



**Functional Safety & Engineering S.C.
2010-2020**

Head Office Address:

Torre Exertia
Piso II Oficina 8
Adolfo Ruiz Cortines y Barco Viejo #4750
Col. Predio y Collado, La Boticaria
CP. 94298
Boca del Río, Ver.

Contact Information:

jfgarcia@fusaengineering.com.mx
Tel: 01229-1300920
Website: <http://www.fusaengineering.com.mx>

I thank you for your attention; we look forward to serving you.

FUSA S.C.

ING. JEAN FRANCOIS GARCÍA
Director
Functional Safety & Engineering

www.fusaengineering.com.mx

Summary of Professional Experience:

San Fernando, Tamp. 2019	Company: EXTERRAN Project: Update of the risk analysis of the gas collection station module Nejo 502 (Nejo 5), adding 3 compression units and a fuel gas separation pad, using HazOp methodology.
Cosoleacaque, Ver. 2019	Company: DUMEZ COPISA Project: Preparation and / or updating of the comprehensive risk analysis studies of the ALPEK Polyester Cosoleacaque Plant Oxidation Plant.
Paraíso, Tab. 2019	Company: VALLEN Project: Accident prevention plan (PPA) for Abkatun-D, Litoral-A process centers and Dos Bocas maritime terminal, Tab.
Paraíso, Tab. 2019	Company: CONSIGNATARIA SAN MIGUEL Project: Risk analysis (What if ...) for 493 TRB Tug Boat called SMS Campeche.
Paraíso, Tab. 2019	Company: VALLEN Project: Comprehensive process risk analysis for the drilling of the Xanab-94 DEVELOPMENT Well.
Reforma, Chis. 2019	Company: GRUPO IBERIA Project: Process risk analysis for the construction of a 6 " ø x 1.1km discharge line approx. from the Sunuapa Well.
Reforma, Chis. 2019	Company: GRUPO IBERIA Project: Process risk analysis for the construction of a discharge line of 6 " ø x 1.2km approx. del Well 502 to Cabezal Comoapa 1.
Comalcalco, Tab. 2019	Company: GRUPO IBERIA Project: Process risk analysis for engineering development for the construction of a 16 " ø x 2.5 km pipeline approx. from the Tokal 1 header to the interconnection of the 16 " x 54.4 km TMDB-Cunducán oil pipeline.
Comalcalco, Tab. 2019	Company: GRUPO IBERIA Project: Analysis of process risk for engineering development for the construction of a 8 " ø discharge from the Pera del Pozo Madrefil 41 to the Interconnection with the 24 " ø Cab.
Comalcalco, Tab. 2019	Company: GRUPO IBERIA Project: Process Risk Analysis for the Development of a 6 " ø Discharge Line from the Macropera Tupilco 96 up to the Tupilco 84 Head
Reforma, Chis. 2019	Company: GRUPO IBERIA Project: Analysis of process risks for engineering development for the construction of a 16 " ø x 18 km oil pipeline Teotleco 101 battery-powered cactus separation head1.
Comalcalco, Tab. 2019	Company: GRUPO IBERIA Project: Analysis of Process Risks for the Construction of a Discharge Line of 10 " ø x 4.7km Approx. from the Cibix Well to the Ayapa Peripheral Head.
Villahermosa, Tab. 2019	Company: GRUPO IBERIA Project: Analysis of Process Risks for the Construction of a Discharge Line for a Well Kenora 1A to Interconnection with the Line of Measurement of Head Terra 1 towards Head SenSur.
Comalcalco, Tab. 2019	Company: GRUPO IBERIA Project: Analysis of Process Risks for Engineering Development and Construction of Infrastructure for the Castarrical Field.

