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Newhurst ERF

Fire Regulation and Certification

Question

Brief the Liaison Committee on fire regulations and certification. Fire is the plant's business with extreme temperatures operating, but there are no doubt peripheral risks.

What certification and inspections are necessary and at what stage in the testing and operation?

Newhurst – Fire Regulations and Certification

- **Key Documents**

- Fire Prevention Plan (part of Environmental Permit)
- Fire Strategy Report
 - Used to support application for Building Regulations approval.
 - Forms part of the O&M documentation (considered a live document which would require to be reviewed if and when changes are made to the building).
 - Purpose is to identify solutions for risks posed by fire hazards.
 - It describes the design principles and mitigation measures adequate in the unlikely event of a fire to:
 - Ensure an adequate level of life safety for all occupants;
 - Ensure that the property is protected as far as reasonably practical;
 - Minimise the impact on business operation due to a potential fire;
 - Reduce the potential for pollution impact on the environment.

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(A) Designed to relevant standards/ Guidance

- The Building Regulations
- BS 9999: Code of practice for fire safety in the design, management and use of buildings.
- NFPA 850: Recommended Practice for Fire Protection for Electric Generating Plants and High Voltage Direct Current Converter Stations.
- Passive Fire Protection - BS EN 1182
- Active Fire Protection – BS 5839-1, BS EN 3, BS EN 54
- Insurer (Chubb) Guidance Documents: ‘Energy from Waste – Fire Systems’ and ‘Waste Processing Plants – Fire Systems’
- Good Engineering Practice

(B) Installation/ Testing

- Fire Detection and Protection
 - Installed, Tested and Certified by approved installers

(C) During Construction

- Activities undertaken – Joint Code of Practice 9th Edition
 - Applies to Procurement, Construction and Design processes and compliance is a requirement of the Construction Insurance

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(D) Prior to Acceptance of Waste

- Building Regulations approval
- Readiness to Accept Waste Certificate
 - Include Fire detection and protection completed and signed off
- Fire Prevention Plan (FPP) - Updated and approved by Environment Agency
- Written confirmation from Insurer

(E) During Operation

- Regular testing of equipment
- Maintenance regime – Fire detection/ Fire Protection

Thank You

