

Guidance Document

G1163

Stations DLO - Failure Reporting Analysis & Corrective Action System (FRACAS)

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1 Purpose

- 1.1 The purpose of this Guidance is to describe the Failure Reporting Analysis & Corrective Action System (FRACAS). This process is a disciplined closed loop failure reporting, analysis and corrective action system. The FRACAS process is a useful tool in the achievement of Asset reliability and safety. A FRACAS is used to record all failures and problems related to an Asset or process and their associated root causes and failure analyses in order to assist in identifying and implementing corrective actions.

A closed loop system should include,

- Assurance that root cause of each failure is found and clearly defined
- Provisions to assure that effective corrective action are taken in timely basis
- Follow up review for all open failure analysis and corrective action
- Reporting all delinquencies to management

The integral part of a successful FRACAS process is the Failure Review Board (FRB), which is responsible for initiating and reviewing the corrective action to ensure reliability, efficiency and safety improvement

The purpose of this guidance is to guide the reader through the method of Failure Reporting, Analysis and Corrective Action System (FRACAS) within Stations Department London Underground.

2 Scope

- 2.1 This Guidance applies to Failure Reporting, Analysis and Corrective Action System (FRACAS) within Stations Department London Underground.

3 Description of activities

3.1 Process Objective

- 3.1.1 FRACAS, is used to collect, record and analyse system failures and faults. These failures and faults are reviewed and corrective actions identified, verified and implemented.
- 3.1.2 This process is used to improve asset in-service performance and to ensure that both faults and failures are monitored and non-conformances are correctly documented.
- 3.1.3 Therefore an efficient FRACAS system is essential, to promote continuous improvement in:
- Asset condition, reliability and performance
 - Health, Safety and Environmental management.

3.2 FRACAS Process

- 3.2.1 The FRACAS process has five main components:
- Daily Failure Meeting.
 - Failure Analysis.
 - FRACAS Meeting.
 - Corrective Action (Practical Problem Solving (PPS) Engineering Change Requests (ECR's)).

NOTE: PPS may be used for larger problems to provide a systematic understanding of failure, and development of design change with ECR. Implementation is included in the Reliability Growth Plan (RGP) to improve asset performance.

- Failure Closure & Quality Audit.

3.3 FRACAS Process Flow Chart

