COMMISSIONING AND START-UP ACTIVITIES OF COAL POWER PLANTS:

Preparation, Planning, Pre-Commissioning Checks and Tests, Commissioning Schedule, Detailed Commissioning Procedures and Instructions for each Equipment in a Coal Power Plant, Instrumentation, Trial Run of each Equipment, Safety and Precautions, Commissioning of Coal Power Plant Systems, Safety Rules Clearance Certificates, Procedure for the Control and Handling of Defects, Commissioning Reports

22 – 24 MAY 2017, SINGAPORE

Expert Course Faculty Leader

Philip Kiameh

Has more than 30 years of practical engineering experience with Ontario Power Generation and as a Training Manager, has conduct courses and seminars, to more than 4,000 working engineers and professionals who consistently ranked him as "Excellent" or "Very Good". Philip has also wrote 5 books for working engineers from which three have been published by McGraw-Hill, New York.

Qualified for 18 PDUs by PEB

Topics Covered

Pre-Commissioning Checks and Tests

Commissioning Management System of Coal Power Plants

Commissioning Procedures and Instructions for Boiler and Auxiliaries in Coal Power Plants

HRDF CLAIMABLE

*Subject to terms and conditions

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Empower your future
COMMISSIONING AND START-UP ACTIVITIES OF COAL POWER PLANTS: 22 – 24 MAY 2017, SINGAPORE

Course Overview

This seminar provides a comprehensive understanding of all the commissioning and start-up activities of coal power plants. The Commissioning Management System of coal power plants is covered in detail in this seminar. This includes all the commissioning procedures and documents, purpose of commissioning, responsibilities, system description, organization, working parties, test teams, documentation, testing and commissioning schedules, test reports, safety, plant certification, and plant completion report. The seminar provides also a thorough understanding of all the commissioning requirements for boiler and auxiliaries, turbines and auxiliaries, generator and auxiliaries, electrical equipment, switchgear equipment, switchgear, and transformers. All the stages of the commissioning procedure are covered in-depth in this seminar. This includes preparation – planning various activities, pre-commissioning checks and tests, typical commissioning schedule, detailed tests and commissioning procedures and instructions for every component in a coal power plant, instrumentation, trial run of the equipment, safety and precautions, commissioning of coal power plant systems, Safety Rules Clearance Certificates, procedure for the control and handling of defects, Commissioning Reports.

This seminar is a MUST for anyone who is involved in the pre-commissioning or commissioning of any coal power plant equipment because it provides detailed pre-commissioning checks and tests and detailed tests and commissioning procedures and instructions for every component in a coal power plant. In addition, the seminar provides in-depth coverage of all preparation, planning activities, commissioning schedules, trial run of each coal power plant equipment, safety and precautions, Safety Rules Clearance Certificates, Procedures for handling defects, and Commissioning Reports.

Course Learning Outcomes

- **Pre-Commissioning Checks and Tests**, Detailed Tests and Commissioning Procedures and Instructions for Every Equipment in Coal Power Plants: Gain a thorough understanding of all pre-commissioning checks and tests, and all commissioning procedures and instructions for every equipment in coal power plants
- **Commissioning Management System of Coal Power Plants**: Discover the benefits of the Commissioning Management System of coal power plants including all commissioning procedures and documents, purpose of commissioning, responsibilities, system description, organization, working parties, test teams, documentation, testing and commissioning schedules, test reports, safety, plant certification, and plant completion report
- **Commissioning Procedures and Instructions for Boiler and Auxiliaries in Coal Power Plants**: Learn about the commissioning procedures and instructions for boiler and auxiliaries including all commissioning activities, typical commissioning schedule, hydraulic test and wet preservation, air and gas tightness test, trial run of equipment, electronic precipitators, fuel oil system, preparation for first light up, alkali boil–out, acid cleaning and passivation, thermal flow test of economizer, water walls, and superheater, valves, steam boiling, safety valve setting, and soot blowers.
- **Commissioning Procedures and Instructions for Turbine and Auxiliaries**: Gain a thorough understanding of all the commissioning procedures and instructions for turbine and auxiliaries including acid cleaning of oil pipelines, lubrication and governing system (oil flushing and hydraulic testing), jacking oil system, governing system, regenerative system, barring gear, vacuum tightness test, first rolling of turbine and data logging
- **Commissioning Procedures and Instructions for Generator and Auxiliaries**: Discover all the commissioning procedures and instructions for generator and auxiliaries including generator, seal oil system, hydrogen gas system, stator water system, rolling and payment of generator
- **Commissioning Procedures and Instructions for Electrical Equipment**: Learn about all the commissioning procedures and instructions for electrical equipment including switchyard equipment, switchgear, transformers, and motors
- **Coal Power Plant Equipment and Systems**: Learn about various coal power plant equipment and systems including: boilers, superheaters, reheaters, steam turbines, governing systems, deaerators, feedwater heaters, coal-handling equipment, transformers, generators and auxiliaries
COMMISSIONING AND START-UP ACTIVITIES OF COAL POWER PLANTS: 22 – 24 MAY 2017, SINGAPORE

