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- Established 2001
- A young organization with experienced staff and consultants
- Active in specialized HSEQ services for the Industry and Public Sector

- **QA System Development & Implementation**
- **Safety & Risk Analyses**
- **Environmental Impact Studies**
- **Asset management**
- **Operational Project Support**

- QA System Development (ISO 9001, 14001)
- QA System upgrades & Flow Scheme Procedures
- Interactive QA Manuals on Intranet
- QA Auditing
- QA Certification Liaison
- QA Implementation (Electronic Meetings)

# QA Reference Projects

- NEVESBU  
The Hague
  - VandenBorre  
Oevel (B)
  - DMN/Gesra  
Noordwijkerhout/  
Germany
  - AllSeas
- QA System & Procedures  
Implementation & Audits  
ATEX QA System Audit  
Hydrogen Generator Systems  
ATEX NEN-EN 13980 QA  
QA System development &  
implementation  
Change Management

- Management & Coordination
- Technical descriptions of alternatives
- Environmental impact assessment
- Quantitative Risk Analyses
- Supporting studies

# Environmental Impact Projects

- Contribution to the Environmental Impact Study Exploration of gas in the Q4 block of the Dutch Continental Shelf for Clyde Petroleum (KCI)
- Discharge of oil based mixtures from offshore mining installations for the Ministry of Economic affairs (Protech/Grontmij)
- Two phase flow F3 pipeline through the Dutch Waddenzee for NAM (Protech/Grontmij)

- Sound report extension gas terminal den Helder for Conoco
- Sound and vibration report gas production platform Wintershall
- Vibration and sound report Horizon platform Chevron
- CO<sub>2</sub>/N<sub>2</sub>/CH<sub>4</sub> dispersion analysis Horizon platform Chevron

# **ORBITAL** Safety & Risk Analyses

*HSEQ Consultants*

- Quantitative Risk Assessments
- Safety case support
- Collision analyses
- Explosion analyses
- Assessment and design occupied buildings
- Reliability Centered Maintenance systems
- Risk Based Inspection plans
- Rehabilitation studies
- ATEX 95 Assessments
- ATEX 137 Assessments

# Safety & Risk Reference Projects

- Gas dispersion, explosion and structural impact analysis Q4-C gas production platform & valve cellar Wintershall
- Structural explosion impact analyses gas production platforms K15-FA-1 & AWG-1 NAM
- Explosion analysis Horizon Chevron platform
- Gas dispersion and explosion analysis production platform P15C BPNE Taqa
- Gas dispersion and explosion analysis oil production MOPUStor platform Talisman

# Safety & Risk Reference Projects

- Gas dispersion and explosion analysis Grove platform
- Explosion and impact review Dutch offshore mining installations NAM
- Gas explosion/structural impact analysis B13 platform  
Chevron
- Gas explosion/structural impact analysis FA F3 platform  
Venture
- Passive Fire Protection specification MOPUStor platform

# Safety & Risk Reference Projects

- HSE Plan offshore windmill transformer platform HBG
- HSE plan ENECO sub station
- Ship impact analysis Neptunus platform NAM
- Ship impact analysis Horizon & B13 platforms Chevron
- Offshore pipeline risk assessment GDF
- Natural burial analysis submarine pipeline GDF
- Natural backfill analysis submarine pipeline CIRRUS
- Offshore pipeline risk assessment Wintershall

# Safety & Risk Reference Projects

- Air gap analysis fixed platform Wintershall
- Risk assessment MPP jack up platform relocation Clyde Petroleum
- Assessment & design last proof control buildings BASF, Shell and BP
- Risk Register update Province of Zeeland
- Inherent safety/safety technology IPO projects
- RELEVANT knowledge table Technology

- Probabilistic Corrosion Analyses Flowlines NAM
- RBI/RCM Offshore Platforms NAM
- Site Inspection BP Refinery
- RCM program Elf Petroland
- Feasibility study implementation RBI TRN
- RBI inspection plan BP onshore gas facilities
- RBI/RCM Q4-C Platform Wintershall
- ASTM maintenance plan Chevron

# ATEX 95 Projects

- Pre-assessment Vandendorre Hydrogen Systems, Oevel Belgium
- Pre-assessment Caterpillar Geveke NL
- Pre-assessment DMN/Gesra NL/GER
- Pre-assessment van der Wijst

- SABIC – Europe Chemelot site Netherlands inclusive HSE system review and update
- SABIC HDPEF Dowtherm ATEX assessment
- DSM Chemelot site Netherlands
- LVM Chemelot site Netherlands
- GEAM Bergen op Zoom Netherlands
- Glaverbel Tiel Netherlands glass factory
- NUON Buchenum coal gasification plant

- ATEX Expert training courses for SABIC, DSM & LVM
- NAM Assen ATEX training

# Operational Project Support

- Project management
- Construction management
- Contract management
- Procurement
- Planning & cost control
- HSE
- QA

# Operational Support References

- Project manager Neptunus offshore substructures NAM
- Project manager Q1-B field development Clyde Petroleum
- Project manager den Helder water treatment plant Conoco
- Construction manager Gaz de France
- Project engineer KEMA automation project
- AllSeas Engineering/Change Manager