

AURORA WORKS

WE ARE READY TO WORK TOGETHER

■ TANK PROTECTION DEVICES

■ FLOW

■ VALVE & ACTUATOR

■ PRESSURE

■ FILTRATION

■ TEMPERATURE

■ CONTROL SYSTEM

■ MOTOR & HEATER

■ ELECTRICAL

■ CALIBRATION & TRAINING



T. 66 2815-5114 F. 66 2815-6128 | info@aurora-works.com | <http://www.aurora-works.com>



Aurora Works Co., Ltd.

Overview:

With more than 15 years' experience for engineering team, Aurora Works Co., Ltd. is a market leader in the following field;

- Supply Tank Protection Devices, Instrumentation & Valves.
- Support a wide range of industries from manufacturing to process control integrators.

Industrial Applications include:

- Power plant, Cogeneration Plants
- Petrochemical
- Chemical Processing
- Automotive Manufacturing
- Food and Beverage
- Cement Industries
- Oil & Gas; Crude and Product Tank Farms
- Refinery
- Pulp & Paper
- Water & Water Treatment
- Steel and Metal.
- Pharmaceutical
- A system integrator and Lump Sum Turn Key Project for Plant Automation System, Instrumentation process control system, SCADA /DCS, Fire & gas detection, etc.
- Service; Trouble Shooting, Calibration, Commissioning Start Up.
- Training Courses for latest technology to customer.

In addition, we support the expansion of industry in the Eastern Part of Thailand, we, Aurora Works Co., Ltd. have established Rayong Workshop Center to provide customer with fast, effective and efficient services.

OUR CUSTOMERS





KSPC / KOREA

TANK PROTECTION API 2000

Pressure / Vacuum Relief Valve

The Pressure / Vacuum Relief Valve is designed to protect low pressure storage tank from excessive pressure or vacuum created by thermal expansion [and contraction] and product movement into [out of] the tank and at the same time minimizing costly product evaporation / loss.



Flame Arrester

The most straight-forward protection device against Flame propagation is a Flame Arresters as country and local air quality regulation become more stringent.



Emergency Vent Covers

The Emergency Vent Valve and manhole cover open to greatly Increase the venting capacity of petroleum storage tanks when the internal pressure rises above the set point.



Rupture Disk & Explosion Panel & N2 Blanketing Valve

N2 Blanket gas controller helps gas pressure to maintain in constant state in the vapor space of storage Tanks.



Gauge Hatch & Slot Dipping Devices

The KSPC's Sampling and Gauging Hatch Cover are designed to provide quick access for product gauging, temperature measurement or sampling.



Model_ KSSD

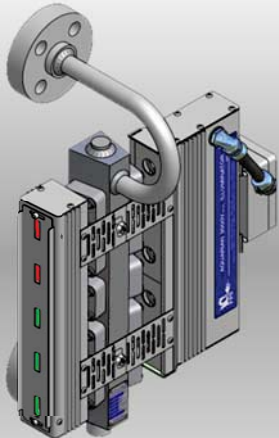
Model_ T2000-TSS-01



FOSSIL / CANADA

HIGH PRESSURE & TEMP For Power - plant

AQUARIAN 3000Visual Ported Bi-Color Gauge Glass



REMOTE DISPLAY
(CONTROL ROOM)



ELECTRONIC UNIT
TYPICALLY 5-12 PROBES
(UP TO 48 PROBES)



PROBE COLUMN

Aquarian 3000Visual Bi-Colour Water Level Gauge

The **Aquarian 3000Visual** is a 3000 psi ported gauge that produces a red/green image to indicate the water level in a high pressure steam drum. The body is precision machined into a trapezoidal shape. Light projected through steam produces a red image. Light projected through water is refracted (bent) and produces a green image. The gauge fulfills the requirements in the 2001 ASME Boiler and Pressure Vessel Code Section 1 PG-60.1.



Aquarian 3000Mini

The **Aquarian 3000Mini** represents the latest advancement in electronic water level detection for satisfying basic water level indication needs for boiler drums, feedwater heaters and other liquid level applications. The Aquarian 3000Mini is comprised of three major components: the water column with vacuum brazed water detection probes, the electronic Detection and Verification (D&V) unit and the remote LED display.



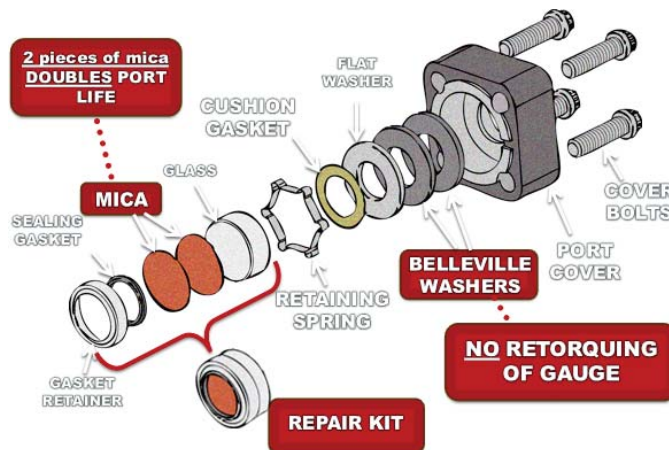
High Integrity Brazed Joint Probe

"Once And You're Done"

Building on the success of the Aquarian brazing technology, Fossil has developed replacement probes for Clark-Reliance™ models ZG, FG, V and T gasketed probes. This brazing technology is well proven with over 60,000 Aquarian probes in service worldwide.