Training Methodology

The instructor relies on a highly interactive training method to enhance the learning process. This method ensures that all the delegates gain a complete understanding of all the topics covered. The training environment is highly stimulating, challenging, and effective because the participants will learn by case studies which will allow them to apply the material taught to their own organization.

Who Should Attend

- Engineers of all disciplines
- Managers
- Technicians
- Maintenance personnel
- Other technical individuals

Your Expert Faculty

Philip Kiameh, M.A.Sc., B.Eng., D.Eng., P.Eng. (Canada) has been a teacher at University of Toronto and Dalhousie University, Canada for more than 23 years. In addition, Prof Kiameh has taught courses and seminars to more than four thousand working engineers and professionals around the world, specifically Europe and North America. Prof Kiameh has been consistently ranked as "Excellent" or "Very Good" by the delegates who attended his seminars and lectures.

Prof. Kiameh performed research on power generation equipment with Atomic Energy of Canada Limited at their Chalk River and Whiteshell Nuclear Research Laboratories. He also has more than 30 years of practical engineering experience with Ontario Power Generation (formerly, Ontario Hydro - the largest electric utility in North America).

While working at Ontario Hydro, Prof. Kiameh acted as a Training Manager, Engineering Supervisor, System Responsible Engineer and Design Engineer. During the period of time that Prof Kiameh worked as a Field Engineer and Design Engineer, he was responsible for the operation, maintenance, diagnostics, and testing of gas turbines, steam turbines, generators, motors, transformers, inverters, valves, pumps, compressors, instrumentation and control systems. Further, his responsibilities included designing, engineering, diagnosing equipment problems and recommending solutions to repair deficiencies and improve system performance, supervising engineers, setting up preventive maintenance programs, writing Operating and Design Manuals, and commissioning new equipment.

Later, Prof Kiameh worked as the manager of a section dedicated to providing training for the staff at the power stations. The training provided by Prof Kiameh covered in detail the various equipment and systems used in power stations.

Professor Philip Kiameh was awarded his Bachelor of Engineering Degree "with distinction" from Dalhousie University, Halifax, Nova Scotia, Canada. He also received a Master of Applied Science in Engineering (M.A.Sc.) from the University of Ottawa, Canada. He is also a member of the Association of Professional Engineers in the province of Ontario, Canada.

Prof Kiameh wrote 5 books for working engineers from which three have been published by McGraw-Hill, New York. Below is a list of the books authored by Prof Kiameh:

5. Industrial Equipment (600 pages), Custom Publishing, University of Toronto, University of Toronto, University of Toronto Custom Publishing (1999).
### 3 Day Course Outline

**Day 1 – Commissioning Management System, Commissioning of Boiler and Auxiliaries, Commissioning of Electrostatic Precipitators, Commissioning of Fuel Oil System, Preparation for First Light-up, Chemical Cleaning of Boiler, Thermal Flow Test for Economizer, Water Walls, and Superheater, Commissioning of Valves, Commissioning of Soot Blowers**

