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Business System Planning Project, Alternatives Analysis

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Hanford Group, Inc.

Richland, Washington

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Business Systems Planning Project

Alternatives Analysis

Prepared for

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1.0 INTRODUCTION

CH2M HILL Hanford Group, Inc. (CHG) is currently performing many core business functions including, but not limited to, work control, planning, scheduling, cost estimating, procurement, training, and human resources. Other core business functions are managed by or dependent on Project Hanford Management Contractors including, but not limited to, payroll, benefits and pension administration, inventory control, accounts payable, and records management. In addition, CHG has business relationships with its parent company CH2M HILL, U.S. Department of Energy (DOE), Office of River Protection (ORP) and other River Protection Project (RPP) contractors, government agencies, and vendors.

1.1 PURPOSE

The CHG Chief Information Officer (CIO) requested a study of alternatives to the current business system computing environment. This Business Systems Planning (BSP) Project Alternatives Analysis document presents an analysis of the current Project Controls, Work Management, and Business Management systems environment and alternative solutions that support the business functions.

1.2 SCOPE

The project team has collected requirements and priorities from stakeholders in each business area and documented them in the BSP System Requirements Specification (SRS), RPP-6297. The alternatives analysis process identifies and measures possible solutions in each of the business process areas against the requirements as documented in the SRS. The team gathered input from both internal and external sources to identify and grade the possible solutions. This document captures the results of that activity and recommends a suite of software products. This study was to select the best product based on how well the product met the requirements, not to determine the platform or hardware environment that would be used. Additional analysis documentation can be found in BSP project files.

1.3 OVERVIEW

CHG was awarded the prime contract, by the U.S. Department of Energy, Office of River Protection, for the River Protection Project to perform the planning and operations necessary for tank waste storage, retrieval, treatment and delivery of waste to and from the Waste Treatment Contractor.

As part of this contract CHG will work to achieve ORP objectives to reduce the administrative costs of doing business and apply the savings to mission related work to move forward with waste retrieval and to achieve autonomy where practical. To achieve the contractual requirement, the CHG CIO requested a study of alternatives to the current systems environment.

Effective information architectures provide the tools to support decision making and information sharing. For an enterprise such as CHG, a well designed and well managed information architecture can help bring efficiencies to the project delivery objectives by providing the capability to readily acquire, share, protect, disseminate, store, and retrieve accurate, timely and

reliable information. The products recommended in this document were chosen because of their potential to provide such an information architecture.

1.4 REFERENCES

- Business Systems Planning Project System Requirements Specification, RPP-6297, Rev.0.
- Lockheed Martin Services, Inc. Organization Standard Software Practices, Version 3.2.
- Institute of Electrical and Electronics Engineers Standard 8340-1984.

1.5 DEFINITIONS

Acronyms	Definition
BCR	Baseline Change Request
BMS	Business Management System
BSP	Business Systems Planning
CEIS	Cost Estimating Input Sheets
CHG	CH2M HILL Hanford Group, Inc
CIO	Chief Information Officer
CMM	Central Milestone Module
COTS	Commercial-Off-The-Shelf
DOE	Department of Energy
FH	Fluor Hanford, Inc.
HANDI	Hanford Data Integrator
HATS	Hanford Action Tracking System
HRIS	Human Resources Information System
HSTD	Hanford Site Technical Database
INFOT	InfoTech West, Inc.
IPARS	Integrated Planning and Reporting System
IPS	Indirect Planning System
IRM	Information Resource Management
JCS	Job Control System
LMSI	Lockheed Martin Services, Inc.
MPM	Micro-Frame Program Manager
MS	Microsoft
MYWP	Multi-Year Work Plan
NISI	Northwest Instrument Systems, Inc.
ORP	Office of River Protection
P3	Primavera Project Planner
PACS	Program Analysis and Control System
PERF	Performance Module
PHMC	Project Hanford Management Contract
QA	Quality Assurance
RPP	River Protection Project

SME	Subject Matter Expert
SRS	System Requirements Specification
TIS	Time Information System
WBS	Work Breakdown Structure

1.6 CONTRIBUTORS

The CHG CIO has a core team that evaluated, ranked and documented the analysis for the BSP Project. The CHG management provided primary Subject Matter Experts (SMEs) for contributing in the evaluation of products and ranking how well the products met the requirements for their specific business area needs.

1.6.1 Team Members

<u>Team Member</u>	<u>Business Area</u>	<u>Company</u>
Ronald L. Nelson	Information Resource Management / CIO	CHG
P. Brian Isaacs	Project Lead	LMSI
Joyce A Caldwell	Business Management	LMSI
Kelly A. Crace	Work Management	LMSI
Sandra Evosevich	Business Management	LMSI
Jimmy K. Hamilton	Work Management	CHG
Melody J. Kendall	Business Management	LMSI
Eldon C. Ladd	Project Controls	NISI
Diana L. Marquez	Project Controls	INFOT

1.6.2 Business Area Subject Matter Experts

<u>Projects Controls</u>	Joseph C. Annunziato Chance S. Blank James B. Blethen W. F. Greenway Walter S. Hood Eldon C. Ladd Michael R. Lewis P. Magallones
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Business Management

Claudia R. Burr
Joyce G. Etheridge
Greg A. Gardner
Alice R. Hendrickson
Kristi A. Samifua
Cathy S. Spears

2.0 CURRENT SYSTEMS ENVIRONMENT

This section describes the current systems environment.

2.1 PROJECT CONTROLS

The current CHG Project Controls environment includes the functional areas of planning, estimating, scheduling, reporting and risk analysis. For the purposes of this alternative analysis, risk analysis was not included in the scope. The current Project Controls configuration was evaluated and rated as an alternative. Below describes the AS-IS environment.

Many systems support Project Controls functions, but only significant ones that CHG utilize are addressed. The current Project Controls environment is a combination of Microsoft (MS) Access based systems, MS Word, MS Excel and Hanford Data Integrator (HANDI), which is a custom built application using a PowerBuilder front-end with an Oracle database engine.

The majority of the proposed technical scope and cost data are in MS Access based systems. The Cost Estimating Input Sheets (CEIS) system contains the cost estimates for activities and the resources for direct budgeting. Program Analysis and Control System (PACS) contains the technical scope and related process information such as risk, issues, and enabling assumptions data. MS Word is used by some organizations instead of PACS. Currently, CHG also uses Indirect Planning System (IPS) for budgeting data relating to indirect budget planning.

The baseline schedule is currently in Primavera Project Planner (P3). Changes to the baseline schedule are controlled following the approval of a Baseline Change Request (BCR). The BCR management process utilizes MS Word and MS Excel.

HANDI is a site wide data warehouse system used to store and report planning, budget, and cost performance data. HANDI has the ability to segregate some CHG reports from Project Hanford Management Contractor (PHMC). HANDI is not the source of any data. Rather, it receives data from a variety of systems such as the Performance Module (PERF), Hanford Site Technical Database (HSTD), Integrated Planning and Reporting System (IPARS) and Business Management System (BMS). PERF contains performance measurement data from the financial system and P3 schedules in a central database. HSTD contains data used to support the Multi-Year Work Plan (MYWP) preparation. IPARS uses the Central Milestone Module (CMM) for tracking and storing milestones. BMS supplies finance and invoice data to HANDI. Insight is used as a secondary reporting system, as it contains other pertinent Project Controls data.

2.1.1 Business Drivers for Change

Currently, P3 is the CHG standard scheduling tool and is considered satisfactory, therefore, evaluation of alternative scheduling tools was not pursued. Insight is the standard site repository for reporting and was not investigated for replacement.

Below are the business drivers for change in regard to Project Controls.

- 1) Automation support for Project Controls process is fragmented, resulting in a complex and labor intensive environment.
- 2) Lack of integration in current systems does not support the Project Control organization or the Information Resource Management (IRM) strategic goal of a single point of entry.
- 3) Several process improvements are needed to effectively manage CHG project lifecycle.
- 4) Current systems do not meet management needs in controlling the CHG project lifecycle.
- 5) Requirement for more timely cost performance information.
- 6) Desire to align with the CH2M HILL corporate project delivery methodology.

2.1.1.1 Pros

Below are the Pros for the current Project Controls environment as an alternative.

- 1) Implementation costs have already been incurred.
- 2) Systems and data are known and understood by users.

2.1.1.2 Cons

Below are the Cons for the current Project Controls environment as an alternative.

- 1) Shared environment with other prime contractors, constrains the ability to control systems, data or processes.
- 2) Multiple data repositories make it difficult to determine the validity of the information.
- 3) Fragmented data repositories result in redundant storage of similar data in multiple locations.
- 4) HANDI does not provide the level of the Work Breakdown Structure (WBS) reporting necessary for effective project management.
- 5) Inability to provide CHG the flexibility to do "what if" scenarios, in regard to schedule and baseline changes.
- 6) Current systems do not meet the CHG requirements for drilldown capabilities and reporting flexibility.
- 7) Inability to support web browser delivery and interface.

2.2 WORK MANAGEMENT

The current Work Management environment provides users with the ability to identify work, plan jobs, conduct work, record results, and document completion. The current Work Management configuration was evaluated and rated as an alternative. Below describes the AS-IS environment.

The Job Control System (JCS) provides support for work management functions by providing information on installed equipment, identifying preventative and corrective maintenance tasks, work package development and status tracking. The JCS also provides support for plan of the day/week scheduling, lock and tag requirements and task completion documentation. The JCS is administered centrally, but implemented independently for each major facility, resulting in 25 separate instances.

JCS is a custom application which was built using the Advanced Revelation programming and database development products.

2.2.1 Business Drivers for Change

- 1) JCS uses outdated technology that is becoming increasingly more difficult to support.
- 2) Lack of integration in current systems does not support the Work Management organizations or the IRM strategic goal of a single point of entry.

2.2.1.1 Pros

Below are the Pros for the current Work Management environment as an alternative.

- 1) JCS has an internal scheduling module and can produce schedules used for daily and weekly planning.
- 2) JCS is well known and accepted by the users, as it has been the site work management system since 1989.
- 3) JCS implementation costs have already been incurred and maintenance costs are low.

2.2.1.2 Cons

Below are the Cons for the current Work Management environment as an alternative.

- 1) JCS is dependent on continued support of old technology, specifically DOS and Advanced Revelation. With fewer applications using this technology, support will be increasingly diminished.
- 2) The current system and technology does not support the CHG mission, which extends beyond 2034.
- 3) JCS does not provide the ability to allocate resources such as materials and/or labor to the job.
- 4) There are no external interfaces with Finance, Human Resources, P3 or Material Management systems.

2.3 BUSINESS MANAGEMENT

Business Management functions include Action Tracking, Accounting, Time Recording, Payroll, Contracts, Procurement, Inventory, Human Resource Management and Training.

The current systems supporting business management is the Business Management System (BMS), which is comprised of Finance, Human Resources Information System (HRIS), Time Information System (TIS), Supply Management and Action Tracking modules. Finance includes General Ledger and General Finance. HRIS includes Human Resources, Training and Payroll. Supply Management includes Contracts, Purchasing, Inventory and Accounts Payable. The remainder of this document will refer to Supply Management as Material Management, which is the standard industry term. Action Tracking includes General Use Action Tracking, Deficiency Tracking and Employee Suggestions.

The current time recording system is TIS, which is a custom built application using a Visual Basic front-end with a MS SQL Server database engine. An alternative to TIS was evaluated, based on existing and additional requirements that CHG had identified. It became readily

apparent that TIS meets CHG's requirements for time recording more effectively than the Commercial-Off-The-Shelf (COTS) available software. Further discussion of an alternative for TIS is not warranted at this time, however, the ratings of TIS and PeopleSoft Time and Labor module can be found in Appendix A.

The current Business Management configuration of Material Management and Action Tracking were evaluated and rated as an alternative. Below describes the AS-IS environment.

The Contracts, Purchasing, Inventory, Accounts Payable, General Use Action Tracking, Deficiency Tracking and Employee Suggestion Program functions are currently utilizing Indus International's PassPort software. Employee Suggestion also utilizes a custom web interface.

Material Management business functions consist of Contracts, Procurement, Inventory and Accounts Payable with the software to support them. The COTS vendors generally group this software because of the tight interaction between purchasing, receiving and managing the purchased equipment and the paying of the vendors for services rendered.

For purposes of this study, the Inventory focus has been on CHG's internal needs, not the entire site's needs. The needs of CHG are the end use of inventory, which is to effectively manage the equipment in place in the field, purchasing and receiving parts for repairs and/or installations, staging of the parts for work to be performed and the removal and disposition of equipment.

Action Tracking encompasses three areas with common and unique business functions. The three areas are Deficiency Tracking, Employee Suggestions and General Use Action Tracking. Deficiency Tracking and Employee Suggestions are the two areas that have unique business functions and requirements. The General Use Action Tracking contain the common functions and requirements for all three areas, but can be used for tracking general actions in any business area.

PassPort is a COTS product using a Visual Basic front-end with an Oracle database engine.

2.3.1 Business Drivers for Change

CHG is satisfied with the current PeopleSoft products that support the business areas of General Ledger, General Finance, Human Resources, Payroll and Training, therefore, alternatives for these areas were not investigated. However, over the long term, an implementation separate from PHMC is recommended.

The following are business drivers for change in regard to the remaining business management functions.

- 1) Originally a major factor in selecting PassPort as an integrated solution was the intent to use PassPort for Work Management. Neither Fluor Hanford, Inc. (FH) or CHG currently have plans to expand the use of PassPort. The goal to have a minimum set of commercial products brings into question the continued use of PassPort.

- 2) Shared environment with other prime contractors, constrains the ability to control systems, data or processes.

2.3.2 PassPort Material Management

The current Material Management software is a COTS solution called PassPort from Indus International, which was implemented into production on October 1, 1998. The software consists of Contracts, Purchasing, Inventory and Accounts Payable modules. The PassPort delivered product had to be customized prior to implementation, particularly in the Contracts and Accounts Payable areas. The current system utilizes a Finance Integration product from PassPort to interact with PeopleSoft Finance.

The Contracts and Purchasing modules are used by CHG on a day-to-day basis for procurement of materials and services.

PassPort's Inventory module has been implemented to focus on warehouse management functions and storage of convenient supplies and/or materials, functions that are performed by DynCorp Tri-Cities Services, Inc. as a supplier. The needs of CHG extend beyond standard warehouse functions, down to the lower level of staging materials for work in the field. The majority of CHG material purchases are direct purchases, not as a replenishment of inventory. Inventory evaluations were based solely on CHG's requirements and did not address any site needs.

Currently, FH is managing the day-to-day Accounts Payable functions in regard to using PassPort. Beginning October 2000, CHG will be using PassPort's Accounts Payable module to pay vendors, reimburse non-employee expenses and to process accruals in a shared environment.

2.3.2.1 Pros

Below are the Pros for the current Material Management environment as an alternative.

- 1) Implementation costs have already been incurred.
- 2) System and data are known and understood by users.
- 3) The CHG personnel using the Contracts and Purchasing modules, from an end-user standpoint, say the product functions well for them.

2.3.2.2 Cons

Below are the Cons for the current Material Management environment as an alternative.

- 1) Various users of the PassPort product modules state that something may work well today and then after a patch or upgrade is applied, the feature no longer works. The vendor appears to lack adequate testing prior to production releases.
- 2) The overall vendor responsiveness and support is inadequate.
- 3) Because CHG operates in a shared environment with FH requesting system changes impacts both contractors, requiring major coordination efforts and sometimes impossible to make changes in business processes.
- 4) Software is technically complex and expensive to maintain, requiring major analysis prior to modification.

- 5) Vendor support is generally needed to make a modification to the software, due to the complexity of the software, which is neither cost effective nor timely.
- 6) Product architecture is too technically integrated and not modular.
- 7) The Finance Integration product has greatly extended the timeline for version upgrades across the PassPort and PeopleSoft finance products.
- 8) Accounts Payable is not within the same product suite as other finance modules.
- 9) PassPort is more labor intensive to use than other applications, when compared to applications used in the past or evaluated as a potential replacement.

2.3.3 PassPort Action Tracking

The current Action Tracking software is a COTS solution from PassPort, which is integrated with the Material Management suite. PassPort is the current application being used for Deficiency Tracking, and some of the Employee Suggestion Program functionality. A portion of the Employee Suggestion module uses a web interface to meet functions not provided by PassPort. PassPort is not used for General Use Action Tracking, leaving each organization to determine how to manage and track actions.

2.3.3.1 Pros

Below are the Pros for the current Action Tracking environment as an alternative.

- 1) Implementation costs have already been incurred.
- 2) System and data are known and understood by users.

2.3.3.2 Cons

Below are the Cons for the current Action Tracking environment as an alternative.

- 1) Because PassPort does not allow efficient or cost-effective modification to the data or functionality, it has become a constraint for meeting the data input, processing and reporting functions for Action Tracking.
- 2) Does not provide the functionality, nor is it cost-effective to be used for General Use Action Tracking, which can span multiple business areas.
- 3) Does not provide adequate functionality for the Employee Suggestion Program, so it must be supplemented by the web add-on to meet the business need.
- 4) PassPort is more labor intensive to use than other applications when compared to applications used in the past or evaluated as a potential replacement.

3.0 ALTERNATIVE PRODUCT DESCRIPTIONS

This section presents the product descriptions that were evaluated or considered as an alternative to the current systems environment.

3.1 PROJECT CONTROLS

This section describes the alternative product descriptions for the Project Controls environment.

3.1.1 MicroFusion Millennium and wInsight

The commercial product of Integrated Management Concept's MicroFusion Millennium and the C/S Solutions' wInsight product were installed and evaluated. Millennium provides a common repository for the resource pricing/cost estimating information, project performance and earned value analysis. wInsight is a reporting product that compliments Millennium with a comprehensive set of performance reports providing drill down capabilities.

Millennium software uses MS Access as a front-end with an Oracle or MS SQL Server as the database engine. Millennium's user interface is tree based similar to Windows Explorer with the ability to define custom user views. The wInsight product is Windows-based and used as a reporting tool by extracting information from the Millennium database engine.

3.1.1.1 Pros

- 1) Vendor supplied integration of P3, Millennium, and wInsight products.
- 2) Supports industry standard project management and earned value methodologies.
- 3) Supports weekly performance reporting.
- 4) Vendor delivered evaluation software was easy to install.
- 5) Vendor technical support through the evaluation process was good.
- 6) System can handle current project lifecycle data.
- 7) Vendor provides a robust product for storing cost and pricing data.
- 8) Appears to support sophisticated rates, overhead, and burdens build-up process.
- 9) The wInsight component provides flexible performance reporting capabilities.
- 10) Provides web browser delivery and interface.

3.1.1.2 Cons

- 1) Text fields are limited to 250 characters and cannot hold paragraph formatting. Conversion from the CEIS system narrative will require significant restructure and summarization.
- 2) The Millinium and wInsight products require data to be validated upon entry, which may require significant data validation and possible restructuring in P3 prior to implementation.
- 3) Product can only handle five charge codes per WBS element. This is limiting, but better than other products.

3.1.2 Micro-Frame Program Manager

Micro-Frame Program Manager (MPM) from Business Engine, Inc. was installed and evaluated in Spring 2000 by CHG, independent from the BSP Project. The results were used for the purposes of this analysis.

MPM is a work breakdown structure based system used for integrating proposals, cost estimating, and program management. It has various modules that allow for proposals and cost estimating, "what-if" analysis, baseline planning/estimates to complete, performance measurement, earned value reporting, and subcontract management.

The MPM product is Windows-based product using a Btrieve database engine.

