Acoustic Emission Testing Of Fibregl Insulated Booms On Elevating Work Platforms

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Alabama Power Company started AE Testing in 1983, after suffering a catastrophic failure of a fiberglass boom. As with most new technology we felt some skepticism but were soon sold on this new method of listening inside the fiberglass components This paper will give the details of our testing program as it started and discuss the changes that have taken place over the past seven years. It will include statistics concerning the number of failures and the percentage of the fleet that failed (9% 1983, less than 1% 1990). The paper will discuss the improvement in the mechanics condition of our fleet as a direct result of the AE Testing Program as we see it. Included in the paper will be at least two case histories of booms that failed the AE Test and the final solution. It will also cover what we feel is the actual value of our AE Testing Program as it has not only given us a safer fleet but has also reduced our maintenance costs by detecting problems while they are in the early stages, allowing us to make minor repairs rather than finding the defects after they have developed into a major repair. Today we require that all new equipment pass an acoustic emission test prior to acceptance by us. By the use of acoustic emission testing we have been able to improve our preventive maintenance program with the focus on areas of concern. We know and understand more about the unique characteristics of fiberglass and steel components through the use of AE Testing.

In some cases, acoustic emission testing is a convenient way of checking a vessel for invisible structural faults; in other cases the method is inappropriate for various reasons. This book sets out to help in deciding whether acoustic emission testing is the right method for a particular problem.

Sixteen papers originally presented at the symposium of the same name held on January 22-23, 1998 explore the use of acoustic emission (AE) for the location and evaluation of materials strengths and faults in a variety of industrial applications. Specific topics include the characterization of focal

"Written by engineers for engineers (with over 150 International Editorial Advisory Board members),this highly lauded resource provides up-to-the-minute information on the chemical processes, methods, practices, products, and standards in the chemical, and related, industries. "

This book is intended for non-destructive testing (NDT) technicians who want to learn practical acoustic emission testing based on level 1 of ISO 9712 (Non-destructive testing – Qualification and certification of personnel) criteria. The essential aspects of ISO/DIS 18436-6 (Condition monitoring and diagnostics of machines – Requirements for training and certification

of personnel, Part 6: Acoustic Emission) are explained, and readers can deepen their understanding with the help of practice exercises. This work presents the guiding principles of acoustic emission measurement, signal processing, algorithms for source location, measurement devices, applicability of testing methods, and measurement cases to support not only researchers in this field but also and especially NDT technicians.