

## 1. SCOPE

This procedure does not cover maintenance, repairs to or replacement of the Air Break Switch Disconnecter (ABSD) and only applies to the installation of the high level operating handle.

This installation shall only be carried out where the ABSD is the only **Apparatus** on the pole and the work completed with the ABSD in the closed position.

Where an ABSD is a normally open point, **Switching** shall be undertaken by a suitably **Authorised Person** to alter the network and have the ABSD in the closed position before commencement of the procedure.


## 2. ISSUE RECORD

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Issue Date	Issue No	Author	Amendment Details
Dec 2005	1	Harry Stodart	Initial issue

## 3. ISSUE AUTHORITY

Author	Owner	Issue Authority
H Stodart Training Engineer	Jack Neilson Authorisation & Compliance Manager	Paul Brown Safety Quality & Risk Director 

## 4. REVIEW

This document is to be reviewed every five years or sooner if required due to Policy or Regulatory requirements.

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## 6. PROCEDURE

Carry out an examination of the ABSD and the earthing arrangement before commencing work.

Note:- The by-pass jumpers used in this procedure will be of the Rubber Gloving type rated to 185 Amps and having a working voltage of 15kV. In addition they will have a line hose fitted to them, this ensures that they have two layers of insulation in case of inadvertent contact with any steelwork.

- 6.1 Check that the ABSD mechanism is **Locked** in the closed position and that the **Authorised Person** in charge of the work ensures that this condition is maintained throughout the work.
- 6.2 Visually check to ensure that the steelwork earth wire is continuous and that the ABSD handle connections to the earth mat are complete. Test the steel work earth below the insulated insert for leakage with an **Approved** earth leakage detector prior to applying a short jumper with grip-all-clamp sticks bonding the two earth systems together.
- 6.3 Test the ABSD handle steel work above the insulated insert with an **Approved** earth leakage detector before applying a red band below the ABSD supporting steelwork and a minimum of 0.8m below the lowest conductor.
- 6.4 With two linesmen on the pole erect and connect the by-pass jumpers to either side of the switch using grip-all-clamp sticks.
- 6.5 Disconnect the operating bar from the handle by undoing the bolts at the insulated insert and at the handle.

Note:- Insulated insert shall be removed where safety clearances allow, where this cannot be achieved then Rubber Glove techniques shall be applied.

- 6.6 Install the new high level operating mechanism and connect to existing operating rod ensuring that the mechanism is in the closed position.
- 6.7 Connect a bond of 35mm<sup>2</sup> green and yellow earth from the new mechanism on to the existing steelwork earth with compression fittings. Once installed, remove all remaining earthing and steelwork from the pole including earth wire, earth mat and the out of use operating handle.
- 6.8 With all linesmen at ground level operate the ABSD to ensure correct operation and adjustment. When the operation is completed return the switch to the closed position.
- 6.9 Remove the by-pass jumpers, then remove the red band.
- 6.10 Following completion of the work ensure the correct ABSD category label is fixed to the pole.