Comalcalco, Tab. 2019	Company: GRUPO IBERIA Project: Process Risk Analysis for Engineering Development for Construction of Infrastructure of the Castarrical Field of the C.P. CTR39-D a Interconecone Castarrical 88.
Reforma, Chis. 2019	Company: GRUPO IBERIA Project: Analysis of Process Risks for Engineering Development for the Construction of a 16 " ø x 1.7km Oil Pipeline the location of Teoteco 101 DL at the 16 "and 8" 0 Oil Pipeline Interconnection from Teoteco 101 to Teoteco 33.
Comalcalco, Tab. 2019	Company: GRUPO IBERIA Project: Analysis of Process Risks for Engineering Development for the Construction of the 3 " ø Discharge Line of the Well Castarrical 12T to Castarrical Battery, Including final mooring of the Castarrical 12T Well and 4 "0 Pear Line.
Reforma, Chis. 2019	Company: GRUPO IBERIA Project: Analysis of Process Risks for the Construction of a 12 "0 x 1.7 Oil Pipeline from Location Teoteco 101 DL to Interconnection with the 16 "0 x 11 km Oil Pipeline from Teoteco 101 to Teoteco 33.
San Fernando, Tamps./2019	Company: IHSA Project: Comprehensive Process Risk Analysis for Oil Heater H-2741 of the Nejo Wet Gas Conditioning Plant 1.
San Fernando, Tamps./2019	Company: IHSA Project: Update of Risk Analysis of integral Process for the Nejo Wet Gas Conditioning Plant 1.
San Fernando, Tamps./2019	Company: IHSA Project: Comprehensive Process Risk Analysis for the Nejo Gas Collection Station 3.
San Fernando, Tamps./2019	Company: IHSA Project: Comprehensive Process Risk Analysis for the Nejo Wet Gas Conditioning Plant 3.
Santa Catarina, N.L. 2018	Company: DUMEZ COPISA Project: Process Risk Analysis for the Santa Catarina Gas Compression Station.
Santa Catarina, N.L. 2018	Company: DUMEZ COPISA Project: Environmental Impact Study for the Santa Catarina Gas Compression Station.
Cd. Del Carmen, Camp. 2018	Company: DNVGL Project: Analysis of LOPA Protection Layers for Reboom Processing Center.
Cd. Del Carmen, Camp. 2018	Company: CSIPA Project: Process Risk Analysis for Cayo Arcas Process Center.
Coatzacoalcos, Ver. 2018	Company: EXTERRAN Project: Process Risk Analysis for the Installation of 2 Motocompressors in the Cuchiapa Compression Station.
Reynosa, Tamps. 2018	Company: IHSA. Project: Update of Process Risk Analysis for Nejo 2 Humid Gas Conditioning Plant.
Reynosa, Tamps. 2018	Company: IHSA. Project: Process Risk Analysis Update for Nejo 2A Gas Collection Station.
Paraíso. Tab. 2018	Company: GRUPO IBERIA. Project: Elaboration of Process Risk Analysis for the Development of Engineering for the Construction of a Line of 2 "Ø X 1.0 Km for Supply of Pneumatic Pumping Gas for the Oxiacaque 21 Well.
Paraíso. Tab. 2018	Company: GRUPO IBERIA. Project: Elaboration of Process Risk Analysis for the Development of Engineering for the Construction of a Line of 2 "Ø X 1.0 Km for Supply of Pneumatic Pumping Gas for the Oxiacaque 21 Well.

Paraíso. Tab. 2018	Company: GRUPO IBERIA. Project: Elaboration of Process Risk Analysis for the Development of Engineering for the Construction of the Oleogasoduct of 10" \varnothing x Approximately 4.8 km of the Separation Battery Tupilco I to Interconnection with the Oleogasoduct of 12" \varnothing x 19 km of Pareto de Pareto - Interc . Chinchorro.
Reynosa, Tamps. 2018	Company: GRUPO IBERIA. Project: Process Risk Analysis Update for Compressors Modulo Nejo 103/203.
Paraíso. Tab. 2018	Company: PETROEXPERT. Project: Update of Environmental Risk Studies (ERA) and Accident Prevention Program (PPA) for the Abkatun-A Process Center, Pol-A Process Center, Abkatun-N1 Operational Center and its Satellite Platforms.
Paraíso. Tab. 2018	Compañía: PETROEXPERT Project: Calculation Memory of Risk Units for Process Centers ABK-A, Pol-A and Abk-N1 and Hydraulic Calculation of the Fire Water Network of the Abk-N1 Process Center
Reynosa, Tamps. 2018	Compañía: IHSA. Project: Process Risk Analysis for the Nejo Liquid Management Center.
Reynosa, Tamps. 2018	Compañía: IHSA. Project: Update of Process Risk Analysis for Compressors Module Nejo 184.
Paraíso. Tab. 2018	Compañía: PROVEEDORA DE SEGURIDAD INDUSTRIAL DEL GOLFO S.A. DE C.V. Project: Elaboration of the ARP of Integral Type Process for the Drilling of Development Wells.
Paraíso. Tab. 2018	Compañía: MAQUINARIA DOGA Project: Analysis of the Process Risk of the Bitter Gas Auxiliary Sweetener at the Dos Boca Maritime Terminal.
Veracruz, Ver. Tab. 2018	Compañía: DUMEZ COPISA Project: Environmental Impact Study of Cempoala Gas Compression Station.
Veracruz, Ver. Tab. 2018	Compañía: DUMEZ COPISA Project: Process Risk Analysis for the Cempoala Gas Compression Station
Cd. Pemex, Tab. 2017	Company: DIARCO Project: Hazard Analysis (HazOp methodology) for the Interconnection Line 10" \varnothing for BN of the 24" \varnothing head to NRU Compressor suction.
Cd. Del Carmen, Camp. 2017	Company: CSIPA/DNVGL Project: Process Hazard Analysis (HazOp methodology) and Layer of Protection Analysis (LOPA) of the KU-S Processing Center.
Cd. Del Carmen, Camp. 2016	Company: ROLLS ROYCE Project: Process Hazard Analysis (HazOp methodology) for the Project "Installation Service of Components and Supplies of Parts for Rolls-Royce Modules of the CPTG ATASTA.
Cd. Del Carmen, Camp. 2016	Company: CSIPA/DNVGL Project: Process Hazard Analysis (HazOp methodology) and Layer of Protection Analysis (LOPA) of the KU-A Processing Center.
Cd. Del Carmen, Camp. 2016	Company: CSIPA/DNVGL Project: Process Hazard Analysis (HazOp methodology) and Layer of Protection Analysis (LOPA) of the KU-M Processing Center.
Veracruz, Ver. 2016	Company: NUVOIL Project: Process Hazard Analysis (HazOp methodology) for the installation and commissioning of equipment of Compression at the Chilpaya gas ERC.

