

ICE ENGINEERING

NOR-EX provides detailed engineering and Ice Bearing Capacity Design for:

- Ice Roads and Ice Bridges
- Drill Pads
- Ice Airstrips

NOR-EX develops proven and comprehensive Quality Assurance programs for all ice designs.

Floating ice on rivers and lakes can be designed, constructed and operated to support heavy vehicles (100 tonnes) and large volumes of traffic. Stationary loads, such as bulk sampling drill rigs, can also be safely supported by floating ice platforms designed for longer term operations. NOR-EX can also assist with Ice Airstrip design (C-130 or Boeing 737 capable) to economically support mobilization of equipment and personnel to remote areas.

In all cases, ice design is carried out as part of an overall risk management framework where the quality assurance plan is integral to successful operations.

CASE STUDY

PROJECT DESCRIPTION:

A client had a series of specialty loads that required hauling over an existing ice road that exceeded the general operating specifications for the public ice road. The timely transportation of the equipment was essential to a production schedule that was under time constraints.

SCOPE OF WORK AND SOLUTION:

NOR-EX conducted a detailed ice stress analysis on the load configurations and provided guidance on a focussed quality assurance program that enabled the client to safely transport their loads in advance of the anticipated timeframe. A series of temporary and comprehensive control measures were put into place and verified to enable special permitting to be authorized for the safe transportation of the loads.

RESULTS:

The client was able to safely accelerate their mobilization schedule and obtain an early start to their project.



In 2012, NOR-EX provided ice engineering to the Tibbitt to Contwoy to Winter Road Joint Venture for 6000 loads and vehicle weights up to 110,000 tonnes.

norexice.com

Yellowknife • Edmonton • Ottawa • Kamloops

250-682-8834 | info@norexice.com