

POTENTIAL FAILURE MODE AND EFFECTS ANALYSIS

FMEA Number 1450

FMEA Type _____

Front Door L.H.

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Item 1.1.1 - Front Door L.H.

Process Responsibility Body Engineering

Prepared By J. Ford - X8521 - Assy Cpl

Model Year(s)/Vehicle(s) 2005/Lion 4dr/Wagon

Key Date 3/10/2015

FMEA Date (Orig.) 3/10/2015 (Rev) 3/21/2015

Core Team A. Tate Body Engrg, J. Smith - QC, R. James - Production, J. Jones - Maintenance

Name / Function Requirements	Potential Failure Mode	Potential Effect(s) of Failure	S/N	Classification	Potential Cause(s) of Failure	OCC	Current Process Controls (Prevention)	Current Process Controls (Detection)	S/N	Worst	Recommended Action(s)	Responsibility & Planned Completion Date	Action Results				
													Actions Taken & Actual Completion Date	S/N	OCC	S/N	Worst
2.1.1 - Front Door L.H.																	
Cp. 70 Manual application of wax inside door/ cover inner door, lower surfaces with wax to specification thickness.	Insufficient wax coverage over specified surface	Affects integrity (breach of inner door panel, Corroded interior lower door panels, Deteriorated life of door leading to: - Unsatisfactory appearance due to rust through paint over time - Impaired function of interior door hardware	7		Manually inserted spray head not inserted far enough	8		Visual check each hour - 1 shift for film thickness (depth meter) and coverage.	1	200	Add positive depth stop to sprayer.	Mfg Engrg - 3/10/2003	Stop added, sprayer checked on line.	7	2	1	20
									Automate spraying.	Mfg Engrg - 3/10/2003	Rejected due to complexity of different doors on same line.						
					Spray head clogged/ viscosity too high Temperature too low- Pressure too low.	5	Test spray pattern at start-up and after idle periods, and preventive maintenance program to clean heads.	Visual check each hour - 1 shift for film thickness (depth meter) and coverage.	5	170	Use Design of Experiments (DOE) on viscosity vs. temperature vs. pressure.	Mfg Engrg - 3/10/2003	Temp and press limits were determined and limit controls have been installed - control charts show process is in control Cpk = 1.05.		1	5	20
	Spray head deformed due to impact					2	Preventive maintenance program to maintain heads.	Visual check each hour - 1 shift for film thickness (depth meter) and coverage.	5	70					2	5	70

Aiag Fmea 4th Edition

Jay Arthur



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The ASQ Pocket Guide to Failure Mode and Effect Analysis (FMEA) D.H. Stamatis, 2014-08-21 The recognition that all well managed companies are interested in preventing or at least minimizing risk in their operations is the concept of risk management analysis This pocket guide explores the process of evaluation of risk by utilizing one of the core methodologies available the failure mode and effect analysis FMEA The intent in this Pocket FMEA is to provide the reader with a booklet that makes the FMEA concept easy to understand and provide some guidelines as to why FMEA is used in so many industries with positive results The booklet is not a complete reference on FMEA but rather a summary guide for anyone who wants some fast information regarding failures and how to deal with them It covers risk reliability and FMEA prerequisites of FMEA what an FMEA is robustness the FMEA form and rankings types of FMEA and much more 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 Skłodowska Curie innovative training network in structural safety risk approaches in insurance and finance sectors dynamic reliability and probabilistic safety assessment Bayesian and statistical methods reliability data and testing organizational 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 **Advanced Product Quality Planning** D. H. Stamatis, 2018-11-12 This book defines develops and examines the foundations of the APQP Advanced Product Quality Planning methodology It explains in detail the five phases and it relates its significance to national international and customer specific standards It also includes additional information on the PPAP Production Part Approval Process Risk Warranty GD T Geometric Dimensioning and Tolerancing

and the role of leadership as they apply to the continual improvement process of any organization Features Defines and explains the five stages of APQP in detail Identifies and zeroes in on the critical steps of the APQP methodology Covers the issue of risk as it is defined in the ISO 9001 IATF 16949 the pending VDA and the OEM requirements Presents the role of leadership and management in the APQP methodology Summarizes all of the change requirements of the IATF standard

