



Eur Ing **Doug S. Scott**
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CHARTERED ENGINEER/SCIENTIST
RISK ENGINEERING CONSULTANT

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Qualifications

Bachelor of Technology in Chemical Engineering with management Economics
 Chartered Engineer, Chartered Scientist
 Professional Engineer Registered with Engineering Council (UK)
 European Engineer
 Fellow, Institution of Chemical Engineers
 Member, Energy Institute
 Member of the Oil, Petrochemical and Energy Risk Association
 Member of the Institution of Chemical Engineers' Loss Prevention Panel
 Registered with the Institution of Chemical Engineers as a safety & loss prevention specialist

Experience

Abu Dhabi, Afghanistan, Albania, Algeria, Argentina, Australia, Bahrain, Bangladesh, Belgium, Brazil, Burma, Cameroon, Canada, Chad, Czech Republic, Costa Rica, Denmark, Dubai, Eire, Egypt, Finland, France, Gaza, Germany, Greece, Holland, Hong Kong, Indonesia, Iran, Iraq, Israel, Italy, Kenya, Korea, Libya, Macedonia, Malaysia, Mexico, Mozambique, New Zealand, Nigeria, Norway, Pakistan, Peru, Philippines, Portugal, Qatar, Russia, Saudi Arabia, South Africa, Spain, Syria, Taiwan, Thailand, Trinidad, Turkey, Turkmenistan, United Kingdom, United States, Venezuela, Yemen, Zimbabwe

Career Synopsis

2002 – Date	CHARLES TAYLOR PLC – Risk Engineering Consultant
2000 - 2002	ENTEC – Technical Director
1991 - 2000	JOHNSON & HIGGINS (LATER MARSH) – Vice President
1986 - 1991	AMERICAN INTERNATIONAL UNDERWRITERS– Oil & Gas Engineer
1982 - 1986	BRITOIL PLC – Loss Control Engineer
1977 – 1982	WS ATKINS & PARTNERS – Group Engineer
1975 – 1977	IMPERIAL CHEMICAL INDUSTRIES

Charles Taylor Adjusting Limited

88 Leadenhall Street
 London
 EC3A 3BA

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Claims

- Refinery cooling tower fire
- Ethylene cracker cold box
- Polymer reactor failure
- Subsea wellhead system failure
- Pipeline pumping station fire
- Pipeline rupture and pollution
- Gas turbine failures
- Terminal crane failure
- Material testing Professional Indemnity case
- Steam turbine damage in transit
- Fuel explosion and fire with multiple fatalities in Nigeria
- Power station control system failure
- Mobile phone company diesel generator failures

Engineering Consultancy Projects

- Major hazard assessment for North Sea oil terminal
- Detailed Hazard assessment for major North Sea Oil Platform
- Conceptual design of fire and gas protection systems for a North Sea gas platform
- Review of pressure relief systems for a major UK chemical complex
- Review of pressure relief systems for a North Sea offshore complex and associated onshore terminal
- Review, for regulatory purposes, of chlor-alkali production facility in Hong Kong
- Cost estimation of refinery revamp projects
- Reliability analysis of offshore gas production complex
- Development of computer models for two phase pressure relief, fluid flow and thermal radiation
- Gas plume calculations for offshore platforms to determine safe approach routes for helicopters.
- Conceptual design of world scale polyethylene production plants

Major Studies

- Loss Estimation studies for LNG construction projects
- Major study of exposures and Loss Estimation for a pipeline utility company
- Benchmarking study for Major European Power Utility
- Loss Estimation study, including Delay In Start Up for deep water oil project
- Loss Estimation study for US oil and gas production company
- Loss Estimation study for South East Asian gas pipeline network
- Detailed Hazard assessment for major North Sea Oil Platform
- Loss Estimation study of the assets of a major North Sea oil company
- Development of risk ranking methodology for: oil, gas & petrochemicals, power stations, construction, general property, mining and hospital construction/operation
- Study of pipeline reliability in a confidential Latin American country
- Risk studies of multi-billion sour gas production facility in the Middle East

Risk Surveys

Offshore

- Platform and FSO (Floating Storage Unit), offshore Italy
- Gas production complex offshore Thailand
- Offshore platform Alaska, USA
- Series of offshore platform complexes Mexico
- Offshore complexes Nigeria
- Offshore platform and onshore terminal Brazil
- Offshore gas platform, South Africa
- Offshore gas platform Qatar
- Offshore oil production fields in the UAE
- Offshore wellhead platform in New Zealand
- Offshore complex in Greece

