

Quality Control System (Q C S)

**User Manual and Training Guide
(QCS Software Version 2.38)**



**Folsom Bridge Project
Sacramento District - CESPCK**

19 January 2011

RMS Center
(760) 247-0217 - Voice
(760) 247-2547 - Fax

Written under contract for the RMS Center,
Los Angeles District, U.S. Army Corps of Engineers

While every precaution has been taken in the preparation of this manual, the U.S. Army Corps of Engineers and the author assume no responsibility for damages resulting from the use of information contained herein.

Trademarks

Windows 2000, Windows NT, Windows XP, Windows Vista
are registered trademarks of the Microsoft Corporation.

HP and LaserJet are registered trademarks of the Hewlett-Packard Corporation.

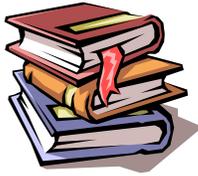


TABLE OF CONTENTS

Chapter 1 - Quality Control System Basics	1-7
<i>What Is the QCS Program?.....</i>	<i>1-7</i>
What makes QCS different from standard commercial programs (COTS)?	1-7
Purpose of the QCS Program.....	1-8
About this Manual.....	1-8
Typographic Conventions and Symbols	1-8
The Screen Layout of the System.....	1-10
List of Projects	1-10
List of Projects	1-11
Contract Menu – Administration Screen	1-12
Contract Menu – Quality Control Screen	1-13
Contract Menu – Submittals Screen.....	1-14
Contract Menu – Import / Export Screen	1-15
Edit (Memo) Fields	1-16
Help / About Screen.....	1-17
The Reports Option.....	1-18
Action Item Report.....	1-19
Contractor Action Items – Page 1	1-20
<i>Hardware/Software Requirements</i>	<i>1-21</i>
Hardware	1-21
Software.....	1-21
<i>Installing the QCS Program.....</i>	<i>1-21</i>
Choices for Installing QCS.....	1-22
Single Stand-Alone System	1-22
Multiple Stand-Alone Systems.....	1-22
Installed on a Wide-Area-Network	1-22
<i>Updating the QCS Program Software.....</i>	<i>1-24</i>
Running the QCS Program.....	1-25
Entering a QCS Site Title	1-25
Adding a Contract to the QCS Program.....	1-27
Import from RMS to QCS Using SFTP Server.....	1-28
Import from RMS into QCS by Exported File	1-30
Request Export File for Adding Contract	1-32
<i>Adding a Remote QCS Site.....</i>	<i>1-34</i>
<i>Exchanging Data with a Remote QCS Site.....</i>	<i>1-37</i>
<i>Warning! On use of Remote QCS Sites</i>	<i>1-38</i>
<i>An explanation of Site ID's and Titles</i>	<i>1-38</i>
<i>Backup Database.....</i>	<i>1-40</i>

<i>Restore Database</i>	1-41
<i>Uninstall the QCS Program</i>	1-44
<i>Training Mode Support</i>	1-45
<i>Installing QCS for more than one Corps District</i>	1-46
<i>Technical Support</i>	1-47
Live Assist / Fast Support / GoToMeeting.....	1-47
Chapter 2 – CQM and Quality Control	2-1
<i>What you will learn from this Chapter:</i>	2-1
Required Administrative Data.....	2-1
Required QA / QC Data.....	2-1
Correspondence Tracking.....	2-1
Request for Information.....	2-1
<i>Contractor Quality Control – Planning</i>	2-2
<i>Overview</i>	2-2
Contractor Responsibility.....	2-2
Construction Quality Management Training for Contractors.....	2-3
CQM Certificate – Sample – Corps of Engineers.....	2-5
CQM Certificate – Sample - Navy.....	2-5
Contractor Quality Control Plans.....	2-6
QCS Contractor Quality Control Module.....	2-7
Elements of Quality Control within QCS.....	2-7
<i>Why should the Contractor use QCS?</i>	2-8
<i>Quality Control Requirements</i>	2-8
<i>Prime Contractor Data</i>	2-9
Contractor Information.....	2-9
What is CCASS anyway?.....	2-11
CCASS Workflow.....	2-12
Contractor Address.....	2-12
Contractor Address.....	2-13
Management / Work Days.....	2-14
Bond Co. / SBA.....	2-15
<i>Subcontractor Data</i>	2-16
<i>Contractor Insurance</i>	2-18
<i>Contractor Payrolls</i>	2-20
<i>Correspondence</i>	2-21
<i>Requests for Information (RFI's)</i>	2-22
Prepare RFI.....	2-22
RFI Screen.....	2-23
Example of the RFI Process.....	2-24
Awaiting Response from Government on RFI.....	2-25
Export Daily QCS Update to the Government.....	2-25
RFI with Government Response.....	2-26
View RFI Report.....	2-27
Individual RFI Report.....	2-28
Summary RFI Report.....	2-29

<i>QC Planning Data</i>	2-30
Features of Work.....	2-30
Contract Menu – Features of Work.....	2-31
Features of Work from the Contractor Library.....	2-32
Features of Work from the Contract Level.....	2-33
3-Phase Inspections	2-33
3-Phase Checks in Contractor Library	2-34
Manually Add Inspection Check	2-35
Example of Adding Signature Blocks in Library	2-38
Copy Checks from 3 Phase Inspections in Library	2-43
Copy Checks from 3 Phase Inspections in a Contract.....	2-44
Copy Checks from 3 Phase Checks in Gov't Library	2-45
Copy Checks from Work Types in Gov't Library	2-46
The BIGGEST Short-cut from the Government Library	2-47
The End-Result of your Library entries.....	2-48
3-Phase Checks at the Contract level	2-49
How Features and 3-Phase Checks are related.....	2-50
Reports – Three Phase Inspection Checklists	2-51
Hazard Analysis (Safety).....	2-54
(Activity) Hazard Analysis – Contractor Library.....	2-55
Principle Steps	2-56
Equipment to be Used.....	2-57
Inspection Requirements.....	2-58
Training Requirements.....	2-58
Hazard Analysis Report - Contract.....	2-59
Complete and Export AHA to Government.....	2-60
QC Requirements.....	2-61
Quality Control Tests.....	2-61
User Schools	2-63
Installed Property.....	2-64
Transfer Property.....	2-65
<i>Reports for Planning</i>	2-66
<i>Equipment Checks</i>	2-67
<i>Dredging Equipment</i>	2-68
Bucket / Pipeline Dredge Entry Screen.....	2-68
Hopper Dredge Entry Screen	2-69
<i>Exposure Hours</i>	2-70
Monthly Record of Work-Related Injuries/Illnesses & Exposure.....	2-71
<i>Warranty Items</i>	2-72
Chapter 3 – CQC – Daily Report	3-1
<i>What you will learn from this Chapter:</i>	3-1
Quality Control Report and QCS.....	3-1
<i>Contractor Quality Control – Daily Report</i>	3-2
Overview	3-2
<i>Daily Quality Control Report</i>	3-2
Civil Report.....	3-3
Dredge Report	3-4
QC Report Date	3-4

Entering Weather Data	3-6
Possible choices for weather:	3-8
QC Narratives	3-9
Deficiency Items (aka Deficiency Tracking System)	3-11
Deficiency Items Issued by QC	3-12
Deficiency Items Issued by QA.....	3-13
QC Requirements.....	3-14
QC Tests	3-14
User Schools	3-15
Installed Property	3-16
Transfer Property	3-17
Prep/Initial Inspections	3-18
Activities Started/Finished	3-19
Contractors on Site	3-20
Labor Hours.....	3-21
Add Labor Hours Manually.....	3-21
Copy a Previous Day	3-22
Equipment Hours.....	3-23
Add Equipment Hours Manually.....	3-24
Copy A Previous Day.....	3-24
Accident Reporting	3-25
Accident Description	3-26
Identify and Classify the Accident	3-26
Indicate if the Accident is reportable.....	3-27
<i>Quality Control Report Form.....</i>	<i>3-28</i>

Chapter 4 – Submittals & Transmittals4-1

<i>What you will learn from this Chapter</i>	<i>4-1</i>
<i>Contract Submittals.....</i>	<i>4-2</i>
Overview	4-2
Reference Documents:.....	4-2
Submittals are a Contract Requirement.....	4-2
<i>Submittals that require Government Approval.....</i>	<i>4-3</i>
Extensions of Design	4-3
Critical Materials	4-3
Deviations	4-3
O&M Manuals	4-3
<i>SpecsIntact</i>	<i>4-4</i>
(Specifications-Kept-Intact) Specification Production System	4-4
Government Responsibilities (ER 415-1-10).....	4-4
<i>Submittal Processes.....</i>	<i>4-5</i>
Contract Setup	4-5
Submittal Requirements.....	4-7
Manually Adding Submittal Items to the Register.....	4-7
Submittal Details and Requirements	4-9
Submittal Descriptions:	4-10
Approval Requirements.....	4-12
Submittal Schedule	4-13
Specification Sections.....	4-15
Manually Add New Section	4-16

Select Sections from MasterFormat 1995 Library or 2004 Library.....	4-16
<i>Transmittal Processes</i>	4-18
Preparing the Transmittal Log (ENG Form 4025).....	4-18
Prepare Transmittals - Definition.....	4-18
Transmittals in Review - Definition.....	4-18
Returned from Government - Definition.....	4-18
Completed Transmittals - Definition.....	4-19
Prepare Transmittals.....	4-20
Transmittals in Review.....	4-26
Returned from Government.....	4-27
Completed Transmittals.....	4-28
Reports for Transmittals.....	4-29
Selecting the Submittal Register Report.....	4-30
Sample Register Report.....	4-31
Selecting the Transmittal Form.....	4-32
Sample ENG Form 4025 for Transmittal Form.....	4-32
Sample ENG Form 4025 for Transmittal Form.....	4-33
<i>Recap</i>	4-34
Identify Requirements (Register).....	4-34
Electronic Transfer of Data (SpecsIntact).....	4-34
Scheduling (timely flow of materials).....	4-35
Review and Approval (tracking).....	4-35
Transfer Records to Customer.....	4-35
Chapter 5 - Schedules & the SDEF.....	5-1
<i>What you will learn from this Chapter</i>	5-1
Contractor Schedule Requirements.....	5-1
Overview.....	5-2
<i>FAR Clause 52.236-15</i>	5-4
Schedules for Construction Contracts.....	5-4
Gantt Chart.....	5-5
Network Analysis System (NAS).....	5-5
<i>Standard Data Exchange Format (SDEF)</i>	5-6
<i>RMS, QCS and the SDEF</i>	5-7
<i>Contract Specified Project Schedule</i>	5-8
<i>QCS maintains two types of schedules</i>	5-8
Activity Schedule.....	5-10
Feature Schedule.....	5-11
Chapter 6 – Progress Payments.....	6-1
<i>What you will learn from this Chapter</i>	6-1
Progress Payments.....	6-1
Overview.....	6-2
<i>FAR Requirements for Prompt Payment</i>	6-3
<i>Adding a Pay Period</i>	6-5
<i>Entering Requested Activity Earnings</i>	6-6

<i>Subcontractor Earnings and Deductions</i>	6-8
Key items to be provided per the Prompt Payment Act:.....	6-8
Prompt Payment Certification Report (Page 1)	6-9
<i>Additional Earnings</i>	6-10
Stored Materials.....	6-10
Other Earnings not included in Activity Earnings	6-11
Preparatory Work.....	6-11
Performance and Payment Bonds	6-11
Subcontractor Deductions.....	6-12
<i>Payment POCs</i>	6-13
<i>Exporting the Pay Request</i>	6-14
<i>Payment Reports</i>	6-14
Progress Payment History - Report.....	6-15
Chapter 7 – Exchanging Data	7-1
<i>Overview</i>	7-1
QC Planning and Contract Scheduling:	7-1
Contract Progress: Daily QC Reports, Payments & Transmittal Log	7-2
General Guidelines	7-2
Steps to Importing or Exporting.....	7-2
Import/Export Screen -- RMS	7-3
Import RMS/QAS Data from Government - File.....	7-4
Import RMS Data from Government – SFTP	7-5
Export QCS Data to the Government – File	7-6
Export QCS Data to the Government – SFTP	7-7
Importing the SDEF file into the QCS program.....	7-8
Indicate what you would like to import.....	7-8
Activity Schedule Pointers.....	7-8
Locate the SDEF file	7-9
Confirm proper contract has been selected.....	7-10
Approve (or Disapprove) the imported items.....	7-12
Review Summary of Schedules.....	7-13
Compare Proposed Update to Previous Schedule.....	7-14
Compare Proposed Update to Previous Schedule – Report Page 1 of 3	7-15
Compare Proposed Update to Previous Schedule – Report Page 2 of 3	7-16
Compare Proposed Update to Previous Schedule – Report Page 3 of 3	7-17
Verify that activities have been imported and are balanced.....	7-18

Chapter 1 - Quality Control System Basics



What Is the QCS Program?

