

DAVID WELLS, P.ENG.
SENIOR PROJECT ENGINEER

Education

University of Toronto, Mechanical Engineering BAsC., 1961

Continuing

Control Engineering Theory, University of Toronto

Education

Instrumentation, Cleveland State University

Electrical Power, A.I.E.E. Cleveland

Electrical Engineering, University of California

Engineering Economics, Bechtel Corporation

Maintenance Management, University of Toronto

Power Systems Co-ordination, General Electric Co.

Substation Application Engineering, Centre for Prof. Advancement, New Jersey

Mine Lighting, McGill University

Vibration Measurement IRD

Affiliations

Professional Engineers of Ontario (PEO)

Experience

2003 - Present Senior Project Engineer, John R. Hamalainen Engineering Ltd, Sudbury, Ontario.
Involved in projects in the mining, industrial, municipal and commercial markets.

2000 - 2001 Designer, Amec E&C Services. Design work for the relocation of electrical services at Creighton 8 shaft, develop procedure to construct the work in separate stages. Inco CC Mill design of electrical system for a truck unloading system. Inco upgrade to Kiruna Truck traffic control system at Creighton Mine.

1975 - 1999 Sr. Electrical Design Engineer/Supervisor Electrical/Instrumentation, Inco Ltd. General Engineering Department. Responsible for electrical design, equipment specifications for mining projects on surface and underground, field visits to check on construction progress and quality, experienced in electrical power calculations and short circuit analysis, familiar with EDSA electrical design program, application of engineering economics for feasibility justification, preparation of failure

modes effect analysis, bus bar design for electrolytic refining, industrial lighting design; supervision of up to 30 engineers and designers, work scheduling, performance assessment and drawing approval; development of an electrical safety program and member of technical safety committee; protective relay co-ordination; design of substation grounding per IEEE 80-1986; review and updating Inco engineering standards.

1986 - 1992 Lecturer in Electrical Engineering (Part time), Laurentian University

1970 - 1975 Maintenance Superintendent, Inco Ltd., Copper Cliff Copper Refinery. Responsible for budget preparation and control, safety program, maintenance contracts, labour relations; shops general foreman responsible for machine shop plate/welding shop carpenters painters and electric shop; chief maintenance planner Copper refinery for scheduling maintenance forces, supervising three planners and a small office staff.

1966 - 1969 Electrical Design Engineer, Bechtel Corporation, San Francisco, USA. Responsible for design and equipment specifications on various mining projects. Duties included panel design, single line diagrams, short circuit study, breaker and switchgear application, logic diagrams for control work, material control for a copper smelter in Chile.

1964 - 1966 Electrical Design Engineer, The Austin Co., Cleveland, Ohio. Electrical design work for a new cement plant in Hannibal Missouri.

1961 - 1964 Sales Application Engineer, The Square D Co. Toronto. Provided assistance to distributors, preparation of quotations for engineered equipment.