

Gary O. Gallagher

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Summary of Power Industry Experiences:

Extensive in-depth experience, both academic and practical, gained as a result of over 35 years working in both the telecommunications and power distribution industries. Over 32 of these years were spent in the role of advanced technical support with Bell Aliant and its predecessor companies. Accountability included all aspects of both AC and DC power, including management and support of solar and wind generation systems. Additionally, for about three years I worked with the provincial hydro company, Newfoundland Power, where I was responsible for all aspects of power utility generation, switching and transmission.

Telecommunication Power Related Experience:

- 2006-2008** Motion Networks Inc - As part of a consulting contract with a major supplier of video and data services in the Caribbean, I supervised and commissioned a total of six head-end and feeder sites with large DC power plants. These sites consisted of a total of 10 1200 amp power bays with some 16 1500AH battery strings. This included all pretesting, grounding, calibration, and connectivity to power monitoring systems, as well as all secondary distribution, installation and testing of emergency disconnects, and production of as built drawings, battery performance results and minor training to on-site technicians. I was the prime interface with the local AC engineering consultants and electricians regarding selection of proper cable sizing, parts and grounding methods.
- 1985-2005** Bell Aliant – As a member of the Aliant technical advanced support (ATAS) team, I was responsible for providing advanced support (level three) for a variety of telecommunication equipment such as: DC Power Systems including solar and wind; battery installations and grounding measurement and design; performance monitoring of UPS, converters and inverters; power system monitoring, telemetry and data acquisition; AC power analysis and fault investigation.

Hydro Power Distribution Experience:

- 1969-1971** Newfoundland Power – I participated in an accelerated training program covering a wide array of power utility company areas of expertise - all areas of power transmission and distribution, electric heating, substation control, operations center control, overhead and underground power distribution and lighting design. I then managed the engineering and supervised the construction of over 50 km of 66KV power transmission line, as well as hundreds of kilometers of 12.5KV and secondary distribution feeders. I conducted many pre-qualification studies on new equipment.

Academic Education:

- Diploma of Technology (Electrical Engineering Technology) from the College of the North Atlantic (CONA)
- Member of AETTNL as a Certified Engineering Technologist (CET - Electrical)

Employer Sponsored Power Training: (Partial Listing)

- Positron Teleline Isolation Power – Halifax, Feb 2003
- Compower power systems and monitors
- CSA Canadian Electrical Code
- Grounding & Bonding of Electrical Systems - DalTech

Other International Assignments:

November 2002	Mid Maine Communications, Bangor, Maine - Contracted to Nortel Networks (Richardson Texas) as a consultant to perform a broadly based switch analysis of two DMS-10's Generic 502/503 and compile a report detailing system irregularities recommendations for improving the performance of the overall system. System had been experiencing on-going unidentified failures.
July - November 2002	DayStar Communications, Port Charolette, Florida - Consultant for their voice switching, transport and power systems. I acted as team leader for their switching and power commissioning of their new CLEC (Independent Telephone Company) operating in the Tampa Bay area. I implemented their VoDSL platform, and studied and selected the IAD (Integrated Access Device) to implement service out to their subscribers. Under contract to Aliant International, I tested and commissioned five Nortel power plants.
April 2001	Beehive Telephone, Kansas – Under contract from Nortel Networks, I upgraded their Nortel switch from generic 410.10 and 412.20 to generic 501.
July 1999	Ponderosa Telephone Company, O'Neils, Fresno, California – Under contract from Alta Telecom, I completed troubleshooting of network backplane, and completed installation and modification of cables for a second network group DMS-10.

Training Instructor:

- AccessNode OAM&P - 25 students, St. John's, March 2002
- AccessNode with UE9000 - 5 students, Seal Cove 2001
- DMS-10 Maintenance - 5 students, St. John's, June 2001
- DMS-10 Commissioning - 5 students, St. John's, April 2001
- DMS-100 Supernode Hardware Commissioning - 6 students, Halifax, Oct 2000
- DMS-10 Troubleshooting and Maintenance - 2000

- Grounding, troubleshooting, and measurement of internal and external telecommunications structures - 1999
- DMS-10 Maintenance and Troubleshooting (8-days) - 8 students, Winnipeg, 1999
- Vidar ITS4/5 Maintenance and Troubleshooting -1997
- Outside plant noise and power influence analysis - 1996

Technical Interests:

- Classroom instructing of power and telecommunication theory
- On site Training - hands on experience
- System turn-up and commissioning
- Troubleshooting difficult switching problems
- Troubleshooting AC and DC power related problems
- Grounding and bonding evaluations, including site survey's and solutions
- Software and hardware upgrades DMS-10, DMS-1U, SL-1, Etc.
- Remote technical support
- Power monitoring and power quality (AC/DC) inspections
- Switch translations - DMS-10, Redcom, Meridian 1 (both on-site and remote)
- Operations Center support and network management
- Administration
- Project Management

Personal Interests:

- Chair of the Board of Directors of the Manuels River Natural Heritage Society, Conception Bay South, NL
- Executive Member and Past Grand Knight (4 years) of Council 9303 Knights of Columbus, Manuels, Conception Bay South, NL
- Former Director of the NewTel Credit Union Limited
- Member of the Aliant Pioneers Association