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Dow Corning Limited
Barry

New W208 Block - Design and Access Statement





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16 JUL 2014


ENVIRONMENTAL
AND ECONOMIC
REGENERATION


-  Introduction
 - Site Information

-  Character
 - The development

-  Environmental Sustainability
 - Environment and Sustainability

-  Community Safety
 - Community Safety and Communication

-  Accessibility
 - Access Statement

-  Movement to, from, and within the development



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Introduction

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Site Information

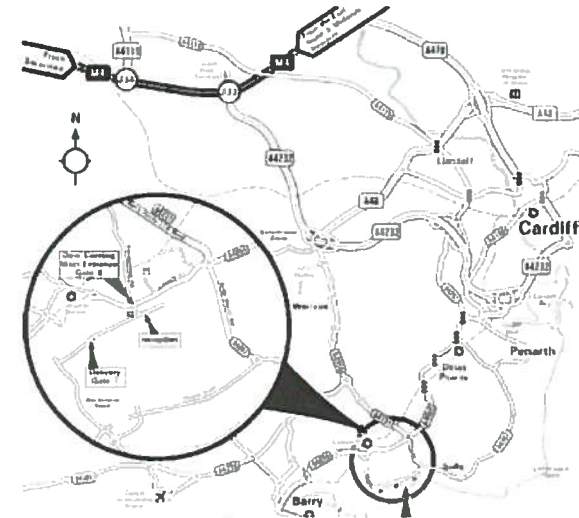
The link between Barry and Dow Corning dates back to 1952 when manufacturing of silicone based materials first began. Under the joint venture names of Midland Silicone. Dow Corning and Albright & Wilson started making silicone based products. Dow Corning took complete ownership of the site in 1971.

The site is one of the most modern and technically advanced silicone facilities in the World, with the Barry site being the largest plant operated by Dow Corning in Europe.

The 160 acre site is situated to the eastern part of Barry, South Wales in the County of the Vale of Glamorgan. With sea docks next to the site and excellent rail and road links to other parts of the UK and Europe, Barry makes an ideal location for manufacturing.

The site is bounded to the north by the residential area of Palmerston, the east by adjacent industrial units and other manufacturing and processing complexes. To the west by the sea docks of Barry, and to the south by a mixture of industrial premises and newly constructed residential accommodation.

The majority of vehicles accessing the site use the major docks link road and the main arterial road (Cardiff Road) off which the staff and visitors entrance is located and the Barry Docks road to the west of the site for all commercial traffic.



Wider site Location Plan



Overall Site Plan



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Character

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The Character

Building

1. Project Summary

The proposed building W208 located to the North East of the existing site has recently undergone partial demolition leaving only the original steelwork frame and ground bearing slab. It is proposed to refurbish and re-use W208 building as a new Welfare facility.

2. Project Main Features

The conversion is to cater for 100 male personnel on a 5 shift system with 20 per shift, including clean and dirty lockers and shower areas. Ratio of shift to day workers 90:10.

Facilities shall be male only with female facilities housed elsewhere on site and are not within the scope of this project.

The new facility should remain capable of accommodating future increases in capacity – circa 150 male personnel.

