PLPC LTD

POWER LINE SPECIALISTS

G037B Steelwork Repair

Document Ref	PLPC S2612 V2	**Review Date**	August 2017
Prepared	Jack Livingston	**Date**	August 2016

Background

A patrol has been carried out by Scottish Power on the G Route and tower G037B has been found to have damaged bracing and raker bars in need of repair. The tower sits in a SAM site and shall require a watch and brief.

Activity

To break existing muffs to replace bracing and raker bars using small plant, reinstate muff. The majority of the work shall be completed in two days however due to the drying time required for the cement a second visit will be required to remove shuttering.

Hazards

Access to site.

Working with cement

Excavations.

Use of various items of plant and equipment.

Livestock and environmental

Damage or disturbance of archaeological remains

Precautions

All access routes to be agreed and followed strictly

Suitable PPE to be worn when working with cement.

Exclusion zones will be established when working near livestock.

Any excavations that are left open will be guarded as required.

All the staff employed on site will be competent for their tasks.

Cement to be mixed at tower base to prevent any spills during transport.

A tarpaulin sheet will be placed under mixer to prevent land contamination.

Preparation.

All staff will be signed on to the risk assessment.

Authorisations, plant operator certificates and all plant and equipment certificates will be available on site for inspection.

A programme of work will have been agreed and communication will be established between the landowner and site staff.

The access routes will be identified and adhered to. All gates shall be shut after use.

Archaeologist to be present during excavations to monitor works and record any archaeological remains discovered.

Method

Excavation Work

- All digging works carried out are to be around the existing tower location.
- An archaeologist will be in attendance during excavation works.
- The mini excavating machine to have all teeth removed from the bucket in line with the agreed written scheme of investigation.
- Spoil removed from tower base will be subject to a metal detecting survey as per WSI.
- A square of 1.5mt x 600mm deep shall be excavated from each corner leg.
- The distance of 1.5mt shall be measured from the corner leg and marked out before excavation works begin
- The soil removal shall be carried out with caution.

Muff Cap

- The existing muff cap shall be broken down using a kango hammer.

- All debris shall be removed from site.
- All broken steelwork shall be unbolted and removed from site.
- A new section of steelwork shall be fitted and bolted securely.
- Shuttering shall be placed around the corner leg and to allow new concrete to be poured in.
- Once set, the shuttering shall be removed and the spoil will be backfilled and compacted around the tower leg.
- The will be repeated for all 4 corners.

The Area

- The area shall be tidied around the work location.
- Final inspection to be carried out and any further debris to be removed from site.
- Tape and barrier equipment to be removed.

PPE and safe working practices will be used throughout the project.

General site PPE hard hats, overalls, safety boots, hi visability clothing, gloves and safety glasses as required.

All work will be carried out in accordance with Scottish Power Energy Networks Safety Rules.

We have read and understand the content of this method statement.

G037B Steelwork Repair Method Statement

Name	Signature	Date.

JCB 8018 **1.8 tonne**





Kango Hammer