PORTED GAUGE COMPONENTS



Pressure switches

Delta Controls is a leader in the design and manufacture of robust, reliable and competitively priced compact, Industrial and high performance switches- internationally approved for use in hazardous areas for safety alarm and Shutdown applications.

Based on proven technology, switch products can operate at high and low pressures and are designed to satisfy site classification and all significant industry approvals.



Pressure transmitters

Delta Controls analogue and digital pressure transmitters are repeatedly specified because of their compact size rugged design and high standard specification.

Delta's pressure transmitter range includes absolute, differential and gauge designs, with analogue or digital outputs. High pressure and best in class accuracy can satisfy even the most demanding pressure applications over a wide temperature range.



Temperature solutions

Delta Controls offer a comprehensive range of quality assured temperature measurement devices that meet the highest recognized standards across many industries including food, pharmaceutical, oil and gas storage and power generation. Every product is designed and manufactured to offer a combination of maximum performance and minimal maintenance.



Delta Controls range of vortex shedding flow transmitters feature compact designs with no moving parts, offering high accuracy with exceptional reliability and repeatability. Customers benefit from an aftermarket recalibration service to minimise long-term cost of ownership.





BARTON FIRTOP / UK

STRAINER - PORTFOLIO

150-300LB Quick Release Basket



600LB Q/R Basket



Bolted Cover



Fabricated Basket



150-300LB Quick Release Basket



The **150-300LB Basket Strainer**, also known as Mono-in-line Strainer, is designed for the efficient removal of solid/foreign material from flowing liquids & gases.

Our **Quick Release** range of **Basket Strainers** are manufactured to **PED/97/23/EC** with end connections machined to recognized International Standards such as ASME B16.5.

Advantages of Basket Strainers over Y-Type Strainers

- Debris contained in basket
- Quick Release closure for easier maintenance
- Larger filtration area/Dirt holding capacity

Barton Firtop's Basket Strainers offer a **LARGER** filtration area than similar strainers on the market, ensuring minimal pressure loss, improved flow-rates & greater dirt holding capacity, leading to longer service/ maintenance intervals.



Conical Strainers



Socket Weld Y-Type



Supplied in Red Oxide Primer as Standard

Flanged Y-Type



Duplex 'Firplex' Strainer

TECHNICAL / ITALY

SAFETY VALVE SOLUTION



30000 SERIES

Safety valves 30000 Series: suitable for vapours, gases and liquids. These are full nozzle, full lift and spring-loaded valves compliant with API 526 standard, certified under PED, ASME VIII Div.1 and EAC.



30000P HIGH EFFICIENCY

High Efficiency Pilot operated safety valve: suitable for vapours, gases and liquids. They can operate with high back pressure values and can grant tightness in accordance with API 527 up to 95% of set pressure. Pilot is equipped with a blowdown adjustment device.



20000 SERIES

Safety valves 20000 Series: available with threaded or flanged connections up to 1", suitable for vapours, gases and or liquids with set pressure up to 1500 bar. These valves are both PED and EAC certified for all fluids and certified under ASME VIII Div. 1 for gases and vapours device.



10000 SERIES

Safety valves 10000 Series: available with threaded or flanged connections up to 2", suitable for vapours, gases and liquids. These valves are both PED and EAC certified for all fluids and certified under ASME VIII Div. 1 for gases and vapours.



4000 SERIES

Relief valves 4000 Series: available with threaded or flanged connections up to 2", suitable for liquid fluids. They are especially recommended for the protection of dosing/metering pumps. These valves are both PED and EAC certified.



SV 5001 SERIES

Safety valves SV 5001 Series: available with 1/2" threaded connections, suitable for vapours, gases and liquids and for protection of low flow rate pumps. These valves are PED certified.



SV 10001 SERIES

The safety valves series SV 10001 are made of stainless steel SS 316L and of superalloys. Connections 1/4", the adjustable outlet connection.





Thermocouples

SKS Sensors® thermocouple sensor produces a mV measuring signal, which is proportional to temperature depending on which TC type is used.

The sensor is a standard-type RTD or TC temperature sensor (no ATEX/IECEX requirements)

The connection hood is a standard-type, IP 65-protected hood, with a protective earth connection screw (no ATEX/IECEX requirements)

The whole circuit must be designed as an intrinsically safe Ex i circuit (cable length, ATEX/IECEX transmitters, ATEX/IECEX barriers).



