



1 SCOPE

This document details the application of SOP 167 issued by the Electricity Association.

2 ISSUE RECORD

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Issue Date	Issue No	Author	Amendment Details
October 2000	1	Esther Stewart	Initial Issue in New Format: 2 Page Document

3 ISSUE AUTHORITY

Author	Owner	Issue Authority
Esther Stewart	Roger Bracey	Roger Bracey Group Head, Standards



4 SOP DETAILS

TYPE: Brush Falcon Beta Ring Main Unit

ORIGINATING REC: SEEBOARD

DATE: 06/07/96

NO. INSTALLED IN MANWEB: 0

NO. INSTALLED IN SCOTLAND:

STATUS: None in MANWEB

REASON:

During commissioning of a new falcon beta rmu operation of one of the ring switches from ON to OFF caused the operation of the source cb. Subsequent investigation revealed the problem to be caused by a fractured weld on the operating drive shaft. This allowed the yellow phase switch blade to be driven into the circuit earth position.

UPDATE: 17/9/96 Following investigations by the manufacturer the following conclusions were reached:

- (1) Although the unit concerned was only recently installed on the system it had been manufactured in Feb. 1994.
- (2) This was the first in service failure of this component out of approximately 1500 units produced since 1992, three other failures have been discovered during the manufacturing process. This amounts to a failure rate of 4 welds in 3000 shafts. (0.00133%)
- (3) The failure of the weld was considered to be due to the quality and standard of the workmanship. Hawker Siddeley have significantly revised their quality assurance procedures since the faulty unit was manufactured.
- (4) A large proportion of Falcon Beta units have been subject to a significant number of operations to check for failure of the Permali drive link (SOP !57) these have not revealed any other weld failure.

FROM TODAY'S DATE THE OPERATIONAL RESTRICTION NOTIFIED TO YOU UNDER SOP 167 IS WITHDRAWN.

REMEDIAL ACTION: