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Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2019	DHAFIR TECHNOLOGIES LLC	ADNOC REFINING	CONSTRUCTION OF HYDROJETTING FACILITIES & HAZARDOUS WASTE STORAGE FACILITIES IN RUWAI'S REFINERY	Design, Supply, Testing of Fire alarm system and Interface with existing company system, including software programming engineering and documentation to fully comply with the standard or RRW installed system including: 1. New cabinet e/w remote IO (Deliverables included wiring, interconnection, C&E, Loop diagram) 2. Implementation of graphics page in the local SIS Mimic Panel and in the Central Fire Station Server (Deliverables included graphics page related to the new area) 3. Implementation of OPC link with DCS in SIS (Deliverables OPC DCS interface mapping list).	75.000,00
	<i>DHAFIR TECHNOLOGIES LLC</i>	UAE			
2019	SAMSUNG ENGINEERING CO., LTD.	ADNOC REFINING	TAKREER WASTE HEAT RECOVERY PROJECT (WHRP)	Design, fabrication, testing and supply of F&G System to be installed for Waste Heat Recovery Project in GUP Plant, Ruwais (UAE). Main scope of supply is Fire alarm system having full redundancy in logic solving processor and communication link to sub system and main network with all accessories (FAS, LFAP, F&G Network System, HSSD, Detectors, Manual Call Point, Interface Facilities, repeater panel as applicable). We provided also material and work for modification and integration (Including all necessary integration and modification item in existing facility, SIMPLEX 4120 Network) nad material & work for Interface and Integration with other subsystem (HVAC, CCTV, PA, PAC UPS, clean agent, DCS, etc) (for Fire Alarm system).	€ 325.000,00
	<i>SAMSUNG ENGINEERING CO., LTD.</i>	UAE			
2019	CHINA PETROLEUM ENGINEERING & CONSTRUCTION CORPORATION	ADNOC ONSHORE	BAB INTEGRATED FACILITIES PROJECT BIFP	Design, Engineering, Shop inspection, Testing, Documentation, Supply of Firefighting, Safety Equipment and Safety Signs for Bab field Development Project in UAE. Main equipments are: deluge and foam monitor skid, firewater hydrants (WALTER FRANK), hydrant hose cabinets (FIBER WORK), spray nozzles (TYCO/VIKING), hand-held extinguishers (AMEREX), safety shower and eyewash station (HUGHES).	€ 2.100.000,00
	<i>CHINA PETROLEUM ENGINEERING & CONSTRUCTION CORPORATION</i>	UAE			
2019	PETROFAC INTERNATIONAL LLC	BASRA OIL COMPANY	MAJNOON CPF2	Design, Procurement, Supply of the Fire Alarm System for buildings (Central Processing Facilities, such as Fire Station Building, Warehouse, Security Control Room). Main supply is composed by: Fire alarm panel (Simplex USA), Smoke detectors (Simplex USA), Heat detectors (Simplex USA), Manual call points (Simplex USA), Fire alarm siren/ strobe (Indoor & outdoor) (E2S UK).	€ 35.000,00
	<i>PETROFAC INTERNATIONAL LLC</i>	IRAQ			



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Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2019	JV TECNIMONT PHILIPPINES & JGC PHILIPPINES	JG SUMMIT PETROCHEMICAL CORPORATION	HIGH DENSITY POLYETHYLENE UNIT (HDPE) AND THE UPGRADING OF AN EXISTING POLYPROPYLENE UNIT (PP) IN BATANGAS	Design, fabrication, testing and supply of Fire Alarm System composed of F&G PLC 8 doors (Allen Bradley 1756+1715) + Simplex local FAP, with fully redundant configuration. Main devices are: manual call points, sounders, smoke detectors, heat detectors, flashing lights, horns.	€ 360.000,00
	<i>JV TECNIMONT PHILIPPINES & JGC PHILIPPINES</i>	PHILIPPINES			
2019	JV SAMSUNG ENGINEERING CO., LTD. AND CB&I NEDERLAND B.V	ADNOC REFINING	CRUDE FLEXIBILITY PROJECT - CFP	Design, engineering, supply of Fire Alarm System, material and work for modification and integration with Ruwais Refinery Expansion (RRE) and Carbon Black & Delayed Coker (CBDC) refinery, including all necessary integration and modification item in existing facility, material & work for interface and integration with other subsystem (HVAC, CCTV, PA, PAC, UPS, clean agent system, DCS).	€ 5.700.000,00
	<i>SAMSUNG E&C</i>	UAE			
2019	PETROFAC EMIRATES LLC	ADNOC ONSHORE	QUSAHWIRA FIELD DEVELOPMENT PROJECT PHASE II	Mechanical design, fabrication drawings, supply of all materials, fabrication, supply of spares, documentation of Firefighting & Safety equipment according to manufacturer's standard. Main supply includes: Fire Hydrants (4-Way) with Pumper connection, Self – Oscillating Fire Water cum Foam Monitors, Foam Concentrate Storage Tank for Self-Oscillating Monitors, Fire Hose Boxes, Foam Concentrate	€ 635.000,00
	<i>PETROFAC EMIRATES LLC</i>	UAE			
2019	COELMO SPA	ADCO	BAB INTEGRATED FACILITIES PROJECT BIFP	Design, fabrication, testing and supply of Fire Alarm (AutoSafe 4 Control Panel, brand AUTRONICA) and Firefighting System (IG541, INERGEN, Clean Agent Fire extinguishing system) to be installed for BAB INTEGRATED FACILITIES PROJECT (BIFP). Devices included are heat detector (AUTRONICA), flame and gas detectors (DET-TRONICS), MCP, beacons, sounders (MEDC).	€ 200.000,00
	<i>COELMO SPA</i>	UAE			



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2019	TARGET ENGINEERING	ADNOC LNG	REPLACEMENT OF OBSOLETE FIRE DETECTION AND PROTECTION SYSTEMS - DAS ISLAND	Design, Engineering, Documentation, Supply, FAT & Delivery of Fire Alarm System and Fire Detection & Protection System. New addressable Fire Alarm Panels UL Listed, made by SIMPLEX (TYCO) and CO2 system (KFP) and INERGEN system (SIEX) are the main supply. Some devices have been also provided such as smoke detectors (SIMPLEX), UV IR flame detectors (DET-TRONICS), H2S/HC detectors (DET-TRONICS), beacons, sounders.	€ 630.000,00
	<i>TARGET ENGINEERING</i>	UAE			
2019	SLOVENSKE ELEKTRARNE S.A.	SLOVENSKE ELEKTRARNE	MOCHOVCE POWER PLANT	Supply and installation of secondary cable ways in Nuclear Island in Unit 4 for Communication System.	€ 4.900.000,00
	<i>SLOVENSKE ELEKTRARNE SA</i>	SLOVAKIA			
2019	ENPPI	ASSUIT OIL REFINING COMPANY (ASORC)	ASORC NAPHTHA COMPLEX (ISBL)	Design, fabricate, test, supply and guarantee FIRE and GAS DETECTION system, including addressable FIRE ALARM /EXTINGUISHING CONTROL PANEL (SIMPLEX), to connect fire alarm devices, field detection and alarm system devices, such as gas detectors (DET-TRONICS), flame detectors (DET-TRONICS), MCP (MEDC), beacons (E2S).	€ 344.000,00
	<i>ENPPI</i>	EGYPT			
2019	AUTRONICA	KOC	KOC FEED PIPELINES FOR NEW REFINERY PROJECT (NRP)	Design, engineering, materials, fabrication, test, inspection, packing, marking for the Fire and Gas Devices (indoor and outdoor) such as gas detectors, smoke detectors, flame detectors, MCP, combined audio/visual alarms and building Fire Alarm Control Panels (FACP), based on AUTRONICA technology.	€ 74.000,00
	<i>SAIPEM</i>	KUWAIT			



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Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2019	ENPPI	ASSUIT OIL REFINING COMPANY (ASORC)	UTILITIES & OFFSITE FOR ASORC NAPHTA COMPLEX	Design, fabricate, test, supply and guarantee a Fire & gas detection devices package, including Fire Alarm Control Panels (SIMPLEX), detection and alarm system devices (field devices), such as gas detectors (Honeywell), flame detectors (Det-tronics). Heat detectors (Fenwal), beacons, sirens and macp (MEDC).	€ 169.000,00
	<i>ENPPI</i>	EGYPT			
2018	TECNIMONT- KT JV	SOCAR HAOR	SOCAR HAOR MODERNIZATION AND RECONSTRUCTION PROJECT - PACKAGE A	Supply of Gas & Flame Detectors to be installed at SOCAR HAOR Refinery (BAKU), in Azerbaijan Republic. Main devices are: Fire detectors (MSA), MCP (E2S), Gas detectors (HONEYWELL, MSA).	€ 1.200.000,00
	<i>TECNIMONT- KT JV</i>	AZERBAIJAN			
2018	CHINA PETROLEUM ENGINEERING & CONSTRUCTION CORPORATION	ADNOC ONSHORE	BAB INTEGRATED FACILITIES PROJECT (BIFP)	Engineering, design, procurement of materials/components, manufacture and supply of fire and gas devices complete with all the associated necessary accessories. Supply of Building Fire Alarm System includes FACP (AUTRONICA) with addressable type detectors (AUTRONICA) and HSSD System (XTRALIS) complete with all interconnecting cables, glands and associated all necessary required materials for comprehensive installation.	€ 440.000,00
	<i>CHINA PETROLEUM ENGINEERING & CONSTRUCTION CORPORATION</i>	UAE			
2018	PETROFAC EMIRATES LLC	ADNOC ONSHORE	QUSAHWIRA FIELD DEVELOPMENT PHASE - II PROJECT	Modification of existing HSSD and BFAP systems to include the new cabinets. Scope involves updating the existing HSSD Pipe network & VESDA calculation drawings and supplying necessary sample pipe, flexible capillary tube, pipe fittings and accessories like equal tee, trunk adaptor, sample point kits, etc, for monitoring the additional cabinets. New HSSD and BFAP systems, including supply & engineering of air aspirator count & size, tubing length and size, number of detectors, number of sampling points and bulk.	€ 250.000,00
	<i>PETROFAC EMIRATES LLC</i>	UAE			



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Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2018	EVOTEK	GAMA POWER SYSTEM	RADES POWER PLANT	Supply of hydrogen and fuel gas detectors complete with ex-proof combustible gas sensor and ex-proof gas sensor box (manufacturer DET TRONICS).	€ 19.000,00
	EVOTEK	TUNISIE			
2018	EVOTEK	GAMA POWER SYSTEM	ALBA PS5 POWER PLANT	Supply of H2S Gas Detectors, complete with detector transmitter toxic gas sensor module, cable gland, end plug, cylinder and calibration kit (DET TRONICS).	€ 50.000,00
	EVOTEK	BAHRAIN			
2018	EVOTEK	GAMA POWER SYSTEM	RADES POWER PLANT	Supply of CO2 fire protection systems for electrical room and FM200 fire protection system for control room, certified with UL/FM approvals.	€ 205.000,00
	EVOTEK	TUNISIE			
2018	EVOTEK	GAMA POWER PLANT	RADES POWER PLANT	Supply of CO2 pressurized cylinders unit for water spray system for GT Main Transformer, TAR Transformer, Step Down Transformer, ST Main Transformer. Deluge skids for deluge water spray system on transformer.	€ 115.000,00
	EVOTEK	TUNISIE			



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Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2018	ALEX SISTEMI SPA	KOC	AL-ZOUR REFINERY PROJECT	Supply of Fire and Gas devices for Al-Zour Plant in Kuwait. Main components are: smoke detectors (NOTIFIER USA), manual call points (NOTIFIER USA), beacons and horns (MEDC, NOTIFIER USA), hydrocarbon and hydrogen gas detectors (HONEYWELL).	€ 246.000,00
	<i>ALEX SISTEMI SPA</i>	KUWAIT			
2018	ENPPI	BAPETCO	SITRA PRODUCED WATER REINJECTION	Supply of FIRE AND GAS DETECTION DEVICES for SITRA project. Main devices are: spot type hydrocarbon IR detectors, FM approved (DET-TRONICS), multispectrum IR flame detectors FM approved (DET-TRONICS), manual alarm call points and beacons (MEDC).	€ 57.000,00
	<i>ENPPI</i>	EGYPT			
2018	TECNICAS REUNIDAS S.A.	SAUDI ARAMCO	HARADH AND HAWIYAH FIELD GAS COMPRESSION PROJECT	Supply of fire detection with related alarm devices to be installed for HARADH AND HAWIYAH FIELD GAS COMPRESSION PROJECT, KSA. Main devices are: Flame detectors (DET-TRONICS), visual/audible notification devices (combined horns, amber strobes, process area - EATON MEDC)	€ 255.000,00
	<i>TECNICAS REUNIDAS S.A.</i>	SAUDI ARABIA			
2018	EVOTEK	BORUSAN POWER SYSTEMS	TURKSTREAM CPP CONTAINER	Supply of Fire Extinguishing control panel based on SM SYSTEM (SAFCO manufactured), including assembling/wiring of the panel, engineering and FAT. SM SYSTEM is a fire detection system in compliance with the following European regulations: EN54-2: - Fire detection and fire alarm systems: control and indicating equipment - EN54 4: Fire detection and fire alarm systems EN12094 1: Components for gas extinguishing systems	€ 60.000,00
	<i>EVOTEK</i>	TURKEY			



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Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2018	AGIBA PETROLEUM COMPANY	AGIBA PETROLEUM COMPANY	NEW FIRE DETECTION, FIREFIGHTING AND OPEN DRAIN SYSTEMS AT SW PLATFORM PROJECT	Design, fabricate, test, supply and guarantee a FIRE DETECTORS, FIRE ALARM DEVICES FIRE DETECTION AND ALARM SYSTEM, which include a new Fire Detection System Control Panel with IP 55 Self Standing Cabinet, RAL 3000 painted, display and Power Supply Unit, addressable loop (SLC) up to 250 devices. Main devices are addressable modules (SIMPLEX), 3IR flame detectors (AUTRONICA), hydrocarbon gas detectors (DRAEGER), manual alarm call points (MEDC), sirens and beacons (MEDC).	€ 229.000,00
	<i>ENPPI</i>	EGYPT			
2018	ENPPI	PETROSALAM	PETROSALAM, OFFSHORE PRODUCTION UNIT WITH DRILLING OFFSHORE JACK-UP RIG PROJECT	Supply of FIRE and GAS DETECTION DEVICES, such as hydrocarbon IR detectors (HONEYWELL), IR detectors (HONEYWELL), H2S toxic gas detectors (HONEYWELL), multispectrum IR flame detectors (DET-TRONICS), manual alarm call points (MEDC), sirens and beacons (MEDC).	€ 39.000,00
	<i>ENPPI</i>	EGYPT			
2018	ALEX SISTEMI SPA	ABB SPA	DEBSWANA	Supply of Fire Detection system and Suppression system, based on NOVEC system and VESDA VLS detector with a centrally mounted LCD Programmer module. We provided also manual call points, optical smoke detectors and optical acoustical alarm signs.	€ 58.000,00
	<i>ALEX SISTEMI SPA</i>	BOTSWANA			
2018	EDILSIDER	ENTREPRISE NATIONALE DE GRANDS TRAVAUX PETROLIERS - ENGTP	MAIN SITE CAMP	Supply of design, manufacturing, quality control, shipment, erection and commissioning at customer's facilities in Calolziocorte(LC) for the quantity of 7 Firefighting Pump Systems. Main items are as follows: -Design and Engineering according UNI/EN standards -Firefighting Pump CE marked and deluge skids for process areas protection. -Steel Spools galvanized for water Tank connection -Shipment, Erection and Commissioning activities at customer's facilities in Calolziocorte(LC) - Italy	€ 280.000,00
	<i>EDILSIDER</i>	ALGERIA			



