

Project Kijfhoek

Industrial Fire Brigade under article 31 Safety regions act

First Falck fire team in the Netherlands

May 3, 2012

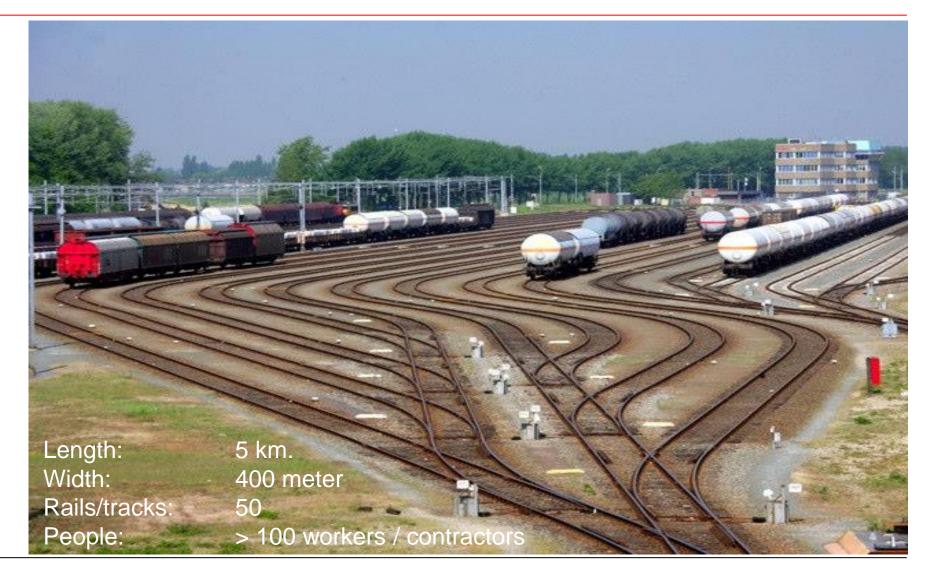


Train yard Kijfhoek, Zwijndrecht (1)





Train yard Kijfhoek, Zwijndrecht (2)



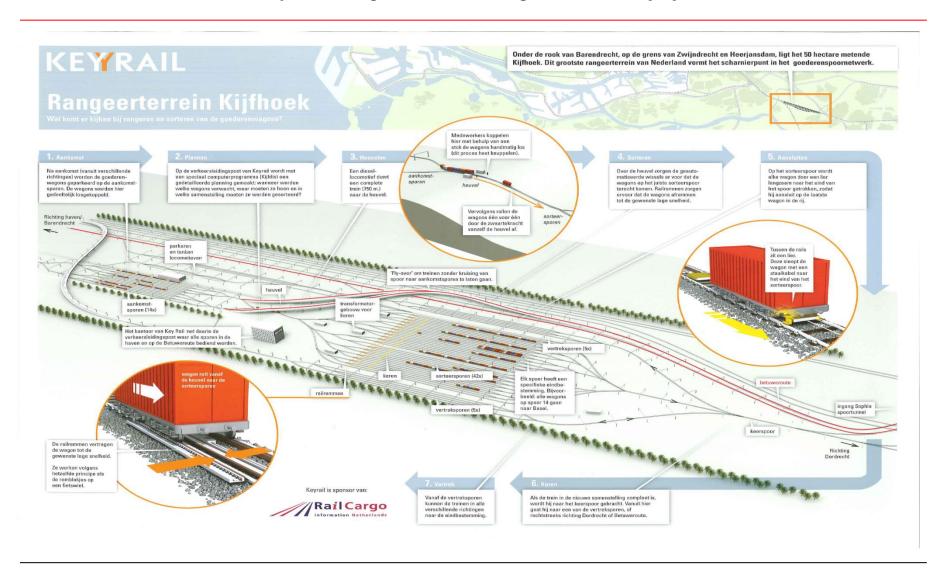


Train yard Kijfhoek, Zwijndrecht (3)





Train yard Kijfhoek, Zwijndrecht (4)





Driver 1 for industrial fire brigade on location: business continuity



Continuous drive of Prorail for:

