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Operating experiences with Spray Cooled EAF conversion at SDI Columbia City

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In 2016, SDI's Structural and Rail Division (SRD) in Columbia City, Indiana initiated a strategic upgrade to its electric arc furnace (EAF) operation. The facility transitioned from pressurized tubular water-cooled panels to a modern spray-cooled upper shell system. This enhancement aimed to address safety concerns, improve thermal performance, and lower maintenance demands. Over time, complementary technologies such as a spray-cooled roof, elbow, copper burner box, and the SYSTEMS Spray Safe Humidity Sensor were also introduced. This paper details the technical, economic, and operational benefits realized from these innovations.

Speaker Country

United States

Speaker Company/University

Systems Spray-Cooled

Primary authors: VALENTAS, Louis (Systems Spray-Cooled); FERGUSON, Scott (Systems Spray-Cooled); Mr FERENCZY, Stephan (Steel Infinity)

Co-authors: Mr GROSS, Clay (Steel Dynamics); Mr TEW, Kyle (Steel Dynamics)

Presenters: VALENTAS, Louis (Systems Spray-Cooled); FERGUSON, Scott (Systems Spray-Cooled)

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