

## 1. SCOPE

This document details the application of SOP 300 issued by the Electricity Association.

## 2. ISSUE RECORD

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Issue Date	Issue No	Author	Amendment Details
March 2003	1	D.W. Naylor	Initial issue 2 page document

## 3. ISSUE AUTHORITY

Author	Owner	Issue Authority
David Naylor Senior Project Engineer	Alastair Ferguson Section Head Engineering Support	Alastair Ferguson Section Head Engineering Support .....

#### **4. SOP DETAILS**

**TYPE :** Yorkshire Switchgear type YSF6 11kV and 22kV circuit breakers

**ORIGINATING DNO :** Amey  
(operators of part of the Network Rail distribution system)

**DATE :** 7 February 2003

**NO. INSTALLED IN POWER SYSTEMS NORTH:** 159  
**NO. INSTALLED IN POWER SYSTEMS SOUTH:** 0

**STATUS :** No restriction to access or operation within PowerSystems.

**REASON:** This SOP relates to loss of SF<sub>6</sub> gas pressure due to deterioration of a flexible Nitrile rubber hose connecting the main circuit breaker tank to the gas filling valve. Deterioration has been noted in a very small number of YSF6 units.

YSF6 units in PowerSystems have a low gas pressure alarm switch that will indicate a possible instance of hose deterioration. All YSF6 units have a low gas pressure lockout switch that will fail-safe by locking-out the circuit breaker in case of loss of gas pressure.

Furthermore, tests have proved that the YSF6 breaker, with SF<sub>6</sub> at atmospheric pressure, will safely interrupt a fault current of 12.5kA.

This has led to the decision not to impose any restriction under this SOP.

**UPDATE:**

**REMEDIAL ACTION:**