3.1.2.1 Pros

- 1) Supports industry standard project management and earned value methodologies.
- 2) Supports weekly performance reporting.
- 3) Vendor delivered evaluation software was easy to install.
- 4) Vendor technical support through the evaluation process was good.
- 5) Per the vendor, MPM meets government proposal/reporting requirements.

3.1.2.2 Cons

- 1) P3 interfaces are done through the use of flat files, not a direct linkage.
- 2) Cannot handle the current project lifecycle data, due to large file sizes.
- 3) Software is not supported by vendor for future upgrades.
- 4) Utilizes Btrieve database engine which is not current technology and not as reliable as Oracle or MS SQL Server.
- 5) Product can only handle one charge code per WBS element.
- 6) No web interface.

3.1.3 Other Alternatives

PRISM from Applied Research & Engineering Sciences, COBRA from Welcom, and Dekker TRAKKER from Dekker, Ltd. were evaluated in early 2000 separate from the BSP Project. The products were evaluated by various organizations independent of each other. The evaluations and related documentation are available in the BSP Project files. The primary reason these alternatives were not considered was their lack of a P3 interface.

3.2 WORK MANAGEMENT

This section describes the alternative product descriptions for the Work Management environment.

3.2.1 MAXIMO Work Management

MAXIMO from Project Software and Development, Inc. is an integrated suite of modules that support the equipment maintenance function. In addition to equipment maintenance, MAXIMO includes functionality for inventory, procurement, lock out/tag out, scheduling, as well as

integration to external systems such as PeopleSoft Financials. MAXIMO is designed to allow local tailoring to adjust for customer specific needs. MAXIMO has workflow capabilities that can be designed to support work management processes.

MAXIMO is a Windows-based product, using an Oracle or MS SQL Server database engine.

3.2.1.1 Pros

- 1) MAXIMO is very flexible and can be easily tailored to CHG business processes.
- 2) Vendor supplied integration with P3 available.
- 3) Vendor supplied integration with PeopleSoft available.
- 4) MAXIMO provides additional functionality in other work areas not currently served by JCS, such as warehouse and inventory management, procurement, time reporting.
- 5) MAXIMO is very scalable and can be implemented with varying levels of functionality on both the Oracle and MS SQL Server database platforms.
- 6) The vendor has a good reputation for delivering a quality product.
- 7) Customer Support is available by telephone during business hours seven days a week, per the maintenance agreement. Online web support provides access to documented problems and resolutions, as well as the ability to email problems to the vendor 24 hours a day.
- 8) MAXIMO's equipment history tracking efficiently meets DOE requirements.
- 9) Resources such as material and labor, used to perform work can be planned and financially accounted for.
- 10) MAXIMO can incorporate safety planning such as lock-out/tag-out, hazards, precautions and permits in the work package.
- 11) Preventative Maintenance can be triggered by meter readings and inspection results.
- 12) A single job plan can be referenced by multiple Work Orders.
- 13) Purchasing and Inventory integration within MAXIMO or in conjunction with PeopleSoft allows material lead times to be incorporated in the schedule.
- 14) Business processes can be modeled to match CHG workflows including multi-level approvals, enforced process steps, routing, and tracking.
- 15) MAXIMO is currently implemented on site for DynCorp and Pacific Northwest National Laboratory.

3.2.1.2 Cons

- 1) MAXIMO is relatively expensive compared to other alternatives.
- 2) Tailoring MAXIMO will require significant upfront planning and design to best utilize the product.
- 3) MAXIMO is not the primary system used on site for Work Management.

3.2.2 CHAMPS Work Management

CHAMPS from CHAMPS Software, Inc. is an integrated suite of modules that support the equipment maintenance function. In addition to equipment maintenance, CHAMPS provides modules for inventory, procurement, lock out/tag out, scheduling, work force management,

accounts payable, and hazardous materials. CHAMPS is designed to allow local tailoring to adjust for customer specific needs.

CHAMPS software is a Windows-based product, using an Oracle or MS SQL Server database engine.

3.2.2.1 Pros

- 1) CHAMPS is very flexible and can be easily tailored to CHG business processes.
- 2) CHAMPS provides additional functionality in other work areas not currently served by JCS, such as warehouse and inventory management, procurement, lock-out/tag-out, accounts payable, and time reporting.
- 3) CHAMPS is very scalable and can be implemented with varying levels of functionality on both the Oracle and MS SQL Server and database platforms.
- 4) CHAMPS offers site licensing agreements that would allow CHG to share software costs with other contractors who are interested in the solution.
- 5) The vendor has a good reputation for delivering a quality product.
- 6) CHAMPS equipment history tracking efficiently meets DOE requirements.
- 7) Resources such as material and labor, used to perform work can be planned and financially accounted for.
- 8) Purchasing and Inventory integration within CHAMPS allows material lead times to be incorporated in the schedule.
- 9) CHAMPS includes sophisticated lock-out/tag-out functionality.

3.2.2.2 Cons

- 1) Tailoring CHAMPS will require significant upfront planning and design to best utilize the product.
- 2) Vendor does not provide integration with P3.
- 3) Vendor does not provide integration with PeopleSoft.
- 4) Customer Support is available by telephone between 5 AM and 3 PM on the west coast five days a week per the maintenance agreement, additional support would be at an added cost.
- 5) CHAMPS is not the primary system used on site for Work Management.

3.2.3 Job Control System Rewrite

In Spring 2000, the JCS site administration team proposed rewriting JCS in newer technology recognizing the current technology could not be sustained long term. This proposed alternative would provide the current functionality of JCS, plus some additional functionality inherent to Windows applications, with enhanced features planned for future releases.

The JCS Rewrite will use a Visual Basic front-end and MS SQL Server as the database engine. The rewrite has recently started with the first release expected by end of FY01.

3.2.3.1 Pros

- 1) Custom development allows a very tailored product to be developed.

- 2) Users are familiar with JCS processes and functions.
- 3) Site standard software will be used in the development of JCS.
- 4) The current JCS scheduling feature will be replaced with a P3 interface.
- 5) The Windows environment allows electronic document linking and application launching from within the application.
- 6) The JCS Rewrite equipment history tracking is expected to meet DOE requirements.

3.2.3.2 Cons

- 1) The ratings for this alternative are based on conceptual functionality that may or may not be incorporated in a delivered product.
- 2) The initial release of JCS will not incorporate interfaces to financial or material management systems.
- 3) Does not support the CHG IRM principle of using COTS products where feasible.

3.3 BUSINESS MANAGEMENT

This section describes the alternative product descriptions for the Business Management environment.

3.3.1 PeopleSoft Material Management

PeopleSoft Material Management is an integrated suite of modules consisting of Purchasing, Inventory, and Accounts Payable. The Purchasing module encompasses the Contracts function. The Material Management modules are sold separately and can be implemented as a total integrated suite or grouped as required.

PeopleSoft is a C++ front-end based product, using an Oracle or MS SQL Server database engine.

3.3.1.1 Pros

- 1) Same product as other financial modules General Ledger and Project Costing, which allows automatic updates to offsetting accounting entries and corresponding accounts.
- 2) PeopleSoft has proven technology and architecture.
- 3) Vendor has a good reputation for delivering a quality product.
- 4) Customer Support is available by telephone during business hours seven days a week, per the maintenance agreement. Online web support provides access to documented problems and resolutions, as well as the ability to email problems to the vendor 24 hours a day.
- 5) Accessibility to ad-hoc reporting using Crystal report writer, which is a standard tool of choice.
- 6) Utilized at four other DOE sites (Rocky Flats, Lawrence Berkley, Brookhaven, and Allied Signal in KC).
- 7) PeopleSoft has been successfully implemented at numerous DOE sites, where other Enterprise Resource Planning (ERP) type solutions have failed.
- 8) PeopleSoft is designed to allow local tailoring to meet customer specific needs.

- 9) PeopleSoft combines Contracts into the Purchasing module, which minimizes cross training in the buyer organization.

3.3.1.2 Cons

- 1) Vendor sells modules separately and cost is relatively expensive.

3.3.2 CHAMPS Material Management

CHAMPS from CHAMPS Software, Inc. is a suite of modules that support the Material Management functions and integrates with CHAMPS Work Management modules. CHAMPS Material Management contains Purchasing, Inventory and Accounts Payable modules. The Purchasing module includes the Contracts function. CHAMPS has an Accounts Payable module which contains a Chart of Accounts, but it does not formulate or pass debit and credit detail transactions or journal entries to a General Ledger or General Finance system.

CHAMPS software is a Windows-based product, using an Oracle or MS SQL Server database engine.

3.3.2.1 Pros

- 1) CHAMPS is designed to allow local tailoring to meet customer specific needs.
- 2) CHAMPS combines Contracts into the Purchasing module, which minimizes cross-training in buyer organization.

3.3.2.2 Cons

- 1) Not the same product suite as other finance applications, which introduces potential issues with data mapping for interface definitions.
- 2) Inability to track the levels of inspection required for receipt of goods.
- 3) Not as robust of a product as MAXIMO or PeopleSoft Material Management.
- 4) Customer Support is available by telephone between 5 AM and 3 PM on the west coast five days a week per the maintenance agreement, additional support would be at an added cost.

3.3.3 MAXIMO Material Management

MAXIMO Material Management from Project Software and Development, Inc. is a suite of modules that integrate with MAXIMO's Work Management modules. MAXIMO Material Management suite contains Purchasing and Inventory. The Purchasing module includes the Contracts function. MAXIMO does not contain an Accounts Payable module, but does provide a "MAXIMO for PeopleSoft" and "MAXIMO for ERP" that provides integration options with financial applications.

MAXIMO is a Windows-based product, using an Oracle or MS SQL Server database engine.

3.3.3.1 Pros

- 1) All modules are included in MAXIMO purchase price.
- 2) MAXIMO is designed to allow local tailoring to meet customer specific needs.

- 3) MAXIMO combines Contracts into the Purchasing module, which minimizes cross-training in the buyer organization.
- 4) Customer Support is available by telephone during business hours seven days a week, per the maintenance agreement. Online web support provides access to documented problems and resolutions, as well as the ability to email problems to the vendor 24 hours a day.

3.3.3.2 Cons

- 1) Product cannot standalone as a Material Management solution, but needs an Integration product to interface with PeopleSoft Finance.
- 2) Integration product is available only in an Oracle environment, which is an expensive environment and limits implementation infrastructure options.
- 3) Integration products extend upgrade timelines.

3.3.4 MAXIMO General Use Action Tracking

MAXIMO from Project Software and Development, Inc. was evaluated as an Action Tracking application. While MAXIMO does not come with a base Action Tracking module, MAXIMO has the flexibility to define new modules or clone existing modules. MAXIMO demonstrated the ability to clone the work management module and modify it to become an action tracking module. This module could then be tailored to encompass all Action Tracking business areas and functions in one module, with unique identifiers allowing them to function independent of the other business areas.

MAXIMO is a Windows-based product, using an Oracle or MS SQL Server database engine.

3.3.4.1 Pros

- 1) Work Management and Action Tracking are part of the same application, therefore, it more easily integrates business processes.
- 2) MAXIMO is integrated with work management, which enhances the corrective action capability.
- 3) MAXIMO has the flexibility to be tailored to meet user needs and changing business drivers.
- 4) Unique business functions can be met while making use of the common elements which promotes a single point of input.
- 5) All modules are included in the MAXIMO purchase price.
- 6) The vendor supports most enhancements/modification without additional cost.
- 7) Customer Support is available by telephone during business hours seven days a week, per the maintenance agreement. Online web support provides access to documented problems and resolutions, as well as the ability to email problems to the vendor 24 hours a day.
- 8) The vendor has a good reputation for delivering a quality product.

3.3.4.2 Cons

- 1) The design and development of the new modules will impact implementation cost and schedule.
- 2) Unless MAXIMO is purchased for Work Management capabilities, the cost of MAXIMO just for Action Tracking is high.

3.3.5 Hanford Action Tracking System Rewrite

The Hanford Action Tracking System (HATS) Rewrite alternative is based on a system that was retired when PassPort was implemented in October 1998. Multiple requests from the users prompted re-examination of rewriting the application as an alternative. This system would be a custom application to meet specific user needs for each of the action tracking systems and is not limited by user licenses.

The HATS rewrite estimate was based on a Visual Basic front-end, using a MS SQL server database engine.

3.3.5.1 Pros

- 1) Knowledge and documentation exist from retired system.
- 2) Adheres to the procedures for deficiency tracking.
- 3) Customized for users based on previously and currently defined requirements.
- 4) Ability to modify as needed to meet changing business drivers/functions.

3.3.5.2 Cons

- 1) Availability would be delayed due to the time required to redevelop the system.
- 2) Initial cost would be significantly higher than COTS because it would be a custom built and maintained system.
- 3) Does not support the CHG IRM principle of using COTS products where feasible.
- 4) Application would not be integrated with work management, which does not support integrated business functions having a single point of input.

3.3.6 CATSweb Action Tracking

CATSweb from AssurX.com, Inc. was evaluated. CATSweb has the capability to automate the documentation of the deficiencies through a web form, which is currently a manual process. The centralized corrective action group performs the validation, tracking and monitoring of the deficiency and associated corrective actions. The application uses colors throughout the application as indicators to easily identify various user functions and status of actions.

CATSweb is a COTS product with a web front-end and a MS SQL Server database engine.

3.3.6.1 Pros

- 1) Easily accessed through the web front-end.
- 2) Vendor appears to be responsive to customer's requests and needs.

- 3) Meets most requirements without significant tailoring. It has built in system administration capabilities to tailor the application to assist in meeting specific business needs.

3.3.6.2 Cons

- 1) Data fields are limited to 40 fields per form on the initial application, but additional fields can be added if appropriate under the maintenance contract.
- 2) Licensing is costly for General Use Action Tracking and Employee Suggestion Program.

3.3.7 Employee Suggestion Web Development

The Employee Suggestion Program currently has partial functionality on the web and was evaluated as a potential alternative. This alternative would require additional development to include the functions currently available in PassPort and the defined requirements used for this analysis. The web application could be modified to encompass General Use and Employee Suggestion functions. An add-on tool would be required to meet the reporting requirements.

The Web Development would be a custom application with a web front-end and a MS SQL Server database engine.

3.3.7.1 Pros

- 1) Web front-end provides ease of access and usage.
- 2) Customized to the user's specific business needs.
- 3) Independent of other systems.
- 4) Unlimited user access.

3.3.7.2 Cons

- 1) Initial cost is high due to custom development.
- 2) Reporting would need an add on tool, otherwise reporting would have limited functionality.
- 3) Would not meet the Deficiency Tracking without major enhancements, which were not part of the analysis or estimate.
- 4) Does not support the CHG IRM principle of using COTS products where feasible.

3.3.8 Other Action Tracking Alternatives

The Air Force Workflow Management System was also evaluated, but did not meet requirements sufficiently to be considered a viable alternative for Deficiency Tracking and Employee Suggestion. The Air Force Workflow Management System, Version 1.0 met most of the General Use Action Tracking requirements. However, it was eliminated as an alternative, because it was in a development state and not a released product.

There were several Deficiency Tracking applications used at various DOE sites that had been evaluated by CHG Quality Assurance (QA) personnel. The applications were determined by QA personnel not to be adequate to be considered as an alternative for Deficiency Tracking.

4.0 SELECTION DESCRIPTION

This section includes the Score Chart Summaries, Product and Vendor Cost Summaries and the Recommended Alternatives.

4.1 SCORE CHART SUMMARY

These score charts are a summarized version of all the requirements that are detailed in Appendix A.

4.1.1 Project Controls

Requirement	Millennium Score	MPM Score	Current PC Score
Common	343	287	180
General	364	384	405
Estimating	312	350	226
Planning	470	484	406
Scheduling	90	120	90
Reporting	1047	1073	768
Technical	807	564	673
Totals	3433	3262	2748
Evaluated Percentage	80	76	64
Functional Ranking	1	2	3

4.2 WORK MANAGEMENT

Requirement	MAXIMO Score	JCS Rewrite Score	CHAMPS Score	JCS Score
Common	371	298	353	237
Planning	651	671	717	483
Scheduling	216	194	115	132
Work Performance	196	186	216	162
Work Control/Admin	730	747	659	615
Technical	949	899	927	669
Totals	3113	2995	2987	2298
Evaluated Percentage	92	89	89	68
Functional Ranking	1	2	3	4

4.2.1 Business Management

Material Management Score Summary				
Requirement	PeopleSoft Score	CHAMPS Score	PassPort Score	MAXIMO Score
Common	372	353	171	371
Accounts Payable	868	750	721	0
Purchasing and Service Orders	1043	900	926	999
Material Purchasing	319	261	263	311
Inventory	456	446	314	456
Technical	984	927	767	949
Totals	4299	3637	3132	3086
Evaluated Percentage	88	75	64	63
Functional Ranking	1	2	3	4

Action Tracking Score Summary					
Requirement	MAXIMO Score	HATS Score	PassPort Score	CATSweb Score	Employee Suggestion Web Score
Common	371	353	171	245	299
General Use	344	368	211	218	369
Deficiency	3248	3278	2341	2648	0
Employee Suggestions	1573	0	1347	0	1676
Technical	949	990	767	841	936
Totals	6485	4989	4837	3952	3280
Evaluated Percentage	94	72	70	57	48
Functional Ranking	1	2	3	4	5

4.3 PRODUCT AND VENDOR COST SUMMARY

The below costs are related to the cost of the products, an estimate of vendor support and product technical support costs. The costs do not address hardware costs or user licenses needed for items such as a database management system. The costs also do not include LMSI labor costs, except where custom development is an alternative. Many of the alternatives have options for an Oracle or MS SQL Server environment. User license costs can vary greatly depending on the environment. The focus of this study was to select the best product based on how well the product met the requirements, not to determine the platform that would be used. Should a

project be developed based upon the recommendations provided, a platform environment will be determined and a cost estimate will be provided for implementation.

4.3.1 Project Controls

MicroFusion Millennium and wInsight

Millennium	118,140
Maintenance and Technical Support	35,442
Millennium Consulting (320 hours)	48,000
WInsight Consulting (80 hours)	12,000
P3 Connect and wInsight	60,640
Tools	40,952
Total	\$315,174

Micro-Frame Program Manager

MPM (already incurred)	0
Maintenance and Technical Support	10,000
Consulting (320 hours)	70,400
Tools	4,900
Total	\$85,300

4.3.2 Work Management

MAXIMO

MAXIMO Enterprise	271,300
Maintenance and Technical Support	54,800
Tools and Technical Support	50,034
Consulting (800 hours)	168,000
MAXIMO for Primavera and Technical Support	45,000
Workflow and Technical Support	29,600
Web Tools and Technical Support	4,683
Total	\$623,417

CHAMPS

Maintenance Module	116,000
Maintenance and Technical Support	19,720
Tools & Technical Support	9,588
Consulting (800 hours)	108,000
Develop P3 Interface	85,800
Total	\$339,108

JCS Rewrite (Hanford site cost, not CHG)

Total \$412,200

4.3.3 Business Management

PeopleSoft Material Management

Account Payables	171,500
Purchasing	224,000
Inventory	224,000
Consulting (320 hours)	64,000
Total	\$459,500

MAXIMO Material Management and Action Tracking product costs are included in the MAXIMO Work Management product cost summary, which is section 4.2.2.

CHAMPS Material Management product costs are included in the CHAMPS Work Management product cost summary, which is section 4.2.2.

HATS Rewrite

HATS Development and Technical Support	698,630
Tools and Technical Support	15,723
Total	\$714,353

CATSweb

CATSweb software and licenses	321,995
Maintenance and Technical Support	48,299
Tools	15,723
Total	\$386,017

Employee Suggestion Web Development

Development and Maintenance	165,550
Tools and Technical Support	15,723
Total	\$181,273

4.4 RECOMMENDED ALTERNATIVES

This section describes the alternative that is recommended for each business area.

