



NEW TOWER, RIGHT DESIGN

You only get one chance to design a communication tower to meet any challenges it may face throughout its lifespan. No tower is ever completely 'future-proof' due to the rapidly advancing technology and standards, but you can extend the usefulness and prosperity of your investment by involving the right people from day one.

Recently, Mudge Engineering Associates Inc. provided design considerations for a 180 meter tower near Bathurst, New Brunswick. The new structure was required to replace an existing tower that had been standing for over 50 years. Working with the Customer, our team was proud to provide considerations for several design decisions, such as:

- **SITE SELECTION** – Through an iterative process, choose the best location for a new tower while optimizing Line of Sight to other existing towers. Provide Coverage Predictions and Topology Analysis so the new structure is in a position that best fits the customer requirements.
- **INITIAL AND FUTURE LOADINGS** – To prevent re-designs and reinforcing of the structure in the future, provide accurate initial and future loading considerations. Include increases to site specific wind criteria to enhance the carrying capacity of the tower.
- **BUILDING DESIGN** – To facilitate expansion in the telecommunication shelter, provide ample room for additional bays and equipment. Enhance survivability of the site by providing a separate protective ice shield for building and exterior equipment, as well as providing optional generator feed for emergency power.

Although you cannot predict everything, proper planning of your new tower can go a long way to ensuring your needs are met. Get the Right Design today and have confidence in your tower's future!



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