Onshore Oil & Gas Production

- Onshore production facilities Bahrain
- Onshore production facilities Siberia
- Enhanced oil recover facilities Siberia
- Onshore production facilities in Mexico
- Onshore production Alaska, USA
- Desert production facilities Yemen
- Oil production facilities Turkmenistan
- Gas producing fields in Pakistan
- Oil and Gas production in Egypt
- Onshore oil production in Nigeria
- Drilling rig surveys in Egypt
- Onshore production/processing facility in Greece

Pipelines

- Crude oil production pipeline, Yemen
- Crude oil production pipeline Greece/Macedonia
- Trans Andes crude oil pipeline
- Refined oil pipeline Mozambique – Zimbabwe
- Refined oil multiproduct pipelines Costa Rica
- Refined oil products Pakistan
- Gas transmission lines, including control room and associated facilities, Greece
- Gas transmission lines, including control room and associated facilities, Thailand
- Intelligent pigging facility in Russia
- Aviation fuel pipeline in Greece

LNG (Liquefied natural Gas)

- Liquefaction plant, Malaysia
- Liquefaction plants Indonesia
- Liquefaction plant, Australia
- Liquefaction plants, Algeria
- Liquefaction plant, Libya
- Liquefaction plant, Yemen
- Peak shaving plant Canada
- Terminal, Greece
- Terminal, Belgium
- Terminal, Taiwan

Gas Processing

- Gas processing facilities Dubai
- Gas processing facilities in Algeria
- Gas processing plant in Bahrain
- Gas processing facilities in Mexico
- Gas processing storage and shipping in Nigeria
- Gas processing, including some novel technologies in Pakistan
- Gas processing in Qatar
- Gas processing and gas to liquids processing in South Africa
- Gas Processing plant in New Zealand

Refining:

- Main refineries in Algeria
- Major refinery in Kenya
- Main refineries , plus smaller privately owned refineries in Argentina
- Privately owned refinery in Belgium
- Remote stand alone refinery in Burma
- National oil company refinery in Costa Rica
- State owned refinery in Denmark
- State oil company refineries in Finland
- Privately owned refinery in Germany
- Major refinery complexes in Greece
- Major state owned refineries in Indonesia
- Major lubes and fuels refinery complex in Iraq
- Major contract refinery sites in Italy
- Refinery complexes in Israel
- State owned refineries in Libya
- Major refinery complexes in Saudi Arabia
- Major refinery in South Africa
- Refinery complexes in Thailand
- Refineries in USA
- Major refinery in Peru
- Refinery complexes in Pakistan
- State and privately owned refineries in Taiwan
- State owned oil refineries in Venezuela
- Refinery in the Cameroons
- Refinery in Chad
- Refinery in Yemen

Petrochemicals

- Petrochemical, methanol and ammonia/urea production in Algeria
- Ethylene production in Australia
- Methanol and ammonia production in Bahrain
- Petrochemicals and downstream polymers/speciality chemicals in Brazil
- Ammonia/Urea in Eire
- Methanol and speciality chemical plants in Malaysia
- Polypropylene production in Greece
- Ethylene cracker in Israel
- Speciality organic chemicals
- Pure Teraphalic Acid in Indonesia
- Ethylene cracker and downstream complex in Italy
- Ethylene and downstream process facilities in Korea
- Ethylene cracker and downstream processing units in Nigeria
- Ethylene production and downstream units in Norway
- Ethylene production and downstream units in Finland
- Polymer production in South Africa
- Ammonia/urea, ethylene in Qatar
- Petrochemicals production in the UAE
- Private and state owned ethylene and downstream facilities in Taiwan
- Methanol production in Trinidad
- Ammonia Urea production in Pakistan
- PTA plant in Pakistan
- PVC production in the UK
- Ethylene and specialist organic chemicals in the USA
- Methanol and MTBE production In Venezuela
- Speciality organic chemicals in Holland
- Speciality organic chemicals in France
- Aromatic chemical complex in Portugal

Terminals

- Refined product terminal in Albania
- Main state oil marketing liquid and LPG terminals in Algeria (including aviation fuels)
- Liquid fuel terminals in Costa Rica (including aviation fuels)
- Crude oil export terminal in Denmark
- Crude oil import terminal in Greece
- Refined product marketing terminals in Kenya
- Product terminal in South Africa
- Liquid LPG product terminals in Thailand
- Liquid LPG product terminals in Philippines
- Refrigerated LPG terminal in Mexico
- Fuel and chemical import terminal in Taiwan
- Fuels terminal in Thailand
- Chemicals terminal in Pakistan
- Major terminal in the Caribbean, following a major fire.
- Marketing terminal and storage facilities in Italy
- Storage terminal in UK
- Hydrocarbon Liquids terminal in New Zealand
- Liquid fuel and LPG bottling terminals in the UAE

