Design and Access Statement

For the proposed Deli refrigeration upgrade at Bakkavor Group Ltd, West Marsh Road, Spalding, Lincolnshire, PE11 2BB to include:-

A centrally located Ammonia to Glycol refrigeration plant which will provide ambient and process cooling to the Deli site as well as the process heating of water.

Revision History

Rev 1.0	04th December 18	First Issue

1.0 Introduction

1.1
This document contains information to support a Full Planning application for the proposed Deli Refrigeration upgrade for Bakkavor Group Ltd, West Marsh Road, Spalding, Lincolnshire, PE11 2BB

1.2
The site is located approximately 1.7m to the Northeast of the town of Spalding and covers an area of 24.20 hectares (59.79 acres) and is located in an industrial area of Spalding. Currently the site benefits from the planning use of B1a (Office) and B2 (General Industrial).

1.3
Bakkavor was founded in 1986 by the two brothers Ágúst and Lýdur Gudmundsson, to manufacture and export cod roe to Scandinavia. By 1996 Bakkavör had become a medium-sized company selling processed fish products direct to European retailers. Over the next decade the company focused on expanding its operations internationally into fresh prepared foods markets, and by 2008 had acquired a number of businesses in the UK, Europe, Far East and US. Its largest acquisition was Geest plc in 2005. The company delisted from the NASDAQ OMX Iceland in 2009. In 2012 the corporate structure of the Group was simplified with a new parent company domiciled in the UK. Bakkavor sold its French, Spanish and Czech businesses in 2014. This was followed by the sale of its South African operation and a 40% stake in its Italian business later in the year. The Group acquired US prepared foods manufacturer B. Robert's Foods in January 2015.

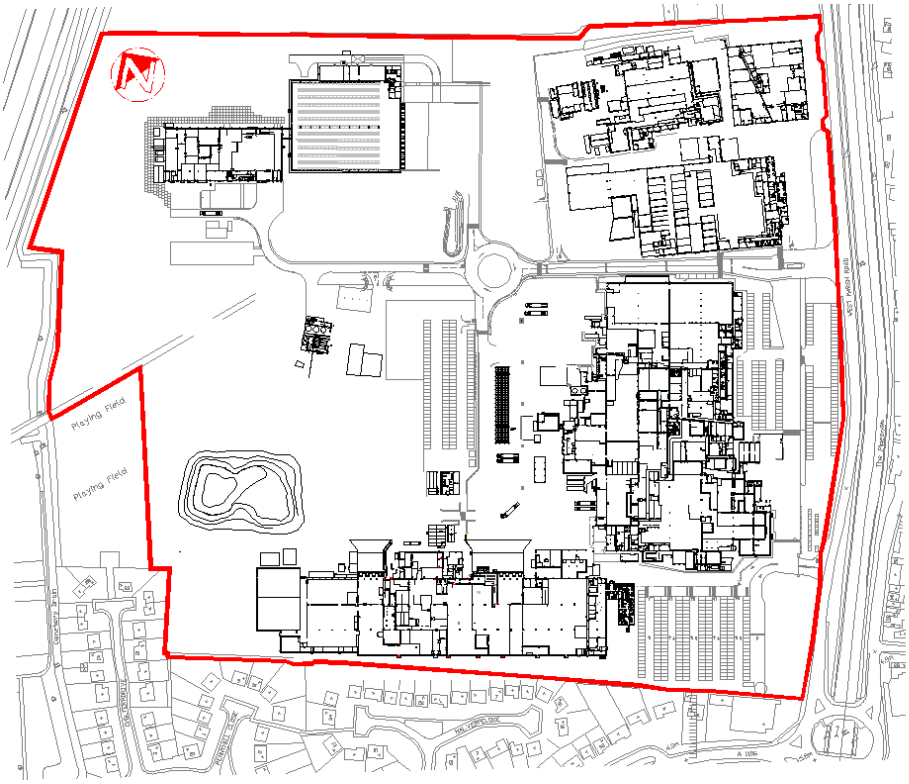
In January 2016, Bakk AL Holdings Limited, a company owned by Agust and Lydur Gudmundsson and funds managed by The Baupost Group, L.L.C., purchased shares in the Group. Bakk AL Holdings Limited owns approximately 89% of the outstanding shares in the Group.

2.0 The Site

2.1
The existing site consists of a mixture of production, office and warehouse units. Staff, visitor and delivery/dispatch parking is also provided within the site. Staff, visitor and delivery/ dispatch access is via the Gate House to the northern entrance off West Marsh Road with a separate Staff Only entrance also off West Marsh Road.

2.2
The site frontage is bounded to the eastern boundary by West Marsh Road and is planted with bushes and trees. The site is bounded to the southern boundary by a residential area and industrial buildings to the western and northern boundaries.

