

City of London - Application for Appointment to a City of London Board or Commission

Application

Please choose the Board or Commission you are interested in serving on: **Committee of Adjustment**

Contact Information

Name: **MOHAMED MOHAMED EL HADARY**

City: **London**

Province: **ON**

Postal Code: **N6E 2R3**

Experience and Qualifications

If you have experience on a London Board or Commission, please provide dates and details. (max. 3000 characters):

I don't have experience on a London Board or commission, but I have long experience in infrastructure projects management, supervision, feasibility studies, engineering, design and procurement.

What do you hope to contribute or learn as part of a Board or Commission? (max. 3000 characters):

I want to serve my community either through the creating and implementing the plans for infrastructure projects and apply the codes, standard and local regulations to avoid any risks for the public and enhance the projects or solve the public problems based on the lessons learned from previous matters or problems and our knowhow using the available tools and materials.

How will you support the work of a Board or Commission? (max. 3000 characters):

I will support the board, or the commission based on my long experiences in the several sides of the business in my Career and my background in the engineering, procurement and construction management

Please describe additional experience, training, or community involvement that will help you in your role as a Board or Commission Member. (max. 3000 characters):

I have over 30 years experiences in the project's feasibility studies, engineering, design, procurement and project management.

I have Bachelor, Master and PhD in Engineering and Design

I have four professional engineering licenses in Canada (PEO, PEGNL, NAPEG for Northwest and Nunavut Territories).

Attach resume or other document here, if needed: **MH-Resume-PhD-Gen-City-Sep. 15, 2022.pdf**

Attach more files here, if needed: **P.Eng. Certificate-PEO.pdf**

Confirmations

I declare the following: **I am a resident of London. ; I am at least 18 years old.; I am not a City employee or Council member.; I understand that my application and any attachments will be included on a public agenda that is published on the City website.**

To help inform our outreach activities, please tell us how you heard about this opportunity: (optional): **Other**

If you selected 'Other', please specify: **HIKMA**

Submitted on: **10/19/2022 12:09:35 AM**

Mohamed El Hadary, PhD., P.Eng., M.ASME

SUMMARY OF QUALIFICATIONS

Accomplished Managing Director bringing over 30 years of international and local experience in tender's preparation/evaluation, proposals, business and financial planning, engineering /design, procurement, construction management, coordination, site supervision and projects management. Reviewing, and approving engineering drawings (PFD's, P&ID's, layouts, and details), documents, deliverables, project schedules, man-hour and allocated budgets. Engineering, design, construction tenders, preparation, administrating the contract and provide engineering support from design stage, construction, installation stage, closeout stage and substantial inspection of the installation / construction, testing and commissioning of oil / gas facilities, large thermal power generation plants, cogeneration plants, , industrial plants, mining (concentrators & smelters), infrastructures, and buildings services fields. Demonstrated successful history of leadership, Feasibility Studies, Engineering, Design, Technical Consultations and Project Management accomplishments. Experience in participating in managing projects of values from US\$150 Million to US\$4,743 Million and adding valued changes to promote engineering, design, and operational development. Used multi-sides strategy to simplify the company's internal systems, enhance revenue and the profits.

