

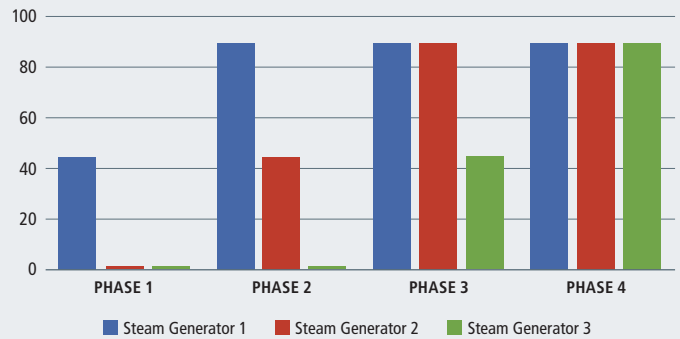
Master Lead/Lag System

Multiple and modular boiler installations have become increasingly popular as a way to increase fuel efficiency, expand boiler turndown and reduce greenhouse gases and other emissions. Automating their operation is essential to achieving the full benefits of these boiler systems.

The Clayton Master Lead/Lag System provides exceptional operating flexibility to precisely meet your steam load profile—both efficiently and effectively—while providing an unparalleled level of modulating control over your steam system. Its user-friendly interface allows the operator to select boiler sequence and firing rate using one of three methods: **Standard, Parallel or Tandem Operation**.

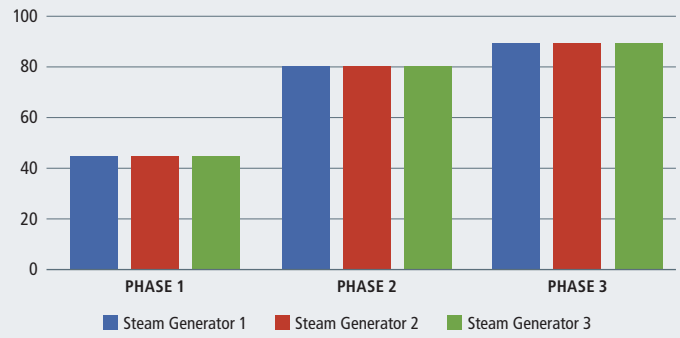
With the Clayton Master Lead/Lag system, you can easily adjust various parameters, allowing optimal control of multiple boilers to effectively meet your specific steam load profile.

STANDARD OPERATION



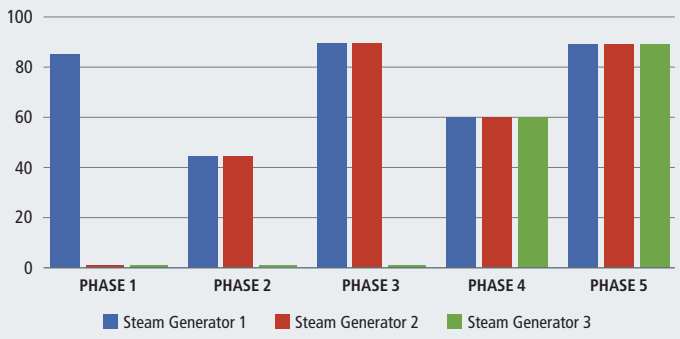
Each steam generator fires on or off sequentially to meet steam demand.

PARALLEL OPERATION



All steam generators run simultaneously to meet steam requirements.

TANDEM OPERATION



In this operation, the lead steam generator modulates up to a desired level. This example shows a 90% firing rate. If steam demand increases beyond this threshold, the next steam generator will fire up to assist with steam output. The two steam generators synchronize and modulate together, increasing in unison as steam demand rises. Should steam production again be required beyond the predetermined level, the third steam generator will fire to further support the increased demand for steam production. All three steam generators will synchronize, modulating in unison.



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Clayton Industries will guide you in the implementation of your Master Lead/Lag System's advanced operational control to help you determine the best operating approach for your plant's requirements, enhancing the operating capabilities of your steam system and increasing its efficiency.