The Quality Control System (QCS) is a user-friendly comprehensive system for the expedient and effective management of construction contracts through tracking and documentation of all facets of a contract being administered for U.S. Army Corps of Engineers' construction field offices.

What makes QCS different from standard commercial programs (COTS)?

QCS is a Microsoft Windows® platform utilizing the Firebird® database engine designed with the User in mind. It allows the rapid entry and retrieval of information necessary to efficiently manage your resources. Several key features allow QCS to accomplish these goals. They include:

- Planning for Design, Government and Contractor Resources
- Contract Administration relative to unique Business Processes
- Interface with other Corps of Engineers Database systems
- Multiple QCS Sites can be used for a given contract
- Contractor Quality Control Activities
- 3-Phase Inspections at Contractor Library Level
- Hazard Analysis at Contractor Library level
- Libraries that span all contracts in database
- Comprehensive Report Explorer
- Windows features such as:
 - Copy, Cut and Paste
 - Spell and Grammar Check
 - Print and Preview Options

This chapter presents basic information about the QCS program. You will learn:

- How this manual is designed
- What hardware and software you need
- How to install and run the QCS program
- How to view and print reports

Purpose of the QCS Program

The Quality Control System (QCS) is the Contractor's Quality Control module of the Government's Resident Management System (RMS) and was developed to assist contractors in providing contract-required data to the Corps of Engineers. Furthermore, by taking advantage of the monitoring and reporting aspects of this program, the contractor can perform quality control activities more consistently and within the requirements specified by the Corps of Engineers.

About this Manual

This **User Manual and Training Guide** is designed to give detailed, easy to understand instructions on how to use the QCS program. It assumes that the QCS User has an understanding of Corps of Engineers' policy and the construction business in general but it does not necessarily require any previous computer knowledge.

Typographic Conventions and Symbols

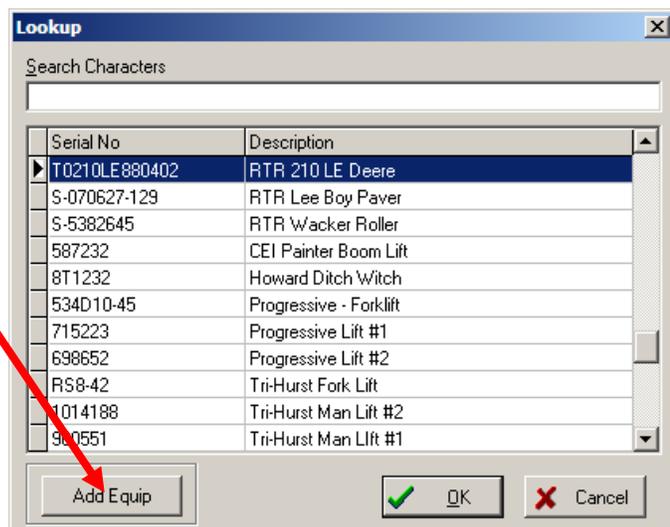
To make it easier for you to use this guide, symbols and type styles are used consistently. These are:



An ellipsis lookup associated with data entered into a cell.

When a button exists in this position, it affords the capability to add items directly without having to exit from where you are.

Lookup Dialog Window



 Drop Down Item List associated with required data entered into cell.

 Check Box indicates “yes” or “no” definitive.

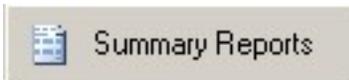
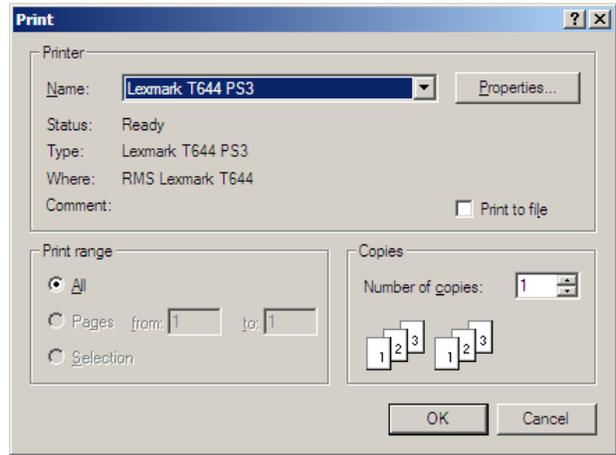
Note: The grayed check box with an apparent check showing indicates **either** “Yes” or “No”.



Print

Print Option

Print Options Window



Summary Reports



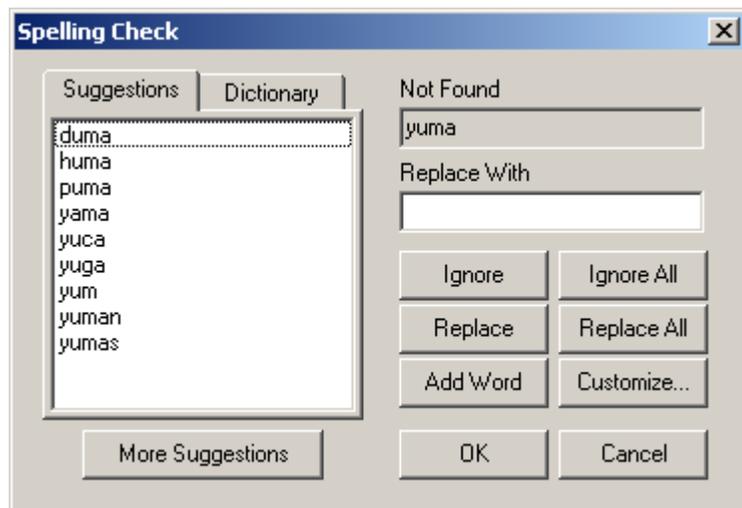
Contract Reports

Reports Buttons to launch Report Screens



Spell Check Button

Spell Check Dialog Window





Add Data

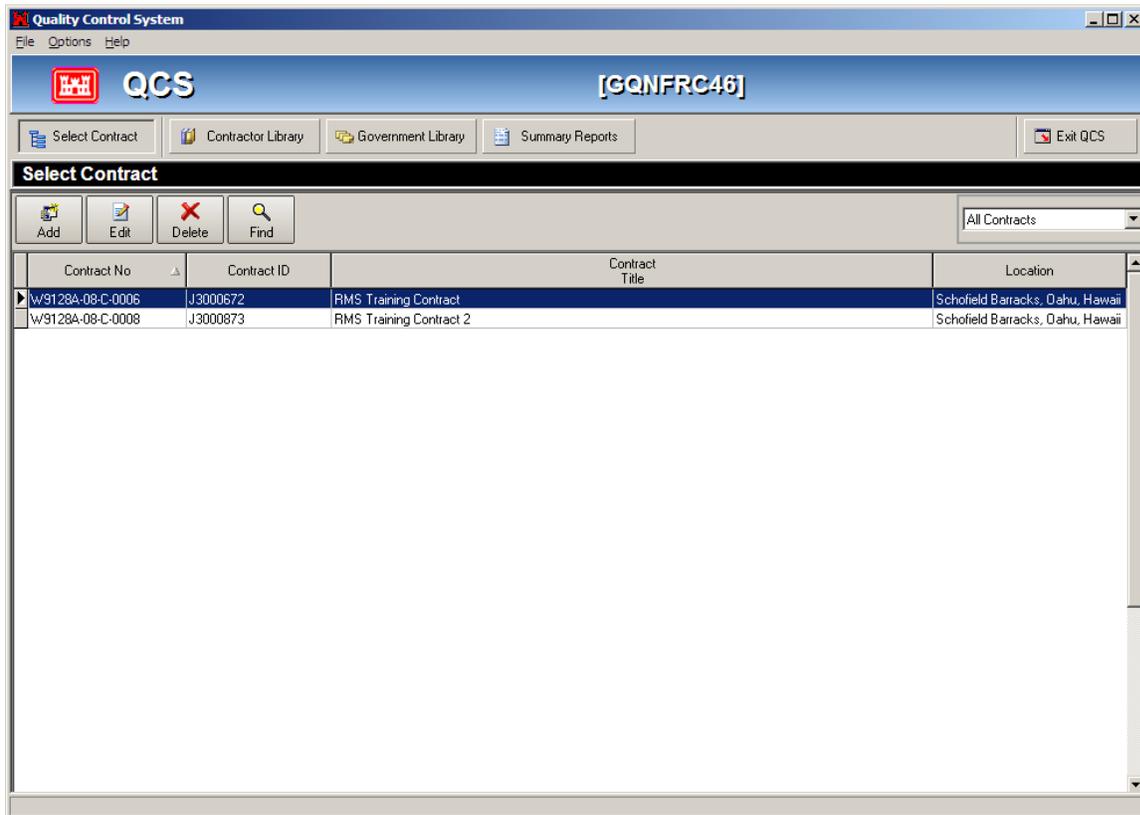
Delete Data



The Screen Layout of the System

There are quite a number of screens used within the program. However, consistency exists with their appearance and navigation requirements. The QCS opening menu, shown below, is just one example. The menu bar is displayed across the top of a screen and indicates the tasks you can perform from that screen. From this screen you are able to access libraries that affect all contracts within the system. You will also be able to access numerous reports from the **Summary Reports** button.

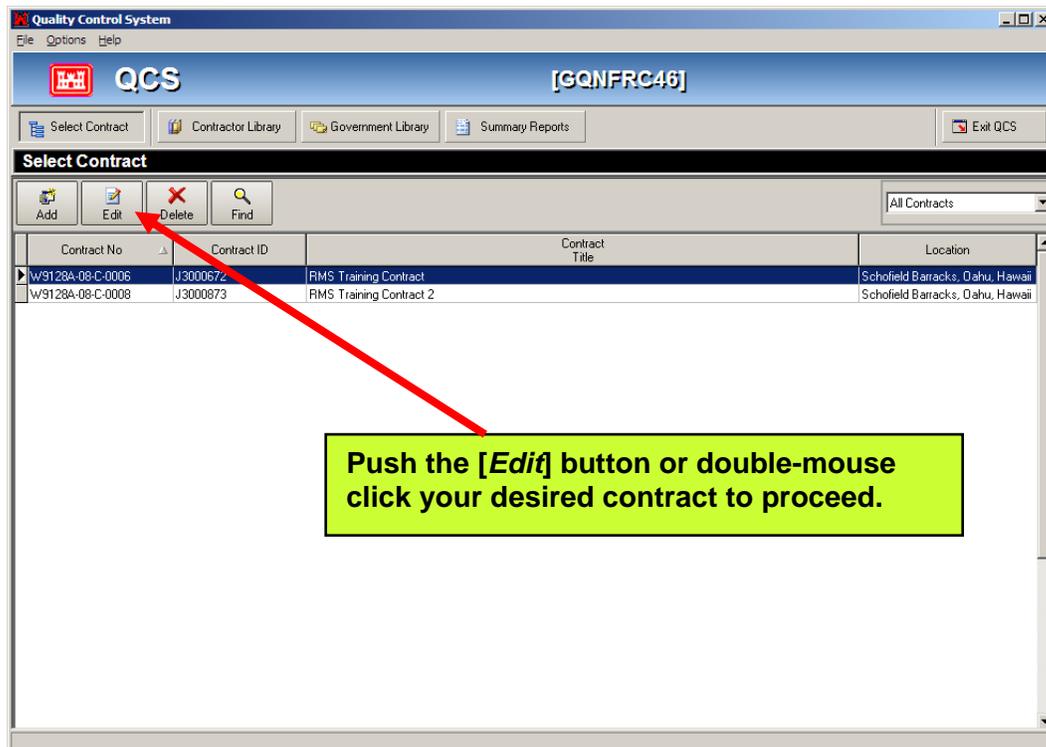
We are going to assume you have a contract added to your program and begin discussions beginning at that point. Later in this Manual, we will explain in detail how data is exchanged with the Government, including the ability to add contracts to the program.



List of Projects

Use your cursor to highlight the contract you want and then press the *[Edit]* button (you may also just double-mouse-click on a contract). You can also use *[Find]* if you have more contracts than may be seen on the screen.

There are additional menu bar options on this screen, which we shall discuss at the appropriate point.