4.4.1 Project Controls

A suite of commercial products referred to as the "Earned Value Pack" is recommended to meet the Project Controls requirements. The Earned Value Pack includes Primavera P3 for planning and scheduling, MicroFusion Millennium for pricing and cost management, and the C/S Solutions' wInsight product for consolidating and reporting earned value management data. Millennium proved superior to other products due to the ability to support CHG project lifecycle and the P3 interface.

As with all COTS solutions that implement industry standard processes, companies must adopt the processes the products support. Although today's COTS products offer some flexibility in the implementation of business rules, they may require significant process change. Analysis of CHG's requirements for Project Controls indicate that a more streamlined and disciplined approach is needed to effectively use a COTS product. Many of these processes have been identified and are in a process improvement cycle around the current environment. The process improvements will need to be aligned with the strengths of the COTS solution.

4.4.2 Work Management

MAXIMO is recommended as the work management solution. MAXIMO offers products which integrate with P3 for scheduling information, and PeopleSoft for financial, human resources and procurement information.

4.4.3 Business Management

The PeopleSoft offerings for Procurement and Accounts Payable are recommended. It is recommended that CHG use the inventory module of MAXIMO. Procurement and Accounts Payable will work well with the other PeopleSoft components, whether in a shared or independent implementation, and will interface with MAXIMO as needed. For action tracking needs such as Deficiency Tracking, the recommended alternative is MAXIMO utilizing the capability to create a module that meets the requirements for this area.

5.0 APPENDIX A – SCORING CHART DETAILS

Scoring chart characteristics:

Weight = the importance assigned to the requirement.

- Mandatory = 10
- Essential = 8
- Desirable = 1

Rank = ability to fulfill requirement

- Did not meet requirement = 0
- Partially met requirement with workaround = 1
- Satisfactorily met requirement = 2
- Efficiently met requirement = 3

Score = calculated score for the requirement ($\text{Score} = \text{Weight} \times \text{Rank}$)

Evaluation percentage = each alternative is formulated by $(\text{total of Scores} / \text{total of Weights}) \times 1$

5.1 COMMON SCORE SHEET

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workaround; 2 = satisfactorily met requirement; 3 = efficiently met requirement																
SRS	Requirement	Functional Area	Priority: Mandatory Essential or Desired	Weight Mandatory = 10 Essential =8 Desirable = 1	Current Project Control		Millennium		MPM		JCS		JCS Rewrite		MAXIMO	
					Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score
2.1.1.1	Provide on-line help capabilities, updated with each version.	General/ Documentation	Mandatory	10	3	30	3	30	0	0	3	30	3	30	3	30
2.1.1.2	Provide a comprehensive set of user documentation, available electronically, including general system features, screens, fields, reports, and other related information.	General/ Documentation	Essential	8	1	8	2	16	2	16	1	8	1	8	3	24
2.1.1.3	Provide self-paced user training materials, computer based is preferred.	General/ Documentation	Desirable	1	1	1	3	3	3	3	0	0	0	0	2	2
2.1.2.1	All software shall reflect industry standards and generally accepted business practices.	General/ Standards	Mandatory	10	1	10	2	20	2	20	2	20	3	30	3	30
2.2.1.1	Provide support for a multiple company environment, with ability to separate and/or access data at a company level.	Capability/ Functional	Mandatory	10	1	10	2	20	2	20	2	20	3	30	3	30
2.2.1.2	Ability to "Drill Down" to allow the user to navigate from a summary level to a detail level of data.	Capability/ Functional	Mandatory	10	2	20	3	30	2	20	0	0	0	0	3	30

2.2.1.3	Ability to allow multiple windows to be opened simultaneously.	Capability/ Functional	Essential	8	0	0	3	24	2	16	2	16	3	24	3	24
2.2.1.4	Ability to perform edit checking to validate entries, ensuring data integrity is maintained.	Capability/ Functional	Essential	8	1	8	3	24	3	24	3	24	3	24	3	24
2.2.1.5	Provide error messages in easily understood language and displayed immediately upon error detection.	Capability/ Functional	Desirable	1	1	1	2	2	2	2	1	1	2	2	3	3
2.2.2.1	Provide standard and ad-hoc query/report capabilities.	Capability/ Reporting	Mandatory	10	2	20	3	30	3	30	3	30	3	30	3	30
2.2.2.2	Ability to have all reports easily accessible electronically.	Capability/ Reporting	Essential	8	2	16	3	24	3	24	3	24	3	24	3	24
2.2.2.3	Allow the user to save and reuse multiple sets of the user-defined criteria used to generate and format reports.	Capability/ Reporting	Essential	8	1	8	3	24	3	24	3	24	3	24	3	24
2.2.2.4	Provide for requesting reports on standard periodic time periods, such as daily, weekly, monthly, etc.	Capability/ Reporting	Essential	8	1	8	3	24	2	16	0	0	1	8	3	24
2.2.2.5	Ability to print items, including multiple page items, report printouts, and query results.	Capability/ Reporting	Essential	8	2	16	3	24	3	24	2	16	3	24	3	24
2.2.2.6	Provide the user options of producing hard copy reports or exporting the report results into a comma-separated text file, tab-separated text file, Rich Text Format (*.rtf), ASCII, MS Excel file or MS Access file format.	Capability/ Reporting	Essential	8	2	16	3	24	3	24	1	8	2	16	3	24
2.2.2.7	Provide a report library in which the user has the ability to add, copy and/or modify based on access level	Capability/ Reporting	Essential	8	1	8	3	24	3	24	2	16	3	24	3	24

[illegible]

RANK VALUES:			CHAMPS		PassPort		HATS		CATSweb		Custom Web		PeopleSoft		TIS	
SRS	Requirement	Functional Area	Priority: Mandatory Essential or Desired	Weight Mandatory = 10 Essential =8 Desirable = 1	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score
2.1.1.1	Provide on-line help capabilities, updated with each version.	General/ Documentation	Mandatory	10	3	30	2	20	3	30	2	20	3	30	1	10
2.1.1.2	Provide a comprehensive set of user documentation, available electronically, including general system features, screens, fields, reports, and other related information.	General/ Documentation	Essential	8	3	24	1	8	3	24	2	16	3	24	1	8
2.1.1.3	Provide self-paced user training materials, computer based is preferred.	General/ Documentation	Desirable	1	2	2	1	1	2	2	2	2	3	3	1	1
2.1.2.1	All software shall reflect industry standards and generally accepted business practices.	General/ Standards	Mandatory	10	3	30	2	20	3	30	2	20	3	30	2	20
2.2.1.1	Provide support for a multiple company environment, with ability to separate and/or access data at a company level.	Capability/ Functional	Mandatory	10	3	30	2	20	3	30	3	30	3	30	1	10
2.2.1.2	Ability to "Drill Down" to allow the user to navigate from a summary level to a detail level of data.	Capability/ Functional	Mandatory	10	2	20	1	10	2	20	2	20	3	30	3	30

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workaround; 2 = satisfactorily met requirement; 3 = efficiently met requirement		Functional Area	Priority: Mandatory Essential or Desired	Weight Mandatory = 10 Essential = 8 Desirable = 1	CHAMPS		PassPort		HATS		CATSweb		Custom Web		PeopleSoft		TIS	
					Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score
SRS	Requirement																	
2.2.1.3	Ability to allow multiple windows to be opened simultaneously.	Capability/ Functional	Essential	8	3	24	3	24	3	24	3	24	3	24	3	24	3	24
2.2.1.4	Ability to perform edit checking to validate entries, ensuring data integrity is maintained.	Capability/ Functional	Essential	8	3	24	3	24	3	24	3	24	2	16	3	24	3	24
2.2.1.5	Provide error messages in easily understood language and displayed immediately upon error detection.	Capability/ Functional	Desirable	1	3	3	2	2	3	3	3	3	3	3	3	3	3	3
2.2.2.1	Provide standard and ad-hoc query/report capabilities.	Capability/ Reporting	Mandatory	10	3	30	1	10	3	30	1	10	2	20	3	30	3	30
2.2.2.2	Ability to have all reports easily accessible electronically.	Capability/ Reporting	Essential	8	3	24	2	16	3	24	1	8	3	24	3	24	3	24
2.2.2.3	Allow the user to save and reuse multiple sets of the user-defined criteria used to generate and format reports.	Capability/ Reporting	Essential	8	3	24	0	0	3	24	1	8	2	16	3	24	2	16
2.2.2.4	Provide for requesting reports on standard periodic time periods, such as daily, weekly, monthly, etc.	Capability/ Reporting	Essential	8	2	16	0	0	3	24	1	8	3	24	3	24	3	24
2.2.2.5	Ability to print items, including multiple page items, report printouts, and query results.	Capability/ Reporting	Essential	8	3	24	2	16	3	24	1	8	3	24	3	24	3	24

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workaround; 2 = satisfactorily met requirement; 3 = efficiently met requirement																		
SRS	Requirement	Functional Area	Priority: Mandatory Essential or Desired	Weight Mandatory = 10 Essential =8 Desirable = 1	CHAMPS		PassPort		HATS		CATSweb		Custom Web		PeopleSoft		TIS	
					Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	
2.2.2.6	Provide the user options of producing hard copy reports or exporting the report results into a comma-separated text file, tab-separated text file, Rich Text Format (*.rtf), ASCII, MS Excel file or MS Access file format.	Capability/Reporting	Essential	8	3	24	0	0	3	24	1	8	2	16	3	24	2	16
2.2.2.7	Provide a report library in which the user has the ability to add, copy and/or modify based on access level permissions.	Capability/Reporting	Essential	8	3	24	0	0	2	16	1	8	3	24	3	24	2	16
WEIGHT TOTAL:				124														
TOTAL POSSIBLE SCORE BASED WEIGHT AND RANK OF 3:																		
COMMON - PRODUCT TOTAL:					353	171	353	245	299	372	280							
PRODUCT PERCENTAGE OF TOTAL POSSIBLE SCORE:					95%	46%	95%	66%	80%	100%	75%							

5.2 TECHNICAL SCORE SHEET

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workarounds; 2 = satisfactorily met requirement; 3 = efficiently met requirement																				
SRS	Requirement	Functional Area	Priority Mandatory Essential or Desired	Weight Mandatory = 10 Essential =8 Desirable = 1	Current Project Control		Millennium		MPM		JCS		JCS Rewrite		MAXIMO					
					Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score				
4.1.1.1	Provide documentation with each version covering system administration functions including installation, hardware, environment considerations, backup, archiving, and system error messages.	General/ Administration	Mandatory	10	1	10	3	30	3	30	2	20	2	20	3	30				
4.1.1.2	Ability for the system administrator to add new reports and modify existing reports.	General/ Administration	Mandatory	10	2	20	3	30	3	30	2	20	2	20	3	30				
4.1.1.3	Must have modules affected by software patches, releases, and version changes clearly identified and documented.	General/ Administration	Mandatory	10	3	30	3	30	2	20	3	30	3	30	3	30				
4.1.1.4	Ability for the software to have a transaction logging method and support data recovery in the event of hardware or software failure.	General/ Administration	Mandatory	10	2	20	2	20	2	20	1	10	3	30	2	20				
4.1.1.5	Ability to recover a batch process from a failed point.	General/ Administration	Mandatory	10	2	20	2	20	2	20	1	10	1	10	1	10				
4.1.1.6	Provide a means to monitor users on-line and shall allow for the accumulation of metrics concerning usage.	General/ Administration	Essential	8	2	16	2	16	2	16	1	8	2	16	1	8				
4.1.1.7	Ability to monitor and track performance at the server level.	General/ Administration	Essential	8	2	16	2	16	2	16	1	8	1	8	NA	8				
4.1.1.8	Provide tools for aid with version upgrades of primary software and third party software products.	General/ Administration	Essential	8	2	16	2	16	2	16	2	16	2	16	3	24				

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workaround; 2 = satisfactorily met requirement; 3 = efficiently met requirement					Current Project Control	Millennium	MPM	JCS	JCS Rewrite	MAXIMO
SRS	Requirement	Functional Area	Priority Mandatory Essential or Desired	Weight Mandatory = 10 Essential =8 Desirable = 1	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score
4.1.1.9	The software shall allow menus/screens to be customized by the system administrator as needed.	General/ Administration	Essential	8	0	0	0	0	0	0
4.1.1.10	The software must provide a method to archive data, removing it from the production database.	General/ Administration	Essential	8	2	16	2	16	3	24
4.1.1.11	Provide a defined process and method to retrieve archived data.	General/ Administration	Essential	8	2	16	2	16	3	24
4.1.1.12	The software shall support an audit trail such as event logging that records user identification date/time and transaction status for every database insertion, change, or deletion.	General/ Administration	Essential	8	1	8	2	16	1	8
4.1.1.13	Provide the version upgrade process for Commercial-Off-The-Shelf (COTS) products with effective methods for sustaining users modifications to the software and data structures.	General/ Administration	Desirable	1	1	1	2	2	0	0
4.1.1.14	Provide field or context sensitive help and have editing capability by the system administrator.	General/ Administration	Desirable	1	0	0	0	0	1	1
4.1.1.15	Ability to remove users from security groups upon removal of access from the system.	General/ Administration	Desirable	1	0	0	1	1	3	3
4.1.2.1	The software vendor, in the form of consulting services and software functionality, shall provide support for implementation and data migration as an optional service.	General/ Vendor Support	Essential	8	1	8	3	24	3	24

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workaround; 2 = satisfactorily met requirement; 3 = efficiently met requirement																
SRS	Requirement	Functional Area	Priority Mandatory Essential or Desired	Weight Mandatory = 10 Essential =8 Desirable = 1	Current Project Control		Millennium		MPM		JCS		JCS Rewrite		MAXIMO	
					Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score
4.1.2.2	Provide help desk support for COTS products, at a minimum, during Pacific Standard Time business hours.	General/ Vendor Support	Essential	8	2	16	3	24	2	16	3	24	3	24	3	24
4.2.1.1	Ability to utilize one of the following relational database engines: Oracle and/or MS SQL Server.	Architecture/ Database	Mandatory	10	3	30	3	30	1	10	0	0	3	30	3	30
4.2.1.2	Ability for product databases to allow for modification and addition of tables and data fields.	Architecture/ Database	Mandatory	10	0	0	2	20	0	0	3	30	3	30	3	30
4.2.1.3	Provide row level locking for managing concurrent updates to databases.	Architecture/ Database	Mandatory	10	2	20	2	20	2	20	3	30	3	30	3	30
4.2.1.4	Ability to have multiple database regions/files with separate security.	Architecture/ Database	Essential	8	0	0	1	8	2	16	3	24	3	24	3	24
4.2.2.1	Use UNIX or MS NT server operating system, supporting multiple hardware platforms.	Architecture/ Infrastructure	Mandatory	10	3	30	3	30	2	20	2	20	3	30	3	30
4.2.2.2	Support Ethernet and Transmission Control Protocol/Internet Protocol communications.	Architecture/ Infrastructure	Mandatory	10	3	30	3	30	2	20	3	30	3	30	3	30
4.2.2.3	Provide compatibility with MS Windows 98 and 2000 workstation operating systems.	Architecture/ Infrastructure	Mandatory	10	3	30	3	30	1	10	3	30	3	30	3	30
4.2.2.4	Provide compatibility with, and interact with as appropriate, the MS office automation suite of MS Word, MS Excel, MS PowerPoint and MS Access.	Architecture/ Infrastructure	Mandatory	10	3	30	2	20	1	10	1	10	3	30	3	30
4.2.2.5	Where applicable, the software shall interact with MS Outlook for users notifications.	Architecture/ Infrastructure	Mandatory	10	2	20	2	20	1	10	0	0	3	30	3	30

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workaround; 2 = satisfactorily met requirement; 3 = efficiently met requirement																
SRS	Requirement	Functional Area	Priority Mandatory Essential or Desired	Weight Mandatory = 10 Essential =8 Desirable = 1	Current Project Control		Millennium		MPM		JCS		JCS Rewrite		MAXIMO	
					Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	
4.2.2.6	Provide compatibility with standard MS Windows printing controls.	Architecture/ Infrastructure	Essential	8	3	24	3	24	2	16	0	0	3	24	3	24
4.2.3.1	Ability for the software to print to network-attached printers/plotters.	Architecture/ Interface	Mandatory	10	3	30	3	30	2	20	3	30	3	30	3	30
4.2.3.2	Ability to interact with external systems using industry standard methods such as Open Data Base Connectivity (ODBC), Object Linking and Embedding (OLE), or custom Application Programming Interface (API). Documentation must be provided for supported methods.	Architecture/ Interface	Mandatory	10	2	20	3	30	0	0	0	0	3	30	3	30
4.2.3.3	Provide a web-enabled, thin client access capability.	Architecture/ Interface	Essential	8	1	8	3	24	0	0	0	0	0	0	2	16
4.2.4.1	Software vendors must demonstrate that their software is Year 2000 compliant.	Architecture/ Product	Mandatory	10	3	30	3	30	3	30	3	30	3	30	3	30
4.2.4.2	Software product vendors must provide supporting documentation, which defines the database architecture in detail.	Architecture/ Product	Mandatory	10	2	20	2	20	1	10	3	30	3	30	3	30
4.2.4.3	Utilize standard naming conventions for system objects such as tables, views, forms, reports, programs, packages, etc.	Architecture/ Product	Mandatory	10	2	20	2	20	2	20	3	30	3	30	3	30
4.2.4.4	Allow for the importing of existing, legacy system data.	Architecture/ Product	Essential	8	2	16	3	24	0	0	2	16	3	24	3	24
4.2.4.5	Allow multi-access read/write capability.	Architecture/ Product	Essential	8	2	16	2	16	3	24	3	24	3	24	3	24

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workaround; 2 = satisfactorily met requirement; 3 = efficiently met requirement														
		Current Project Control	Millennium		MPM		JCS		JCS Rewrite		MAXIMO			
SRS	Requirement	Functional Area	Priority Mandatory Essential or Desired	Weight Mandatory = 10 Essential =8 Desirable = 1	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score		
4.2.4.6	Allow for scalability in the number of users and the volumes of data with no appreciable loss in response time.	Architecture/ Product	Essential	8	2	16	2	16	0	0	3	24	3	24
4.2.4.7	The software users interface must be MS Windows standard GUI based.	Architecture/ Product	Essential	8	3	24	3	24	2	16	0	0	3	24
4.2.4.8	Provide a quick method of moving about the system with user definable hot keys.	Architecture/ Product	Desirable	1	2	2	2	2	2	2	0	0	0	1
4.2.5.1	A unique user identifier and password must control access to the system.	Architecture/ Security	Mandatory	10	2	20	3	30	3	30	3	30	3	30
4.2.5.2	The password must be encrypted, able to be chosen by the user, and not displayed on the screen when entered.	Architecture/ Security	Essential	8	2	16	2	16	2	16	3	24	3	24
4.2.5.3	Ability to have various security levels for read/write access, such as menu, screens, and field levels.	Architecture/ Security	Essential	8	1	8	1	8	3	24	2	16	2	16
4.2.5.4	Allow a group security profile, enabling users to be commonly grouped for access to the software.	Architecture/ Security	Essential	8	0	0	1	8	0	0	1	8	3	24