Paraíso, Tab. 2016	Company: ASISTEP / PETROTIGER Project: Process Hazard Analysis (HazOp methodology), Consequence Analysis and Layer of Protection Analysis (LOPA), for Abkatun-D, LIT-A and TMDB Processing Centers.
Reynosa, Tamps. 2016	Company: DIARQCO Project: Process Hazard Analysis (HazOp methodology) for 6 Projects Served by the CIP-GMSAPB.
Poza Rica, Ver. 2016	Company: TIRSA Project: Risk Analysis using the What if ...? Methodology For the identification of safeguards of San Andrés 163, 166,280 and 281 wells and tamping of San Andrés Wells 280 and 163, located in San Andres, Papantla, Ver.
Veracruz, Ver. 2016	Company: DIARQCO Project: Process Hazard Analysis (HazOp methodology) of the 12"Ø Oleduct. x 1.54 Km. From the EMC Xcaanda to the 30"Ø Pipeline -New Teapa-Tula Salamanca.
Altamira, Tamps. 2016	Company: INTERGEN Project: Process Hazard Analysis (HazOp methodology) for Basic and Detail Engineering for the Elimination of Condensate at the Altamira Compression Station.
Veracruz, Ver. 2016	Company: CALFRAC Project: Process Hazard Analysis (HazOp methodology) for the Installation of Flexible Piping in Wells of the Activo Integral Veracruz.
Cd. Del Carmen, Camp. 2016	Company: ROLLS ROYCE Project: (HazOp methodology) of Gas Turbine Updating and Modification Process at the CPG Atasta.
Cd. Del Carmen, Camp. 2016	Company: GIDTEC Project: Safety Requirements Specifications (SRS) for the ABKATUN N1 Processing Center.
Cd. Del Carmen, Camp. 2015	Company: CSIPA Project: Process Hazard Analysis (HazOp methodology) and Layer of Protection Analysis (LOPA) in the KU-M Processing Center.
Cd. Del Carmen, Camp. 2015	Company: UTCAM Project: Process Hazard Analysis (HazOp methodology) of the AKAL C7 / C8 gas processing center.
Cd. Del Carmen, Camp. 2015	Company: CSIPA Project: Process Hazard Analysis (HazOp methodology) and Layer of Protection Analysis (LOPA) in the ZAAP-C Processing Center.
Cd. Del Carmen, Camp. 2015	Company: CSIPA Project: Process Hazard Analysis (HazOp methodology) and Layer of Protection Analysis (LOPA) in the KU-H Processing Center.
Reynosa, Tamps. 2015	Company: SGS Project: Update of the Process Hazard Analysis (HazOp methodology) and functional safety studies of the metering center km 19.
Tula, Hgo. 2015	Company: ICA Flour Project: Layer of Protection Analysis (LOPA) and SIL determination for Combined Plant No. 1. of the "Miguel Hidalgo" Refinery in Tula de Allende, Hgo.
Tula, Hgo. 2015	Company: Chemisa/ Fyresa Project: SIL Determination for Gas and Fire System of the Integrated Automatic Optimized Line Mixing System (SIMLOA) of the Miguel Hidalgo Refinery in Tula de Allende, Hgo.