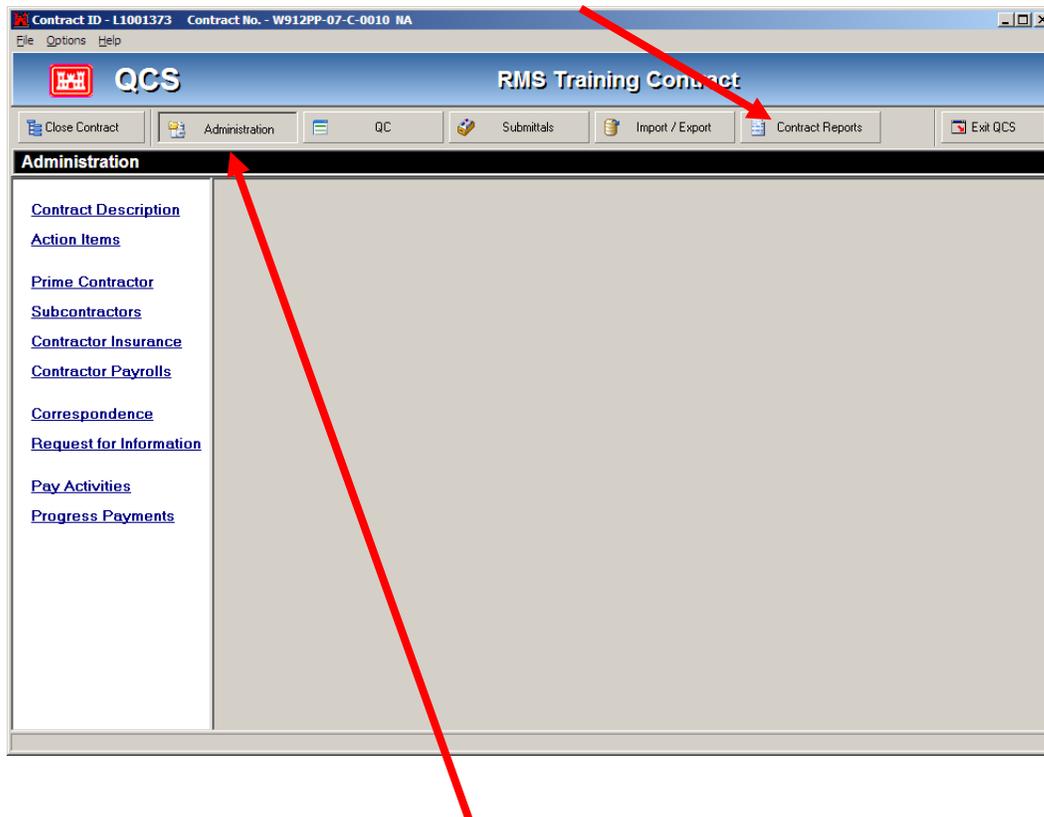


Main (Opening) QCS Screen

NOTE: When you are finished working in the QCS program, you may exit the program by using the **Exit QCS** option or pushing the "X" in the upper right hand side of each screen. In any case, you will observe a confirmation request that asks if you REALLY want to exit the program. Turning off your computer without exiting properly can damage your files.

Contract Menu – Administration Screen

The QCS Contract Menu consists of four primary areas: **Administration**, **Quality Control**, **Submittals**, and **Import / Export**. All QCS reports may be accessed from this (or any other) screen by clicking on the **Contracts Reports** button, located at the upper right side of the screen.

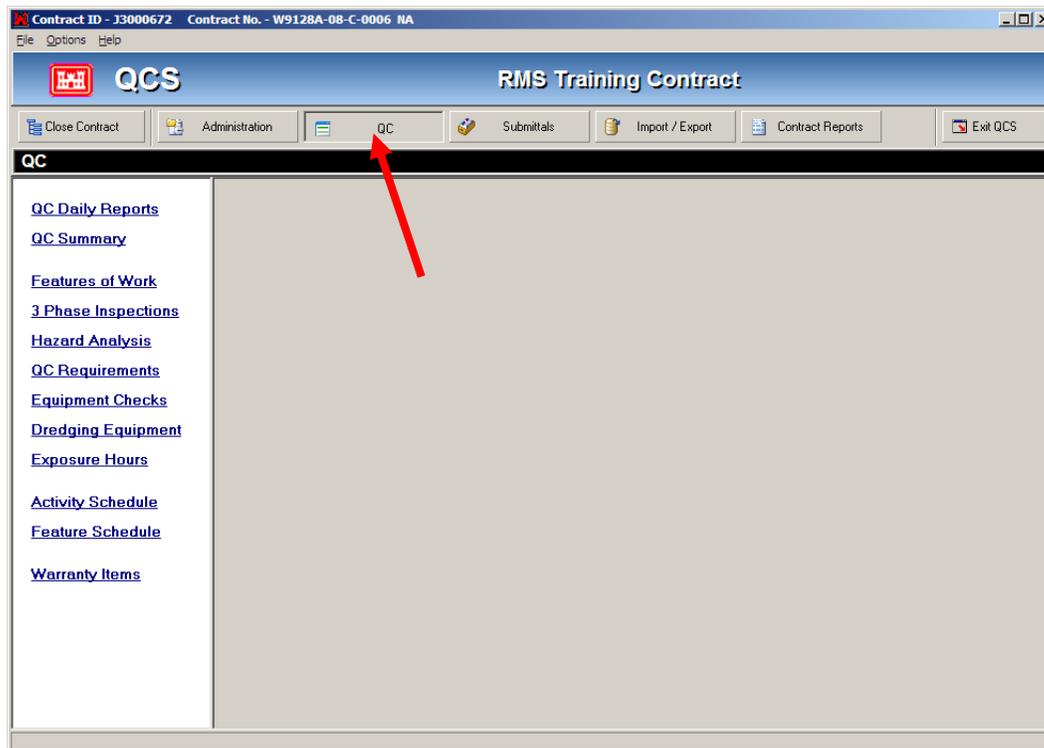


This initial screen defaults to the **Administration** screen and reflects various items that may be viewed, edited or entered, as may be necessary. This screen and the one found under **Quality Control** will be where most work is accomplished. Each selection will be discussed in detail.

Contract Menu – Quality Control Screen

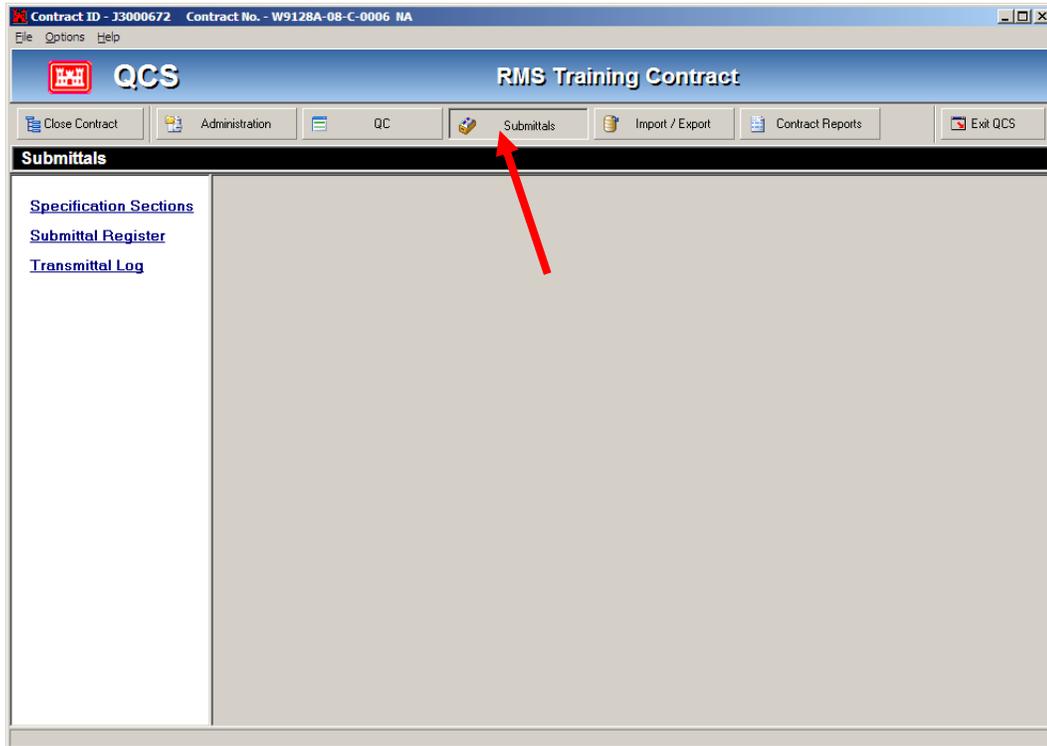
The **Quality Control** selection presents the area for entering the Daily Quality Control Report (QCR). All reports may also be viewed from this screen by choosing the **QC Summary** selection.

Planning for **Features of Work**, **QC Requirements**, and so forth, are also accomplished from this screen selection.



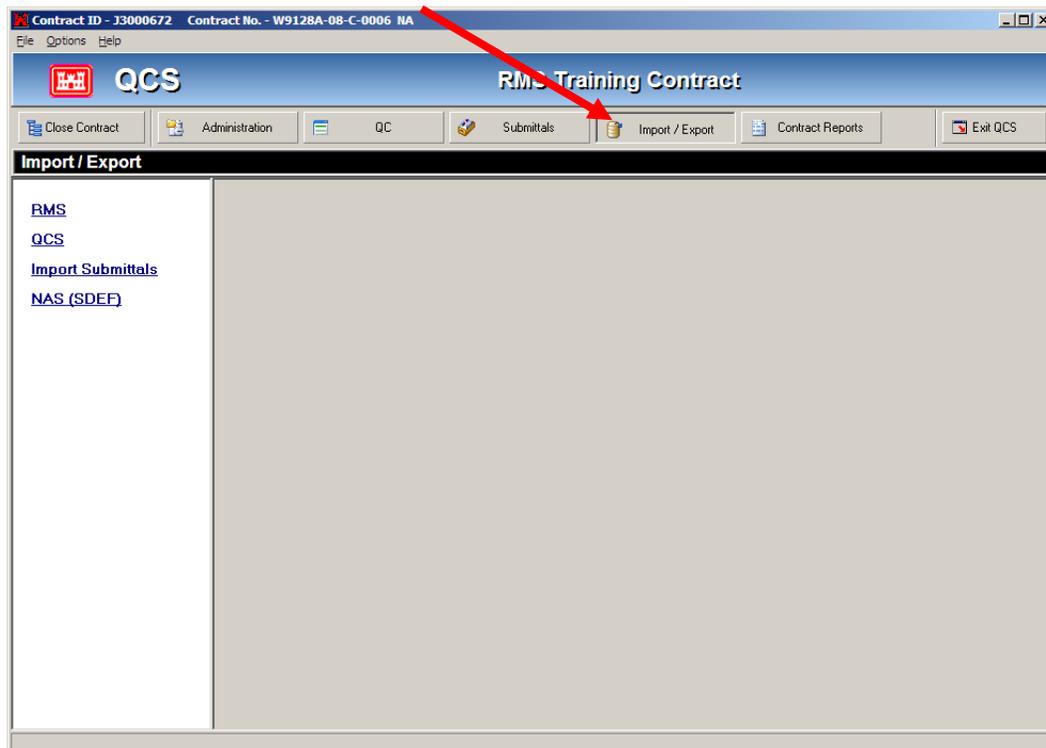
Contract Menu – Submittals Screen

The **Submittals** selection presents the area for entering the Specifications Sections (using either the MasterFormat 1995 Library or the MasterFormat 2004 Library). The Submittal Register and Transmittal Log are also accessed from this screen.



