



## 1. SCOPE

This document details the application of SOP 2007/0357/00 (Applicable to AEI GA6W4 Air Blast Circuit Breakers) issued by the Energy Networks Association.

## 2. ISSUE RECORD

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<b>Issue Date</b>	<b>Issue No</b>	<b>Author</b>	<b>Amendment Details</b>
Nov 2008	1	Alastair Ferguson	Initial Issue
Jan 2009	2	Alastair Ferguson	Remedial works update

## 3. ISSUE AUTHORITY

<b>Author</b>	<b>Owner</b>	<b>Issue Authority</b>
Alastair Ferguson Asset Risk Engineering Manager	Alastair Ferguson Asset Risk Engineering Manager	Jim Sutherland Chief Engineer  .....

#### 4. SOP DETAILS

<b>EQUIPMENT TYPE:</b>	AEI GA6W4 Air Blast Circuit Breaker
<b>ORIGINATING DNO</b>	SP Power Systems Ltd
<b>DATE:</b>	25 <sup>th</sup> November 2008
<b>NUMBER INSTALLED IN ENERGY NETWORKS NORTH:</b>	18
<b>NUMBER INSTALLED IN ENERGY NETWORKS SOUTH:</b>	25
<b>REASON:</b>	AEI GA6 ABCB [805] Isolator failed to open correctly at Rainhill 132kV substation. The middle (Y) phase moved during operation to a partially open position resulting in electrical arc activity and subsequent disconnection of sections of both the main & reserve busbars.
<b>STATUS IN INITIATING DNO:</b>	Non-essential outages associated with AEI GA6 Air Blast Circuit Breakers shall not be permitted until remedial maintenance work has been undertaken. This remedial work will include tightness checks on the friction disc clamp plate bolts. Where, for system security reasons, an outage is considered essential this shall only be undertaken with the agreement of the Operations Manager.
<b>SPEN APPLICATION:</b>	As above
<b>UPDATE:</b>	This SOP shall only be applied to GA6 ABCBs equipped with the “friction disc” isolator mechanism. <b>Units fitted with the “claw clamp” variant of the isolator are unaffected.</b> The SOP can be removed once the remedial work detailed below is complete.
<b>REMEDIAL ACTION:</b>	Remedial actions to remove SOP 357 are detailed in plant Service Bulletin SWG-19-087. The key requirements are the removal of the isolator head and the renewal of the friction disc and gaskets with approved replacements. Subsequently the friction disc plate bolts shall then be tightened to a specified torque setting.

Photograph #1.

