

# CASE STUDY

## Utilities & Power

### Project Specs

**Location:** Toronto, Canada

**Application:** Airlock Ramps at Pickering Nuclear Generating Station

**Product:** High Load Capacity Molded Grating

### Overview

Located on the shores of Lake Ontario just east of Toronto and nestled in the community of Pickering, is one of the world's largest nuclear generating facilities, the Pickering Nuclear Generating Station.

Pickering Nuclear has six operating CANDU (Canadian Deuterium Uranium) reactors. Together the station has a total output of 3,100 megawatts (MW), enough to serve a city of one and a half million people.



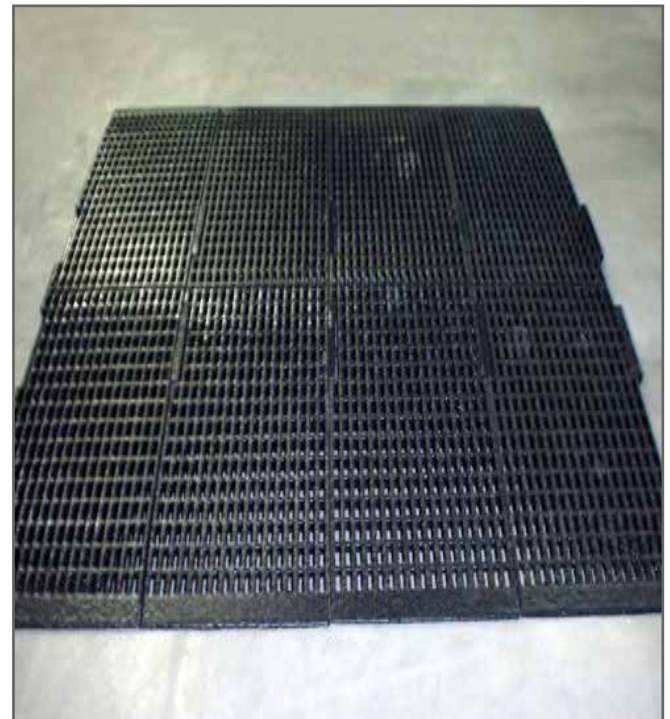
### Problem

The Pickering Nuclear Generating Station requested a light-weight, durable, portable ramp system for transporting forklift and cart traffic through the Airlock System. The ramp system was required to withstand a concentrated load of 4,666 lbs applied to an area of 4" x 2".

### Solution

Fibergrate's solution was to design and engineer a High Load Capacity Molded Grating Ramp System. Material testing and drawings were completed to ensure all requirements specified were met.

2" thick Grating was machined to 1/4" thick and the "Bridge Area" was machined down to 5/8" thick to carry over the steel lip in the Airlock doorway. Rhino Tuff Grip was applied for added durability and a 1/2" thick FRP Flatsheet was used to create a removable kickplate.



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