- Commissioning Procedure and Documents: Purpose of Commissioning, Responsibilities, System Description, Organization, Working Parties, Test Teams, Documentation, Safety, Plant Certification, Plant Completion Report,
- Boiler and Auxiliaries: Commissioning Activities, Preparation – Planning Various Activities, Typical Commissioning Schedule,
- Hydraulic Test and Wet Preservation: Water Filling, Drainable Parts, Hydrostatic Testing, Wet Preservation
- Air and Gas Tightness Test: Procedure for the test, Furnace Zone, Second Pass of Boiler, Electrostatic Precipitator, Forced Draft Fan Ducts, Primary Air Fan Ducts, protocol on smoke generator test of the boiler
- Trial Run of Equipment: Fan, air heaters, Mills
- Commissioning of Electrostatic Precipitator: Pre-commissioning Checks – Mechanical, Pre-Commissioning Checks – Electrical, Before the First Light of the Boiler, Gas Distribution Test
- Fuel Oil System: Flushing of H.S.D Lines with Oil, Tests, constructional Tests, Pre-commissioning Tests, Commissioning Tests
- Preparation for First Light Up: System, Checking of Ignitor System, Check on Oil Characteristics, Check on Equipment in Oil/Air Lines, Pre-Check Before Light-up, Testing Furnace Probe, First Light Up Of The Boiler, Expansion Movement of Boiler
- Commissioning of Valves: Check List of Valves, Motorized Valves, Pneumatic-Operated Valves, Control Valves, Safety Valves
- Steam Blowing: Basic Technique Used, Scheme, Reheat Safety Valve Setting, Precautions
- Safety Valve Setting: Constructional Test, Pre-Commissioning Tests, Commissioning, Protocol on Safety Valve Setting
- Commissioning of Soot Blowers: Readings for Operation with Steam (Mechanical), Check Up of Electrical System, Commissioning of Blowers without Steam

**Day 2 – Turbine and Auxiliaries, Acid Cleaning of Oil Pipelines, Lubrication and Governing System, Jacking Oil System, Governing System, Regenerative System, Boiler Feed Pump Commissioning, Barring Gear, Vacuum Tightness Test, Check List of First Rolling of Turbine**

- Turbines and Auxiliaries
- Acid Cleaning of Oil Pipelines: Passivation and Drying, Final Erection in Position, Safety
- Lubrication and Governing System: Preparation for Oil Filling in Man oil tank, Charging of Oil Systems, Oil Flushing Circuit of a Typical 200/210 MW Turbine
- Lube Oil System, Oil Flushing, Hydraulic Testing of Oil System, Additional Checks to be Made on Turbine Oil System
- Jacking Oil System: Oil Flushing, Relief Valve Setting, Preparation for Hydraulic Testing, Hydraulic Testing
- Governing System: Checking of Governing System
- Regenerative System: Preparations, Procedure, Shell Sides and Drain Lines of Heaters, Safety and Precaution, HP/LP Heaters
- Boiler Feed Pump Commissioning: Constructional Tests, Pre-Commissioning, Commissioning Tests
- Barring Gear: Preparation, Trial Run of Motor, Preparation for Putting The Barring Gear in Operation
- Vacuum Tightness Test: Preparation of the System Before Filling with DM Water, Vacuum Tightness Test By Filling Up with DM Water, Raising the Vacuum in Condenser
- Check List for First Rolling of Turbine (200/210 MW), Preparation, Preliminary Operation Before Rolling, Operation to Be Carried out For The Units with HP/IP Bypass System, Data to be Collected During Commissioning and Also After Loading to Full Capacity in 200/210 MW Turbine Generator Set

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**STEAM Blowing: Basic Technique Used, Scheme, Reheat Safety Valve Setting, Precautions**

**Safety Valve Setting: Constructional Test, Pre-Commissioning Tests, Commissioning, Protocol on Safety Valve Setting**

**Commissioning of Soot Blowers: Readings for Operation with Steam (Mechanical), Check Up of Electrical System, Commissioning of Blowers without Steam**

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**Steam Blowing: Basic Technique Used, Scheme, Reheat Safety Valve Setting, Precautions**

**Safety Valve Setting: Constructional Test, Pre-Commissioning Tests, Commissioning, Protocol on Safety Valve Setting**

**Commissioning of Soot Blowers: Readings for Operation with Steam (Mechanical), Check Up of Electrical System, Commissioning of Blowers without Steam**

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**Steam Blowing: Basic Technique Used, Scheme, Reheat Safety Valve Setting, Precautions**

**Safety Valve Setting: Constructional Test, Pre-Commissioning Tests, Commissioning, Protocol on Safety Valve Setting**

**Commissioning of Soot Blowers: Readings for Operation with Steam (Mechanical), Check Up of Electrical System, Commissioning of Blowers without Steam**

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**Steam Blowing: Basic Technique Used, Scheme, Reheat Safety Valve Setting, Precautions**

**Safety Valve Setting: Constructional Test, Pre-Commissioning Tests, Commissioning, Protocol on Safety Valve Setting**

**Commissioning of Soot Blowers: Readings for Operation with Steam (Mechanical), Check Up of Electrical System, Commissioning of Blowers without Steam**
Day 3 – Generator and Auxiliaries, Generator, Commissioning of Seal Oil System, Hydrogen Gas System, Stator Water System, Rolling and Dryout of Generator, Electrical Equipment, Switchgear, Switchgear, Transformer, Commissioning Reports