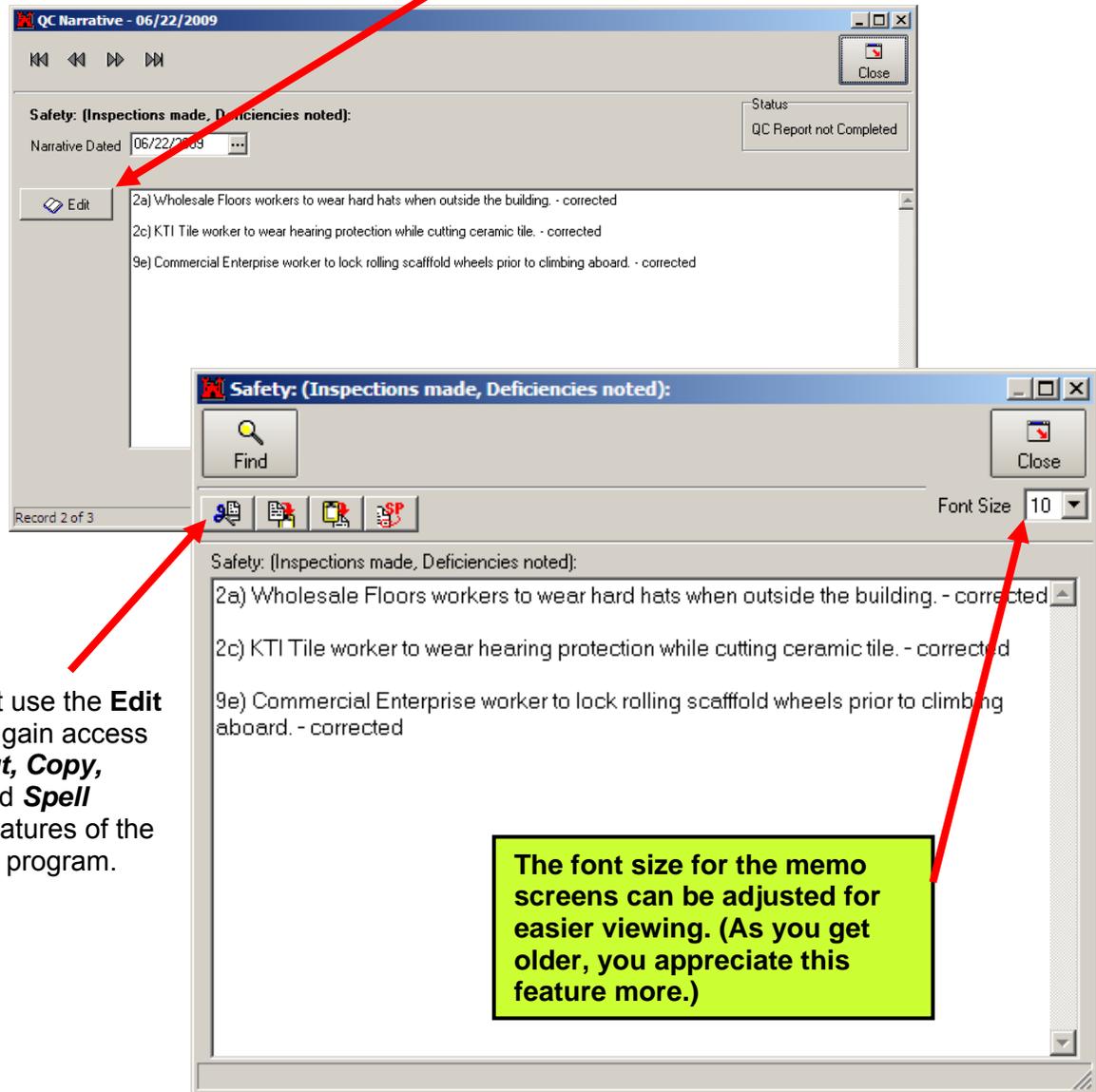
Contract Menu – Import / Export Screen

This is the screen where all exchange of data will take place between the Contractor (QCS Program) and the Government (RMS Program). The Contractor will also use this screen to import / export data from the scheduling system (i.e., Primavera) and an Excel spreadsheet for a submittal register.



Edit (Memo) Fields

Edit fields allow unlimited input into a Memo field. An **EDIT** button next to the field indicates them. One example is in QC Narratives, in the following screen. You have an unlimited amount of space to enter comments on a variety of QC topics. Only a certain number of lines display on the screen; however, more of the field can be displayed by pushing the **EDIT** button. This switches the field to full screen mode.

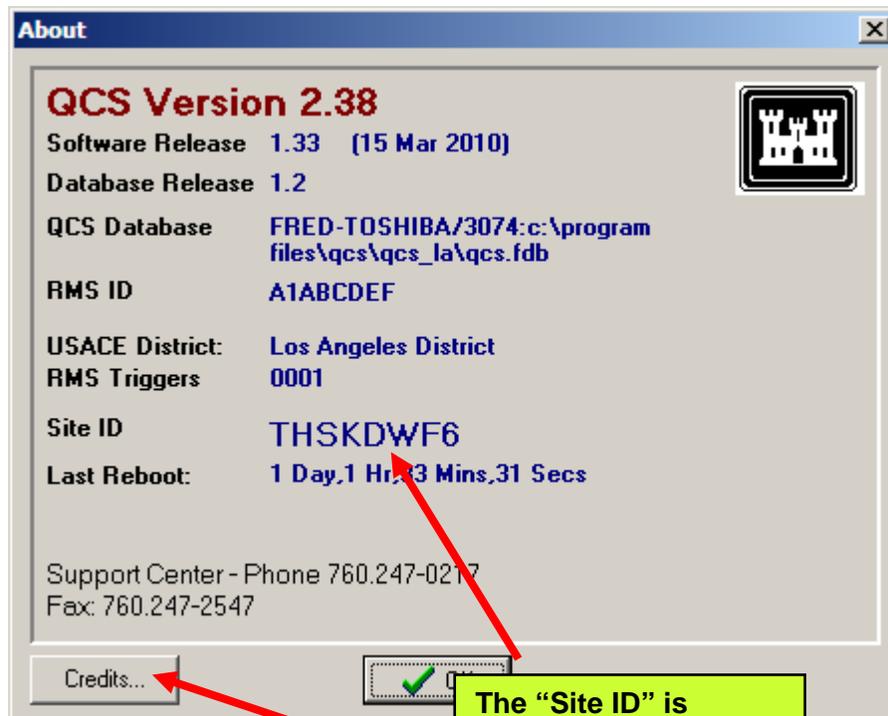


You must use the **Edit** button to gain access to the **Cut**, **Copy**, **Paste** and **Spell Check** features of the Windows program.

The font size for the memo screens can be adjusted for easier viewing. (As you get older, you appreciate this feature more.)

Help / About Screen

The Help/About Screen can be used to verify the version of your database and software, and shows where your database is located. This information will be needed if you run into technical difficulties and require assistance from the RMS Center.



The "Credits..." button identifies that QCS uses certain proprietary Software. That way, litigation is whole lot less likely.

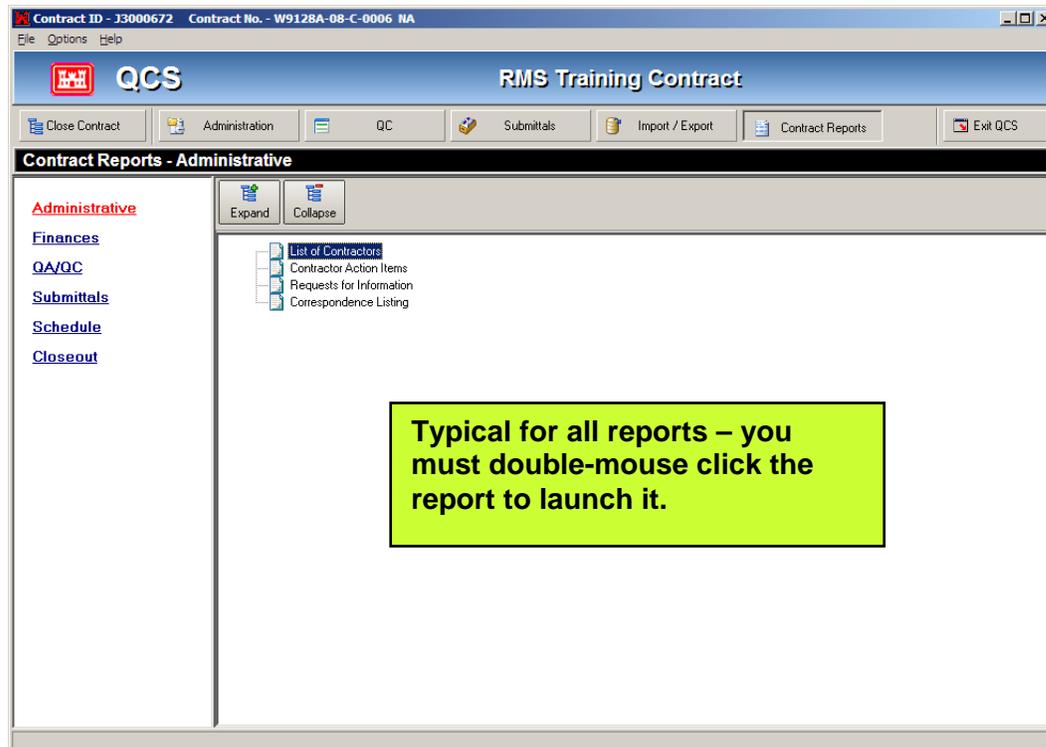
The "Site ID" is necessary to setup remote QCS sites and to exchange contract information with the Government RMS program.

The Reports Option

The **Contract Reports** option can be accessed from any menu or submenu and from most input screens. It has a menu structure similar to the main menu. You can request multiple copies of any report sent to the printer. You can export reports to a PDF File, an MS Word document (OBJECT,) or in HTML format. There are also reports that you can export to Excel.

From any menu, press the **Contract Reports** button and you are shown the report topics available. We will discuss the individual reports at the appropriate time.

You will often have the ability to choose various sorts and ranges for the reports, while others, such as the report entitled **List of Contractors**, will immediately print to screen to allow preview.



Action Item Report

It is highly recommended that the Contractor look at the **Action Items** report prior to any exchange of data with the Government -- especially prior to making a pay request. This report will let you know what needs attention. If you are requesting payment for some activity that shows up on the **Action Items** report, don't flip-out when the Government reduces the amount for that item to \$0.00 – they are only supposed to pay for work activities that have been completed, and that do not have outstanding issues with them.

The screenshot displays the QCS (Quality Control System) interface. The main window is titled "RMS Training Contract" and features a menu bar with options: "Close Contract", "Administration", "QC", "Submittals", "Import / Export", "Contract Reports", and "Exit QCS". A sidebar on the left lists various administration options, with "Action Items" highlighted and a red arrow pointing to it. The "CONTRACTOR ACTION ITEMS" window is overlaid on top, showing a printer icon, the title "CONTRACTOR ACTION ITEMS", and a range of "Items requiring completion on or before 03/23/2010". Below this, there are sections for "Date", "Include", and "Start" with various checkboxes and radio buttons.

CONTRACTOR ACTION ITEMS

Range Items requiring completion on or before 03/23/2010

Date Actions that need to be taken on or before 03/23/2010 (7 days)

Include

- All Subjects
- Selected Subjects
 - Missing Data
 - Payrolls/Insurance/SF1354
 - Correspondence
 - Modifications
 - Finances
 - Show Selection Criteria
- Quality Control
- Exposure Hours
- Submittals
- Schedules

Start

- Early Start Dates
- Late Start Dates

Contractor Action Items – Page 1



US Army Corps
of Engineers

CONTRACTOR ACTION ITEMS

RMS Training Contract
W9128A-08-C-0006 NA

04 Nov 2009

Schofield Barracks Area Office

Subcontractors Missing Critical Data						
Enter missing data in "Subcontractors"						
Responsibility Code	Contractor Name	Trade	POC Name	Amount Subcontracted	Status	
AEC	American Electric Co	Electrical	June Keaton		Missing Data	
IWAC	Island Wide A/C	Mechanical	Chris Kakigi		Missing Data	

Contractors Requiring Insurance / SF1413							
Enter expiration date for Insurances and signature date for SF1413 in "Contractor Insurances"							
Contractor	First Day on Site	Last Day on Site	General Insurance	Auto Insurance	Workman's Comp	SF1413 Acknowledged	Status
Acutron, LLC	06/18/2009		10/01/2009	10/01/2009	01/01/2010	11/10/2008	Submit documents
American Electric Co	08/31/2009						Submit documents
Douglas Eng'ng, Pac			06/26/2009	06/26/2009	06/26/2009		Submit documents
Economy Plumbing	12/24/2008		08/01/2009	08/01/2009	08/01/2009	11/10/2008	Submit documents
Fire Guys							Submit documents
IPR, Inc.	09/15/2009		04/06/2010		11/10/2009	12/11/2008	Submit documents
Island Wide A/C	08/24/2009		08/01/2009	08/01/2009	08/01/2009		Submit documents
Mech. Eng'rs of HI			09/11/2009	09/11/2009	09/11/2009		Submit documents
Sok Su, Inc.	07/28/2009		10/30/2009	11/30/2009	07/06/2010	01/27/2009	Submit documents

