

From: Fire Safety <FireSafety@fire.nsw.gov.au>
Sent: Friday, 18 January 2019 10:20 AM
To: Susan Fox
Subject: RE: Project Reference: FRN18/2562: Job Number: BFS18/3564 (8000005676) - Notification of Modification Application for the Kembla Grange Resource Recovery Facility – (SSD 5300 MOD 2)

Dear Susan,

In regards to your email correspondence dated the 3rd of December 2018, Fire & Rescue NSW confirms receipt of the Notification of Modification Application for the Kembla Grange Resource Recovery Facility – (SSD 5300 MOD 2) – 50 Wylie Road, Kembla Grange.

It has been the experience of FRNSW that waste recycling facilities pose unique challenges to firefighters when responding to and managing an incident. Factors such as high and potentially hazardous fuel loads, facility layout, and design of fire safety systems have a significant impact on the ability to conduct firefighting operations safely and effectively. Consultation with organisations such as FRNSW throughout the development process enables the design and implementation of more effective fire safety solutions that help to mitigate the impact of incidents when they occur.

Combustible waste presents ‘special problems of firefighting’ that warrant classification as ‘special hazards’, and consideration of provision for special hazards under Clause E1.10 and E2.3 of the NCC. Fires in waste facilities present specific issues for firefighting, including:

- a) the physical nature of combustible waste and waste by-products, including fire properties and ignition potential of both unsorted and sorted materials
- b) unsuitable storage method, stockpile size, separation distances and accessibility
- c) mechanised waste handling, sorting and processing systems, including vehicles
- d) poor emergency vehicle and/or firefighter access for firefighting intervention
- e) facilities having an inadequate or no fire hydrant system, including water capacity
- f) facilities having an inadequate automatic fire suppression system installed
- g) buildings having an inadequate smoke hazard management system installed, and
- h) facilities having inadequate provision to contain fire water run-off.

Following a review of the Statement of Environmental Effects report FRNSW notes the following:

- Planned construction includes an Indoor processing plant (to be located within the processing shed), and
- The installation of firewater storage tanks and a pump room on the premises.

FRNSW provides the following recommendations:

- Consent authorities should issue a condition on the development consent requiring Clause E1.10 and E2.3 of the NCC be complied with to the satisfaction of FRNSW, achieved

through either providing an acceptable solution or through direct consultation with FRNSW.

- The waste facility is to provide safe, efficient and effective access for emergency vehicles as detailed in FRNSW guideline Access for emergency vehicles. Aerial appliance access is to be provided if the facility is located within a fire district covered by an aerial appliance.
- The waste facility is to have a fire hydrant system installed appropriate to the risks and hazards for the facility, including a ring main design for redundancy. FRNSW recommends a fire hydrant system designed and installed to Australian Standard AS 2419.1-2017 and have an enhanced standard of performance appropriate to special hazards.
- The waste facility is to have an automatic fire sprinkler system installed if the building has a floor area greater than 1000 m² or contains 200 m³ or more of combustible waste material. FRNSW recommends the fire sprinkler system be installed to Australian Standard AS 2118.1-2017.
- The waste facility is to have a fire detection and alarm system installed appropriate to the risks and hazards identified for each area of the facility. FRNSW recommends a fire detection and alarm system installed to Australian Standard AS 1670.1-2015 Fire detection, warning, control and intercom systems – system design, installation and commissioning.
- Buildings containing combustible waste material are to have an automatic smoke hazard management system appropriate to the potential fire load and smoke production rate installed within the building.
- The waste facility is to have effective and automatic means of containing fire water run-off, with primary containment having a net capacity not less than the total hydraulic discharge of the worst-case fire scenario. The total hydraulic discharge is the discharge from both the fire hydrant system and automatic fire sprinkler system for a duration of four hours. Failure to contain fire water run-off can result in pollution of the environment and require a protracted hazardous materials response.
- The owner is encouraged to engage a fire safety engineer or other suitably qualified consultant to develop a performance design specific to the facility and its operations. The performance-based design should consider all possible fire scenarios.
- The occupier/operator is to develop an emergency plan for the waste facility to AS 3745-2010 Planning for emergencies in facilities. An external consultant should be engaged to provide specialist advice and services in relation fire safety planning and developing an emergency plan.

While there is currently no requirement for a fire safety study, FRNSW may request one be undertaken at a later stage should information be provided such it is deemed that the development poses challenges to the response to and management of an incident.

Should you have any further queries regarding this matter, please contact the Fire Safety Branch on 02 9742 7434.

Regards,



Administration Officer
Fire Safety Administration Unit
Community Safety Directorate | Fire and Rescue NSW

T: (02) 9742 7434

1 Amarina Ave, Greenacre, NSW 2190 | Locked Bag 12, Greenacre, NSW 2190

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From: Susan Fox <Susan.Fox@planning.nsw.gov.au>

Sent: Friday, 18 January 2019 9:37 AM

To: Fire Safety <FireSafety@fire.nsw.gov.au>

Subject: Project Reference: FRN18/2562: Job Number: BFS18/3564 (8000005676) - Notification of Modification Application for the Kembla Grange Resource Recovery Facility – (SSD 5300 MOD 2)

Good morning,

I am just following up on the above modification application. Will FRNSW be putting in a submission in relation to SSD 5300 (MOD 2) ?

Regards

Susan Fox

Susan Fox

Senior Planning Officer | Industry Assessments

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From: Fire Safety <FireSafety@fire.nsw.gov.au>

Sent: Wednesday, 5 December 2018 1:49 PM

To: Luisa Maguire <Luisa.Maguire@planning.nsw.gov.au>

Subject: RE: HPRM: Notification of Modification Application for the Kembla Grange Resource Recovery Facility – (SSD 5300 MOD 2)

Dear Luisa

Fire & Rescue NSW acknowledge receipt of your application.

For any future correspondence regarding this matter, we request that you quote your job / reference number:

Project Reference: FRN18/2562
Job Number: BFS18/3564 (8000005676)

Should you have any further queries regarding this matter, please contact the Fire Safety Branch on 02 9742 7434.

Regards



Administration Officer

**Fire Safety Administration Unit
Community Safety Directorate | Fire and Rescue NSW**

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From: Luisa Maguire <Luisa.Maguire@planning.nsw.gov.au>

Sent: Tuesday, 4 December 2018 3:50 PM

To: Fire Safety <FireSafety@fire.nsw.gov.au>

Cc: Susan Fox <Susan.Fox@planning.nsw.gov.au>

Subject: HPRM: Notification of Modification Application for the Kembla Grange Resource Recovery Facility – (SSD 5300 MOD 2)

Good Afternoon,

Please find attached the Notification of Modification Application for the Kembla Grange Resource Recovery Facility – (SSD 5300 MOD 2) – 50 Wylie Road, Kembla Grange.

The modification application and accompanying documents may be viewed on the department's website at: http://majorprojects.planning.nsw.gov.au/index.pl?action=view_job&job_id=9585.

The Department of Planning and Environment invites you to comment on the proposal by close of business **Tuesday 18 December 2018**.

For further enquiries, please contact Susan Fox who can be contacted on 02 9274 6466 or via email at susan.fox@planning.nsw.gov.au.

Regards

Luisa Maguire

Luisa Maguire

DA Coordinator | Key Sites and Industry Assessments
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