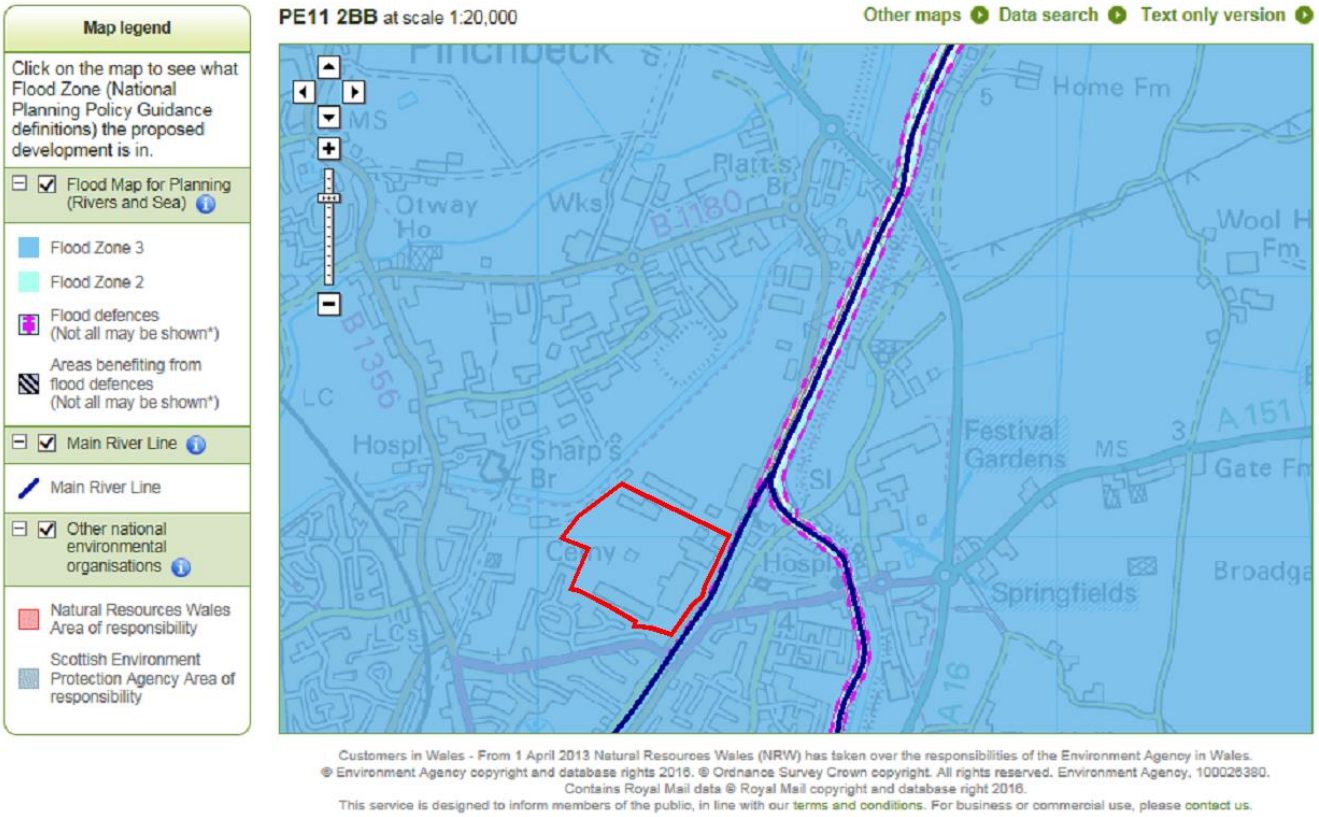
2.3
Site Plan



2.4
Aerial photograph of the Site. Image courtesy of Google Maps, © Google



2.5
Flood Risk Assessment Plan



3.0 Process

3.0
The design will incorporate the supply, design, installation and commissioning of 2 chillers, 1 heat pump, 1 hot water tank and associated pumps.

The chillers will provide the cooling required by various processes, air handling units and coolers located within the existing factory.

3.1
Electrical Services
The electrical services to the project comprise the elements described below, and will be designed in accordance with the relevant British Standards, CIBSE documents and Employer's Requirements.

Electrical Infrastructure & Distribution
The existing private HV infrastructure network on the site will be modified to accommodate the new plant.

3.2

Mechanical Services

Mechanical services installation to the Refrigeration Project will be required to assist the operation of the plant, and will be designed in accordance with the relevant British Standards, CIBSE documents and Employer's Requirements documentation.

4.0 Use

4.0

A centrally located Ammonia to Glycol refrigeration plant will provide ambient and process cooling to the Deli site as well as the process heating of water. This system will be made up of 2 low charge Ammonia Chillers and 1 low charge Ammonia heat pump. The ambient cooling is distributed around the factory via a network of glycol pipework and pumps attached to room air coolers. The process cooling will be provided via a falling film chiller, (cooled via the central Ammonia chillers) this will provide chilled water to the CQC's and flume wash. The Process heating will be provided via a combination of heat recovery and the Ammonia heat pump, these will heat water to 65°C that will then be stored ready for use. The hot water will be stored in a 150,000m3 stainless steel vessel ready for the CQC's and wash down. A secondary refrigeration system will be needed for room 23 (the blast chiller) this will be a water-cooled DX Co2 unit and will be located in the current "main refrigeration plantroom.

5.0 Layout

5.1

The Refrigeration plant covers an area of approximately 700m2 and is located to the south of the site adjacent to the existing Deli building.

6.0 Scale

6.1

The overall footprint of the 3nr Chiller units are in rectangular form with approx. dimensions of 7.4m x 10.2m with a rectangular overhead gantry with approx. dimensions of 5m x 13.3m to house the Cooler unit.

The water tank is approx. 4.2m diameter x 13m High.

7.0 Landscaping

7.1

The existing landscaping of the site will be unaffected by the works.

8.0 Access and Circulation

8.1

Access into the site from West Marsh Road will be unaffected from the proposals.

8.2

Current staff parking on the site will be unaffected by the proposal.