Contract Modifications Requiring Signature					
Sign SF-30 modification document and return to government					
Reference No.	Modification Title	Amount	Send by Government	Signature Due	Status
R00007	Provide Kitchen Equipment	133562	10/13/2009	10/20/2009	Not Signed

Daily QC Reports not Completed	
Enter Daily QC Report and mark completed "Daily QC Reports"	
QC Reports not completed for the following dates	Status
09/26/2009, 09/27/2009, 09/28/2009, 09/29/2009, 09/30/2009, 10/01/2009, 10/02/2009, 10/05/2009, 10/06/2009, 10/07/2009, 10/08/2009, 10/09/2009, 10/13/2009, 10/14/2009, 10/15/2009	Not Completed

Outstanding Deficiency Items				
Enter date corrected in "Deficiency Items"				
Item No.	Date Issued	Description	Location	Status
QA-00048	09/04/2009	Two locations identified as low and "bird baths" existed after rain. Location Biddy Basketball court		Not Corrected
QA-00049	09/14/2009	Panelboard L-1 has been damaged/bent. Remove and replace cabinet.	Elec Room	Not Corrected

QC Requirements Scheduled to be Completed in Next 7 Days						
Enter date QC Requirements are completed in "QC Requirements"						
QC Requirement No.	QC Requirement Description	Required for Activity	Activity Start	Lag/ Lead	Required Date	Status
CT # 00173	Compaction Test was conducted along the Fire Lane compacted trench in 2 different locations at 916.50 elevation. Performed by Construction & Engineering Lab with a report no. 6744. Percentage of compaction were 101% and 98%.	A0N128 - SITE GRADING, EXCAVATION AND F	02/17/2009A	0	02/17/2009	Reissued
CT # 00175	Conducted Compaction Test at Service Road subgrade soil foundation in two different locations. Performed by Construction & Engineering Lab with a report no. 7021. Percentage of Compaction are 93 & 96 respectively.	A0N166 - SUBGRADE PARKING AND ROADWAY,	08/13/2009A	0	08/13/2009	Reissued

Items requiring completion on or before 11/11/2009 (7 days)

Hardware/Software Requirements

Hardware

- IBM-compatible PC with 500 MHz Pentium or higher processor
- 128+ MB RAM for workstation / 256+ MB RAM for server.
- 1 GB hard drive disk space for sole use by the QCS system.
- SVGA or higher resolution monitor (1024x768, 256 colors).
- Mouse or other pointing device.
- Windows compatible printer. (Laser printer must have 4 MB+ of RAM).
- Connection to the Internet.

Software

- MS Windows 2000, XP, Vista, or Windows 7.
- Word Processing software compatible with MS Word 97 or newer.
- Latest version of: Netscape Navigator, Microsoft Internet Explorer, or other browser that supports HTML 4.0 or higher.
- Electronic mail (E-mail) MAPI compatible.
- Virus protection software that is regularly upgraded with all issued manufacturer's updates.

Installing the QCS Program

The **QCSetup<version>.exe** is the program that you will begin the installation with. Launch the program through your Windows Explorer, the **Run** command, or however you are used to doing that sort of thing. This is a self-extracting file and will create the necessary files and folders and complete the installation and set up your program. The window will close automatically when the extraction process is completed.

The program should install itself, asking only minimal questions. The program will tailor the installation to suit the computer it is being installed on. That is, the program will install a “new” program if one has not already been installed; it will install an “update” if the program is already installed on the computer and will determine each client or server requirement and automatically install/update what is required. Each screen and instruction is shown on the following pages.

Choices for Installing QCS

The program gives you three basic options to install and use QCS.

Single Stand-Alone System

Install a single stand-alone system (Client-Server on one machine). This machine will provide total control of QCS, including data entry and exchange of data with the Government. This could be the Home Office, Jobsite Trailer, and so forth. The installed program would have a unique Site ID and Title.

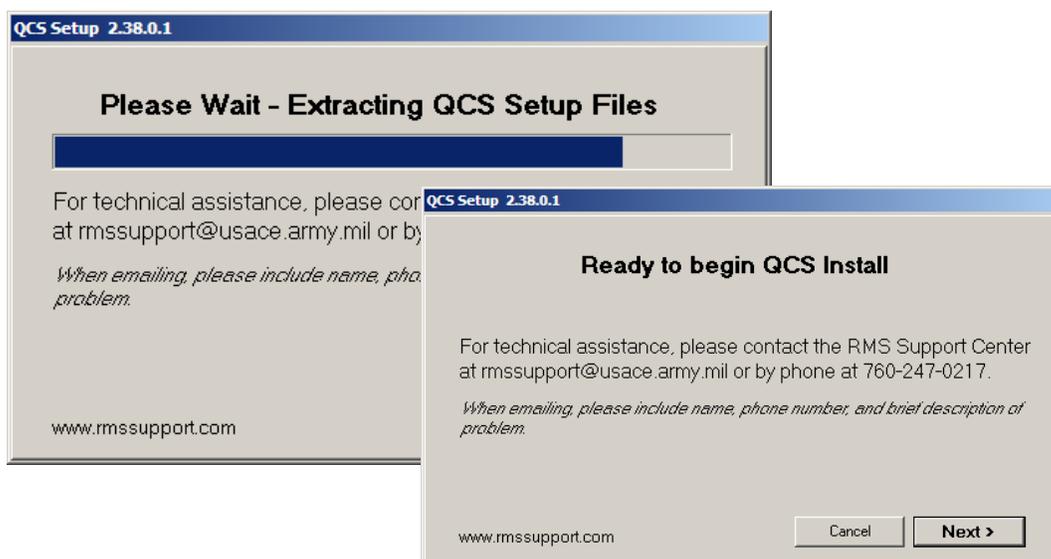
Multiple Stand-Alone Systems

Install multiple stand-alone systems (Client-Server on multiple machines). This will allow multiple locations to manage different parts of the QCS program. The Master QCS Site will delegate responsibility of various modules to different remote QCS sites. This could include the Home Office, Jobsite Trailer, Submittal Review Office, Payroll office, etc. Each office would have their own unique Site ID and Title and be able to exchange data electronically with the Master QCS Site. These remote sites must export the contract file from the Master QCS Site in order to register their Site ID and Title and be delegated any of the QCS Module responsibilities.

Installed on a Wide-Area-Network

Install QCS on a Local-Area-Network (LAN) or Wide-Area-Network (WAN) (Server and Clients connected together on a single network). These machines would all work on the same database and all machines would have the same QCS Site ID and Title. This set up could involve the Home Office Network, with several machines connected to it from within the Home Office and could also include WAN connectivity to remote sites (Citrix, VPN, etc.), depending on the capabilities of your IT setup.

First screen after launching QCSSETUP

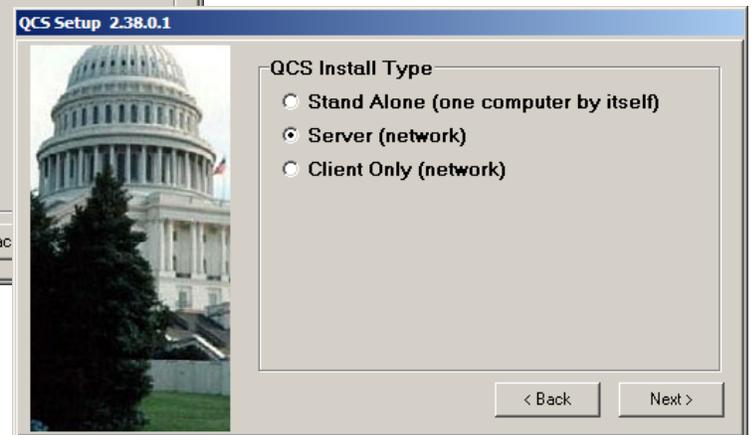


You are ready to begin installing the QCS program.



If you are installing an update, or reinstalling the program, QCS will detect it and install components as needed.

If you are on a *NETWORK*, you will most likely be setting up the program to be used by multiple users, at various workstations. In that case, you would typically install the QCS “Client” on each computer workstation and the QCS “Database” on a server. In this example, we will install the program on a “stand-alone” machine. This requires both the **CLIENT** and the **SERVER** to be installed.



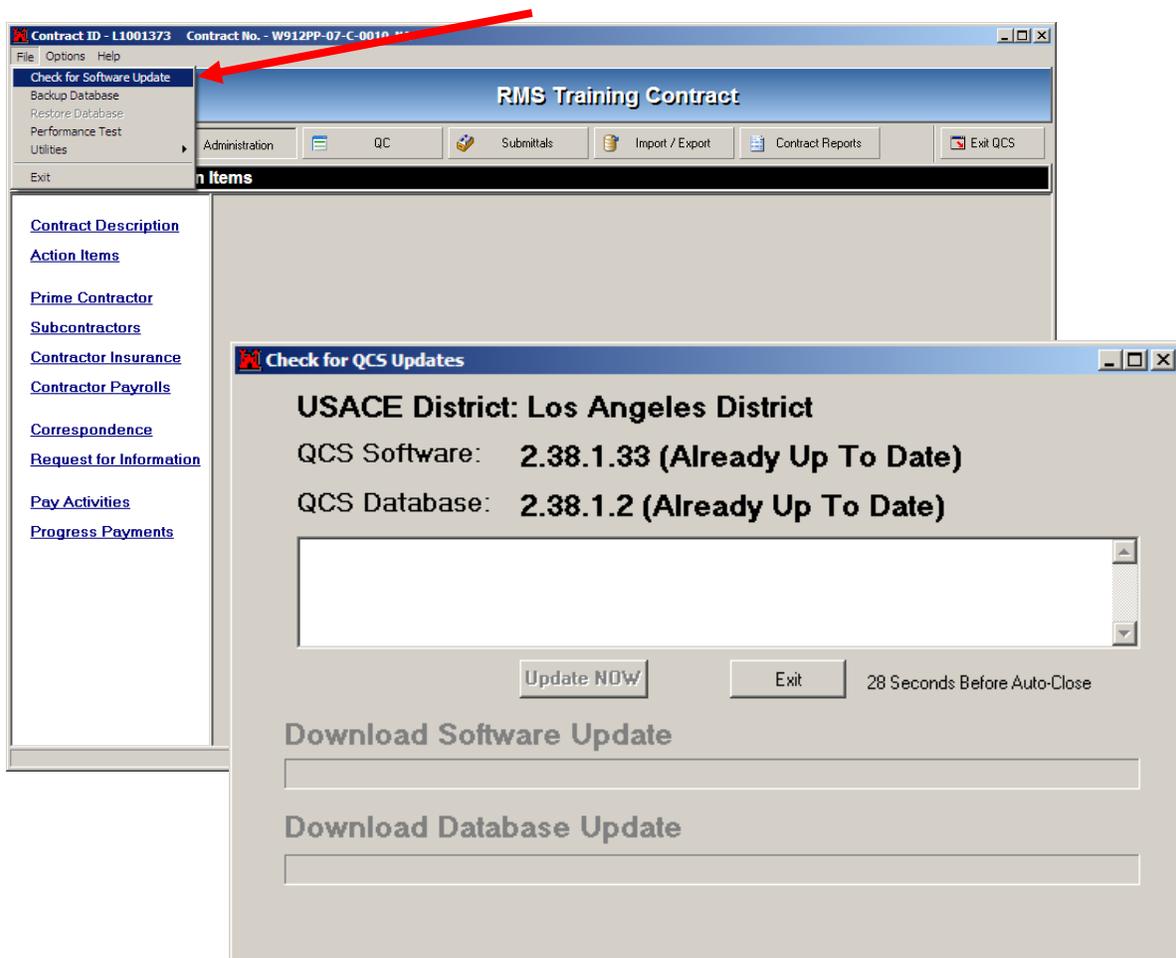
If you are installing the QCS as a “Server and Client” system (not on a network, but on a single computer station) you must select “Stand Alone (one computer by itself) to install both the QCS program and the database (Firebird©) on that computer.

For the most part, you should accept the default recommendations of the install program.

Updating the QCS Program Software

Periodically you may want to go to **File/Check for Software Update** and download any available QCS updates. The selection will evaluate whether or not you need an update. Each time you launch the program (if connected to the Internet) the program will automatically install the update for you. Otherwise, it will tell you that the installed Software and Database is already up to date.

When you first launch QCS (each day) the program will check to see if you have the latest updates automatically and advise you accordingly. The update windows will time out in just a few seconds.



Running the QCS Program

Go to **Start / All Programs / QCS /** and select the **QCS** red-castle icon to start using QCS. Or, double mouse-click on the Icon that was installed on your windows desktop.