TOTAL POSSIBLE SCORE BASED ON WEIGHT AND RANK OF 3: 1038

TECHNICAL - PRODUCT TOTAL:		673	807	564	669	899	949
PRODUCT PERCENTAGE OF TOTAL POSSIBLE SCORE:		65%	78%	54%	64%	87%	91%

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workaround; 2 = satisfactorily met requirement; 3 = efficiently met requirement					CHAMPS		PassPort		HATS		CATSweb		Custom Web		PeopleSoft		TIS	
SRS	Requirement	Functional Area	Priority Mandatory Essential or Desired	Weight Mandatory = 10 Essential = 8 Desirable = 1	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score
4.1.1.1	Provide documentation with each version covering system administration functions including installation, hardware, environment considerations, backup, archiving, and system error messages.	General/ Administration	Mandatory	10	3	30	2	20	3	30	3	30	2	20	3	30	3	30
4.1.1.2	Ability for the system administrator to add new reports and modify existing reports.	General/ Administration	Mandatory	10	3	30	1	10	3	30	1	10	3	30	3	30	3	30
4.1.1.3	Must have modules affected by software patches, releases, and version changes clearly identified and documented.	General/ Administration	Mandatory	10	3	30	2	20	3	30	3	30	3	30	3	30	3	30
4.1.1.4	Ability for the software to have a transaction logging method and support data recovery in the event of hardware or software failure.	General/ Administration	Mandatory	10	2	20	2	20	3	30	2	20	2	20	2	20	3	30
4.1.1.5	Ability to recover a batch process from a failed point.	General/ Administration	Mandatory	10	NA	10	2	20	3	30	1	10	2	20	2	20	3	30
4.1.1.6	Provide a means to monitor users on-line and shall allow for the accumulation of metrics concerning	General/ Administration	Essential	8	1	8	1	8	2	16	1	8	2	16	3	24	3	24

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workaround; 2 = satisfactorily met requirement; 3 = efficiently met requirement																		
SRS	Requirement	Functional Area	Priority Mandatory Essential or Desired	Weight Mandatory = 10 Essential =8 Desirable = 1	CHAMPS		PassPort		HATS		CATSweb		Custom Web		PeopleSoft		TIS	
					Rank	Score	Rank	Score	Rank	Score	Rank	Score	Rank	Score	Rank	Score	Rank	Score
	usage.																	
4.1.1.7	Ability to monitor and track performance at the server level.	General/ Administration	Essential	8	NA	8	NA	8	2	16	1	8	2	16	3	24	3	24
4.1.1.8	Provide tools for aid with version upgrades of primary software and third party software products.	General/ Administration	Essential	8	3	24	2	16	1	8	3	24	3	24	3	24	2	16
4.1.1.9	The software shall allow menus/screens to be customized by the system administrator as needed.	General/ Administration	Essential	8	3	24	1	8	2	16	3	24	3	24	3	24	3	24
4.1.1.10	The software must provide a method to archive data, removing it from the production database.	General/ Administration	Essential	8	3	24	1	8	3	24	2	16	2	16	2	16	3	24
4.1.1.11	Provide a defined process and method to retrieve archived data.	General/ Administration	Essential	8	3	24	0	0	3	24	1	8	2	16	1	8	3	24
4.1.1.12	The software shall support an audit trail such as event logging that records user identification date/time and transaction status for every database insertion, change, or deletion.	General/ Administration	Essential	8	1	8	2	16	3	24	3	24	2	16	3	24	2	16
4.1.1.13	Provide the version upgrade process for Commercial-Off-The-Shelf	General/ Administration	Desirable	1	3	3	0	0	3	3	3	3	2	2	3	3	2	2

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workload; 2 = satisfactorily met requirement; 3 = efficiently met requirement											
SRS	Requirement	Functional Area	Priority Mandatory Essential or Desired	Weight Mandatory = 10 Essential =8 Desirable = 1	CHAMPS	PassPort	HATS	CATSweb	Custom Web	PeopleSoft	TIS
					Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score
	(COTS) products with effective methods for sustaining users modifications to the software and data structures.										
4.1.1.14	Provide field or context sensitive help and have editing capability by the system administrator.	General/ Administration	Desirable	1	3	3	1	3	2	2	1
4.1.1.15	Ability to remove users from security groups upon removal of access from the system.	General/ Administration	Desirable	1	2	2	3	3	3	3	3
4.1.2.1	The software vendor, in the form of consulting services and software functionality, shall provide support for implementation and data migration as an optional service.	General/ Vendor Support	Essential	8	3	24	3	24	3	2	3
4.1.2.2	Provide help desk support for COTS products, at a minimum, during Pacific Standard Time business hours.	General/ Vendor Support	Essential	8	2	16	3	24	3	24	3
4.2.1.1	Ability to utilize one of the following relational database engines: Oracle and/or MS SQL Server.	Architecture/ Database	Mandatory	10	3	30	3	30	3	30	3

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workaround; 2 = satisfactorily met requirement; 3 = efficiently met requirement																
SRS	Requirement	Functional Area	Priority Mandatory Essential or Desired	Weight Mandatory = 10 Essential =8 Desirable = 1	CHAMPS	PassPort	HATS	CATSwab	Custom Web	PeopleSoft	TIS					
					Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score					
4.2.1.2	Ability for product databases to allow for modification and addition of tables and data fields.	Architecture/ Database	Mandatory	10	3	30	1	10	3	30	3	30				
4.2.1.3	Provide row level locking for managing concurrent updates to databases.	Architecture/ Database	Mandatory	10	3	30	3	30	1	10	2	20	3	30		
4.2.1.4	Ability to have multiple database regions/files with separate security.	Architecture/ Database	Essential	8	3	24	3	24	1	8	2	16	3	24	3	24
4.2.2.1	Use UNIX or MS NT server operating system, supporting multiple hardware platforms.	Architecture/ Infrastructure	Mandatory	10	3	30	3	30	3	30	3	30	3	30	3	30
4.2.2.2	Support Ethernet and Transmission Control Protocol/Internet Protocol communications.	Architecture/ Infrastructure	Mandatory	10	3	30	3	30	3	30	3	30	3	30	3	30
4.2.2.3	Provide compatibility with MS Windows 98 and 2000 workstation operating systems.	Architecture/ Infrastructure	Mandatory	10	3	30	1	10	3	30	3	30	3	30	3	30
4.2.2.4	Provide compatibility with, and interact with as appropriate, the MS office automation suite of MS Word, MS Excel, MS PowerPoint and MS Access.	Architecture/ Infrastructure	Mandatory	10	3	30	2	20	3	30	3	30	3	30	3	30

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workaround; 2 = satisfactorily met requirement; 3 = efficiently met requirement																		
SRS	Requirement	Functional Area	Priority Mandatory Essential or Desired	Weight Mandatory = 10 Essential = 8 Desirable = 1	CHAMPS		PassPort		HATS		CATSweb		Custom Web		PeopleSoft		TIS	
					Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	
4.2.2.5	Where applicable, the software shall interact with MS Outlook for users notifications.	Architecture/ Infrastructure	Mandatory	10	3	30	3	30	3	30	3	30	2	20	3	30	3	30
4.2.2.6	Provide compatibility with standard MS Windows printing controls.	Architecture/ Infrastructure	Essential	8	3	24	2	16	3	24	3	24	3	24	3	24	3	24
4.2.3.1	Ability for the software to print to network-attached printers/plotters.	Architecture/ Interface	Mandatory	10	3	30	3	30	3	30	3	30	3	30	3	30	3	30
4.2.3.2	Ability to interact with external systems using industry standard methods such as Open Data Base Connectivity (ODBC), Object Linking and Embedding (OLE), or custom Application Programming Interface (API). Documentation must be provided for supported methods.	Architecture/ Interface	Mandatory	10	3	30	3	30	3	30	3	30	3	30	3	30	3	30
4.2.3.3	Provide a web-enabled, thin client access capability.	Architecture/ Interface	Essential	8	1	8	2	16	3	24	3	24	3	24	3	24	0	0
4.2.4.1	Software vendors must demonstrate that their software is Year 2000 compliant.	Architecture/ Product	Mandatory	10	3	30	3	30	3	30	3	30	3	30	3	30	3	30

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workaround; 2 = satisfactorily met requirement; 3 = efficiently met requirement				CHAMPS	PassPort	HAATS	CATSweb	Custom Web	PeopleSoft	TIS
SRS	Requirement	Functional Area	Priority Mandatory Essential or Desired	Weight Mandatory = 10 Essential = 8 Desirable = 1	Rank	Score	Rank	Score	Rank	Score
	access to the system.									
4.2.5.2	The password must be encrypted, able to be chosen by the user, and not displayed on the screen when entered.	Architecture/ Security	Essential	8	3	24	3	24	3	24
4.2.5.3	Ability to have various security levels for read/write access, such as menu, screens, and field levels.	Architecture/ Security	Essential	8	3	24	2	16	3	24
4.2.5.4	Allow a group security profile, enabling users to be commonly grouped for access to the software.	Architecture/ Security	Essential	8	3	24	3	24	3	24
WEIGHT TOTAL:				346						
TOTAL POSSIBLE SCORE BASED ON WEIGHT AND RANK OF 3:										
TECHNICAL - PRODUCT TOTAL:				927	767	990	841	936	984	979
PRODUCT PERCENTAGE OF TOTAL POSSIBLE SCORE:				89%	74%	95%	81%	90%	95%	94%

5.3 PROJECT CONTROLS SCORE SHEET

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workaround; 2 = satisfactorily met requirement; 3 = efficiently met requirement									
SRS	Requirement	Functional Area	Priority Mandatory, Essential, or Desired	Weight Mandatory = 10 Essential = 8 Desirable = 1	Current Project Control		Millennium		MPM
					Rank	Score	Rank	Score	
3.1.1.1	Must support, at a minimum, 60 concurrent users.	General	Mandatory	10	3	30	3	30	30
3.1.1.2	Must have word processing capabilities.	General	Mandatory	10	2	20	2	20	20
3.1.1.3	Ability to retain various global file scenarios.	General	Mandatory	10	1	10	3	30	30
3.1.1.4	Ability to retrieve and receive actual cost, as well as accruals.	General	Mandatory	10	3	30	1	10	0
3.1.1.5	Ability to retrieve and receive BCRs including cost and schedule changes.	General	Mandatory	10	2	20	2	20	20
3.1.1.6	Ability to retrieve and receive BCWP and BCWS for discrete work from scheduling tool.	General	Mandatory	10	3	30	2	20	10
3.1.1.7	Ability to retrieve and receive Common Occupational Classification System codes.	General	Mandatory	10	2	20	1	10	30
3.1.1.8	Ability to retrieve and receive historical costs.	General	Mandatory	10	2	20	2	20	30
3.1.1.9	Ability to retrieve and receive Organizational Breakdown Structure (OBS) and WBS down to at least 20 levels.	General	Mandatory	10	3	30	2	20	30
3.1.1.10	Ability to retrieve and receive performing organization and responsible organization.	General	Mandatory	10	3	30	2	20	30
3.1.1.11	Ability to retrieve and receive planning, escalation and actual rates.	General	Mandatory	10	2	20	2	20	30
3.1.1.12	Ability to use WBS as a primary index or key.	General	Mandatory	10	2	20	2	20	30
3.1.1.13	Must be compatible with operational field work schedules.	General	Mandatory	10	2	20	2	20	0
3.1.1.14	Ability to plan and schedule by full time equivalents, based on productive hours per year.	General	Mandatory	10	2	20	2	20	20
3.1.1.15	All project control components must be able to interface with each other.	General	Mandatory	10	2	20	2	20	20

RANK VALUES:									
0 = did not meet requirement 1 = partially met requirement with workaround; 2 = satisfactorily met requirement; 3 = efficiently met requirement									
SRS	Requirement	Functional Area	Priority Mandatory, Essential, or Desired	Weight Mandatory = 10 Essential = 8 Desirable = 1	Rank	Score	Rank	Score	MPM
3.1.1.16	Must have a P3 interface.	General	Mandatory	10	3	30	2	20	1
3.1.1.17	Ability to access actuals for work performed by others on a weekly basis.	General	Essential	8	0	0	0	0	0
3.1.1.18	Provide an intuitive format to allow users to move through problems rather than call for help.	General	Essential	8	1	8	3	24	3
3.1.1.19	Ability to retrieve and receive all associated actual costs, such as material, equipment and labor.	General	Essential	8	3	24	2	16	2
3.1.1.20	Ability to have internal scheduling capability excluding logic.	General	Desirable	1	1	1	2	2	2
3.1.1.21	Ability to retrieve and receive legal drivers information.	General	Desirable	1	2	2	2	2	2
General Sub-Total					44	405	41	364	43
									384
3.1.2.1	Ability to retain various accounting, fiscal, work, shift, etc. calendars.	Estimating	Mandatory	10	2	20	3	30	3
3.1.2.2	Ability to retain pricing data and manage multiple pricing files.	Estimating	Mandatory	10	2	20	2	20	3
3.1.2.3	Must have the ability to build to work package planning level.	Estimating	Mandatory	10	3	30	2	20	3
3.1.2.4	Ability to capture cost element and Common Occupational Classification System resources by multiple companies and performing organizations.	Estimating	Mandatory	10	2	20	2	20	3
3.1.2.5	Ability to provide an Integrated Site Baseline on an annual basis or as needed.	Estimating	Mandatory	10	2	20	2	20	3
3.1.2.6	Ability to print a series of cost validation reports.	Estimating	Mandatory	10	2	20	3	30	3

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workaround; 2 = satisfactorily met requirement; 3 = efficiently met requirement									
SRS	Requirement	Functional Area	Priority Mandatory, Essential, or Desired	Weight Mandatory = 10 Essential = 8 Desirable = 1	Current Project Control		Millennium		MPM
					Rank	Score	Rank	Score	
3.1.2.7	Ability for estimates to report/display direct and indirect cost, rates, escalation, contingency, elements and class of cost.	Estimating	Mandatory	10	2	20	3	30	3
3.1.2.8	Ability to report/display changes in estimates and the sources of the variance.	Estimating	Mandatory	10	2	20	3	30	2
3.1.2.9	Ability to drag and drop with mouse or keystrokes.	Estimating	Essential	8	0	0	3	24	3
3.1.2.10	Ability to create an estimate that is not part of the baseline by conducting "what-if" scenarios.	Estimating	Essential	8	2	16	3	24	3
3.1.2.11	Ability to manage level of effort work without having to schedule and coding activities as level of effort and system automatically computes BCWP.	Estimating	Essential	8	1	8	2	16	3
3.1.2.12	Ability to code for various types of data such as regular plan hours or standard hours.	Estimating	Essential	8	2	16	3	24	3
3.1.2.13	Ability to identify and report on recurring and non-recurring costs.	Estimating	Essential	8	2	16	3	24	3
<i>Estimating Sub-Total</i>				120	24	228	34	312	38
3.1.3.1	Ability to rollup costs.	Planning	Mandatory	10	3	30	3	30	3
3.1.3.2	Ability to use extensive coding schemes to select, sort, order and summarize data.	Planning	Mandatory	10	1	10	3	30	3
3.1.3.3	Ability to develop and use a WBS down to at least 20 levels.	Planning	Mandatory	10	3	30	2	20	3
3.1.3.4	Ability to contain a Code of Account, Charge Codes and Description, and OBS.	Planning	Mandatory	10	3	30	2	20	1
3.1.3.5	Ability to define multiple rate tables.	Planning	Mandatory	10	2	20	2	20	2

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workload; 2 = satisfactorily met requirement; 3 = efficiently met requirement									
SRS	Requirement	Functional Area	Priority Mandatory, Essential, or Desired	Weight Mandatory = 10 Essential = 8 Desirable = 1	Current Project Control		Millennium		MPM
					Rank	Score	Rank	Score	
3.1.3.6	Ability to define resource templates.	Planning	Mandatory	10	2	20	2	20	2
3.1.3.7	Must have a planning rate table for planning purposes including raw rates and various adders such as benefits, departmental overhead, continuity of service, absence, general and administrative, etc.	Planning	Mandatory	10	2	20	2	20	2
3.1.3.8	Ability to differentiate planning rates vs. actual rates.	Planning	Mandatory	10	2	20	3	30	3
3.1.3.9	Ability to track and relate Performance Incentives to WBS and BCRs.	Planning	Mandatory	10	1	10	2	20	2
3.1.3.10	Ability to input, store and print WBS and dictionaries.	Planning	Mandatory	10	2	20	2	20	2
3.1.3.11	Ability to have read capability at the project level.	Planning	Mandatory	10	2	20	2	20	3
3.1.3.12	Ability to have write capability at any level of the WBS.	Planning	Mandatory	10	1	10	1	10	2
3.1.3.13	Ability to assign access to specific levels of the WBS and their children.	Planning	Mandatory	10	1	10	1	10	1
3.1.3.14	Ability to link to external documents, such as an Acquisition Plan.	Planning	Essential	10	2	20	2	20	2
3.1.3.15	Ability to copy, delete, move and add WBS data in total, by arms or individually, controlled by system security privileges.	Planning	Essential	10	1	10	2	20	3
3.1.3.16	Ability to accommodate common numbering for WBS, Cost Account Charge Number (CACN), Cost Account Plan Number (CAPN) and Technical Baseline Review (TBR).	Planning	Essential	10	2	20	2	20	2
3.1.3.17	Ability to have an Integrated Priority List (IPL) and correlate it to various levels of the WBS.	Planning	Essential	10	1	10	2	20	2
3.1.3.18	Ability to tie legal drivers, etc. to WBS at the various levels.	Planning	Essential	8	2	16	2	16	1

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workaround; 2 = satisfactorily met requirement; 3 = efficiently met requirement											Current Project Control		Millennium		MPM	
SRS	Requirement	Functional Area	Priority Mandatory, or Essential, or Desired	Weight Mandatory = 10 Essential = 8 Desirable = 1	Rank	Score	Rank	Score	Rank	Score						
3.1.3.19	Ability to accommodate textual input such as descriptions or comments for a specific WBS.	Planning	Essential	8	2	16	2	16	2	16						
3.1.3.20	Ability to calculate profit/fee.	Planning	Desirable	8	2	16	3	24	3	24						
3.1.3.21	Ability to apply cost of money.	Planning	Desirable	8	2	16	3	24	3	24						
3.1.3.22	Ability to merge TBR numbers and CAPN into WBS code.	Planning	Desirable	8	2	16	2	16	2	16						
3.1.3.23	Ability to relate charge numbers to WBS for time recording and other purposes.	Planning	Desirable	8	2	16	3	24	2	16						
Planning Sub-Total					43	406	50	470	51	484						
3.1.4.1	Provide a change log to track and report approved changes.	Scheduling	Mandatory	10	2	20	2	20	3	30						
3.1.4.2	Ability to adapt to common scheduling specifications.	Scheduling	Mandatory	10	1	10	2	20	3	30						
3.1.4.3	Ability to identify and report on Cost Account Packages, Work Packages and Planning Packages.	Scheduling	Mandatory	10	3	30	3	30	3	30						
3.1.4.4	Ability to contain all milestones.	Scheduling	Mandatory	10	3	30	2	20	3	30						
Scheduling Sub-Total					9	90	9	90	12	120						
3.1.5.1	Ability to load actuals, performance, reconcile errors, run earned value and cost variance.	Reporting	Mandatory	10	3	30	2	20	2	20						
3.1.5.2	Ability to calculate Schedule Variance.	Reporting	Mandatory	10	2	20	3	30	3	30						
3.1.5.3	Ability to calculate Cost Variance.	Reporting	Mandatory	10	2	20	3	30	3	30						
3.1.5.4	Ability to calculate Percent of Schedule Variance.	Reporting	Mandatory	10	2	20	3	30	3	30						
3.1.5.5	Ability to calculate Percent of Cost Variance.	Reporting	Mandatory	10	2	20	3	30	3	30						

