

**Application to the relevant planning authority**

**The Planning (Hazardous Substances) (Scotland) Act 1997 - Section 5(1)**

**The Town and Country Planning (Hazardous Substances) (Scotland) Regulations 2015  
(Regulation 6)**

**Application for Hazardous Substances Consent**

<b>1 Applicant</b> Address	Reliance Energy Ltd.	
	Unit 2	
	Rectory Court	
	Old Rectory Lane	
	Alvechurch	
	Post code	B48 7SX
	Telephone number	Care of Agent
<b>Agent acting on behalf of the applicant</b> Address	Miss Maureen Darrie	
	iCon Environmental Centre	
	Daventry	
	Northamptonshire	
	England	
Post code	NN11 0QB	
Telephone number	01604771123	

Correspondence (including any Notice) to be sent to the agent instead of the applicant? Yes

If the applicant is not the person in control of the land to which the application relates, provide details of the person in control of the land.

Wordsworth Properties  
Unit 1  
Wordsworth Business Park  
Whaley Road  
Barugh Green  
Barnsley  
S75 1FJ

<b>2 Address or other location details of application site</b>	Redbrook Industrial Estate	
	Barnsley	
	South Yorkshire	
	England	
	Post code	S75 1HS
	OS grid ref	SE3176308266

### 3 Hazardous substance(s) covered by the application

- (a) List named substances falling within Part 2 of Schedule 1 to the Regulations first, then list any substances falling within the categories in Part 1 of that Schedule; finally list substances falling within the description in Part 3.
- (b) Substances falling within Parts 1 or 3 of Schedule 1 to the Regulations may be listed under the relevant category or description or named specifically. Where a substance falls within Part 1 and 2 list under Part 2 only; where a substance falls within more than one category in Part 1 list under the category which has the lowest controlled quantity. Where a substance falling within Part 1 or 2 also falls within Part 3 list under the Part which has the lowest controlled quantity. The "controlled quantity" means the quantity specified for that substance in column 2 of Parts 1, 2 or 3 of Schedule 1 to the Regulations.

**Table A**

Name, or relevant category or description of substance	Part number in Schedule 1 to the Regulations, and entry number if Part 2, category if Part 1, identity if Part 3	Do you have a current PHS consent* in respect of this substance? (Yes/No)	If "yes", state quantity for which consent granted	Maximum quantity proposed to be present in tonnes
Liquefied flammable gases, Category 1 or 2 Natural Gas (liquefied natural gas)	Part 2-18	No	N/A	49

\*A hazardous substances consent

### 4 Manner in which substance(s) are to be kept and stored

For each substance, category or description of substance, covered by the application, provide the following information, referring to the substance location plan where appropriate.

- (a) Tick one box below to show whether the substance(s) will be present for storage only or will be stored and involved in a manufacturing, treatment or other industrial process:

**Table B**

Part and entry number in Schedule 1 to the 2015 Regulations	Storage only	Stored and involved in an industrial process
Part 2, 18 Liquefied flammable gases, Category 1 or 2 (LNG) The Planning (Hazardous Substances) Regulations	Yes	

(b) For each vessel to be used for **storing** the substance(s) give the following information:

**Table C**

Vessel No*	Substance including Part no. in Sch. 1 to the Regs, and entry no. if Part 2, category if Part 1, identify if Part 3	Installed above ground† (Yes/No)	Buried (Yes/No)	Mounded (Yes/No)	Maximum capacity (cubic metres)	Highest vessel design temperature °C	Highest vessel design pressure (bar absolute)
1 -	Part 2, 18 Liquefied flammable gases, Category 1 or 2 (LNG) The Planning (Hazardous Substances) Regulations	Yes, full secondary containment (See Substance Location Plan – Marked 1)	No	No	120	50	11

\* identify by reference to substance location plan

† if "Yes", specify whether or not it will be provided with full secondary containment

- (c) For each substance, category or description of substance, state the largest size of any **moveable** container(s) to be used for that substance, category or description of substances:
- (d) For each substance, category or description of substance, describe any non-vessel storage (e.g. stacks) to be used for that substance, category or description of substances:

