

PRESS RELEASE

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Steel Dynamics Inc., Pittsboro places order for Tenova Technology Suite for their EAF

Tenova to implement NextGen[®], iEAF[®] and Water Detection Technology[®] to improve SDI EAF furnace process

Mississauga, July 12, 2018 – Steel Dynamics Inc., at Pittsboro (Indiana, USA), is the second SDI plant to place an order for Tenova's proprietary off-gas process control and water detection technologies. With this order, SDI Pittsboro will install Tenova's hybrid extractive/laser **NextGen[®]** off-gas analysis system, **iEAF[®]** dynamic process control system and **Water Detection Technology[®]** (WDT[®]) as a fully integrated solution on the plant's 100 ton AC EAF.

When fully implemented, Tenova's combined technologies will bring a number of **cost saving, operational, productivity, safety** and **environmental benefits** including reduced electrical & chemical energy consumption, reduced electrode consumption, water leak detection, increased productivity and yield and reduced GHG emissions.

The SDI Pittsboro installation represents the third order of this complete, fully integrated NextGen[®], iEAF[®] and WDT[®] solution in the United States and will provide SDI Pittsboro with the world's most comprehensive technology package of off-gas based EAF process control technology.

Tenova's technological package combines the best in EAF process automation, thermodynamic models, process hardware, innovative temperature/velocity sensor technology, and water detection to offer the steel industry the best in-class EAF furnace control available.

NextGen[®] is a hybrid laser/extractive off-gas analysis hardware system that delivers faster analytical response times, requires minimal maintenance and reduces hardware and installation costs. NextGen[®] enables the operator to monitor and control furnace conditions helping to mitigate operational risk.

iEAF[®] Modules 1, 2 and 3 use NextGen off-gas analysis plus Tenova's proprietary optical off-gas temperature & flow sensors, a link to the plant's PLC network and a real-time mass & energy balance to dynamically control and optimize chemical energy & electricity consumption and improve endpoint control to maximize operating cost savings, reduce electrode consumption, increase yield and reduce power on time.

Tenova's WDT[®] provides the most comprehensive off-gas based water detection solution by using NextGen[®] complete spectrum off-gas analysis including both H₂ & H₂O vapor to detect and alert operators when abnormally high water levels are present within the furnace.

Installation and commissioning of the system is expected to be completed in November 2018.

About Tenova

Tenova, a Techint Group company, is a worldwide partner for innovative, reliable and sustainable solutions in metals and mining. Leveraging a workforce of over three thousand forward-thinking professionals located in 22 countries across 5 continents, Tenova designs technologies and develops services that help companies reduce costs, save energy, limit environmental impact and improve working conditions.

For more information, visit www.tenova.com