

SSP Design Option Environmental Scorecard

	= Best
	= Medium
	= Worst

XTD 85A Rotherhithe New Rd (W)

Option		Option				Recommendation			
		Material	Energy (GJ/T)	Carbon (T CO ₂)	Water (m ³)	Material	Energy (GJ/T)	Carbon (T CO ₂)	Water (m ³)
Deck Plate Strengthening Options	1A Reduce Ballast Depth	Concrete	486.7	26.04	379.6				
	1B Strengthen T-Stiffeners	Steel	60.0	2.92	37.2	Recycled Steel	20.0	0.94	5.2
	1C Additional Cross Girders	Steel	183.0	8.91	113.5	Recycled Steel	61.0	2.87	15.9
	1D Additional Railbearers or Longitudinal Girders	Steel	123.0	5.99	76.3	Recycled Steel	41.0	1.93	10.7
Central Girder B Curtailment 3 Strengthening Options	2A Reduce Ballast Depth	Concrete	486.7	26.04	379.6				
	2B Additional Strengthening Plate	Steel	12.0	0.58	7.4	Recycled Steel	4.0	0.19	1.0
	2C Top Hat Girder	Steel	12.0	0.58	7.4	Recycled Steel	4.0	0.19	1.0
Central Girder B Bearing Stiffener Strengthening Options	3A Reduce Ballast Depth	Concrete	486.7	26.04	379.6				
	3B Reduce Tracklift	None	0	0	0				
	3C Reassessment	None	0	0	0				
	3D Strengthen Bearing Stiffeners	Steel	3.0	0.15	1.9	Recycled Steel	1.0	0.05	0.3
	3E Encase Bearing Stiffeners in Concrete	Reinforced Concrete	12.0	0.03	10.5				

Maintenance Scorecard

Daryl Mather

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the name bar.

Maintenance Scorecard:

The Maintenance Scorecard Daryl Mather, 2005 Performance measurement in maintenance is a key ingredient when an organization is seeking excellence in their maintenance practices Unquestionably a maintenance scorecard MSC consistent with corporate goals will be invaluable In this context I was pleased to see addresses in the very first Chapter not only comments on key ingredients of a MSC but also implementation issues associated with the use of a MSC There is so little written on the balanced scorecard BSC concept being applied to the maintenance function and as the first book focusing on the BSC in the context of maintenance termed by Mather the MSC it will be a welcome addition to the arsenal of literature available to ensure superior maintenance performance in an organizations Andrew K S Jardine PhD C Eng P Eng Professor Department of Mechanical Industrial Engineering University of Toronto The Maintenance Scorecard is an important work in the field of maintenance management It is important because it weaves together several disparate threads into an insightful and useful whole Implementation of the ideas presented in The Maintenance Scorecard could focus attention of both top management and maintenance leadership to meaningful improvements Joel Levitt President Springfield Resources It is so refreshing to hear someone whom truly knows what he is talking about rather than the theory merchants that tend to saturate our discipline Greg Pantaleoni Director Effective Systems Solutions Pty Ltd This is the first book to seriously tackle the subject of bringing Asset Management into line with other areas of corporate activity Through a unique adaptation of the balanced scorecard approach to asset management it provides a structured approach for both the development of strategy and its implementation Additionally readers will find a catalogue of indicators along with their uses and weaknesses a definitive guide to measuring the success of RCM programs and a logical format that leads them from start to finish with information and hints on each phase of the maintenance scorecard approach If you or your company need to manage physical assets you need this book Provides the RCM Scorecard which is unique to this book and has not been done previously to this level of detail Includes information and hints on each phase of the maintenance scorecard approach Focuses at length on the creation of strategy for asset management and details the differences between various industry types sectors and markets Offers an introduction to the methodology of Problem Elimination Logic and its application and use in the industry Contains a brief overview of the Technical Change Management System a method for increasing the effectiveness of capital spending in maintenance Provides a guide to some of the true uses and limitations of benchmarking as a strategic tool for improvement Uses many illustrations throughout to explain and underline the concepts being presented

The Maintenance Scorecard
Daryl Mather, 2005 Performance measurement in maintenance is a key ingredient when an organization is seeking excellence in their maintenance practices Unquestionably a maintenance scorecard MSC consistent with corporate goals will be invaluable In this context I was pleased to see addresses in the very first Chapter not only comments on key ingredients of a MSC but also implementation issues associated with the use of a MSC There is so little written on the balanced scorecard

