



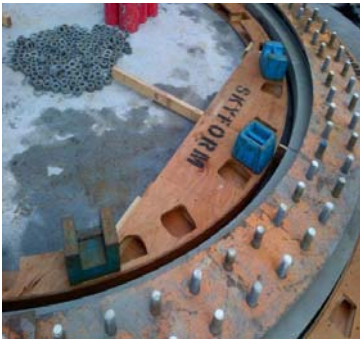
**Scope of Works** – Wind Turbine Base Grouting

**Client** – Raymond Brown Construction

**Location** – Kildrummy, Aberdeenshire

## Project Details

A new addition to the services we provide to our Wind-farm clients is the expertise of our Specialist Contracts Division during the installation of turbine bases. At the Kildrummy site our operatives undertook the grouting of the load ring once it has been set in required position, this work requires great attention to detail as the position of the Load Ring is critical for the efficient operation of the completed turbine.



The works were undertaken in the following sequence in strict accordance with the material manufacturers' guidelines:

- The concrete surface is thoroughly cleaned using high pressure water jetting equipment.
- The surface is then thoroughly wetted down until it is saturated, it is critical that the grout is not onto a dry concrete surface.
- Purpose built timber formwork is secured on either side of the load ring to contain the works.
- A rubber barrier is placed at the starting point of the pour to ensure a proper joint in the pour, this item is removed shortly before the end
- The grout is mixed using a Putzmeister mixing unit and pumped from only one side of the load ring until it reaches the top of the foundation.
- Before it begins to cure the grout is disturbed with a metal poker to ensure that there is no air trapped in the mix.
- If necessary a heated and tented enclosure formed to ensure that the required minimum temperature of 5 degrees is maintained during the curing period.

