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David B. Durocher (SBM '77 M '97 SM '99) received a BSEE at Oregon State University. He served as Global Mining, Metals, and Minerals Industry Manager during his 41 year career with Westinghouse and Eaton serving in a variety of product engineering, sales, and global marketing roles, authoring numerous technical papers that have been presented at conferences around the world and published in the IEEE Transactions on Industry Applications, IEEE Industry

Applications Magazine, World Cement, Engineering & Mining Journal, Plant Engineering, and EC&M Magazine. He serves on IEEE Standards Working Groups IEEE1584 and IEEE1458 and is an active member of the IEEE IAS Metals Industry Committee, Cement Industry Committee, Pulp & Paper Industry Committee and Association of Iron & Steel Technology. He served as President of IEEE IAS 2015-2016 and serves as Division II Director - IEEE Board of Directors 2019-2020.

Title: Medium-Voltage Adjustable-Speed Drives Upgrade: Delivering Operational Benefits for a Steel Mill Runout Table Cooling System

Power Point Presentation, 45 min and Q&A Session

Abstract:

A case study involving the installation of five new adjustable-speed drives (ASDs) to regulate flow for a high-volume water spray system installed on a steel mill runout table (ROT) is presented in this article. This energy project retrofitted an existing system at an integrated steel mill in the central United States. Best practices and lessons learned will be reviewed, and outline processes justifying the new technology upgrades, mill alignment with the serving electric utility to leverage the available energy credits, equipment selection and installation, and metrics demonstrating that the project delivered the desired payback will be examined.

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