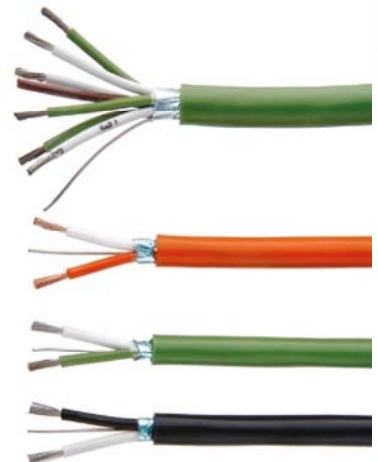
Amazing Long-Range Signal

LoRa transmission technology has a 15 km range outdoors, and the signal also transmits well indoors and even below ground. Being highly tolerant of interference, it suits demanding environments



Stock items of compensating cables

Thermocouple sensors must be wired with right kind of materials between hot and cold junctions, in order to avoid measurement deviation caused by thermo voltages in connections of different materials. Cable types used are extension wires (X) or compensating cables (C).



MOTOR & HEATER & FILTER

Electric air heaters

The heating coils with integrated electrical heating elements, flange frame or fixing plate as well as casing for electrical connections are laid out and assembled according to the customer's specifications and operating manual.

Materials are made of steel or stainless steel according to customer's instructions.

A higher thermal efficiency is attained using a specific surface load (pa), which is optimally adjusted to the operating conditions.



Air blower heaters

Explosion protected air heaters are used for warming the air space in explosion hazardous areas, e.g. in the petrochemical, chemical and pharmaceutical industries, crude oil and natural gas production, in paint and varnish industry storage spaces as well as for general use in fire hazardous production facilities.

A heating coil and ventilator both of explosion proof design are installed in a duct shaped housing.



Immersion heaters

Immersion heaters serve for heating of fluids, air or gas. They are components of machinery and plants, or mounted into tanks or vessels.

According to the individual requirements of our customers, ELMESS-Thermosystemtechnik is offering customised immersion heaters.

They are designed and manufactured in high quality industrial design or in explosion proof design according ATEX. This guarantees a maximum of reliability, safety and long lifetime for your plants.





MAX MÜLLER AG / SWITZERLAND

Process illumination and visual observation systems

Stainless light fitting for hazardous areas

These two series of classical, yet innovatively developed and uniquely powerful light fittings for use in hazardous areas have laid the base for MAX MUELLER's success in this field. Their robust design, the variety of fixation modes and the important range of options make them a sophisticated tool to light out all kind of process equipment, even for very demanding applications. The 100 deH type with 100 W power is actually the most powerful halogen type vessel light fitting classified in T4 available on the market.



Stainless steel sightglass light fitting for safe areas

- Universal use on different sightglass types due to very small dimensions
- Ideal for application, sight and light through one sightglass
- Power from 2 to 100 W, supply voltages from 12 up to 240 V
- Halogen or LED version



Half-light fittings for safe areas

- For application, sight and light through one sightglass''
- Power from 2 to 100 W, supply voltages 12 and 24 V
- Halogen or LED version
- For use with momentary push button, ON-OFF''-switch as well as For continuous operation (depending on type and power)
- From stainless steel for sightglasses similar to DIN 11851 (series HLMR)



MANWAYS

Reflex Liquid Level Gauge

Simco Reflex liquid level gauges are designed to operate based on the difference in the refractive indices of liquid and vapour. The liquid flows through the gauge chamber behind the viewing glass located on only one side of the instrument and which is clamped to the gauge body. The viewing glass is made from toughened borosilicate glass and has prismatic right-angled grooves on the side facing the liquid and vapour space.



Magnetic Liquid Level Gauge

Magnetic liquid level gauges can be used for measuring either total or interface level and offer an alternative solution to traditional reflex / transparent gauges. Accessories such as switches / transmitters can be supplied and fitted to this type of gauge and it is not necessary to have isolation valves as there is no glass to break.

Reflex & Transparent Gauges

Simco Reflex liquid level gauges are designed to operate based on the difference in the refractive indices of liquid and vapour. The liquid flows through the gauge chamber behind the viewing glass located on only one side of the instrument and which is clamped to the gauge body. The viewing glass is made from toughened borosilicate glass and has prismatic right-angled grooves on the side facing the liquid and vapour space.



Isolation Valves

Simco isolation valves have been specifically designed for use with liquid level gauges and are available in a variety of materials suitable for temperature and pressure ranges to meet most specifications. Valves are available in both straight and offset pattern designs and have a selection of vessel and gauge connections to fit a variety of mounting requirements.

FLOW METER LIQUID & GAS

- Orifice Flow meter

- Liquid turbine flow

- Ultrasonic Flow Meter

- Turbine flow meter

- Gas turbine flow meter

- Electromagnetic Flow

- **COA Series :**
- **Orifice Flowmeter**

They measure liquids and gases by using the Pressure Difference. They can be used in high temperature and high pressure. It is easy to operate and maintain the flow- meter if you use it together with valve or alarm.