BSC concept being applied to the maintenance function and as the first book focusing on the BSC in the context of maintenance termed by Mather the MSC it will be a welcome addition to the arsenal of literature available to ensure superior maintenance performance in an organizations Andrew K S Jardine PhD C Eng P Eng Professor Department of Mechanical Industrial Engineering University of Toronto The Maintenance Scorecard is an important work in the field of maintenance management It is important because it weaves together several disparate threads into an insightful and useful whole Implementation of the ideas presented in The Maintenance Scorecard could focus attention of both top management and maintenance leadership to meaningful improvements Joel Levitt President Springfield Resources It is so refreshing to hear someone whom truly knows what he is talking about rather than the theory merchants that tend to saturate our discipline Greg Pantaleoni Director Effective Systems Solutions Pty Ltd This is the first book to seriously tackle the subject of bringing Asset Management into line with other areas of corporate activity Through a unique adaptation of the balanced scorecard approach to asset management it provides a structured approach for both the development of strategy and its implementation Additionally readers will find a catalogue of indicators along with their uses and weaknesses a definitive guide to measuring the success of RCM programs and a logical format that leads them from start to finish with information and hints on each phase of the maintenance scorecard approach If you or your company need to manage physical assets you need this book Provides the RCM Scorecard which is unique to this book and has not been done previously to this level of detail Includes information and hints on each phase of the maintenance scorecard approach Focuses at length on the creation of strategy for asset management and details the differences between various industry types sectors and markets Offers an introduction to the methodology of Problem Elimination Logic and its application and use in the industry Contains a brief overview of the Technical Change Management System a method for increasing the effectiveness of capital spending in maintenance Provides a guide to some of the true uses and limitations of benchmarking as a strategic tool for improvement Uses many illustrations throughout to explain and underline the concepts being presented

The Maintenance Management Framework Adolfo Crespo Márquez, 2007-06-10 The Maintenance Management Framework describes and reviews the concept process and framework of modern maintenance management of complex systems concentrating specifically on modern modelling tools deterministic and empirical for maintenance planning and scheduling It presents a new perspective of maintenance management by focusing on the course of maintenance actions presenting a structure that ensures proper support for current maintenance managers clarifying the functionality that is required from information technology when applied to maintenance and the functions of modern maintenance engineering and creating a set of practical models for maintenance management planning and scheduling The discussion of all of these issues is supported through the use of case studies The Maintenance Management Framework will be beneficial for engineers and professionals involved in maintenance management maintenance engineering operations management quality etc It will also be of interest

to graduate students and researchers in this field **The Maintenance Scorecard - Ebook And Print Book Combo** Daryl Mather, 2005 This is the Book and CD combination version of this book Performance measurement in maintenance is a key ingredient when an organization is seeking excellence in their maintenance practices Unquestionably a maintenance scorecard MSC consistent with corporate goals will be invaluable In this context I was pleased to see addresses in the very first Chapter not only comments on key ingredients of a MSC but also implementation issues associated with the use of a MSC There is so little written on the balanced scorecard BSC concept being applied to the maintenance function and as the first book focusing on the BSC in the context of maintenance termed by Mather the MSC it will be a welcome addition to the arsenal of literature available to ensure superior maintenance performance in an organizations Andrew K S Jardine PhD C Eng P Eng Professor Department of Mechanical Industrial Engineering University of Toronto The Maintenance Scorecard is an important work in the field of maintenance management It is important because it weaves together several disparate threads into an insightful and useful whole Implementation of the ideas presented in The Maintenance Scorecard could focus attention of both top management and maintenance leadership to meaningful improvements Joel Levitt President Springfield Resources It is so refreshing to hear someone whom truly knows what he is talking about rather than the theory merchants that tend to saturate our discipline Greg Pantaleoni Director Effective Systems Solutions Pty Ltd This is the first book to seriously tackle the subject of bringing Asset Management into line with other areas of corporate activity Through a unique adaptation of the balanced scorecard approach to asset management it provides a structured approach for both the development of strategy and its implementation Additionally readers will find a catalogue of indicators along with their uses and weaknesses a definitive guide to measuring the success of RCM programs and a logical format that leads them from start to finish with information and hints on each phase of the maintenance scorecard approach If you or your company need to manage physical assets you need this book **Maintenance Audits Handbook** Diego Galar Pascual, Uday Kumar, 2016-04-06 This book addresses issues and challenges of performance measurement in the maintenance function It presents a proposal of indicators with a framework that classifies and sorts regarding functional and hierarchical aspects The book has been developed with different aspects of traditional literature i e several frameworks or natural groupings like BSC Balanced Scorecard Multicriteria framework Neely Prism and adaptation of these frameworks Hierarchies for the use of indicators and benchmark values are provided to allow quantification comparison and emission of recommendations

