



GIOVANNI UGUCCIONI

HSE Technical Manager

EDUCATION

University Degree, Nuclear Engineering, University of Bologna

Specialist Courses on Safety and Reliability Techniques (See "Experience and Background")

REGISTRATION

Professional Engineer, Italy (Chartered Engineer registered with n. 639 to the Provincial Charter of Pesaro-Urbino)

Registered as qualified fire protection specialist – Italian Ministry of Interiors (Law 7/12/1984 n.818)

AFFILIATIONS

Member of the Editorial Board of the European Safety and Reliability Association (ESRA) Newsletter

LANGUAGES

Italian, English

EXPERIENCE AND BACKGROUND

Mr Ugucconi graduated, upon completion of his studies at the University of Bologna (Italy), with a thesis on the dynamic structural analysis of the PEC (Italian fast breeder reactor) core and experimental validation of the computer model.

Following his graduation, Mr Ugucconi was awarded a grant at the Italian National Nuclear Committee (CNEN) laboratories in Bologna to continue the activities on the seismic analysis of the PEC reactor.

In 1981 he joined Snamprogetti S.p.A., Engineering and Main Contracting Company of the ENI Group (National Hydrocarbon Agency) of Italy, as Project Safety Leader in the Offshore Division, working on a wide variety of projects related to offshore platforms and submarine pipelines.

During this period, Mr Ugucconi participated also in the development of models for the Safety and Reliability analysis, in particular in the development of models for consequence analysis (fire, explosion and dispersion), for the Monte Carlo simulation for the assessment of the availability of offshore oil fields, for the propagation of uncertainties in Fault Tree analysis.

He also participated as coordinator in the FIREXP Project, aimed at the experimental validation of pool fire simulation model.

Between 1982 and 1986 Mr Ugucconi attended specialist courses on Petroleum Engineering (ENI, Milano 1982), Reliability and Risk management techniques for the offshore industries (London, 1983), Applied Fault Tree Analysis (NCSR, Culcheth, 1983), Advanced Reliability Techniques and Application (ESRA, Ispra, 1985), Accelerated life testing and experts' opinions in reliability (International School of Physics E. Fermi, Lerici, 1986).

From 1986 was appointed Project Safety and Reliability Manager for onshore production plants and pipelines projects. Together with this role, he continued his activities in research and development of models.

In 1988 he was appointed Technical Manager of the ARIPAR Project, aimed to develop a methodology for the risk assessment of Industrial Areas and to apply it to the assessment of risk of the Industrial and harbor area of Ravenna (Italy). The Project included the analysis of industrial plants, road and rail transportation systems, pipelines and harbor activities and produced the prototype of the computer model that is presently used in Italy and Europe for the assessment of Industrial Area Risk Management.

In 1990 he was appointed Project Manager for a project aimed to develop a risk analysis model and associated computer program for the safety assessment of pipelines. The model that was developed

included a GIS interface, a module for the frequency and consequence analysis, a structural reliability model for the assessment of the pipeline safety against impacts.

In 1990 he was appointed Coordinator of the safety and reliability analysis activities within the Safety and Reliability Unit of Snamprogetti. In this role he supervised the activities performed by the Safety and Reliability Teams for all the Snamprogetti Projects.

In 1995 he was appointed manager of the Safety and Reliability Unit of the HSE Department in Snamprogetti; in this role he supervised the activities of the HSE Managers appointed on Projects and was personally involved as HSE Manager in Projects relevant for their dimensions or criticality (e.g. the Risk Assessment of the Livorno industrial area in Italy). He was also appointed as project Manager of an EU funded research project that led to the development and the experimental validation of an innovative Leak Detection system (DEPIRE).

During this latter period Mr Uguccioni attended courses on Project Management methodologies, Team leadership, Economics at the ENI management school.

In 2002 Mr Uguccioni joined D'Appolonia (now Rina Consulting) as Manager of the Milano branch of the company and of the HSE Division activities (QRA, RAM analyses, Loss Prevention etc).

In his role of HSE Division Manager he managed and supervised projects for major engineering and Operating companies, including Saipem, Snamprogetti, Polimeri Europa, Foster Wheeler, Tecnimont, British Gas Italy, Kellogg, Shell, including HAZID, ENVID, HAZOP and SIL Chairmanship (see details) and being responsible for development of Safety Reports for major hazards installations (Seveso Directive) in Italy.