SKILLS

- Health, safety, & environment (HSE) implementation.
- Decision making, identifying, and resolving engineering and construction field problems.
- Optimum engineering / design & construction solution
- Front end engineering design (FEED) and pre-project planning
- Projects management and executive leadership
- Quality assurance and quality control implementation.
- Tenders cost, man-hours estimation, proposals, and contracts preparation.
- Projects pre and detailed Feasibility Studies.
- Projects materials and equipment procurement.
- Multi disciplines (Civil, Structure, mechanical, piping, electrical and Instrumentation & Control) monitored, reviewed and coordination.
- Multiple EPC / EPCM projects management and coordination with stakeholders in addition to contractors from design to closeout.
- Projects progress, target schedule update, monitoring and follow up.
- Preparing, monitoring & improving company's business and financial planning for achieving business goals, strategies, success, profits, and growth.
- Team building skills and maintaining client's and consultant's relationships.
- Collection / sharing previous lessons learned as the projects progresses and applied them for next projects.
- Storage tanks, pressure vessels, sizing & data sheets
- Piping, pipelines, and mechanical systems sizing & hydraulic calculations, and welding procedures.
- Fuel, water, slurry & fire pumps, sizing, data sheets, selection and RFQ.
- Air / gas compressors, gas conditioning, compression systems, sizing, data sheets, selection and RFQ.
- Diesel engines, gas / steam turbines, combined cycle, sizing, data sheets, selection and RFQ.
- Heat exchangers, boilers sizing, data sheets, selection and RFQ.
- HVAC systems design sizing, selection, data sheets.
- Water and waste treatment plants design and selection.
- Mining and minerals concentrators & smelters process design, selection and RFQ's.
- Project basis of design, design criteria, mechanical equipment, materials, specifications, and selection,
- Projects field shop drawings and as-built drawings.
- HAZOP and HAZID review and risk assessment.
- Computer programs such as Microsoft Word, Excel, Outlook, MS Project, Power Point.
- Experience with engineering software's such as Fluid Flow, SIMFLEX-II, CAEPIPE, AutoPipe, Thermoflow (Heat Balance), Bentley hammer & HAP (HVAC).
- AutoCAD, 3D smart plant model, smart Plant P & ID's & piping, and equipment sizing & selection programs.
- Experience with Codes & Standards; ASME / ANSI, ASTM, API, NFPA, ASHRAE, CSA, IMC, OBC, Local Regulations and ARAMCO Standards.

EDUCATION

- Doctor of Philosophy (Ph.D.), Master (M.Eng.) and Bachelor (B.Eng.) degrees in Mechanical Engineering and Design.

WORK EXPERIENCE

Senior Mechanical Engineer, Westinghouse Electrical Canada-(EPCM) Power Generation, Pipelines, WTP, Infrastructure, Industrial, and commercial Buildings Services Fields -Bruce Power and Canadian Nuclear Laboratories (CNL), ON 2021-2021

- Prepared tenders, proposals, cost estimation, man-hours, engineering, conceptual design, of the power plant auxiliary systems, balance of plant, and water pipeline extension to the existing WTP from Bruce Power A to Bruce Power B.

- Prepared tenders, proposals, cost estimation, man-hours, and tender submission of the Boiler No. 4 economizer removal from building B420 & upgrade the air intake combustion air fans with all required activities for Canadian Nuclear Laboratories (CNL).
- Prepared tenders, proposals, cost estimation, man-hours, engineering, conceptual and developed the mechanical / piping detailed design drawings, rotating and static mechanical equipment sizing & selection, piping, and various pipelines sizing, hydraulic calculations, and developed the specifications for the power balance of plant and Industrial facilities. Reviewed and evaluate the existing mechanical / piping design systems.
- Engineering & design of the heating system for the service building-Douglas point plant-Canadian Nuclear Laboratories (CNL).

Engineering / Project Manager, ChemKleen Environmental Solutions- (EPC) Thermal Power Generation, Process Facilities, and Industrial Plants, Municipalities and Buildings Services Fields -Nunavut/ Northwest, Yukon, and Alberta, 2018-2020

- Prepared tenders, proposals, cost estimation, man-hours, conceptual and detailed engineering / design drawings, process flow diagrams (PFD's), piping and instrumentation diagrams (P & ID's), mechanical equipment, piping, various pipelines layouts and details of process, industrial, facilities plants and building services fields.
- Prepared piping / pipeline sizing, calculations, and analysis, rotating and static mechanical equipment, HVAC sizing, selection, and data sheets. Designed & sized WTP, WWTP, fire-fighting and prepared / reviewed piping stress analysis / pipe supports.
- Prepared design criteria, specifications, materials and equipment selection, data sheets, BOQ, RFQ's of the mechanical, piping, and instrumentation works. Site shop drawings due to site changes and vendor's bids/quotations evaluation and selection.
- Oversee project health, safety, and environment (HSE) procedures, various construction materials, budgets, target schedule update, subcontractors' invoices and implementation of codes, standards, and local regulations.
- Managed and handled multiple projects at Nunavut, including design review, materials procurement, and site supervision and project management of civil, structure, piping, mechanical, electrical, instrumentation and control construction/installation works.

