach

Switzerland

Location

Civil Defence Training Academy

Abu Dhabi

Basis of Test

DIN 14097-1:2005-05 DIN 14097-2:2005-05 DIN EN 746-2:2011-02

Test Report

E-F 2134-02/17 dated 2017-06-14

The tests in the scope of the order have been performed with positive results. The results in detail, the evaluation of the results and the conclusions out of the results are described in the above mentioned test report.

Munich, 2017-06-23

Feuerungs- und Wärmetechnik

Johannes Steiglechner

Headquarters: Munich Trade Register Munich HRB 96 869 VAT ID No. DE129484218 Information pursuant to Section 2(1) DL-InfoV (Germany) at www.tuev-sued.com/imprint

Supervisory Board: Board of Management: Ferdinand Neuwieser (CEO), Dr. Ulrich Klotz, Thomas Kainz

Telefax: +49 89 51 90 - 3307 E-mail feuerung@tuev-sued.de www.tuev-sued.delis TUV®

TUV®





Feel the fire - go Naderer!



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Badstrasse 26
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Tel.: +49 7761 553 90 9-0 Fax: -23

China:

Naderer Firetrainer China Ltd. Huang Shan Road 3, Mercury Building A1 Chongqing, China



Partners:

PfE Premiers for Equipment Mr. Raid Yaghi Sh. Zayed 1st Road P.O.Box 37438 UAE - Abu Dhabi



Beijing Bei-An Safe & Tech. Co. Ltd.

Mr. Li Howard Huating Room 608, Lisheng Building Wangfujing Street, Dongcheng District CN - 100055 Beijing

United Arab Emirates