In 2011, has been appointed Manager of the Oil & Gas Business Line of D'Appolonia, in charge of the development of the D'Appolonia activities related to the Oil&Gas sector.

In 2012 was appointed HSE Technical Manager. At present he is HS Development Manager. In these roles he cooperates in the development of the HSE activities for the O&G business in D'Appolonia and provides technical support and supervision to the Company HSE activities.

Together with his professional activities, Mr Uguccioni gives lectures on Risk Analysis techniques at the Polytechnic of Milano, at post-graduate courses at the Polytechnic of Milano and at the University of Bologna, and is Registered lecturer at Steinbeis University Berlin for the course on Risk Analysis in Petrochemical Industry.

MAIN REPRESENTATIVE PROJECTS

HAZID/ENVID ANALYSES

Leader for Hazard identification sessions for various Oil & Gas projects, including drilling rig modifications, flowline installation, facilities revamping, subsea installations.

- ✓ Replacement of Okono 2 and 5 flowlines (Eni E&P);
- ✓ Offshore regassification Project (conceptual phase) (Eni E&P);
- ✓ Drilling Removal Operations. Bouri Field DP4 Platform (Saipem);
- ✓ Construction activities (onshore and offshore) of the MEDGAZ submarine pipeline (Snamprogetti);
- ✓ DP3/DP4 Platforms – Bouri Field –Debottlenecking Project (Sicon Oil);
- ✓ CO2 Injection Project (Eni E&P);
- ✓ WDDM field subsea facilities basic and detail design (Intecsea);
- ✓ WDDM Field Phase VIIIb subsea facilities (Saipem);
- ✓ Mellitah Complex upgrading feasibility (Saipem);
- ✓ Saipem CastorOne pipe lying vessel - J-Lay Tower operations (Saipem);
- ✓ Deborah A and B platforms . Hewett Gas Storage FEED (Tecnomare);
- ✓ FDS Field Development Ship Operations (Saipem);
- ✓ Burun Fiend SDPP (Separation and Pumping Plant) FEED (Tecnomare);
- ✓ ORC (Organic Rankine Cycle) Power Plant – Gas compression Station (Tecnomare);
- ✓ Sequoia Offshore field development Project – Operations and Shutdown configuration (Saipem);
- ✓ Offshore Block 15/06 East Hub Development (FPSO, Gas Gathering) – Angola (Eni E&P);

- ✓ Repair activities on subsea pipeline – Dolphin Project (Saipem);
- ✓ Repair activities on Perla-Prezioso subsea pipelines (Saipem);
- ✓ Tar Sands Pilot Project - Congo (Eni E&P);
- ✓ Mozambique Master Plan – Hazid on alternative onshore facilities locations (Eni E&P);
- ✓ Utsira Statoil offshore filed conceptual Project (Saipem);
- ✓ Offshore well drilling OTI1/KARA1 – Togo (Eni E&P);
- ✓ Accommodation Vessel “El Habib” – Tunisia (Serept);
- ✓ Anti-Flooding Tool (AFT) concept Hazid and FMEA Analysis (Saipem);
- ✓ South Stream - Quadruple Joint fabrication onboard Castoro 6 (Saipem);
- ✓ North Stream – Repair system operation (Saipem);
- ✓ Mamba offshore field – Mozambique – Preliminary Installation (Saipem SA).

SAFETY REPORTS ACCORDING TO SEVESO DIRECTIVE

Manager of the development of a Pilot Study and training on Safety Report preparation in the Europaid project “Technical Assistance on Increasing the Implementation Capacity of the Seveso II Directive Project “to support competent authorities in Turkey.

Small Scale LNG regasification Plant in Oristano (Italy)

Supervisor of the activities for the issuing of the Safety Report according to Seveso II Directive for a regasification LNG terminal including road LNG loading facilities.

Regasification and loading LNG Terminal in Monfalcone (Smart Gas)

Supervisor of the activities for the issuing of the Safety Report according to Seveso II Directive for a regasification LNG terminal including road and railway LNG loading facilities.

Val d’Agri DBN2 Plant (Client: Bonatti/Eni)

Supervisor of the activities for the issuing of the Safety Report according to Seveso II Directive for the new DBN 2 Oil treatment plant in the existing COVA Plant in Val d’Agri (Italy).

