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Attention: Jason Simkins – Project Director

Our Ref: PPF1/PL01/EN02/00007

Your Ref:

1-Dec-2010

**For the attention of Mr Jason Simkins – Project Director**

Dear Sirs

**Power PFI Project  
SSL PACKAGE 1A  
T&R Auxiliary Transformers**

Following a detailed review of the Technical Dossier and Compliance Matrix submission ref. MNL-ELC-A001-010263 Rev 01.pdf, and updated compliance matrix (Rev 04), Powerlink's Equipment Approval Panel (EAP) have recommended the following equipment for approval.

- T&R 11kV/433V 3Φ 50Hz Dyn1 500kVA & 800kVA ANAN Cast Resin Auxiliary Transformers
- T&R 11kV/433V 3Φ 50Hz Dyn1 500kVA KNAN Midel 7131 filled Auxiliary Transformers

Approval is subject to provision of detailed O&M manuals and the following concession against Powerlink Specification SP80401v2 (Specification for 22 and 11kV/433V Three Phase Auxiliary Transformers for Use on The System) for:

- Clause 12.16.2 – Winding temperature indicator (cast resin only)

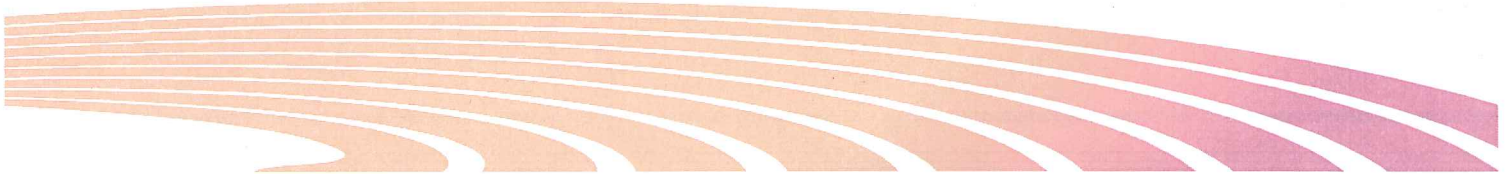
Approval is granted on the basis that:

- The transformers do not exceed 2.5m in height and working platforms are not required,

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Keywords:  
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Reply Required: No  
Originator:

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- A service life of 55 years is achievable if the appropriate reasonable operating and maintenance regimes are followed,
- The rated lightning withstand impulse voltages are 75kV(peak) and 95kV(peak) for Midel and Cast Resin respectively.

A list of spare parts and consumables is to be reviewed separately.

Maintenance requirements have been clarified in an updated section 8 of the Technical Dossier, confirming that:

- for cast resin transformers, the temperature indicator can be checked annually (rather than six-monthly) without infringing any warranty,
- for Midel filled transformers, both the temperature gauge and tap-changer can be checked annually without any warranties being infringed,
- Midel sampling will be carried out using ½-litre bottles, and that even if an annual maintenance regime is followed, topping up of fluid will not be necessary over the 55 year expected life of the transformer.

Package 1A sites for which approval is applicable are: Neasden Depot (2 x 500kVA Midel), Marlborough Road (1 x 500kVA Cast Resin), and Finchley Road (2 x 800kVA Cast Resin).

Although fire and materials information has been provided, additional checks and information may still be required before this equipment can be used at any other sites – particularly on Section 12 sites – i.e. where LU Standard 1-085 applies.

The formal process requires a Powerlink equipment approval document (which is under preparation) and ratification by the DRP, but in view of the time constraints, please accept this letter as conditional approval.

Yours faithfully



**Andrew Pallett**  
**Power Manager**

cc. (LU/SSR:) David Rushton, Daren Stinton, Don Bootle, David Elliott  
(Powerlink:) I Draper, P Smith, N Gardner, G Lennon, A Blackwell, K Tausney

