

DOONE DERICK B. BACSA

Instrument and Control Engineer

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Profile

Experienced I&C Engineer with over 12 years of specialized expertise in managing and sustaining modern combined cycle power plants. Proficient in various control systems, equipment, and instrumentation, demonstrating versatility and adeptness in operational and maintenance tasks.

Experience

Instrument and Control Engineer *Aug. 2012 - Present*
San Miguel Global Power
(former KEPCO Ilijan Corporation)

1200 MW Combined Cycle Power Plant

The 2x600 MW Ilijan Power Plant in Batangas is a combined cycle power plant in Batangas City. The Ilijan Power Plant is the largest natural gas facility in the Philippines.

Job Description

- Ensure the ongoing functionality and reliability of plant control systems by implementing preventive, corrective, and diagnostic maintenance procedures. This includes managing ABB Bailey/Symphony systems for DCS and Mitsubishi Heavy Industries-Diasys UP/V & Netmation systems for Gas and Steam Turbine Control.
- Perform modification of control circuits and/or control loops as per the plant change requests and update all related plant drawings to reflect the actual changes.
- Perform preventive and emergency maintenance on all equipment on site and during machine scheduled or unscheduled shutdowns.
- Assist other sections such as electrical, mechanical, and workshop in repairing and troubleshooting their instrument and electronic-related systems and test equipment.
- Perform upgrade and retrofitting of new control instruments to the existing panels in the field and main control room.
- Troubleshoot, repair, calibrate, and test various types of process control instruments and relay logic, which include pneumatic, electrical, and electronic instruments.
- Remove, dismantle, overhaul/repair and install electric, pneumatic, electronic or hydraulic control system such as control valves and actuators, recorders, measuring and recording instruments in the field or in the workshop.

Personal Info

- **Birthdate**
August 18, 1989
- **Citizenship**
Filipino
- **Civil Status**
Married

Education

- **Batangas State University**
BS Instrumentation & Control Engineering
Completed in 2011

Awards

May 2019 | KEPCO Ilijan Corporation
Employee of the Month

2019 | KEPCO Ilijan Corporation
Employee of the Year

Technical Skills

Knowledge in DCS and DDC software and hardware operations and troubleshooting.

- ABB Bailey Conductor NT DCS
- MHI DDC Diasys and Netmation Turbine Control

Experience in PLC and other Power Plant applications

- Siemens Simatic
- Allen Bradley PLC
- Emerson ROC 800 Series
- ABB NGC 8206 & Daniel 2350A

Knowledge and ability to use computers and related technology efficiently.

- Microsoft Office Applications
- AutoCAD



References

Engr. Zander O. Velasquez

SPPC I I&C Superintendent

Phone: +639173297181

Email: zovelasquez@yahoo.com

Engr. Ronald M. Mendoza

SPPC I I&C Supervisor

Phone: +9166023421

Email: ronaldmmendoza@yahoo.com

Engr. Francis Jay S. Luya

GUP I E&I Engineer

Phone: +16714834838

Email: jayluya121811@gmail.com

Assistant Engineer

Oct. 2011 - Aug. 2012

Yokogawa Philippines Incorporated

Yokogawa is a leading provider of Industrial Automation and Test and Measurement solutions. Combining superior technology with engineering services, project management, and maintenance, Yokogawa delivers field proven operational efficiency, safety, quality, and reliability.

Job Description

- Conduct site surveys to assess project requirements.
- Review terms of reference or bid technical specification documents to understand the project scope.
- Generate a compliance/deviation table comparing the proposed control system against bid specifications.
- Create system configurations and input/output counts for the proposed control system.
- Prepare Engineering Quotation Requests (EQR) detailing required engineering works, project management, services, and material supply for proposal completion.
- Aid clients in understanding product applications, special constructions, technical solutions, and benefits.
- Address DCS issues requiring technical applications/clarifications and attend client review and technical meetings as needed.
- Prepare and maintain technical documents, including design drawings.

Trainings and Seminars

- Basic Operations, Functions, Features and Maintenance of Envidas South Premiere Power Corporation, Ilijan Batangas City, Philippines
September 22, 2023
- Calibration for Process Instrumentation
MFI Polytechnic Institute Inc., Oritigas Ave. Pasig City, Philippines
July 23-27, 2018
- Instrumentation & Control for Industrial Application
UP National Engineering Center, UP Diliman, Quezon City, Philippines
July 23-27, 2018
- ABB Symphony Plus Hardware & Software Operation & Maintenance Training
Daejeon, South Korea
December 10-14, 2017
- Combined Cycle Basic Plant Operation & Maintenance
KEPCO Ilijan Corporation, Batangas City, Philippines
August 22 - October 25, 2012
- Centum VP Engineering (YOKOGAWA DCS)
Yokogawa Philippines Inc., Quezon City, Philippines
November 14-18, 2011
- Programmable Logic Control
MFI Polytechnic Institute Inc., Pasay City, Philippines
July 23-27, 2011
- Autocad 2D and 3D
MFI Polytechnic Institute Inc., Pasay City, Philippines
July 04-22, 2011
- Process Control Automation Fundamental
I&E Industrial System Services Inc. Libjo Batangas City, Philippines
July 31 & August 3, 2009