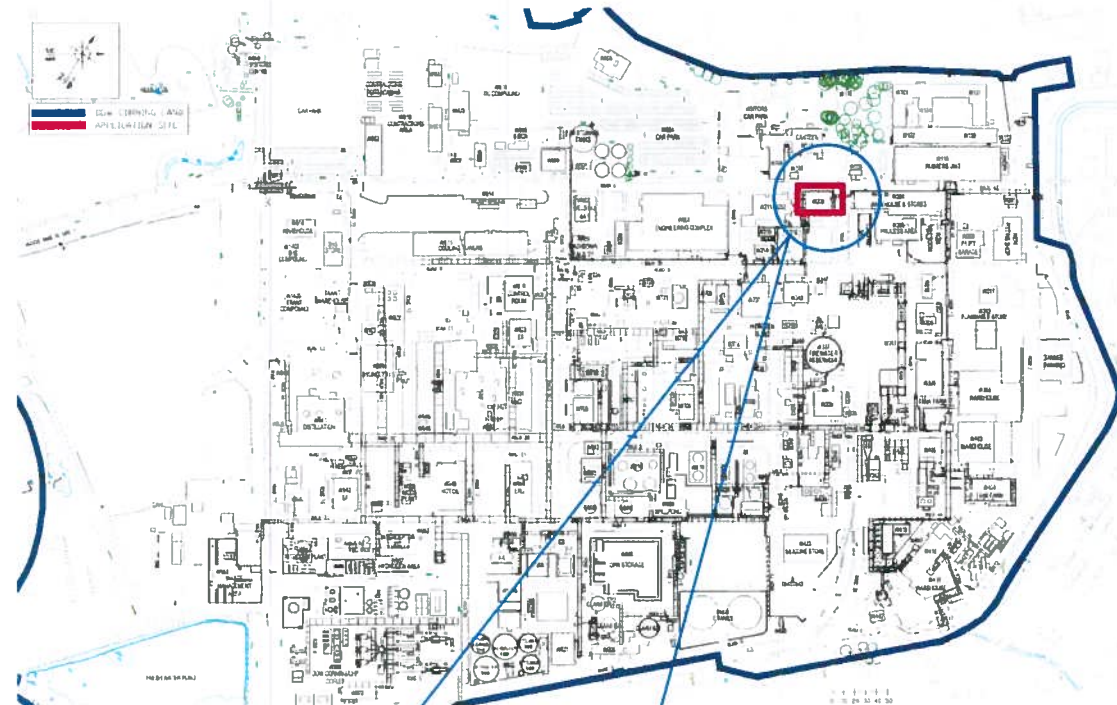
3. Environmental Regulation and Authorisation Required

None required

4. Materials Involved and Their Effect on the Environment, if Released

The proposed materials include the following:

- Composite Insulated cladding and roofing panels. The core is made up of Rigid polyurethane closed-cell foam and is made to a non-deleterious specification and is CFC/HCFC free.
- Concrete facing blockwork to inner walls all of which are non hazardous.
- Vinyl Flooring all of which are non hazardous
- Lay in grid suspended ceilings. Final specification is to be agreed and certification provided.
- Ceramic tiles in shower areas



Existing W208 Block

5. Direct Impacts

Not applicable

5.1 Releases to Air

Not applicable

5.2 Releases to Water

All surface water is be disposed into the Existing network.

5.3 Solid Wastes

All foul waste is to be disposed into the Existing network.

6. Indirect Impacts

6.1 Energy and Raw Material Efficiency

Energy/CO2 Emission Comparison of Hybrid vs Non Hybrid Cooling towers

Option	Fan	Power (kW)	CO2 Emitted/yr (kg)
Hybrid	200	1713600	467
Non-hybrid	132	1130976	308

6.2 Safety & Containment

The new project will undergone the typical safety reviews undertaken by Dow Corning Limited

6.3 Transport Details

This project will not result in any permanent additional travel related aspects, other than a

potential increase in vehicular activity to the Dow Corning site, for the transportation of materials during the Construction Phase.

6.4 Visual Impact

Enhanced by new cladding system and covering.

6.5 Noise Impact

The Development has taken due consideration of the Vale of Glamorgan’s Adopted Unitary Plan 1996 - 2011 and relevant national policy, including **Planning Policy Wales Edition 4 (February 2011) with particular reference to the policies listed below:**

- Policy ENV 7 Water Resources
- Policy ENV 26 Contaminated Land & Unstable Land
- Policy ENV 27 Design of New Developments
- Policy ENV 29 Protection of Environmental Quality

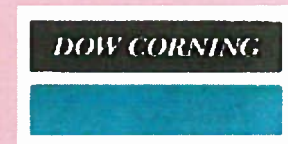
7. Economic Development & Tourism 5.4.8

- Policy EMP Developments involving hazardous s Substances
- Policy TRAN 11 Road Freight

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Environmental Sustainability



Environmental Sustainability

Dow Corning Limited, Barry is committed to the principles of sustainability. To fulfil that commitment Dow Corning continually works to :-

- Reduce the environmental impact and continually improve safety aspects of operations, products and services.
- Foster the well-being of employees and communities.

As a participant in the voluntarily subscribed chemical industry's Responsible Care Programme, Dow Corning provides silicone based products that can be manufactured, transported, used and disposed of safely. Health, safety, the environment and resource conservation are critical considerations throughout the product development and manufacturing process.

Dow Corning supports the principles of sustainability through its business strategies, process, products and solutions.

Air and water and land around the site are monitored regularly to prevent and reduce pollution. The plant processes are designed to minimise waste, energy, and the reduction of omissions.

Many of the waste products from the site are recycled, including paper, card, wood, metal, plastics, cans and office consumables.