- **CU-100 Series :**
- **Ultrasonic Flow Meter**

- Linearity: 0.5%,
- Repeatability: 0.2%,
- Accuracy: 1%
- Easy to operate
- Several type transducers for selection, measuring pipe size is from DN15mm to DN6000mm



- **CG Series :**
- **Glass Tube Variable Area Flowmeter**

They can be used to measure the instantaneous flowrate of liquids or gases in various applications. They are designed to be installed into vertical lines. You can choose the alarm as an option.



- **CMS Series :**
- **Metal tube variable area flowmeters**

CMS Series consist of tapered metal tube and local indicator. They are designed to measure liquids and gases in high pressures and temperatures. You can choose the indialarm and signal output as an option.

- **CT Series**
- **Turbine Flowmeter for Liquids**

They are based on the principle of the Woltmann rotating vane meter. They are designed to measure liquid. This arrangement permits the measurement of very low flow rates in liquid under a variety of operating conditions with high



- **CN-100 Series**
- **Electro Magnetic Flow Meter**

The Electromagnetic Flowmeter can be used to accurately measure the flowrate of liquids, paper pulp, slurry and mineral slurry which has an electrical conductivity greater than 5us/cm.





NEWFLOW / TAIWAN

FIELD INSTRUMENT ECONOMIC MARKET



ISO 9001
REGISTERED

ABOUT NEW-FLOW

New-Flow Technologies, Inc. is a manufacturer of industrial instruments and products in USA and Taiwan. Since founded in 1980, we have been devoting ourselves to manufacturing instrumentation to meet application requirements in many industries including, but not limited to, chemical, food, oil and gas, and pollution control. New-Flow offers a large variety of products for measurement and control of temperature, pressure, flow, level and valve. At New-Flow, we are committed to manufacturing quality products and to the full satisfaction of our customers. New-Flow has been certified as being in compliance with the standards of ISO9001.



VALVE SYSTEM

PRESS SYSTEM

TEMP SYSTEM

LEVEL SYSTEM

FLOW SYSTEM



ELECTRICAL SOLUTION



ELECTRICAL & NETWORK SOLUTION



Data Centers, Server Rooms, and Wiring Closets
On-demand architecture for network-critical physical infrastructure



UPS
Back-Up power protection solutions from desktop to datacenter to custom-built industrial UPS systems.



Power Distribution
Comprehensive power distribution, which includes Stationary PDUs, Rack PDUs, and Rack Automatic Transfer Switches, for your Network-Critical Physical Infrastructure needs.



MOTORS & HEATER & FILTER SOLUTION

- Power to Heat (PtH)
- Finned Tube Heater



/ CANADA

FLAME SCANNING SYSTEM



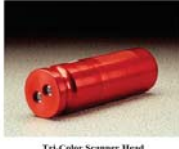
SPECTRUM UV FLAME SCANNER ENCLOSURE



Spectrum VIR VI Flame Scanner Module



Single or Dual Color Scanner Head



Tri-Color Scanner Head



SunSpot II Flame Detector Retrofit Kit



IoTKey®

- for process insights

The IoTKey® system is a comprehensive platform for machine and process monitoring and the preventive maintenance of equipment.

Typical applications include production equipment, power generation and transmission, process industry, the food industry, logistics, building services and municipal engineering.

IoTKey® takes manual monitoring into the digital age.



ELECTRICAL SOLUTION



AUTOMATION PARTS



Omni 3000 (left) and 6000 flow computers



RMC flow computer



Internals of RMC flow computer



Aurora Works Co., Ltd.

