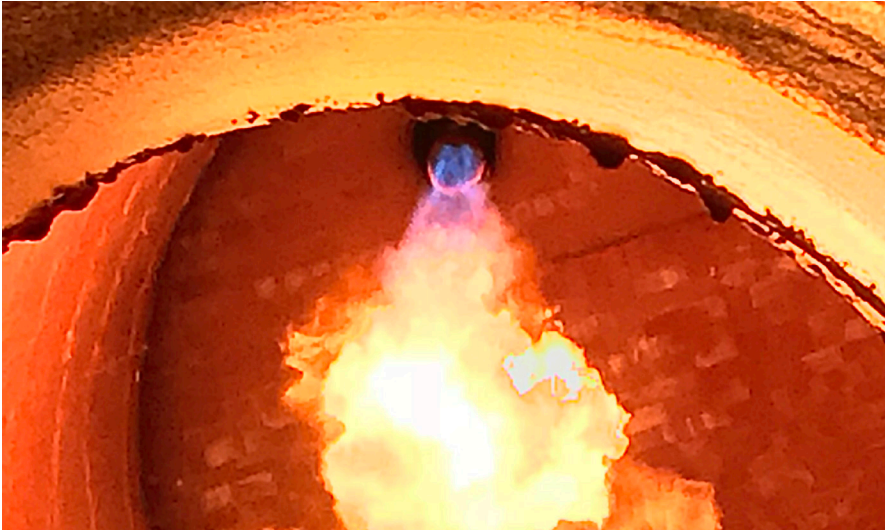


SLAG CLEANING CONVERTER BURNER MANAGEMENT SYSTEM



PROJECT SUMMARY

Name	Slag Cleaning Converter Burner Management System
Location	Copper Cliff Smelter, Copper Cliff, Ontario
Client	Vale
Type	EPC

PROJECT DESCRIPTION

Nordmin Group of Companies completed the EPC design, construction, and commissioning of a new Burner Management System (BMS) for a refurbished Slag Cleaning Converter at Vale in Copper Cliff, Ontario.

Nordmin Engineering provided the detailed design of the BMS including the design and supply of a new Allen Bradley Guardlogix PLC BMS, piping systems for combustion air and natural gas, electrical interconnection systems, DCS operator control graphics, PLC programming, and BMS operating manual. Nordmin completed the procurement processes, commissioning and start-up.

Nordmin utilized the construction services of a local ESA and TSSA registered Contractor who completed the electrical, mechanical, and piping installations required for the new BMS.

Services were also provided for the development and submittal of the required Field Approval Application to the TSSA Fuels Safety Branch. The EPC project was completed on time, on quality, and on budget with the Converter BMS receiving approval to operate from the TSSA Fuels Safety Branch.