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Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2018	YOKOGAWA MIDDLE EAST & AFRICA B.S.C.(C)	ENOC	EPCL JEBEL ALI REFINER EXPANSION PROJECT	IP public address & telephone system for building and process area complete with server for tone generation & communication management plus operator workstation composed by PC, monitor and microphone. The system is composed by a central cabinet and 8 peripheral cabinets, telephones and loudspeakers.	€ 230.000,00
	<i>YOKOGAWA MIDDLE EAST</i>	UAE			
2018	AXIS SOLUTIONS PVT LTD	ORPIC	NGL EXTRACTION UNIT AT LIWA PLASTICS INDUSTRIES COMPLEX	Design, fabrication, testing and supply of FIRE ALARM SYSTEM including fire & gas field devices. The system is based on AUTRONICA technology, with graphic pages interface (HMI). As devices have been supplied beacons and horns, provided by MEDC, and smoke detectors, provided by Autronica.	€ 20.000,00
	<i>GS ENGINEERING & CONSTRUCTION</i>	OMAN			
2018	GS ENGINEERING & CONSTRUCTION	TAKREER ABU DHABI OIL REFINING CO.	RRE2 REBUILDING PROJECT, RUWAIS REFINERY WEST PLANT RESTORATION PROJECT (RRW)	Supply of fire & gas devices which were damaged during a fire broke out at Ruwais Refinery Process unit (RRE2) in Abu Dhabi at the beginning of 2017. Same equipment and/or parts were provided for the existing project (Ruwais Refinery Expansion Project). Main devices were as follows: linear heat detector cable (Protectowire), junction boxes (Protectowire), fire alarm mimic panel display (TL ELECTRONIC), H2S gas detector (General Monitors), HC gas detector (General Monitors).	€ 305.000,00
	<i>GS ENGINEERING & CONSTRUCTION</i>	UAE			
2018	PETROBEL	PETROBEL	ZOHR DEVELOPMENT PROJECT, ZOHR ONSHORE - PHASE 2 - RUP (RAMP UP TO PLATEAU)	Design, fabrication, testing and supply of Fire & Gas and Firefighting System to be installed for ZOHR Development Project Egypt MW. The system is based upon Simplex Grinnell - Tyco 4100ES series configurations. MFACP and FACP are composed by a Simplex 4100ES single CPU, single power supply and single I/O cards. Main Fire Alarm Control Panel and local Fire Alarm Control Panel are mounting and connected in a network via Class X Multi mode fiber optic cable. Total flooding extinguishing system (FM200) has been provided for PLER & PESB in main and reserve configuration.	€ 3.400.000,00
	<i>PETROBEL-ENI SPA</i>	EGYPT			



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Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2018	PETROBEL	PETROBEL	ZOHR DEVELOPMENT PROJECT - PHASE 2	Supply of firefighting and safety equipments for Zohr Onshore project, Phase 2. Main equipments include: fire water hydrants, hose storage boxes, water & foam monitors c/w local foam storage tank (1200lt AFFF 3%), hose reel indoor & outdoor, safety cabinets (fire blanket, first aid box etc.), winsocks, safety signs, wheeled dry powder extinguishers, water deluge skids & water /foam deluge skids.	€ 715.000,00
	<i>PETROBEL-ENI SPA</i>	EGYPT			
2018	SEAWAY	KOC	CONSTRUCTION OF REMOTE HEADER MANIFOLDS AND ASSOCIATED WORKS IN SOUTH AND EAST KUWAIT AREAS	Design, Supply, Installation & Testing of F&G, Detection & FM200 suppression for 220KVA Genset container system. Design, Supply, Installation & Testing of F&G Detection & FM200 suppression for 500KVA Genset container system. Design, Supply, Installation & Testing of F&G Detection & FM200 suppression for 1600KVA Genset container system.	€ 567.000,00
	<i>SEAWAY</i>	KUWAIT			
2018	ABB SPA	ENI GHANA	TAKORADI-TEMA INTERCONNECTION PROJECT (TTIP)	Supply of Autronica addressable Fire & Gas devices, including gas detectors, fire detectors, heat detectors with junction boxes, cable glands. All devices are certified according to IEC EX standard. All detectors are handled by the Autronica fire alarm control panel supplied for the same project to TTC SRL.	€ 220.000,00
	<i>ABB SPA</i>	GHANA			
2018	TECHNIP ITALY S.P.A.	ENOC	EPCL JEBEL ALI REFINER EXPANSION PROJECT	Supply of 3 peripheral cabinets and filed devices (loudspeakers and telephones) to be integrated with the central cabinet supplied for the same project to Yokogawa Middle East,	185.000,00
	<i>TECHNIP</i>	UAE			



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Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2018	TTC SRL	ENI GHANA	TAKORADI-TEMA INTERCONNECTION PROJECT (TTIP)	Supply of Autronica Fire & Gas alarm control panel, including interface boards. In addition horns, beacons and manual call points have been supplied. Integration and testings have been also carried out between panel and devices.	€ 145.000,00
	TTC	GHANA			
2018	SAIPEM SPA	NAOC - NIGERIAN AGIP OIL COMPANY LTD	OKPAI IPP PHASE 2	Design, fabrication, testing and supply of Fire Alarm and Detection System to be installed and integrated with existing Fire Alarm System for OKPAI IPP PHASE 2. We have considered LFCEP01 (AM6000 Alarm Panels EN54 Listed), made by NOTIFIER manufacturer, already installed in the plant. For This panel we have provided supply of expansion building filed device, that will be addressable or addressed by module and compatible with NOTIFIER AM6000 protocol.	€ 159.000,00
	SAIPEM SPA	NIGERIA			
2018	MEC ENERGY	CUMMINS ITALIA	CUMMINS ITALIA – CO2 FIRE PROTECTION SYSTEM	An automatic CO2 total flooding fire protection system in a turn-key scope of supply was provided for an Emergency Diesel Generator located in a hospital facility (Northern of Italy) Mainly components, CE marked as applicable, were Fire Alarm Control Panel FACP (Hochiki technology), Fire detectors and fire alarm devices (smoke and heat detectors, Hochiki technology), CO2 Fire suppression System consisting of two 67L storage cylinders manifolded with flexible discharge hoses and assembled in a galvanized steel rack with all needed activating/signaling accessories, Fire Alarm signaling system.	€ 68.000,00
	MEC ENERGY	ITALY			
2018	DEUNGJU INSTRUMENT	ORPIC	OFF-SITE WORKS & UTILITIES ANALIZER SHELTER PACKAGE AT LIWA PLASTIC INDUSTRIES COMPLEX (LPIC)	Design, fabrication, testing and supply of Fire Alarm system including fire & gas field devices. The system is based on AUTRONICA technology. Main devices are as follows: - Manual call point (MCP), MEDC - Heat Detectors, Autronica	€ 40.000,00
	GS ENGINEERING & CONSTRUCTION	OMAN			



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Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2017	INTERGEN ENERGY	BAHRAIN LNG W.L.L.	BAHRAIN LNG IMPORT TERMINAL PROJECT (EDG PACKAGE)	Design, fabrication, testing and supply of fire & gas detection system and HFC227ea Clean Agent System UL Listed and FM Approved. Fire alarm system is based on AUTRONICA AutoSafe 4 with 4004R Simplex Suppression Releasing Panel.	€ 135.000,00
	<i>GS ENGINEERING & CONSTRUCTION</i>	BAHRAIN			
2017	PROCESS CONTROLS CO., LTD	ORPIC	OFF-SITE WORKS & UTILITIES PACKAGE AT LIWA PLASTIC INDUSTRIES COMPLEX (LPIC)	Design, fabrication, testing and supply of FIRE ALARM SYSTEM INCLUDING FIRE & GAS FIELD DEVICES. The system is based on AUTRONICA technology provided with all necessary associated devices installed in cabinets and completely wired and ready to be connected to incoming cables.	€ 550.000,00
	<i>GS ENGINEERING & CONSTRUCTION</i>	OMAN			
2017	TECNIMONT S.P.A.	ORPIC	POLYETHYLENE (PE) / POLYPROPYLENE (PP) PACKAGE AT LIWA PLASTIC INDUSTRIES COMPLEX (LPIC)	Design, fabrication, testing and supply of FIRE ALARM SYSTEM + FM200 FIRE EXTINGUISHING CONTROL PANELS INCLUDING FIRE & GAS FIELD DEVICES. The system is based on Notifier US technology provided with all necessary associated devices installed in cabinets and completely wired and ready to be connected to incoming cables.	€ 1.990.000,00
	<i>TECNIMONT S.P.A.</i>	OMAN			
2017	GS ENGINEERING & CONSTRUCTION	TAKREER ABU DHABI OIL REFINING CO.	RRE2 REBUILDING PROJECT, RUWAIS REFINERY WEST PLANT RESTORATION PROJECT (RRW)	Supply of fire & gas devices wich were damaged during a fire broke out at Ruwais Refinery Process unit (RRE2) in Abu Dhabi at the begining of 2017. Same equipment and/or parts were provided for the existing project (Ruwais Refinery Expansion Project). Main devices were as follows: linear heat detector cable (Protectowire-USA), flame detector MSIR (General Monitors-IRL), flame detector UV/IR (General Monitors-IRL), manual station break glass (MEDC-UK), fire alarm sounder (MEDC-UK), alarm beacon (MEDC-UK).	€ 290.000,00
	<i>GS ENGINEERING & CONSTRUCTION</i>	UAE			



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Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2017	TERNA S.A	DEPA PUBLIC GAS CORPORATION OF GREECE S.A.	UPGRADE OF REVITHOUSSA OF LNG TERMINAL	Design, fabrication, testing and supply of a firefighting system including 3" deluge valve cabinet. The deluge valve has been assembled into a K-MASS LITE® Fireproof Enclosure (steel cabinet RAL 2002, preassembled with valves, pipes and instruments c/w heat tracing anti-freezing system for pipes).The whole system has been installed at Revithoussa LNG Terminal, Attica Greece. This supply complies with NFPA 15 standard for Water Spray Fixed Systems for Fire Protection & deluge skids.	€ 50.000,00
	<i>TERNA S.A</i>	GREECE			
2017	TECNIMONT S.P.A.	PRPC (PETRONAS REFINERY AND PETROCHEMICAL CORPORATION)	RAPID (REFINERY AND PETROCHEMICALS INTEGRATED DEVELOPMENT) PACKAGE #7	Design, fabrication, testing and supply of Fire ALARM SYSTEM with related field devices. The FAS is composed by a BS-420-G dual controller complete with dual redundant power supply 220Vac 50/60Hz. Fire Alarm System has been designed to continuous detection, control and monitor the addressable devices such as smoke detectors, heat detectors and manual call stations. Fire and gas alarm control panel has been designed also to continuously interrogate the each device in the communication channel for status conditions (normal, off-normal, alarm, supervisory and trouble)	€ 250.000,00
	<i>TECNIMONT S.P.A.</i>	MALAYSIA			
2017	HISCO INC.	BAHRAIN LNG W.L.L.	BAHRAIN LNG IMPORT TERMINAL PROJECT LOCAL EQUIPMENT ROOM - LER (JETTY AND REGAS)	Design, fabrication, testing and supply of fire alarm system with related devices and firefighting & deluge water spray systems to be installed for LNG Import Terminal project, Bahrain - Local Equipment Room - LER (Jetty and Regas area). The Fire & Gas System, based on Autronica technology, shall be provided with all necessary associated modular devices installed in cabinets and completely wired and ready to be connected to incoming cables. The Firefighting System will be based on Kidde Technology.	€ 350.000,00
	<i>HISCO INC.</i>	BAHRAIN			
2017	Yokogawa Middle East & Africa B.S.C.(c)	SAUDI ARAMCO	Master Gas System Expansion (MGSE) Project - Phase II	Supply of Fire Detection and Alarm System (FDAS) and Visual Flame Detection (VFD) System .The Fire Detection and Alarm Systems (FDAS) is provided for all equipment and buildings at the Booster Gas Compressor Station (BGCS) #1.All the building's FDAS and the FDAS from Compressor Control Cabin are interface to the M-FDAS in the CCB. All process devices are connected to MFDAS and FDAS (PIB); MFDAS and all FDAS are networked via Redundant F.O. link and MFDAS only is interfaced with PCS through redundant Modbus.	€ 1.900.000,00
	<i>SEPCO</i>	SAUDI ARABIA			



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Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2017	KHARAFI NATIONAL	TAKREER ABU DHABI OIL REFINING CO.	Improvement of firefighting facilities at Abu Dhabi Refinery	Supply of one New PLC system (2935K-PLC-001) that will be installed in the new Containerised Substation (2935K) to interface the signals of Switchgear 57-PC-001. This panel will be installed for collect the serial I/Os coming from the new Switch gear (57-PC-001) and will guarantee the interface with the existing Honeywell DCS in IRP/PLCR control room (area-2) via redundant Fibre optic link. The panel will be based on Allen Bradley – ControlLogix system and related components	€ 44.000,00
	<i>KHARAFI NATIONAL</i>	<i>UAE</i>			
2017	PROCESS CONTROLS CO., LTD	BAHRAIN LNG W.L.L.	BAHRAIN LNG IMPORT TERMINAL PROJECT	Design, fabrication, testing and supply of Fire Alarm system with related devices to be installed for LNG Import Terminal Project, Bahrain. The System is based upon Autronica technology. Main devices are VESDA, detectors, manual call point (MCP), beacon and flames. Main suppliers for these devices are Autronica, Det-Tronics, MEDC, Spectrex.	€ 260.000,00
	<i>PROCESS CONTROLS CO.LTD</i>	<i>BAHRAIN</i>			
2017	TECNIMONT S.P.A.	PRPC (PETRONAS REFINERY AND PETROCHEMICAL CORPORATION)	RAPID (REFINERY AND PETROCHEMICALS INTEGRATED DEVELOPMENT) PACKAGE #7	Supply of a Fire Alarm System including the design, materials, fabrication, testing, documentation, inspection, packing, marking, delivery site services. The Fire Alarm System Including Field Devices for the 2 x 450 kty Polypropylene Spheripol (SPH) & Spherizone (SPZ) plant units licensed by Lyondell Basell within the PETRONAS RAPID (Refinery And Petrochemical Integrated Development) Project.	€ 304.000,00
	<i>TECNIMONT S.P.A.</i>	<i>MALAYSIA</i>			
2017	EDILSIDER	SONATRACH	HASSI MESSAOUD PROJECT , REF. EDILSIDER LOTS 3/4/5/6	Design, materials, fabrication, inspection & test and supply of the Firefighting System. The supply consists in the following main components: -Firefighting Pump -Firefighting Hydrants network (hydrants, valves and self standing hose cabinets, piping , fittings and valves).	€ 58.000,00
	<i>EDILSIDER</i>	<i>ALGERIA</i>			