KSPC PROJECT REFERENCE LIST

F.Y.	Client Name	Project Name
AUG. 2017	THAI MMA CO., LTD.	Project: BMA#2 & MAA#2 By TTCL Public Co.,Ltd.
APRIL. 2017	Mae Moh Power Plant	Mae Moh Power Plant Unit 4 – 7 Replacement Plant By Bestech Engineering
MAR. 2017	Bangchak Corporation	Turn – around maintenance KSBFI – 30 Units (Delta Elmech)
MAR. 2017	Global Green Chemical Public Co., Ltd.	METHYL ESTER PLAN II (MEII) By K Thai contractor Co., Ltd.
MAR. 2017	WPGE Phetchaburi Company Limited	Phetchaburi Praince Project by E-SQUARE ENVIRONMENT
MAY. 2017	PTT Global Chemical Public Co.,Ltd	PTT GC Refinery MRO - BIZ
DEC. 2016	Global Green Chemical Public Co., Ltd.	Waste Water 11 Tanks by Gencon Engineering Co.,Ltd.
DEC. 2016	Verasuwan Co.,Ltd.	Replacement PVRV w/ Flame Aresster 2" 13 sets Project
OCT. 2016	TTM Songkla	MRO BY TYCOON UNITED (ASIA) CO.,LTD.
SEP. 2016	IRPC Public Co.,Ltd.	Improve GV system of SAN1SAN2 tank (15PCP161)
MAY. 2016	TTCL Public Co.,Ltd.	LLDPE Expansion and Hexene-1 Project (D-184)
APR. 2016	KS Biogas G160/1039/APT	KS Biogas G160/1039/APT by Gencon Engineering
MAR. 2016	Thai Polyacetal Co.,Ltd.	Emergency Vent Cover “KSPC”
SEP. 2015	Eternal Resin	Warehouse tank yard Pedesing Project
SEP. 2015	SCG Chemical	MTT Project (Existing more than 70%)
AUG. 2015	Bangchak Biodiesel Project	Bangchak Biodiesel Project By TRC Construction PLC.
APR. 2015	SCG Chemical	VCM1 Debottleneching & Environmental Improvement
MAY. 2015	Project in Myanmar / Project Gulf Nongsang & Uthai	Project in Myanmar / Project Gulf Nongsang & Uthai By Unimit Engineering
OCT. 2014	IRPC Public Co.,Ltd. Central Wastewater Treatment Plant	Petroleum / Central Wastewater Treatment Plant By ItalThai Engineering Co.,Ltd.
MAR. 2014	IRPC Chum-porn Terminal Expansion Storage Project	IRPC Chum-porn Terminal Expansion Storage Project By New Star Internationnal Co.,Ltd.
OCT. 2014	PTT Phenol Train II	PTT Phenol Train II By Thai Rotary Engineering
AUG. 2014	Thai oil – Labix Project	Thai oil – Labix Project By BJC Heavy Industries
JUN. 2014	PTT Maintenance and Engineering	Aromatics-II Debottlenecking Project (PTT GC)
APR. 2014	PTT PCL “C-P-P-1-308-13-0003 Project”	PTT PCL “C-P-P-1-308-13-0003 Project” By PATKOL PCL
APR. 2014	Thai Polycetal Co.,Ltd.	D-343W Project
MAR. 2014	PTT MCC Biochem / PBS (D-172)	PTT MCC Biochem / PBS (D-172) By Toyo Thai Corporation PLC
FEB. 2014	TPI Polene	VAE 2 Project
JAN. 2014	Sak Chaiyasit Company Limited	Sak Chaiyasit By Thai Woo Ree Engineering Co., Ltd.
FEB. 2013	Siam Chemical	Tanks expansion (FA- 24 Units)
APR. 2013	Bangchak Petroleum	PVRV Improvement (KSPC – Installed base)
FEB. 2013	BPE – PTT ME	HDPE Pluto Pilot Plant
FEB. 2013	PTT PHENOL	PTT Phenol Project (Phenol#1&2)
APR. 2013	IRPC CO.,LTD.	EBSM Plant (KSPC installed base in F’Y 1998)





History:

2008



First Established as Aurora Works Co., Ltd. In the Business of sale and service to Industrial products and consultants

2009



Representative of authorization industrial products:

- Elmess / Germany (Heater-Solution)
- GSI / USA
- NEW FLOW / Taiwan
- Temperature Control / Australia

2010

Add vendor lists with Key-account customer:

- Glow Energy
- EGAT
- PTT Chemical
- PTT AR
- TIG
- Unilever
- IRPC
- TPI Polene
- PTT PE

2011



Setting up "Rayong Branch Office" to coverage of sales market in Petro chemical Oil & Gas industries



Aurora Works Co.,Ltd. agreement with KSPC company (Korea) to start up "Exclusive Distributor agent of KSPC" (Tank protection device following API 2000) in Thailand

2012

Expansion head office for Training center for instrumentation & tank protection device program. Add vendor lists customer more than 50 accounts in Thailand

- PTT ME
- PTT GC
- PTT PLC
- PTT EP
- SCG Chemical
- CBES Group
- Bangchak Petrochemical

Coverage with EPC in Thailand

- Thai Rotary
- Unimit Engineering
- Foster Wheeler
- TRC

Training Tank protection device program

- Toyothai
- Thai Rotary
- IRPC / Lube tank farm
- PTT GC / Tank farm AR1

2013



Add on Representative Agent with:

- FC Korea / Korea (Flow meter solution)
- Technical / Italy (Safety Valve Hi-pressure API 526)

2014



Add on Representative Agent with:

- Fossil / Canada (Water Drum Level Solution)
- Barton Firtop / UK (Stainer market.)
- Simco / UK (Magnetic Float Level Solution)

2015



Add on Representative Agent with:

- Delta Control / UK (Pressure & Temperature Switch Transmitter.)

2016



Add on Representative Agent with:

- SKS / Finland (RTD & TC Solution)

2017



New Office

AURORA WORKS CO.,LTD.(Head Office)
888/24 Soi Prachauthit 86, Prachauthit Road,
Thung Khru, Thung Khru, Bangkok 10140.

