

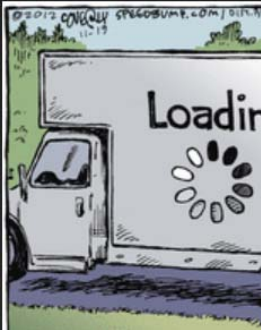
August 2018



Reliability Newsletter

We are moving

Please note the new



Reliability Engineering Services

g to Sonoita AZ!

y mailing address:





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We focus a lot of our time on predicting reliability which are great preventive feedback to these processes

Time to failure based field data analysis

Warranty claims and field failure data contain reliability. Analyzing this data can be of benefit warnings of abnormalities in their products, provide modes to aid design improvement, estimating policy, and forecasting future warranty claims

Because field failure data includes the influence more informative than testing data collected from reliability based on warranty data can provide information than laboratory testing. When estimating claims data, however, we need to comprehend very different, for example, output-based (mileage) time-based (fraction of the time used – fans, and (used continuously but different stress levels –

**g reliability and designing lab tests for
tools but, we must remember the best
is analysis of field failure data**

S

useful information about product quality and
it to manufacturers in identifying early
providing useful information about failure
product reliability for deciding on warranty
needed for financial plans.

ce of environment and usage rate, they are
from laboratories. As such, estimating product
manufacturers with more valuable
estimating product reliability from warranty
that different types of products, usage can be
es for cars, copies made for photocopier, etc.),
air-conditioners, heaters, etc.), stress level
- air conditioners on hot or very hot days).

When evaluating field failure data key items to consider are the failure mode, failure location, failure time, failure cycle, miles etc. for usage information. Any available information on the failure mode and the results of failure analysis is also key to understanding the failure. This information is gathered along with the shipment quantities and used to perform a failure mode analysis can be performed. The value of this analysis is the ability to determine the distribution. The distributions value is the ability to

to collect in the database is the time, duty
available information about the environment
to identifying trends in the data. Once this data
by vintage then a time (or other unit) based
analysis is to better model the failure
ity to predict how failures will proceed in the

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