References List

Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2017	S.I.A. - SAFETY INDUSTRIAL APPLICATIONS SRL	ADCO	AL DABB'YA FACILITIES DEVELOPMENT PHASE III - EDGS PACKAGE	Supply of Fire & Gas detection and Firefighting Panels for EDGs to be installed for AL DABB'YA Facilities Development Phase III located in the U.A.E. based upon AUTRONICA technology. Field equipments have been provided such as gas detectors, heat detectors, flame detectors, smoke detectors, manual call points, fire alarm bells, beacons and horns, abort station.	€ 124.000,00
	<i>S.I.A. - SAFETY INDUSTRIAL APPLICATIONS SRL</i>	UAE			
2016	SAIPEM	ARAMCO OVERSEAS COMPANY	KHURAI AREA FACILITIES EXPANSION & SAT, GOSP	Supply of Gas Detection System composed by H2S toxic gas detectors semiconductor type and Hydrocarbon Combustible Gas detectors catalytic type with start up and calibration.	€ 206.000,00
	<i>SAIPEM</i>	SAUDI ARABIA			
2016	SCHNEIDER ELECTRIC-INVENSYS	PETROBEL	ZOHR DEVELOPMENT PROJECT, EGYPT	Design, fabrication, testing and supply of Fire & Gas and Firefighting, Deluge Skid & Water Spray Systems to be installed for ZOHR Development Project Egypt MW. The system is based upon Simplex Grinnell - Tyco 4100ES series configurations. MFACP and FACP are composed by a Simplex 4100ES single CPU, single power supply and single I/O cards. Main Fire Alarm Control Panel and local Fire Alarm Control Panel are mounting and connected in a network via Class X Multi mode fiber optic cable. Total flooding extinguishing system (INERGEN, IG-541) have been provided for PLER & PESB in main and reserve configuration.	€ 2.000.000,00
	<i>SCHNEIDER ELECTRIC-INVENSYS</i>	EGYPT			
2016	SAIPEM	ITAL GAS STORAGE SRL	CORNEGLIANO LAUDENSE NATURAL GAS STORAGE PLANT	Supply of Fire & Gas Detection Instruments including installation, engineering and design. Main field equipments which have been provided are gas detectors (OLDHAM), flame detectors (GM), linear detectors (CAVICEL), manual call point, sounder and beacons.	€ 235.000,00
	<i>SAIPEM</i>	ITALY			



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Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2016	SAIPEM	ARAMCO OVERSEAS COMPANY	KHURAI AREA FACILITIES EXP & SAT, GOSP	Revamping and modification of existing system (devices, graphic pages, ...). Supply of new systems with all accessories and devices. Supply of a new FDS composed by Rockwell PLC and Notifier panels with back up servers and graphic pages supervision systems. All sytems have been designed in network through Fiber Optic. Engineering and design have been developed in accordance with Project specification and local Standards as bu Customer requirements.	€ 1.600.000,00
	<i>SAIPEM</i>	SAUDI ARABIA			
2016	TECHINT COMPAGNIA TECNICA INTERNAZIONALE SPA	UEEPC MINISTRY OF ELECTRICITY & REN ENERGY	SOUTH HELWAN POWER PROJECT	Design, supply, test, documentation of an addressable Fire Alarm Detection System based upon the SIMPLEX - Tyco 4100ES series network including 1 Main Fire Alarm Control Panel (MFACP) and 15 Local Fire Alarm Control Panels (LFACP). Panels are connected in Network with Multi Mode Fiber Optic ring Class X using proprietary protocol. Main panel has redundant power supply and all FAPs are self standing mounted. A supervisory/graphic PC station provide displaying and visualization of the entire plant and the alarm levels based upon the physical position of the devices.	€ 427.000,00
	<i>TECHINT COMPAGNIA TECNICA INTERNAZIONALE SPA</i>	EGYPT			
2016	TECNIMONT S.P.A.	EGYPTIAN CHEMICAL INDUSTRIES CO. (KIMA)	AMMONIA & UREA FERTILIZER PLANT, KIMA PROJECT	Design, fabrication, testing and supply of Fire & Gas Devices to be installed for KIMA Ammonia & Urea Fertilizer Project Plant in Aswan City – Egypt. The new F&G PLC is based on ALLEN BRADLEY solution, included in RITTAL wall mounting cabinet. Open paths and other detection devices for Ammonia have been provided.	€ 500.000,00
	<i>TECNIMONT S.P.A.</i>	EGYPT			
2016	TECNIMONT S.P.A.	SOCAR POLYMER LLC	POLYPROPYLENE PLANT AZERBAIJAN-PP/U&O	Supply of Fire Alarm System and F&G Process PLC based upon Simplex and Allen Bradley technology . Field equipment has been provided such as smoke detectors, manual call points, fire alarm bells, beacons and horns, wind speed & direction detectors, plant wide evacuation fire. All equipment is UL /ATEX certified as per customer requirements.	€ 369.500,00
	<i>TECNIMONT S.P.A.</i>	AZERBAIJAN			



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Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2016	PETROBEL	PETROBEL	ZOHR ENI EGYPT- FF SYSTEM & CCP	Supply of Firefighting System (Water/Foam/Deluge/Dry Chemicals) in accordance with NFPA with design and development: calculation piping routing and fabrication and testing of cylinder and other firefighting accessories.	€ 355.000,00
	PETROBEL-ENI SPA	EGYPT			
2016	TECNICAS REUNIDAS S.A.	ABU DHABI GAS INDUSTRIES LTD (GASCO)	IGD-E (PHASE 1) ONSHORE PIPELINE HABSHAN	Supply and engineering of devices for Onshore Pipeline Habshan Package 3. Lamps, horns, beacons, manual call points, etc. have been provide. Devices are connected with DCS system.	€ 54.000,00
	TECNICAS REUNIDAS S.A.	UAE			
2016	YOKOGAWA	DANGHARA	DANGHARA COMPLEX TAJIKISTAN	Supply of F&G Devices: smoke, heat detectors, manual call points, linear hear detectors, sounders, beacons, gas detectors (Hydrocarbon, Toxic, H2). 3IR flame detectors have been also supplied.	€ 185.000,00
	YOKOGAWA	TAJIKISTAN			
2016	TECNICAS REUNIDAS S.A.	GASCO - ABU DHABI GAS INDUSTRIES LTD	IGD-E (PHASE 1) PACKAGE 3, ONSHORE PIPELINE & HABSHAN MODIFICATIONS	Supply of HSSD panels, linear heat detectors, smoke detectors, manual call points, beacons, horns.	€ 47.000,00
	TECNICAS REUNIDAS S.A.(UTE IGD)	UAE			



References List

Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2016	SAMSUNG ENGINEERING CO., LTD.	SONATRACH. TOTAL & CEPSA	TIMIMOUN FIELD DEVELOPMENT PROJECT, EPCCS1-CPF AND OFFISITE	Supply of equipment and instrumentation for the Fire & Gas System. Equipment are both for safe and hazardous locations: smoke (optical point type and aspirating type), heat detectors, manual call point, Sounder and beacons, local status panels c/w manual release, abort and visual indicators. For classified area all the equipment has been supplied as per ATEX regulations. Basic engineering is also included: equipment detailed installation drawings, wiring & interconnection diagrams (JB and Equipment), JB layout and VESDA piping routing & sketch.	€ 235.000,00
	<i>SAMSUNG ENGINEERING CO., LTD.</i>	ALGERIA			
2016	HISCO INC.	SCOP	KARBALA REFINERY PROJECT	Design, calculation, sketch, fabrication, testing, supply, electrical & mechanical materials and installation of Fire Detection Alarm and Firefighting System (Complete FM-200 Fire Suppression Systems NFPA 2001, UL 2166 Approved - for CABLE ROOM, Main/Reserve Cylinders) for Generator Technical Shelters for GTG/STG. FD panel is manufactured by AUTRONICA (AutoSafe4 series and redundant CPU self standing cabinet) while FF manufactured by Simplex Grinnell - Tyco 4100ES series. The project is executed according to EN54 normative for FAS and in compliance with IEC Normative for devices (where applicable). All the equipment has been supplied as per ATEX normative.	€ 450.000,00
	<i>KARBALA REFINERY PROJECT SCOP</i>	IRAQ			
2016	TECNIMONT S.P.A.	POWER PLANT CDEEH (DOM) EP	PUNTA CATALINA POWER PLANT	Design, eng, manufacturing, supply, inspection & testing for a Fire and Gas Alarm & Detection System based upon the Simplex Grinnell - Tyco 4100ES series network incl 1 Main Fire Alarm Control Panel (MFACP) & 16 Local Fire Alarm Control Panels (LFACP). Panels are connected in Network with Multi Mode Fiber Optic ring Class X using proprietary protocol.FGS System panels are designed according to the local seismic load calculation and certified for seismic application.FGS is designed to detect fire and gas alarm conditions, perform automatic response including activation of notification devices and activation of extinguishing systems (Clean Agent, CO2, Water Mist, Foam, etc.). Water deluge skids and water spray systems for process area were also supplied.	€ 859.000,00
	<i>TECNIMONT S.P.A.</i>	DOMINICAN REPUBLIC			
2016	ABB SPA	OMV EXPLORATION & PRODUCTION GMBH (TUNISIAN)	NAWARA AND SOUTH TUNISIA GAS DEV. CPF FLOWLINES AND WELLPADS	Supply of EN54 / ATEX, Fire and Gas System for CPF and Wellheads (WELLSITES), Fire and Gas System for NAC, N.2 Main Fire Alarm Control Panels TYCO MZX 4000;N.9 Local Fire Alarm Control Panel for ICT Passive Cooled Shelter; Annunciator Panel for NAC-CCR TYCO MZX-32-R; Mimic Panels;IR Point Gas Detector Methane; Hydrogen Gas Detector; IR Flame Detector; Open Path IR Gas Detector & FM200 System	€ 210.000,00
	<i>ABB SPA</i>	TUNISIE			



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Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2016	TECHINT COMPAGNIA TECNICA INTERNAZIONALE SPA	EAST DELTA ELECTRICITY COMPANY (EDEPC)	AL SHABAB POWER PROJ PHASE II	Design, supply, test, documentation of an addressable Fire Alarm Detection System based upon the Simplex Grinnell - Tyco 4100ES series network including 1 Main Fire Alarm Control Panel (MFACP) and 6 Local Fire Alarm Control Panels (LFACP). Panels are connected in Network with Multi Mode Fiber Optic ring Class X using proprietary protocol. Main panel has redundant power supply and all FAPs are self standing mounted. A supervisory/graphic PC station provide displaying and visualization of the entire plant and the alarm levels based upon the physical position of the devices.All equipments meet NFPA70, NFPA72, US standards, UL and FM approvals.	€ 191.000,00
	<i>TECHINT COMPAGNIA TECNICA INTERNAZIONALE SPA</i>	EGYPT			
2016	TECHINT COMPAGNIA TECNICA INTERNAZIONALE SPA	EAST DELTA ELECTRICITY COMPANY	WEST DAMIETTA POWER PROJECT PHASE II	Design, supply, test, documentation of an addressable Fire Alarm Detection System based upon the Simplex Grinnell - Tyco 4100ES series network including 1 Main Fire Alarm Control Panel (MFACP) and 4 Local Fire Alarm Control Panels (LFACP). Panels are connected in Network with Multi Mode Fiber Optic ring Class X using proprietary protocol. Main panel has redundant power supply and all FAPs are self standing mounted. Field devices for safe and hazardous locations (manual call points, heat detectors, horns, strobes..) have been also provided. All equipment meet NFPA70, NFPA72, US standards, UL and FM approvals.	€ 210.000,00
	<i>TECHINT COMPAGNIA TECNICA INTERNAZIONALE SPA</i>	EGYPT			
2016	TOZZI SUD SPA	ADCO	RUMAITHA SHANAYEL PHASE III DEVELOPMENT PROJECT	Addition to Supply Clean Agent System and F&G detection to be installed on five GIS containers for ADCO Rumaitha Project Abu Dhabi	€ 65.000,00
	<i>ANGLO EASTERN</i>	UAE			
2016	TOZZI SUD SPA	ADCO	RUMAITHA SHANAYEL PHASE III DEVELOPMENT PROJECT	Design, Fabrication, Testing and Supply of Firefighting System & F&G System to be installed on five GIS containers for ADCO Rumaitha Project Abu Dhabi	€ 100.000,00
	<i>ANGLO EASTERN</i>	UAE			



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Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2015	SITEK CASPIAN LLP	NORTH CASPIAN OPERATING OIL COMPANY	KASHAGAN FIELD DEVELOPMENT EXPERIMENTAL PROGRAMME	Supply of equipment and instrumentation for Fire & Gas System, for safe and hazardous locations: Smoke, Heat, Gas Detectors. Manual call point, Selector switches for Inergen system. For classified area, all the equipment has been supplied as per ATEX/CE/EAC normative and standards. For indoor safe area as per EN54.	€ 62.500,00
	SAIPEM	KAZHAKSTHAN			
2015	SAIMEXICANA S.A. DE C.V. /SAIPEM GROUP	COMISION FEDERAL DE ELECTRICIDAD	SAIPEM SERVICES MEXICO S.A DE C.V. FERMACA PROJECT	Design, fabrication, testing and supply of the new Fire Alarm System based on #1 detection and releasing Simplex 4100ES series panel + Tone Generator Federal signal, stand alone and self standing mounted. Devices installed: Smoke, manual call points, heat detectors, discharge hand switches, abort switches. For building zone, all the supplied equipment meet NFPA 70, NFPA 72, US standards, UL and FM approvals.	€ 24.000,00
		MEXICO			
2015	PROTEX UK SYSTEM LTD	SEMBMARINE SLP - SIEMENS	DUDGEON OFFSHORE WIND FARM ELECTRICAL SYSTEM INFRASTRUCTURE	Design, Supply, Test, Documentation of a Platform Fire Detection and Protection control panel with related field devices for safe and hazardous locations. The system is based on one addressable AUTRONICA panel capable of SIL 2 operations, with single CPU, single power supply, SIL 2 addressable loop controllers, data communication modules (Modbus over TCP/IP). The system design is 'stand-alone'. The FDAP is provided with a dedicated in-built HMI which display all alarms and faults within the system. All equipments are designed to withstand the saline atmosphere in the North Sea, suitable for offshore installation and operation and comply with the requirements of all relevant EU Directives.	€ 208.000,00
	PROTEX UK SYSTEM LTD	UK			
2015	BOKUK ELECTRIC	ADMA-OPCO	BOKUK ELECTRIC	Design, calculation, sketch, fabrication, testing and supply of Fire Alarm and Firefighting System (CO2 with Main & Reserve cylinders) for Emergency Diesel Generators. Provided solution is based on a common FDFP panel, manufactured by AUTRONICA using the SIL2 AutoSafe4 series and related Dual Safety panel hardware architecture (redundant CPU, redundant Power Supply and redundant communication). The project is executed according to EN 54 normative for FAS and in compliance with IEC Normative for devices (where applicable). For classified area, all the equipment has been supplied as per ATEX normative. Supplied CO2 system is UL Listed.	€ 575.500,00
		UAE			