PROJECT REFERENCE LIST

F.Y.	Client Name	Project Name
MAY.2017	PTT Ethanol pilot plants (Ayuthaya)	PTT Ethanol pilot plants/ Safety Valve/ TECHNICAL by PATKOL
MAY.2017	Districts Cooling System and Power Plant	Pressure Gauge /Delta Controls
MAY.2017	NALCO INDUSTRIAL SERVICE (THAILAND)	Design check SN1832A0 / SAFETY VALVES / TECHNICAL by IMES
MAY.2017	Glow Energy Public Co.,Ltd.	GSPP2/GSPP3/ Thermocouples and Thermowells /SKS
JUN. 2017	Amec Foster Wheeler Service (Thailand)	Thermocouple Sensing Element /SKS
MAY.2017	PTT Public Company Limited	Thermal cut-out / ELEMESS
FEB. 2017	Glow SPP3 Co.,Ltd.	Pressure Switch/ Delta Controls
JUN. 2016	PTT Global Chemical Public Co.,Ltd.	PTTPE Plant/ Y-type STRAINER CL.300 FLGD-RF Lme / BARTON FIRTOP
APR. 2016	District Cooling System and Power Plant Co.,Ltd.	HP Drum at HRSG 2/ Aquarian 3000Visual Ported Gauge / Fossil
NOV. 2016	Patkol Public Co.,Ltd	CFD3160008 Onsite Calibration Field Instrument
NOV. 2016	IRPC Public Co.,Ltd.	IRPC Project Store/ RY Visibility Gauge system /FOSSIL
OCT. 2016	Finic Plus and Paper Public Co.,Ltd	SCG Packaging/ Level Probe High Pressure /FOSSIL
AUG. 2016	Getabac International Co.,Ltd.	Transmitter Level Aquarian 3000 Mini /FOSSIL
JUL.2016	EGAT North Bangkok Power Plant	HRSG 101,102/ HP Drum Level Indicator Spare part ports gauge repair kit_2000287568/ FOSSIL
JUN. 2016	PTT Global Chemical Public Co.,Ltd	PTTPE Plant/ Y-Stainer /BARTON FIRTOP
MAY. 2016	Samutprakarn Cogeneration CO.,Ltd	SCC PLANT/ FPS Retro-Fit Brazed Probe/ FOSSIL
MAY.2016	Thai Oil Public Company Limited	LABIX/ REFLEX LEVEL GAUGE/ SIMCO
JAN. 2016	TPI Polene Public Company Limited	Safety Valves / Technical
JAN. 2016	FOSTER WHEELER (Thailand) LIMITED.	ESSO SUP 6 Project/ TRANSPARENT LEVEL GAUGE/ SIMCO
JUL. 2015	EGAT South Bangkok Combined Cycle Power Plant	Spare Part Drum Level Probe / FOSSIL
JUN. 2015	Glow SPP3 Co.,Ltd.	GSPP3/ Renovate Trash Rake Sea Water Intake Bar Screen Cleaner
OCT.2015	Glow SPP2 Co.,Ltd.	HRSG1/ Replace Level Indicator AQ3000M 18Probe / FOSSIL
SEP. 2015	Glow SPP3 Co.,Ltd.	CFB2 Outage 2016 Level Gauge /FOSSIL
JAN. 2015	Glow Group PLC	Supplier and Calibrate Flow Computer / OMNI
SEP. 2014	Momentive Performance	Thermal Cut-Out of Temp Control system EX-501 C2 / ELEMESS
DEC. 2014	IRPC Public Co.,Ltd.	Y Strainer/ Barton Firtop
MAR. 2014	TTCL PUBLIC COMPANY LIMITED	Polybutylene succinate Plant Project / SIMCO
MAR. 2014	IRPC / Phra Pradaeng Storage	New tank expansion/ Calibrate and inspection test PVRV for KSPC
JUL. 2014	PTT Exploration and Production PCL.	Project: 1101 Bongkot/ Temperature Switch/ Delta Controls



About Us

Aurora Works Co., Ltd. was established in 2008 with more than 10 years' experience in petrochemical oil & gas, Power plant, cement plant, pulp & paper in Thailand markets.

With representative & distribution, and services of instrumentation, electrical, mechanical c/w valves solution,

Such as; Tank protection device, Water level detection products, Flow, Temperature, Pressure, Control Valve and cover engineering service.

Aurora Works is the exclusive distributor for K.S.P.C. (Korea), Fossil (Canada), FC Korea (Korea), SKS (Finland), Elmess (Germany), Barton Firtop (UK), Delta Control (UK), Simco (UK), Technical (Italy), Max Muller (Switzerland), and NEW-FLOW (Taiwan).

Mission

Be recognized as the leading supplier in delivering smarter of Tank protection devices & instrumentation and solutions.

Vision

To deliver superior customer services and solutions to our customers effectively and efficiently.



HEAD OFFICE - BANGKOK



BRANCH OFFICE - RAYONG



LETTER OF AUTHORIZATION

KSPC

AGENCY AGREEMENT

THIS AGREEMENT IS MADE ON THE DAY OF 01st, JAN. 2017.

BETWEEN

KORSA STEEL POWER CORPORATION, A MANUFACTURER,
488-1, WOLLA-RO, YONGIN-SI, GYOONGGI-DO, KOREA
TEL: 82-31-996-3827 FAX: 82-31-996-3828

AND

AURORA WORKS CO., LTD.
88/24 Soi PRACHA UTHI 56, PRACHA UTHI ROAD, THUNG KHRI, BANGKOK 10110
TEL: 66 2815 5114 FAX: 66 2815 6128
(HEREIN AFTER REFERRED TO AS "AGENT")

1. APPOINTMENT OF AGENT

1.01 COMPANY HEREBY APPOINTS THE AGENT AS ITS EXCLUSIVE REPRESENTATIVE FOR THE SALE OF COMPANY PRODUCTS AND SERVICES IN THE ASSIGNED AREA. THE AGENT ACCEPTS THIS SAID APPOINTMENT AND AGREES TO PROVIDE THE SERVICES SPECIFIED IN THIS AGREEMENT.

