

**BENJAMIN J. GALLAY**

**EMPLOYMENT HISTORY**

|               |                                                                                                                                                      |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2007- Present | <b>Xcel Energy, Minneapolis, MN</b><br>Principal Engineer (2018-Present)<br>Senior Engineer [CMT] (2010-2018)<br>Transmission Engineer (2007 – 2010) |
| 2001 - 2007   | <b>NEI Electric Power Engineering, Inc., Denver, Colorado</b><br>Design Engineer                                                                     |

**EDUCATION**

|           |                                                                             |
|-----------|-----------------------------------------------------------------------------|
| 2001      | B.S. in Electrical Engineering, University of North Dakota, Grand Forks, ND |
| 2002-2007 | Masters level studies, Colorado School of Mines, Golden, CO                 |

**LICENSES, TRAINING & MEMBERSHIPS**

- Professional Engineer – North Dakota, Michigan, Wisconsin, Minnesota, and Colorado
- Senior Member IEEE, (2000-Present)

**WORK EXPERIENCE**

I. **Xcel Energy** *Principal Engineer [Transmission] (2018-Present)*

*Under general direction, demonstrates complete understanding & wide application of engineering technical principle, theories, & concepts in the field. Independently determines & develops approaches to solutions. Provides work direction to other professionals &/or staff. Represents the organization in providing solutions to difficult technical issues associated with specific projects. Frequent inter-organizational & outside customer contact. Demonstrates a broad knowledge & proficiency of precedents in the specialty area, a good knowledge of related specialties, & general knowledge of other related disciplines.*

- Standards & Technical Committee
  - Seated on 9 committees, 6 as chair or vice chair and a resource for called in for expertise and opinions on many other line and substation committees.
- T-line Material Team Lead
  - Generated an unofficial engineering and design team responsible for review and standardization of all t-line hardware across all regions.
- T-line engineering representative for Conductor and OPGW
  - Generated the past several and existing Supply Chain sourcing contracts for overhead conductor and OPGW
- T-line engineering representative for Legal Affairs
  - Since 2013 I have been the lead technical witness for the NSP region
    - Started as part of the CapX team, due to my success I have been requested to testify on a wide range of Xcel projects.
- T-line engineering representative for Construction Training
  - Since 2015 I have generated and presented engineering updates section of the annual lineman training for NSP.

II. **Xcel Energy** *Senior Engineer [Consultant Management Team] (2010-2018)*

*The primary function of a staff engineer on the Engineering Outsourcing Consultant Management Team is as an internal supervisor of external contracted engineering personnel. CMT engineers monitor both the technical competence as well as the project efficiency and manage workload and team composition of external resources to ensure effective project design. On an annual basis I am responsible for the*

*management of some 20+ active major projects with a crew of 40+ consultant engineering and design staff. In addition to this primary role on the CMT team I have continued to function as a subject matter expert for the internal Xcel transmission staff on technical topics as well as company policy and procedure creation, updates, and revisions. Highlights of this work are listed below:*

- CMT T-line Engineering Development
  - Responsible for guiding the selection and development of high-quality consultant assets onto the 'Xcel Teams' within various consulting firms.
- Cap X 2020
  - Electrical Engineering team member for development of project design specifications.
  - Transmission line engineering team member for route permitting.
  - Engineering review resource for transmission line sections designed by external consultant engineering resources.
  - Primary expert witness for permitting and land acquisition hearings with state and county jurisdictions.
- Sioux Falls Loop
  - \$42M project group including nine individual line construction project totaling \$22.6M designed and constructed over a two-year period.
- Stone Lake to Radisson
  - \$24M project group including six individual line construction project totaling \$12M designed and constructed over a two-year period.

### III. Xcel Energy

*Transmission Engineer (2007-2010)*

*All projects while working with Xcel Energy have required extensive project coordination and management of budget, schedule, and materials on a weekly basis. Highlights of these responsibilities are listed below.*

- Hiawatha Project – Engineering support of project permitting and routing
  - 115kV Transmission line cost estimate both overhead and underground options
  - Responsible for transmission line engineering and construction sections of the route and permit applications
  - Direct testimony at route application hearings.
    - Line Design.
    - Line Construction.
    - Line Cost Estimates.
    - Line EMF calculations and impacts.
- Transmission Environmental Planning (TEP) Working Group
  - Transmission Engineering Representative.
  - Trapezoidal wire evaluation team lead.
- Transmission Line Switch Replacements
  - Transmission Line Switch Subject Matter Expert (SME)
  - Over 15 transmission line switch replacement projects, 69-115kV
- 500kV Insulator Replacement – Line(s) 5702 and 5703 polymer insulator replacement.
- Transmission Line EMF calculations, mitigation design, and public relations.
  - Primary Resource for transmission line EMF calculations.
  - Resource for EMF testimony for state and local route applications.
  - Resource for news media information requests.
  - Resource for landowner information requests.
- Transmission Line Engineering Policy and Procedure coordinator
- Engineering review of line refurbishment projects and material ordering.
- Engineering review of line relocation projects and material ordering.

**IV. NEI Electric Power Engineering, Inc.**

*Electrical Engineer (2001 – 2007)*

*Work with NEI had particular focus on protective relay setting development and fault analysis. My focus 2005-2007 being in the SCADA and HMI controls aspect as well as field investigation of fault incidents.*