Salamanca, Gto. 2015	Company: Chemisa Project: Process Hazard Analysis (HazOp methodology), Consequence Analysis and Layer of Protection Analysis (LOPA) for the management of gasolines called parasites at the Refinery "Ing. Antonio M. Amor ", in Salamanca, Gto.
Boca del Río, Ver. 2015	Company: Ciatec Project: Development of User Database, Change Management, Risk Assessment , Basic Engineering and Terms of Reference for Engineering, Procurement and Construction of Infrastructure for unloading, storage, mixing and loading of anhydrous ethanol in storage and distributions terminals.
Paraíso, Tab. 2015	Company: Rolls- Royce Project: Process Hazard Analysis (HazOp methodology) for Replacement and Turbo Generator and Auxiliary Installation Maneuvers at the Abkatun-D Processing Center.
Boca del Río, Ver. 2015	Company: GL Noble Denton Project: Process Hazard Analysis (HazOp methodology) for Gas Compression Station and Cocuite SIAC of the Activo Integral Veracruz Facilities.
Boca del Río, Ver. 2015	Company: GL Noble Denton Project: Process Hazard Analysis (HazOp methodology) for Gas Compression Station and SIAC Lizamba of the Activo Integral Veracruz Facilities.
Boca del Río, Ver. 2015	Company: GL Noble Denton Project: Process Hazard Analysis (HazOp methodology) for Gas Collection and Compression Station of the Activo Integral Veracruz Facilities Mecayucan.
Boca del Río, Ver. 2015	Company: GL Noble Denton Project: Process Hazard Analysis (HazOp methodology) for Gas Separation Battery of the Activo Integral Veracruz Facilities.
Monterrey, N.L. 2014	Company: TECHINT Project: "Process Hazard Analysis (HazOp methodology) and Consequence Analysis for the Combined Cycle Thermoelectric Plant in Pesquería, Nuevo León, Mexico.".
Cd. Del Carmen, Camp. 2014	Company: UTCAM Project: Layer of Protection Analysis (LOPA) and Determination of SIL, applied to the ZAAP-C Processing Center and its Satellite Platforms.
Villahermosa, Tab. 2014	Company: SGS Project: Review and Certification of the Root-Cause Analysis of the Terra Well Accident 123
Boca del Río, Ver. 2014	Company: GL Noble Denton Project: Process Hazard Analysis (HazOp methodology) for Gas Collecting Station and Collector Compression 3 of the Activo Integral Veracruz Facilities.
Boca del Río, Ver. 2014	Company: GL Noble Denton Project: Process Hazard Analysis (HazOp methodology) for Gas Collecting Station and Collector Compression 2 of the Activo Integral Veracruz Facilities.
Boca del Río, Ver. 2014	Company: GL Noble Denton Project: Process Hazard Analysis (HazOp methodology) for Papan Gas Collection and Compression Station of the Activo Integral Veracruz Facilities.
Boca del Río, Ver. 2014	Company: GL Noble Denton Project: Process Hazard Analysis (HazOp methodology) for Xcaanda Measurement and Control Station of the Activo Integral Veracruz Facilities.
Boca del Río, Ver. 2014	Company: GL Noble Denton Project: Process Hazard Analysis (HazOp methodology) for Gasifero Gas Collecting Station of the Activo Integral Veracruz Installations.