Palazzo Moroni Underground Gas Storage Safety Report (Client: Edison)

Supervisor of the activities for the issuing of the Safety Report according to Seveso II Directive for an Underground Gas Storage in central Italy.

Milazzo Refinery Safety Report

Supervisor of the activities for the issuing of the Safety Report according to Seveso II Directive for the Milazzo Refinery (41 process Units).

LNG Regasification Terminals (Rosignano, Brindisi, Priolo, Livorno offshore, Adriatic offshore)

Development of the Safety Reports and assistance in the authorization process for various LNG receiving and regasification terminals in Italy both onshore (Rosignano, Brindisi, Priolo) and floating (Adriatic sea) for Edison Gas/BP, British Gas Italy, ERG/Shell Europe, Endesa, GDF SUEZ. For one of these terminals, D’Appolonia has also given support to the engineering contractor for safety and environmental activities during the basic design. D’Appolonia has also performed safety analyses in support to the engineering activities for the offshore floating LNG Terminal proposed for installation offshore Livorno.

New Facilities in Venice Eni R&M Refinery (Client: Saipem).

EST (Eni Slurry Technology) new plant in Sannazzaro Refinery (Client: Saipem).

Romanengo Underground Gas storage and compressor station (Enel).

Palazzo Moroni Underground Gas storage and compressor station (Edison).

Bagnolo Mella Underground Gas storage and compressor station (Edison).

Siracusa Thermodynamic solar power plant (Enel).

Polimeri Europa Petrochemical sites in Marghera and Ravenna (Polimeri Europa).

SIL ASSESSMENTS

SIL (Safety Integrity Level) assessments for Polypropylene, HDPE LLDPE Plants (Tecnimont), Gasification and IGCC Plants (Foster Wheeler Italy), Offshore platform (SEI). One of the analysis was performed following the Shell DEP standard and approved by Shell.

HSE MANAGEMENT

Management of HSE issues for various onshore and offshore Projects.

Audit on process Safety and Asset management System (Val d'Agri Oil Center, Eni, Italy).

HSE AUDITS

Participation as safety Expert to the Independent Environmental Monitoring Group on behalf of IFC for the Ahafo gold mine Project (Newmont) – Ghana 2011-2012.

NIS-PMS Project: Participation to the Auditing team on NIS Plants (Pancevo and Elemir Refineries, Ovca LPG storage) for the assessment of the status of the Process Safety Management System with reference to the CCPS requirements. (NIS, Serbia) – 2016.

Eni Val d'Agri Oil Center (Italy). Lead Auditor for the assessment of the Asset Integrity management System of the plant (Eni, Italy) - 2015.

Abu Qir Petroleum: development of the methodology for the Asset Integrity management System Audit, and performing of the root cause analysis for the main audit findings. (AQP, Egypt) – 2015.

Braskem Idesa Polypropilene Plant – Mexico. Participation as safety Expert to the Independent Environmental Monitoring Group on behalf of IFC - 2016.

RAM ANALYSES

Supervision of RAM assessment studies for LNG Terminals, GTL, Control systems, for various Clients using Montecarlo simulation techniques.

OFFSHORE FACILITIES – MAIN PROJECTS

HSE Management – Power Generation Barge – Kashagan Field

Manager of HSE activities for the Power Generation Barge detailed design (by ABB Process Solutions) for the Kashagan Field. Activities include HAZOP and HAZID Analysis, QRA, SIL Assessment, HSE Reviews.

Safety Case Preparation . Offshore Ashtart Complex

In charge of the activities for the development of the preliminary and final safety case for the offshore Ashtart complex (Tunisia), including assessment of the H2S accidental dispersion.

Safety Assessment of Marine operations at an LNG Jetty

Development of the study to assess the risk increase due to operation of different types of LNG carriers in an existing unloading Terminal.

East Area Platform Project

D'Appolonia has been responsible for the development of HSE activities for the East Area platform Project (Operator. ExxonMobil), including Charing the Hazop study.

West Espoir Field – Well Head Tower Platform

Coordination of the HSE activities for the WHT platform in the West Espoir field (Operator: CNRI). The work has included Chairmanship of the Hazop and HAZID sessions.

Sabratha Platform Project

Responsible for the development of the HSE engineering activities for the development of one of the largest offshore oil platform in the Lybian offshore sector. Engineering activities included fire and blast simulation analysis, design of fire and blast protection, emission control, gas and smoke simulation studies, noise and vibration simulation studies, HAZOP and Quantitative Risk Analysis, CFD dispersion simulation.

