Appendix A – Climate Change Statement

Climate Change Statement for Planning Applications

Part 1: Applicant details

Name of applicant/agent	Artur Szymonik
Site Address	8 Staynton Crescent, Huddersfield, HD2 1RL
Description of Development	Two-storey side and rear extension to existing dwellinghouse

Part 2: Climate Change Mitigation measures

Please respond to the following questions considering the measures set out in the Climate Change Guidance note:
Q1: What measures have been/will be taken to reduce the energy demand associated with your proposed development beyond the minimum required in Building Regulations? (See section 2)
The proposal is a householder extension to an existing dwelling. The extension will be constructed on a fabric-first basis, with U-values improved on the Part L 2021 notional values: external walls 0.18 W/m²K, roof 0.11 W/m²K, ground floor 0.13 W/m²K, windows and external doors 1.2 W/m²K. Continuity of insulation will be maintained at all junctions with the existing dwelling to minimise thermal bridging, and accredited construction details will be used at eaves, reveals and floor/wall junctions. Air permeability will be improved beyond the notional standard through taped membranes and sealed service penetrations. All lighting within the extension will be LED. Heating to the new rooms will be zoned separately from the existing dwelling, with thermostatic radiator valves and programmable controls, so that the extension does not increase the heating demand of the existing house.
Q2: What measures have been/will be taken to limit the carbon consumed through the implementation and construction processes, e.g. by reusing existing on-site materials or sourcing materials locally? (See section 3)
The proposal retains and extends an existing building rather than replacing it, which retains the embodied carbon of the existing structure. Excavated material will be re-used on site for levelling and landscaping wherever it is suitable, reducing off-site disposal and imported fill. Facing materials will match the existing dwelling and will be sourced from suppliers in West Yorkshire wherever available, keeping transport distances short. Timber will be FSC or PEFC certified. Materials will be ordered to standard sizes to minimise offcuts, and construction waste will be segregated on site into inert, timber, plasterboard and general streams for recycling. No waste will be burned on site.
Q3: What measures have been/will be taken to utilise renewable or low carbon energy sources? (See section 4)

The roof of the extension is designed to accept solar photovoltaic panels, with the structure sized to carry the additional load and a service route provided to the consumer unit so that panels can be installed without further building work. Where the existing gas boiler is replaced as part of the works, a low-NOx condensing appliance will be installed and pipework and emitter sizing will be specified to allow later conversion to an air source heat pump without re-piping. An external electric vehicle charging point will be provided within the curtilage.

Q4: What measures have been/will be taken to ensure the building design and layout has been optimised to energy efficiency beyond the minimum requirements in Part L of the Building Regulations ? (See section 5)

The extension has a compact form with a low ratio of external envelope to internal floor area, which limits heat loss. Principal habitable rooms and their main glazing face, maximising useful solar gain in winter and daylight throughout the year, reducing demand for artificial lighting and heating. Glazing areas are balanced against the risk of summer overheating, with roof overhangs and the two-storey massing providing shading to the ground floor openings. The single-storey element is positioned so that it does not overshadow the remaining garden or neighbouring habitable room windows. The roof pitch and orientation are suitable for future solar PV.

Q5: What measures have been/will be taken to reduce potential impacts of flooding associated with your proposed development? (See section 6)

The site lies within Flood Zone 1 and is not within an area identified as having critical drainage problems. The extension adds a limited area of impermeable roof surface. Surface water from the extension roof will be discharged in accordance with the drainage hierarchy in Part H, with infiltration via soakaway investigated in the first instance and connection to the existing surface water system only where ground conditions do not permit infiltration. Rainwater butts will be fitted to downpipes to attenuate and re-use roof run-off. No existing permeable garden surfaces will be replaced with impermeable hard standing as part of this proposal.

Q6: What measures have been/will be taken to reduce water stress associated with your proposed development? (e.g. Water retention and minimisation measures) (See sections 7 and 8)

The site is within the Yorkshire Water supply area, which is subject to water stress. New sanitaryware will be specified to achieve a consumption of no more than 110 litres per person per day: dual-flush WCs at 4/2.6 litres, showers at 8 litres per minute or less, flow-restricted taps at 5 litres per minute, and a washing machine and dishwasher (if relocated as part of the works) rated A for water efficiency. Rainwater butts will supply garden irrigation, and no automatic irrigation system is proposed.

Q7: What measures have been/will be taken to provide biodiversity net gains? (See section 8)

The proposal does not affect any designated site, priority habitat or watercourse, and no trees will be removed. The following enhancement measures will be installed and are shown on the submitted plans: one integrated bat box or bat access brick within the gable of the extension at a minimum of 4m above ground level on the southern elevation; one integrated swift brick or house sparrow terrace at eaves level; and a 13cm x 13cm hedgehog gap in the rear boundary fence to maintain connectivity between gardens. New planting within the garden will use native and nectar-rich species. Any removal of vegetation will take place outside the bird nesting season (March to August inclusive), or will be checked immediately beforehand by a suitably qualified person.

Q8: What measures have been/will be taken to reduce air pollution associated with your proposed development? (See section 9)

The site is not within or adjacent to an Air Quality Management Area. During construction, dust will be controlled by damping down during cutting and demolition, cutting with water suppression or on-tool extraction, covering of stockpiles and skips, and keeping the site access clear of mud. No materials will be burned on site and plant engines will not be left idling. In use, air quality impacts are minimised by the provision of an electric vehicle charging point, secure cycle storage within the curtilage, and — where the boiler is replaced — a low-NOx appliance with emissions of no more than 40 mg/kWh. Low-VOC paints and finishes will be used internally.