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Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2015	HDGSK JV	KARBALA REFINERY PROJECT	HDGSK JV	Design, Supply, Test, Documentation of a Fire Detection System with related field devices for safe and hazardous locations. The system is based on #62 addressable AUTRONICA panels AutoSafe4 series, with redundant CPU, single power supply, and self standing mounted. The system design is 'stand-alone' . Each Fire Alarm Panel communicates with a supervisor panel through single mode F/O cable in star topology redundant network (total #5 SV Panels based on Embedded PC technology in redundant configuration) with graphics pages provided displaying a visualization of the entire refinery and the alarm levels based upon the physical position of the devices.All equipment & panels meet NFPA 70, NFPA 72, UL and/or FM approvals (except Alarm devices).	€ 3.000.000,00
		IRAQ			
2015	DENHOLM	ABU DHABI MARINE OPERATING COMPANY (ADMA-OPCO)	SATAH AL RAZBOOT (SARB) FIELD DEVELOPMENT PROJECT	Design, calculation, sketch, fabrication, testing, supply and electrical & mechanical Installation of Fire Detection Alarm and Firefighting System (NOVEC1230 configured with 100% reserve cylinders) for Local Equipment Rooms. Solution is based on a common FDFP panel, manuf by AUTRONICA using the SIL2 AutoSafe4 series and related Dual Safety panel hardware architecture (redundant CPU, redund Power Supply and redundCommunication).The project is according to EN54 normative for FAS and comply with IEC Normative for devices (where applicable). Supplied NOVEC system is UL Listed and tested by Factory Mutual (FM).The turn-key job includes all field devices.	€ 835.000,00
	DENHOLM	UAE			
2015	TOZZI SUD SPA	ADCO	TOZZI SUD ABU DHABI RUMAITHA PROJECT	Supply of equipments and instrumentation for Firefighting and Fire & Gas System.	€ 165.200,00
	TOZZI SUD SPA	UAE			
2015	KHAN	ADMA - OPCO	Satah Al Razboot Sarb Project	Design, calculation, sketch, supply, test, documentation of a Novec extinguishing system based upon AUTRONICA technology EN 54 and SIL 2 configuration. The FAS system has a redundant power supply, communication module, loop driver module, single addressable I/O module & interface/switching module . The system is in network and it is based on a single mode F.O.cable. Devices supplied : Novec cylinder , N2 cylinder , solenoid and all other accessories.	€ 1.900.000,00
	KHAN	UAE			



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Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2015	SAIPEM	ENI NORTH AFRICA	Mellitah	Engineering design & acoustic calculation of an evacuation site system complete of panels & radio for remote controller. Pole for site siren and all other accessories for installation have been provided.	€ 240.000,00
	E2S	Lybia			
2015	INVENSYS SYSTEMS ITALIA S.P.A.	ENI DIVISIONE R&M	Tempa Rossa	Fire & gas devices with base installation engineering and FAT procedure.	€ 130.000,00
	SAIPEM	Italy			
2015	ALSTOM POWER GAS BUSINESS	REPUBLIC OF IRAQ MINISTER OF ELECTRICITY	Al Ambar	Design, Supply, Test, Documentation of a gas detection system (GT 26 Gas Turbines type). Moreover Safco supplied: Gas Detection Unit & Air Sampling System. Pumps, gas conduits, pipes, probes, electrical material and pneumatic materials were provided (General Monitors, MEDC, various). For building zone, the project is executed according to ATEX requirements. Equipment supplied for classified area is in compliance with IEC normative.	€ 450.000,00
	METKA OVERSEAS LIMITED	Iraq			
2015	KHAN	ADMA - OPCO	Satah Al Razboot Sarb Project	Design, Supply, Test, Documentation of a redundant FAS upon AUTRONICA technology EN 54 and SIL 2 configuration. FAS system has a redundant power supply, communication module, loop driver module, single addressable I/O module & interface/switching module . The FAS is in network and it is based on a single mode F.O.cable. Devices supplied : flame detectors, call points, heat detectors, horns, strobes and HSSD panel scanner. The project is executed according to EN 54 normative for FAS and in compliance with IEC Normative for devices (where applicable).	€ 700.000,00
	KHAN	UAE			



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Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2015	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	ADMA - OPCO	Satah Al Razboot Sarb Project	Design, Supply, Test, Documentation of a redundant FAS upon AUTRONICA technology EN 54 and SIL 2 configuration. FAS system has a redundant power supply, communication module, loop driver module, single addressable I/O module & interface/switching module . The FAS is in network and it is based on a single mode F.O.cable. Devices supplied : flame detectors, call points, heat detectors, horns, strobes and HSSD panel scanner. The project is executed according to EN 54 normative for FAS and in compliance with IEC Normative for devices (where applicable).	€ 500.000,00
	<i>HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.</i>	UAE			
2015	SAIPEM	ENI VERSALIS	ENI Versalis Ferrara	Design, Supply, Test, Documentation of 4 Fire Alarm Systems based upon Siemens technology model FC2080 with REDUNDANT CPU. All Fire Alarm systems are configured in stand alone. Devices installed: call points, heat detectors, horns. Strobes have been also provided (Cooper, Siemens, various). Firefighting system with deluge skids and water spray systems were also supplied.	€ 400.000,00
	<i>SAIPEM</i>	Italy			
2015	KHAN	ADMA - OPCO	Satah Al Razboot Sarb Project	Design, Layout , Supply, Test, Documentation of n. 10 shelters for Novec extinguishing system. SAFCO supplied special shelter with air conditioning and special painting for Novec cylinder's installation in Hazardous Area.	€ 530.000,00
	<i>KHAN</i>	UAE			
2014	NAIZAK GLOBAL ENGINEERING	POWER COGENERATION PLANT COMPANY	Saudi Aramco third party cogeneration projects	Cogen Project is based upon three different sites :Hawiyah – Abqaiq – Ras Tanura. These three sites have the same configuration: A master simplex panel and two local cabinet controlled in simplex network. The system will be supplied including fire alarm devices such as smoke detectors, beam detectors, linear heat sensible cable, junction boxes and so on. Sprinkler and water spray deluge systems were also supplied. Engineering such as Panel Mechanical Drawings, Wiring, Interconnection, Loop, Cause & Effect are the scope of work.	€ 250.000,00
	<i>SAMSUNG ENGINEERING CO., LTD.</i>	Saudi Arabia			



References List

Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2014	NAIZAK GLOBAL ENGINEERING <i>SAMSUNG E&C</i>	SAUDI ARAMCO <i>Saudi Arabia</i>	Clean Transportation Fuels at Riyadh Refinery	Engineering, documentation and supply of Fire Alarm system composed of 4 panels, 4 mimic panels, 3 repeater panels for fire alarm. The FACP's are stand alone (no network) and wall mounted. Each FACP is composed by a Notifier NFS2-3030 with single CPU, single power supply and single I/O cards. All LFACP's alarm and fault status is reported by means of a display located both in the front and remote panels. The supply includes also the following devices: photoelectric fire detectors; heat detectors, HSSD fire detectors, fire alarm manual station, audible alarm horns, flash lights for fire alarm Ex, fault isolator module, fire alarm junction box.	€ 95.000,00
2014	SAMSUNG ENGINEERING CO., LTD. <i>SAMSUNG ENGINEERING CO., LTD.</i>	SAUDI ARAMCO <i>Saudi Arabia</i>	Luberef Yanbu Refinery Expansion Project	Fire Alarm System based upon the Simplex Grinnell - Tyco 4100ES series network. The Network is composed of 1 Main Fire Alarm Control Panel (MFACP) and 8 Local Fire Alarm Control Panel (LFACP). Existing Yanbu network will be interfaced to new systems also. A Scada system is provided to manage alarm coming from existing, new and GDS areas, Graphic Animated pages will be the Human interface with the fire alarm systems. The system will be supplied including fire alarm devices such as smoke detectors, beam detectors, linear heat sensible cable, junction boxes and so on. Engineering such as Panel Mechanical Drawings, Wiring, Interconnection, Loop, Cause & Effect, Graphic pages are the scope of work.	€ 400.000,00
2014	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD. <i>HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.</i>	ADMA-OPCO <i>UAE</i>	Satah Al Razboot (SARB) field development project	Design, Supply, Test, Documentation of 5 Fire Alarm System based upon Autronica technology, SIL 2 certified Panel with REDUNDANT CPU and Single I/O in stand alone configuration. Each Fire Alarm system will communicate with a supervisor system with graphic pages where will be possible to check devices status. Devices installed: combustible & toxic gas detectors, manual call points, heat detectors, horns, strobes have been also provided (General Monitors, MEDC, Apollo, various). For building zone, all the supplied equipment meet EN 54 or UL approvals. For classified area, all the equipment has been supplied as per Atex or UL normative.	€ 450.000,00
2014	SICON OIL & GAS SPA - CCC GROUP <i>SICON OIL & GAS SPA - CCC GROUP</i>	ZADCO <i>UAE</i>	Satah Facilities Replacement of main diesel generators at Arzanah House Replacement	Fire and Gas system based upon Allen Bradley ControlLogix PLC and SAFCO C-LIB Fire Alarm Panel. The system is designed in order to realize a total integrated F&G network and includes Fire & Gas Control Panels, Servers and N° 2 Supervisory PC Station c/w Graphic pages (HMI) based Mimic Panels. Supply of 1 LFACP connected in network system with supervisor system (HMI graphic pages). For building zone, all the supplied equipment meet NFPA 70, NFPA 72, US standards, UL and FM approvals. For classified area, all the equipment is supplied as per IEC normative.	€ 150.000,00



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Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2014	NAIZAK GLOBAL ENGINEERING	ARAMCO OVERSEAS COMPANY	Rabigh Phase II Petrochemical Project	Design, Supply, Test, Documentation of 5 Fire Alarm systems based upon Simplex technology Model 4100 ES with Graphic Mimic Panels for devices status. Supply of devices that will be connected to simplex system & supply of devices that will be connected to Yokogawa system. Devices supplied: Call points, heat detectors, horns and strobes have been also provided (Simplex, MEDC, various). For building zone, all the supplied equipment meet NFPA 70, NFPA 72, US standards, UL and FM approvals. For classified area, all the equipment is supplied as per IEC normative.	€ 500.000,00
	<i>SNAMPROGETTI SAUDI ARABIA LTD</i>	<i>Saudi Arabia</i>			
2014	DAEWOO E&C CO. LTD	GENERAL ELECTRICITY COMPANY OF LYBIA	Zwitina Combined cycle ADD-On project	Fire alarm & detection system using TRANSPONDER CONCEPT: No. 1 Fire Alarm Control Panel (FACP) Simplex 4100ES series, UL Listed Addressable panel; No. 6 Simplex 4100ES Series MINIPLEX transponders, UL Listed; No. 4 Suppression Release Panels Simplex 4004R Series, UL Listed; No. 2 Annunciator Panels. Flame detectors, MCP's, Lamps & Sirens, Fire Detectors (Smoke & Heat)	€ 150.000,00
	<i>DAEWOO E&C CO. LTD</i>	<i>Lybia</i>			
2014	GS ENGINEERING & CONSTRUCTION	NGHI SON REFINERY AND PETROCHEMICAL LLC	Nghi Son Refinery and Petrochemical (NSRP) Complex Project	Design, Supply, Test, Documentation of a Fire Alarm Detection Systems including 70 Fire Alarm Panels in standalone configuration based upon Simplex technology Model 4100ES with LCD Mimic Panels for devices status. Manual Call points, electronic siren, heat detectors, horns and strobes have been also provided (Simplex, MEDC, various). For building zone, all the supplied equipment meet NFPA70, NFPA72, US standards, UL and FM approvals, Compliance to Fire Detection and Alarm System Vietnamese code & standards (TCVN-5738-2001); For classified area, all the equipment has been supplied as per IEC normative.	€ 1.000.000,00
	<i>JGCS CONSORTIUM</i>	<i>Vietnam</i>			
2014	DAEWOO E&C CO. LTD	GROUP OCP	Jorf Lasfar Fertilizer P3 Site Project	Design, Supply, Test, and Documentation of 3 Fire Alarm System based upon Siemens Technology model FC2080 with REDUNDANT CPU and connected in network system Certificate EN54 with the upgrading of the existing Fire Alarm System Workstation Siemens supervisor system MM8000 Server + 3 Client MM8000) for the Jorf Lasfar P3 project. Devices installed: call points, heat detectors, horns, strobe have been also provided (Cooper, Siemens, various). For building zone, all the supplied equipment meet EN 54 approvals. For classified area, all the equipment has been as per IEC normative.	€ 250.000,00
	<i>DAEWOO E&C CO. LTD</i>	<i>Morocco</i>			



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Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2014	NAIZAK GLOBAL ENGINEERING	SAUDI ARAMCO	Rabigh Phase II Project- Interconnecting Package (UO1) Petrochemical Project	Design, Supply, Test, Documentation of 11 Fire & Gas detection systems based upon Simplex technology Model 4100 ES with Mimic Panels for devices status. Manual Call points, electronic siren, heat detectors, horns and strobes have been also provided (Simplex, MEDC, FEDERAL SIGNAL, various). For building zone, all the supplied equipment meet NFPA 70, NFPA 72, US standards, UL and FM GS Engineering & Construction Corp. Approvals. For classified area, all the equipment has been supplied as per IEC normative.	€ 400.000,00
	<i>GS ENGINEERING & CONSTRUCTION</i>	<i>Saudi Arabia</i>			
2014	TECNIMONT S.P.A.	SLOVNAFT PETROCHEMICALS	LDPE Bratislava (SK) EPC	Design, Supply, Test, Documentation of : 3 FACP based upon Siemens technology model FC2080 with REDUNDANT CPU, single I/O connected in network system certificate EN 54 with Siemens supervisor system MM8000 Server & one remote leds mimic panel; 1 Gas Detection System based upon Rockwell Automation PLC controller L71 technology certificate EN 54, with Redundant CPU, single I/O & with HMI series Plus 700. Devices installed: Toxic & Combustible gas detector, UV/IR flame, manual call points, heat detectors, horns, strobes have been also provided (MSA, MEDC, Siemens, ROCKWELL, various). For building zone, all the supplied equipment meet EN 54 approvals. For classified area, all the equipment has been supplied as per IEC normative.	€ 790.000,00
	<i>TECNIMONT S.P.A.</i>	<i>Slovakia</i>			
2014	SILVANI SPA	UTE	Punta del Tigre	Design, Supply, FAT Test & Documentation of 3 systems based upon Simplex 4100ES technology . One control panel for CO2 & Inergen and 2 control panels for FM 200. Extinguishing systems are designed according NFPA 70 & 72. Moreover Safco supplied field equipments: clean agent local panel for discharge, horns & strobes.	€ 85.000,00
	<i>HYUNDAI ENGINEERING & CONSTRUCTION</i>	<i>Uruguay</i>			
2014	ENI S.P.A.	ENI S.P.A.	Raffineria di Sannazzaro	Design, Supply, FAT Test, SAT test & Documentation of 1 Fire & Gas System based upon PLC HIMA technology model H41q-HS designed in SIL 2 configuration, included foam Skid. Fire & gas system has been designed according to certificate EN 54 , while foam skid system has been realised in accordance with EN13445. This system has been installed in Sannazzaro Refinery storage building. Moreover SAFCO supplied field equipments : manual call points, horns and strobes.	€ 95.000,00
	<i>ENI S.P.A.</i>	<i>Italy</i>			