The first time you login, you MUST sign in as **QCSMASTER** and use the password “**masterkey**” If you have installed multiple QCS databases the password may not be “**masterkey**”, it will be what ever you have changed the other QCS password too, as the Firebird database is running all of your QCS programs.

After the initial sign-in process you will see this screen with the last person’s User ID that used the program.

Depending on if you are installing a totally new Firebird Database you may see the word “SYSDBA” instead of “QCSMASTER” in this position. The procedures otherwise remain the same. You may change your password anytime and as often as you wish.

Entering a QCS Site Title

When a QCS program is installed a **Site ID** is automatically assigned with each program (site) installation. You must know this information prior to setting up a remote site. You can view the information in the **Contractor Library, QCS Site Description** screen and on the very top of the opening screen of QCS. You can have an unlimited number of remote QCS sites and all would have their own assigned Site ID and Title. Sites that are listed in the Master QCS Site, but not delegated responsibilities for a module, will be “Read Only” sites.

The first thing you will be required to do is to enter your QCS Site Description information. The program will automatically take you to this screen. This is the minimum data you **MUST** enter:

QCS Site Title

Primary Point of Contact: Name AND either a telephone number OR an email address.

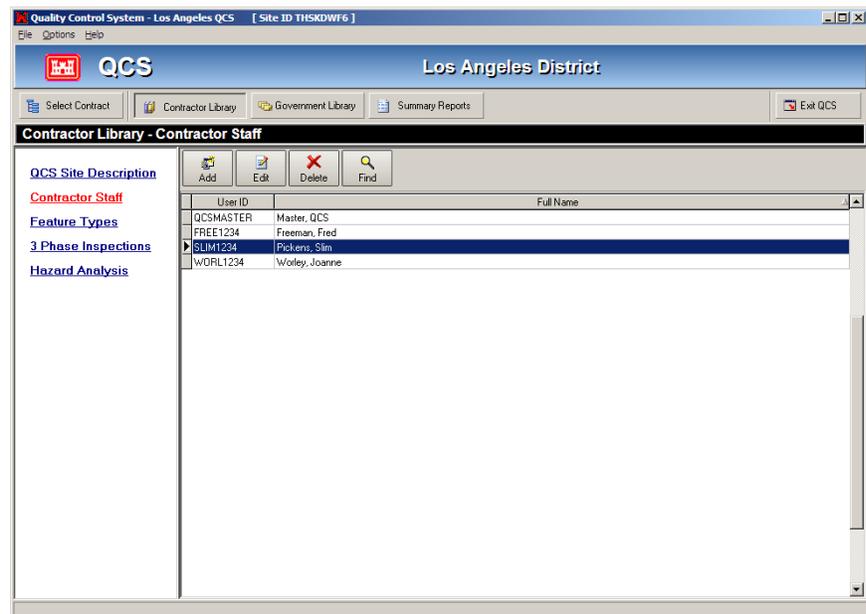
Next, you **SHOULD** add one or more STAFF members to the program.

Push the **Contractor Library** button on the top of the opening menu bar, and select **Contractor Staff**.

Contractor Library – Contractor Staff Screen

The User ID is automatically listed as **QCSMASTER**. You should change the password and add other users that will use the program.

Push the **Edit** button to change the password. You must first use “**masterkey**” as the default password.



Add additional users to the system, by pushing the **Add** button. **Close** the screen when complete with entries.

Add New User Screen

You can check the **Change Password** box anytime to change your password to something you will remember. It is also used when another Staff member forgets their password.

You must then login to the QCS program using your “**User ID**” and “**Password**”.

Close

User ID: SLIM1234

First Name: Slim

Last Name: Pickens

Abbreviated Name: Slim

Change Password

New Password: xxxx

Confirm Password: xxxx

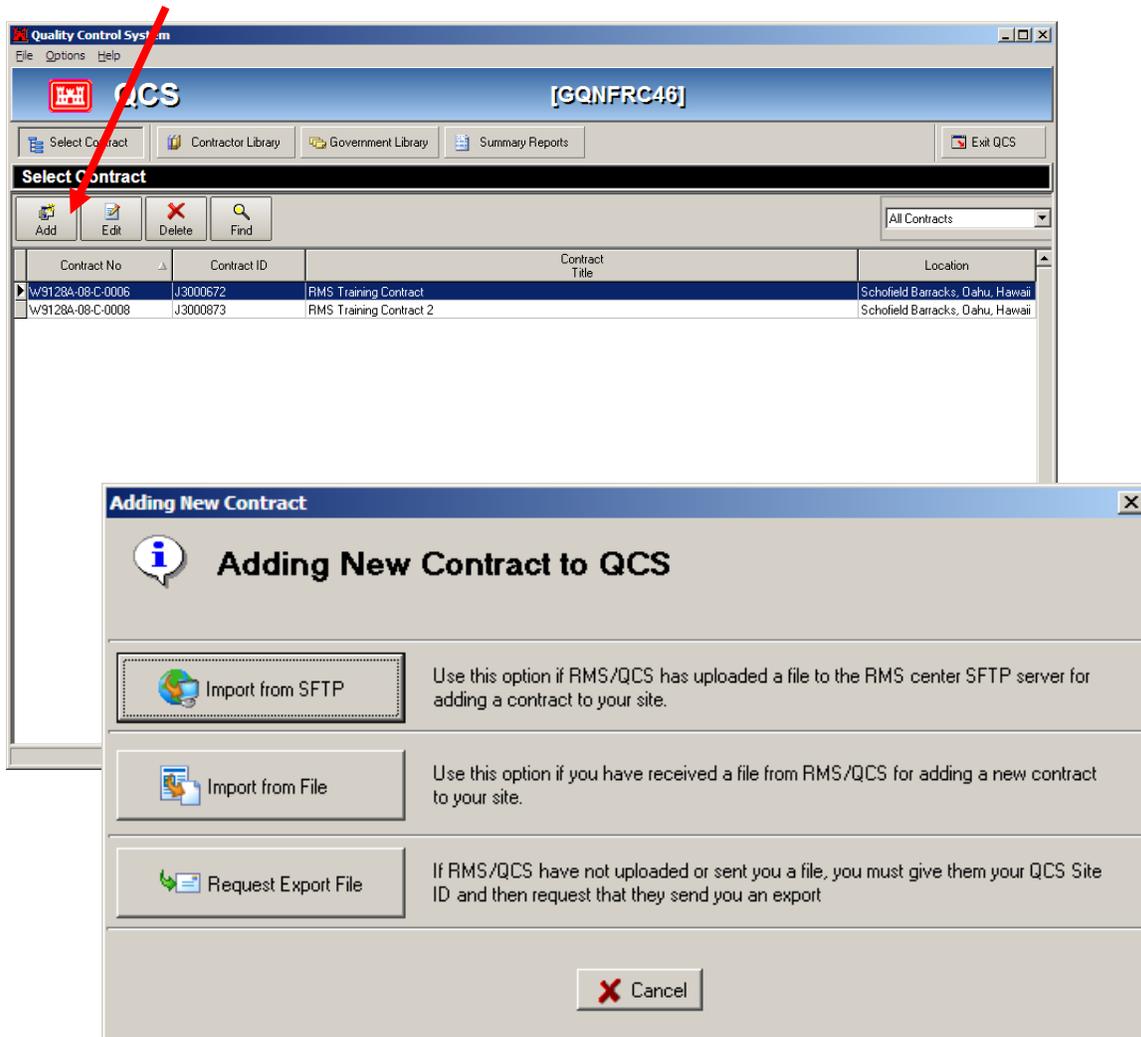
You are now ready to add a contract to the QCS program.

Adding a Contract to the QCS Program

The contract must be exported from the Government's RMS program prior to importing to the QCS program. You cannot use the QCS program independent of the Government's RMS program. The Government's RMS program must be setup to indicate that the "Contractor will use the QCS program." There are three options you have to add a contract to your QCS database:

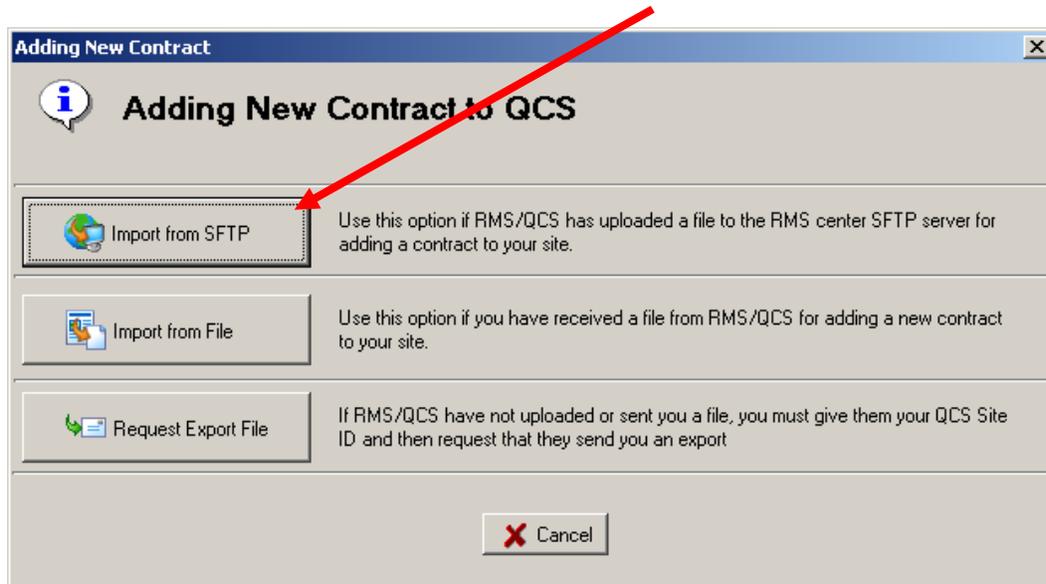
1. Import from the RMS Center SFTP Server
2. Import a File provided from RMS/QCS
3. Request an Export file if you have not yet received one

Push the **Add** button to start the process of adding a contract.



Import from RMS to QCS Using SFTP Server

When the Contractor is ready to import the project into his QCS program, he must first be advised by the Government of the **Contract ID** number (i.e., **J3000958**). The Contractor will then import from the SFTP site, as follows.



Enter the **Contract ID** here (The Government must provide this number for you):

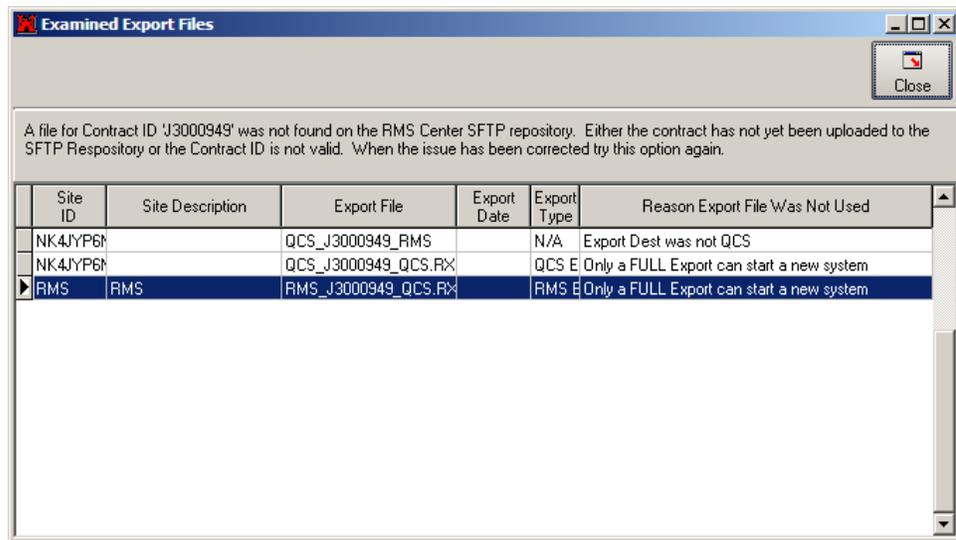


Push **OK**.

QCS will complete the import and it will then appear on the **Home** Menu of the program (opening screen).