Effective FMEAs Carl S. Carlson, 2012-04-11 Outlines the correct procedures for doing FMEAs and how to successfully apply them in design development manufacturing and service applications There are a myriad of quality and reliability tools available to corporations worldwide but the one that shows up consistently in company after company is Failure Mode and Effects Analysis FMEA Effective FMEAs takes the best practices from hundreds of companies and thousands of FMEA applications and presents streamlined procedures for veteran FMEA practitioners novices and everyone in between Written from an applications viewpoint with many examples detailed case studies study problems and tips included the book covers the most common types of FMEAs including System FMEAs Design FMEAs Process FMEAs Maintenance FMEAs Software FMEAs and others It also presents chapters on Fault Tree Analysis Design Review Based on Failure Mode DRBFM Reliability Centered Maintenance RCM Hazard Analysis and FMECA which adds criticality analysis to FMEA With extensive study problems and a companion Solutions Manual this book is an ideal resource for academic curricula as well as for applications in industry In addition Effective FMEAs covers The basics of FMEAs and risk assessment How to apply key factors for effective FMEAs and prevent the most common errors What is needed to provide excellent FMEA facilitation Implementing a best practice FMEA process Everyone wants to support the accomplishment of safe and trouble free products and processes while generating happy and loyal customers This book will show readers how to use FMEA to anticipate and prevent problems reduce costs shorten product development times and achieve safe and highly reliable products and processes

Managing Supply Chain Risk Sime Curkovic, Thomas Scannell, Bret Wagner, 2015-06-24 Risk management in supply chain logistics has moved from being a nice to have to a necessity due to the number of variables that can cripple a business Managing Supply Chain Risk Integrating with Risk Management details the critical factors involved in managing supply chain risk It discusses how managing supply chain risk can be integrated into Total Quality Management Mr. Rohit

Manglik, 2024-07-28 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels **A**

First Course in Quality Engineering K.S. Krishnamoorthi, V. Ram Krishnamoorthi, 2018-09-03 This book is the leader among the new generation of text books on quality that follow the systems approach to creating quality in products and services the earlier generations focused solely on parts of the system such as statistical methods process control and management philosophy It follows the premise that the body of knowledge and tools documented by quality professionals and

researchers when employed in designing creating and delivering the product will lead to product quality customer satisfaction and reduced waste The tools employed at the different stages of the product creation cycle are covered in this book using real world examples along with their theoretical bases strengths and weaknesses This textbook can be used for training from shop floor personnel to college majors in business and engineering to practicing professionals Graduate students training as researchers in the quality field will also find useful material The book has been used as the text for a Professional Series Massive Open Online Course offered by the Technical University of Munich on edX org through which tens of thousands of participants from all over the world have received training in quality methods According to Professor Dr Holly Ott who chose the book for the course the text is one of the main factors contributing to success of this MOOC The Third Edition has been fully revised to be friendly for self study reflects changes in the standards referenced such as ISO 9000 and includes new examples of application of statistical tools in health care industry Features Reviews the history of quality movement in the U S and abroad Discusses Quality Cost analysis and quality s impact on a company s bottom line Explains finding customer needs and designing the product using House of Quality Covers selection of product parameters using DOE and reliability principles Includes control charts to control processes to make the product right the first time Describes use of capability indices Cp and Cpk to meet customer needs Presents problem solving methodology and tools for continuous improvement Offers ISO 9000 Baldrige and Six Sigma as templates for creating a quality system

A First Course in Quality Engineering, 2011-08-29 Completely revised and updated A First Course in Quality Engineering Integrating Statistical and Management Methods of Quality Second Edition contains virtually all the information an engineer needs to function as a quality engineer The authors not only break things down very simply but also give a full understanding of why each topic covered i