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Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2013	SK ENGINEERING & CONSTRUCTION CO. LTD	ENERJISA ENERJI ÜRETİM	Tufanbeyli Thermal Power Plant Project Turkey	Design, Supply, Test, Documentation of 21 Fire Alarm System based upon Siemens technology model FC2080 with REDUNDANT CPU and connected in network system certificate EN 54 with Siemens supervisor system MM8000 Server) for Tufanbeyli project. Devices installed: UV/IR flame, call points, heat detectors, horns, strobes have been also provided (General Monitors, MEDC, Siemens various). For building zone, all the supplied equipment meet EN 54 approvals. For classified area, all the equipment has been supplied as per IEC normative.	€ 780.000,00
	<i>SK ENGINEERING & CONSTRUCTION CO. LTD</i>	<i>Turkey</i>			
2013	NAIZAK GLOBAL ENGINEERING	SAUDI ARAMCO	Rabigh Phase II Petrochemical Project Package (UO2 & UO3)	Design, Supply, Test, Documentation of 11 Fire & Gas detection systems based upon Simplex technology Model 4100 ES with Mimic Panels for devices status. Call points, heat detectors, horns and strobes have been also provided (Simplex, MEDC, various). For building zone, all the supplied equipment meet NFPA 70, NFPA 72, US standards, UL and FM approvals. For classified area, all the equipment has been supplied as per IEC normative.	€ 160.000,00
	<i>PETROFAC INTERNATIONAL LTD</i>	<i>Saudi Arabia</i>			
2013	SAIMEXICANA, S.A. DE C.V. / SAIPEM GROUP	PEMEX RAFINACION	Gasolina Project Salamanca Refinery	Design, Supply, Test, Documentation of 7 Fire Alarm Control Panel, based upon Simplex technology model 4100ES with + Tone Generator Federal signal. Devices installed: Smoke, call points, heat detectors, horns & strobes. For building zone, all the supplied equipment meet NFPA 70, NFPA 72, US standards, UL and FM approvals.	€ 130.000,00
	<i>SAIMEXICANA, S.A. DE C.V. / SAIPEM GROUP</i>	<i>Mexico</i>			
2013	SAIMEXICANA, S.A. DE C.V. / SAIPEM GROUP	PEMEX RAFINACION	Gasolinas Proyecto Tula Refinery	Design, Supply, Test, Documentation of 5 Fire Alarm Control Panel, based upon Simplex technology model 4100ES with + Tone Generator Federal signal. Devices installed: Smoke, call points, heat detectors, horns & strobes. For building zone, all the supplied equipment meet NFPA 70, NFPA 72, US standards, UL and FM approvals.	€ 100.000,00
	<i>SAIMEXICANA, S.A. DE C.V. / SAIPEM GROUP</i>	<i>Mexico</i>			



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Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2013	ALSTOM (SWITZERLAND) LTD	ELECTRICITY GENERATING AUTHORITY OF THAILAND	North Bangkok 2 Power Plant	Design, Supply, Test, Documentation of 2 Gas detection PLC panels with Redundant CPU & power supply & 2 Gas detection systems (Sampling) for GT 26 Gas Turbines type, based upon Last Rockwell technology model L71 with graphic pages. Moreover, SAFCO supplied: Gas Detection Unit & Air Sampling System. Conduit, pipes, probes, electrical material and pneumatic materials have been as well as pumps, gas detectors, valves, strobes (General Monitors, MEDC, various). For building zone, the project is executed according to ATEX requirements. Equipment supplied for classified area is in compliance with IEC normative.	€ 300.000,00
	ALSTOM (SWITZERLAND) LTD	Thailand			
2013	ROCKWELL AUTOMATION B.V.	PETROJUNIN - PDVSA	Produccion temprana 2012 de Petrojunin	Design, Supply, Test, Documentation of 4 systems: - 2 Pumps Vibration Monitor System based upon Rockwell technology CPU model 1756 & I/O series 1783 - 2 PCS systems based upon Rockwell technology CPU & I/O model 1756 - 1 Fire Alarm System based upon General Monitors cards Above systems are connected in network via FO and supervisor workstation allows system status visualization.	€ 80.000,00
	SAIPEM SPA	Venezuela			
2013	DAEWOO E&C CO. LTD	OCP DI SITES JORF LASFAR	Jorf Lasfar Fertilizer	Design, Supply, Test, Documentation of 4 Fire Alarm System based upon Siemens technology model FC2080 with REDUNDANT CPU and connected in network system certificate EN 54 with Siemens supervisor system MM8000 Server + 4 Client MM8000) for the Jorf Lasfar project. Devices installed: call points, heat detectors, horns, strobe have been also provided (Cooper, Siemens various).... For building zone, all the supplied equipment meet EN 54 approvals. For classified area, all the equipment has been as per IEC normative.	€ 265.000,00
	DAEWOO E&C CO. LTD	Morocco			
2013	ENI S.P.A. - RAFFINERIA DI SANNAZZARO	ENI S.P.A.	Raffineria di Sannazzaro	SAFCO Engineering supplied General Monitors gas detectors (HC, H2S, H2...) for Sannazzaro Refinery Project	€ 10.000,00
	ENI S.P.A. - RAFFINERIA DI SANNAZZARO	Italy			



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Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2013	ICS TRIPLEX S.R.L.	SAFCO V	SAFCO V – UREA stand alone project Jubail	SAFCO Engineering developed: project architecture system; 11 rockwell plc software; 11 panel views; 1 master Scada and relevant graphic pages configuration. Safco also supplied testing HW & SW activities, devices & Safco PLC addressable card model C-LIB for each PLC.	€ 100.000,00
	<i>SAIPEM SPA</i>	<i>Saudi Arabia</i>			
2013	INDORAMA ELEME PETROCHEMICALS LIMITED	INDORAMA ELEME PETROCHEMICALS LTD	UPGRADING /REVAMPING FOR ELEME PETROCHEMICALS PLANT	Supply of engineering, hardware materials, software modification, documents update and installation with site activities for the commissioning for the Upgrading/Revamping of the Existing Smoke Detection and HALON 1301 system control panel 06-FFP1 for ELEME PETROCHEMICALS plant based in Nigeria. Site activities included: replacement of the existing CPU rack with new version model and existing display monitoring cards with the new model, supply of new field device, HW & SW upgrading of the existing fire panel, upgrading of the existing documentation and supply of SW copy.	€ 50.000,00
	<i>INDORAMA ELEME PETROCHEMICALS LTD</i>	<i>NIGERIA</i>			
2013	THYSSENKRUPP FORDERTECHNIK GMBH	GASCO - ABU DHABI GAS INDUSTRIES LTD	Ruwais Sulphur Handling Terminal 2	Supply of engineering and Fire & Gas devices (detection equipments) related to the E-House, Transformer room, Stacker/Reclaimer and their ancillary equipment for the implementation of RUWAIS SULPHUR HANDLING TERMINAL 2 located in the UAE. All F&G devices supplied were connected to the Honeywell Controller System (Safety Manager) supplied by Others. The Engineering supplied included: Dimensional Panels & Wiring Diagrams (all wiring information up to F&G panel), F&G layouts, F&G C&E diagrams, Field Device typical installation drawings (electrical and dimensional).	€ 120.000,00
	<i>TECHINT COMPAGNIA TECNICA INTERNAZIONALE SPA</i>	<i>UAE</i>			
2013	TECHINT COMPAGNIA TECNICA INTERNAZIONALE SPA	SAUDI ARAMCO	YERP-SAERP Yanbu Export Refinery Project - Solids handling Package SP-3	FGS system composed of 6 panels (indoor/outdoor), 21 mimic panels (indoor/outdoor) and devices. Engineering includes: layout check in accordance with NFPA72, cable routing and standards for FGS systems such as panel layout/wiring/block diagram/loop diagram, Aramco standard based. Un addition, SASo certificate has been provided.	€ 500.000,00
	<i>TECHINT COMPAGNIA TECNICA INTERNAZIONALE SPA</i>	<i>Saudi Arabia</i>			



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Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2012	ENPPI	QARUN PETROLEUM	QPC EBAH Power Station Project	Design, Supply, Test, Documentation of a Fire Alarm System SIMPLEX based c/w addressable devices, field & indoor junction boxes, optical and acoustic devices. Dynamic graphic pages have been also provided.	€ 250.000,00
	<i>ENPPI</i>	<i>Egypt</i>			
2012	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	BOROUGE	XLPE Borouge 3 Project - Ruwais	Design, Supply, Test, Documentation of 5 Fire Alarm Systems (FACP) based upon Simplex 4100 ES technology certified NFPA 72 and connected in network system with two supervisor workstations. The network is based on a single mode F.O.cable. Flame detectors, call points, heat detectors, horns, strobes and HSSD panel scanner have been also provided . The project is executed according to US standards, NFPA 70 and 72, UL, FM and in compliance with IEC Normative.	€ 560.000,00
	<i>HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.</i>	<i>UAE</i>			
2012	TECHINT COMPAGNIA TECNICA INTERNAZIONALE SPA	EAST DELTA ELECTRICITY COMPANY	El Ain Sokna Electricity Production thermal Power Units 1&2 2x650 MW gas/oil fired units	Design, Supply, Test, Documentation of FGS system composed by: 1 MAIN FACP + 7 (local fire control panel) based upon Simplex 4100 ES technology certified NFPA 72 and connected in single mode F.O. cable network with one supervisor workstations. H2 Gas detectors, manual call points, smoke detectors, heat detectors, horns and strobes have been also provided. The project is executed according to US standards, NFPA 70 and 72, UL, FM and in compliance with IEC Normative.	€ 300.000,00
	<i>TECHINT COMPAGNIA TECNICA INTERNAZIONALE SPA</i>	<i>Egypt</i>			
2012	ALSTOM (SWITZERLAND) LTD	SAMRA ELECTRIC POWER CO.	SAMRA IV Thermal Power Station Fast Track	Design, Supply, Test, Documentation of 1 Gas detection PLC panel with single CPU and redundant power supply and 1 Combustible Gas detection systems (Sampling) for GT13 Gas Turbine type, based upon Rockwell technology with graphic pages. Moreover Safco supplied: conduit, pipes, probes, electrical material and pneumatic materials. Pumps, gas detectors, valves, strobes have been also provided (General Monitors, MEDC, various). Equipment supplied for classified area are in compliance with IEC normative	€ 145.000,00
	<i>ALSTOM (SWITZERLAND) LTD</i>	<i>Jordan</i>			



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Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2012	ALSTOM (SWITZERLAND) LTD	NWPGCL NORTH -WEST POWER GENERATION COMPANY	GT 13 Gas Turbines - Khulna project	Design, Supply, Test, Documentation of 1 combustiblE gas alarm system (GT 13 Gas Turbines type). Moreover Safco supplied: Gas Detection Unit & Air Sampling System. Conduit,pipes,probes,electrical material and pneumatic materials were provided. Pumps, gas detectors,valves,strobes have been also provided (General Monitors, MEDC, various).For building zone, the project is executed according to ATEX requirements. Equipment supplied for classified area is in compliance with IEC normative.	€ 105.000,00
	ALSTOM (SWITZERLAND) LTD	Bangladesh			
2011	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	BOROUGE	U&O - Borouge 3 Project	Design, Supply, Test, Documentation of 14 (LFCP local fire control panel) based upon Simplex 4100 ES technology certified NFPA 72 and connected in network system with two supervisor workstations..The network shall be based via single mode F.O.cable. The mimic panel will be connected to relevant LFCP via serial link..Flame detectors, call points, heat detectors, horns and strobes have been also provided.The project is executed according to US standards, NFPA 70 and 72, UL, FM and in compliance with IEC Normative.	€ 1.500.000,00
	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	UAE			
2012	ALSTOM (SWITZERLAND) LTD	REPUBLIC OF IRAQ MINISTRY OF ELECTRICITY	Gas Turbine Power Al Mansurya	Design, Supply, Test, Documentation of 4 Gas detection PLC panels with single CPU and redundat power supply and 4 Combustible Gas detection systems (Sampling) for GT13 Gas Turbine type, based upon Rockwell technology with graphic pages. Moreover Safco supplied: conduit, pipes, probes, electrical material and pneumatic materials. Pumps, gas detectors, valves, strobes have been also provided (General Monitors, MEDC, various).Equipment supplied for classified area are in compliance with IEC normative.	€ 500.000,00
	ALSTOM (SWITZERLAND) LTD	Iraq			
2012	SAMSUNG ENGINEERING CO., LTD.	TAKREER ABU DHABI OIL REFINING CO.	CARBON BLACK AND DELAYED COKER - CBDC	Fire and Gas system for Refinery protection based upon Allen Bradley ControlLogix PLC and SAFCO C-LIB Fire Alarm Panel. The system is designed in order to realize a total integrated F&G network and includes Fire & Gas Control Panels, Servers and Touch Screen PC based Mimic Panels. Two central control stations with alarms & faults graphic pages are also provided at Fire Station and Main Control Room. All network nodes are interconnected via redundant fibre optic Ethernet network. DCS and AMS communication are provided via redundant OPC.	€ 6.000.000,00
	SAMSUNG ENGINEERING CO., LTD.	UAE			



Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2011	TSJ LIMITED	BOROUGE	PP/PE Ruwais	Design, Supply, Test, Documentation of 25 (LFCEP local fire control panel) Fire & Gas detection systems based upon Simplex technology and connected in network system with supervisor system (HMI graphic pages) for the polyolefin's Borouge 3 project. For building zone, all the supplied equipment meet NFPA 70, NFPA 72, US standards, UL and FM approvals. For classified area, all the equipment is supplied as per IEC normative.	€ 2,300.000,00
	TECNIMONT – SAMSUNG JOINT VENTURE	UAE			
2011	TSJ LIMITED	BOROUGE	LDPE Ruwais (UAE)	Design, Supply, Test, Documentation of 5 (LFCEP local fire control panel) Fire & Gas detection systems based upon Simplex technology and connected in network system with supervisor system (HMI graphic pages) for the LDPE unit's Borouge 3 project. Flame detectors, call points, heat detectors, horns and strobes have been also provided (General Monitors, MEDC, various). For building zone, all the supplied equipment meet NFPA 70, NFPA 72, US standards, UL and FM approvals. For classified area, all the equipment is supplied as per IEC normative.	€ 550.000,00
	TECNIMONT – SAMSUNG JOINT VENTURE	UAE			
2011	ALSTOM (SWITZERLAND) LTD	COMISION FEDERAL DE ELECTRICIDAD	GT 24 GAS TURBINES - EL SAUZ PROJECT	Design, Supply, Test, Documentation of 1 Combustible Gas Alarm System (GT 24 Gas Turbines type). Moreover Safco supplied: Gas Detection Unit & Air Sampling System. Conduit, pipes, probes, electrical material and pneumatic materials were provided. Pumps, gas detectors, valves, strobes have been also provided (General Monitors, MEDC, various). All the equipment supplied is UL approved.	€ 106.000,00
	ALSTOM (SWITZERLAND) LTD	Mexico			
2010	DAEWOO E&C CO. LTD	TAKREER ABU DHABI OIL REFINING CO.	Ruwais Refinery Expansion Project	Fire and Gas system for Refinery protection based upon Allen Bradley ControlLogix PLC and SAFCO C-LIB Fire Alarm Panel. The system is designed in order to realize a total integrated F&G network and includes Fire & Gas Control Panels, Servers and Touch Screen PC based Mimic Panels. Two central control stations with alarms & faults graphic pages are also provided at Fire Station and Main Control Room. All network nodes are interconnected via redundant fibre optic Ethernet network. DCS and AMS communication are provided via redundant OPC.	€ 3.100.000,00
	DAEWOO E&C CO. LTD	UAE			



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Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2010	SK ENGINEERING & CONSTRUCTION CO. LTD	TAKREER ABU DHABI OIL REFINING CO.	Ruweis Refinery Expansion Project	Fire and Gas system for Refinery protection based upon Allen Bradley ControlLogix PLC and SAFCO C-LIB Fire Alarm Panel. The system is designed in order to realize a total integrated F&G network and includes Fire & Gas Control Panels, Servers and Touch Screen PC based Mimic Panels. Two central control stations with alarms & faults graphic pages are also provided at Fire Station and Main Control Room. All network nodes are interconnected via redundant fibre optic Ethernet network. DCS and AMS communication are provided via redundant OPC.	€ 5.300.000,00
	<i>SK ENGINEERING & CONSTRUCTION CO. LTD</i>	UAE			
2010	GS ENGINEERING & CONSTRUCTION	TAKREER ABU DHABI OIL REFINING CO.	Ruweis Refinery Expansion Project	Fire and Gas system for Refinery protection based upon Allen Bradley ControlLogix PLC and SAFCO C-LIB Fire Alarm Panel. The system is designed in order to realize a total integrated F&G network and includes Fire & Gas Control Panels, Servers and Touch Screen PC based Mimic Panels. Two central control stations with alarms & faults graphic pages are also provided at Fire Station and Main Control Room. All network nodes are interconnected via redundant fibre optic Ethernet network. DCS and AMS communication are provided via redundant OPC.	€ 1.600.000,00
	<i>GS ENGINEERING & CONSTRUCTION</i>	UAE			
2010	FALCON	TAKREER ABU DHABI OIL REFINING CO.	Ruweis Refinery Expansion Project	Fire and Gas system for Refinery protection based upon Allen Bradley ControlLogix PLC and SAFCO C-LIB Fire Alarm Panel. The system is designed in order to realize a total integrated F&G network and includes Fire & Gas Control Panels, Servers and Touch Screen PC based Mimic Panels. Two central control stations with alarms & faults graphic pages are also provided at Fire Station and Main Control Room. All network nodes are interconnected via redundant fibre optic Ethernet network. DCS and AMS communication are provided via redundant OPC.	€ 1.800.000,00
	<i>FALCON</i>	UAE			
2010	GS ENGINEERING & CONSTRUCTION	TAKREER ABU DHABI OIL REFINING CO.	Ruweis Refinery Expansion Project	Fire and Gas system for Refinery protection based upon Allen Bradley ControlLogix PLC and SAFCO C-LIB Fire Alarm Panel. The system is designed in order to realize a total integrated F&G network and includes Fire & Gas Control Panels, Servers and Touch Screen PC based Mimic Panels. Two central control stations with alarms & faults graphic pages are also provided at Fire Station and Main Control Room. All network nodes are interconnected via redundant fibre optic Ethernet network. DCS and AMS communication are provided via redundant OPC.	€ 3.600.000,00
	<i>GS ENGINEERING & CONSTRUCTION</i>	UAE			



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Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2010	SAMSUNG ENGINEERING CO., LTD.	TAKREER ABU DHABI OIL REFINING CO.	RUWAIS REFINERY EXPANSION PROJECT	Fire and Gas system for Refinery protection based upon Allen Bradley ControlLogix PLC and SAFCO C-LIB Fire Alarm Panel. The system is designed in order to realize a total integrated F&G network and includes Fire & Gas Control Panels, Servers and Touch Screen PC based Mimic Panels. Two central control stations with alarms & faults graphic pages are also provided at Fire Station and Main Control Room. All network nodes are interconnected via redundant fibre optic Ethernet network. DCS and AMS communication are provided via redundant OPC.	€ 3.600.000,00
	<i>SAMSUNG ENGINEERING CO., LTD.</i>	<i>UAE</i>			
2010	ALSTOM (SWITZERLAND) LTD	ALSTOM (SWITZERLAND) LTD	BIRR Alstom Test Center	Design, Supply, Test, Documentation of 1 Gas detection PLC panel with single CPU & power supply & 1 Combustible Gas detection system (Sampling) for GT 26 Gas Turbine type, based upon Rockwell technology with graphic pages. Moreover Safco supplied: conduit, pipes, probes, electrical material and pneumatic materials. Pumps, gas detectors, valves, strobes have been also provided (General Monitors, MEDC, various). Equipment supplied for classified area are in compliance with IEC normative.	€ 80.000,00
	<i>ALSTOM (SWITZERLAND) LTD</i>	<i>Switzerland</i>			
2010	SOCRATE SPA SPA	SONATRACH	Menzel Ledjmet East Project Block 405B, Algeria contract SH-FCP/EPC/2009-06	Design, Supply, Test and Documentation of two (3) Fire & Gas detection control systems based upon 4100U Simplex + redundant modbus communication with DCS + FIELD DEVICES	€ 150.000,00
	<i>SAIPEM</i>	<i>Algeria</i>			
2010	TOZZI SUD SPA	KPO BV	Unit 3 office building and EOPS shutdown/monitoring building	Design, Supply, Test and Documentation of two (2) Fire & Gas detection control systems based upon HIMA H51q/HS PLC SIL3 and Panel View operator interface+ remote mimic panel (tiles type) + redundant modbus communication with DCS	€ 255.000,00
	<i>TOZZI SUD SPA</i>	<i>Kazhaksthan</i>			



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Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2010	SAIPEM	SONATRACH	GNL – 3Z Project Arzew Algeria	b.Design, Supply, Test and Documentation of two (15) Fire & Gas detection control systems based upon 4100U Simplex + redundant TCP/IP modbus communication with DCS + FIELD DEVICES. The systems are in network with optic single fibre Style 7 Class A, interface with extinguishing systems, monitoring and activation up to 1000 I/O . Fire detection is mixed as addressable and conventional safe and hazardous area detection, alerting devices.	€ 1.100.000,00
	<i>SAIPEM</i>	<i>Algeria</i>			
2010	ENEL	SLOVENSKE ELEKTRARNE	Mochovce Power Plant – Completion of Unit 3 and 4	Design, Supply, Test, Documentation, of a Fire Alarm System based upon Siemens Building Technologies Fire Control Unit FC20 Series. The system is composed of six (6) systems for a total of 24 panels CPU's interconnected in a dual (unit 3 and unit 4) optic fibre network Style 7 Class A, ns. 8 HMI graphic stations (graphic pages), 2 interface with extinguishing systems, monitoring and activation up to 1200 fire dampers . Fire detection is mixed as addressable and conventional safe and hazardous area detection, alerting devices. Included Erection and installation at site.	€ 22.000.000,00
	<i>ENEL</i>	<i>Slovakia</i>			
2010	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	GASCO - ABU DHABI GAS INDUSTRIES LTD	HABSHAN-5 Utilities and Offsites	Design, materials, fabrication, inspection & test and supply of the Fire & Gas Detection equipments to be installed in HABSHAN-5 Utilities and Offsites	€ 650.000,00
	<i>HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.</i>	<i>UAE</i>			
2010	GS ENGINEERING & CONSTRUCTION	SAUDI ARAMCO	Manifa Gas Facilities Project	Design, Supply, Test and Documentation of a Fire Alarm System based upon Siemens Building Technologies Fire Control Unit Fire Finder XLS Series.The system is composed of fire panels with relevant addressable detection and signalling devices for safe and hazardous area.	€ 200.000,00
	<i>GS ENGINEERING & CONSTRUCTION</i>	<i>Saudi Arabia</i>			



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Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2009	PIRECO	SIRTE OIL COMPANY	Sweet Condensate Stabilizer Unit Project - Marsa El Brega Plant	Design, supply, test, documentation of a fire and gas detection system based upon Allen-Bradley Control Logix PLC family TÜV - SIL 2, NFPA72 and EN54.2 certified and equipped with Hot back-up CPU, duly integrated with SAFCO C-LIB addressable module and Notifier addressable devices. Fixed Total Flooding FM200 suppression system, designed accordingly NFPA72 2001 codes, main equipment device also UL listed and FM approved are provided.	€ 200.000,00
	<i>PIRECO</i>	<i>Lybia</i>			
2009	ENPPI	BELAYIM PETROLEUM COMPANY (PETROBEL)	NPS Concession Miocene Gas Development PFSE2BIS Project	Infrared HC Gas detectors have been provided complete with the relevant documentaiton and engineering.	€ 50.000,00
	<i>ENPPI</i>	<i>Egypt</i>			
2009	EGYPT MAINTENANCE COMPANY (EMC)	QARUN PETROLEUM	Karama Power Plant	Design, fabrication, testing and supply of Fire Detection System based upon the Addressable Control Panel, SIMPLEX manufacturer, 4100U type and General Monitors Gas detectors and Flame detectors. MEDC Sounder, Warning beacons and Manual Call Point are also foreseen. Interface and interlock with others systems (Pumps Controllers and Fire Protection Systems) have been provided.	€ 150.000,00
	<i>EGYPT MAINTENANCE COMPANY (EMC)</i>	<i>Egypt</i>			
2009	TECHNIP ITALY S.P.A.	NESTE OIL SINGAPORE	Project: 2308- Singapore NExBTL Plant	Design, supply, factory test and documentation of a Fire Detection Alarm System based upon Notifier NFS2-3030 UL/FM and CP 10 compliant fire alarm panels. The panel is connected via fibre optic multi mode ring according to NFPA72 Style 7 Class B. All Fire Panels are complete of back up batteries for 24 hour of operation which are installed inside the cabinet or only for the Main Electrical substation, inside the self standing marshalling. Addressable loops, bells and horns have been also provided.	€ 400.000,00
	<i>TECHNIP ITALY S.P.A.</i>	<i>Singapore</i>			



Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2009	SOCRATE SPA SPA	ENI CONGO	Gas Power Generation for ENI Congo	Design, supply, test and documentation of a F&G Detection System UL, CSA listed or FM approved and in compliance to NFPA 72. Fire detection system is a stand alone Local Fire Alarm Panel connected to DCS System through redundant Modbus RTU communication. Local Fire Alarm panel is based upon the Simplex Grinnell - Tyco 4100U Series addressable UL Listed e/o FM approved control units, complete of power supply unit and battery back-up placed in separated cabinet. Panels are addressable type.	€ 250.000,00
	<i>ABB SPA</i>	<i>Congo</i>			
2008	EUROTECNICA CONTRACTORS AND ENGINEERS SPA	QAFCO	Melamime Project	Design, Supply, Test, Documentation of nr. 2 (two) Autronica Fire Alarm Systems complete of emergency evacuation siren, flame and toxic gas detectors for Melamine Plant to be erected in Mesaieed - Qatar	€ 300.000,00
	<i>EUROTECNICA CONTRACTORS AND ENGINEERS SPA</i>	<i>Qatar</i>			
2008	ALSTOM (SWITZERLAND) LTD	SOCIÉTÉ TUNISIENNE DE L'ÉLECTRICITÉ E DU GAZ	Ghannouch Power Station	Design, Supply, Test, Documentation of 1 Gas detection PLC panel with single CPU & power supply & 1 Combustible Gas detection system (Sampling) for GT 26 Gas Turbine type, based upon Rockwell technology with graphic pages. Moreover Safco supplied: conduit, pipes, probes, electrical material and pneumatic materials. Pumps, gas detectors, valves, strobes have been also provided (General Monitors, MEDC, various). Equipment supplied for classified area are in compliance with IEC normative.	€ 70.000,00
	<i>ALSTOM (SWITZERLAND) LTD</i>	<i>Tunisie</i>			
2008	TECNICAS REUNIDAS S.A.	BOROUGE	Borouge 2 Project at Ruwais	Design, Supply, Test, Documentation of General Monitors and MEDC Gas detectors, horns and strobes.	€ 460.000,00
	<i>TECNICAS REUNIDAS S.A.</i>	<i>UAE</i>			



References List

Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2008	TECNICAS REUNIDAS S.A.	BOROUGE	Borouge 2 Project at Ruwais	Design, Supply, Test, Documentation of Simplex Building and Process Fire Alarm Devices . Flame detectors, call points, heat detectors, horns and strobes have been also provided (General Monitors, MEDC, Federal Signal).	€ 760.000,00
	TECNICAS REUNIDAS S.A.	UAE			
2008	TECNICAS REUNIDAS S.A.	BOROUGE	Borouge 2 Project at Ruwais	Design, Supply, Test, Documentation of 22 Fire & Gas Panels based upon Simplex technology and connected in network system with HMI Graphic Pages. Integration of new F&G communication ring with old systems has been provided. Modbus Communication with DCS Integration, PA and CCTV systems have been also supplied.	€ 700.000,00
	TECNICAS REUNIDAS S.A.	UAE			
2008	SAIPEM PORTUGAL COMERCIO MARITIMO, SU, LDA	ENGRO CHEMICALS PAKISTAN	ENGRO Project	Design, construction, supply, testing and Vendor services for Fire & Gas Detection System based upon AllenBradley ControlLogix PLC equipped with SAFCO addressable C-LIB card. GM gas combustible and Bionics toxic detection devices, fire initiating devices, gas visual/audible alarms, fire visual / audible alarms and building fire & gas panels have been provided. The system is composed of four (4) panels connected into a FO. Network.	€ 400.000,00
	SAIPEM PORTUGAL COMERCIO MARITIMO, SU, LDA	Pakistan			
2008	FOSTER WHEELER ITALIANA SPA	IES MANTOVA	1BD0344A – IES – Raffineria di Mantova	Design, Supply, Test, Documentation of two Fire & Gas systems with redundant PLC (AB, SIL2), General Monitors gas detectors have been also provided.	€ 200.000,00
	FOSTER WHEELER ITALIANA SPA	Italy			