Principal / Lead Engineer, Project Manager (assistant)-WorleyParsons, Eastern Canada (EPCM), Minerals, Metals, Power Generation & Oil/Gas: Alderon-Kami Iron Ore Project-Mining (NL) & Bahodopi Matte Refinery FEL 3 (PT Vale). 2012-2017

- Prepared projects feasibility studies, prepared, reviewed the project engineering / detailed design drawings (PFD/P&ID's), mechanical equipment / piping arrangement and details, design criteria, material specifications, materials, and equipment selection. Reviewed and approved design by agencies and vendor's technical / commercial offers.
- Managed site project management for construction / installation works of piping and mechanical systems according to codes, standards, local regulations and health, safety, and environment (HSE) procedures. Provided site construction, installation engineering and design technical support. Resolutions for design verifications, disciplines technical and construction interfaces. Monitored, reviewed, and evaluated all contractor's performance for the completed works and invoice's approval.
- Prepared piping/pipeline sizing and various calculations, and analysis. Rotating and static mechanical equipment sizing and selection. Site utilities WTP design, fire-fighting calculations and HVAC sizing, selection, and data sheets. Hydrotest calculations, and prepared / reviewed piping stress analysis / pipe supports.
- Prepared materials and equipment data sheets, bill of quantity (BOQ), and request for quotations (FRQ) of the mechanical, electrical, instrumentation/control works. Coordinated with Vendor's supplies and evaluated their technical and commercial bids/quotations then selected the distinguished vendors based on meeting the specifications, prices, and delivery period.
- Attend site weekly follow up meetings, defined the engineering, design, materials, and construction problems, issued report, proposed the resolutions, prepared actions list and responsible persons and execution period.

Senior Engineer, Fluor Canada Ltd. (EPCM), St. John's, (Change Management team) - Newfoundland, Vale Inco – Long Harbor Nickel Processing and smelting Plant– Mining, Minerals, Thermal Power generation & Oil/Gas Project; 2010-2012

- Prepared piping / pipeline sizing and hydraulic calculations. Rotating / static equipment, Designed & sized WTP, WWTP, fire-fighting calculations HVAC sizing, selection, and data sheets. Prepared / reviewed piping stress analysis / pipe supports.
- Issued materials request for quotations (RFQ), reviewed / approved design by agencies & vendor's technical / commercial offers.
- Verified the compliance of vendor's equipment offer with codes, Acts, CSA standards, health, safety, and environment.
- Monitored, supervised, and evaluated the site subcontractor's performance to ensure that all supplied materials, construction, and installation of the mechanical and piping systems works are meeting the project specifications, design drawings and in compliance with the codes, standards, health, safety, and environment (HSE) procedures and local regulations.
- Attend the regular site meetings, listed site problems, proposed the resolutions, issued report and actions list and responsible persons, and coordinate the work sequence and interfaces between the various project disciplines.

Engineering Manager / Project manager, Arabian BEMCO Contracting Co. (EPC), Jeddah, Saudi Arabia; Saudi Electricity Company, Saudi Aramco oil company, and Yanbu Petrochemical (Yanpet); Thermal Power Generation, Cogeneration, Pipelines, Industrial and Oil / Gas Facilities Projects; 1992-2010

- Prepared projects feasibility studies, tenders, proposals, cost estimation, engineering, conceptual and developed the detailed design drawings, process flow diagrams (PFD's), piping and instrumentation diagrams (P & ID's), mechanical equipment, piping, various pipelines arrangement and details.
- Prepared piping / pipeline sizing, calculations, and analysis. Rotating and static equipment sizing and selection. WTP design, fire-fighting calculations, HVAC sizing, selection, and data sheets. Prepared / reviewed piping stress analysis and pipe supports.
- Prepared /reviewed project conceptual and detailed drawings, design criteria, scope of work, specifications and material selection, issue BOQ's, RFQ's, evaluated vendor's technical / commercial offers, in compliance with specification, codes, standards, cost, and delivery period.
- Lead and supervised site and engineering / design team works and coordinated between multi engineering disciplines.
- Managed site construction management, coordination, supervision of the mechanical, electrical, instrumentation and control works activities in addition to site problems resolutions, till projects testing/commissioning and final completion.
- Monitored sites mechanical, electrical and control contractors' work and performance, ensuring they are applying the health, safety, and environment (HSE) procedures, meeting project specifications and in compliance with the codes, standards, and local regulations, approved the contractor's invoices and change orders.
- Hold regular site technical and project management meetings, defined the problems, proposing the resolution, issued report and actions list with responsible persons and execution period.

