Technical Inspection & Environmental Due Diligence

Quality – Innovation – Future

Fundamentals of Plant Safety

In Europe the operation of plants and process-units, handling hazardous substances, is regulated by different laws, ordinances, norms and universal technical rules.

Purpose of the environmental laws:

- Health and Safety
- Air Pollution Control
- Fire and Explosion Protection
- Water Pollution Control
- Soil Protection
- Noise Control

We are Accredited Experts and Senior Consultants for the protection of humans, water, air and soil by operating plants with pollutants.

Pollutants

Liquids and Solids hazardous to waters

- Combustible Fluids, Gases and Solids
- Explosive Fluids, Gases and Solids
- Contaminated Surface Water and Groundwater
- Gas and Water Emissions
- Brownfields
- Water/Foam from fire fighting

Other Risks

- Pressure or Steam Equipment
- Noise

Main Clients

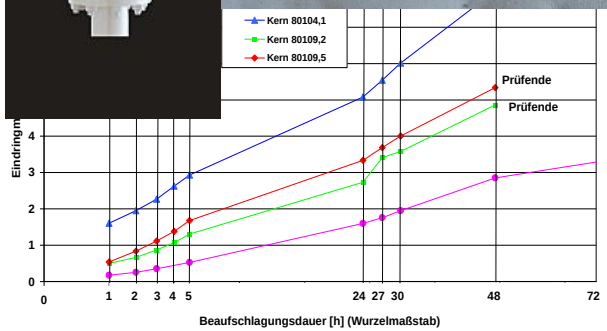
- Chemical Industries
- Refineries
- Steel Works
- Aluminium Plants
- Foundries
- Coke Oven Plants
- Electro-plating Shops
- Tank Farms for pollutant and combustible fluids
- Mines and Mills
- …

Inspection of new plants before commissioning
In-service Inspection of existing plants

- Examination of documentations and permits
- Evidence of conformity for vessels, tanks, pipes, machines and safety installations
- Technical inspection of the execution of the construction work
- Technical inspection of tanks, pipes, retention ponds ...
- Inspection report with advice on how to remedy deficiencies, if necessary

Consulting Services for approval processes and reclamation / remediation concepts

- Risk analysis
- Dimensioning of retention ponds
- Evidence of the liquid tightness of sealing surfaces and retention ponds
- Concepts for repair of retention ponds
- Assessment of plant-engineering and expertise for approval processes



Official Expertise for Damaging Events

- Chronological sequence of the accident
- Root cause analyses
- Determination of damage
- Reclamation concepts
- Monitoring of the reclamation / remediation
- Arrangements for prevention

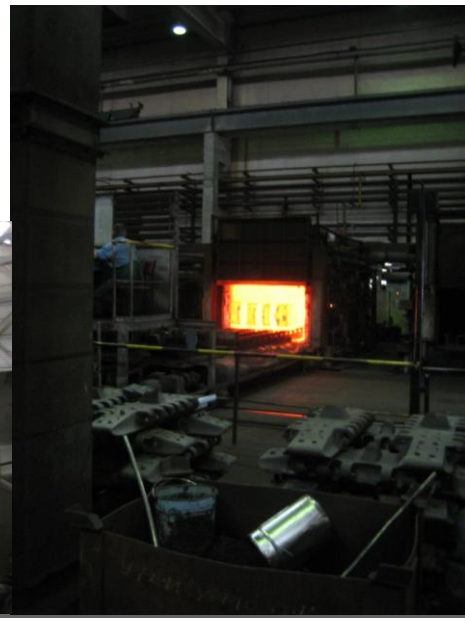
Environmental Due Diligence

Compliance check of production plants and infrastructure according to national permits and regulations:

- General Plant Safety
- Air Pollution Control
- Pressure Equipment Directive
- Fire and Explosion Protection
- Water Pollution Control
- Soil Protection
- Wastewater treatment / Sewer Systems
- Noise Control
- Health & Safety …

Environmental Due Diligence

- Technical Inspection of the Civil Work
- Technical inspection of the Production Plants and Storage Plants
- Investigation of hazardous substances in land and buildings
- Inspection report with advice on how to remedy deficiencies, if necessary
- Risk Analyses
- Estimate of Costs



Technical Inspection

Assessment of plants and process technology:

- Technical inspection of machines, process and storage plants
- Inspection of Civil Work / Infrastructure / Maintenance
- Compliance Check
- Process Bottleneck Analyses
- Recommendations according to plant and process optimizations
- Cost Estimate

Contact:

Dipl.-Ing. Hans Rennings
Accredited Expert under the German Federal Act of Water Protection
Senior Consultant Technical Inspection & Environmental Due Diligence

DMT GmbH & Co. KG
Am Technologiepark 1
45307 Essen, Germany
Phone: +49 201 172-1243
Fax: +49 201 172-1575
bs@dmt.de

Member of TÜV NORD Group