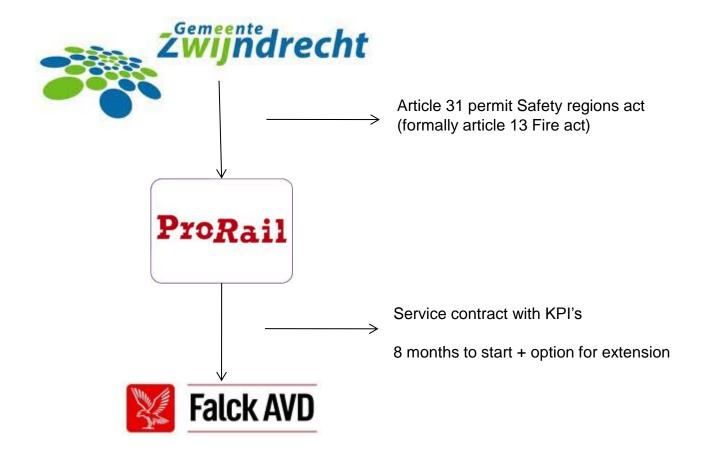
- high reliable service to its customers;
- safe working conditions for its employees and contractors;
- safe environment for train yard neighbors

Continuous attention on "license to operate"



31 May, 2016

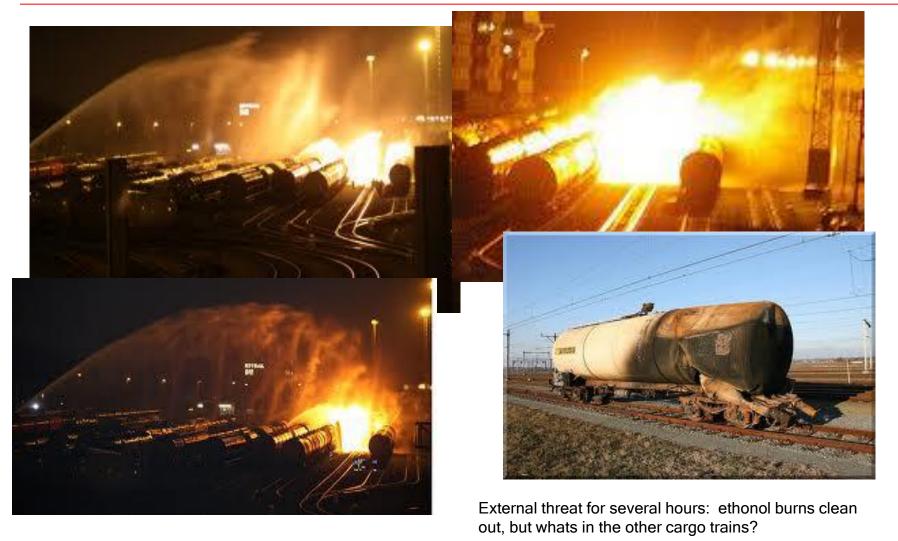
Driver 2 for industrial fire brigade on location: article 13/31 Safety regions act





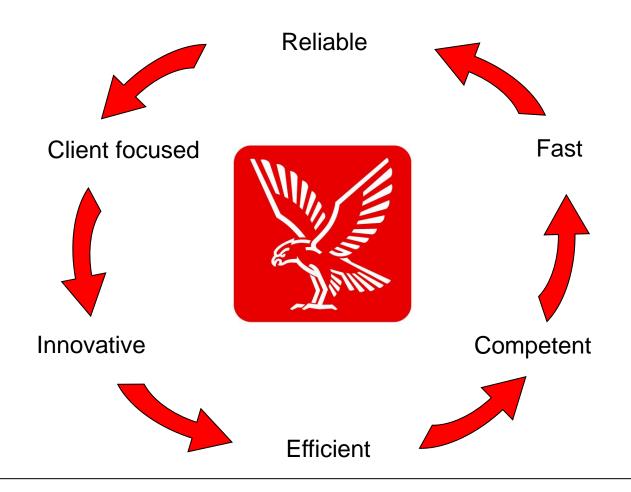
31 May, 2016

Driver 3 for industrial fire brigade on location: incidentmanagement (ethanol incident Jan14, 2011)





Falck core values, the start of everything...