References List

Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2008	AXFLOW S.P.A.	SAUDI ARAMCO	Khurais Crude Contract (KCC)	Design, Supply, Test, Documentation of 4 Stainless Steel 316L cabinets self standing mounting type to install TURNER Oil In Water analyzer and Hastelloy C sampling system in Ex-area Class 1, Zone 2, Group II B T3.	€ 150.000,00
	SNAMPROGETTI MI	Saudi Arabia			
2008	FOSTER WHEELER ITALIANA SPA	IES MANTOVA	1BD0344A – IES – Raffineria di Mantova	Design, Supply, Test, Documentation one Stainless Steel cabinet 316L self standing mounting type including SAFCO SCP pressurizations system to install a BENTLY NEVADA 3500 Series Machinery Protection System in Ex Area Zone 2 IIC T6	€ 50.000,00
	FOSTER WHEELER ITALIANA SPA	Italy			
2008	HYUNDAI ENGINEERING & CONSTRUCTION CO. LTD.	SAUDI ARAMCO	Khurais KGC Plant	Design, Supply, Test, Documentation of a Fire Alarm System based upon Allen Bradley Control Logix PLC and Siemens Building Technologies Fire Control Unit Fire Finder XLS Series. The system is composed of four (4) PLCs and Siemens XLS based local fire panels interconnected by means of redundant Modbus IP communication and connected to redundant central fire servers.	€ 700.000,00
	SNAMPROGETTI MI	Saudi Arabia			
2008	QARUN PETROLEUM CO	QARUN PETROLEUM CO	QPC – Karama Receiving Area	Design, construction, supply, testing and Vendor services for a Fire and Gas Detection System based upon AllenBradley ControlLogix PLC equipped with SAFCO addressable C-LIB card. GM gas combustible and Bionics toxic detection devices, fire detection devices, gas visual/audible alarms, fire visual / audible alarms have been provided.	€ 300.000,00
	QARUN PETROLEUM CO	Egypt			



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Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2007	HACH ULTRA ANALYTICS SA	SAUDI ARAMCO	Khurais Central Processing Facilities (KUC)	Design, Supply, Test, Documentation of 13 Stainless Steel cabinets (316L - Thickness 30/10) self standing mounting type including Air Conditioning Unit model SAFCO AC1400, SCP pressurizations system to install ANATEL TOC analyzer and sampling system in Ex-area Class 1, Zone 2, Group II B T3.	€ 600.000,00
	SNAMPROGETTI MI	Saudi Arabia			
2007	SNAMPROGETTI S.P.A.	SAUDI ARAMCO	Khurais Central Processing Facilities (KUC)	Design, Supply, Test, Documentation of a Fire Alarm System based upon Allen Bradley Control Logix PLC and Siemens Building Technologies Fire Control Unit Fire Finder XLS Series. The system is based upon a redundant fire server complete of graphic pages & alarms. It is composed of 3 PLCs and 11 Siemens XLS based local fire panels interconnected by redundant Modbus IP communication. Addressable detection and signalling devices for safe and hazardous area have been also provided.	€ 1.700.000,00
	SNAMPROGETTI S.P.A.	Saudi Arabia			
2007	SNAMPROGETTI S.P.A.	SAUDI ARAMCO	Khurais KCC Plant	Design, Supply, Test, Documentation of a Fire Alarm System based upon Allen Bradley Control Logix PLC and Siemens Bld. Technologies Fire Control Unit Fire Finder XLS Series. The system is composed of 4 PLCs and 11 Siemens XLS based local fire panels interconnected by redundant Modbus IP communication. The upgrading of redundant fire servers of KUC project portion and graphic pages/alarms have been provided. Addressable detection and signalling devices for safe and hazardous area have been supplied.	€ 1.100.000,00
	SNAMPROGETTI S.P.A.	Saudi Arabia			
2007	NUOVO PIGNONE S.P.A.	PEMEX	PEMEX AKAL-C Platform HP Modules Modernization	Design, supply, factory test and documentation of 4 off TMR F&G systems, based on a programmable logic controller with triple modular architecture to be supplied for the protection of 4 Nuovo Pignone/GE Turbomachinery Modules installed on AKAL-C7 Pemex Platform as part of the HP Modules modernization project.	€ 600.000,00
	NUOVO PIGNONE S.P.A.	Mexico			



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Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2007	NUOVO PIGNONE S.P.A.	ADGAS	Das Island - Feed Gas Compressor	Design, Supply, Test, Documentation of Fire & Gas detection racks to be installed on UCP panel for feed compressor units. The system is based upon the Hima H51-HS family (Redundant CPU – single I/O) TÜV SIL3 certified, CE marked and compliant to NFPA and EN54.	€ 70.000,00
	<i>NUOVO PIGNONE S.P.A.</i>	UAE			
2007	DAELIM INDUSTRIAL CO., LTD.	WAHA PETROLEUM COMPANY	PDH Al Jubail Project - EPC Sahara	Design, Supply, Test and Documentation of a Fire Alarm System based upon Siemens Building Technologies Fire Control Unit Fire Finder MXL Series, Modicon PLC with redundant CPU. The system is composed of eleven (11) fire panels with relevant addressable detection and signalling devices for safe and hazardous area.	€ 280.000,00
	<i>DAELIM INDUSTRIAL CO., LTD.</i>	Saudi Arabia			
2007	TECNIMONT S.P.A.	WAHA PETROLEUM COMPANY	PP & Utilities Al Jubail EPC Sahara	Design, Supply, Test and Documentation of a Fire Alarm System based upon Siemens Building Technologies Fire Control Unit Fire Finder MXL Series and Modicon PLC with redundant CPU. The system is composed of eleven fire panels with relevant addressable detection and signalling devices for safe and hazardous area. Three (3) extinguishing systems based upon NOVEK have been also provided.	€ 580.000,00
	<i>TECNIMONT S.P.A.</i>	Saudi Arabia			
2007	SNAMPROGETTI FANO	SAUDI ARAMCO	Qurayyah	Design, Supply, Test, Documentation of a Fire Alarm System based upon Notifier Fire Control Unit NFS640. The system is composed of twenty-nine (29) panels interconnected by means of an optic fibre network and relevant addressable detection and signalling devices for safe and hazardous area. Graphic pages and Redundant Modbus communication have been also provided.	€ 600.000,00
	<i>SNAMPROGETTI FANO</i>	Saudi Arabia			



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Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2007	TECNIMONT S.P.A.	QATAR CHEMICAL COMPANY II LTD	HDPE-NAO Mesaieed (QA) EPC - Chem II Ethyl. Derivatives Project	Design, supply, factory test and documentation of a Fire & Gas system PLC based complete with SAFCO addressable C-LIB card. The system is composed of two (2) main Allen Braldray Control Logix PLC and 4 remote IO. The system is connected in an optic fibre network with four (4) SCADA systems.	€ 1.650.000,00
	<i>TECNIMONT S.P.A.</i>	<i>Qatar</i>			
2007	NUOVO PIGNONE S.P.A.	SHELL PEARL	Power Generation for GTL Plant - Ras Laffan	Design, Supply, Test, Documentation of six (6) Fire & Gas detection panels based upon Allen-Bradley ControLogix PLC SIL2 Operator interface has been realized via Panelview Plus Touch Screen. Modbus communication is provided.	€ 165.000,00
	<i>MW KELLOG LTD</i>	<i>Qatar</i>			
2007	ISG SPA	PETROCHINA INTERNATIONAL JABUNG LTD.	PLC system Betara Complex Development	Design, Supply, Test, Documentation of a 316 stainless steel outdoor control and electric panel NEMA4X Class I, Div. 2 with PLC including Redundant CPU, PS, Com module and single I/O system.	€ 60.000,00
	<i>ISG SPA</i>	<i>China</i>			
2007	SIEMENS SPA	PIETROVIETNAM	Vietnam	Design, Supply, Test, Documentation of a 304 stainless steel pressurized panel ASI060 EEx d IIC T3 ATEX 94.9 CE suitable for Zone 2. Degree of protection IP 65 (as for NORMA EN 6052. Purge Solutions' pressurization control system (Cyclops and VORTEX air conditioning have been provided.	€ 50.000,00
	<i>SIEMENS SPA</i>	<i>Vietnam</i>			



References List

Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2007	SIEMENS SPA	ESCAVROS	Escavros - Nigeria	Design, Supply, Test, Documentation of a 304 stainless steel pressurized panel ASI013N EEx p suitable for installation in hazardous area Class1, Division 2, T3 as for NEC (Group B,C,D, Temp. Class T3). Protection as for NEMA 4x (Nec Regulations). SAFCO A/C 1400W and Purge Solutions' pressurization control system (Cyclops) have been also supplied.	€ 50.000,00
	<i>FOSTER WHEELER</i>	Nigeria			
2007	INVENSYS SYSTEMS ITALIA S.P.A.	TASNEE PETROCHEMICALS	LDPE & HDPE Al Jubail Project	Design, Supply, Test and Documentation of a Fire Alarm System based upon MINIMAX FMZ5000 series connected to TRICONEX PLC (out of our scope) via redundant Modbus TCP/IP. The system is composed of nine (9) local fire panels with relevant addressable detection and signalling devices for safe and hazardous area.	€ 450.000,00
	<i>TECNIMONT MI</i>	Saudi Arabia			
2007	SOCRATE SPA SPA	EDISON SPA	Gas Pipeline Cavarzere-Minerbio, Minerbio station (BO)	Design, Supply, Test and Documentation of a natural gas receiving station where a complete quality analysis system has been supplied. The scope consists of NG chromatograph, oxygen, hydrocarbon dew point, moisture, density and total sulphur analysers, in redundant configuration, complete with a common sampling system, all installed in a shelter with SAFCO 1400W redundant A/C.	€ 50.000,00
	<i>SNAMPROGETTI FANO</i>	Italy			
2007	SOCRATE SPA SPA	SAMIR REFINERY	UV Photometric Analyzer with Containing Cabinet	Design, Supply, Test, Documentation of a 316 stainless steel cabinet to install Ametek model 930 sulphur pit analyzer and suitable for IIB T3 hazardous area. SAFCO A/C 1400 has been also supplied.	€ 50.000,00
	<i>SNAMPROGETTI MI / FOSTER WHEELER</i>	Morocco			



References List

Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2007	PETRORABIGH	PETRORABIGH	Rabigh Utilities and Offsites Umbrella Project (UOU)	Design, Supply, Test and Documentation of several Fire & Gas detection systems. They are composed of Allen-Bradley ControlLogix PLC equipped with redundant CPU, Power Supply Units and/or Simplex Fire Control Units, relevant Addressable Devices, MEDC MCP & alerting devices. General Monitors combustible gas detectors are included in the scope of supply as well.	€ 1.400.000,00
	<i>FOSTER WHEELER ENERGY LTD</i>	<i>Saudi Arabia</i>			
2007	SYSTEMS AND EQUIPMENT	GASCO - ABU DHABI GAS INDUSTRIES LTD	New Liquid Sulphur Sump/Unit 50&51	Design, Supply, Test, Documentation of two (2) H2S & SO2 Analyzer installed in cabinet ATEX II2G. SAFCO A/C 1400 Explosion Proof and electric components suitable for installation in Zone 2 IIA/IIB T3 hazardous area have been also supplied.	€ 50.000,00
	<i>BABCOCK B.S.</i>	<i>UAE</i>			
2007	YOKOGAWA FRANCE	SAMIR	Fire & Gas detection system	Design, Supply, Test and Documentation of twelve (12) Building Fire detection systems based upon Simplex Fire Control Units and relevant Addressable Devices.	€ 325.000,00
	<i>SNAMPROGETTI MI</i>	<i>Morocco</i>			
2007	SYSTEMS AND EQUIPMENT	GASCO - ABU DHABI GAS INDUSTRIES LTD	NGL feed into Tains - Ruwais	Design, Supply, Test, Documentation of a walk-in Analyzer House & Analyzers complete with relative sample conditioning systems, HVAC, F&G and safeguarding system.	€ 250.000,00
	<i>GASCO - ABU DHABI GAS INDUSTRIES LTD</i>	<i>UAE</i>			



References List

Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2006	AMCS	ENOC	Naphtha Hydrotreater Reformer - Fire & Gas System and Fire & Gas Field Devices	Design, Supply, Test and Documentation of Fire & Gas detection systems based upon Telemecanique PLC. General Monitors gas detectors are included as well.	€ 340.000,00
	<i>FOSTER WHEELER ENERGY LTD</i>	UAE			
2006	SNAMPROGETTI S.P.A.	ENI	Refinery San Nazzaro de Burgondi (PV) Rose Solvent Deasphalting plant	Design, Supply, Test and Documentation of a Fire & Gas detection system based upon Allen-Bradley ControlLogix PLC SIL2 equipped with Redundant CPU & Power Supply.	€ 100.000,00
	<i>SNAMPROGETTI S.P.A.</i>	Italy			
2006	NUOVO PIGNONE S.P.A.	HYUNDAI-KNPC	New Ethane Recovery Plant Kuwait	Design, Supply, Test, Documentation of four (4) Fire & Gas detection panels Hima H51-HS family (Redundant CPU – single I/O) TÜV SIL3 certified, CE marked and compliant to NFPA and EN54. Operator interface has been realized via Panelview Plus Touch Screen.	€ 160.000,00
	<i>NUOVO PIGNONE S.P.A.</i>	Kuwait			
2006	NUOVO PIGNONE S.P.A.	SONATRACH	Skikda Mr Train Algeria	Design, Supply, Test, Documentation of two (2) Fire & Gas detection control system based upon Allen-Bradley ControlLogix PLC equipped with redundant CPU & Power Supply Units. Operator interface has been realized via Panelview Plus Touch Screen.	€ 100.000,00
	<i>NUOVO PIGNONE S.P.A.</i>	Algeria			