Availability Analyses (Intercross floating terminal: Chinquetti FPSO)

Availability analyses by Montecarlo simulation have been performed for LNG plants and Floating Production Units. The analyses have supported the design in optimizing the redundancy and maintenance principles to achieve the required availability targets.

ONSHORE FACILITIES – MAIN PROJECTS

Ammonia-Urea Plant – Qatar

HSE Manager for HSE activities, including Hazop review, SIL assessment, QRA for the revamping of an Ammonia-Urea plant in Qatar.

Industrial Areas assessment

Development of the Priolo Industrial Area Risk Assessment developed on behalf of the Italian Ministry for the Environment.

SuperOctanos Plant Risk Analysis

Management of the QRA developed for the conversion of an existing plant to methanol production (Snamprogetti).

Kashagan Field QRA Peer Review

Participation to the Peer Review of the QRA performed for the Kashagan field.

Hazop, SIL and ALARP Demonstration activities – Trunklines and Flowlines Project - Kazhagan Field

Supervision of HSE activities for the Trunklines and Flowlines project for Saipem.

Safety survey – Ahafo Gold Mine

Member of the Independent Monitoring Assessment Group acting on behalf of the IFC to assess compliance of Ahafo Gold Mine operation wrt IFC rules; in charge of the safety aspects of the operations (Ghana).

ATEX - Explosion Safety of Petrochemical Plants

Supervisor of the activities for the assessment of the explosion safety of petrochemical units (Petrochemical sites of Marghera, Ravenna, Mantova) according to the ATEX Directive.

Blue Stream Compressor Station

Chairman of the task Analysis study to assess the hazards of the operation of substitution of valves while maintaining the pipeline pressurized.

Polimeri Europa Petrochemical Site – Marghera

Development of the Safety report for the petrochemical Site of Porto Marghera, Italy. The site includes cracking and olefins/aromatics plants, a butadiene plant, liquefied gases and atmospheric storage, a jetty. The report has been developed according to the Italian Major Hazard regulations and includes analysis of frequency of accidental scenarios, consequence analysis, analysis of domino effect.

Priolo-Augusta-Melilli Industrial Area

Support to Snamprogetti in the development of the risk assessment for the industrial area of Priolo-Augusta-Melilli. The analysis included 10 industrial plants (Refineries, storage, petrochemical, gasification), road, rail and pipeline transport, ship loading/unloading and has given the individual risk contours and the societal risk for the area.

BEFORE JOINING D'APPOLONIA, Mr Uguccioni has directly performed and co-ordinated the activities for the developing of Safety Reports for Italian authorities; management of HSE activities and support to design (QRA, HSE reviews, HAZOP etc.), reliability and Availability analyses for various plants including:

- ✓ Refineries;
- ✓ Petrochemical Plants (Urea, Ammonium Nitrate, Ethylene);
- ✓ Oil Storage plants;
- ✓ Offshore Pipelines (Gas pipelines, Oil pipelines);
- ✓ Onshore Pipelines (Ethylene, Ammonia, Propylene, Gas, Oil);
- ✓ Offshore production platforms;
- ✓ Transport of hazardous substances by road;
- ✓ Marine terminals (Jetties, Single Point Mooring);
- ✓ Subsea installations (well testing systems, Subsea Booster System prototype).

Among the various projects, the following are listed for their particular relevance.

ARIPAL Project (Major Hazards in the Industrial and harbor area of Livorno, Italy)

The Project was aimed at assessing the overall risk (plants and transportation systems) of the Livorno industrial area on behalf of the CNR, Italian National Research Council. The results have allowed to identify some modifications in the infrastructures to reduce the risk to population.

DEPIRE Project - Early detection of pipeline releases

The Project, sponsored by the European Union (Environment Projects) was aimed at identifying techniques for the early detection of leaks in pipelines. The activities allowed to identify in the Neural network technique coupled with field process data a promising technique to ensure a fast and reliable detection of small leaks. The technique was also tested on a small scale experimental rig confirming the theoretical predictions.

Underground Fuel Storage and Pipeline

Development of Reliability, Safety and Environmental Management activities, including QRA, EMC, Project Safety reviews.

Offshore Platforms and Onshore Plants

Safety activities during the design of offshore production platforms (Bonaccia, Kitina, BEAF) and Oil treating plants for International oil Companies (Total; Agip).

