



Boiler Operations System Supervisor (BOSS)

To enhance current safety levels

The SAACKE BOSS (Boiler Operations System Supervisor) has been designed for use on sites that have no remote alarms present and can also be fitted into installations where older traditional set-ups are still operating.

The BOSS panel is a stand-alone control panel that is fitted inside the Boiler-house and contains contacts for three boilers that are hardwired to the respective boiler control panel's lockout relay.

In the event of a critical lockout (Low water, Extra Low water or Excess pressure/ Temperature) the contacts in the BOSS panel will activate a logic controller and start a countdown timer. This timer will be set to fall in-line with the standard alarm response times for boiler alarms in the UK (7-12 minutes).

If the operative has not been able to attend to the alarm condition within that time, the BOSS panel will double lock out the boiler and show a flashing beacon and fault lamp. The boiler will now be double-locked out and the Trained Boiler Operator will need to reset the burner/boiler and the BOSS panel before it can be placed back into operation.

Advantages at a glance

- ✓ Conformity to recommended alarm response times
- ✓ Blowdown interlocks can be run through the same panel
- ✓ System can be used in tandem with pre-existing remote alarm systems to improve safety
- ✓ Can be installed with any brand of burner/control equipment
- ✓ No need to run lengthy flying leads to remote location from the Boiler-house
- ✓ Assists Trained Boiler Operators in maintaining a safe plant when they are not in attendance
- ✓ Simple operation, basic overview and demonstration of the new panel is all that is required

Task

Remote alarm system not installed

Solution

Fit a BOSS panel to the current operating system

Blowdown system interlock

Another useful function of the BOSS panel is the provision of a blowdown system interlock included as standard. Automatic bottom blowdown valve control in the UK and Ireland is becoming more common as controls and systems are upgraded or retrofitted.

Guidance Note BG03 lists a requirement to have the bottom blowdown valves interlocked so that simultaneous blowdown cannot occur unless the system has been designed to do so. In addition to the safety alarm response time, the BOSS panel can take the timed interlock function of the bottom blowdown into account through one simple auxiliary panel.

As with all safety related modifications and improvements, SAACKE Combustion Services Ltd recommends that a full Boiler-house Technical Risk Assessment is completed to assess the needs of the plant.

The BOSS panel is not intended to replace external Emergency Stop buttons or locations, but to enhance current safety levels and benefit safe operation.

General panel arrangement