Power Plants

- Surveys of fosse fuel and bio-fuels power stations in Denmark
- Gas turbine power plants in Thailand
- Power (and desalination plants), Bahrain
- Industrial power plants. Taiwan
- Large scale survey programme of power and desalination plants in Saudi Arabia
- Combined cycle power plant in Gaza
- Combined cycle and fossil fuel power and desalination facilities in Abu Dhabi
- Power plant in Pakistan

Fertilizers

- Various Ammonia and urea plants in Pakistan
- Ammonia and urea production plants in Norway, including novel process technology
- Ammonia production in Bahrain
- Ammonia and urea production in Qatar
- Fertilizer production in South America, with a focus on liability exposures
- Fertilizer production in UAE
- Fertilizer production (including ammonium nitrate) in Greece
- Fertilizer production in Bangladesh
- Ammonia production in Ireland
- Ammonia production in Korea

Construction

- Power station and power transmission system in Afghanistan
- Refinery construction project in Algeria

- Large scale multi-stream gas processing plants in Iran
- Simple and combined cycle gas turbine power plants in Iran
- Large scale refinery, petrochemical, power and electronics production facilities Taiwan
- Power plant construction (fossil fuel and gas turbine) in Thailand
- Gas processing plant in Syria
- Gas processing plant and pipeline in Iraq
- Gas processing plant in Algeria
- Sour gas processing plant in UAE
- Steel plant in Pakistan

Other

- Textile plant in Greece
- Large integrated steel mill in Libya
- Hot iron briquette plant in Malaysia
- Carbon disulphide production in Taiwan
- Aluminium rolling mill in Turkey
- Metallurgical and steel production in Taiwan
- Textile production in Libya
- Cement production in Nigeria
- Industrial explosives in South Africa
- Metallurgical production in Norway
- Chemical, textile and cement plants in Pakistan

TECHNICAL PUBLICATIONS

1. Some Seldom Considered Aspects of Pressure Relief Systems, I. Chem E. Symposium, Sheffield, c 1980
2. The HAZOP Man Comes to Call - Case Histories of Pressure Relief Systems (joint author), I. Chem E. Hazard and Risk Assessment for Existing Chemical Plant, London April 1980
3. The Design and Operation of Offshore Relief Systems (joint author), I. Chem E. Symposium on the Protection of Exothermic Reactors and Pressurised Storage Vessels, Chester April 1984
4. Wither Surveying (joint author), Winner IOI Best Paper Award, c 1990
5. Assessment of Low Probability/High Consequence Risks with Emphasis on Management Systems (joint author), 7th International on Loss Prevention and Safety Promotion in the Process Industries, Taormina (Italy), May 1992
6. The Development of Safety Teaching in UK Chemical Engineer Colleges (joint author), 7th International on Loss Prevention and Safety Promotion in the Process Industries, Taormina (Italy), May 1992
7. Process Plant Design and Operation – Guidance to Safe Practice (editor and major contributor), I. Chem E, 1992 (reprinted in 1994)
8. DACALS – A Simple Verified VCE Model (joint author), 8th International on Loss Prevention and Safety Promotion in the Process Industries, Antwerp (Belgium), June 1995
9. Safety Cases – A View From the Insurance Industry, Safety Cases – Can We Prove the Next Ten Year Will Be Safer Than the Last Ten? IBC Conference, London, 1995
10. Consequence Modelling for the Insurance Industry – New Philosophies and Methods (joint author), International Conference and Workshop on Risk Analysis and Process Safety, Atlanta (USA), 1997
11. The Insurance of Process Plant, Loss Prevention Bulletin No. 140, April 1998
12. The Train of Events - Stay in the Station! I. Chem E. virtual conference, 2000
13. Pipeline Leakage and Pollution Liability (joint author), International Conference in Algiers, 2002
14. Reducing Costs Through Risk Engineering – First Middle East Congress on Managing Safety in the Workplace, Dubai (UAE), 2003
15. Pipeline Insurance Technical aspects of Underwriting and Claims, (joint author) GEOPIPE – International Conference on Terrain and Geohazard Challenges Facing Onshore Oil and Gas Pipelines, ICE, London 2004
16. Colour Coded Risk Management, Strategic Risk, September 2007
17. Seeing the Wood For the Trees, The Chemical Engineer, April 2008
18. The Importance of Insurance, World Pipelines November 2010
19. Construction, Communication and Confusion, Loss Prevention Bulletin NO. 223, February 2012