

Goodwin Steel Castings
Ivy House Road
Hanley, Stoke-on-Trent
ST1 3NR

30th September 2017

Dear Mr. Roberts,

I would like to say how pleased we are that Goodwin Steel Castings Ltd (GSC) is becoming a member of Castings Technology International (Cti). We have been very interested in GSC joining us for many years as we have seen from afar the significant progress that has been made by GSC in growing the business as well as developing new alloys and techniques. It is this innovative business progression that GSC has nurtured over the past few years that we seldom see elsewhere that most excites us by GSC joining Cti.

Having witnessed GSC's specialist knowledge and experience in the production of heavy section stainless, duplex and nickel alloy castings, your participation will be an invaluable asset during future research and development proposals.

Similarly, we are as impressed that in super duplex you have found a way to consistently pass the G48 elevated temperature corrosion resistance test with a 20% increase in test temperature. Cti itself has a good history in these alloys, and whilst have not had any issues at the standard test temperatures of 50°C, GSC has certainly conducted extensive testing over a wide range of sections, with excellent supporting evidence for this test regime at 60°C. This could be of great interest to anyone concerned with the long term corrosion of super duplex as well as in desalination applications where there are pipelines exposed to the sun, temperature can reach high levels when the plant is not in operation.

We are also interested in understanding how GSC can achieve LCC impact properties consistently over 4 times that of the required 27 Joules at -49°C, thus allowing the material still to be ductile at -75°C. This innovation could allow stainless steel to be replaced by carbon steel if the temperature does not fall below -75°C. Stainless steel is today's obvious choice but this capability could see a change in that.

Cti as an organisation engages with producers and buyers to facilitate a true value added benefit to business and, by having GSC as a member of our organisation, this increases the value we can offer to our clients in your areas of world class expertise.

We look forward to engaging with Goodwin and introducing you to organisations with casting problems. GSC is in a privileged position with a depth of knowledge and technical resource in this field that few others share.

Yours Sincerely,



Will Jeffs

Technical Development Manager
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Advanced Manufacturing Research Centre