Team, equipment & tasks (1)

Tasks:



- Guarantee a fire team with 7 operational positions, 1/24/305
- Be prepared for industrial fires and hazmat scenario's in the extraordinary category
- Response time: 6 minutes after alarm available on all locations at the yard
- Maximum continuos working period during incident: 4 hours
- Fit in the Prorail procedures for safe work & emergencymanagement
- Fit in the Public procedures for alarming & scaling (both for small incidents and for disastercircumstances)

Tasks based on credible scenario's as defined by Prorail Legal requirements for operational performance fire team set in article 31 permit



Team, equipment & tasks (2)

Team, equipment & housing:



- 28 fire fighters/teamleaders in 4 teams
- Fire equipement, fire truck and mobile pumps
- Fire station (provided by Prorail)
- Firewater & foam on truck (fixed fire water system provided by Prorail)
- Project Manager
- Operational manager
- Back office with all necessary knowledge



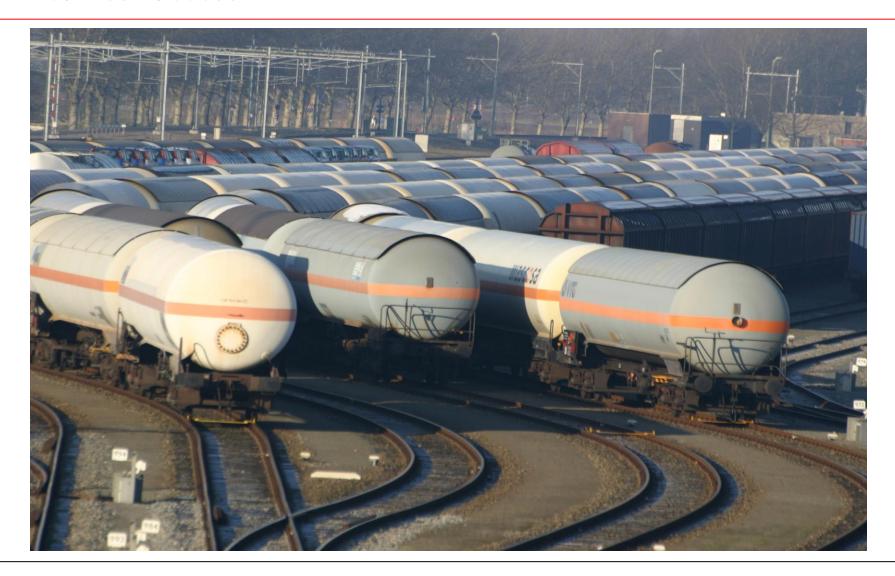
Special responsabilities in a special world

- Special environment (with difficult and limited access to various locations)
- Primary business process of adressing cargo trains to rails, based on gravity (so called "Hill-proces")
- Both old and modern cargo trains
- Regulair trains + high speed trains (HSL/TGV Paris-Brussels-Antwerp-Rotterdam-Amsterdam) next to train yard
- An unknown world with a lot of specific procedures and detailled safety rules
- Falck AVD had to prove they can work with a high quality standard in the railway world, respecting all the existing safety measures of ProRail
- Quality manual for the fire services on Kijfhoek



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Difficulties: access





Difficulties: distances





Educational background & training

Basic education fire fighters/team members (all):

- Complete program public fire fighter ("manschap A/B")
- Complete program hazmat teammember
- Modules industrial fire fighter
- Training for specialist rail emergencies
- Driverslicence heavy trucks

Basic education team leaders (all):

- Complete program teamleader at public fire services
- Complete program Industrial fire fighter

Training & exercise:

- 4 hours every shift
- Before start: 4 days on external trainingcenter



Quality manual (Basic)

NEN-ISO-10005 (Index):

- Generally
- Field of coverage
- Starting points
- Management responsibilities
- Inputs
- Employees
- Requirements
- Specification of fire services
- Communication





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Quality manual (Supplement)

Supplements (the most important):

- Job specifications
- Training and fire drills
- Safetyrules ProRail
- Rules of Kijfhoek
- Rules of the Falck Fire Brigade
- Work instructions and rules

Distribution of tasks (ProRail and Falck) Risk management

Implemented in "Safety Portal" as managementtool for planning & reporting



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Monthly reports

18

- Fulfilment of fire fighters
- Training and fire drills
- Equipment
- Operational activities
- Quality measurements
 - Theory
 - Fire Fighting
 - Leaks of hazardous substances
- Indicators of results





