

## PRESS RELEASE

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Contacts:

Mary Kneebone, +1 905 567 3030, [mary.kneebone@tenova.com](mailto:mary.kneebone@tenova.com)  
Sara Secomandi, +39 0331 444 110, [sara.secomandi@tenova.com](mailto:sara.secomandi@tenova.com)  
Roberto Carnazza, +39 3497 746 017, [roberto.carnazza@edelman.com](mailto:roberto.carnazza@edelman.com)

### **Tenova's NextGen® + i EAF® and Water Detection technologies significantly improve EAF operations at Nucor Steel Seattle, Inc.**

**Results of demonstration project at Nucor Steel Seattle, Inc., exceed expected benefits in the areas of reduced operating cost, energy consumption and safety**

**Mississauga, 18 September 2017** – Nucor Steel Seattle, Inc., has officially signed off on Tenova's Water Detection System® (WDS). The System was approved based on controlled testing and successful detection of actual EAF water leaks.

These results confirmed that the WDS met the plant's requirements to detect and alert plant operators when higher than normal water conditions were present in the EAF. Furthermore, the WDS has also demonstrated minimal false alarms even in Seattle's highly variable seasonal weather conditions.

In addition, the NextGen® + i EAF® project previously commissioned in April 2016, surpassed Nucor Steel Seattle, Inc.'s expectation for quantifiable and sustainable improvements in monthly process consumptions and operating costs: average monthly furnace consumptions were significantly decreased in the following areas: 5% electrical, 1.5% oxygen, 11.5% natural gas, 7.5% injected carbon and 32% charge carbon.

Complete system performance has more than doubled from the original estimated savings target determined at the start of the project with total electrical and chemical energy costs per ton of steel being reduced by over 6%.

#### **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.*

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