Quality and Reliability Engineering: Recent Trends and Future Directions Bobby John, U.H. Acharya, Ashis K. Chakraborty, 2013-04-16 International conference supported by Indian Statistical Institute held at Bangalore 20 22 December 2011 selected papers

Prioritization of Failure Modes in Manufacturing Processes Jagdeep Singh, Harwinder Singh, Bhupinder Singh, 2020-05-21 Failure Mode and Effect Analysis FMEA are used to assess investigate and predict the Risk Priority Number RPN of potential failures within the manufacturing industry The authors use fuzzy logic as a tool to overcome the vagueness associated with traditional methods of assessing potential failures

Goal Oriented Methodology and Applications in Nuclear Power Plants Yi Xiao-Jian, Shi Jian, Mu Hui-Na, 2019-10-29 Goal Oriented Methodology and Applications in Nuclear Power Plants A Modern Systems Reliability Approach presents the latest data and research on the modern system reliability approach by GO methodology to improve the quality and reliability of nuclear power plants NPP Quality and reliability are two key factors which are critical to the economic success of NPPs hence this book provides a comprehensive and systematic analysis of the latest data and research illustrated through the provision of examples and solutions applications and problems to test comprehension Authors Xiao Jian Jian and Hui Na systematically

illustrate reliability modeling analysis optimization allocation and assessment and their applications in NPPs This book without assuming prior knowledge presents all required information in an accessible and easily applied style It will be particularly valuable to engineering and reliability professionals nuclear engineering graduate students reliability engineering specialists and nuclear energy researchers Presents the latest research and data in one resource eliminating the need to consult many diverse sources Includes examples and solutions that provide practical applications Combines principles applications and examples within NPPs to provide a very thorough understanding of the technological aspects presented

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Six Sigma for the New Millennium Kim H. Pries,2009-01-09 This book is designed to walk the reader through the ASQ Certified Six Sigma Black Belt CSSBB Body of Knowledge BoK at a medium level of detail It follows the nine sections of the BoK exactly from enterprise wide deployment organizational process management and measures and team management to detailed coverage of each stage of the DMAIC process With more than 25 tables and 80 figures the various concepts can not only be read about but seen The appendices include all the statistical tables that test takers and also those in the field will need New to this edition is material that shows the Black Belt candidate how to work through some standard statistical tests just the kind he or she might expect to see on the certification exam The author has used this material for several years continually refining it based on students questions and also his own experiences at an electronics manufacturing plant This is truly the guidebook for the new millennium of lean and Six Sigma

Project Management of Complex and Embedded Systems Kim H. Pries,Jon M. Quigley,2008-10-22 There are many books on project management and many on embedded systems but few address the project management of embedded products from concept to production Project Management of Complex and Embedded Systems Ensuring Product Integrity and Program Quality uses proven Project Management methods and elements of IEEE embedded software development techniques to explain how to deliver a reliable complex system to market This volume begins with a general discussion of project management followed by an

examination of the various tools used before a project is underway The book then delves into the specific project stages concept product development process development validation of the product and process and release to production Finally post project stages are explored including failure reporting analysis corrective actions and product support The book draws heavily on information from Department of Defense sources as well as systems developed by the Automotive Industry Action Group General Motors Chrysler and Ford to standardize the approach to designing and developing new products These automotive development and production ideas have universal value particularly the concept of process and design controls The authors use these systems to explain project management techniques that can assist developers of any embedded system The methods explored can be adapted toward mechanical development projects as well The text includes numerous war stories offering concrete solutions to problems that might occur in production Tables and illustrative figures are provided to further clarify the material Organized sequentially to follow the normal life cycle of a project this book helps project managers identify challenges before they become problems and resolve those issues that cannot be avoided

Advances in Manufacturing III Adam Hamrol,Marta Grabowska,Damjan Maletič,2022-05-09 This book reports on innovative strategies for quality control risk assessment and sustainable development in production processes in the era of industry 4 0 Based on peer reviewed contributions to the 7th International Scientific Technical Conference MANUFACTURING 2022 held on May 16 19 2022 in Poznan Poland the chapters cover important topics relating to the use of quality management strategies in different stages of the production processes They report on methods for statistical process control vision control and inspection of machines on the application of machine learning methods in quality control and or risk assessment on issues relating to digital transformation and on methods to improve occupational safety Besides industrial applications the book also discusses the use quality management tools for educational purposes By bridging between concepts in quality engineering ergonomics digitalization and industry 4 0 this book offers an authoritative source of information for researchers engineers and managers