1.02 REPRESENTATION OF COMPANY IN THE ASSIGNED AREA WILL BE CONDUCTED BY THE DESIGNATED AGENT, AND ANY OVERTION MUST BE APPROVED AND AGREED TO BY COMPANY FROM TIME TO TIME. SUCH OVERTION MUST BE OBTAINED BEFORE ANY SALES OR MAKE OR COMMISSION WILL BE DISTRIBUTED TO AGENT BY COMPANY.

1.03 AGENT IS AN INDEPENDENT CONTRACTOR AND COMPANY SHALL IN NO MANNER BE CONSIDERED THE EMPLOYER AND COMPANY SHALL NOT BE LIABLE FOR ANY ACTS OR OMISSIONS, INCLUDING BUT NOT LIMITED TO ANY TAXES, EMPLOYMENT OR OTHER COSTS OF DOING BUSINESS.

[Signatures and stamps]

technical

Vigvadi, 27 September 2013

To Whom It May Concern

Subject: Letter of Representation

I respectfully declare that the Society Aurora Works Co. Ltd. with registered office at 1504 Moo 3 Sukhaweit Rd., T. Phra Prachinburi, Samutprakan 10280 Thailand, is the official manufacturer of Technical safety products, for the Oil & Gas Industry in Thailand, for the period of one year starting from 01.09.2013.

We are fully committed to supporting Aurora Works Co. Ltd. by providing genuine products and superior technical assistance as well.

For information regarding the above mentioned products please contact Mr. Anongkitch Chantavan at Tel: 001-20111413 Fax: 001-20111013

We would like to thank you for working with TECHNICAL products through Aurora Works Co. Ltd.

Yours faithfully,

[Signature]
Sukon Maneevitayee
Sales Manager

delta-controls

Our Ref: Aurora Works Co. Ltd. distributor agreement

To Whom It May Concern

Dear Customer/Distributor in Thailand

I am writing to confirm that Delta Controls distributor operating in Thailand is Aurora Works Co. Ltd. the complete contact details are:

Aurora Works Co. Ltd.
1504 Moo 3 Sukhaweit Rd.
T. Phra Prachinburi, Samutprakan 10280
Thailand
Tel: +66 2815 5114
Fax: +66 2815 6128
Email: info@auroraworks.com

Aurora Works Co. Ltd. are authorized to supply the following products from the Delta Controls range:

- Pressure, Pressure Differential and Temperature Switches
- Pressure and Differential Pressure Transmitters
- Flow Transmitters
- Temperature and Pressure Transmitters
- Changes for Pressure, Differential Pressure and Temperature
- Valves and Valves/Flows

Agreement valid until 30th Sept 2013

Should you need any further information, please do not hesitate to contact us.

Yours faithfully,
Mr. Brian Corbett
Sales Director

[Signature]
Brian Corbett
Sales Director

FIRTOP

Barton Firtop Engineering Company Limited
1504 Moo 3 Sukhaweit Road, Prachinburi, Samutprakan 10280 Thailand, Tel: +66 2815 5114 Fax: +66 2815 6128
Email: info@auroraworks.com

TO WHOM IT MAY CONCERN

This letter is in confirmation that Aurora Works Co. Ltd. (AWC) is the authorized distributor of the following products in Thailand:

BARON FERTOP

Range of
CANT & FABRICATED STRAINERS, FILTERS, HOT OIL SEPARATORS, COALESCERS, FETTERING PRESURE FILTERS, HOT OIL FILTERS, PACKAGES, BLENTERS, PANS, MIXER, ELIMINATOR, KALERLED PACKAGING SYSTEMS, FLAME ARRESTERS AND ASSOCIATED AUXILIARY PERIPHERAL EQUIPMENT.

For the region of
Thailand

This agreement is valid from the date below until further notice. UK law applies in all cases on this agreement.

Signed by and on behalf of Barton Firtop Engineering Company Ltd.
Name: T. Baker
Position: Senior Applications Engineer
Signature: *[Signature]*
Date: 27th August 2014

BARTON FIRTOP ENGINEERING COMPANY LIMITED
1504 Moo 3 Sukhaweit Road, Prachinburi, Samutprakan 10280 Thailand, Tel: +66 2815 5114 Fax: +66 2815 6128
Email: info@auroraworks.com

ELMESS

LETTER OF AUTHORIZATION

To: Aurora Works Co., Ltd.
Date: 30 March 2013

This is to state that Aurora Works Co., Ltd. Located at 1504 Moo 3 Sukhaweit Rd., T. Phra Prachinburi, Samutprakan 10280 Thailand is authorized to represent in Thailand products & services produced / marketed by **ELMESS-Thermodynamische GmbH & Co. KG**

ELMESS-Thermodynamische GmbH & Co. KG allow Aurora Works Co., Ltd. to buy the under documents on Aurora's behalf, subject to conditions. Outside the technical and commercial parts, negotiate for order and work for the completion of the same.