**Table D**

Part and entry number in Schedule 1 to the 2015 Regulations	Description of process	Major items of plant*	Max. quantity (tonnes)	Max. temp. (°C)	Max. pressure (bar absolute)
Part 2, 18 Liquefied flammable gases, Category 1 or 2 (LNG) The Planning (Hazardous Substance) Regulations 2015	Liquefied natural gas will be used to fuel 20 x 1.0MW (electrical) engines. These have a combined output of around 20MW (electrical)	Horizontal LNG Tank  8 x Vaporisers  2 x Power Block Units  Flogas Infrastructure	49	50	11

\* identify by reference to substance location plan

**5 Additional Information**

- (a) If you have an existing PHS consent(s) as referred to in Table A, **attach a copy of each consent** to this application.
- (b) Has any application for hazardous substances consent or planning permission relating to the application site been made and not yet determined?
- (c) Will such application be submitted at the same time as this application?

There is no PHS consent. A planning application has been submitted for the installation and operation of an LNG tank and associated infrastructure to be used in connection with FlexGen facility. The application (referenced 2018/0256) is yet to be determined.

- (d) **List the maps or plans** or any explanatory scale drawings of plant/buildings submitted with this application **(as a minimum submit a site map and a substance location plan – see Notes below)**.

Drawing GPP/RE/B/17/01 Revision 1: Site Location Plan

Drawing SK21 Revision B: Proposed Site Two Layout

Drawing SK23 Revision C: Proposed Site Two Elevations

Drawing SK24: Proposed Substances Location Plan

Drawing SK25: Substance Location Plan LNG Area

- (e) Give any further information which you consider relevant to the determination of this application.

A separate application for planning permission is currently being determined (see above).

### **Frequency of Delivery**

Based on 2,000 hours running time, LNG deliveries will total approximately 362 in any given year. The frequency will mirror the running pattern of the engines. Depending on the delivery tanker, the LNG capacity of the delivery will be around 20-22.5 tonnes. This will result in around one delivery per day dependent on the engine running time. Each delivery will constitute one delivery of LNG per day resulting in approximately one delivery per day, on average.

### **Delivery Pumping Rate**

The LNG will be delivered to the tank via a flexible hose with a length of 7metres. The flexible hose has an internal diameter of 33mm, approximately 5 metres of fixed rigid pipework, 40 mm internal diameter. The flow rate will be 400 litres/minute pumped at 400 litres/minute.

### **Automatic Shut-off and Safety System**

Wheel chocks (front and rear of each wheel) are used during delivery. There is an interlocking break connecting the rear vehicle door to the vehicle's brakes, i.e. if the rear door is open, the brakes are applied through the interlock on the rear door and the storage vessel's emergency shutdown system. Visual inspection of all hoses is carried out on each delivery, including flanges, connections, seals and general wear and tear. All hoses are pressure tested and re-certified every 12 months. The hoses are tested for leaks during the 12-month testing/recertification. Each delivery driver is given training specific to the vehicle in use and the fixed storage vessel system. There is a safety system which requires the driver to re-prime the system every two minutes, indicated by an audible siren and strobe. In the event that the driver does not re-prime the system, the gas flow is automatically shut down and the bottom slam shut valve is activated.

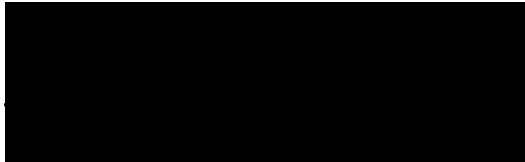
### **Bunding Details**

There will be a dwarf wall, 500mm tall, around the perimeter of the LNG compound (details attached). This contains the LNG in the event of a leak, until it evaporates. In the event of a leak, the LNG evaporates very quickly (turns from a liquid to a gas, as it warms up), and as the gas is lighter than air, it is dispersed upwards. The wall is not a full bund, which is not required, due to the nature of LNG.

### **Parking and Unloading**

Parking for unloading is shown on the Substance Location Plan along with the swept path. Vehicles will only be on site for the time required to unload.

**I/We hereby apply for hazardous substances consent in accordance with the proposals described in the application**

Signed .....  .....

On behalf of: RELIANCE ENERGY LTD

Date: 7<sup>th</sup> APRIL 2018