Company's safety management systems. In 2005 the EMS underwent successful re-certification to ISO 14001:2004.

Within the management system, specific Company Safety Instructions (CSIs) define the requirements of the EMS.

AWE's environmental management techniques are described further in Document B2.3 (AWE/DSDG/A/RP/AD/2039).

5 The AWE – Non-ferrous Metals Installation

The *AWE Non-ferrous Metals Installation* comprises three facilities on the AWE Aldermaston Site: Facility 1; Facility 2 and Facility 3. Each facility is used to undertake one or more of the activities identified in the Introduction to this document. The location of the Installation is identified on Map 1.2.

5.1 Facility 1

Facility 1 consists of a complex of metallurgical workshops and laboratories, in which manufacturing activities involving the use of beryllium are performed.

The facility comprises two main buildings - Building A and Building F - and their associated plant and services.

5.1.1 Building A

Building A is the main processing building. Beryllium metal is received into Building A, where it may be stored before being processed by a variety of operations including machining, cleaning, joining and inspection. After processing, beryllium components are despatched to other AWE facilities for further processing.

5.1.2 Building F

Building F is a mechanical testing laboratory, which houses equipment for tensile, impact, hardness, bend and compression and fracture toughness evaluation.

5.2 Facility 2

Facility 2 is a multifunctional facility, involved in undertaking a wide range of activities, the majority of which are not subject to control under the PPC Regulations 2000. However, Building G (part of the Facility 2 complex) is involved in manufacturing activities involving the use of beryllium.

5.2.1 Building G

Beryllium components are received in Building G from other AWE facilities and processed by a variety of operations including brazing, analytical inspection, titanium coating and solvent cleaning. After processing, components are despatched to other AWE facilities for further processing.

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5.2.2 Associated Activities

The activities undertaken in Building G are supported by a number of associated activities including radiography and beryllium material storage (undertaken within Building H); Chemical Storage (within the *Solvent & Chemical Storage Area* to the rear of Building I); and Beryllium Waste Storage (undertaken within Building J).

5.3 Facility 3

Facility 3 comprises a number of buildings and services, which are operated in support of the main processing building, Building K. Building K comprises four processing bays (Bays 1, 2, 3, and 4) and a ground floor plant room which houses much of the building's ventilation system plant as well as two effluent sump tanks.

5.3.1 Building K

A number of activities subject to control under the PPC Regulations 2000 are performed within Building K, including: manufacturing involving the use of gallium; manufacturing involving the use of beryllium; refining of non-ferrous metals; and the production of non-ferrous metals from secondary raw materials.

5.3.2 Building L

Building L is operated in support of the activities undertaken in Building K, providing storage and pre-process preparation areas; change rooms; a building systems control room; maintenance workshops and a variety of other services. Building L is served by a number of ventilation systems designed to maintain a suitable working environment.

5.3.3 Associated Activities

Several support buildings provide electricity supplies (Buildings M and P), cooling and heating for the ventilation system (Building M), chemical storage (Building N) and a Utilities Air Compressor (Unit Q).

New compressors are being installed in Building M and when commissioned the Standby compressors (Unit Q) and the old compressors in Building O will become redundant.

Current plans are to decommission and remove the Standby compressors, but leave the Building O compressors as back-up for a short period of time while the new compressors prove themselves. At some point later in the future a decision will be made regards decommissioning and removal of the Building O compressors.

5.4 Emissions to Air from the Installation

Normal and abnormal emissions are made to air from the *AWE – Non-ferrous Metals Installation* via eight point sources. Substances emitted to air include beryllium; lead;