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Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2006	SARTEC	N/A	Continuous Emission Monitoring System - PR China	Design, Supply, Test, Documentation of a panel ASI075 for GC analysis system (Syntec S.) with internal source (EEx p) II3G	€ 40.000,00
	<i>SARTEC</i>	<i>China</i>			
2006	TECHNIP ITALY S.P.A.	TAKREER ABU DHABI OIL REFINING CO.	ULG/LSGO Project Ruwais	Design, Construction, Supply, Test, Documentation and Site Start Up activities of the upgrading of the Ruwais Fire Network based upon Simplex 4100/4120 Fire Panels and Redundant Graphic Centre in Fire Station. Modibus Communication with DCS has been also provided.	€ 400.000,00
	<i>TECHNIP ITALY S.P.A.</i>	<i>UAE</i>			
2006	SOCRATE SPA SPA	ERG	Raffineria ISAB Impianti Sud	Design, Supply, Test, Documentation of a Toxic Gas detection system based upon Allen-Bradley ControlLogix PLC and General Monitors H2S Detectors.	€ 100.000,00
	<i>ERG</i>	<i>Italy</i>			
2006	SRA INSTRUMENTS	SARPOM	Analyzers shelter	Design, Supply, Test, Documentation of two (2) panels ASI060 for GCs analysis systems (Agilent) with internal source (EEx p) II2G	€ 70.000,00
	<i>SRA INSTRUMENTS</i>	<i>Italy</i>			



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Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2006	SNAMPROGETTI S.P.A.	SAUDI ARAMCO	Khursaniyah Producing Facilities	Design, Supply, Test, Documentation of a Fire Alarm System based upon Siemens Building Technologies Fire Control Unit Fire Finder XLS Series. The system is composed of 14 panels interconnected by means of an optic fibre network and relevant addressable detection and signalling devices for safe and hazardous area. Operator workstation complete of graphic pages & alarms have also been provided. Modbus communication to DCS also foreseen.	€ 1.400.000,00
	<i>SNAMPROGETTI S.P.A.</i>	<i>Saudi Arabia</i>			
2006	TECNIMONT S.P.A.	NATPET	Natpet PP/OSBL - Yanbu	Design, Supply, Test, Documentation of a Fire Alarm System based upon Siemens Building Technologies Fire Control Unit Fire Finder XLS Series. The system is composed of six (6) panels interconnected by means of an optic fibre network and relevant addressable detection and signalling devices for safe and hazardous area. Mimic Panel and Redundant Modbus communication have been also provided.	€ 300.000,00
	<i>TECNIMONT S.P.A.</i>	<i>Saudi Arabia</i>			
2006	SOCRATE SPA SPA	CANADIAN NATURAL RESOURCES	Oil Sands Project	Design, Supply, Test, Documentation of a Fire Alarm System based upon Siemens Building Technologies Fire Control Unit Fire Finder XLS Series and relevant addressable detection and signalling devices for safe and hazardous area. Modbus communication has been also provided.	€ 100.000,00
	<i>TECHNIP ITALY</i>	<i>Canada</i>			
2006	SNAMPROGETTI S.P.A.	ENI REFINING & MARKETING	Rose Deasphalting - Sannazaro Refinery	Design, Supply, Test, Documentation of a Fire & Gas Devices General Monitors combustible and toxic gas detectors and UV/IR flame detectors. The system includes visual/audible devices, MAC and HF Gas Detector.	€ 150.000,00
	<i>SNAMPROGETTI S.P.A.</i>	<i>Italy</i>			



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Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2006	NUOVO PIGNONE S.P.A.	BRUNEI LNG SDN BHD	Brunei LNG	Design, Supply, Test, Documentation of a Fire & Gas detection system based upon Honeywell FSC PLC SIL3 for Gas Turbine Application.	€ 230.000,00
	<i>NUOVO PIGNONE S.P.A.</i>	<i>Brunei</i>			
2006	JGC CORPORATION	SAUDI ARAMCO	Hawiyah NGL Recovery Plant	Design, Supply, Test, Documentation of a Main Fire Alarm System based upon Siemens Building Technologies Fire Control Unit MXL Series and NCCT. The system is composed of local panels interconnected in an optic fibre network and two operator Interface PCs based graphic station to supervise the whole system.	€ 330.000,00
	<i>JGC CORPORATION</i>	<i>Saudi Arabia</i>			
2006	SRA INSTRUMENTS	ENI TECNOLOGIE	DME Pilot plant	Design, Supply, Test, Documentation of panels ASI144 for GC analysis system (Agilent) with internal source (EEx p) II2G	€ 60.000,00
	<i>SRA INSTRUMENTS</i>	<i>Italy</i>			
2006	SNAMPROGETTI S.P.A.	GASCO - ABU DHABI GAS INDUSTRIES LTD	Ruweis 3RD NGL Train - Fence Protection	Design, Supply, Test, Documentation of a Combustible and Toxic Gas detection system composed by Explosion Proof Gas Local Panels and General Monitors Combustible and H2S Detectors. The system includes also an UPS for 24h stand-by power.	€ 170.000,00
	<i>SNAMPROGETTI S.P.A.</i>	<i>UAE</i>			



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Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2006	NUOVO PIGNONE S.P.A.	CB & I	Cove Point Expansion	Design, Supply, Test, Documentatio of two (2) Fire & Gas detection control system based upon Allen-Bradley ControlLogix PLC and Panel View operator interface.	€ 85.000,00
	NUOVO PIGNONE S.P.A.	USA			
2005	DOTT. ING. SCANDURA & FEM	SAUDI ARAMCO	Laboratory	Design, Supply, Test, Documentation of a safety valves calibration bench MOD. 1700	€ 40.000,00
	DOTT. ING. SCANDURA & FEM	Saudi Arabia			
2005	SNAMPROGETTI S.P.A.	SAUDI ARAMCO	Gas Treat & Compression Facilities at Hawiyah NGL Recovery Plant	Design, Supply, Test, Documentation of a Fire Alarm System based upon Siemens Building Technologies Fire Control Unit MXL Series. The system is composed of eleven (11) panels interconnected in an optic fibre network and relevant addressable detection and signalling devices for safe and hazardous area. Operator Interface PC based graphic station is also provided to supervise the whole system.	€ 850.000,00
	SNAMPROGETTI S.P.A.	Saudi Arabia			
2005	PETROJET	G.P.C.	North & South Amer	Design, Supply, Test, Documentation of two (2) Fire Alarm Systems based upon Allen-Bradley Control Logix PLC SIL 2. The system is composed of two panels and two engineerin/operator workstation complete of graphic pages and alarms. Modbus communication is provided.	€ 700.000,00
	PETROJET	Egypt			



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Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2005	S.C.A.E.	N/A	MT/bt transformer cabinet	Design, Supply, Test, Documentation of a SCP (EEx p) pressurization control system applied to a MT/bt trafo cabinet. CE certificate with O.N. (CESI) for IM2 product.	€ 50.000,00
	S.C.A.E.	N/A			
2005	AMCS	SAUDI ARAMCO	CCR Platformer and LSRN Isomerization Projects - Yanbu	Design, Supply, Test, Documentation of a Fire Alarm System based upon Siemens Building Technologies Fire Control Unit MXL Series. The system is composed of five (5) panels interconnected in an optic fibre network Style 7 Class A. Panels are manufactured in accordance with Saudi Aramco standard 34-SAMSS-820.	€ 250.000,00
	SNAMPROGETTI MI	Saudi Arabia			
2005	SOCRATE SPA	SARAS	Sulphur treatment and recovery	Design, Supply, Test, Documentation of a Cabinet containing an H2S (Thermox) analysis system in process gas with SAFCO air conditioning unit (EEx d).	€ 70.000,00
	SOCRATE SPA	Italy			
2005	NUOVO PIGNONE S.P.A.	GASCO - ABU DHABI GAS INDUSTRIES LTD	Onshore Gas Development Phase III (OGD III)	Design, Supply, Test and Documentation of eight (8) Fire & Gas detection control systems based upon Allen-Bradley ControlLogix PLC SIL2 and Panel View operator interface.	€ 100.000,00
	EASTERN BECHTEL LTD.	UAE			



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Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2005	NUOVO PIGNONE S.P.A.	PETROBRAS	F.P.S.O.P.P. de Moraes	Design, Supply, Test, Documentation of a Fire & Gas and turbine enclosure ventilation control system based upon Allen-Bradley Control Logix PLC.	€ 75.000,00
	NUOVO PIGNONE S.P.A.	Brasil			
2005	PETER BROTHERHOOD	EXXON MOBIL	GHF900 Make up compressor K-901	Design, Supply, Test, Documentation of a reciprocating compressor Local Control Panel, ASI500 (EEx p) II3G with relay logic	€ 190.000,00
	PETER BROTHERHOOD	Italy			
2005	SOCRATE SPA SPA	SAUDI ARAMCO	DHT Complex at Riyadh Refinery	Design, Supply, Test, Documentation of a Fire Alarm System based upon Allen-Bradley Control Logix PLC and Notifier Addressable Fire Control Unit. The system is composed of two (2) local panels and one engineerin/operator workstation complete of graphic pages and alarms. Modbus communication is provided. Panels are manufactured in accordance with Saudi Aramco standard 34-SAMSS-820.	€ 220.000,00
	TECHNIP	Saudi Arabia			
2005	NUOVO PIGNONE S.P.A.	PETROBRAS	FPU Petrobras 52	Supply, Test, Documentation of a Combustible Gas Detection System based upon General Monitors Infrared Gas Detectors IR2100.	€ 50.000,00
	NUOVO PIGNONE S.P.A.	Brasil			



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Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2004	AMCS	SAUDI ARAMCO	CCR Platformer and LSRN Isomerization Projects - Yanbu	Supply, Test and Documentation of a Combustible & Toxic Gas Detection System based upon General Monitors Catalytic Gas Detectors and Semiconductor H2S Detectors. The system includes audible/visual alarms explosion proof.	€ 150.000,00
	<i>SNAMPROGETTI LTD</i>	<i>Saudi Arabia</i>			
2004	SNAMPROGETTI S.P.A.	SAUDI ARAMCO	Ain Dar & Shedgum Seawater Conversion Project	Design, Supply, Test, Documentation of a Fire Detection system. The system is based upon a NOTIFIER addressable panels UL listed, and MEDC audible and visual alarms. Modbus communication is provided to DCS. Panels are manufactured in accordance with Saudi Aramco standard 34-SAMSS-820.	€ 250.000,00
	<i>SNAMPROGETTI S.P.A.</i>	<i>Saudi Arabia</i>			
2004	NUOVO PIGNONE S.P.A.	BASRAH PETROCHEMICAL	Basrah Iraq - MS 5001 Gas Turbine Enclosure	Design, Supply, Test, Documentation of a Fire detection system to be installed in the UCP Panel for a Gas Turbine protection. The system is based upon a General Monitors O2 series modules.	€ 100.000,00
	<i>NUOVO PIGNONE S.P.A.</i>	<i>Iraq</i>			
2004	SNAMPROGETTI LUMUS GAS LTD	CSPC NANHAI PETROCHEMICAL	CSPC Nanhai Petrochemical Project	Design, Supply, Test, Documentation of a Fire detection system to be installed in the CSPC NANHAI PETROCHEMICAL PROJECT. The system is based upon MEDC manual call point, alarm sounder, buzzer with flasher; SYSTEM SENSOR ionization smoke detector CCC approved.	€ 100.000,00
	<i>TECNIMONT MI</i>	<i>China</i>			



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Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2004	Sadra-Samsung	NIGC	South Pars Phase I	Design, Supply, Test, Documentation of a Fire & Gas System for South Pars Phase I Project. Smoke, Heat, Gas Detectors have been provided. For classified area, all the equipment has been supplied as per ATEX Normative. The project is executed according to EN 54 standards.	€ 60.000,00
	Sadra-Samsung	Iran			
2004	SNAMPROGETTI SUD	ENI / AGIP	Raffineria di Gela Impianto Desolfurazione benzine	Design, Supply, Test, Documentation, Commissioning & Start-up of a Gas Detection System based upon Crowcon Combustible and Toxic Gas Detectors and Gasmonitor plus control system.	€ 150.000,00
	SNAMPROGETTI SUD	Italy			
2004	NUOVO PIGNONE S.P.A.	ENAGAS INTECSA-INARSA	Pipeline Baneras Ph.2	Design, Supply, Test, Documentation of a Fire & Gas detection system to be installed in the UCP Panel for a Gas Turbine protection. The system is based upon a General Monitors 02 series modules and high temperature gas sensors. Modbus communication is provided.	€ 80.000,00
	NUOVO PIGNONE S.P.A.	Spain			
2004	DNSL	CHEVRON NIGERIA	Chevron Nigeria South Offshore water injection project	Design, Supply, Test, Documentation of a Fire & Gas detection system including Fire and Gas Panel and Field Mounted Detection Devices, based upon General Monitors 02 series modules for gas detectors, Siemens/Pyrotronics System 3 Fire Panel & Detectors and MEDC alerting devices.	€ 440.000,00
	KYE LTD	Nigeria			



References List

Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2004	SNAMPROGETTI SUD	ENI REFINING & MARKETING	FCC Gasoline Desulphurization	Design, Supply, Test, Documentation of a Fire & Gas system with redundant PLC (AB, SIL2) for q.ty 20 combustible gas detectors and q.ty 12 toxic gas detectors.	€ 300.000,00
	SNAMPROGETTI SUD	Italy			
2004	SNAMPROGETTI SUD	ENI E&P DIVISION	Raffineria San Nazzaro (PV) Impianto desolfurazione benzine	Design, Supply, Test, Documentation of a Fire & Gas detection system based upon Allen-Bradley ControlLogix PLC SIL2, General Monitors combustible and toxic gas detectors and UV/IR flame detectors. The system includes visual/audible devices, MAC and heat sensible cable.	€ 600.000,00
	SNAMPROGETTI SUD	Italy			
2004	ZELLWEGER ANALYTICS	ESSO ITALIANA	Raffineria di Augusta	Design, Supply, Test, Documentation of an Allen-Bradley PLC Based Gas Detection Control Unit installed in an Ex-proof enclosure and complete of Local visual and audible alarms.	€ 30.000,00
	FOSTER WHEELER ITALIA	Italy			
2004	SOCRATE SPA SPA	TECHNIP	Expansion Refinery	Design, Supply, Test, Documentation of an Analyzer Local Cabinet for H2S analysis system (Ametek) in process gas, with SAFCO air conditioning unit (EEx d). (Q.ty 2) Analyzer Local Cabinets for H2S analysis systems (Ametek) in process gas, ASI230 (EEx p) I12G	€ 70.000,00
	SOCRATE SPA	Greece			



References List

Year	Customer/Main Contractor	End User	Project	Supply Description	Value (EUR)
2004	FORES ENGINEERING	ENI / AGIP	Piattaforma Garibaldi B	Supply, Test, Documentation of Fire & Gas Detectors based upon General Monitors UV/IR Flame and Catalytic Gas Detectors.	€ 30.000,00
	FORES ENGINEERING	Italy			
2004	FORES ENGINEERING	ENI / AGIP	Piattaforma Regina	Supply, Test, Documentation of Fire & Gas Detectors based upon General Monitors UV/IR Flame and Catalytic Gas Detectors.	€ 40.000,00
	FORES ENGINEERING	Italy			
2004	HYDRO DRILLING INTERNATIONAL	AIR LIQUIDE		Design, Supply, Test, Documentation, Commissioning & Start-up of a Carbon Dioxide Gas Detection System based upon General Monitors IR 7000 Infrared Gas Detector and MC 600 control modules.	€ 35.000,00
	HYDRO DRILLING INTERNATIONAL	Italy			