

# **Environmental Stress Screening**

**United States. Department of Defense** 

#### **Environmental Stress Screening:**

Environmental Stress Screening Dimitri Kececioglu, Feng-bin Sun, 2003 Environmental stress screening ESS has become one of the primary approaches in the modern electronic industry to precipitate and eliminate latent or hidden defects in electronic products which are introduced mainly during the manufacturing assembling and packaging processes Temperature cycling plus random vibration shaking and baking are the primary processes of ESS This text presents coverage of the subject from basic concepts and the historical evolution of ESS to the statistical and physical quantification of ESS

Environmental Stress Screening (ESS). C. C. Reader, NAVAL OCEAN SYSTEMS CENTER SAN DIEGO CA., 1985 ESS is a technique of testing used for minimizing eliminating hardware production line workmanship errors. The application of vibration and temperature environments to items requiring screening can minimize eliminate such errors as loose wires or parts cold solder joints loose screws or nuts plus other assembly or fabrication type deficiencies ESS is applied at all stages of fabrication or assembly The Naval Sea Systems requested that the commercial equipment used on the Precise Integrated Navigation System PINS be surveyed for compliance with NAVSEANOTE 3900 and NAVMAT P 9492 This investigation sought to determine the extent to which the PINS commercial equipment manufacturers apply ESS to their equipment during the manufacturing process and to compare commercial practices with Navy requirements in order to discover and document the differences This report concludes that the limited investigation conducted does not provide a definitive basis for decision Several alternatives for screening programs are discussed <u>Environmental Stress Screening. Revision A.</u> A. E. Saari, S. J. VanDenBerg, J. E. Angus, HUGHES AIRCRAFT CO FULLERTON CA., 1986 Environmental Stress Screening is now being employed throughout the defense industry as a means of precipitating latent part and workmanship defects prior to fielding with the expectation that improved field reliability and reduced support costs will result The objective of this study was to develop a quantitative technique for planning monitoring and controlling the cost effectiveness of stress screening programs for electronic equipment and to prepare a draft military standard based on the developed technique Latent defects are introduced in equipment through defective parts and deficiencies in the manufacturing assembly process Design related defects though not insignificant are not considered in the techniques developed Stress screens act on part and workmanship defects with resulting fallout but since screens are less than 100% effective some defects escape in fielded equipment A method for estimating the number of defects initially present was developed and is described later. The effectiveness of stress screens is measured by test strength determined from screening strength equations developed in a previous study and updated in this study based on acutal screening results and test detection efficiency. The question of what is a reasonable number of defects to escape is addressed based on equipment complexity and a tradeoff of stress screening cost and resulting field reliability **Environmental Stress Screening** C. E. Mandel, B. R. Livesay, 1985 **Environmental Stress** Screening (ESS) by Thermal Cycling and Random Vibration: a Physical Investigation (PHD). Feng-Bin 1963

Sun,1997 **Environmental Stress Screening: Facts and Myths** Ivring Quart, 1989 Environmental Stress Screening Environmental Stress Screening Irving Quart, Tustin Technical Institute, 1989 Guidelines .1981 Military Standard Environmental Stress Screening Process for Electronic Equipment United States. Department of Defense, 1985 Environmental Stress Screening Handbook Mr Hilaire Ananda Perera P Eng, 2017-09-22 Environmental Stress Screening ESS is a process which involves the application of one or more specific types of environmental stresses for the purpose of precipitating to failure any latent intermittent or incipient defects or flaws which would cause product failure in the use environment The stress may be applied in combination or in sequence on an accelerated basis but within product design limits ESS detects manufacturing problems caused by poor workmanship or by faulty and or marginal parts It also identifies design problems if the design is inherently marginal and if qualification and engineering tests were too benign ESS is based on the adjustment of stress screens in response to previously observed screening results to minimize Outgoing Defects Stress screening is a closed loop process and relies upon information from monitoring to improve processes and screens that is it is an iterative process Only through this can Adaptive ESS be effective in terms of latent defect removal and hence be cost effective Stress screening should be monitored to a depth which ensures that all failure modes cause an item failure indication In this connection continuous monitoring of items during the screen should be undertaken where possible since certain failures may only appear under stress and not at ambient conditions With no firm failure mechanism mode information Random Vibration followed by Thermal Cycling with few Power On Off cycles is a good default condition Environmental Stress Screening Screening should not stress the equipment such that fatigue failures are precipitated Handbook John J. Quinn, 2004 Why read this book on Environmental Stress Screening If you are working in the electronic manufacturing industry and you have heard the guestions Why did it fail in the field and not in the factory The answer to this question is there was not a proper ESS program developed for this product A good ESS program is develop from the ground up and the fallout data is tracked The fallout data is used to alter the present ESS program This new altered program is tailored to the hardware and usually is less costly and should improve the product reliability Why can t we use the same ESS program as the other guy The answer to this is you can if you are manufacturing the exact same product If this is the case you must be working with the other guy A different product requires a different ESS program Or If you are working in the electronic manufacturing industry and you have heard the statements I won t do ESS it s going to cost too much Can you put a price on field returns or lost contracts because of poor quality I don t need to ESS I ll just be more careful during manufacturing You can be as careful as you want If you don't weed out the Latent defects the time bomb is ticking Or worst case condition If you are working in the electronic manufacturing industry and you have heard the front door being locked for the last time because of poor Quality hardware being shipped to the customer Unfortunately if this happens it is too late to do anything Hopefully you will develop a strong ESS program that is cost effective apply dynamic management of the ESS

program by analyzing the fallout data and last but not least use common sense Environmental Stress Screening Handbook Patrick C. Larter, 1988 Environmental Stress Screening C. E. Mandel, 1990 **Environmental Stress** Screening Guidelines, 1993 Our urgent requirements to improve the operational performance of weapon systems while reducing their operating and support costs can be met only by improving their quality and reliability Environmental stress screening ESS has been shown to be a significant aid towards meeting these objectives This document is the culmination of work that began in the mid 1980s when industry with Government encouragement initiated the revision and improvement of existing Government ESS guidelines Environmental Stress Screening (ESS) Guide William H. Horner, ARMY BELVOIR RESEARCH DEVELOPMENT AND ENGINEERING CENTER FORT BELVOIR VA., 1989 The increasing complexity of mechanical equipment and miniaturization of electronic equipment has made traditional methods of defect detection less efficient One of the most effective techniques used to identify and eliminate these defects is ESS ESS is the process of applying environmental stresses in conjunction with functional testing in order to stimulate the failure mechanisms of defects to the point of detection Most of these defects are caused by flawed parts and poor assembly workmanship The stress levels of applied stimuli must be as harsh as possible to precipitate the defects without causing damage to or reducing the useful life of properly manufactured hardware Application of environmental stresses will accelerate the latent or undetected defects to become patent detected with functional testing required to detect failures Functional testing can be performed either during or after the application of stress The advantage of functional testing during stress application is that it allows the detection of intermittent failures. This guide provides a step by step approach to the planning implementing and monitoring of an ESS program for Army Materiel Command Troop Support Command TROSCOM hardware contracts and repair activities This guide does not replace logical thinking on the part of the user but presents the various elements of an ESS Program and advise the user in their selection and use Keywords Thermal cycling Quality assurance Random vibration EDC

Defect-Induced Failure Mechanisms Accelerated by Environmental Stress Screening C E Mandel, Billy R.

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