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13 March 2018

DesignInc
Level 12, 77 Pacific Highway
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Attention: J. Ong

Dear Jacqueline,

**RE: Ultimo Pyrmont Public School
EMF Shielding Impacts and Mitigation**

JOB NO: 160204

JHA Consulting Engineers have been engaged as the Level 3 Accredited Service Provider to undertake design works for a new on-site 1 x 1000kVA chamber substation and electrical infrastructure including a new electrical main switchroom as part of the redevelopment of the Ultimo Pyrmont Public School, 47-53 Jones Street Ultimo NSW.

Associated with the substation and electrical switchroom works, Electromagnetic Field (EMF) radiation generated by these electrical installations have been addressed in co-ordination with the following standards and requirements:

- AS/NZS 61000.6.1:2006 Electromagnetic Compatibility (EMC) Generic Standards
- AS 2384:1995 Computer Accommodation, Clause A5.4
- ARPANSA Draft Radiation Protection Standard for Exposure to Electro and Magnetic Field 0 – 3kHz, 2006

In consideration with the above standards and guidelines, EMF field strengths at sensitive areas surrounding the new infrastructure were theoretically calculated to be above the required safe threshold limitations for electrical equipment interference (37.5mG) and the recommended levels for children exposure (4mG).

As a statutory and precautionary arrangement to reduce field strengths to within tolerable limits, EMF shielding installation as per the attached concept sketches dated 7th March 2018 has been proposed as a permanent installation to cater for the lifetime of the building.

Yours sincerely,

Kosma Tzannes
Senior Level 3 Engineer