

AIC has been awarded a new project from SDI for its plant in Roanoke, VA.

The project involves providing a cutting-edge automation solution by supplying a new PLC (Programmable Logic Controller) and HMI (Human-Machine Interface) software to replace the existing rolling mill control system at the SDI Roanoke Bar Division rolling mill in Roanoke, Virginia, USA. This replacement aims to modernize the mill's operational infrastructure, ensuring improved efficiency, reliability, and adaptability to future advancements in technology.

The scope of supply is comprehensive, addressing all aspects required for a successful implementation. This includes:

- 1. Design:**
The design phase involves developing a tailored system architecture that aligns with the specific operational needs of the rolling mill. This includes determining hardware and software compatibility, defining control logic requirements, and ensuring seamless integration with existing mill components.
- 2. Programming:**
Custom programming will be carried out to develop the PLC software, responsible for managing core automation functions, and the HMI software, which provides an intuitive interface for operators to control and monitor mill operations.
- 3. Internal Testing:**
Before deployment, the new software will undergo thorough internal testing to ensure functionality, performance, and reliability.
- 4. Supply:**
The project will deliver all validated software packages along with comprehensive documentation and configuration files. These materials will be designed to facilitate seamless installation, operation, and future maintenance.
- 5. Supervision of Installation and Commissioning:**
Expert technical personnel will supervise the on-site installation of the new software, ensuring proper integration with the existing equipment. The commissioning process will include fine-tuning the system, validating performance under real-world conditions, and providing operator training to ensure smooth transition and operation.

This project marks the conclusion of a multi-phase upgrade initiative that has been progressively implemented at the site. By completing this final phase, the rolling mill will benefit from a fully modernized control system that enhances production efficiency, reduces downtime, and positions the facility for long-term operational success.



About Companies:

AIC Group is a technological partner with extensive experience and deep know-how and stands itself as a global power control supplier and system integrator designing, manufacturing, and implementing automation systems, process control, and mechatronic solutions for both greenfield and revamping projects. Focusing on the steel and metals industries for long and flat products, the Group provides cutting-edge technical solutions by handling complex project schedules and thus establishing satisfactory and remarkable partnerships through its 6 international offices.

More than 45 years of modernization for endless reliability processes.

Steel Dynamics Inc. is one of the largest and most diversified domestic steel producers and metals recyclers in the United States, with an estimated steelmaking and coating capacity of approximately 13 million tons, and facilities located throughout the United States and in Mexico. SDI operate using a circular manufacturing model, producing lower-carbon-emission, quality steel using electric arc furnace (EAF) technology with recycled ferrous scrap as the primary input. Our circular economy is powered by our three primary operating platforms: steel, metals recycling, and steel fabrication.

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