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workaround; 2 = satisfactorily met requirement; 3 = efficiently met requirement																Current Project Control		Millennium		MPM	
SRS	Requirement	Functional Area	Priority Mandatory, or Desired	Weight Mandatory = 10 Essential =8 Desirable = 1	Rank	Score	Rank	Score	Rank	Score	Rank	Score									
3.1.5.6	Ability to calculate Cost Performance Index.	Reporting	Mandatory	10	1	10	2	20	3	30											
3.1.5.7	Ability to calculate Schedule Performance Index.	Reporting	Mandatory	10	1	10	2	20	3	30											
3.1.5.8	Must have monthly performance data such as BCWP, BCWS, and ACWP.	Reporting	Mandatory	10	2	20	3	30	2	20											
3.1.5.9	Must have Estimate to Complete, Estimate at Completion, and Project to Date.	Reporting	Mandatory	10	3	30	3	30	3	30											
3.1.5.10	Ability to report Latest Revised Estimate at the work package level of the WBS.	Reporting	Mandatory	10	3	30	2	20	3	30											
3.1.5.11	Ability to accept data and report project lifecycle for a minimum of 60+ years.	Reporting	Mandatory	10	1	10	2	20	0	0											
3.1.5.12	Ability to perform "what-if" scenarios.	Reporting	Mandatory	10	2	20	3	30	3	30											
3.1.5.13	Ability to provide Site Performance Report on a monthly and quarterly basis.	Reporting	Mandatory	10	2	20	2	20	2	20											
3.1.5.14	Ability to provide integrated planning, accounting, and budgeting information on a monthly and quarterly basis.	Reporting	Mandatory	10	2	20	2	20	3	30											
3.1.5.15	Ability to provide contract funds status information on a monthly basis.	Reporting	Mandatory	10	2	20	3	30	3	30											
3.1.5.16	Ability to report by WBS, OBS, element of cost, labor type.	Reporting	Mandatory	10	2	20	3	30	3	30											
3.1.5.17	Provide earned value data electronically, in hard copy and in graphics including a narrative if possible.	Reporting	Mandatory	10	2	20	3	30	3	30											
3.1.5.18	Ability to produce Manpower reports.	Reporting	Mandatory	10	2	20	3	30	3	30											
3.1.5.19	Ability to select and display data for certain time frames.	Reporting	Mandatory	10	1	10	3	30	3	30											
3.1.5.20	Ability to report by fiscal year/month/qrt or calendar year.	Reporting	Mandatory	10	1	10	3	30	3	30											

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SRS		Requirement	Functional Area	Priority Mandatory, Essential, or Desired	Weight Mandatory = 10 Essential = 8 Desirable = 1	Current Project Control		Millennium		MPM					
						Rank	Score	Rank	Score	Rank	Score				
3.1.5.21		Ability to collect costs at user definable account levels.	Reporting	Mandatory	10	2	20	3	30	3	30				
3.1.5.22		Ability to differentiate between cost estimates and actual budgets.	Reporting	Mandatory	10	2	20	3	30	3	30				
3.1.5.23		Ability to provide a standard Actual Cost of Work Performed Report (refer to detail in Appendix A).	Reporting	Mandatory	10	3	30	3	30	2	20				
3.1.5.24		Ability to provide a standard Budgeted Cost of Work Performed Report (refer to detail in Appendix A).	Reporting	Mandatory	10	3	30	3	30	3	30				
3.1.5.25		Ability to provide a standard Budget Cost of Work Scheduled Report (refer to detail in Appendix A).	Reporting	Mandatory	10	3	30	3	30	3	30				
3.1.5.26		Ability to provide a standard Cost Variance Report (refer to detail in Appendix A).	Reporting	Mandatory	10	3	30	3	30	3	30				
3.1.5.27		Ability to provide a standard Schedule Variance Report (refer to detail in Appendix A).	Reporting	Mandatory	10	3	30	3	30	3	30				
3.1.5.28		Ability to provide a standard Variance Analysis Report (refer to detail in Appendix A).	Reporting	Mandatory	10	1	10	2	20	3	30				
3.1.5.29		Ability to provide a standard Budget At Completion Report (refer to detail in Appendix A).	Reporting	Mandatory	10	2	20	2	20	3	30				
3.1.5.30		Ability to provide a standard Estimate at Completion Report (refer to detail in Appendix A).	Reporting	Mandatory	10	1	10	2	20	3	30				
3.1.5.31		Ability to provide a standard Estimate to Complete Report (refer to detail in Appendix A).	Reporting	Mandatory	10	1	10	2	20	3	30				
3.1.5.32		Ability to provide a standard Total Project Cost Report (refer to detail in Appendix A).	Reporting	Mandatory	10	2	20	2	20	3	30				

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workaround; 2 = satisfactorily met requirement; 3 = efficiently met requirement										
SRS	Requirement	Functional Area	Priority Mandatory, Essential, or Desired	Weight Mandatory = 10 Essential = 8 Desirable = 1	Current Project Control		Millennium		MPM	
					Rank	Score	Rank	Score	Rank	Score
3.1.5.33	Ability to retain month end reports, by archival or storage, or the data to recreate reports, for prior years.	Reporting	Mandatory	10	2	20	3	30	3	30
3.1.5.34	Ability to provide visibility of total project funds for project managers.	Reporting	Mandatory	10	1	10	3	30	2	20
3.1.5.35	Ability to create auto-generated reports with real time information at user defined intervals.	Reporting	Essential	8	1	8	3	24	2	16
3.1.5.36	Ability to update CHG Project Managers with labor, material, and schedule progress by close of business Friday.	Reporting	Essential	8	1	8	2	16	0	0
3.1.5.37	Ability to link to an accurate commitment report of inactive invoices awaiting pricing audit.	Reporting	Essential	8	2	16	1	8	1	8
3.1.5.38	Ability to contain metrics to analyze effectiveness.	Reporting	Essential	8	2	16	1	8	3	24
3.1.5.39	Ability to create and print graphical reports.	Reporting	Essential	8	1	8	3	24	3	24
3.1.5.40	Ability to import P3 calendars and curves.	Reporting	Essential	8	2	16	3	24	2	16
3.1.5.41	Ability to produce applicable MYWP output reports.	Reporting	Essential	8	2	16	3	24	3	24
3.1.5.42	Ability to calculate To Complete Performance Index.	Reporting	Desirable	1	1	1	3	3	3	3
3.1.5.43	Ability to calculate percent Spent1.	Reporting	Desirable	1	1	1	3	3	3	3
3.1.5.44	Ability to calculate percent Spent2.	Reporting	Desirable	1	1	1	3	3	3	3
3.1.5.45	Ability to calculate Percent Complete.	Reporting	Desirable	1	1	1	3	3	3	3
3.1.5.46	Ability to calculate Best Case Independent Estimate at Complete.	Reporting	Desirable	1	1	1	3	3	3	3
3.1.5.47	Ability to calculate Most Likely Case Independent Estimate at Completion.	Reporting	Desirable	1	1	1	3	3	3	3

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workarounds; 2 = satisfactorily met requirement; 3 = efficiently met requirement					Current Project Control		Millennium		MPM	
SRS	Requirement	Functional Area	Priority Mandatory, or Essential, or Desired	Weight Mandatory = 10 Essential = 8 Desirable = 1	Rank	Score	Rank	Score	Rank	Score
3.1.5.48	Ability to automatically access procurement data to determine EAC and should be sorted for active vs. inactive awaiting closeout.	Reporting	Desirable	1	2	2	0	0	0	0
3.1.5.49	Ability to convert prime dollars to labor hours.	Reporting	Desirable	1	2	2	1	1	3	3
Reporting Sub-Total					68	768	125	1047	129	1073
WEIGHT TOTAL:					968					
TOTAL POSSIBLE SCORE BASED WEIGHT AND RANK OF 3:					2904					
FUNCTIONAL AREA - PRODUCT TOTAL:					1895					
PRODUCT PERCENTAGE OF TOTAL POSSIBLE SCORE:					65%					
					83%					

5.4 WORK MANAGEMENT SCORE SHEET

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workaround; 2 = satisfactorily met requirement; 3 = efficiently met requirement												
Requirement		Functional Area	Priority Mandatory, Essential, or Desired	Weight Mandatory = 10 Essential = 8 Desirable = 1	JCS		JCS Rewrite		MAXIMO		CHAMPS	
SRS					Rank	Score	Rank	Score	Rank	Score	Rank	Score
3.2.1.1	Ability to link to lessons learned database.	Planning	Mandatory	10	0	0	3	30	3	30	3	30
3.2.1.2	Ability to correctly identify equipment item to be worked.	Planning	Mandatory	10	3	30	3	30	3	30	3	30
3.2.1.3	Ability to identify quality certified parts used in Work Order.	Planning	Mandatory	10	0	0	2	20	2	20	3	30
3.2.1.4	Ability to identify equipment related quality and safety designations.	Planning	Mandatory	10	2	20	2	20	3	30	3	30
3.2.1.5	Ability to identify work resources, quantities, and skill level required to complete the work.	Planning	Mandatory	10	3	30	2	20	2	20	2	20
3.2.1.6	Ability to include, or link to Unresolved Safety Question (USQ) information in work or safety plan.	Planning	Mandatory	10	3	30	3	30	3	30	3	30
3.2.1.7	Ability to identify and document environmental impacts in the work plan.	Planning	Mandatory	10	1	10	3	30	3	30	3	30
3.2.1.8	Ability to do periodic Preventative Maintenance (PM) based on calendar, hours of operation, or other periodic measures.	Planning	Mandatory	10	1	10	2	20	3	30	3	30
3.2.1.9	Ability to designate a grace period for PM's.	Planning	Mandatory	10	3	30	3	30	1	10	3	30
3.2.1.10	Ability to include safety related information in the Master Equipment List.	Planning	Mandatory	10	3	30	3	30	3	30	3	30
3.2.1.11	Ability to identify environmental information on equipment record.	Planning	Mandatory	10	3	30	3	30	3	30	3	30
3.2.1.12	Ability to identify special work approval requirements and/or work performance criteria related to specific equipment items.	Planning	Mandatory	10	3	30	3	30	3	30	3	30

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workaround; 2 = satisfactorily met requirement; 3 = efficiently met requirement												
SRS	Requirement	Functional Area	Priority Mandatory, or Essential, or Desired	Weight Mandatory = 10 Essential = 8 Desirable = 1	JCS		JCS Rewrite		MAXIMO		CHAMPS	
					Rank	Score	Rank	Score	Rank	Score	Rank	Score
3.2.1.13	Ability to tag equipment as safety related, including the appropriate safety designator.	Planning	Mandatory	10	3	30	3	30	3	30	3	30
3.2.1.14	Ability to group work packages to be worked during outages.	Planning	Mandatory	10	1	10	1	10	3	30	3	30
3.2.1.15	Ability to identify equipment related precautions, conditions, and limitations, either in the equipment database or through a linked document.	Planning	Essential	8	3	24	3	24	3	24	3	24
3.2.1.16	Ability to access training records and reference qualifications information.	Planning	Essential	8	0	0	2	16	3	24	3	24
3.2.1.17	Ability to track equipment history including PM, Predictive Maintenance, Mean Time Between Failure, downtime, and equipment breakdown data for trend analysis.	Planning	Essential	8	2	16	3	24	3	24	3	24
3.2.1.18	Ability to obtain information on rented equipment to identify responsible party for maintenance and inspection records.	Planning	Essential	8	3	24	3	24	2	16	3	24
3.2.1.19	Ability to handle alternate work flows such as routine work, planned work, enhanced work, planning work, etc.	Planning	Essential	8	2	16	3	24	3	24	3	24
3.2.1.20	Ability to include permit and safety information in the Work Order through a job hazard analysis, as a linked document, or part of the Work/Safety Plan	Planning	Essential	8	1	8	3	24	3	24	3	24
3.2.1.21	Ability to generate PMs to verify readiness for use on equipment that is used on an occasional basis.	Planning	Essential	8	3	24	3	24	3	24	3	24
3.2.1.22	Ability to track current equipment status.	Planning	Essential	8	2	16	3	24	3	24	2	16
3.2.1.23	Ability to track and analyze failures.	Planning	Essential	8	1	8	3	24	3	24	3	24

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workaround; 2 = satisfactorily met requirement; 3 = efficiently met requirement																
		JCS				JCS Rewrite				MAXIMO				CHAMPS		
SRS	Requirement	Functional Area	Priority Mandatory, or Essential, or Desired	Weight Mandatory = 10 Essential = 8 Desirable = 1	Rank	Score	Rank	Score	Rank	Score	Rank	Score	Rank	Score	Rank	Score
3.2.1.24	Ability to accept/create templates for work packages, such as standard requirements that end up in work documents.	Planning	Essential	8	2	16	3	24								
3.2.1.25	Ability to link to other documents and print as part of the work package.	Planning	Essential	8	0	0	3	24								
3.2.1.26	Ability to associate applicable versions of work plans to work orders.	Planning	Essential	8	3	24	3	24								
3.2.1.27	Ability to identify, track, and status parts required to perform work.	Planning	Desirable	1	2	2	2	2	3	3						
3.2.1.28	Ability to request or order parts required to perform work.	Planning	Desirable	1	0	0	1	1	1	1						
3.2.1.29	Ability to associate Work Order with Purchase Order when parts are ordered from vendor.	Planning	Desirable	1	2	2	3	3	1	1						
3.2.1.30	Ability to kit and/or stage materials for work, including location information.	Planning	Desirable	1	2	2	3	3	1	1						
3.2.1.31	Ability to modify PM work plans, safety plans, frequency, etc. and have this require the PM to be pre-approved prior to work performance, without impacting work orders that have been previously generated.	Planning	Desirable	1	3	3	3	3	3	3						
3.2.1.32	Ability to combine PMs with Corrective Maintenance.	Planning	Desirable	1	3	3	3	3	3	3						
3.2.1.33	Ability to set a flag that indicates equipment can or can not be used when PMs are overdue	Planning	Desirable	1	3	3	3	3	2	2						
3.2.1.34	Ability to document problems and resolutions encountered and relate them to failure codes, equipment types, package types, etc.	Planning	Desirable	1	0	0	3	3	1	1						

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workaround; 2 = satisfactorily met requirement; 3 = efficiently met requirement						JCS		JCS Rewrite		MAXIMO		CHAMPS	
SRS	Requirement	Functional Area	Priority Mandatory, or Essential, or Desired	Weight Mandatory = 10 Essential = 8 Desirable = 1	Rank	Score	Rank	Score	Rank	Score	Rank	Score	Rank
3.2.1.35	Ability to access the chemical management systems and scanned Material Safety Data Sheets information.	Planning	Desirable	1	0	0	0	3	3	3	3	3	3
3.2.1.36	Ability to track approved Bill of Materials for an equipment item.	Planning	Desirable	1	0	0	0	1	1	1	1	3	3
3.2.1.37	Ability to associate inspection plan with catalog identifier and quality level.	Planning	Desirable	1	1	1	1	3	3	1	1	2	2
3.2.1.38	Ability to track costs associated with regulated units.	Planning	Desirable	1	1	1	1	1	1	1	1	3	3
3.2.1.39	Ability to collect condition based monitoring data for predictive and corrective maintenance.	Planning	Desirable	1	0	0	0	2	2	2	2	2	2
Planning Sub-Total					68	483	102	671	92	651	110	717	
3.2.2.1	Ability to generate schedules or upload to P3.	Scheduling	Mandatory	10	3	30	3	30	3	30	1	10	
3.2.2.2	Ability to receive or download resource loaded schedule from P3.	Scheduling	Mandatory	10	0	0	0	3	30	30	0	0	
3.2.2.3	Ability to adjust schedule inside of CMMS or P3, based on resource-loaded schedule or current resource limitations and synchronize work control activities and schedules.	Scheduling	Mandatory	10	0	0	0	3	30	30	0	0	
3.2.2.4	Ability to forecast PM's, minimum one month, prefer one year.	Scheduling	Mandatory	10	3	30	3	30	3	30	3	30	
3.2.2.5	Ability to "schedule" equipment/system/facility outages within the CMMS.	Scheduling	Mandatory	10	2	20	2	20	3	30	2	20	
3.2.2.6	Ability to verify next due date.	Scheduling	Mandatory	10	3	30	3	30	3	30	3	30	
3.2.2.7	Ability to include lead time for PMs for scheduling purposes.	Scheduling	Mandatory	10	2	20	2	20	3	30	2	20	

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workaround; 2 = satisfactorily met requirement; 3 = efficiently met requirement												
SRS	Requirement	Functional Area	Priority Mandatory, Essential, or Desired	Weight Mandatory = 10 Essential = 8 Desirable = 1	JCS		JCS Rewrite		MAXIMO		CHAMPS	
					Rank	Score	Rank	Score	Rank	Score	Rank	Score
3.2.2.8	Ability to schedule forecasted PM activities without writing a work order.	Scheduling	Desirable	1	1	1	2	2	3	3	2	2
3.2.2.9	Ability to trigger PM based on automated or manual readings.	Scheduling	Desirable	1	1	1	2	2	3	3	3	3
Scheduling Sub-Total					15	132	23	194	27	216	16	116
3.2.3.1	Ability to track performance indicators such as costs, overdue work, plan vs. actual labor, numbers of packages performed for each type, and backlogs.	Work Performance	Mandatory	10	2	20	2	20	3	30	3	30
3.2.3.2	Ability to identify lock out conditions for equipment item worked on and other equipment that is part of the equipment train as part of the Work or Safety Plan.	Work Performance	Mandatory	10	3	30	3	30	3	30	3	30
3.2.3.3	Ability to generate tags for tag out.	Work Performance	Mandatory	10	0	0	1	10	1	10	3	30
3.2.3.4	Ability to notify operations that work has been completed so lock out can be lifted.	Work Performance	Mandatory	10	3	30	3	30	3	30	3	30
3.2.3.5	Ability to modify Work Plan while the work order is being worked.	Work Performance	Mandatory	10	3	30	3	30	3	30	3	30
3.2.3.6	Ability to return equipment operation after satisfactory operational test.	Work Performance	Mandatory	10	3	30	3	30	3	30	3	30
3.2.3.7	Ability to notify appropriate personnel of unsatisfactory test and track corrective work.	Work Performance	Mandatory	10	2	20	3	30	3	30	3	30
3.2.3.8	Ability to include or link to personnel training, employee qualification, and information systems as needed.	Work Performance	Desirable	1	1	1	3	3	3	3	3	3

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workaround; 2 = satisfactorily met requirement; 3 = efficiently met requirement													
SRS		Requirement	Functional Area	Priority Mandatory, Essential, or Desired	Weight Mandatory = 10 Essential = 8 Desirable = 1	JCS		JCS Rewrite		MAXIMO		CHAMPS	
						Rank	Score	Rank	Score	Rank	Score	Rank	Score
3.2.3.9		Ability to link Occurrence Reports to equipment items and work orders by launching and retrieving lessons learned.	Work Performance	Desirable	1	1	1	3	3	3	3	3	3
			Work Performance Sub-Total			13	162	24	186	25	196	27	216
3.2.4.1		Must support, at a minimum, 100 concurrent users.	Work Control	Mandatory	10	3	30	3	30	3	30	3	30
3.2.4.2		Ability to document lessons learned references.	Work Control	Mandatory	10	3	30	3	30	3	30	3	30
3.2.4.3		Ability to identify and reference hazards and safety plans including personal protective equipment by accessing job hazard system(s) or documenting in work plan.	Work Control	Mandatory	10	2	20	3	30	3	30	2	20
3.2.4.4		Ability to identify work status, cause, and release authorization.	Work Control	Mandatory	10	2	20	3	30	3	30	2	20
3.2.4.5		Ability to archive and retrieve work documents after they are closed.	Work Control	Mandatory	10	3	30	3	30	3	30	3	30
3.2.4.6		Ability to link to or reference procedures in work plans.	Work Control	Mandatory	10	2	20	3	30	3	30	3	30
3.2.4.7		Ability to build and maintain Master Equipment List including equipment hierarchy from structures, systems, and components to allow equipment relationships and associated attributes to be easily identified.	Work Control	Mandatory	10	3	30	3	30	3	30	3	30
3.2.4.8		Ability to track maintenance backlog and performance metrics.	Work Control	Mandatory	10	2	20	3	30	3	30	3	30
3.2.4.9		Ability to establish work flows that allow the user to establish the work processes.	Work Control	Mandatory	10	0	0	1	10	3	30	3	30
3.2.4.10		Ability to screen work request for need, funding, duplication, priority, work type, facility mission, and resource availability	Work Control	Mandatory	10	3	30	3	30	3	30	2	20

