

ForCAST

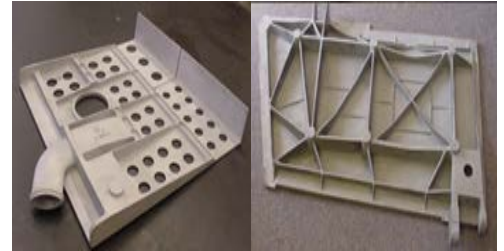
The Newsletter of the American Metalcasting Consortium

Summer 2020



Impact of Requiring NADCAP-Approved Heat Treatment Facilities for Castings

In September 2019, the Defense Logistics Agency (DLA) Aviation Casting and Forging Summit sought to uncover the reasons for sourcing issues, long lead times, and delays in procurements and deliveries of cast and forged components. One culprit was a requirement to use National Aerospace and Defense Accreditation Program (NADCAP) heat treatment facilities. NADCAP heat treaters are not typically located near metalcasters and do not have the experience to accurately and quickly straighten castings before they stiffen and can't be further adjusted. These drawbacks cause an increase in suppliers choosing to no-bid and an increase in probable scrap, thus reducing the willing supply chain for aluminum and magnesium castings (where this requirement is present) by 50% and increasing the cost by 40-70%. CAST-IT proposed removing the NADCAP-approved heat treatment requirement and instead allowing metalcasters to use the heat treater of their choice and then certify tensile test coupons associated with the casting using a NADCAP-approved nondestructive testing (NDT) laboratory.



Complex shapes, lofted contours, and ranginess that are common in castings make them more susceptible to distortion during the heat treatment process and therefore require more expertise to correctly heat treat and straighten.

To read more about this, view the full article [here](#).

AFS Metalcasting Congress

Due to COVID-19, the AFS Metalcasting Congress 2020 was cancelled. It is the first time the Congress has been cancelled since 1945. AFS is developing plans for an exciting Metalcasting Congress in Milwaukee, Wisconsin on April 13-15, 2021 where they will be celebrating the 125th anniversary of AFS. Please be sure to mark your calendars for AFS Metalcasting Congress 2021.

AMC Conducts a Successful Technology Review – Virtually

The 2020 AMC Technology Review was held virtually on June 23-25, 2020. During this three, half-day event, AMC's Innovative Casting Technologies (ICT) and Casting Solutions for Readiness (CSR) project teams presented their R&D results. Over 75 program and research leaders from industry, academia, and government attended as each of the project teams demonstrated how they are continuing to support DoD's need for rapid production of high-performance, cost-effective cast parts for weapons systems.



Visit AMC Live in the Virtual Booth & Technical Presentations at NADCA's 2020 Virtual Die Casting Congress & Tabletop

The event will be held **October 20-22, 2020**, as a live virtual event. This event will include three days of Congress sessions from the safety of your home or office. Click [here](#) for more details.



For more information about AMC go to <https://amc.ati.org> or call 843-760-3483.