

[REDACTED]

From: Tom Clark [REDACTED]
Sent: 04 January 2024 13:04
To: planning
Cc: Luke Vere; Jak Parker
Subject: FAO - AMY DAVIES - 23/01837/FULM - Land To The West Of Main Street Kelham
Attachments: Grid Scale Battery Energy Storage System planning Guidance for FRS.pdf; ufm13_Planning_Application_Consultation.rtf

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Dear Amy Davies,

Please find the following in relation to the above consultation received.

To assist all parties involved please find attached the guidance produced by the National Fire Chiefs Council (NFCC) which the Fire Authority will use as a basis to comment and interact with such developments. Within the document are key areas for consideration that the Fire Authority asks that should planning approval be granted, the planning authority is sufficiently assured that the detail to satisfy and underpin those relevant areas is known, ratified (evidenced) and accepted by all parties.

That said, comments that can be given to date are:

- 1) Nottinghamshire Fire & Rescue Service (NFRS) ask that the attached document be made available to the developers. The content of which gives a good indication as to the areas of concern / consideration of the Fire Authority which require appropriate attention.
- 2) Linked to the above NFRS will seek assurances including detailed responses to the matters below, which is not an exhaustive list:
 - a. Access to the site –minimum of two genuinely independent access routes
 - b. Can Fire Service vehicles easily access all of the site, SWEPT path analysis undertaken
 - c. Construction of the containers, what safety systems will they have, how will they be shut down or monitored, internal suppression system, method of dealing with a fire (extinguish or controlled burn**), deflagration devices, specialist advice, . .
 - d. Container sizes, spacings between each other, heat output (energy density) if involved in fire to justify spacings
 - e. Provision for fire-fighting water, how much, where, access
 - f. What will happen to the water runoff, levels of contamination, need for a Penstock??
 - g. Contamination levels of gases and vapour, how will it be controlled, vented, need to access the containers, . .
- 3) As part of the finer detail supplied it will be expected that this will be evidenced by recognised testing methods, relevant expert endorsement and / or CFD modelling.
- 4) Although not specific to the Fire Authority consideration for Flooding, Environmental Impact, and Highways affecting emergency vehicular access to enter the site.
- 5) **NFRS is aware that the 'industry' is potentially moving from extinguishment for fire incidents involving BESS containers, to 'burn out' and protect. This is based on advice from leading L-Ion industry experts.

NFRS seeks to clarify that the relevant enforcing authority for the protection of the environment (for example Environment Agency / Environmental Health / UK Health Security Agency) must be consulted. The relevance being that if this approach is not approved by that enforcing body, this may influence any subsequent Risk Management and Emergency Response Plan detailing the requisite safety provisions expected for the site.

Whilst it (NFRS) does recognise burn out as a possible means to resolve an emergency of this type on site, it is not the role of the Fire Authority to authorise it.

To summarise, to date more detail is required to comment effectively.

Regards

Tom

Tom Clark

Station Manager

Fire Protection North - Mansfield Fire Station.

Nottinghamshire Fire & Rescue Service.

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