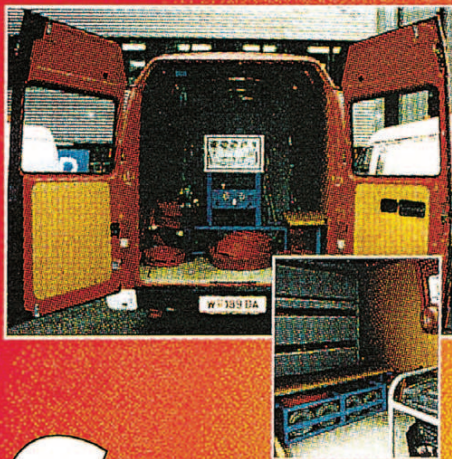
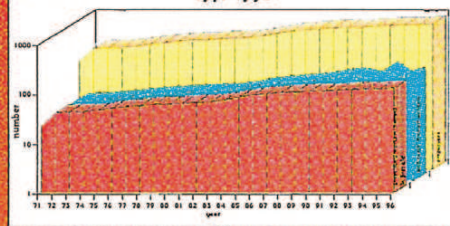


Steam Protective Car

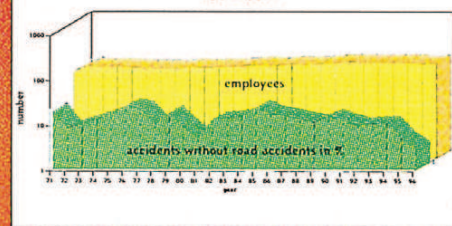
Quite a new construction especially for the Fernwärme Wien GmbH. to rescue employees that could have been exposed to boiling water or hot water steam because of an accident in one of the long distance shafts.



Education in First Aid Fernwärme Wien 1971-1996



Accident statistics waste incineration plant Spittelau 1971-1996



Improvement of the protection of employees

(look at accident statistics chart)

through:

- repeated instruction of employees
- optimization of the education in first aid (look at chart) by the medical doctor
- best selection of employees for special working places which require special physical conditions (i.e. fireworkers, high temperature working places) by the medical doctor
- periodical medical check ups

Safety Engineering

Occupational Health at the Fernwärme Wien GmbH installed in 1985

Equipment:



special fire-hose

2 steam protective suits

Those steam protective clothes can maintain an inside temperature within the suit of 50 C at an ambient temperature of 180 C (need of pressure air from 550 to 1000 l/min)