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SRS	Requirement	Functional Area	Priority Mandatory, Essential, or Desired	Weight Mandatory = 10 Essential = 8 Desirable = 1	Rank	Score	Rank	Score	Rank	Score	Rank	Score	Rank	Score
	resource availability.													
3.2.4.11	Ability to assign priorities to work.	Work Control	Mandatory	10	3	30	3	30	3	30	3	30	3	30
3.2.4.12	Ability to identify who has reviewed and approved each step in Work Flow requiring approval.	Work Control	Mandatory	10	3	30	3	30	3	30	3	30	3	30
3.2.4.13	Ability to document work and test results.	Work Control	Mandatory	10	3	30	3	30	3	30	3	30	3	30
3.2.4.14	Ability to track labor hours spent on all phases of the work order.	Work Control	Mandatory	10	3	30	3	30	3	30	3	30	2	20
3.2.4.15	Ability to track non-labor and/or contract costs associated with work orders.	Work Control	Mandatory	10	3	30	3	30	3	30	3	30	3	30
3.2.4.16	Ability to approve post maintenance tests.	Work Control	Mandatory	10	3	30	3	30	3	30	3	30	3	30
3.2.4.17	Ability to document maintenance test results.	Work Control	Mandatory	10	3	30	3	30	3	30	3	30	3	30
3.2.4.18	Ability to track repair/PM status.	Work Control	Mandatory	10	3	30	3	30	3	30	3	30	3	30
3.2.4.19	Ability to track work packages as on time, within a grace period, or late.	Work Control	Mandatory	10	3	30	3	30	3	30	2	20	2	20
3.2.4.20	Ability to document measuring and testing equipment used, including identification number, expiration dates, and tolerance.	Work Control	Mandatory	10	2	20	3	30	3	30	2	20	2	20
3.2.4.21	Ability to interface with financial and budget systems.	Work Control	Essential	8	0	0	2	16	2	16	1	8	1	8
3.2.4.22	Ability to relate Work Package to WBS element and associated accounting information.	Work Control	Essential	8	2	16	3	24	2	16	2	16	1	8
3.2.4.23	Ability to allow non-CHG personnel access to the system to plan and document work.	Work Control	Essential	8	3	24	3	24	3	24	3	24	3	24

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		JCS		JCS Rewrite		MAXIMO		CHAMPS				
SRS	Requirement	Functional Area	Priority Mandatory, Essential, or Desired	Weight Mandatory = 10 Essential =8 Desirable = 1	Rank	Score	Rank	Score	Rank	Score	Rank	Score
3.2.4.24	Ability to access an unsecured version of the work request, preferably over the intranet.	Work Control	Essential	8	2	16	3	24			2	16
3.2.4.25	Ability to enter required data, including description; identification of item being reported, and background information.	Work Control	Essential	8	3	24	3	24			3	24
3.2.4.26	Ability to notify requestor if the request is cancelled or completed.	Work Control	Essential	8	0	0	3	24			2	16
3.2.4.27	Ability to automatically record results, identifier, date, and time, at each step of the Work Flow.	Work Control	Essential	8	1	8	3	24			2	16
3.2.4.28	Ability to partially release a work order by releasing individual tasks.	Work Control	Essential	1	3	3	3	3			3	3
3.2.4.29	Ability to document previously unidentified hazards in the work order and flag if its been updated in job hazard system.	Work Control	Desirable	1	2	2	2	2			2	2
3.2.4.30	Ability to document reasons for PM delinquency.	Work Control	Desirable	1	2	2	2	2			2	2
Work Control Sub-Total					70	615	85	747	82	730	75	659
WEIGHT TOTAL:												
TOTAL POSSIBLE SCORE BASED WEIGHT AND RANK OF 3:					1956							
FUNCTIONAL AREA - PRODUCT TOTAL:						1392		1798		1793		1707
PRODUCT PERCENTAGE OF TOTAL POSSIBLE SCORE:						71%		92%		92%		87%

5.5 ACTION TRACKING SCORE SHEET

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workaround; 2 = satisfactorily met requirement; 3 = efficiently met requirement						MAXIMO		PassPort		HATS		CATSweb		Empl Sugg Web	
SRS Mapping Requirement	Functional Area	Priority Mandatory, or Desired	Weight Mandatory = 10 Essential = 8 Desirable = 1	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score
3.3.1.1	Must support, at a minimum, 20 concurrent users.	Mandatory	10	3	30	3	30	3	30	3	30	3	30	3	30
3.3.1.2	Ability to apply dependencies on components within an action, such as an action cannot be closed until all assignments and sub-actions are complete.	Mandatory	10	2	20	1	10	2	20	1	10	3	30	3	30
3.3.1.3	Ability to archive completed Action Requests including cancelled or rejected.	Mandatory	10	3	30	0	0	3	30	1	10	3	30	3	30
3.3.1.4	Ability to split assignments into sub-actions.	Mandatory	10	3	30	3	30	2	20	2	20	3	30	3	30
3.3.1.5	Ability to automatically distribute reports.	Mandatory	10	3	30	1	10	3	30	1	10	3	30	3	30
3.3.1.6	Ability to tailor on-line forms to meet site standards.	Mandatory	10	1	10	0	0	2	20	1	10	2	20	2	20
3.3.1.7	Ability for the application to set and validate due dates for normal workdays, including working Fridays versus Fridays off, holidays, etc.	Essential	8	3	24	2	16	3	24	1	8	2	16	2	16
3.3.1.8	Ability to associate one to many documents to the action, assignment, or sub-action.	Essential	8	3	24	2	16	3	24	1	8	3	24	3	24
3.3.1.9	Ability to assign actions, assignments or sub-actions different due dates.	Essential	8	3	24	2	16	3	24	3	24	3	24	3	24

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SRS Mapping Requirement	Functional Area	Priority Mandatory, Essential, or Desired	Weight Mandatory = 10 Essential = 8 Desirable = 1	MAXIMO		PassPort		HATS		CATSwab		Empl Sugg Web		
				Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score		
3.3.1.10	Ability to have indicator showing the last assignment has been completed for an action...	General Use Action Tracking	Essential	8	1	8	2	16	3	24	1	8	3	24
3.3.1.11	Ability to have unlimited text entry for text boxes/entries.	General Use Action Tracking	Essential	8	3	24	2	16	3	24	1	8	3	24
3.3.1.12	Ability to save a record even when the action is rejected.	General Use Action Tracking	Essential	8	2	16	2	16	3	24	2	16	2	16
3.3.1.13	Ability to select required fields for sub-actions.	General Use Action Tracking	Essential	8	3	24	3	24	3	24	2	16	3	24
3.3.1.14	Ability for the status date to be automatically assigned when the status changes.	General Use Action Tracking	Essential	8	3	24	0	0	3	24	3	24	3	24
3.3.1.15	Ability to tie actions to schedule activity or work package.	General Use Action Tracking	Desirable	1	3	3	0	0	3	3	1	1	3	3
3.3.1.16	Ability for text wrap.	General Use Action Tracking	Desirable	1	3	3	1	1	3	3	3	3	3	3
3.3.1.17	Ability to automate the approvals based on security level and authorization dependency, whether it is an individual or group.	General Use Action Tracking	Desirable	1	3	3	2	2	3	3	2	2	3	3
3.3.1.18	Ability to be launched from a web home page.	General Use Action Tracking	Desirable	1	3	3	0	0	3	3	3	3	3	3
3.3.1.19	Ability to clone or copy elements of an action, with modification capability.	General Use Action Tracking	Desirable	1	3	3	2	2	2	2	1	1	3	3

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SRS Mapping	Requirement	Functional Area	Priority Mandatory, or Essential, or Desired	Weight Mandatory = 10 Essential =8 Desirable = 1	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score
3.3.1.20	Ability to display retrieved data in an easy format for user selection such as drop-down lists.	General Use Action Tracking	Desirable	1	3	3	2	2	3	3	3
3.3.1.21	Ability to have recurrence feature for actions, assignments, approvals, etc., such as resending an action out for re-approval because of changes, or a 'completed' action is assigned again because the completion was not adequate.	General Use Action Tracking	Desirable	1	3	3	1	1	3	3	2
3.3.1.22	Ability to turn notification on/off.	General Use Action Tracking	Desirable	1	2	2	3	3	3	2	3
3.3.1.23	Ability to spell check text entries.	General Use Action Tracking	Desirable	1	3	3	0	0	3	3	0
		General Use Action Tracking Sub-Total		133	62	344	34	211	65	368	62
3.3.2.1	Must support, at a minimum, 20 concurrent users.	Deficiency	Mandatory	10	3	30	3	30	3	30	30
3.3.2.2	Ability to input and/or retrieve, capture, display, record, modify, track, trend, query and report on the defined data in Appendix A, based on user security level and dependencies.	Deficiency	Mandatory	10	1	10	1	10	3	30	10
3.3.2.3	Ability for on-line tracking and/or auditing of Action Requests based on user-defined selection criteria with <u>notification capability</u> .	Deficiency	Mandatory	10	3	30	2	20	2	20	10
3.3.2.4	Ability to apply one to many Event Codes to an Action Request.	Deficiency	Mandatory	10	3	30	1	10	3	30	20

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SRS Mapping	Requirement	Functional Area	Priority Mandatory, Essential, or Desired	Weight Mandatory = 10 Essential =8 Desirable = 1	MAXIMO		PassPort		HATS		CATSweb		Empl Sugg Web
					Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score
3.3.2.5	Ability to easily interface with other systems based on site standards.	Deficiency	Mandatory	10	3	30	1	10	3	30	1	10	
3.3.2.6	Ability to keep complete history of data input and subsequent changes.	Deficiency	Mandatory	10	3	30	0	0	2	20	3	30	
3.3.2.7	Ability to link to and print source documents for Action Requests, Assignments or Sub-Assignment.	Deficiency	Mandatory	10	3	30	3	30	3	30	1	10	
3.3.2.8	Ability to perform on-line trend analysis.	Deficiency	Mandatory	10	3	30	0	0	1	10	1	10	
3.3.2.9	Ability to provide an audit of changes, such as User Identifier of who made each change and what they changed.	Deficiency	Mandatory	10	2	20	1	10	3	30	3	30	
3.3.2.10	Ability to associate deficiency/action request to other disciplines and/or activities in a facility and other facilities within the company.	Deficiency	Essential	10	1	10	3	30	2	20	1	10	
3.3.2.11	Ability to automatically report and send notification for new deficiencies to appropriate groups or personnel within contractually defined time periods.	Deficiency	Essential	10	3	30	2	20	3	30	3	30	
3.3.2.12	Ability to automatically set Date Due based on a defined time period as defined by Quality Assurance requirements and/or business rules.	Deficiency	Essential	10	2	20	0	0	3	30	1	10	
3.3.2.13	Ability to modify the defined time period for Due Date based on QA requirements and/or business rule changes.	Deficiency	Essential	10	3	30	0	0	3	30	1	10	
3.3.2.14	Ability to print on-line tracking and auditing results.	Deficiency	Essential	10	3	30	1	10	3	30	1	10	

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workaround; 2 = satisfactorily met requirement; 3 = efficiently met requirement													
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				Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score
3.3.2.15	Ability to retrieve and display data wherever possible to assist in deficiency resolution, minimize duplicated entry and reduce human error.	Essential	10	1	10	3	30	2	20	1	10		
3.3.2.16	Ability to create forms and save to the database.	Desirable	10	1	10	0	0	2	20	3	30		
3.3.2.17	Ability to set user-defined parameters for tracking, auditing, querying and reporting functions.	Desirable	10	3	30	3	30	3	30	1	10		
Appendix A	Verification Form Data	Mandatory	10	3	30	3	30	3	30	2	20		
Appendix A	Verification Completion Date	Mandatory	10	3	30	3	30	3	30	2	20		
Appendix A	Validation Form Data	Mandatory	10	3	30	3	30	3	30	2	20		
Appendix A	Validation Completion Date	Mandatory	10	3	30	3	30	3	30	3	30		
Appendix A	User ID of individual entering or making change	Mandatory	10	3	30	0	0	3	30	2	20		
Appendix A	User ID	Mandatory	10	3	30	3	30	3	30	2	20		
Appendix A	Stop Work Date	Mandatory	10	3	30	0	0	3	30	2	20		
Appendix A	Screened by Name	Mandatory	10	3	30	0	0	3	30	2	20		
Appendix A	Screen Date	Mandatory	10	3	30	0	0	3	30	2	20		
Appendix A	Root Cause Description	Mandatory	10	3	30	3	30	3	30	2	20		
Appendix A	Root Cause Code	Mandatory	10	3	30	3	30	3	30	2	20		
Appendix A	Risk Rank Value Justification	Mandatory	10	3	30	3	30	3	30	3	30		
Appendix A	Risk Rank Value	Mandatory	10	3	30	3	30	3	30	2	20		
Appendix A	Owed to Group	Mandatory	10	3	30	3	30	3	30	3	30		
Appendix A	Law Violated	Mandatory	10	3	30	3	30	3	30	3	30		
Appendix A	Initiating Document Status	Mandatory	10	3	30	3	30	3	30	3	30		

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SRS Mapping	Requirement	Functional Area	Priority Mandatory, or Essential, or Desired	Weight Mandatory = 10 Essential =8 Desirable = 1	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score
Appendix A	Initiating Document Date	Deficiency	Mandatory	10	3	30	3	30	3	30	3	30	3	30	3	30
Appendix A	Event Code	Deficiency	Mandatory	10	3	30	3	30	3	30	3	30	3	30	2	20
Appendix A	Document Type	Deficiency	Mandatory	10	3	30	3	30	3	30	3	30	3	30	2	20
Appendix A	Document Title	Deficiency	Mandatory	10	3	30	3	30	3	30	3	30	3	30	3	30
Appendix A	Document Number	Deficiency	Mandatory	10	3	30	3	30	3	30	3	30	3	30	2	20
Appendix A	Direct Cause Description	Deficiency	Mandatory	10	3	30	3	30	3	30	3	30	3	30	2	20
Appendix A	Direct Cause Code	Deficiency	Mandatory	10	3	30	3	30	3	30	3	30	3	30	2	20
Appendix A	Deficiency Title	Deficiency	Mandatory	10	3	30	3	30	3	30	3	30	3	30	3	30
Appendix A	Deficiency Number	Deficiency	Mandatory	10	3	30	3	30	3	30	3	30	3	30	2	20
Appendix A	Correspondence Records	Deficiency	Mandatory	10	3	30	3	30	3	30	3	30	3	30	2	20
Appendix A	Corrective Action Type	Deficiency	Mandatory	10	3	30	3	30	3	30	3	30	3	30	2	20
Appendix A	Corrective Action Plan	Deficiency	Mandatory	10	3	30	3	30	3	30	3	30	3	30	3	30
Appendix A	Condition Evaluation Date	Deficiency	Mandatory	10	3	30	3	30	3	30	3	30	3	30	2	20
Appendix A	Closure Notes	Deficiency	Mandatory	10	3	30	3	30	3	30	3	30	3	30	3	30
Appendix A	Assignment Subject	Deficiency	Mandatory	10	3	30	3	30	3	30	3	30	3	30	3	30
Appendix A	Assignment Status	Deficiency	Mandatory	10	3	30	3	30	3	30	3	30	3	30	3	30
Appendix A	Assignment Responsible Group	Deficiency	Mandatory	10	3	30	3	30	3	30	3	30	3	30	3	30
Appendix A	Assignment Number	Deficiency	Mandatory	10	3	30	3	30	3	30	3	30	3	30	2	20
Appendix A	Assignment Note Description	Deficiency	Mandatory	10	3	30	3	30	3	30	3	30	3	30	3	30
Appendix A	Assignment Estimated Complete Date	Deficiency	Mandatory	10	3	30	3	30	0	0	3	30	3	30	3	30
Appendix A	Assignment Due Date	Deficiency	Mandatory	10	3	30	3	30	3	30	3	30	3	30	3	30
Appendix A	Assignment Disposition	Deficiency	Mandatory	10	3	30	3	30	3	30	3	30	3	30	3	30
Appendix A	Assignment Description	Deficiency	Mandatory	10	3	30	3	30	3	30	3	30	3	30	3	30

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SRS Mapping	Requirement	Functional Area	Priority Mandatory, or Essential, or Desired	Weight Mandatory = 10 Essential =8 Desirable = 1	Rank Score	Rank Score	Rank Score	Rank Score
Appendix A	Assignment Complete Date	Deficiency	Mandatory	10	3	30	3	30
Appendix A	Assignment Actionee	Deficiency	Mandatory	10	3	30	3	30
Appendix A	Action Request Unique ID	Deficiency	Mandatory	10	3	30	3	30
Appendix A	Action Request Type	Deficiency	Mandatory	10	3	30	3	30
Appendix A	Action Request Title	Deficiency	Mandatory	10	3	30	3	30
Appendix A	Action Request Status Date	Deficiency	Mandatory	10	3	30	3	30
Appendix A	Action Request Status	Deficiency	Mandatory	10	3	30	3	30
Appendix A	Action Request Originator	Deficiency	Mandatory	10	3	30	3	30
Appendix A	Action Request Notes	Deficiency	Mandatory	10	3	30	3	30
Appendix A	Action Request Keywords	Deficiency	Mandatory	10	3	30	3	30
Appendix A	Action Request Due Date	Deficiency	Mandatory	10	3	30	3	30
Appendix A	Action Request Disposition Date	Deficiency	Mandatory	10	3	30	3	30
Appendix A	Action Request Disposition	Deficiency	Mandatory	10	3	30	3	30
Appendix A	Action Request Category	Deficiency	Mandatory	10	3	30	3	30
Appendix A	Action - Planned Completion Date	Deficiency	Mandatory	10	3	30	3	30
Appendix A	Action - Actual Completion Date	Deficiency	Mandatory	10	3	30	3	30
Appendix A	Sub-Assignment Status	Deficiency	Essential	8	3	24	0	0
Appendix A	Sub-Assignment Responsible Group	Deficiency	Essential	8	3	24	0	0
Appendix A	Sub-Assignment Progress Notes	Deficiency	Essential	8	3	24	0	0
Appendix A	Sub-Assignment Parent	Deficiency	Essential	8	3	24	0	0
Appendix A	Sub-Assignment Number	Deficiency	Essential	8	3	24	0	0
Appendix A	Sub-Assignment Note Type	Deficiency	Essential	8	3	24	0	0
Appendix A	Sub-Assignment Note Description	Deficiency	Essential	8	3	24	0	0

