

MARC A. MANTHA, P.ENG.

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EDUCATION

UNIVERSITY OF OTTAWA
Bachelor of Applied Science (Electrical Engineering), 1981
Specialization in Power and Control Systems

EXPERIENCE

H2O POWER LP
OSHAWA, ONTARIO
Vice President, Operations, May 2011 – present

Manage and supervise the operation of the Company's hydroelectric generation and transmission assets, including daily operations, water management, strategic planning, maintenance and engineering. Manage and direct a staff complement charged with real time operations and water management assigned to these facilities. The facilities include 8 generating stations totalling 48 units, along with associated transmission and distribution assets, 2 control dams and 3 watersheds.

ABITIBIBOWATER INC
OSHAWA, ONTARIO
ACH Operating Manager, May 2007 –May 2011

Manage and supervise the operation of the Company's Ontario hydroelectric generation assets, including daily operations, water management, strategic planning and engineering. Manage and direct a staff complement charged with real time operations and water management assigned to these facilities. The facilities include 8 generating stations totalling 48 units, along with associated transmission and distribution assets, 2 control dams and 3 watersheds. Provide guidance to the Company's Ontario load assets on matters relating to energy policy and developments.

Major accomplishments include establishment and start-up of a new state of the technology control center, recruitment, selection and training of the assigned staff and development of associated procedures manual.

NORTH BAY HYDRO

NORTH BAY, ONTARIO

Manager, Operations, March 2005 – April 2007

Manage and direct the Utility's Engineering, Lines and Stations operations, including daily operations, maintenance, capital program and strategic planning. Manage and direct a staff complement of both non-union and unionized staff assigned to these facilities. The facilities include 16 municipal substations and a network of 4, 12, 22 and 44KV distribution lines.

ABITIBI CONSOLIDATED COMPANY OF CANADA

IROQUOIS FALLS, ONTARIO

Power Manager, November 1998 – March 2005

Manage and direct all aspects of the Abitibi Consolidated-Iroquois Falls generation and transmission operations, including daily operations, maintenance, water management, capital program and strategic planning. Manage and direct a staff complement of 3 non-union and 16 unionized staff assigned to these facilities. The facilities include 3 hydro-electric generation stations totalling 92 MW of capacity, 120 km of 115KV transmission lines and 10 km of 12 KV sub-transmission lines and a distribution bus delivering over 120MW of power to the Mill facilities.

Major accomplishments: (1) determined feasibility and secured funding for the redevelopment of the Iroquois Falls Generating Station. (2) oversaw execution of the Iroquois Falls GS redevelopment project (completed December 2004).

TEMBEC - SPRUCE FALLS INC

KAPUSKASING, ONTARIO

Electrical & Instrumentation Maintenance Engineer, June 1996 – October 1998

Provide engineering support for the maintenance and modifications of power distribution facilities associated with the Spruce Falls Inc mill. Provide engineering support for all electrical aspects of the mill's TMP (thermo-mechanical pulping) facilities. Develop and monitor preventive maintenance practices associated with these areas. Monitor equipment and system performance and develop corrective measures as required.

Major accomplishments: (1) investigated and corrected numerous protection deficiencies which had been causing a series of power interruptions. Reduced outage rate from 18/yr to 0 internally caused outages. (2) designed & installed power system monitoring system including real time control & metering, data logging and sequence of events monitoring.

ALGONQUIN POWER SYSTEMS, INC

Regional Supervisor - Operations, October 1993 - June 1996

Manage the operation of four hydroelectric generating stations and the staff assigned to their operation. Prepare, implement and monitor preventive maintenance programs for all aspects of the facilities, including electrical, mechanical and civil disciplines. Train staff in all aspects of plant operation. Provide engineering and operations support for other Algonquin Power projects, including both active and proposed projects.

Major accomplishments included: (1) devise and implement a maintenance and operation program for the Carmichael Falls generating station which brought the facility from a performance rate approaching 60% to well in excess of 95%. (2) Design, install and commission a 115KV switching station for the Nagagami Shekak NUG plant to connect the project to the Ontario Hydro grid.

ONTARIO HYDRO

District Protection and Control Supervisor, Kapuskasing District, February 1990 - October 1993

Supervise, direct and administer a staff of 10 engineers, technologists and support staff in the execution of the section's maintenance and capital work programs as related to the protection, control and telecommunications facilities associated with 4 large generating stations, three transmission stations and various distribution facilities. Review proposed capital works programs at both proposal and implementation stage for suitability, and oversee field engineered projects. Act as Management representative on the local Health & Safety Committee.

Regional Operating Supervisor, London, January, 1988 - February, 1990

Duties included overseeing the day to day operations of the Regional power system and the staff directed to manage it. Additional duties included initiation and review of plans to upgrade/modernize facilities within the Region, monitoring equipment performance and providing technical guidance relative to power system operation. Consultation and coordination with other Operating authorities (Corporate, Regional and public utilities) was also a key task.

Protection and Control Engineer, Kapuskasing District, May 1981 - December 1987

Duties involved the commissioning, maintenance, analysis and troubleshooting of protection, control metering and telecommunications equipment necessary for the operation of four large hydroelectric generating stations and two transmission stations. Act as coordinator for major projects. Analyze abnormal events and prepare recommendations for correction/avoidance of these.

OTHER

- Ontario Waterpower Association (2000 – present). Founding member and Director. Held positions of Treasurer (April 2000 – November 2004), Chairman (November 2004-February 2005), Vice Chair (January 2008 – present).
- Registered Professional Engineer with PEO. License #90412883.
- Fluently bilingual