The sites secondary waste water treatment plant reduces organic waste and further improves the output quality to the local water courses.

A combined heat and power plant, provides energy for the site with excess heat from the electricity generating plant used in the sites manufacturing process.

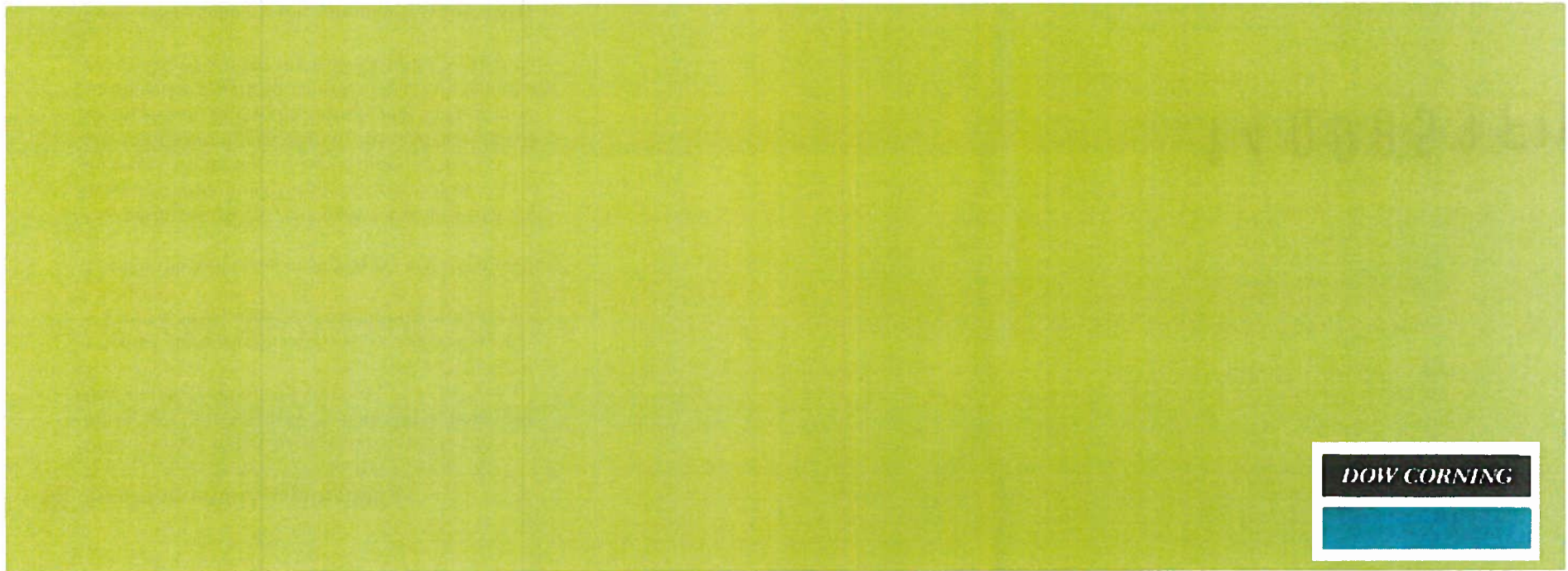
The aim of Responsible Care is for chemical sites to demonstrate continual improvement in health, safety and environmental performance.

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Community Safety



Community Safety

Dow Corning is fully committed to the wellbeing of surrounding neighbours (both residential and industrial) and employees. This is supported by a continual routine of checking, maintenance and any necessary repair work.

The Site Safety Management System is based on a programme developed by the Health & Safety Executive, with the aim for continual improvement in performance.

Occupational Hygienists monitor the working environment which is also linked to the sites Medical Centre which regularly checks and monitors employees.

The Site has its own fire fighting vehicles and trained emergency personnel. All of which work closely with local emergency services and other outside agencies.

Dow Corning has initiated over a number of years close liaison with the local community, with the formation of CAP (Community Advisory Panel) which is an independent group made up of people from the locality. CAP members meet Dow Corning on a regular basis and are free to raise any issues or concerns they wish. Dow Corning values this as an effective two-way dialogue.

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Accessibility



Accessibility

Dow Corning Limited, Barry is a large industrial silicone manufacturing plant occupying approximately 160 acres on the outskirts of Barry Town.

