

## Project Advice Notice – SYD02 Data Centre UPS Room Fire Safety

### NA241460 – SYD02 Data Centre

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| NA241460_SYD02_Advice Notice_UPS Room Fire Safety_260318.docx | 20 March 2026 |
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| <b>To:</b> | Sam Keating        | DCI Data Centres |
| <b>CC:</b> | Joel Garrigues     | LCI Consultants  |
|            | Arbaz Khan         | LCI Consultants  |
|            | Matthew Buttarelli | ACOR Consultants |
|            | Scott Tamasauskas  | ACOR Consultants |

Dear Sam,

The following Advice Notice addresses feedback on the Mod 2 application for SYD02 from DPHI in regard to the Dangerous Goods Report (S02-DG-00-REP-ACR-0001-C\_251027).

#### DPHI Feedback

This Advice Notice addresses Point 7, Hazards and risk, of DPHI's request for additional information dated 27/2/2026.

*"7. The Department understands the Dangerous Goods Assessment (Appendix Q) separately indicates that the UPS battery fire suppression system will be designed and installed as per FM Global Data Sheet 5-33 and NFPA 855, whereas other sections of this document suggest the fire protection requirements and sprinkler systems will be primarily based on the relevant Australian Standards.*

*While the Department does not require specific details on the fire safety design at the pre-approval stage, verification is required to confirm the development (as modified) is capable of achieving the relevant requirements outlined under Data Sheet 5-33 and NFPA 855, if found to be required via the Fire Safety Study process.*

*In this regard, please provide further information on whether the existing and proposed fire suppression and protection measures that relate to the modification can meet the Data Sheet 5-33 and NFPA 5-32 requirements, if required. Particular focus should be placed on the requirements around the fire hydrants and fire water supply/delivery rates. "*

#### Dangerous Goods Report Section

Page 21, Section 6.6 Fire Protection, in Additional Note 3 of the The Dangerous Goods Report (S02-DG-00-REP-ACR-0001-C\_251027) states that *"The UPS battery room fire suppression system is to be designed and installed as per FM Global Data Sheet 5-33 and NFPA 855."*

## Advice

FM Global Data Sheet 5-33 provides guidance on the design, installation, and maintenance of lithium-ion battery energy storage systems and NFPA 855 is the US National Fire Protection Agency's standard for the installation of stationary energy storage systems.

From a dangerous goods perspective, FM Global Data Sheet 5-33 is used for the storage and handling requirements of lithium-ion battery systems as the applicable Australian Standard for Class 9 dangerous goods does not adequately address the risks of lithium-ion batteries. Therefore, this data sheet's requirements for fire safety are required to be followed for the design of fire safety systems within the lithium-ion battery rooms. As part of these requirements FM Global Data sheet 5-33 also references NFPA 855, and therefore the requirements of NFPA 855 also apply.

From an email with the Fire Services Engineer from LCI dated 6/3/2026 it was confirmed that the Fire Service design for SYD02 is designed to FM Global, NFPA and Australian Standard (AS) requirements. Where there are competing requirements, the most stringent is applied for design purposes. In particular, the Fire Services requirements contained in FM data sheet 5-33 and NFPA 855 will be adhered to, this includes the lithium-ion battery rooms.

Design of fire hydrants and fire water supply/delivery rates will therefore meet FM Global Data Sheet 5-33 and NFPA 855 requirements unless as the relevant Australian Standard requires a larger delivery. In these cases it would also exceed, and therefore comply with, the minimum requirements of FM Global Data Sheet 5-33 and NFPA 855. This conservative approach is considered appropriate.

Yours faithfully,

**ACOR Consultants Pty Ltd**



Aleksandar Bajagic  
Engineer (Energy)