

System & Equipment Reliability Prioritization (SERP)



System & Equipment Reliability Prioritization (SERP) is a process to facilitate maintenance planning with an objective of achieving maximum reliability. SERP establishes the relative significance of systems and equipment to an organization's business based on cost, production, safety, environment, quality and other key corporate goals.

SERP is related to Reliability-Centered Maintenance (RCM), but is more efficient and directed. The SERP process combines comprehensive system and equipment ranking methods, equipment failure history review, personnel knowledge harvesting and Failure Modes and Effects Analysis (FMEA) to rapidly provide a relative prioritization systems and for each piece of equipment.

opX's System & Equipment Reliability Prioritization (SERP) program will provide your business with a relative prioritization of your organization's facilities, systems and equipment in alignment with corporate goals and objectives.

opX personnel's extensive experience in the key factors of Implementation and Integration of a SERP Process will enhance your ability to reach corporate goals and strategies including Operational Excellence, Financial Strength and Business Growth.

Benefits


- Identifies the Criticality of each System, Equipment and Component to the Organization
- Provides a Relative Prioritization of all Assets and Facilities based on Key Strategic Criteria, Values and Critical Success Factors
- Relative Prioritization Adapts to Changes in Key Strategic Criteria and System Characteristics (Interactive)
- Maintenance and Operations are in Agreement with Priorities
- The Process is Dynamic and Readily Integrated with a Continuing Improvement Program
- Equipment Criticality is established for Prioritizing Remedial Actions

A portion of the results from the SERP process will include System Definition and Ranking by Element, Equipment Assignment and Ranking, Creation of a Critical Equipment List, Maintenance Priority for Critical Equipment and Maintenance Priority and Task Reviews for Non-Critical Equipment (i.e. Run To Failure (RTF) evaluation).

SERP Example Results

Component Types	Replacement Cost	Replacement Time	Redundancy	Environmental Impact	Safety	ECR
AHU - Makeup	3	5	5	0	5	9.17
AHU - Recirc	3	5	5	0	5	9.17
AHU - Standard	3	5	5	0	5	9.17
AHU -Computer Room	4	5	5	0	5	9.54
Air Operated Pump	1	5	10	1	3	11.66
Alarm	1	1	5	0	10	11.27
Analytical Transmitter	1	3	7	0	2	7.94
Analyzer	1	3	7	0	2	7.94
Ansul System	0	0	0	0	0	0.00
Back Flow Preventor	2	5	10	1	5	12.45
Batteries	6	7	10	0	5	14.49
Battery Charger	0	0	0	0	0	0.00
Bearings	0	0	0	0	0	0.00
Boiler	7	6	8	0	5	13.19
Chiller	5	7	10	10	5	17.29
Cimplicity HMI	1	3	1	0	0	3.32
Compactor	4	5	7	2	5	10.91
Compressor	3	5	7	0	5	10.39
Condensate Return	2	4	10	3	1	11.40
Control Valve	1	2	10	0	5	11.40
Controller	1	3	7	0	2	7.94
Cooling Tower	7	5	7	3	6	12.96

Additional Information – For your evaluation of our very effective System & Equipment Reliability Prioritization (SERP) program, more details can be provided on request. In addition, opX engineers are willing to visit your facility to present and discuss further aspects of the program. Please contact us at our website, or you can call/fax us directly.

 Consulting provides a unique combination of operational, organizational and management expertise to deliver improved business management processes, organizational assessments and readiness, operational excellence and future-state performance through the application of industry best practices and technologies. Our firm's services build upon state-of-the-art industry recognized management theories and methods, business processes and technologies, research and developments of leading organizations such as the Project Management Institute, the Balanced Score Card Institute.

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