



## ERS Team Experience – Example Risk Engineering and Loss Adjusting Projects – Oil, Gas, Petrochemical

Region	Role	Insurance	Project/Technology	Features/Issues
N. America	Risk Engineering/ Project Monitoring	Construction All Risks	LNG Import, Gasification, Storage & Transmission Plant Expansion	Expansion of reactivated plant after 19 years in preservation, including new berth, new tanks & enlarged gasification capacity. SIMOPS management & delineation of operational areas.
N. America	Risk Engineering/ Project Monitoring	Construction All Risks/Delay in Start Up	LNG Import, Gasification, Storage & Transmission Plant Expansion	Expansion of reactivated plant several years' shutdown, including new berth, new tank & enlarged gasification capacity. SIMOPS management & delineation of operational areas.
N. America	Risk Engineering/ Project Monitoring	Construction All Risks	LNG Import, Gasification, Storage & Transmission Plant Reactivation & Expansion	Restoration of plant to original designed purpose after 20 years' operation as a peak-shaving facility. New LNG Tanks, upgrades to facility & control/safety/security improvements.



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Middle East	Loss Investigation/ Adjusting	Construction/Erection All Risks	LNG Liquefaction & Storage	Collapse of LNG tank roof during air-raise operation.
N. America	Risk Engineering/ Project Monitoring	Builder's Risk	New LNG Import, Gasification, Storage & Transmission Plant	Tight scope of coverage including offsite construction area Site topography/geology requiring construction on multiple levels & rock blasting for some foundations. Delineation of areas controlled by different contractors.
N. America	Risk Engineering/ Project Monitoring	Erection All Risks & Delay in Start Up	New LNG Import, Gasification, Storage & Transmission Plant.	Enhanced precautions for potential windstorm exposure. Novel use of existing technology for vaporization. Seasonal limits on some excavation activities.



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Central Asia	Risk Engineering/ Project Monitoring	Erection All Risks	Upstream Oil & Gas Processing, Storage & Export Facility	Large-scale project with considerable logistical & technical challenges. Extended construction period with early delivery of materials & equipment & extensive storage & preservation requirements. Complex contract structure with multiple contracts
Central Asia	Risk Engineering/ Project Monitoring	Erection All Risks & Damage to Existing Property	Upstream Oil & Gas-Gathering, Processing & Storage Facility	Large-scale project with considerable logistical & technical challenges. Multiple work sites, storage & fabrication locations, & large multinational work force.
Asia	Risk Engineering/ Project Monitoring	Construction All Risks and Third Party Liability	Upstream Oil & Gas-Gathering, Processing & Storage Facility	Two major sites with further smaller work locations & intra-field pipelines. Flood protection works. Major efforts to bring work practices up to international standard. Aggressive construction schedule.



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N. America	Risk Engineering/ Project Monitoring	Construction All Risks/ Delay in Start Up	Oil Sands Extraction & Synthetic Crude production Facility Construction	Multiple fabrication locations Remote site location Multiple construction contracts.
Middle East	Risk Engineering/ Project Monitoring	Erection All Risks, Advanced Loss of Profit and Third Party Liability	Oil Refinery Enhancements – construction of additional units.	Small unit footprints. Construction of new units in operational refinery – SIMOPS.
North Africa	Risk Engineering	Construction All Risks	Oil and Gas Gathering, Storage & Processing	Remote desert location. Aggressive Schedule
Europe	Risk Engineering/ Project Monitoring	Erection All Risks	Gas Pipeline Terminal	Modular construction. Winter weather conditions.



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E Europe	Risk Engineering	Construction All Risk, Damage to Existing Property, Third Party Liability	Oil and Gas Storage & Trans-shipment Terminal	Delayed/Long Construction Period. Restoration/Preservation of Equipment.
N America	Risk Engineering	Erection All Risks Reinsurance	Nitric Acid & Urea Ammonium Nitrate Plant	Refurbishment programme for used equipment.
North Africa	Risk Engineering	Erection All Risks and Third Party Liability Reinsurance	LNG Liquefaction Facility	Coordination of multiple contractors. Control of early start-up areas. Delayed completion.
North Africa	Risk Engineering	Erection All Risks and Third Party Liability Reinsurance	LPG Production/Storage/Transmission Facility	Multiple delays for technical & security reasons. High turnover of management personnel. Phased start up of 3 trains.
North Africa	Risk Engineering	Erection All Risks Reinsurance	Nitric Acid & Ammonium Nitrate Plant	Control & development of local subcontractors.



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N. America	Risk Engineering	Construction All Risks/Delay in Start Up	Construction of plant producing ammonia, ammonium nitrate & UAN	Barge transport of major equipment. Aggressive schedule