Senior Mechanical / Piping Engineer, Saudconsults Services Company, (EPCM), Al-Khobar, Abqaiq, Saudi Arabia, Saudi Aramco Oil Company-Saudi Electricity Company-Oil and Gas, Industrial & Power Generation Projects; 1987-1992

- Prepared tenders, proposals, cost estimation, conceptual and detailed design drawings PFD's, P & ID's, equipment, piping arrangement, various pipelines plant's layouts and details. Prepared scope of work, specifications & material selection
- Prepared piping/pipeline sizing, hydraulic calculations, rotating, and static equipment sizing, selection, and data sheets. Bill of quantity, Pipeline route, prepare / review piping stress analysis, hydrotest calculations & pipelines hot tapping connections.

Special Technical and Managerial Missions and Notable Completed Projects

1. Power and mechanical plant-diesel fuel system development projects (main fuel & day tanks, fuel pipelines, valves, fired boilers, & water heaters) for four identical locations (Engineering, Procurement, Construction and Project Management)-Rankin Inlet & Chesterfield Inlet, Nunavut, Canada-Value: \$2,350,000 completed in November 2020 – Title: Engineering & Projects Manager.
2. Power plant diesel fuel system development (main fuel tank, fuel pipeline, valves, and day tank) – Kugaaruk-Nunavut, Canada - Value: \$230,000, completed in October 2018 - Title: Engineering and Project Manager.
3. Kami Iron Ore Concentrator Plant Project (Engineering, Design, Procurement and Construction Management)-Labrador, NL, Canada-Value: \$120,000,000, started in 2012 and completed in 2015-Lead Engineer & Manager assistant (Mechanical & Piping)
4. Long Harbor Nickel Processing Plant, (Engineering, Design, Procurement and Construction Management) – St. Johns, NL Canada - Value: \$170,000,000 started in 2010 and completed in 2012 – Title: Senior Engineer (Mechanical & Piping).
5. Thermal Energy Storage System / Turbines Inlet Air Cooling system, Saudi District Energy, (Feasibility study, Engineering, Design, and Procurement) -Saudi Electricity Company, Saudi Arabia – Value: \$160,000,000, started in 2010 and completed in 2012 - Title: Consultant (Mechanical / Piping and Infrastructure Services).
6. Qurrayat Power Generation Plant, (Diesel, Crude and N. Gas Fired Turbines), 250 MW, (Feasibility study, Engineering, Design, Procurement and Construction management) Power and Water - Saudi Electricity Company, Saudi Arabia – Value: \$90,000,000, started in 2009 and completed in 2011-Title: Engineering / Project Manager and Consultant (Mechanical / Piping, Infrastructure and Building Services).
7. Riyadh Power Generation Plant No. 10, (Diesel, Crude & N. Gas Fired Turbines-Combined Cycle), 4300 MW, (Feasibility study, Engineering, Design, Procurement and Construction management) Power and Water- Saudi Electricity Company, Saudi Arabia-Value: \$4,743,000,000, started in 2005 and completed in 2010-Title: Engineering and Project Manager (Mechanical / Piping & Infrastructure Services).