SGS Project

The Project was aimed at developing a Safety Management System for Natural Gas Underground Pipelines based on integration of Geographical Information System and Reliability analysis modules. The system allows to assess the risk on various sections of the pipeline on the basis of population data (from satellite images), human activities data, structural reliability modules, process information etc.

SAS Underwater Pipeline Repair System

Reliability and Logistic Support Analysis for the deep water automatic repair system developed by Snam.

ZEEPIPE Project

Development of the Risk analysis Report for Operating Permit for the Statoil Zeepipe gas receiving terminal at Zeebrugge. Safety analysis of the Zeepipe offshore pipeline.

ARIPAR Project

Development of a model for the assessment of risk in Industrial areas (Plants, Transport, Harbour) and application to a major industrial site in Italy, on behalf of the Department of Civil Protection and Regione Emilia-Romagna (Italy). The Project included plants, road, rail, pipeline transport and harbor activities.

Milano Coal District Heating Plant

The activities in support to the design involved hazard analysis and Environmental Impact Assessment for a coal district heating plant, including Analysis of air and water pollution, socio-economic impact, solid wastes disposal identification of accident and consequences quantification.

Alkylation Unit

The Unit, to be built at the DKV Refinery in Szazhalombatta (Hungary) with World Bank financing, was subject to a complete QRA according to the World Bank specifications. It was one of the first applications of the WB rules requiring a Risk Assessment to be done for financed Projects.

DP3 and DP4 Platforms - Bouri Field

The Project included QRA, HAZOP analysis, safety studies, safety reviews during the design of two major drilling and production platforms in the Mediterranean Sea.

FIREXP Project

Project aimed at validating models for the prediction of pool fire characteristics. The experiments were conducted in a test field with pool sizes up to 9 m diameter and analyzing the data collected with radiometers specifically designed and built for the application and by video recording. The results allowed to validate the predictions of the pool fire simulation models adopted in the consequence analysis of petrochemical plants.

PUBLICATIONS

Uguccioni, G., P. Gauvain, A. Martelli and E. Taddia, 1981, "Analisi Sismica Non Lineare del Nocciolo dei Reattori Nucleari Veloci", IX AIAS Meeting, Trieste.

Uguccioni, G., P. Cecchini, A. Martelli, G. Severi and M. Vincenzi, 1981, "Dynamic Equivalence between the Elements of the Pec Fast Reactor Core and the Corresponding Models for Seismic Tests", Report CNEC RT/ING/81-18.

Uguccioni, G. and M. Marchi, 1983, "Analisi di Sicurezza di Condotte Sottomarine", Esperienze del Gruppo ENI di Analisi e Studio degli Impianti Industriali ai Fini Economici e di Sicurezza, Milano.

Uguccioni, G., M. Marchi, L. Colombo and G. Chiesa, 1984, "Reliability/ Availability of the Fire Fighting Systems of Offshore Platforms", Safety Techniques and Application Symposium, Rijad.

Uguccioni, G., 1984, "Risk Assessment of Offshore Pipeline Systems", Italian Association of Risk and Reliability Analysis, 3ASI Annual Seminar, Como.

Uguccioni, G., 1984, "Experimental Tests on Fire Fighting System for Offshore Platforms", EUREDATA Seminar on AFGDS Reliability, Ispra.

- Uguccioni, G. and S. Messina, 1986, "Experimental Tests on Large Hydrocarbon Fires: Results and Comparison with Existing Fire Models", 5th International Symposium on Loss Prevention and Safety Promotion in the Process Industries, Cannes.
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- Uguccioni, G. and N. Donno, 1992, "Design of Maintenance Requirements during Design Phase - Optimisation of Logistic Support for an Automatic Submarine System", Euromaintenance 92, Lisbon.
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- M. Pontiggia, V. Busini, M. Gattuso, G. Uguccioni, R. Rota "Consequences Assessment of an Accidental Toxic Gas Release Through a CFD Tool: Effect of The Terrain and Major Obstacles", CISAP5 - 5th International Conference on Safety & Environment in Process Industry, Milano, June 2012.
- S. Benucci, M. Pontiggia, G. Uguccioni "Explosion Load Calculation for Building Design: Risk-Based Versus Consequence-Based Approach", CISAP5 - 5th International Conference on Safety & Environment in Process Industry, Milano, June 2012.
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