

## 1. SCOPE

This document details the application of SOP 310 issued by the Energy Networks Association, and updated by PowerSystems.

## 2. ISSUE RECORD

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<b>Issue Date</b>	<b>Issue No</b>	<b>Author</b>	<b>Amendment Details</b>
January 2004	1	D.W. Naylor	Initial issue 2 page document
September 2005	2	G N Wood	Updated to restrict use of oil switch as point of isolation and primary earth. 3 page document.

## 3. ISSUE AUTHORITY

<b>Author</b>	<b>Owner</b>	<b>Issue Authority</b>
David Naylor Senior Project Engineer	Alastair Ferguson Section Head Engineering Support	Alastair Ferguson Section Head Engineering Support
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#### **4. SOP DETAILS**

**TYPE :** Switchgear & Cowans  
6kV, 6.6kV and 11kV ring main units type RA50, RAO50,  
RA71 and RAO71.

**ORIGINATING DNO :** EDF Energy

**DATE :** 19 January 2004

**NO. INSTALLED IN POWER SYSTEMS NORTH:** 0

**NO. INSTALLED IN POWER SYSTEMS SOUTH:** 1201 (all of type RA50)

**STATUS:** Ban on live operation of the oil switches or earth switches on  
S&C RA50 ring main units with the busbars or the  
associated feeder live.

On completion of any switching operation on these RMU  
switches, the re-energisation shall be carried out from a  
remote location after ensuring that no one is in the vicinity of  
the RA50 being re-energised.

This SOP does not affect operation of the associated RMU  
OCB.

**SPPS UPDATE:** Restriction on the use of a single open RA50 oil switch as a  
point of isolation. A second network open point, in addition  
to an open RA50 oil switch is required to effect a point of  
isolation. The second open point may also be an RA50 oil  
switch.

Restriction on the use of an RA50 oil switch as a primary  
earth. From the date of the update to this SOP a log of RA50  
oil switch operations shall be kept. A maximum of 50 switch  
operations\* is allowed. More operations than this will result  
in a ban on the use of the RA50 oil switch as a primary earth.

\*Oil switch operations of any indexed status change (i.e. on-  
off=1, off-earth=1, earth-off=1, off-on=1)

- REASON:** Broken RA71 ring switch drive linkage caused yellow phase contact to fall to the EARTH position as the oil switch was being operated from ON to OFF. The mechanisms and drive linkages are considered similar across the above range of unit types.
- UPDATE:** SOP updated 30th September 2005 to restrict the use of an RA50 oil switch as a point of isolation and primary earth, as detailed above.
- REMEDIAL ACTION:** Following investigations by PowerSystems and EDF Energy, this SOP will remain in place until the removal of S&C RA50 ring main units from the network.