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workload; 2 = satisfactorily met requirement; 3 = efficiently met requirement					MAXIMO	PassPort	HATS	CATSweb	Empl Sugg Web
SRS Mapping	Requirement	Functional Area	Priority Mandatory, or Essential, or Desired	Weight Mandatory = 10 Essential =8 Desirable = 1	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score
Appendix A	Sub-Assignment Estimated Complete Date	Deficiency	Essential	8	3	24	0	3	24
Appendix A	Sub-Assignment Due Date	Deficiency	Essential	8	3	24	0	3	24
Appendix A	Sub-Assignment Disposition	Deficiency	Essential	8	3	24	0	3	24
Appendix A	Sub-Assignment Description	Deficiency	Essential	8	3	24	0	3	24
Appendix A	Sub-Assignment Complete Date	Deficiency	Essential	8	3	24	0	3	24
Appendix A	Sub-Assignment Actionee	Deficiency	Essential	8	3	24	0	3	24
Appendix A	Stop Work Notes	Deficiency	Essential	8	3	24	0	3	24
Appendix A	Stop Work Decision	Deficiency	Essential	8	3	24	0	3	24
Appendix A	Safety Class	Deficiency	Essential	8	3	24	3	24	2
Appendix A	Root Cause Note	Deficiency	Essential	8	3	24	3	24	2
Appendix A	Restart Prerequisites	Deficiency	Essential	8	3	24	0	3	24
Appendix A	Restart Date	Deficiency	Essential	8	3	24	0	3	24
Appendix A	Restart Authorized By	Deficiency	Essential	8	3	24	0	3	24
Appendix A	Reference Type	Deficiency	Essential	8	3	24	3	24	2
Appendix A	Reference ID	Deficiency	Essential	8	3	24	3	24	2
Appendix A	Owed to Group Disposition	Deficiency	Essential	8	3	24	3	24	3
Appendix A	Notes Description	Deficiency	Essential	8	3	24	3	24	3
Appendix A	Notes Category	Deficiency	Essential	8	3	24	0	3	24
Appendix A	Lessons Learned Number	Deficiency	Essential	8	3	24	2	16	3
Appendix A	Lessons Learned Applicability	Deficiency	Essential	8	3	24	2	16	3
Appendix A	Lessons Learned	Deficiency	Essential	8	3	24	2	16	3
Appendix A	Initiating Document POC	Deficiency	Essential	8	3	24	2	16	3
Appendix A	Initiating Document Originator	Deficiency	Essential	8	3	24	2	16	3

[illegible]

SRS Mapping Requirement		Functional Area	Priority Mandatory, Essential, or Desired	Weight Mandatory = 10 Essential = 8 Desirable = 1	RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workaround; 2 = satisfactorily met requirement; 3 = efficiently met requirement									
					MAXIMO		PassPort		HATS		CATSweb		Empl Sugg Web	
					Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score
Deficiency Sub-Total					1116	365	3248	257	2341	358	3278	296	2648	
3.3.3.1	Must support, at a minimum, 20 concurrent users.	Employee Suggestions	Mandatory	10	3	30	3	30					3	30
3.3.3.2	Ability to input and/or retrieve, capture, display, record, modify, track, trend, query and report on the defined data in Appendix A, based on user security level and dependencies.	Employee Suggestions	Essential	8	2	16	1	8					3	24
3.3.3.3	Ability to identify CHG Employee Suggestions from other business functions if using a shared system.	Employee Suggestions	Mandatory	10	3	30	2	20					2	20
3.3.3.4	Ability to archive implemented Employee Suggestions > 2 years old.	Employee Suggestions	Essential	8	2	16	0	0					2	16
3.3.3.5	Ability for Administrator to add, modify or delete advocates, champions, organization names, organization codes, or status types.	Employee Suggestions	Essential	8	3	24	1	8					3	24
3.3.3.6	Ability for Administrator to modify automatically assigned Due Date time period.	Employee Suggestions	Essential	8	3	24	2	16					3	24
3.3.3.7	Ability to select or modify Disposition Employee Suggestion.	Employee Suggestions	Essential	8	3	24	2	16					3	24
3.3.3.8	Ability for Advocates/Champions to make one to many Assignments with independent Status and Status Dates.	Employee Suggestions	Essential	8	3	24	2	16					3	24
3.3.3.9	Provide email capability to submit, receipt, forward, notify, assign, review, appeal, track, etc	Employee Suggestions	Essential	8	2	16	1	8					2	16

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workaround; 2 = satisfactorily met requirement; 3 = efficiently met requirement														
SRS Mapping	Requirement	Functional Area	Priority Mandatory, or Essential, or Desired	Weight Mandatory = 10 Essential =8 Desirable = 1	MAXIMO		PassPort		HATS		CATSweb		Empl Sugg Web	
					Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score
3.3.3.10	Ability for Employee Suggestion to be Appealed.	Employee Suggestions	Essential	8	2	16	2	16					3	24
3.3.3.11	Ability for Suggester to query status of Employee Suggestion(s) submitted.	Employee Suggestions	Essential	8	3	24	1	8					3	24
3.3.3.12	Ability for Suggester, or for those individuals unable to electronically submit suggestions allow other designated personnel, to electronically enter and submit Employee Suggestion.	Employee Suggestions	Essential	8	3	24	2	16					3	24
3.3.3.13	Ability for the Advocate to accept, reject or reassign an Employee Suggestion if it was assigned to the wrong advocate/organization.	Employee Suggestions	Essential	8	3	24	1	8					3	24
3.3.3.14	Ability for the Advocate to modify the Due Date.	Employee Suggestions	Essential	8	3	24	2	16					3	24
3.3.3.15	Ability for submitted Employee Suggestions to be automatically assigned a unique identifier and saved to the database.	Employee Suggestions	Essential	8	3	24	2	16					3	24
3.3.3.16	Ability for the Advocate to validate or accept submitted Employee Suggestions.	Employee Suggestions	Essential	8	3	24	3	24					3	24
3.3.3.17	Ability to apply monetary awards to Employee Suggestions regardless of status.	Employee Suggestions	Essential	8	2	16	2	16					3	24
3.3.3.18	Ability to assign a unique identifier to each Employee Suggestion.	Employee Suggestions	Essential	8	3	24	3	24					3	24
3.3.3.19	Ability to associate the organization the Employee Suggestion belongs to.	Employee Suggestions	Essential	8	1	8	1	8					2	16

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workaround; 2 = satisfactorily met requirement; 3 = efficiently met requirement													
SRS Mapping Requirement	Functional Area	Priority Mandatory, Essential, or Desired	Weight Mandatory = 10 Essential = 8 Desirable = 1	MAXIMO		PassPort		HATS		CATSweb		Empl Sugg Web	
				Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	
3.3.3.20	Ability to automatically assign a due date based on a set time period from the date the Employee Suggestion was received.	Essential	8	2	16	0	0					3	24
3.3.3.21	Ability to carry over Employee Suggestions from year to year, such as suggestions waiting for funding to implement and/or for budget planning.	Essential	8	2	16	2	16					3	24
3.3.3.22	Ability to identify the appropriate Advocate based on the organization the Employee Suggestion is associated with.	Essential	8	1	8	1	8					3	24
3.3.3.23	Ability to modify Status of Employee Suggestion.	Essential	8	3	24	3	24					3	24
3.3.3.24	Ability to identify Primary and Backup Advocates.	Essential	8	3	24	1	8					3	24
3.3.3.25	Ability to provide history of changes to the Employee Suggestion, cannot be overwritten.	Essential	8	2	16	0	0					3	24
3.3.3.26	Ability to randomly select Suggester or Advocate of Employee Suggestion for award, monthly and annually, with user defined conditions.	Essential	8	0	0	0	0					2	16
3.3.3.27	Ability to reassign Advocates or Champions.	Essential	8	3	24	2	16					3	24
3.3.3.28	Ability to run reports based on user defined time period such as the last running 12 months or monthly spread by Calendar Year.	Essential	8	3	24	1	8					1	8
3.3.3.29	Ability to search/query on keywords.	Essential	8	2	16	2	16					2	16

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workaround; 2 = satisfactorily met requirement; 3 = efficiently met requirement																			
SRS Mapping Requirement	Functional Area	Priority Mandatory, Essential, or Desired	Weight Mandatory = 10 Essential =8 Desirable = 1	MAXIMO			PassPort			HATS			CATSwab			Empl Sugg Web			
				Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score		
3.3.3.30	Ability to status Received versus Assigned Employee Suggestions.	Employee Suggestions	Essential	8	2	16	2	16										3	24
3.3.3.31	Ability to track Employee Suggestions until archived.	Employee Suggestions	Essential	8	3	24			1	8								3	24
3.3.3.32	Ability to validate appropriate Employee Suggestion and Suggester Information is recorded before Employee Suggestion can be Closed.	Employee Suggestions	Essential	8	2	16			2	16								3	24
3.3.3.33	Provide a front end that people typically use every day, such as Outlook or the Web.	Employee Suggestions	Essential	8	0	0			1	8								3	24
3.3.3.34	Ability to prevent Suggesters from modifying the Employee Suggestion after it has been validated.	Employee Suggestions	Essential	8	3	24			2	16								3	24
3.3.3.35	Ability for Reports to have charting capability.	Employee Suggestions	Desirable	1	1	1			1	1								2	2
Appendix A	Advocate Backup	Employee Suggestions	Essential	8	3	24			3	24								3	24
Appendix A	Advocate Backup User ID	Employee Suggestions	Essential	8	3	24			3	24								3	24
Appendix A	Advocate Backup Organization	Employee Suggestions	Essential	8	3	24			3	24								3	24
Appendix A	Advocate User ID	Employee Suggestions	Essential	8	3	24			3	24								3	24
Appendix A	Advocate Name	Employee Suggestions	Essential	8	3	24			3	24								3	24

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workaround; 2 = satisfactorily met requirement; 3 = efficiently met requirement														
SRS Mapping	Requirement	Functional Area	Priority Mandatory, or Essential, or Desired	Weight Mandatory = 10 Essential =8 Desirable = 1	MAXIMO		PassPort		HATS		CATSweb		Empl Sugg Web	
					Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	
Appendix A	Advocate Organization	Employee Suggestions	Essential	8	3	24	3	24					3	24
Appendix A	Champion Name	Employee Suggestions	Essential	8	3	24	3	24					3	24
Appendix A	Champion User ID	Employee Suggestions	Essential	8	3	24	3	24					3	24
Appendix A	Employee Suggestion - Current Situation	Employee Suggestions	Essential	8	3	24	3	24					3	24
Appendix A	Employee Suggestion - Expected Result	Employee Suggestions	Essential	8	3	24	3	24					3	24
Appendix A	Employee Suggestion - Possible Implementation	Employee Suggestions	Essential	8	3	24	3	24					3	24
Appendix A	Employee Suggestion - Suggestion	Employee Suggestions	Essential	8	3	24	3	24					3	24
Appendix A	Employee Suggestion Appeal(s)	Employee Suggestions	Essential	8	3	24	3	24					3	24
Appendix A	Employee Suggestion Assignment	Employee Suggestions	Essential	8	3	24	3	24					3	24
Appendix A	Employee Suggestion Assignment Date	Employee Suggestions	Essential	8	3	24	3	24					3	24
Appendix A	Employee Suggestion Assignment Status	Employee Suggestions	Essential	8	3	24	3	24					3	24
Appendix A	Employee Suggestion Award Date (Status Date?)	Employee Suggestions	Essential	8	3	24	3	24					3	24

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workarounds; 2 = satisfactorily met requirement; 3 = efficiently met requirement						MAXIMO		PassPort		HATS		CATSweb		Empl Sugg Web	
SRS Mapping Requirement	Functional Area	Priority Mandatory, or Essential, or Desired	Weight Mandatory = 10 Essential =8 Desirable = 1	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score
Appendix A	Employee Suggestion Award Received	Employee Suggestions	Essential	8	3	24	3	24	3	24				3	24
Appendix A	Employee Suggestion Award Type	Employee Suggestions	Essential	8	3	24	3	24	3	24				3	24
Appendix A	Employee Suggestion Certificate Issue Date (Status Date?)	Employee Suggestions	Essential	8	3	24	3	24	3	24				3	24
Appendix A	Employee Suggestion Cost Savings (ROI)	Employee Suggestions	Essential	8	3	24	3	24	3	24				3	24
Appendix A	Employee Suggestion Disposition	Employee Suggestions	Essential	8	3	24	3	24	3	24				3	24
Appendix A	Employee Suggestion Due Date	Employee Suggestions	Essential	8	3	24	3	24	3	24				3	24
Appendix A	Employee Suggestion Implementation Date (Status Date?)	Employee Suggestions	Essential	8	3	24	3	24	3	24				3	24
Appendix A	Employee Suggestion Notes	Employee Suggestions	Essential	8	3	24	3	24	3	24				3	24
Appendix A	Employee Suggestion Received Date	Employee Suggestions	Essential	8	3	24	3	24	3	24				3	24
Appendix A	Employee Suggestion Risk Assessment Completed Y/N	Employee Suggestions	Essential	8	3	24	3	24	3	24				3	24
Appendix A	Employee Suggestion Status	Employee Suggestions	Essential	8	3	24	3	24	3	24				3	24
Appendix A	Employee Suggestion Status Date	Employee Suggestions	Essential	8	3	24	3	24	3	24				3	24

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workaround; 2 = satisfactorily met requirement; 3 = efficiently met requirement									
SRS Mapping Requirement	Functional Area	Priority Mandatory, or Essential, or Desired	Weight Mandatory = 10 Essential = 8 Desirable = 1	MAXIMO	PassPort	HATS	CATSweb	Empl Sugg Web	
				Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	
Appendix A	Employee Suggestion Subject Area	Essential	8	3	24	3	24	3	24
Appendix A	Employee Suggestion Title	Essential	8	3	24	3	24	3	24
Appendix A	Employee Suggestion Unique Identifier	Essential	8	3	24	3	24	3	24
Appendix A	Suggester Correspondence Preference (e.g., email, phone)	Essential	8	3	24	3	24	3	24
Appendix A	Suggester Hanford ID	Essential	8	3	24	3	24	3	24
Appendix A	Suggester Mailstop	Essential	8	3	24	3	24	3	24
Appendix A	Suggester Name	Essential	8	3	24	3	24	3	24
Appendix A	Suggester Organization	Essential	8	3	24	3	24	3	24
Appendix A	Suggester Phone Number	Essential	8	3	24	3	24	3	24
Employee Suggestions Sub-Total				186	1573	168	1347	210	1676
WEIGHT TOTAL:				1830	1830	1249	1249	714	
TOTAL POSSIBLE SCORE BASED WEIGHT AND RANK OF 3:				5490	5490	3747	3747	2142	
BUSINESS MANAGEMENT ACTION TRACKING - PRODUCT TOTAL:				5165	3899	3646	2866	2045	

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workaround; 2 = satisfactorily met requirement; 3 = efficiently met requirement										MAXIMO		PassPort		HATS		CATSwab		Empl Sugg Web	
SRS Mapping Requirement	Functional Area	Priority Mandatory, Essential, or Desired	Weight Mandatory = 10 Essential =8 Desirable = 1	Rank Score		Rank Score		Rank Score		Rank Score		Rank Score		Rank Score					
				PRODUCT PERCENTAGE OF TOTAL POSSIBLE SCORE:		94%		71%		97%		76%		95%					

5.6 MATERIAL MANAGEMENT

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workaround; 2 = satisfactorily met requirement; 3 = efficiently met requirement														
SRS Mapping Requirement		Functional Area	Priority Mandatory, Essential, or Desired	Weight Mandatory = 10 Essential =8 Desirable = 1	MAXIMO		CHAMPS		PassPort		PeopleSoft		TIS	
					Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score
3.3.7.1	Must support, at a minimum, 20 concurrent users.	Accounts Payable	Mandatory	10		2	20	2	20	2	20			
3.3.7.2	Ability to automatically assign a voucher number to uniquely identify a payment request and to serve as an audit trail identifier.	Accounts Payable	Mandatory	10		3	30	3	30	3	30			
3.3.7.3	Ability to identify duplicate invoices from vendor.	Accounts Payable	Mandatory	10		3	30	3	30	3	30			
3.3.7.4	Support check cancellation and reissue.	Accounts Payable	Mandatory	10		3	30	3	30	3	30			
3.3.7.5	Support generation of manual checks.	Accounts Payable	Mandatory	10		3	30	2	20	3	30			
3.3.7.6	Ability to record accruals for materials, which have been received, and services, which have been performed but not yet invoiced.	Accounts Payable	Mandatory	10		2	20	1	10	2	20			
3.3.7.7	Ability to track and record 1099 reporting at invoice level.	Accounts Payable	Mandatory	10		3	30	1	10	3	30			
3.3.7.8	Ability to track status of invoices as they are processed.	Accounts Payable	Mandatory	10		3	30	2	20	3	30			
3.3.7.9	Ability to account for committed costs.	Accounts Payable	Mandatory	10		2	20	2	20			10		
3.3.7.10	Ability to track authorized Purchase Order amount to vendor cost incurred data.	Accounts Payable	Mandatory	10		2	20	3	30	3	30			
3.3.7.11	Ability to account for actual costs paid in order to determine accrued cost data and outstanding liability.	Accounts Payable	Mandatory	10		2	20	3	30	3	30			

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workaround; 2 = satisfactorily met requirement; 3 = efficiently met requirement										MAXIMO		CHAMPS		PassPort		PeopleSoft		TIS	
SRS Mapping Requirement	Functional Area	Priority Mandatory, or Essential, or Desired	Weight Mandatory = 10 Essential = 8 Desirable = 1	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score
3.3.7.12	Ability to cancel or delete a request prior to payment and account distribution.	Mandatory	10					2	20	2	20	3	30						
3.3.7.13	Support return and allowance, i.e., credit memo, as well as debit memo data on-line and apply to invoices.	Mandatory	10					3	30	1	10	2	20						
3.3.7.14	Provide method to stop payments and cancel invoices.	Mandatory	10					3	30	3	30	3	30						
3.3.7.15	Provide approval limits by user/group for transactions.	Mandatory	10					3	30	3	30	3	30						
3.3.7.16	Must generate check registers each time checks are created and printed and produce summary.	Mandatory	10					3	30	1	10	3	30						
3.3.7.17	Provide methods to process all invoice types, such as: orders with receivers, orders without receivers, subcontract services, expense reports, disbursement authorizations and freight.	Mandatory	10					2	20	3	30	3	30						
3.3.7.18	Must automate the matching process between invoice, receiver, and purchase order.	Mandatory	10					2	20	3	30	3	30						
3.3.7.19	Provide full integration between Accounts Payable, Procurement and General Ledger.	Mandatory	10					1	10	3	30	2	20						
3.3.7.20	Must generate check-issued file for bank and accept/perform electronic redemption/reconciliation file from bank.	Mandatory	10					0	0	0	0	3	30						
3.3.7.21	Ability to maintain supplier database information including multiple business addresses, socio-economic, and product code, that supports the accounts payable and	Essential	8					2	16	3	24	2	16						

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workaround; 2 = satisfactorily met requirement; 3 = efficiently met requirement									
SRS Mapping	Requirement	Functional Area	Priority Mandatory, Essential, or Desired	Weight Mandatory = 10 Essential = 8 Desirable = 1	MAXIMO Rank Score	CHAMPS Rank Score	PassPort Rank Score	PeopleSoft Rank Score	TIS Rank Score
	procurement modules.								
3.3.7.22	Record and track sales and use taxes by locality.	Accounts Payable	Essential	8		2	16	1	8
3.3.7.23	Ability to calculate payment due date based upon invoice or Purchase Order/Receipt data.	Accounts Payable	Essential	8		2	16	3	24
3.3.7.24	Ability to support WBS and/or OBS accounting structures.	Accounts Payable	Essential	8		2	16	1	8
3.3.7.25	Ability to support user controlled check printing processing.	Accounts Payable	Essential	8		3	24	2	16
3.3.7.26	Ability to indicate the vendor or invoice is to be held and not paid.	Accounts Payable	Essential	8		3	24	2	16
3.3.7.27	Provide method to enter terms and discount information.	Accounts Payable	Essential	8		3	24	3	24
3.3.7.28	Track subcontract retention amounts.	Accounts Payable	Essential	8		3	24	3	24
3.3.7.29	Support invoice-less payment to vendors.	Accounts Payable	Essential	8		3	24	2	16
3.3.7.30	Support automatic calculation/compare of best discount terms.	Accounts Payable	Essential	8		1	8	0	0
3.3.7.31	Ability to generate both batch and on-line payments.	Accounts Payable	Essential	8		2	16	3	24
3.3.7.32	Support automatic generating of recurring invoices for payments such as leases.	Accounts Payable	Essential	8		3	24	3	24

