KS kiln overfires

Condition:
Witness cones indicate that the kiln is firing more than one cone hotter than programmed or sitter cone.

8.6c
KS kilns
Overfire provision

Start here.

Did the timer shut off the kiln?

Yes

Was a Junior cone used in the kiln sitter?

Always use Junior cones in the kiln sitter.

No

Did the timer shut off the kiln?

No

Is the kiln staying on until it is unplugged?

Yes

Do you have a 3 phase kiln with no gray contactor box?

No

Did the Junior cone fuse to the ceramic tube assembly in the kiln?

No

Always use Junior cones in the kiln sitter.

Yes

Is the kiln staying on until it is unplugged?

No

There may be something in the tube assembly like a piece of clay, metal or? Replace tube assembly.

Yes

Do you have a 3 phase kiln with no gray contactor box? You need a contactor to turn off the 3 phase kilns.

Always use Junior cones in the kiln sitter.

Yes

Does the sensing rod move freely in the tube assembly?

No

It appears that the kiln is working fine so far. Make sure you are using the correct cones. Continue firing using a lower temperature cone in the kiln sitter.

Yes

Did the Junior cone fuse to the cone rests or puddle?

No

Was the falling weight stopped by something like a chair outside the kiln? Was the falling weight set upright to begin the firing? Try to determine what caused the falling weight to stick. Replace entire kiln sitter faceplate if necessary.

Yes

Did the falling weight complete its fall?

No

Did the button on the sitter get stuck in the on position?

Yes

The button may have melted and stuck or some other difficulty. The kiln sitter faceplate models LT-3K and model K can be replaced. They can also be rebuilt by Dawson Manufacturing. Older kilns with the sitter built into the box need to be repaired. It may help to remove any rust or debris in the mechanism that frees the button.