



Appendix E

Correspondence from ESB re 110KV



INTERNATIONAL

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Our Ref: PE407-F289-1-9223

8th December 2017

JFOC Architects,
11A Greenmount House,
Harolds Cross,
Dublin 6W.

Re: Proposed residential development at Earls Court, Kill, Co. Kildare in spans 18-19 of the Killeel-Monread 110 kV Transmission Line (previously operated as Killeel - Maynooth - Monread 110 kV).

A Chara,

Further to your enquiry to this Office 30-11-2017 (Ref. 00-129), in relation to a proposed residential development in the above 110 kV Transmission Line Span, please refer below:

The Folio concerned is KE42976F (Plan No. A6K34).

For reference, Poleset 19 is located to the North West of the proposed development (adjacent to existing school).

Design Clearances

I have carried out the required Electrical Safety Building Clearance Calculations with reference to span 18-19 of the Killeel – Monread 110 kV Transmission Line

I have based my clearances on the drawings received via emails as outlined below:

- 00.129_Site_Layout_to ESBI.pdf (received 30-11-2017)
- 1715-101-P1.pdf (received 01-12-2017)
- 00.129_Site_Layout_20171128_DXF_ITM_metres.dxf (received 04-11-2017)
- 17-032-2_BD_SURVEYS_ORIG_SURVEY_REINSERTED.dxf,
ORIGSURVEY+HILL_JFOC_REVISE_2017_pa.dxf,
V_00_25103107_00000001.dxf (received 04-11-2017).

As per your drawings above, the closest perpendicular distance from the 110 kV centreline to the proposed housing units is 20m.

The centreline in this case is the middle overhead conductor (wire).

A road crossing is proposed beneath the above span i.e. span 18-19 within 92m of Poleset 19, the proposed finished road level of 108.563m (CH10) and 108.469m (CH20) is from "1715-101-P1.pdf" your survey shows existing ground level of 108m - 109m from drawing "ORIGSURVEY+HILL_JFOC_REVISE_2017_pa.dxf".

Existing ground level at road location of 108.52m as surveyed by this Office.

The above clearances are based on this Offices surveyed ground level 05-12-2017 and existing 110 kV infrastructure as of 05/12/2017.

Based on the above information ESB would have no objection to the proposed development based on the above drawings.

The above clearance is site and location in span specific and should not be applied within other Transmission Line Spans or Sites.

Please note that the clearances above can be reviewed and discussed further.

TV aerials, palisade fences, lighting columns, goalposts, security cameras etc. must not be erected in the vicinity of the 110 kV Transmission Line without first receiving clearances from ESB.

Any further buildings, plant rooms, garages, garden sheds, playhouses etc. must not be built within 23m of the 110 kV Transmission Line centreline without first receiving clearances from ESB.

Please ensure that any revisions or alterations to the planned works in the vicinity of the 110 kV Transmission Line (i.e. Road Locations, Heights Building dimensions and locations relative to the 110 kV Transmission Line, finished ground/road levels, and land use etc.) are re-issued to ESB Networks/ this office for review prior to any work commencing to ensure all of the above electrical clearances have been adhered to.

Construction Safety

The clearances stated above are for the final completed building in relation to the finalised plans. They are not relevant to the construction restrictions that would have to be put in place for the duration of the construction stage of the project.

A soft copy of the ESB Networks, HSA booklet "Code of Practice for Avoiding Danger from Overhead Electricity Lines" is included in this Letter.



Particular attention should be made to sections 7 & 8. Bunting, warning signs, barriers and dedicated crossing points must be erected as per figures 5 and 6 from the previously mentioned Code of Practice where the 110 kV Transmission Line traverses the site.

We are informing you of the dangers involved in working under or adjacent to overhead lines. Recommended methods and procedures are set out in this pamphlet which, if adopted will provide a positive approach to the elimination of accidents / tragedies.

Extreme care should be taken when operating machinery which have extendable booms or high working radius, examples of these would include but not be limited to diggers, elevators, screeners, crushers, cranes, hiabs, loading shovels, tractor-loaders, drilling rigs, and teleporters. Extreme caution is also advised when operating dumpers and tipping bodies close to overhead power lines.

Please notify your local ESB office if in any doubt regarding the use of this type of machinery adjacent to ESB Transmission Lines.

If trees are to be planted adjacent to or under the transmission lines, they should be of the dwarf type. The reason for this is that trees will have to be lopped if they infringe on ESB's Electrical Safety Clearances (**maximum height allowed for trees is 3m**).

Building material, soil, spoil, etc. must not be stored under the line.

The terrain under the line must NOT be raised without first receiving clearances from ESB.

Please contact this Office / ESB Networks prior to commencing any excavations works which could impact on the Structural Stability of the 110 kV Poleset or within 10m of 110 kV Poleset.

It is essential that whoever has overall responsibility for work on the site i.e. you, your consultants, your contractors, etc. contacts the local ESB Networks Transmission Office / this Office to agree safe working procedures prior to commencing construction / enabling works.

Mr. Alan Brown, Engineering Officer, HV Construction North, ESB Networks, Kylemore Way, Ballyfermot, Dublin 8. 087-9273970.

Other ESB Services

It is essential that contact is made with your local ESB Networks office regarding any other ESB services, i.e. Overhead Lines and Underground Cables which may be present on site, contact details are provided in Appendix 6 of the previously mentioned Code of Practice.



INTERNATIONAL

Thank you for consulting with ESB regarding your proposed development.

Should you need any further information or clarifications please do not hesitate to contact me on 087-1461175.

Yours sincerely,

A handwritten signature in blue ink, appearing to read 'DK King', written over a horizontal line.

Daniel King
Conflicts and Arbitration,
ESB International.

Copy: Mr. A. Brown, Engineering Officer, ESB Networks, Kylemore Way, Ballyfermot.

Mr. P. Moran, Lines Project Supervisor, ESB Networks, Inchicore.

Mr. E. Judge, Manger, HV Lines & Cables, HV Construction North.

Mr. T. McGeough, Conflicts and Arbitrations Manager, ESBI, St. Stephens Green.

Encl: ESB Networks/HSA booklet "Code of Practice for Avoiding Danger from Overhead Electricity Lines"