

Safety & Suitability Technologies Evaluation of In-Service Environments

Overview

Scientists have understood for many years that undesirable vibration or shock environments can lead to catastrophic failure mechanisms. The effects on people are equally of concern, particularly in the light of litigation actions in the courts. Whilst a great deal of SST's work is assisting the design process to alleviate problems, SST are also engaged in troubleshooting and accident investigations where shock or vibration are thought a potential cause.

Evaluation of In-Service Environments



SST can conduct trials specifically to determine the environments likely to be met by the end-user application.

Based on measured data, environment descriptions for equipment and/or personnel can be formulated in order to determine areas of concern.

When undesirable effects are identified, such information can form the basis of further analysis and modelling which can lead to recommendations through to full solutions.

In some cases, incident reports can be studied and using existing databases, predictions of most likely causes assessed as part of a risk register. The need for subsequent trials or additional modelling can be appraised as part of the exercise.



Independent Appraisal

SST are used to operating under strict confidentiality agreements and for secure Defence Contracts are categorised as LIST X. We are impartial and independent, offering a range of safety and suitability for service

assessments, backed up by a well qualified team of professional engineers and trials technicians. Cranfield Aerospace Ltd., is wholly owned by Cranfield University and we have additional access to a wide range of Departments both on the Cranfield Campus and at Shrivenham.

Expertise

Professional Engineer Staff are mostly Graduate, Masters or PhD qualified and have many cumulative years of experience in Shock and Vibration. These are supported by a number of qualified technical staff again with considerable practical trials and instrumentation experience.

For more information, please contact:

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