

Annex B Appendix 2 To Loughborough University Facilities Management Health and Safety Policy

Boiler House Technical Risk Assessment

What has changed? – Since October 2011 the document (PM5) was replaced with (HSE INDG436 & BG01) this highlighted the need for a technical risk assessment for boiler houses.

What is the aim of (BG01)? To ensure the safe use of boiler installations reducing the risk of accidents for medium temperature systems.

Does this replace the written scheme? No the requirement for a risk assessment is in addition to it.

What Boilers are included? – Industrial steam and hot water boiler plant operating at a working pressure of between 0.5 bar and 32 Bar and a working temperature between 110c to 400c.

Which boilers are not included?

1. Water tube boilers
2. Process boilers with a capacity exceeding:
 - a. 30 tons steam per hour
 - b. 25mw
 - c. 32 bar gauge working pressure.
3. Domestic, commercial boilers smaller than 70kw
4. Electric immersion, steam coil heated and electrode boilers
5. Manually operated boilers i.e.: those who have constant human intervention.

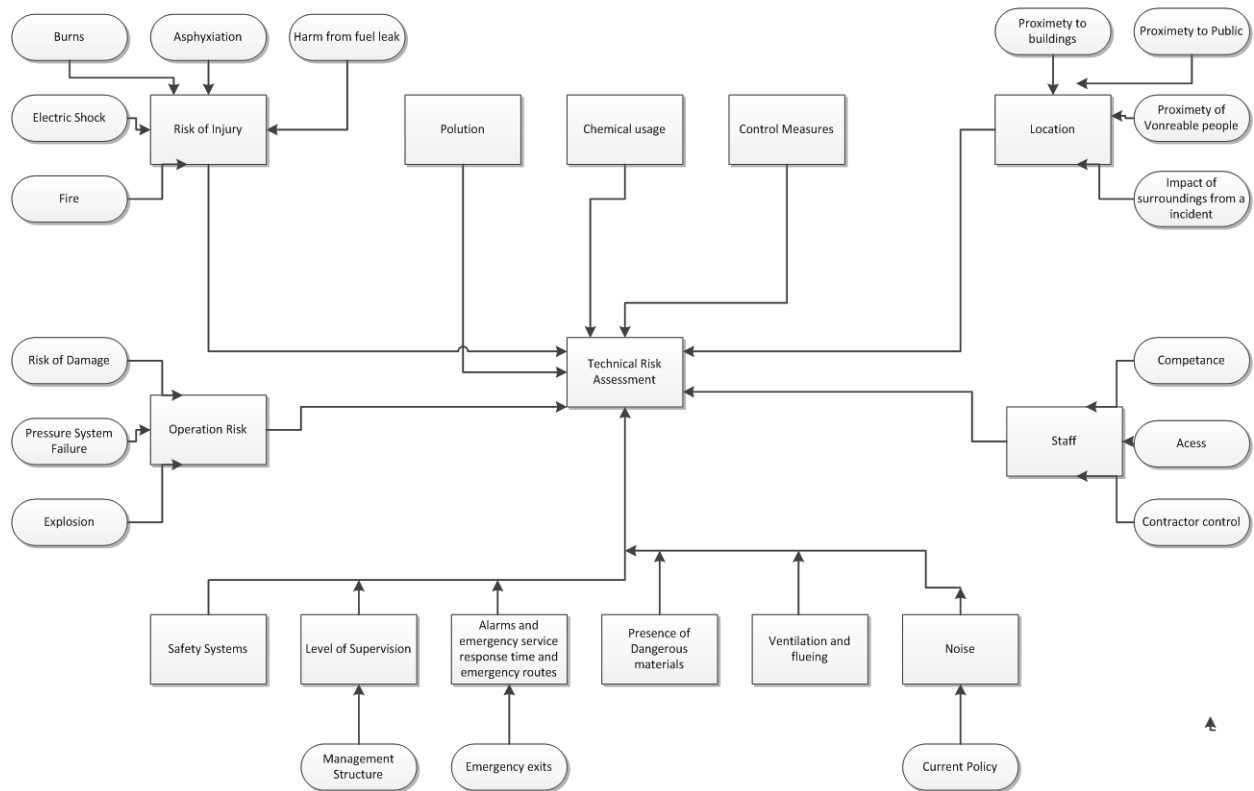
Who is responsible for carry out the risk assessment – The employer but he is expected to employ a suitably competent person to carry out the risk assessment.

Where are our Boilers that relate to this guidance?

1. Chemical Engineering
2. Civil Engineering
3. Energy Centre

What should be included in the risk assessment? – See flow chart below

Risk Assessment Matrix



Does this replace current Legislation? – No, as BG01 is a guidance document the following legislation still applies –?

- a. The Management of Health and Safety at work 1999 (MHSWR)
- b. The Pressure Equipment Regulations 1999 (PER)
- c. The Pressure Systems Safety Regulations 2000 (PSSR)
- d. The Provision and Use of Work Equipment Regulations 1998 (PUWER)
- e. The Dangerous Substances and Explosive Atmosphere Regulations 2002 (DSEAR)

With the exception of the PER, the others have the support of an approved code of Practice (ACOP).

The following are available for Guidance –

- a. Guidance on the safe operation of boilers (BG01)
<http://www.cea.org.uk/files/8013/9351/1918/BG01.pdf>
- b. HSE INDG 436 Safe Management of Industrial steam and Hot water boilers -
<http://www.hse.gov.uk/pubns/indg436.htm>

References

Rev 1 June 2015

Guidance on the safe operation of boilers (BG01)

HSE INDG 436 Safe Management of Industrial steam and Hot water boilers

Revisions page

	Revisions made	By	Date
1	New appendix produced following the release of BG 01 in regard to MTHW boilers and the need for a Technical Risk assessment for all boiler houses where these systems are in use.	Paul Walker	June 2015