

# Rhonda Netzel, P.Eng/PE

---

## PROFESSIONAL MEMBERSHIPS

---

- Professional Engineer (P.Eng.), British Columbia, APEGBC
- Professional Engineer (PE), States of Washington, Alaska, Arizona
- NCEES registered
- IEEE member

---

## PROJECT HISTORY

---

Klohn Crippen Berger AMEC Ltd.	Snoqualmie Gen. Stn. Waneta Gen. Stn. Snap Lake Mine	<ul style="list-style-type: none"> <li>• Sr. electrical review and EOR</li> <li>• Specification review</li> <li>• Power system commissioning</li> <li>• Protective relay settings</li> </ul>
Fluor Canada	Safford Leach Project Cerro Verde Project	<ul style="list-style-type: none"> <li>• Power system study</li> <li>• Relay coordination and arc flash study</li> <li>• Power system analysis (load flow, fault study, grounding, harmonics)</li> <li>• 138kV protection and control design</li> <li>• Power system design and analysis (load flow, fault study)</li> </ul>
Terra Nova Technologies	El Abra, Sulfolix Project Pueblo Viejo Project Marlin Project, Glamis Gold	<ul style="list-style-type: none"> <li>• Power system analysis (load flow, fault study, relay coordination)</li> <li>• Heap leach stacking system commissioning (PLC, HMI and power distribution)</li> </ul>
AMEC Ltd.	Various mines world- wide	<ul style="list-style-type: none"> <li>• Engineering overview of stacking system design</li> </ul>
AMEC Ltd.	Pogo Mine	<ul style="list-style-type: none"> <li>• Power system analysis for new gold mine (load flow, fault, relay coordination, Neher-McGrath calculations for trench fill heating, charging current calcs for gnding, load shedding, emergency gen schemes)</li> <li>• Power system component specification and purchase</li> <li>• Power system and control system (Delta V) commissioning</li> </ul>
BC Hydro	GMS, PCN, REV, MCA, SEV, KCL,	<ul style="list-style-type: none"> <li>• Specify and provide installation instructions for a universal spare static exciter for BC Hydro's largest generators.</li> </ul>
BC Hydro	G.M. Shrum Gen. Stn.	<ul style="list-style-type: none"> <li>• Engineer-of-record for static exciter installation on four 250-300 MW units</li> </ul>
BC Hydro	Puntledge Gen. Stn.	<ul style="list-style-type: none"> <li>• Unit Control upgrade and river siren controls</li> </ul>
BC Hydro	Various BCH sites	<ul style="list-style-type: none"> <li>• PLC Based Standard Alarm Panels</li> </ul>
BC Hydro	Burnaby, BC	<ul style="list-style-type: none"> <li>• PLC Based Plant Synchronization Panels</li> </ul>
Pacific Power Consultants	Burrard Thermal	<ul style="list-style-type: none"> <li>• Distributed control system implementation on 3-150MW gas-fired thermal generators</li> </ul>
AMEC Ltd.	Pend Oreille Mine	<ul style="list-style-type: none"> <li>• Re-start of underground mine and surface concentrator</li> <li>• Major power system modifications</li> </ul>
AMEC Ltd.	Red Dog Mine	<ul style="list-style-type: none"> <li>• Power system expansion</li> <li>• 5MW generator addition</li> <li>• Flotation addition</li> </ul>
BC Hydro	Hugh Keenleyside Nav. Lock	<ul style="list-style-type: none"> <li>• 4 x 200 hp VFDs for hoisting operation</li> <li>• upgrade to PLC based control system</li> </ul>

Cominco, Alaska	Red Dog Mine	<ul style="list-style-type: none"> <li>• 3000 hp ball mill and 3000 hp sag mill additions</li> <li>• Gyrotory crusher</li> <li>• Reagent, dewatering and grinding additions</li> <li>• Power distribution system modifications</li> </ul>
Cominco, Alaska	Delong Mtn. Terminal	<ul style="list-style-type: none"> <li>• Feasibility study for deep sea port facility</li> </ul>
PT Inco, Indonesia	Soroako Nickel Mine	<ul style="list-style-type: none"> <li>• Construct/commission sulphur melting plant</li> </ul>
BC Hydro	G.M. Shrum Gen. Stn.	<ul style="list-style-type: none"> <li>• Sequential event recorder</li> </ul>
BC Hydro	VIT/ARN	<ul style="list-style-type: none"> <li>• HVAC PLC program in Concept</li> </ul>
BC Hydro	EPRI	<ul style="list-style-type: none"> <li>• Guidelines for Life Extension and Modernization of Hydro Plant- Protection and Control manual</li> </ul>
BC Hydro	Van. Island Terminal	<ul style="list-style-type: none"> <li>• Synchronous condenser control system and static exciter upgrade</li> </ul>
BC Hydro	Seven Mile Gen. Stn.	<ul style="list-style-type: none"> <li>• Dead bus synchronization/close control upgrade</li> </ul>
TwinPak	Langley, BC	<ul style="list-style-type: none"> <li>• Laminator, winder and mandrel handling control upgrade</li> </ul>
Westcoast Energy	Aitken/ Flatrock Ck.	<ul style="list-style-type: none"> <li>• Metering station control upgrade</li> </ul>
Doman Forest Prod.	Vancouver, BC	<ul style="list-style-type: none"> <li>• Sawmill sorter PLC software upgrade</li> <li>• Planar mill sorter PLC software upgrade</li> </ul>
BC Hydro	Dunsmuir Substation	<ul style="list-style-type: none"> <li>• Static VAR Compensator addition</li> </ul>
BC Hydro	John Hart Gen. Stn.	<ul style="list-style-type: none"> <li>• Generators 1-6 control system upgrade</li> </ul>
Cominco, AK	Red Dog Mine/Port	<ul style="list-style-type: none"> <li>• Apron feeder addition</li> <li>• Sulphur Flotation addition</li> <li>• Fuel Island control system upgrade</li> <li>• Port facilities commissioning</li> </ul>
Cominco Ltd.	SNIP Gold Mine, BC	<ul style="list-style-type: none"> <li>• Diesel generator/ power sys. commissioning</li> </ul>
Cominco Ltd.	Trail	<ul style="list-style-type: none"> <li>• Power system expansion fault studies and relay coordination</li> </ul>
State Gold Mining	Prestea, Ghana	<ul style="list-style-type: none"> <li>• Slack rope detector project</li> </ul>
BC Hydro	Revelstoke and Seven Mile Gen Stns	<ul style="list-style-type: none"> <li>• Control System Operation, Maintenance and Troubleshooting manuals</li> </ul>

Please note that only major projects have been listed.