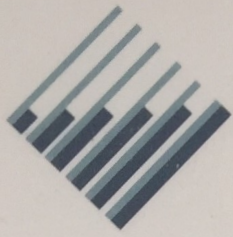
8. Qurayyah Power Generation Plant, (Diesel, Crude & N. Gas Fired Turbines-Combined Cycle), 3100 MW, (Feasibility study, Engineering, Design, Procurement and Construction management) Power and Water- Saudi Electricity Company, Saudi Arabia – Value: \$3,085,000,000, started in 2002 and completed in 2006-Title: Engineering and Project Manager (Mechanical / Piping, Infrastructure and Building Services).
9. Riyadh Power Generation Plant No. 9, (Diesel, Crude & N. Gas Fired Turbines-Combined Cycle), 2800 MW, (Feasibility study, Engineering, Design, Procurement and Construction management) Power and Water - Saudi Electricity Company, Saudi Arabia – Value: \$2,786,450,000, started in 2000 and completed in 2003-Title: Engineering and Project Manager (Mechanical / Piping, and Building Services).
10. Qassim Power Generation Plant, (Diesel, Crude and N. Gas Fired Turbines), 400 MW, (Feasibility study, Engineering, Design, Procurement and Construction management) Power and Water - Saudi Electricity Company, Saudi Arabia – Value: \$150,000,000, started in 1999 and completed in 2001-Title: Engineering and Project Manager (Mechanical / Piping & Infrastructure Services).
11. Asir and Jizan Power Generation Plant, (Diesel, Crude and N. Gas Fired Turbines), 320 MW, (Feasibility study, Engineering, Design, Procurement and Construction management) Power and Water - Saudi Electricity Company, Saudi Arabia – Value: \$120,000,000, started in 1997 and completed in 2000-Title: Lead Engineer.
12. Saudi Aramco refinery / gas plant flare stacks system modification, (Engineering, Design, Procurement and Construction/Installation) -Saudi Arabia – Value: \$8,000,000 started in 1996 and completed in 1998 – Title: Lead Engineer.
13. Riyadh Power Generation Plant No. 7, (Diesel, Crude and N. Gas Fired Turbines), 550 MW, (Feasibility study, Engineering, Design, Procurement and Construction/Installation) Power and Water - Saudi Electricity Company, Saudi Arabia – Value: \$206,250,000, started in 1992 and completed in 1996-Title: Senior Engineer.
14. Natural Gas, fuel oil, fire and services water pipelines, several sizes from 8” to 42”, 2 km to 44 km length-Power and Water - Saudi Electricity Co., KSA, Values between \$3,000,000 to \$100,000,000 completed on intervals periods thru 1992 to 2010 years.

REGISTRATIONS/AFFILIATIONS

- Professional Engineers & G. Northwest & Nunavut Territories, Canada (NAPEG), P. Eng. License. 2018-present
- Professional Engineers & G. Newfoundland Canada (PEGNL), P. Eng. License. 2014-present
- Professional Engineers Ontario Canada, (PEO), P. Eng. License. 2013-present
- American Society of Mechanical Engineers (ASME), member, USA. 1994-present
- Project Management Professional-PMP Certification process, Canada In progress
- Canadian Society of Mechanical Engineers (CSME), member, In progress

SPECIAL TECHNICAL EXPERTISE/SPECIALIST COURSES

- Thermal / Steam / Combined Cycle Power Generation Plant Heat Balance Calculation Training Course Using Thermoflow Software, Thermoflow, Inc., Jeddah, Saudi Arabia. 2009
- AutoPipe stress analysis software training course–Worley Parsons Toronto, Canada 2012
- Smart Plant Material Training Course- Worley Parsons Office, Toronto, Canada 2013
- Smart Plant Piping & Instrumentation Diagrams Training Course- Worley Parsons, Toronto, Canada 2013
- Bentley water hammer software training course-Worley Parsons, Toronto, Canada 2014
- Supervisor health and safety (HS) awareness certificate (Canada Safety Council), Canada 2020
- Personal protective equipment safety training certificate (Canada Safety Council) , Canada 2020
- Slips, trips, and falls safety training certificate (Canada Safety Council) , Canada 2020
- Fire safety training certificate (Canada Safety Council) , Canada 2020
- WHMIS safety training certificate (Canada Safety Council) , Canada 2020



Professional Engineers Ontario

L i c e n c e

Issued under the Professional Engineers Act to

Mohamed Mohamed El Hadary

Licence Number: 100146617

who is hereby entitled to practise as a

P r o f e s s i o n a l E n g i n e e r

in the Province of Ontario and who is registered as a member of
the Association of Professional Engineers of Ontario

Given under the Corporate Seal of the Association at the
City of Toronto this:

15th day of November, 2013

A. Beugnon, P. Eng.
President

[Signature]
Registrar

Association of Professional Engineers Ontario. This certificate is the property of the
Association and must be surrendered on revocation, cancellation, suspension or resignation.