1 pressure air station with 50 Nm3 pressure air

2 x 40 m pressure air utility lines

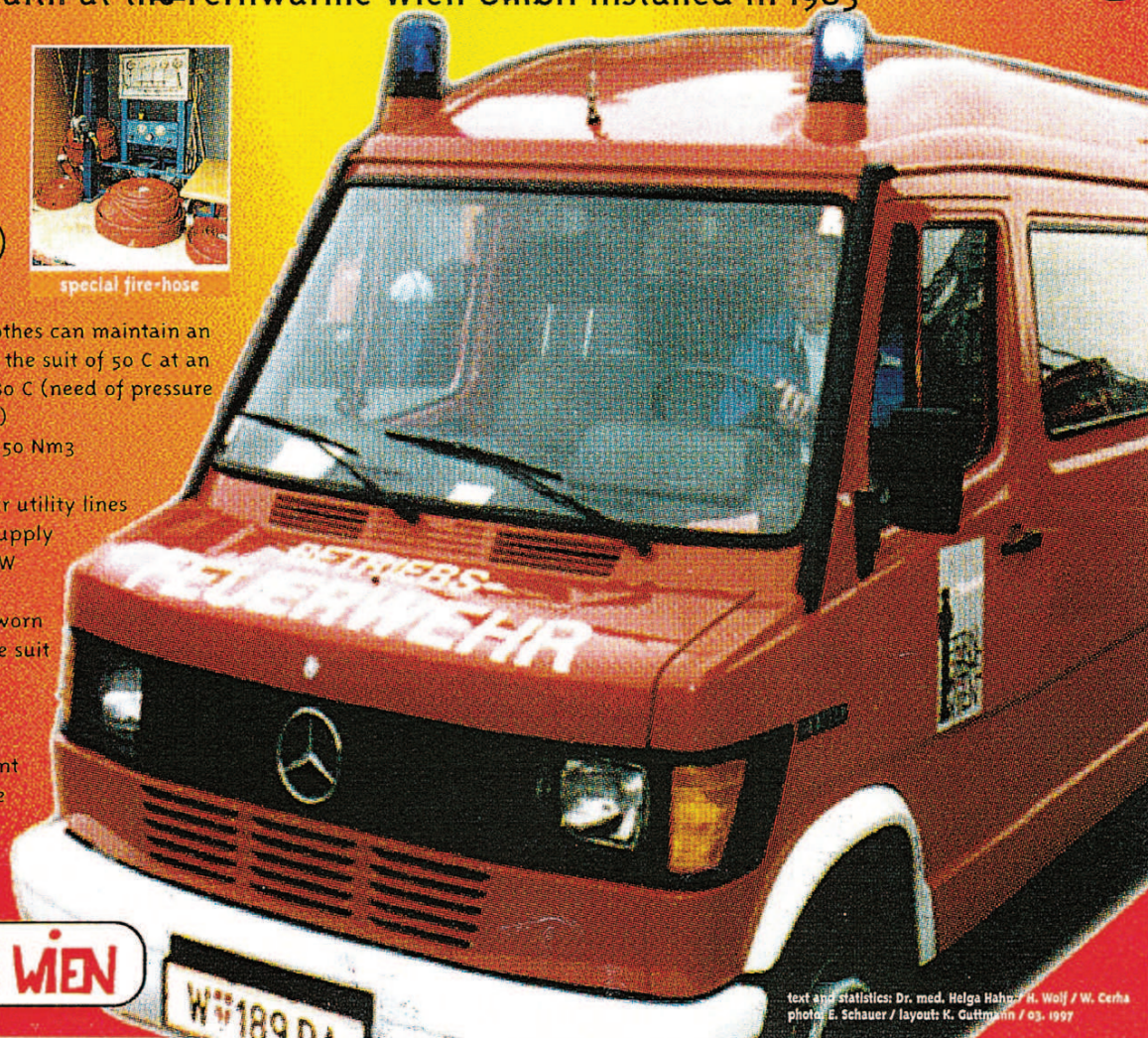
emergency power supply

5 spot lights a 500 W barriers

protective clothing to be worn under the steam protective suit

4 fire extinguishers salvage crane for

persons for rescuing employees after an accident in one of the long distance shafts.

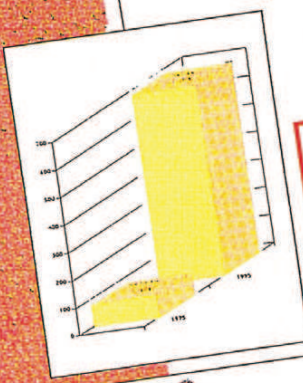


FERNWÄRME WIEN

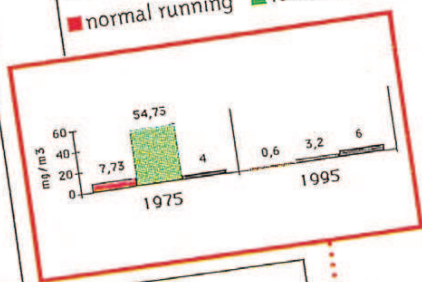
Dust protection

FERNWÄRME WIEN

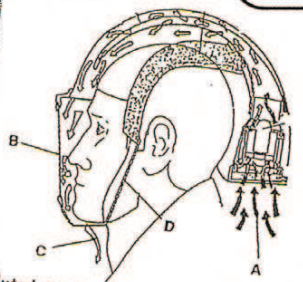
Enlargement of the district heating network from 1975 to 1995



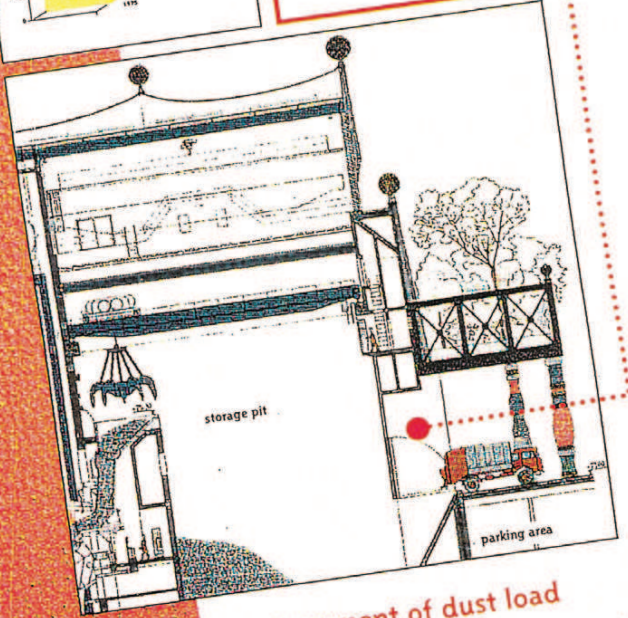
Dust measurements - storage pit



Function:



Polluted air is intaken at the backside of the helmet (A). The air flows over the head to the backside of the visor (B) and flows off at the bottom of the visor (C). A seal at the face (D) prevents the influx of polluted air and produces over pressure in the helmet.



until 1992 since 1993



Protective suit:

Kleenguard® protective suit consists of a 3-layer, textile like, breathable laminate which guarantees a high exchange of air, body heat and body humidity.

- more qualities:
- high tensile strength (11 kg)
- high abrasion resistance
- made of 100% polypropylene
- liquid repellent
- good movableness
- disposal without problems

Development of dust load

The reduction of the high dust load at the storage pit between 1975 and 1995 is caused through the decrease of ash in household waste. This was possible by the enlargement of the district heating network and changing domestic heating systems from fossile fuels to natural gas. (see chart)

Spittelau District Heating Plant