- Generator: Preliminary Checks of Resistance' Insulation Resistance, Ohmic Resistances, Generator Stator Winding, Generator Rotor Winding
- Seal Oil System: Equipment Inspection, Control Panels, AC Seal Oil Pump Motor Set, DC Seal Oil Pump Motor Set, Oil Injector, Induction Liquid Indicator, Seal Oil Coolers, Seal Oil Filters, Damper Tank, Differential Pressure Regulator, Pressure Oil Regulator, Exhaust Fan and Motor on The Drain Header, Exhaust Fan and Motor on Main Oil Tank, Commissioning of Seal Oil Starting Panel, Commissioning of Seal Oil Signaling Panel, Check with 200 V DC and AC Supplies, Trial Run of Seal Oil Pump Motors, DC Seal Oil Pump Motor, Trial Run of Exhaust Fans, Oil Flushing, Trial Run of AC Seal Oil Pump, Second Stage Flushing, Third Stage Flushing, Fourth Stage Flushing, Fifth Stage Flushing, Commissioning of The System
- Stator Water System: Equipment Inspection, Stator Water Cooling Pumps and Motors, Water Coolers, Water Filter, Magnetic Filter, Expansion Tank, Water Jet Ejector, Stator Water System Piping and Valves, Gas Trap, Instruments, Commissioning of Stator Water Starting Panel, Checks with 220 V DC and AC Supplies, Trial Run of Stator Cooling Water Pump Motor, Flushing of Stator Cooling Water System, First Stage Flushing (By pass all equipment except filters), Second Stage Flushing (Cooler B included), Third Stage Flushing (Cooling A included), Fourth Stage Flushing (Magnetic filters included), Trial Run of Stator Water Pumps (5th stage flushing), Commissioning of The System (Final run)
COMMISSIONING AND START-UP ACTIVITIES OF COAL POWER PLANTS: 22 – 24 MAY 2017, SINGAPORE

OTHER AVAILABLE COURSES

4 Pillars of Transformer Condition
Advanced Project Finance for Power
Advanced Technical Report Writing & Presentation Skills
Advanced Turnaround Shutdown & Outage Management
Ancillary Services in Competitive Electricity
Asset Management for the Power Industry
Best Practice Renewable Energy Capital & Project Management
Biomass Power Generation
CFB Combustion for Boiler Operations
Clean Development Mechanism and Carbon Markets
Coal Contracts
Combined Cycle Power Plants Operation
Combined Heat & Power (CHP) and Co-Generation Plant Operations
Competency Management System for the Power Industry
Design & Operations of Circulating Fluidized Bed Boiler
Developing & Structuring Public-Private Partnership (PPP) for Infrastructure
Effective Tender Process Management for Power & Utilities
Electrical Hazop (eHazop) Studies for the Power Industry
Electricity Demand-Side Management
Electricity Industry Design
Electricity Network Planning
Electricity Retail Contracts
Electricity Theft
Electricity Trading Essentials
Energy Efficiency
EPC Contract Management for Power & Utilities
Essentials of Coal Markets and Trading
Essentials of Power Trading
Excitation Systems
Feed-In Tariffs for PV Systems
Finance for Non-Finance Professionals in Power & Utilities
Financial Modelling for Project Finance in Power & Utilities
Fitness-For-Service AP1 579 & High Energy Piping Life Management
Fundamentals of Geothermal Energy
Fundamentals of Power Generation
Gas & LNG Contract Negotiation
Gas Turbine Generator Selection, Operation & Maintenance
Gas Turbine Hot Gas Paths, Rotors & Failure Analysis
Gas Turbine Major Inspection & Overhaul
GE Gas Turbine Operations Simulation Based
HRSG Design, Operations & Understanding, Controlling of HRSG Damage
HV Substation Design & Construction
IEC for Utilities
Integration of Distributed Generation
Introduction to Carbon Capture & Storage
Introduction to Clean Coal Technology
Introduction to Power Systems
Keeping Electrical Switchgear Safe
Leadership & Team Dynamics for Power & Utilities
LNG Fundamentals
LNG Markets & SPOT Trading
Maintenance Planning & Scheduling
Making IPP & Renewable Energy Projects Contract Frameworks Bankable
Managing Complex Projects for Power and Utilities Professionals
Medium Voltage & High Voltage Switchgear
Metallurgy for Engineers
Mechanical Engineering for Non-Mechanical Engineers
Mini Hydro Project Analysis
MKV Speedtronic Control System
MK VI Speedtronic Control System
Nuclear Energy Project Planning & Economics
Nuclear Power
Offshore Platforms Electrical Systems Design & Illustrations
Operations of Coal Fired Power Plants
Power Generation Commissioning, Operations & Maintenance
Power Generation Operation, Protection & Excitation Control
Power Plant Chemistry for Chemist & Chemical Engineers
Power Purchase Agreements
Process Control Methods
Programmatic CDM
Project Management for Power and Utilities
Relay Protection in Power Systems
Reliability Centered Maintenance Masterclass
Reliability Engineering
Renewable Energy Development & Investment
Renewable Energy Integration
Risk Based Inspection
Risk Management in Power Markets
Root Cause Analysis
Rotating Equipment Maintenance & Reliability Excellence
SCADA & Power Systems
Smart Grid
Solar Energy & Photovoltaic Power
Spare Parts Optimisation
Supercritical and Ultra-Supercritical Coal-Fired Power Plant
Technical Report Writing & Presentation Skills for Power & Utilities Professionals
Ultra Low NOx Gas Turbine Combustion
Uninterruptible Power Supply
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Frequently Asked Questions (FAQs)

1. Does PowerEdge have other programmes than those listed?
   We have more than 200 programmes that we are capable of running. All we need is for you to contact us and request for the preferred programme and we will able to develop it.

2. Where is PowerEdge based?
   PowerEDGE is headquartered in Singapore but we run our training programmes in different venues around Asia.

3. What does PowerEdge do?
   We are a Power & Utilities Training Specialist.

4. Can this course be done in our city?
   It absolutely can. Get in touch with us to request for a training programme to be carried out in your city.

5. Can you reduce the price of our preferred course?
   While our price has been reduced before it is even launched, we are always happy to help you with further discounts.

6. Can you change the dates of the course?
   If you have a special requested date, let us know and we will arrange another session for you.

7. Who are the companies that will be participating?
   This varies from a diversity of Power Operators, Regulators, Financiers, to Vendors in the Power & Utilities industry.

8. Where is the venue for the course?
   We usually engage a 4 to 5 star hotel meeting room to ensure the comfort of our participants.

9. How many delegates should we expect for each course?
   This varies from 15 to 20 participants. Class sizes are kept small to allow trainers to focus better on each participant.

10. What are the different payment modes?
    We accept Visa/MasterCard, cheques, bank transfers and cash on site.

11. Is accommodation included when I sign up for a course?
    Accommodation is not included in the course fee but we are always happy to advise on available accommodations.

12. Can I get a cheaper accommodation through PowerEdge?
    We will be pleased to help you negotiate a better rate with hotels.

13. Is lunch provided during the course?
    We provide lunch and 2 tea breaks every day during our training programmes.

14. Are the training materials included once I have signed up for a course?
    Yes, training and course materials are included in the course fee.

15. Will there be a certificate for the course?
    Yes, there will be a certificate of participation upon completion of a course.

16. Who are PowerEdge trainers?
    They are expert consultants and practitioners with many years of experience in the subject matter that they deliver on.

17. Are PowerEdge trainers competent?
    We have received numerous favourable feedbacks on our trainers from past participants.

18. Can PowerEdge assist with Visa travel applications?
    We can assist in advising you on the relevant procedure(s) and embassies/consulates that provide Visa for travel purposes.

19. Can we purchase training materials without attending a course?
    Unfortunately this option is not available as training materials are specially developed for courses.

20. Can course content be tweaked to cater to our needs?
    Of course! Just let us know your request and we will get the trainer to assist in carrying it out.
COMMISSIONING AND START-UP ACTIVITIES OF COAL POWER PLANTS: 22 – 24 MAY 2017, SINGAPORE

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<th>PER PARTICIPANT</th>
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<td>3 Day Programme</td>
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<td>SGD 2,900 Per Participant</td>
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*GST FOR SINGAPORE REGISTERED COMPANIES

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COMPANY DETAILS

Organisation name .................................................................................. Industry ...........................................................................................................
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Payment is due in full at the time of registration. Payment is mandatory for event attendance. I agree to PowerEdge Pte Ltd. payment terms

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- Fundamentals of Power Generation

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