



Database solutions to RAMS Management and Activities



SAbRE

SYSTEMS ASSURANCE BY IN SERVICE RELIABILITY EVALUATION

The SAbRE database is at the core of Transsol's generic set of RAMS technology software tools. Developed to enable in-service reliability data to be collated and analysed and calculations automatically performed on monitored systems and equipment to determine the in-service MTBF and availability, it has been successfully deployed on the Athens Metro lines 2 and 3 extension project.

The product provides a unique solution to in-service reliability demonstration testing (RDT) and reliability performance monitoring (RPM). It is a highly effective means of obtaining and recording reliability performance data in a consistent and predictable manner for subsequent analyses. This is achieved through rigorous and logical coding of systems, equipment, installations and failure modes together with the power of the SAbRE database for RDT/RPM data storage and subsequent analyses.

The database, associated procedures/instructions and test plans remove the need for any subjective judgment to be made by personnel associated with in-service reliability data collation and processing so that the information gathered is consistent and accurate and has real value.

The generic product is easily tailored to specific equipment, systems and applications. It enables effective management and analysis of the data recorded during RDT/RPM so that compliance with contractual requirements or safety targets can be demonstrated. The database performs all numeric calculations of in-service reliability performance of systems and equipment as well as automatic production of performance reports.

In addition to this it enables ownership costs to be clearly established and subsequently reduced by optimising maintenance activities.

In summary it provides invaluable information in a coherent and intuitive manner that can be used to reduce costs and improve performance.



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