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Indicators of results

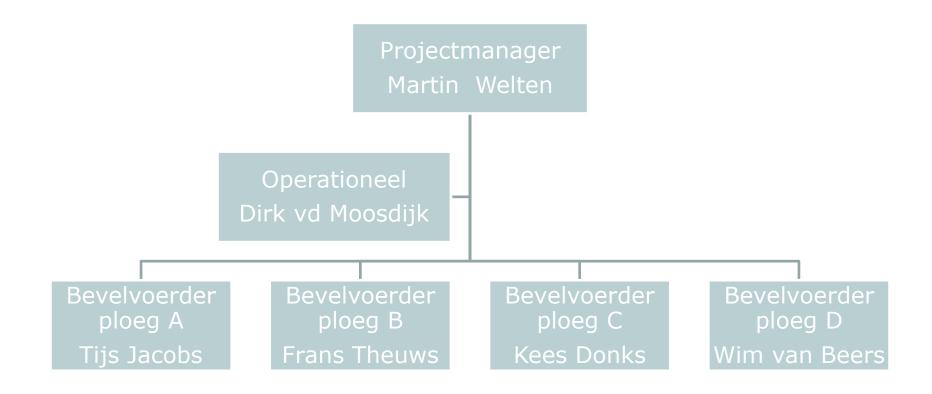
- Daily presence of operational crew
- Qualified crew
- Fire crew
- Medical health certificates
- Document of activities and results
- Procedures and requirements
- Organisation
- State of the equipment
- Replace equipment in case of damage
- Foam accorded by the government fire brigade
- Check of the foam
- Documents of the checks
- Maintenance of equipment
- Schedule op maintenance in documents
- Checks of the fire engines

- Right storage of equipment
- Certificates in documents
- Training as required
- Knowledge and skills
- Requirements of training program
- Procedures emergency organisation
- Transmission equipment
- Protective equipment
- REMI procedures
- Information for fire brigade government
- Commanders know the structure of the government fire brigade
- Showing skills on request
- Fixing technical problems within a month
- Reporting problems



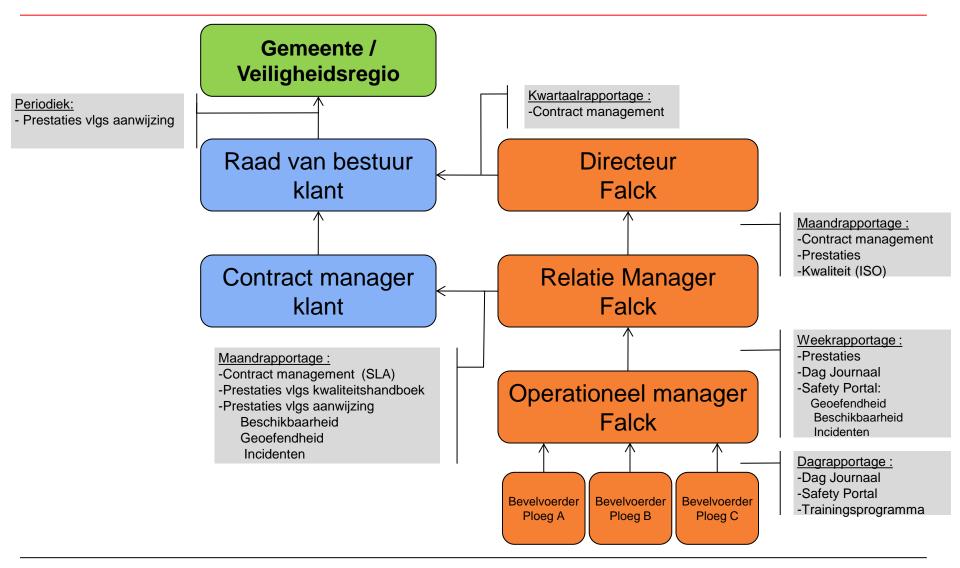
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Falck at Kijfhoek, the structure....





Falck at Kijfhoek, the reporting....





Falck at Kijfhoek, meet the people....







Falck

Always there

