Bloom provided a combustion system tune-up and controls upgrade on a reheat furnace that provided a safer operation, better fuel rates, less scale loss and greater productivity through the furnace.

A North American steel producer has steel reheat furnace that processes 20 tons per hour of steel bars (rounds). The furnace OEM installed five pairs of Bloom 1150 regenerative burners, and had provided the combustion controls. Combustion control, however, were not executed very well. The customer was particularly concerned with scale loss and fuel rate, and had considered a complete rebuild of the furnace. Bloom performed a study on the existing equipment, diagnosed the problem, and developed a solution to provide a combustion system tune-up and retrofit of the controls system, which included some ancillary equipment in order to bring the combustion system into proper performance. Bloom made guarantees on fuel rate, scale loss and a production increase which they easily met during performance testing.