Application Ref. xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

Level 3 Communications Ltd, Moreland House, 260-266 Goswell Road, London EC1V 7EB

Proposal: Retrospective Planning Permission for 4 x Satellite Dishes

DESIGN AND ACCESS STATEMENT

Level 3 Communications Ltd. provides internet, fibre-based transmission, voice, and content and media services from its London facility at Moreland House, 260-266 Goswell Road, London EC1V 7EB. Level 3 Communications' content and media service portfolio includes internet streaming of both continuous live television programmes on a 24 x 7 basis, and one-off sporting and other events for major broadcasters. This involves the acquisition of live television feeds which are then encoded for internet-based distribution. Typically, satellite transmission is used to transport the live television feeds between the broadcaster and our London encoding facility.

To support these services Level 3 Communications has installed four 1.2 metre satellite dishes on the roof of its London facility at Moreland House, 260-266 Goswell Road. Level 3 Communications Ltd. is now seeking retrospective Planning Approval for these four satellite dishes, in parallel with making a second application for further expansion of the satellite dish farm.

Three of four existing satellite dishes are fixed units and are permanently / semi-permanently aligned to a specific satellite. The fixed units are used for continuous 24 x 7 television programme signal acquisition, and long-duration events. Re-alignment to a different satellite can only be performed manually and requires an on-site roof visit. The fourth satellite dish is a remotely steerable unit and can be remotely realigned from our Operations Centre without the need for an on-site roof visit. This unit is used for one-off sporting and other events requiring rapid satellite realignment.

All four satellite dishes need to be capable of receiving signals from a wide range of satellites with footprints covering Europe, Middle East and Africa. Our satellite link budget calculations indicate that this can only be achieved using satellite dishes of 1.2 metres diameter, or greater.

The three fixed satellite dishes are based on the same Fixed 1.2 metre Andrew Type 120 1.2m Receive-Only Offset Antenna System. The grey fibreglass reflector (dish) is bolted directly to an Azimuth (Az) / Elevation (El) Cap Mount (Andrew Model 6031/05) which in turn is installed on a 3" metal kingpost. The kingpost is securely fixed to a roof-mounted metal plinth. Metal stays have been added to improve stability and wind resistance. The Andrew Az / El Cap Mount is marked with an elevation scale and is provided with a single bolt fine elevation adjustment mechanism.

The steerable satellite dish uses an Andrews Type 123 Class II 1.2 metre Receive-Only Steerable Offset Antenna. The reflector (dish) is made from grey coloured glass fibre reinforced polyester. Horizontal and

Vertical dish movement is provided by two 36v dc motorised screw jacks / linear actuators which are powered from a dc power supply located in the dish controller unit which is sited alongside in a rooftop equipment room. The fibreglass antennae is bolted to a metal backframe. The antennae, backframe and the horizontal and vertical motorised screw jacks are then fixed to a vertical kingpost via an antennae mount which includes the main bearing assembly. The kingpost is securely fixed to the roof-mounted metal plinth with additional metal stays to improve stability and wind resistance.

IMPACT STATEMENT

For satellite visibility the four satellite dishes need to be south facing. The satellite dishes are grouped together on a metal plinth and located on the south –side Upper Roof Area of the building. All four dishes are visible from ground-level. The 1.2 metre diameter reflector of each dish is made from grey coloured glass fibre reinforced polyester, which matches the Grey Chiller Plant and other Screening on the Roof area.