Reliable, Secure and Resilient Logistics Networks Lech Bukowski,2018-12-13 This book synthesizes the current state of knowledge on logistics infrastructures and process modeling especially for processes that are exposed to changing and uncertain environments It then builds on this knowledge to present a new concept of dependable product delivery assurance In order to quantitatively assess dependability a service continuity oriented approach as well as an imperfect knowledge based concept of risk are employed This approach is based on the methodology of service engineering and is closely related to the idea of the resilient enterprise as well as the concept of disruption tolerant operation The practical advantages of this concept are subsequently illustrated in three sample applications a modified FMECA method an expert system with fuzzy reasoning and a simulation agent based model of logistic network resilience The book will benefit a broad readership including researchers especially in systems science management science and operations research professionals especially managers project managers and analysts and undergraduate postgraduate and MBA students in

engineering **Design of Biomedical Devices and Systems, 4th edition** Paul H. King, Richard C. Fries, Arthur T. Johnson, 2018-10-03 This fourth edition is a substantial revision of a highly regarded text intended for senior design capstone courses within departments of biomedical engineering bioengineering biological engineering and medical engineering worldwide Each chapter has been thoroughly updated and revised to reflect the latest developments New material has been added on entrepreneurship bioengineering design clinical trials and CRISPR Based upon feedback from prior users and reviews additional and new examples and applications such as 3D printing have been added to the text Additional clinical applications were added to enhance the overall relevance of the material presented Relevant FDA regulations and how they impact the designer s work have been updated Features Provides updated material as needed to each chapter Incorporates new examples and applications within each chapter Discusses new material related to entrepreneurship clinical trials and CRISPR Relates critical new information pertaining to FDA regulations Presents new material on discovery of projects worth pursuing and design for health care for low resource environments Presents multiple case examples of entrepreneurship in this field Addresses multiple safety and ethical concerns for the design of medical devices and processes **The ASQ Certified Six Sigma Yellow Belt Handbook** Govindarajan Ramu, 2022-06-30 This handbook is a helpful guide to Six Sigma process improvement and variation reduction Individuals studying to pass the ASQ Certified Six Sigma Yellow Belt CSSYB exam will find this comprehensive text invaluable for preparation and it is also a handy reference for those already working in the field The handbook offers a comprehensive understanding of the Body of Knowledge BoK which will allow readers to support real Six Sigma projects in their current or future roles This handbook updated to reflect the 2022 BoK includes A detailed explanation of each section of the CSSYB BoK Essay type questions in each chapter to test reading comprehension Numerous appendices a comprehensive list of abbreviations and a glossary of useful terms Online contents including practice exam questions Source lists which include webinars tools and templates and helpful publications *Enterprise Interoperability: Smart Services and Business Impact of Enterprise Interoperability* Martin Zelm, Frank-Walter Jaekel, Guy Doumeings, Martin Wollschlaeger, 2018-12-18 The ability of future industry to create interactive flexible and always on connections between design manufacturing and supply is an ongoing challenge affecting competitiveness efficiency and resourcing The goal of enterprise interoperability EI research is therefore to address the effectiveness of solutions that will successfully prepare organizations for the advent and uptake of new technologies This volume outlines results and practical concepts from recent and ongoing European research studies in EI and examines the results of research and discussions cultivated at the I ESA 2018 conference Smart services and business impact of enterprise interoperability The conference designed to encourage collaboration between academic inquiry and real world industry applications addressed a number of advanced multidisciplinary topics including Industry 4 0 Big Data the Internet of Things Cloud computing ontology artificial intelligence virtual reality and enterprise modelling for future smart manufacturing Readers will find this book to be a source

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