Maintenance Systems and Documentation Anthony Kelly, 2006-07-10 Managing Systems and Documentation addresses the main systems necessary for the successful operation of a maintenance organization such as performance control work control and documentation It shows how they can be modelled their function and operating principles and the main problems encountered in operation It is the third of three stand alone companion books with the aim of providing better understanding of maintenance operations in order to identify problems and prescribe effective solutions This is one of three stand alone

volumes designed to provide maintenance professionals in any sector with a better understanding of maintenance management enabling the identification of problems and the delivery of effective solutions The third of three stand alone companion books focusing on the main systems necessary for the successful operation of a maintenance organization Covers the maintenance of plant production and operations assets in industry and service sectors including manufacturing food and process engineering minerals and mining transport power and IT Includes review questions exercises and case studies Clearly specified objectives and learning outcomes are given for each chapter including a route map to link each chapter to the rest of the topics covered

Uptime John D. Campbell, James V. Reyes-Picknell, 2015-08-18 Uptime describes the combination of activities that deliver fewer breakdowns improved productive capacity lower costs and better environmental performance The bestselling second edition of Uptime has been used as a textbook on maintenance management in several postsecondary institutions and by many companies as the model framework for their mai

Developing Performance Indicators for Managing Maintenance Terry Wireman, 2005 This unique reference utilizes techniques based on other management measurement systems such as the balanced scorecard It also presents a maturing of measurement technique for maintenance and asset maintenance and development techniques allowing companies to be competitive into the future

Engineering Asset Management Dimitris Kiritsis, Christos Emmanouilidis, Andy Koronios, Joseph Mathew, 2011-02-03 Engineering Asset Management discusses state of the art trends and developments in the emerging field of engineering asset management as presented at the Fourth World Congress on Engineering Asset Management WCEAM It is an excellent reference for practitioners researchers and students in the multidisciplinary field of asset management covering such topics as asset condition monitoring and intelligent maintenance asset data warehousing data mining and fusion asset performance and level of service models design and life cycle integrity of physical assets deterioration and preservation models for assets education and training in asset management engineering standards in asset management fault diagnosis and prognostics financial analysis methods for physical assets human dimensions in integrated asset management information quality management information systems and knowledge management intelligent sensors and devices maintenance strategies in asset management optimisation decisions in asset management risk management in asset management strategic asset management and sustainability in asset management

Maintenance Costs and Life Cycle Cost Analysis Diego Galar, Peter Sandborn, Uday Kumar, 2017-09-18 Authors have attempted to create coherent chapters and sections on how the fundamentals of maintenance cost should be organized to present them in a logical and sequential order Necessarily the text starts with importance of maintenance function in the organization and moves to life cycle cost LCC considerations followed by the budgeting constraints In the process they have intentionally postponed the discussion about intangible costs and downtime costs later on in the book mainly due to the controversial part of it when arguing with managers The book will be concluding with a short description of a number of sectors where maintenance cost is of critical importance The goal is to

train the readers for a deeper study and understanding of these elements for decision making in maintenance more specifically in the context of asset management This book is intended for managers engineers researchers and practitioners directly or indirectly involved in the area of maintenance The book is focused to contribute towards better understanding of maintenance cost and use of this knowledge to improve the maintenance process Key Features Emphasis on maintenance cost and life cycle cost especially under uncertainty Systematic approach of how cost models can be applied and used in the maintenance field Compiles and reviews existing maintenance cost models Consequential and direct costs considered Comparison of maintenance costs in different sectors infrastructure manufacturing transport

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Table of Contents Maintenance Scorecard

1. Understanding the eBook Maintenance Scorecard
 - The Rise of Digital Reading Maintenance Scorecard
 - Advantages of eBooks Over Traditional Books
2. Identifying Maintenance Scorecard
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Maintenance Scorecard
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maintenance Scorecard
 - Personalized Recommendations
 - Maintenance Scorecard User Reviews and Ratings
 - Maintenance Scorecard and Bestseller Lists
5. Accessing Maintenance Scorecard Free and Paid eBooks
 - Maintenance Scorecard Public Domain eBooks
 - Maintenance Scorecard eBook Subscription Services
 - Maintenance Scorecard Budget-Friendly Options
6. Navigating Maintenance Scorecard eBook Formats
 - ePub, PDF, MOBI, and More
 - Maintenance Scorecard Compatibility with Devices
 - Maintenance Scorecard Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maintenance Scorecard
 - Highlighting and Note-Taking Maintenance Scorecard
 - Interactive Elements Maintenance Scorecard
8. Staying Engaged with Maintenance Scorecard

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Maintenance Scorecard
- 9. Balancing eBooks and Physical Books Maintenance Scorecard
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maintenance Scorecard
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Maintenance Scorecard
 - Setting Reading Goals Maintenance Scorecard
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maintenance Scorecard
 - Fact-Checking eBook Content of Maintenance Scorecard
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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