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Attention: Jason Simkins – Project Director

Our Ref: PPF1/PL01/EN02/00006

Your Ref:

1-Dec-2010

For the attention of Mr Jason Simkins – Project Director

Dear Sirs

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

Following a detailed review of the Technical Dossier and Compliance Matrix submission ref. MNL-ELC-A001-011445 Rev 01.pdf, and updated compliance matrix (Rev 02), Powerlink's Equipment Approval Panel (EAP) have recommended the following equipment for approval.

- T&R 11kV/433V 3Φ 50Hz, ZNyn1 500kVA KNAN Midel 7131 filled Earthing / Auxiliary Transformers

Approval is subject to provision of detailed O&M manuals and the provisos noted below. No concessions have been submitted against Powerlink Specification SP80403v2 (Specification for 22 and 11kV Earthing Reactors / Auxiliary Transformers for Use on The System).

Approval is granted on the basis that:

- Although the transformer exceeds 2.5m in height, the need for a concession has been waived on the basis that all routine maintenance activities can be performed at ground level.
- In spite of this, a safe working platform is being supplied for each substation for joint use with the transformer rectifier units.

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- A service life of 55 years is achievable if the appropriate reasonable operating and maintenance regimes are followed,

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:

- 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.

The Package 1A sites for which approval is applicable is: Harrow (2 x 500kVA Midel).

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

