Method statement for photo simulation of the proposed Nuclear-1 power station at Thyspunt

1   The photograph's position was recorded in coordinates in WGS48 format.

2   The coordinates as well as the site constraint plan that showed the position where the Nuclear Power Station should be located were inserted into the Google Earth aerial image of the site and surrounding area. The distance of the viewer from the site was determined.

3   A three dimensional wire diagram of the NPS that was supplied by Eskom was used in the program 3D Max.

4   Using the above computer programme, the three dimensional wire model was placed on the site plan, which in turn was placed on a Digital Terrain Model (DTM) that had three dimensional contours. The coordinates and the distance were entered and the computer programme generated an image of the NPS as it would be seen from the photo point.

5   The digital photo was opened in the computer programme and the wire image of the NPS on the contoured landform was overlain to match the landform on the photo to the landform of the computer image.

6   The wire diagram of the Nuclear Power Station then fixed to the digital photo. The Nuclear Power Station on the photo was shaded to complete the solid form of the structure.

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