Quality Control System

If you do not use, or enter an incorrect **Contract ID** number, the following messages may appear:

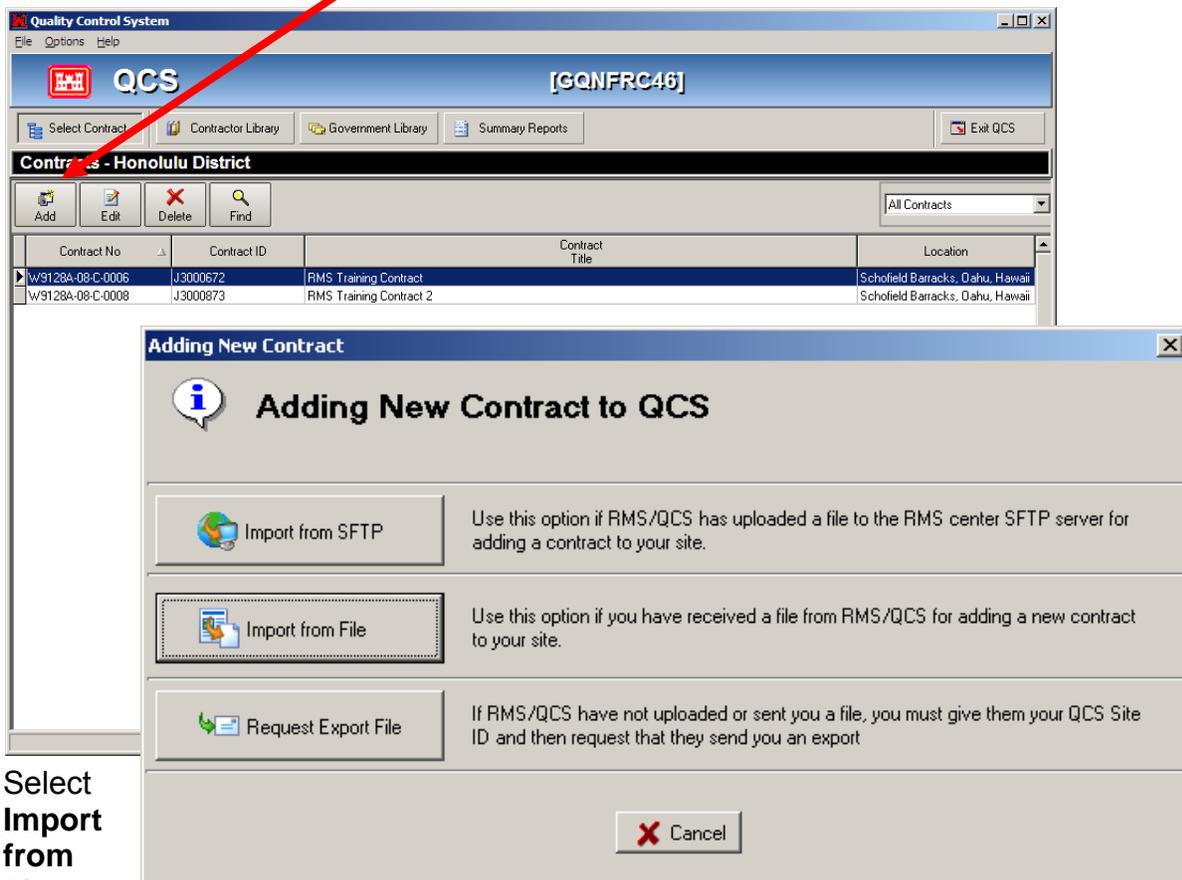


Or, you may see this message:



Import from RMS into QCS by Exported File

The procedure for adding a contract via an Import file is very similar to using the SFTP server. The first step is to push the **Add** button on the **Home** menu.

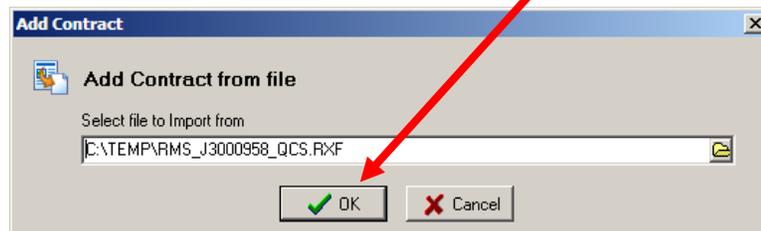
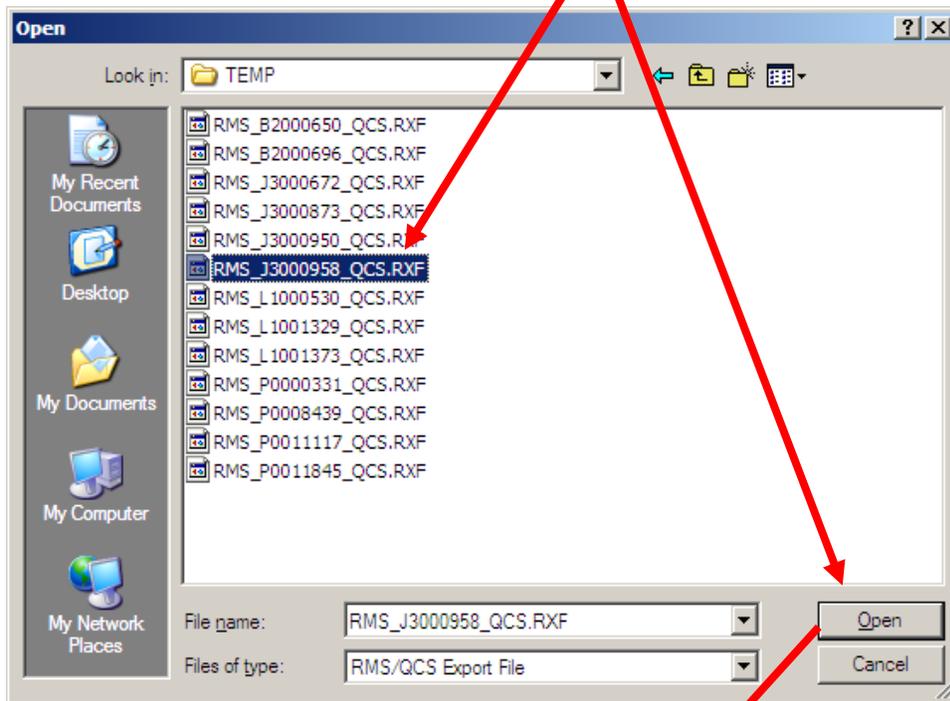


Select **Import from File**.

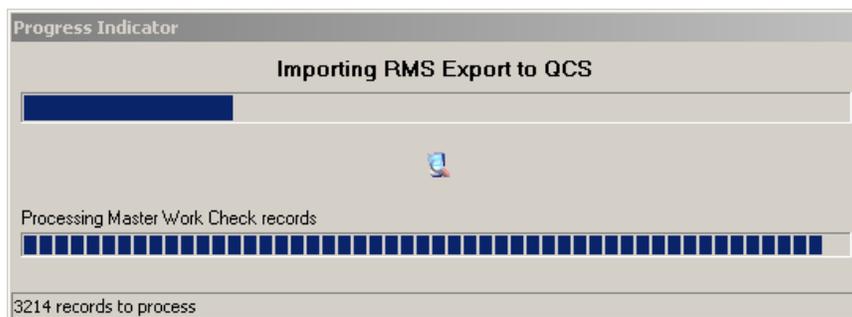
Use the *Browse* button to locate the desired file.



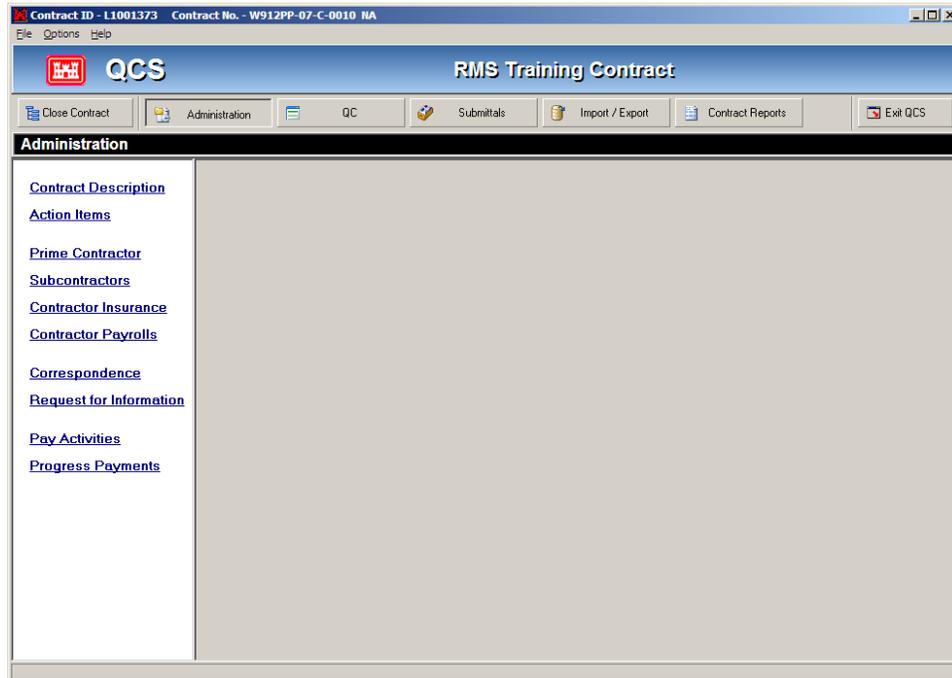
Locate and highlight the file and then push **Open** followed by **OK**.



QCS will then import the file.

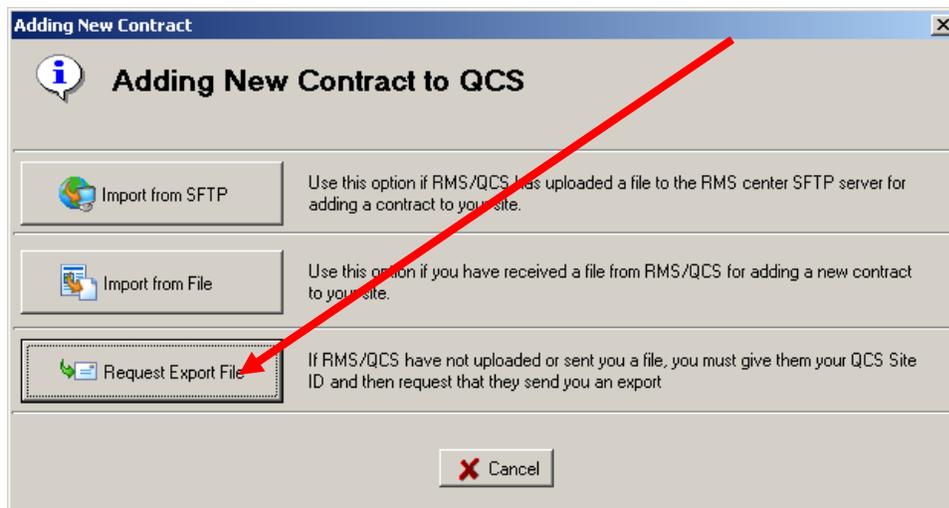


When the import is complete, the program will automatically open the contract to the **QCS Contract Menu/Administration** screen, as shown below. (An exception to this opening screen would be if the Government had already responded to an RFI, and this is the first setup, you will be taken to the **Import/Export** screen to login the RFI's.)



Request Export File for Adding Contract

As above, when you push the **Add** button on the main menu, select **Request Export File** if you have not yet been provided one by the Government or the Master QCS Site. The next screen will provide instructions on getting the export file. In either of the cases, you will need to have your site registered to be able to import (Add) a contract.



