

Appendix 9J.C – Incorporation of SuDS principles within the Proposed Development

Principle	Explanation
Prevention	<p>Sustainable development is at the forefront of National Grid's design process. The following preventative measures have been incorporated into the design of the Proposed Development:</p> <p>1/ During the design of the Proposed Development, the following preventative measures were incorporated:</p> <ul style="list-style-type: none"> • Location of SEC - the rationale for proposed SEC search area is that they should be located as close to the existing OHL as possible to minimise any new OHL required to connect the SEC to the existing remaining OHL; and • 400kV Cable alignment selection - the preferred 400kV Cable alignment is based on engineering and environmental constraints, e.g. avoiding known environmental constraints wherever possible. <p>This reduces the areas of new hardstanding surfaces by limiting the number of new pylons and by reducing the length of the 400kV Cable as well as length of the permanent access road to the SEC.</p> <p>2/ During the operation phased, embedded mitigation are in place such as:</p> <ul style="list-style-type: none"> • Use of appropriate measures to prevent spillage of potentially polluting substances; and • Fuels, lubricants solvents etc. will be stored in appropriately bunded areas and other pollution prevention measures taken where appropriate. <p>This reduces pollution risk and prevents of the need to treat runoff generated from the site.</p> <p>3/ The new access roads will be surfaced with grasscrete or similar, thus significantly reducing the total area of new impermeable hard standing.</p>
Source Control	<p>The following source control techniques have been incorporated into the Proposed Development:</p> <p>1/ As part of the design of the SEC, 75mm of clean stone graded will be used. The gravel will be underlain by an unbound free draining sub-base, which will offer additional storage capacity. Gravel provides storage space for the surface water runoff generated from the Proposed Development and, depending on the underlying ground conditions, will also encourage infiltration to ground. This follows the principles of source control.</p>

	<p>2/ The design of the SEC in this way will remove the need for each compound to discharge surface water runoff to an off-site receptor, thus preventing the generation of additional surface water runoff.</p> <p>3/ The new access roads to the SEC will be surfaced with grasscrete or similar, which will significantly reduce the total area of new impermeable hard standing. The grasscrete layer will also be underlain by an unbound free draining sub-base, which will offer additional storage capacity and, depending on the underlying ground conditions, will also promote infiltration to ground.</p>
Site Control	The Proposed Development will not require Site Control techniques, given that the prevention and source control measures described above will be adequate to ensure sustainable drainage over its intended lifetime.
Regional Control	The Proposed Development will not require Regional Control techniques, given that the prevention and source control measures described above will be adequate to ensure sustainable drainage over its intended lifetime.