SOP 013 Issue 2	CHP Start up Emergency Stop	
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The procedure below sets out the instructions for staff undertaking a CHP emergency stop.

Procedure

In some events, the Uniconfort biomass boiler plant will need to stop in an emergency.

Emergency stops can be defined simply into two categories:

a. Initiated by plant operator; cases where the plant is forced to stop by the pressing of an E-stop by a plant operator.
b. Initiated by the plant safety interlocks; cases where the plant stops itself through a safety interlock.

a. Initiated by plant operator:

In such cases:

- The plant can be stopped in an emergency from the Plant Room by pressing any of the E-STOP buttons.
- This will trigger the plant's self-controlled safeties which include: -
  - The bypass shutter valve will open.
  - The Duplo fire shutter will close.
  - The Duplo screws will momentarily run backwards to clear chip in the screw conveyor.

b. Initiated by plant safety interlocks:

In such cases:

- The plant has two forms of alarms.
  - The first are *generic alarms* which will not trigger the plant to stop.
  - The second are *blocks* which will trigger a safety interlock that will stop the plant.
- The plant may also stop if it reaches Phase 7, and this occurs when chamber temperatures, water temperatures or oil temperatures exceed nominated thresholds.
- In the event that the plant registers a *block* or reaches Phase 7, the plant will stop and this will trigger the plant's self-controlled safeties which include:
  - The bypass shutter valve will open.
  - The Duplo fire shutter will close.
  - The Duplo screws will momentarily run backwards to clear chip in the screw conveyor.
- In these occasions, the plant operator will need to take action to enable the plant to be STARTED.
- The operator will keep periods of shut down as short as possible.