Analysis of OREDA Data for Maintenance Optimisation

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Safety and Reliability

ABSTRACT

This paper provides estimates for the average Rate of Occurrence of Failures, ROCOF ("failure rate"), for *critical* failures when also *degraded* failures are present. The estimation approach is exemplified with a data set from the offshore equipment reliability database "OREDA". The suggested modelling provides means to predict how maintenance tasks will affect the rate of critical failures.

1. INTRODUCTION

OREDA (Offshore REliability Data) "is a data collection programme that has been going on since the early eighties. Reliability data has been collected for some 24,000 offshore equipment units comprising approximately 33,000 failures. The project is supported by ten oil companies; AGIP, BP, Elf, Esso, Norsk Hydro, SAGA, Shell, Statoil, and Total. SINTEF has been the main contractor since 1990.

The project is now in its fourth phase ('96). In this phase data is collected by more automatic means, and the data collection specification, and the data collection and analysis software program have been revised in this phase.

The participating oil companies use the data in the development of new oil fields and improving existing facility operation. The reliability data are typically used as input to safety and reliability analysis. Some benefits are: safer operations, increased production availability, and optimised maintenance. Analysis of reliability data is one of several key factors in choosing cost-effective solutions. Two examples recently reported, have shown that savings of about $60 millions can be achieved compared with the cost of the original design. Lately experiences and data from this project are also exchanged with the manufacturers in order for them to improve future designs.

Typical analyses where the data have been applied are: QRA, RAM, RCM, LCC and various maintenance planning assessments. A project on using the data in more advanced reliability analysis has also been undertaken by SINTEF.

The present paper describes a model where OREDA failure event data has been used to predict how maintenance tasks will affect the rate of critical failures, and it is argued that a *model* for the failure mechanisms should be provided. There are two obvious types of such mechanisms:

➢ the failure occurs immediately (as a "shock"), directly giving a *critical* failure
➢ the failure is caused by deterioration, so that the item first experiences a *degraded* failure, until finally an essential function is lost and the item is defined to have a *critical* failure.

This modelling of failure mechanisms to utilise the information on the *severity classes* (usually denoted *degraded*/non-critical and *critical*) is the topic of "and ". These papers, however, focus on *dormant* failures, i.e. failures detected by periodic (functional) testing, only. The present paper considers *all* failure modes and general principles of failure detection.

OREDA failure data on gas turbines are utilised giving estimates for critical failure rates as a function of the preventive maintenance interval τ, and the critical failure rate given that no preventive maintenance is performed (as $\tau \to \infty$, this is denoted "the naked failure rate").

Analysis Of Oreda Data For Maintenance Optimisation

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Analysis Of Oreda Data For Maintenance Optimisation:

Safety and Reliability. Theory and Applications Marko Cepin,Radim Bris,2017-06-14 Safety and Reliability Theory and Applications contains the contributions presented at the 27th European Safety and Reliability Conference ESREL 2017 Portoro Slovenia June 18 22 2017 The book covers a wide range of topics including Accident and Incident modelling Economic Analysis in Risk Management Foundational Issues in Risk Assessment and Management Human Factors and Human Reliability Maintenance Modeling and Applications Mathematical Methods in Reliability and Safety Prognostics and System Health Management Resilience Engineering Risk Assessment Risk Management Simulation for Safety and Reliability Analysis Structural Reliability System Reliability and Uncertainty Analysis Selected special sessions include contributions on the Marie Sk odowska Curie innovative training network in structural safety risk approaches in insurance and fi nance sectors dynamic reliability and probabilistic safety assessment Bayesian and statistical methods reliability data and testing oganizational factors and safety culture software reliability and safety probabilistic methods applied to power systems socio technical economic systems advanced safety assessment methodologies extended Probabilistic Safety Assessment reliability availability maintainability and safety in railways theory big data risk analysis and management and model based reliability and safety engineering Safety and Reliability Theory and Applications will be of interest to professionals and academics working in a wide range of industrial and governmental sectors including Aeronautics and Aerospace Automotive Engineering Civil Engineering Electrical and Electronic Engineering Energy Production and Distribution Environmental Engineering Information Technology and Telecommunications Critical Infrastructures Insurance and Finance Manufacturing Marine Industry Mechanical Engineering Natural Hazards Nuclear Engineering Offshore Oil and Gas Security and Protection Transportation and Policy Making   **Quality, Reliability and Information Technology** P. K. Kapur,A. K. Verma,2005 Reliability Engineering and Quality Management provides a competitive advantage and market leadership in a global environment where market barriers are fast disappearing both in the domain of cutting edge and contemporary technologies manufacturing process and service sectors like information technology sector The growth of Q R has been fuelled by increasing sophistication and complexity of system and organisational awareness to produce and market high quality and reliability products and services by the consumer and global market pressures This subject being interdisciplinary in nature has also brought about a convergence of numerous solution strategies employing Fuzzy Sets Artificial Neural Nets Modeling and Simulation Knowledge Base Systems Operations Research and Mathematical Programming to achieve high Reliability This book is intended for both the beginner and practitioner from manufacturing and service sector research laboratories and academic institutions This book is unique also as it gives an insight into the current practices and future directions

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analysis can bring New statistical and decision models can be tailored to the unique beliefs values and needs of the user and the implications of the data she collects can be analysed with reference to this underlying structure The second purpose is to provide an analyst wanting to apply the Bayesian methodology with a resource of examples and techniques so that she may be better informed about the scope of opportunities and the pitfalls inherent in such an analysis   **OMC 99, Offshore Mediterranean Conference** ,1999   **Proceedings - Offshore Technology Conference** ,2001   **Petroleum Abstracts** ,1991   InTech ,2001   *Offshore Safety* Institute of Marine Engineers,1992   **OREDA Data Analysis Guidelines** Jørn Vatn,Selskapet for industriell og Teknisk Forskning , Norges Tekniske Hogskole,1997   **Applications of Maintenance Optimisation Models** R. Dekker,1992   Down Time Terms and Information Used for Assessment of Equipment Reliability and Maintenance Performance Jon T. Selvik,2017 Reliability and maintenance data is important for predictive analysis related to equipment downtime in the oil and gas industry For example downtime data together with equipment reliability data is vital for improving system designs for optimizing maintenance and in estimating the potential for hazardous events that could harm both people and the environment The quality is largely influenced by the repair time taxonomy such as the measures used to define downtime linked to equipment failures However although it is important to achieve high quality from maintenance operations as part of this picture these often seem to receive less focus compared to reliability aspects Literature and experiences from e g the OREDA project suggest several challenging issues which we discuss in this chapter e g for the interpretation of MTTR Another challenge relates to the duration of maintenance activities For example while performing corrective maintenance on an item one could also be working on several other items while being on site This provides an opening for different ways of recording the mobilization time and repair time which may then influence the data used for predictive analysis Some relevant examples are included to illustrate some of the challenges posed and some remedial actions are proposed

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