

Templeborough Biomass Power Plant – Steam Blowing

Background

As Templeborough Biomass Power Plant enters into the final stages of commissioning, we wish to advise local residents and businesses of an operation known as the 'Steam Blowing'. Essentially this is required to ensure that all the steam pipework is clean prior to steam being sent to the electricity generating turbine.

The Environment Agency and Local Authorities have been notified and are aware of this planned event.

We hope this extra information will keep you up to date with everything we're doing and help explain a little more about the process of steam blowing. We carry out steam blows to ensure all the debris, dust and any other small contaminants from the construction of the boiler and all the pipe work have been cleaned out. This makes sure that the turbine will work safely and efficiently when we start operating the plant.

The steam blowing process is safe and is part of our normal commissioning process for the power plant, we have included some further technical and key information on the next page of this document.



A Steam Blow test in progress



The Principle of Steam Blowing

- Steam Blowing is a “mechanical” process.
- The principle behind blowing steam to clean the lines is that the thermal cycling (heating/cooling) and high velocity steam flowing through the line will "shock" the pipe to break the mill scale away from the pipe wall.
- What actually happens is we start up the boiler, building up steam pressure and temperature in the pipe system. Once we've got to the right level, the pressure will be released via a temporary steam blow pipe and you'll see a plume of steam in the sky.

Key Information

- The Steam Blows are currently scheduled to commence from **20th March 2018**.
- Each individual steam blow will take **up to five minutes**
- We are expecting it to take **10 to 20 steam blows** to clean the system.
- Depending on the fuel we have available we are expecting to carry out **2 to 3 steam blows per day**.
- The sound level at the nozzle where the steam is released is approximately **100 dB**
- We are expecting the Steam Blow testing to last between **3 to 10 days**.
- There is **no environmental** impact from the steam plume.
- Steam blowing will take place within **normal site opening hours (07:00 to 19:00hrs)**

We should also like to take this opportunity to thank those local residents and businesses who have supported this project during our time in Rotherham and apologise in advance if the Steam Blow operation causes any inconvenience during this period.

Further information is available at www.templeboroughbiomass.com

Should you have any specific concerns, please contact

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