[Signatures]

SKS AUTOMATIO

DISTRIBUTION CONTRACT - AURORA WORKS CO. LTD

PRODUCTS: Temperature sensors, Sensors under SKS Sensors brand

[Signatures]

FPS

Agreement for the Appointment of Representative for the Fossil Power System

July 2, 2014

To: Who It May Concern

Reference: Authorization Letter Aurora Works Company Limited

This letter will confirm Fossil Power System's appointment of Aurora Works Co. Ltd. as its exclusive representative for the sale of Fossil Power System's products in Thailand. The products are:

AGRIAN water level gauges used in various applications. During the last year, the Agrikan water level gauges were manufactured by Varway Corp for Fossil, under a license agreement with Fossil. The marketing agreement has been renewed and will continue to be renewed. The Agrikan gauges and spare parts, both original and non-original, are the property of Fossil. This agreement does not permit sale or duplication of the Fossil logo, company name or reproduction of the Agrikan gauges.

If you have any questions, please contact me for additional information.

[Signature]
Aurora Works Co. Ltd.

NEW FLOW 升龍企業股份有限公司 GOLDEN MOUNTAIN ENTERPRISE CO., LTD.

ISO 9001

LETTER OF APPOINTMENT

To Whom It May Concern,

The Golden Mountain Enterprise Co., Ltd. will support and supply genuine quality components to:

Aurora Works Co., Ltd.

[Signature]

simco

Liquid Level Gauges and Valves

Date: 18 August 2013

To Whom It May Concern

We are pleased to confirm that Aurora Works Company Limited located at 1504 Moo 3 Sukhaweit Road, T. Phra Prachinburi, Samutprakan 10280 Thailand, is authorized to represent in Thailand products & services produced / marketed by **simco** for the region of Thailand. This agreement is valid until 30th Sept 2013.

[Signature]

Products Certified

FM APPROVED **ICR** **ANAB** **KSPC / KOREA** **IAF** **EX** **IEC** **TECEx** **SKS/FINLAND**

FM APPROVED **ANSI-RAB** **CE** **SP** **FOSSIL / CANADA** **Baseefa** **IEC** **TECEx** **bsi** **IAF** **UKAS** **CE** **EX** **DELTA CONTROL/ UK**

IONet **ERC** **PG** **Pressure Equipment Directive** **UV** **TECHNICAL / ITALY** **ABS** **CE** **NEW FLOW / TAIWAN**

UKAS **IR** **URAS** **BARTON FIRTOP / UK** **IEC** **TECEx** **CE** **EX** **SPEC** **KAD** **CE** **UKAS** **FDC / KOREA**

Lloyd's Register **bsi** **IAF** **ANAB** **UKAS** **sira** **CE** **EX** **SIMCO / UK** **BUREAU VERITAS** **EX** **TUVNORD** **IEC** **TECEx** **DVGW** **ELMESS / GERMANY**

PRODUCTS & SERVICES

PRODUCTS AUTHORIZATION

1. KSPC / FDC	Tank Protection Devices	Korea
2. Fossil	High pressure water Column LG.	Canada
3. Delta Controls	Pressure transmitters	UK
4. Barton Firtop	Basket Strainer	UK
5. Technical	Safety relief valves	Italy
6. Simco	Reflex/Transparent Magnetic Level (Premium grade)	UK
7. Elmess	Submersible Heater	Germany
8. SKS	Thermocouple, RTD	Finland
9. FC-Korea	Flow Meter	Korea
10. Max Müller AG	Process illumination and visual observation systems	Switzerland
11. New Flow	Instrumentation Economic	Taiwan

SERVICE DEPARTMENT

1. Calibrate and inspection test PVRV (Breather Valves, ERV, and Blanketing Regulator) KSPC
2. Installation / Calibrate Flow Computer (OMNI)
3. Calibrate Field instrumentation such as: Pressure Gauge, Transmitter, controller and valves
4. Installation Tank Protection Device & Water Drum level gauge and commissioning
5. Preventive maintenance UPS and battery under APC brand
6. PLC programmer project
7. Installation Metal detector under brand EGE / Germany for mine - application



AURORA WORKS CO., LTD.

Head Office:

888/24 Soi Prachauthit 86, Prachauthit Rd., Thung Khru,
Thung Khru, Bangkok 10140 Thailand.
Tel. : 66 2815 5114 Fax: 66 2815 6128

Branch Office:

9/7 Soi Siriporn, Sukumvit 45 Road, T. Maptaphud,
A. Muang-Rayong, Rayong 21150 Thailand
Tel. : 66 38 682 821 Fax: 66 38 682 822

<http://www.aurora-works.com> E-mail: info@aurora-works.com