

Onsite Machining & Controlled Bolting Milling of Bearing Pads



Scope

ICR were approached by an Aberdeen-based fabrication company with regard to the machining of bearing pads on an offshore power generation module.

The power generation module contained 3 off bearing pads, welded to steel work and used to provide a level footprint for mounting the power generating unit within the module.

The pads had been welded to the steelwork and were not level to either the module datum or each other. Surveying services had been used to provide flatness datums and material removal sizes for setting up the machining equipment. The machining equipment had to be able to span each plate and be clamped rather than welded to reduce requirement for hot work.

Solution

ICR technicians - together with a suitable size gantry mill - were mobilised to carry out this operation. The milling machine was set up to the survey datums and material was machined from the pads to bring them flat to the module datum and at the same level as each other.

Results & Benefits

- Following the machining operation an additional survey was carried out which confirmed that the pads were well within the required tolerance