Villahermosa, Tab. 2014	Company: Arendal Project: Process Hazard Analysis (HazOp methodology), and Functional Safety Analysis (LOPA, SIL Selection) of the Construction of the 36"Ø gas pipeline x 27 km from the Trinidad to the CPG Cactus.
Reynosa, Tamps. 2014	Company: SGS Project: Process Hazard Analysis (HazOp methodology), and Functional Safety Analysis (LOPA, selection of the SIL) Applied to the Metering Center km -19 Reynosa, Tamps.
Paraíso, Tab. 2014	Company: SGS Project: Process Hazard Analysis (HazOp methodology) and Reliability Studies for Interconnection of the well control console and Emergency Shutdown System of the Satellite Platforms: Yaxche-A and Tsimin-A.
Veracruz, Ver. 2013	Company: MAVA Project: Process Hazard Analysis (HazOp methodology) of the Installation of the Complete Conventional Measuring Equipment in Wells.
Veracruz, Ver. 2013	Company: GPC Energy Project: Process Hazard Analysis (HazOp methodology) of the Installation of the Complete Conventional Measuring Equipment in Wells.
Veracruz, Ver. 2013	Company: Tenaris Tamsa Project: Process Hazard Analysis (HazOp methodology) for the Thermal Treatment Area TTR31 (Austenized Furnace and Tempering Furnace) at Tenaris Tamsa Installations.
Coatzacoalcos, Ver. 2013	Company: CIATEQ Project: Process Hazard Analysis (HazOp methodology) for the Project Evaluation and Optimization Study of the Refrigerated Terminal Of Ethylene I / II of C. P. Pajaritos.
Cd. Del Carmen, Camp. 2013	Company: ROLLS- ROYCE Project: Specialized Support for the Development of an ARP for the ABK-A and POL-A Installations for the Incorporation of Electric Power Backup Generators.
Veracruz, Ver. 2013	Company: CIATEQ Project: Process Hazard Analysis (HazOp methodology) for Basic Engineering, Detail Engineering of the Magna and Diesel Petrol Pumping System of TAR Veracruz to TAR of Tierra Blanca, Ver.
Boca del Rio Ver. 2013	Company: GL Noble Denton Project: Process Hazard Analysis (HazOp methodology) for Perdiz Separation Battery of the Activo Integral Veracruz Facilities.
Boca del Rio Ver. 2013	Company: GL Noble Denton Project: Process Hazard Analysis (HazOp methodology) for Madera Gas Compression Station of the Activo Integral Veracruz Facilities.
Boca del Rio Ver. 2013	Company: GL Noble Denton Project: Process Hazard Analysis (HazOp methodology) for Matapionche Separation Battery of the Activo Integral Veracruz Facilities.
Boca del Rio Ver. 2013	Company: GL Noble Denton Project: Process Hazard Analysis (HazOp methodology) for Gas Collection Station and Fourier Compression of the Activo Integral Veracruz Facilities.
Boca del Rio Ver. 2013	Company: GL Noble Denton Project: Process Hazard Analysis (HazOp methodology) for Gas Collection and Alchemy Compression Station of the Activo Integral Veracruz Facilities.
Boca del Rio Ver. 2013	Company: GL Noble Denton Project: Process Hazard Analysis (HazOp methodology) for Gas Collection and Compression Opening Facility of the Activo Integral Veracruz Facilities.

Boca del Rio Ver. 2013	Company: GL Noble Denton Project: Process Hazard Analysis (HazOp methodology) for Kabuki- Aris Measurement and Control Station of the Activo Integral Veracruz Facilities.
Boca del Rio Ver. 2013	Company: GL Noble Denton Project: Process Hazard Analysis (HazOp methodology) for Cauchy Measurement and Control Station of the Activo Integral Veracruz Facilities.
Tula de Allende Hidalgo. 2012	Company: CSIPA Project: Update of the Process Hazard Analysis (HazOp methodology) in 20 plants at the "Miguel Hidalgo" refinery in Tula de Allende, Hgo. * Plant: atmospheric distillation no. 2 sector: 7 * Reforming gasoline plant U-501 sector: 3 * Catalyst Plant No.1 sector: 2
Coatzacoalcos Ver. 2012	Company: CIATEQ Project: Process Hazard Analysis (HazOp methodology) for the laboratory of quality control of low density polyethylene of the Cangrejera Petrochemical Complex.
Cosoleacaque Ver. 2012	Company: ITSA Project: Process Hazard Analysis (HazOp methodology) Level 3 to Ammonia Plant V, Pemex Petrochemical Complex Cosoleacaque Petrochemical.
Guaymas, Sonora. 2012	Company: CIATEQ Project: Inspection, diagnosis and mechanical integrity to pressure vessels, storage and heat exchangers and piping circuits, to obtain NOM-020-STPS-2002 and international API-510, API-570 and API-653 certification of the installations For ammonia management, and a risk identification study using the Hazard Analysis and Operability (HAZOP) methodology and consequences analysis of the facilities for the ammonia management of the Storage and Terminal Guaymas.
Paraíso, Tab. 2012	Company: DMGP Project: Process Hazard Analysis (HazOp methodology) of pneumatic trap to be installed in the Maritime Terminal Dos Bocas.
Paraíso, Tab. 2011/2012	Company: FUSA S.C. Project: Basic Engineering of the Emergency Shutdown System of the Dos Bocas Maritime Terminal in Tabasco.
Veracruz, Ver. 2010 / 2011	Company: CIATEQ Project: Optimization of the Refrigerated Terminal I / II of the Pajaritos Petrochemical Complex.

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