



# Odour Assessment for Proposed GDK Development 213-215 Commercial Road, Portsmouth, PO1 4BJ

Prepared by McVeigh Technical Solutions Ltd

Date 18-11-20

**ANNEX C ASSESSMENT FOR ODOUR – Proposed GDK – 213-215 Commercial Street, Portsmouth, PO1 4BJ**

**PROJECT DETAILS**

Client	GDK
Site	<u>213-215 Commercial Street, Portsmouth, PO1 4BJ</u>
Prepared By	S.Priest
Date	18-11-20

**DETAILS OF THE REPORT**

Please find below our assessment of the potential nuisance Odour from the cooking carried out at the above site. This assessment has been carried out using: Risk assessment for Odour from the DEFRA & EMAQ guidance of the control of Odour and noise from Commercial Kitchen Exhaust systems.

**DISPERSION**

Description	Score	Details	Result
Very Poor	20	Low level discharge, into courtyard or restriction on stack	0
Poor	15	Not low level but below eaves, or discharge at below 10 m/s	0
Moderate	10	Discharging 1m above eaves at 10-15 m/s	0
Good	5	Discharging 1m above ridge at 15 m/s	5

**PROXIMITY OF RECEPTORS**

Description	Score	Details	Result
Close	10	Closest sensitive receptor less than 20 from Kitchen discharge	10
Medium	5	Closest sensitive receptor between 20 to 100m from Kitchen discharge	0
Far	1	Closest sensitive receptor more than 100m from Kitchen discharge	0

**SIZE OF KITCHEN**

Description	Score	Details	Result
Large	5	More than 100 covers or large sized take away	0
Medium	3	Between 30 & 100 covers or medium sized take away	3

Small	1	Less than 30 covers or small take away	0
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#### COOKING TYPE (ODOUR & GREASE LOADING)

Description	Score	Details	Result
Very high	20	Pub (high level of fried food) fried chicken, burgers or fish and chips	0
High	15	Kebab, Vietnamese, Thai or Indian	15
Medium	10	Cantonese, Japanese or Chinese	0
Low	5	Most pubs, Italian, French, pizza or Steakhouse	0

#### RESULT / CONCLUSION

Score 33

Impact Risk Result	Odour Control Requirement	Significance Score
Low to medium	Low-level Odour Control	Less than 20
High	High-level Odour Control	20-35
Very High	Very High-level Odour Control	More than 35

#### LOW LEVEL ODOUR CONTROL - EXAMPLES ONLY

Canopy baffle filters used as primary filters with canopy and barrier to flame

Canopy coalesce filters behind canopy to remove further grease from air stream

Carbon Filtration

Odour neutraliser

#### HIGH LEVEL ODOUR CONTROL - EXAMPLES ONLY

Canopy baffle filters used as primary filters with canopy and barrier to flame

Canopy coalesce filters behind canopy to remove further grease from air stream

UV Filtration

Electrostatic Precipitators (ESP) used in this instance to reduce grease in airstream

#### VERY HIGH-LEVEL ODOUR CONTROL - EXAMPLES ONLY

Canopy baffle filters used as primary filters with canopy and barrier to flame

Canopy coalesce filters behind canopy to remove further grease from air stream

UV Filtration

Electrostatic Precipitators (ESP) used in this instance to reduce grease in airstream

G4 Panel filters

F9 Bag filters

H10 Hepa filters

Activated carbon panels

## REGULAR SERVICE AND MAINTENANCE

Regular servicing and maintenance will be required to allow systems to operate as they were originally designed. Guidance has been given for servicing frequency's although this will depend of the type of cooking and frequency of activity.

Washable stainless-steel grease filters should be cleaned daily and part of the kitchen cleaning regime. The Esp system should be included in the maintenance and cleaning regime, along with the exhaust fan fully in accordance with use and the manufacturer's instructions. It is recommended a service contract with an accredited contractor is put in place, which should also include duct cleaning and any other kitchen exhaust equipment.

All ductwork cleaning shall be in accordance with TR19 published by BESA.

Examples of frequency	Low to Medium	High Level	Very High Level
Canopy baffle filters used as primary filters with canopy and barrier to flame	Daily	Daily	Daily
Canopy coalesce filters behind canopy to remove further grease from air stream	Daily	Daily	Daily
UV Filtration	See Manufacturers	See Manufacturers	See Manufacturers
Electrostatic Precipitators (ESP) used in this instance to reduce grease in airstream	See Manufacturers	See Manufacturers	See Manufacturers
G4 panel filters	4-6 Weeks	4-6 Weeks	4 Week
F9 Bag filters	6-8 Weeks	4-8 Weeks	1-3 Weeks
H10 Hepa filters	10-12 weeks	6-10 weeks	3-6 weeks
Activated Carbon Filters	40-60 weeks	30-40 weeks	12-10 weeks