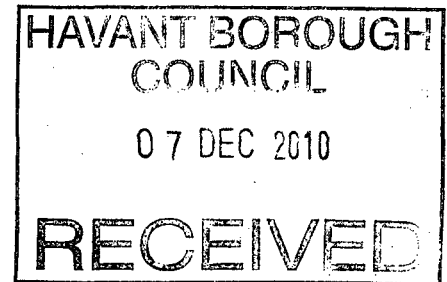


*Working for a healthier world™***Appendices 4: Ventilation and Extraction Statement**

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**PROPOSED EDC COLD STORE DEVELOPMENT PROJECT :****‘Ventilation and Extraction Statement’**

The cold store shall be designed to maintain the store at 5°C with temperature limits of 2-8°C. The AHU evaporator units shall be mounted at ground level external to the cold store to facilitate maintenance and servicing. The air change rate for cold store 2 is 14.3 air changes per hour and for cold store 3 is 11 air changes per hour.

Fresh air shall be provided for the occupants working in the cold store in accordance with the building regulations.

A ducted supply from each AHU evaporator unit shall discharge air in to the cold store at high level at the aisle positions. To prevent stratification, air shall be extracted from the cold store at low level and returned to the AHU evaporator unit.

The cooling system shall be designed to have built in back-up should any part of the system fail or is down for planned maintenance or breakdown.

Each AHU evaporator unit shall have its own dedicated externally mounted refrigeration compressor, condenser unit.

Energy Efficiency.

All ventilation plant shall be as energy efficient as is practicable.

All ductwork and refrigeration pipework shall be thermally insulated to reduce heat gain/loss to surrounding areas.

Environmental

Refrigeration gas shall be ozone friendly, non toxic and selected to give a low global warming potential.

Ventilation and cooling plant operational noise level shall be “equal to” or “less than” the Eastern boundary noise level criteria. See Noise Impact Assessment in the Design and Access Statement, Document Ref No C012164-AR-PL-001-Version 1- 2010.

