
1. SCOPE

This document details the application of SOP 2008/0350/00 (Applicable to Yorkshire IVIO/F 11KV Oil Circuit Breakers including IVIO13, IVIO13K, IVIO14, IVIF13, IVIF13K and IVIF14) issued by the Energy Networks Association.

2. ISSUE RECORD

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Issue Date	Issue No	Author	Amendment Details
March 2008	1	David Walker	
July 2008	2	Alan MacGregor	Inclusion of mechanism check prior to local manual Opening

3. ISSUE AUTHORITY

Author	Owner	Issue Authority
David Walker Senior Project Engineer	Alastair Ferguson Asset Risk Engineering Manager	Jim Sutherland Chief Engineer

4. SOP DETAILS

EQUIPMENT TYPE:	Yorkshire IVIO/F including IVIO, IVIO13, IVIO13K, IVIO14, IVIF, IVIF13, IVIF13K and IVIF14
ORIGINATING DNO	SP Power Systems Ltd
DATE:	17 July 2008
NUMBER INSTALLED IN ENERGY NETWORKS NORTH:	623
NUMBER INSTALLED IN ENERGY NETWORKS SOUTH:	
REASON:	Following the recent failure of an IVIF13 OCB, investigations have revealed that the cause was due to the breaker not being completely closed. This meant that the load current was being carried by the arcing contacts. This led to excessive erosion of the contacts, carbonisation of the oil and a build up of explosive gases.
STATUS IN INITIATING DNO:	<div>a) Following the closure of any IVIO/F Circuit Breaker, the mechanism shall be visually inspected to ensure that the “Hold-in catches” have latched the mechanism in the OCB closed or ON position.</div> <div>b) Prior to the local manual opening of any IVIO/F Circuit Breaker, the mechanism shall be visually inspected to ensure that the “Hold-in catches” are latching the mechanism fully in the OCB closed or ON position.</div>
SPEN APPLICATION:	All IVIO/F Circuit Breaker mechanisms will be subject to an enhanced maintenance regime.
UPDATE:	SOP applied by SPEN N/A
REMEDIAL ACTION:	Enhanced maintenance regime to be implemented. This will be detailed in a new additional requirement check sheet which will be added to the PSPMM.