As a Control of Major Accident Hazards Regulations 1999 (COMAH) site, the access to the plant is severely restricted. All staff and outside contractors are required to be inducted on site procedures and safety prior to being allowed to access the site.

All visitors using the Main Gatehouse off Cardiff Road will normally be restricted to this area of the site as it contains reception, meeting rooms, and welfare facilities, all of which are also DDA compliant.

Occasionally, a visitor may be required to access some of the ancillary office accommodation around the site. Being a COMAH site with the Regulations enforced by the Health & Safety Executive and Environment Agency (EA) in Wales, any visitor (unless inducted) must be escorted at all times by a person or persons who have been fully inducted.

Visitors car parking is confined to an area directly adjacent to the main reception. Staff and contractors parking is confined to secure areas outside the curtilage of the main plant demise with controlled pedestrian access onto the plant at all times. Generally no private vehicles are allowed on site without appropriate permissions.



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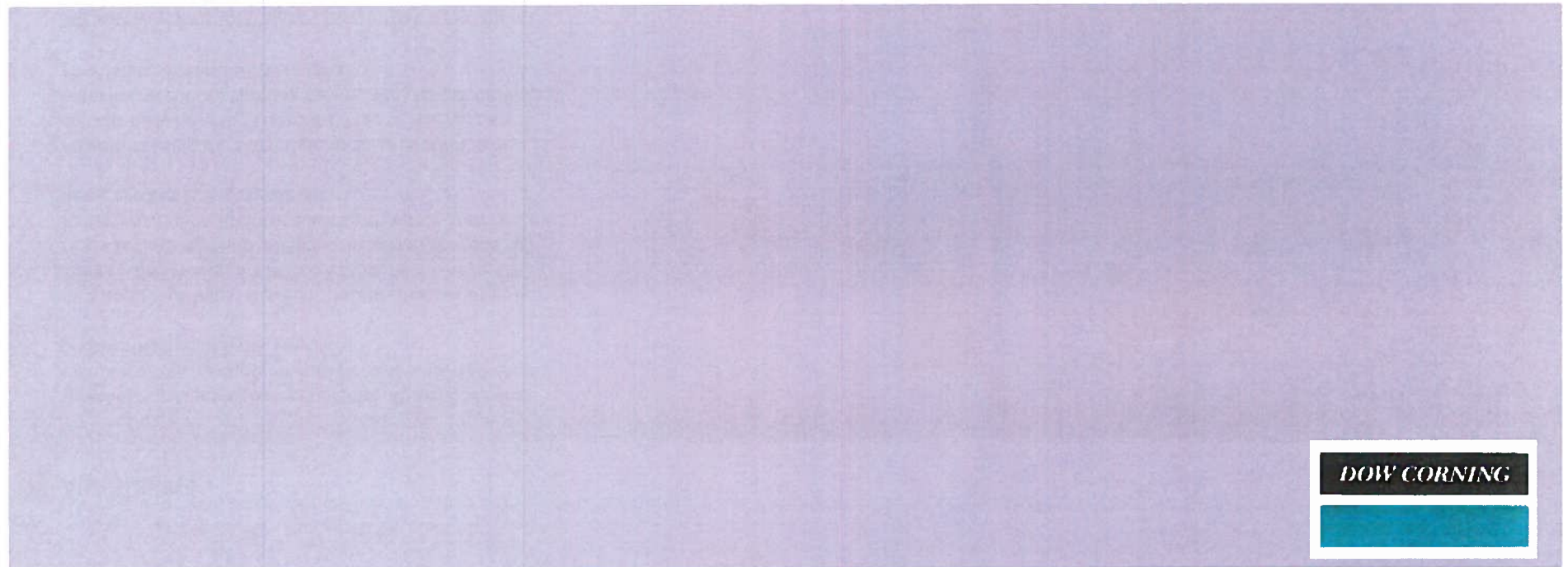
- KEY
- Reception/Security
 - Security
 - Staff Car Parks
 - Visitor Car Parks





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Movement



Movement

The development is within the confines of the complex, which is served by arterial roads and designated walking routes. Movement to, and within, areas of the plant is subject to stringent Health & Safety Regulations and site procedures.

All staff and outside contractors are required to be inducted on site procedures and safety prior to being allowed to access the site.

Contractors access to the site is designated to the South Gatehouse entrance located off the Docks entrance road and is clearly signposted.

The site has its own restaurant/canteen (W110) and Medical Centre (W109), together with a number of welfare facilities incorporated into buildings around the complex.

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