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workaround; 2 = satisfactorily met requirement; 3 = efficiently met requirement										MAXIMO		CHAMPS		PassPort		PeopleSoft		TIS	
SRS Mapping	Requirement	Functional Area	Priority Mandatory, Essential, or Desired	Weight Mandatory = 10 Essential =8 Desirable = 1	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score
3.3.7.33	Ability to list journal detail each time the General Ledger interface occurs.	Accounts Payable	Essential	8				1	8	3	24	3	24						
3.3.7.34	Ability to report information for General Ledger reconciliation and balancing functions.	Accounts Payable	Essential	8				1	8	3	24	3	24						
3.3.7.35	Provide ability to make partial payments or progress payments.	Accounts Payable	Essential	8				3	24	2	16	2	16						
3.3.7.36	Provide mechanism to track lost discounts and amounts.	Accounts Payable	Desirable	1				2	2	2	2	2	2						
3.3.7.37	Ability to track freight shipping payments over \$50 for reporting to Government Services Administration.	Accounts Payable	Desirable	1				2	2	3	3	3	3						
3.3.7.38	Provide multiple payment addresses and/or bank information for a single payee.	Accounts Payable	Desirable	1				0	0	3	3	2	2						
3.3.7.39	Provide multiple bank accounts per company capability.	Accounts Payable	Desirable	1				2	2	0	0	3	3						
3.3.7.40	Ability to support payment to the third parties that act as agents of the payee.	Accounts Payable	Desirable	1				0	0	1	1	3	3						
3.3.7.41	Ability to support weekly accruals.	Accounts Payable	Desirable	1				2	2	0	0	3	3						
Accounts Payable Sub-Total				326				89	750	87	721	108	868						
3.3.8.1	Must support, at a minimum, 200 concurrent users.	Time Recording	Mandatory	10															
3.3.8.2	Ability for worker to enter time.	Time Recording	Mandatory	10															

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workload; 2 = satisfactorily met requirement; 3 = efficiently met requirement					MAXIMO		CHAMPS		PASSPORT		PeopleSoft		TIS	
SRS Mapping	Requirement	Functional Area	Priority Mandatory, Essential, or Desired	Weight Mandatory = 10 Essential = 8 Desirable = 1	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score
3.3.8.3	Ability for worker to enter time card corrections for previous weeks.	Time Recording	Mandatory	10							0	0	3	30
3.3.8.4	Ability to enter time for entire week from one panel.	Time Recording	Essential	8							0	0	3	24
3.3.8.5	Ability to approve time card based on organizational structure.	Time Recording	Essential	8							2	16	3	24
3.3.8.6	Support time entry using the work breakdown structure used within the financial system.	Time Recording	Essential	8							2	16	3	24
3.3.8.7	Provide multiple pay codes such as shift differential, certification pay, qualification pay, platoon and guard pay practices, varying overtime rates and other premiums.	Time Recording	Essential	8							3	24	3	24
3.3.8.8	Provide multiple pay and shift schedule calendars, incorporating varying holiday schedules.	Time Recording	Essential	8							2	16	3	24
3.3.8.9	Provide audit functions for all time entry activities.	Time Recording	Essential	8							3	24	3	24
3.3.8.10	Ability to alert responsible manager for timecard delinquencies.	Time Recording	Essential	8							0	0	3	24
3.3.8.11	Ability to designate alternate staff other than immediate manager for time card review and approval.	Time Recording	Essential	8							3	24	3	24
3.3.8.12	Ability for contract personnel to enter time without generating paychecks.	Time Recording	Essential	8							3	24	0	0
3.3.8.13	Ability to record all time worked, regardless whether payable time or not	Time Recording	Essential	8							3	24	3	24

RANK VALUES: 0 = did not meet requirement 1 = partially met requirement with workaround; 2 = satisfactorily met requirement; 3 = efficiently met requirement													
SRS Mapping Requirement	Functional Area	Priority Mandatory, Essential, or Desired	Weight Mandatory = 10 Essential =8 Desirable = 1	MAXIMO		CHAMPS		PassPort		PeopleSoft		TIS	
				Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score
3.3.8.14	Ability to save time throughout the day, not just after 9 hours of recordable time.	Time Recording	8							3	24	0	0
3.3.8.15	Provide manager re-approval notification if time is modified after initial approval.	Time Recording	8							0	0	3	24
3.3.8.16	Provide supervisor and employee electronic authorization with date/time stamp audit trail.	Time Recording	8							3	24	3	24
3.3.8.17	Provide archival and user selectable retrieval of timesheet historical information.	Time Recording	8							0	0	3	24
3.3.8.18	Provide invoice matching for contract employees and accounts payable.	Time Recording	1							1	1	0	0
Time Recording Sub-Total				143						32	257	44	368
3.3.10.1	Must support, at a minimum, 100 concurrent users.	Purchasing/Service Contracts	10	2	20	2	20	2	20	2	20		
3.3.10.2	Support an average of 50 requisitions and/or purchase orders per day.	Purchasing/Service Contracts	10	2	20	2	20	2	20	2	20		
3.3.10.3	Support an average of 5 Items per requisition or purchase order.	Purchasing/Service Contracts	10	2	20	2	20	2	20	2	20		
3.3.10.4	Must have a capability of over 100 items per requisition or purchase order.	Purchasing/Service Contracts	10	2	20	2	20	2	20	2	20		

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SRS Mapping	Requirement	Functional Area	Priority Mandatory, Essential, or Desired	Weight Mandatory = 10 Essential =8 Desirable = 1	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score
3.3.10.5	Ability to provide procurement and receiving functions such as: tracking evaluated suppliers, receipt inspection requirements, and documentation and tracking of supplier non-conformance.	Purchasing/ Service Contracts	Mandatory	10	2	20	2	20	3	30	3	30		
3.3.10.6	Ability to capture standard information about the receipt of goods or the approval of services rendered.	Purchasing/ Service Contracts	Mandatory	10	3	30	2	20	3	30	3	30		
3.3.10.7	Provides for a single purchase order to be created from multiple requisitions with item roll up.	Purchasing/ Service Contracts	Mandatory	10	3	30	3	30	3	30	3	30		
3.3.10.8	Ability to track all modifications separate from basic award coding.	Purchasing/ Service Contracts	Mandatory	10	3	30	1	10	3	30	3	30		
3.3.10.9	Ability to maintain award information until closeout of award.	Purchasing/ Service Contracts	Mandatory	10	3	30	2	20	3	30	2	20		
3.3.10.10	Provide for zero dollar awards.	Purchasing/ Service Contracts	Mandatory	10	3	30	3	30	1	10	3	30		
3.3.10.11	Ability to change buyer codes when subcontracts are transferred to new administrator.	Purchasing/ Service Contracts	Mandatory	10	1	10	3	30	3	30	3	30		
3.3.10.12	Ability to maintain closeout steps to track retention balance and release options, final acceptance of services, and date.	Purchasing/ Service Contracts	Mandatory	10	3	30	3	30	3	30	2	20		
3.3.10.13	Provide for electronic purchase requests.	Purchasing/ Service Contracts	Mandatory	10	3	30	3	30	3	30	3	30		

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SRS Mapping Requirement	Functional Area	Priority Mandatory, Essential, or Desired	Weight Mandatory = 10 Essential = 8 Desirable = 1	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score
3.3.10.14	Ability to track and provide current and historical data on small business, socio-economic, and other procurement metrics such as competition and performance base awards.	Mandatory	10	2	20	1	10	3	30	3	30	3	30	
3.3.10.15	Support creation of service and consulting contracts.	Mandatory	10	3	30	2	20	3	30	3	30	3	30	
3.3.10.16	Provide automated requisition routing and approval processes for original and modifications.	Mandatory	10	3	30	1	10	1	10	3	30	3	30	
3.3.10.17	Ability for contracts to be awarded, renewed or additional releases / options to be exercised electronically.	Mandatory	10	2	20	3	30	3	30	3	30	3	30	
3.3.10.18	Provide a commitment tracking capability.	Mandatory	10	1	10	2	20	2	20	3	30	3	30	
3.3.10.19	Support matching with invoice and receivers.	Mandatory	10	3	30	3	30	3	30	3	30	3	30	
3.3.10.20	Provide capability to allow cost distribution to one or more different cost centers either at the purchase order line item or purchase order header level.	Mandatory	10	2	20	3	30	1	10	2	20	3	30	
3.3.10.21	Support Request for Proposal and Request for Quote processing.	Mandatory	10	3	30	1	10	2	20	3	30	3	30	
3.3.10.22	Support progress payment recording based on earned value calculations.	Mandatory	10	1	10	2	20	2	20	3	30	3	30	

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SRS Mapping	Requirement	Functional Area	Priority Mandatory, Essential, or Desired	Weight Mandatory = 10 Essential =8 Desirable = 1	MAXIMO		CHAMPS		PassPort		PeopleSoft		TIS	
					Rank Score		Rank Score		Rank Score		Rank Score		Rank Score	
3.3.10.23	Ability to have more than one open non-id purchase order per vendor for the same service or commodity.	Purchasing/ Service Contracts	Mandatory	10	3	30	1	10	3	30	2	20		
3.3.10.24	Provides item history by vendor and dollar amount.	Purchasing/ Service Contracts	Mandatory	10	3	30	3	30	3	30	3	30		
3.3.10.25	Provides item history by socio-economic awards and other small business awards.	Purchasing/ Service Contracts	Mandatory	10	2	20	2	20	3	30	2	20		
3.3.10.26	Provides item history by time phase data extraction, e.g., contract value increases for Fiscal Year 1996 vs. Total of all.	Purchasing/ Service Contracts	Mandatory	10	2	20	3	30	1	10	3	30		
3.3.10.27	Provides item history by buyer summary.	Purchasing/ Service Contracts	Mandatory	10	3	30	3	30	3	30	3	30		
3.3.10.28	Provide support for user definable clauses.	Purchasing/ Service Contracts	Essential	8	2	16	2	16	2	16	2	16		
3.3.10.29	Support clause template table for user to modify clauses for individual purchase orders.	Purchasing/ Service Contracts	Essential	8	3	24	2	16	3	24	2	16		
3.3.10.30	Ability for clauses and MS Word documents to be attached to material requests and purchase orders.	Purchasing/ Service Contracts	Essential	8	3	24	3	24	1	8	2	16		
3.3.10.31	Ability to prevent output of award documents when correct entries have not been made.	Purchasing/ Service Contracts	Essential	8	3	24	3	24	3	24	3	24		
3.3.10.32	Ability for multiple awards of purchase orders from a single requisition at item level.	Purchasing/ Service Contracts	Essential	8	3	24	2	16	3	24	2	16		

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SRS Mapping	Requirement	Functional Area	Priority Mandatory, Essential, or Desired	Weight Mandatory = 10 Essential = 8 Desirable = 1	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score
3.3.10.33	Provide for the capability to support past modification histories as breakout of roll up number.	Purchasing/Service Contracts	Essential	8	3	24	3	24	3	24	3	24	3	24	
3.3.10.34	Provide capability to purge vendors.	Purchasing/Service Contracts	Essential	8	3	24	2	16	2	16	3	24	3	24	
3.3.10.35	Provides ability to enter Pre/Post dates for items such as option modifications, change orders.	Purchasing/Service Contracts	Essential	8	3	24	3	24	3	24	3	24	3	24	
3.3.10.36	Ability to maintain buyer code history information.	Purchasing/Service Contracts	Essential	8	3	24	3	24	3	24	2	16	3	24	
3.3.10.37	Provide a supplier evaluation and rating capability.	Purchasing/Service Contracts	Essential	8	3	24	3	24	2	16	2	16	2	16	
3.3.10.38	Provide user defined parameters that notify users of pending critical dates for open or pending orders.	Purchasing/Service Contracts	Essential	8	3	24	1	8	3	24	3	24	3	24	
3.3.10.39	Capability to track buyer actions against a pre-determined approval authority that is based on individual transactions rather than a cumulative basis.	Purchasing/Service Contracts	Essential	8	3	24	3	24	3	24	1	8	3	24	
3.3.10.40	Capability to report volumes of transactions by buyer and projects.	Purchasing/Service Contracts	Essential	8	3	24	3	24	2	16	2	16	3	24	
3.3.10.41	Provide electronic processing / work flow for payment authorizations by Buyer Technical Representative, Accounts Payable and Buyer.	Purchasing/Service Contracts	Essential	8	2	16	1	8	3	24	3	24	3	24	

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3.3.10.42	Provide Material Procurement and Service Contracts with the same look and feel to minimize cross training.	Purchasing/Service Contracts	Essential	8	3	24	3	24	0	0	3	24	
3.3.10.43	Support Request for Information processing.	Purchasing/Service Contracts	Desirable	1	2	2	2	2	0	0	0	0	
3.3.10.44	Support electronic bid responses and postings.	Purchasing/Service Contracts	Desirable	1	3	3	2	2	2	2	3	3	
		Purchasing Service Contracts Sub-Total		392	3	899	101	899	101	926	115	1043	
3.3.11.1	Must support, at a minimum, 100 concurrent users.	Material Purchasing	Mandatory	10	2	20	2	20	2	20	2	20	
3.3.11.2	Ability to track lead times.	Material Purchasing	Mandatory	10	3	30	2	20	3	30	3	30	
3.3.11.3	Ability to suspend requisitions without removing requisition data	Material Purchasing	Mandatory	10	3	30	1	10	3	30	3	30	
3.3.11.4	Supports several levels of acceptance for materials, such as receipt acknowledged and quality assurance hold, reject, or acceptance.	Material Purchasing	Mandatory	10	2	20	1	10	2	20	3	30	
3.3.11.5	Ability to define a tolerance by either a dollar amount or a percentage increase/decrease.	Material Purchasing	Mandatory	10	3	30	3	30	2	20	3	30	
3.3.11.6	Ability to upward or downward adjust a purchase order upon receipt of goods where the price per quantity or the quantity differs from the ones on the purchase order by a user-defined tolerance.	Material Purchasing	Mandatory	10	3	30	3	30	2	20	2	20	

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3.3.11.7	Provides item history by standard industrial classification, product codes and Environmental Protection Agency designated items purchased.	Material Purchasing	Mandatory	10	3	30	2	20	1	10	3	30	
3.3.11.8	Ability to catalog inventory items detailing information such as item descriptions, locations, sources, quantities, and prices.	Material Purchasing	Essential	8	3	24	3	24	3	24	3	24	
3.3.11.9	Ability for on-line processing of stock items received, issued, and returned.	Material Purchasing	Essential	8	3	24	3	24	3	24	3	24	
3.3.11.10	Support multi-warehouse environment including more than one bin and/or location per stocked item.	Material Purchasing	Essential	8	3	24	3	24	3	24	3	24	
3.3.11.11	Ability to maintain at least 12 months of usage information.	Material Purchasing	Essential	8	3	24	3	24	3	24	3	24	
3.3.11.12	Ability to consolidate full requisition listing regardless of lead times.	Material Purchasing	Essential	8	2	16	2	16	1	8	3	24	
3.3.11.13	Support on-line requisitioning and reservation of stocked items during job planning.	Material Purchasing	Desirable	1	3	3	3	3	3	3	3	3	
3.3.11.14	Support on-line requesting for non-stock items during job planning.	Material Purchasing	Desirable	1	3	3	3	3	3	3	3	3	
3.3.11.15	Support automatic recommended reordering of stock items based on the predefined reordering point information.	Material Purchasing	Desirable	1	3	3	3	3	3	3	3	3	
		Material Purchasing Sub-Total		113	42	311	37	261	37	263	43	319	
3.3.12.1	Must support, at a minimum, 100 concurrent users.	Inventory	Mandatory	10	2	20	2	20	2	20	2	20	

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					Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score	Rank Score
3.3.12.2	Provides change data traceable to activity type, date, time, and user.	Inventory	Mandatory	10	3	30	3	30	0	0	3	30
3.3.12.3	Provides the capability to record acquisition date, received date, transfer dates, etc.	Inventory	Mandatory	10	3	30	3	30	3	30	3	30
3.3.12.4	Provides the capability to record and maintain custodian and location information such as building, room, bin/drawer, assigned project or work package, assigned manager.	Inventory	Mandatory	10	2	20	3	30	1	10	3	30
3.3.12.5	Provides the capability to record and maintain information such as: acquisition cost, accounting status, asset type, shelf life and replacement value.	Inventory	Mandatory	10	2	20	2	20	3	30	3	30
3.3.12.6	Provides the capability to record and maintain inventory information, such as: safety class, the levels of inspection required and/or performed by Quality Assurance.	Inventory	Mandatory	10	3	30	1	10	3	30	3	30
3.3.12.7	Provides the capability to record standard inventory information, such as name, manufacturer name, mfg. number, serial number, size/capacity and document number.	Inventory	Mandatory	10	3	30	3	30	3	30	3	30
3.3.12.8	Provide an automated, integrated database in order to purchase and manage inventory.	Inventory	Mandatory	10	3	30	3	30	1	10	2	20
3.3.12.9	Provide inventory management capabilities, such as, transaction tracking, reorder point analysis, physical count, financial accounting, and demand history.	Inventory	Mandatory	10	3	30	3	30	3	30	2	20

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3.3.12.10	Provides storage management capabilities, such as storage space, reserves, distribution, material put away, storage types, material staging, and shipping.	Mandatory	10	3	30	3	30	3	30	3	30	3	30	3	30	3	30		
3.3.12.11	Provides the capability to record transferring inventory items to excess.	Mandatory	10	2	20	2	20	1	10	3	30								
3.3.12.12	Provides the capability to track equipment from purchase to disposal.	Mandatory	10	3	30	3	30	2	20	2	20								
3.3.12.13	Support controlling and tracking tool crib items and Measure and Test Equipment functions including calibration recall.	Essential	8	2	16	2	16	2	16	2	16								
3.3.12.14	Ability to reserve inventory, release inventory, and return inventory.	Essential	8	3	24	3	24	2	16	2	16								
3.3.12.15	Ability to integrate with the selected Work Management module.	Essential	8	3	24	3	24	2	16	1	8								
3.3.12.16	Provides capability to scan documents into system or link to scanned documents, such as vendor documentation.	Essential	8	1	8	2	16	0	0	3	24								
3.3.12.17	Provides the capability to use bar code readers for collection of inventory information.	Essential	8	3	24	2	16	0	0	3	24								
3.3.12.18	Provides management reporting/analysis for acquisition review, reutilization, cost/benefit analysis, and lease vs. buy analysis.	Essential	8	2	16	2	16	0	0	2	16								
3.3.12.19	Ability to identify and conduct periodic cycle counts.	Essential	8	3	24	3	24	2	16	3	24								
Inventory Sub-Total				49	456	48	446	33	314	49	456								

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WEIGHT TOTAL:				681	1007	1007	1007	1150	143
TOTAL POSSIBLE SCORE BASED WEIGHT AND RANK OF 3:				2043	3021	3021	3021	3450	429
TECHNICAL - PRODUCT TOTAL:				1766	2357	2224	2945	358	
PRODUCT PERCENTAGE OF TOTAL POSSIBLE SCORE:				86%	78%	74%	85%	86%	