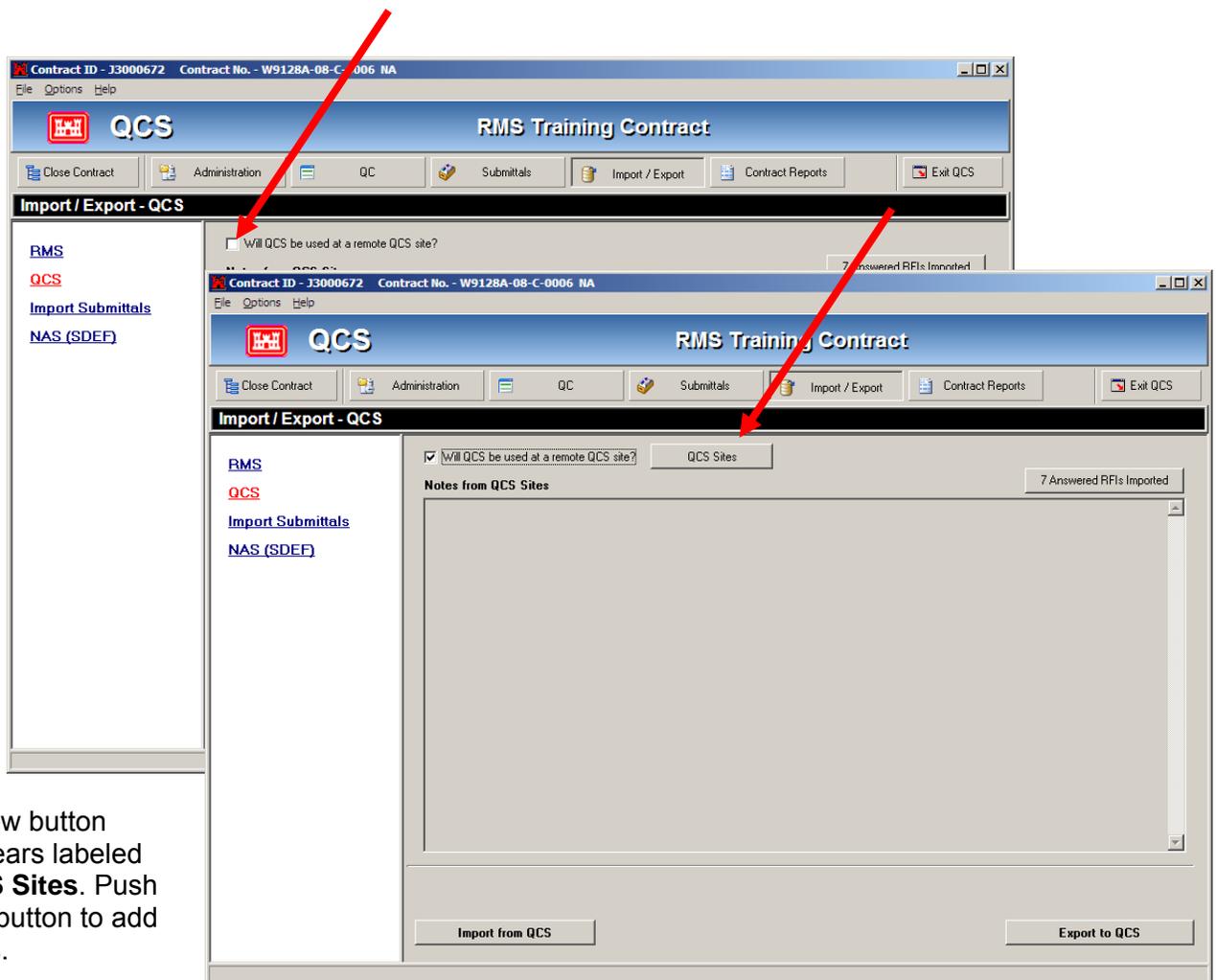
Again, this message may appear at this point in the process:



Adding a Remote QCS Site

If you will be using remote sites for management of QCS, the remote site must be recognized by the Master QCS site and assignments delegated to each remote site as appropriate. Following the installation of the QCS program, each site receives a unique QCS Site ID. It is this number and title that must be provided to the Master QCS Site. Only the Master QCS Site can assign (add) Remote QCS Sites.

QCS Sites are entered (added) from the Import/Export screen, as shown below. If QCS will be used at remote sites check the box here.



A new button appears labeled **QCS Sites**. Push this button to add sites.

Quality Control System

Initially, this screen will only list the QCS site of your computer (i.e., Manuals). To add new sites, push the **Add** button at the top of the screen and enter you Remote QCS Site information. You can then assign any desired Modules to your new Remote Site.

Remote QCS Site

Remote QCS Site Title:

Site ID:

QCS Sites

Close

Add ... Edit ... Delete ...

Remote QCS Sites
[97X6wK4H] Payroll/Insurance Clerk

Modules Assigned To

QCS Master Site: [GQNFRC46] Manuals ...

Home Correspondence: [GQNFRC46] Manuals ...

Site Correspondence: [GQNFRC46] Manuals ...

Request for Information: [GQNFRC46] Manuals ...

Contractor Insurance: [97X6wK4H] Payroll/Insurance Clerk ...

Contractor Payrolls: [97X6wK4H] Payroll/Insurance Clerk ...

3 - Phase Checks: [GQNFRC46] Manuals ...

Spec Sections / Submittals / Transmittals: [GQNFRC46] Manuals ...

Daily Reports / QC Requirements / Equipment: [GQNFRC46] Manuals ...

The following Modules are updated from your Network Analysis System (SDEF).
When importing the SDEF file, all of the following modules must be assigned to the site importing the file.

Pay Activities: [GQNFRC46] Manuals ...

Activity Schedule: [GQNFRC46] Manuals ...

Progress Payments: [GQNFRC46] Manuals ...

Prime Contractor / Subcontractors: [GQNFRC46] Manuals ...

Features of Work: [GQNFRC46] Manuals ...

The thing to keep in mind when using Remote QCS sites is the fact that the data most current should always be from the Remote Site that has the particular module assigned to it. When it comes to importing your schedule (SDEF File), the site that “owns” the **critical** data should always do the import of the SDEF file. This is only important at the time of the actual import of the SDEF file. You can have all the modules assigned to different QCS Sites for the normal work day, but when it comes time to do the SDEF import, the modules need to be reassigned to the site that will do the actual import. After the import is successful, then the various modules can be reassigned as before.

These are the modules considered to be critical and that must be assigned to the QCS Site that is going to do the SDEF import:

1. Pay Activities
2. Activity Schedule
3. Progress Payments
4. Prime Contractor / Subcontractors
5. Features of Work

The reason these are so important is that they come directly from the SDEF schedule – the other modules do not.



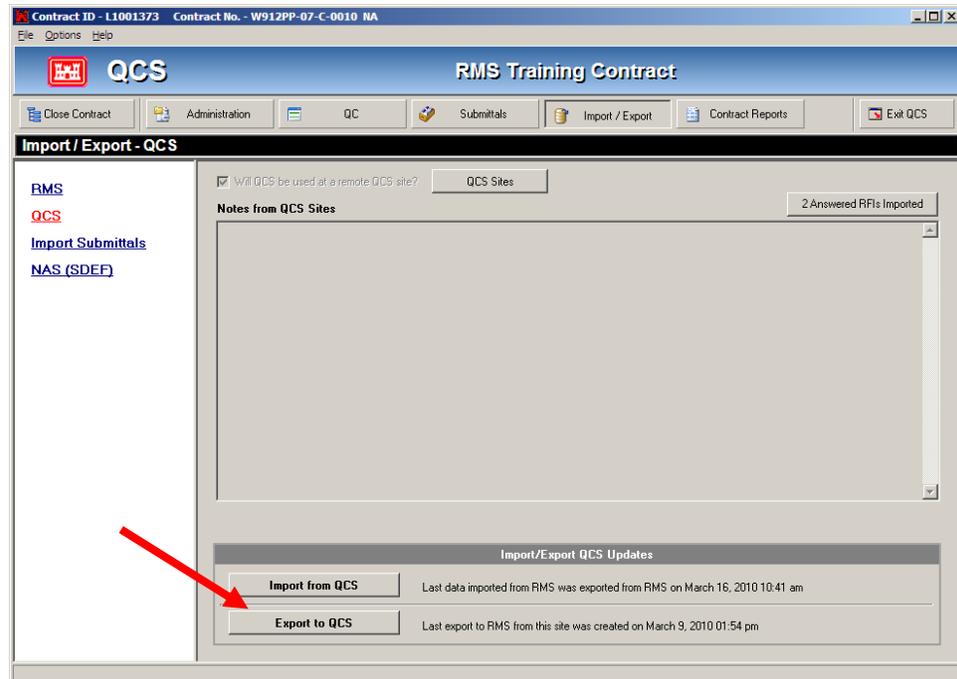
This procedure is changed as of this new version of QCS. The bottom five (5) items MUST be assigned to the office that is importing the SDEF file from the scheduling program.

The procedure for exporting to a remote site is the same as importing and exporting to the Government.

Each of these modules can only be assigned to a single Remote QCS Site. All other sites will be *Read Only* for modules assigned elsewhere.

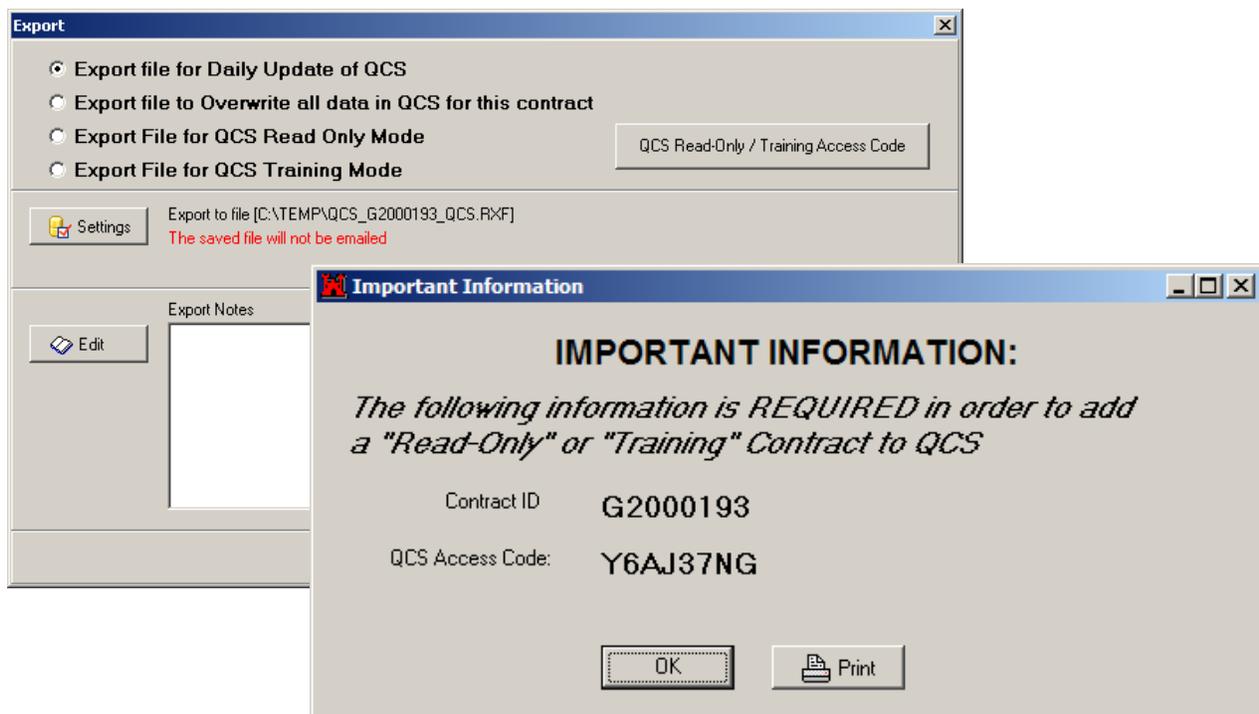
Exchanging Data with a Remote QCS Site

Master QCS Site



From the **Import/Export** screen, choose **QCS** and then the **Export to QCS** button at the bottom right of the screen.

This version of the program also gives you opportunity to use your QCS program for training, and all exports/imports will be sent and/or retrieved from a special training server. This way, the real (live) data between the QCS program and the Government will not be corrupted.



The procedures to exchange data between the Master QCS Site and the Remote site are the same as between the Master QCS Site and the Government.

The Remote QCS Site can only exchange files directly with the Master QCS Site. The areas that the Remote Site does not control will be "**READ ONLY**" for such modules. The Master QCS Site will also be "**READ ONLY**" for areas designated to be assigned to the Remote QCS Sites.

Warning! On use of Remote QCS Sites

If you are going to use the Remote QCS feature, it is very important that the QCS programs frequently exchange files with each other and that the Master QCS Site exchanges data with RMS. The reason for this is two fold. First, it helps to ensure data integrity between the two programs and, secondly, it is needed to maintain manageable file sizes for the exports and imports.

Exchanging data frequently will ensure that each site is up to date with the most recent data. If for some reason a site becomes inoperative then RMS can send a full **overwrite file** to get them back on track. However, if the last time an export was done to RMS/QCS was over a week or two then you may have quite of bit of data entry to manually catch up with.

If all RMS/QCS sites are exporting and importing frequently, then it is very common for the file size to be less than 1 Megabyte in size. If you are on a remote site that does not have DSL a file less than 1 megabyte in size will be very helpful.

If you have a site that is no longer being used then please remove it and then promptly do an export to your other sites and RMS. Failing to remove a site that is no longer in use can result in data loss and a tremendous increase in the export file size.

An explanation of Site ID's and Titles

The Site IDs are generated during the QCS Setup process. A basic description of the overall process follows.

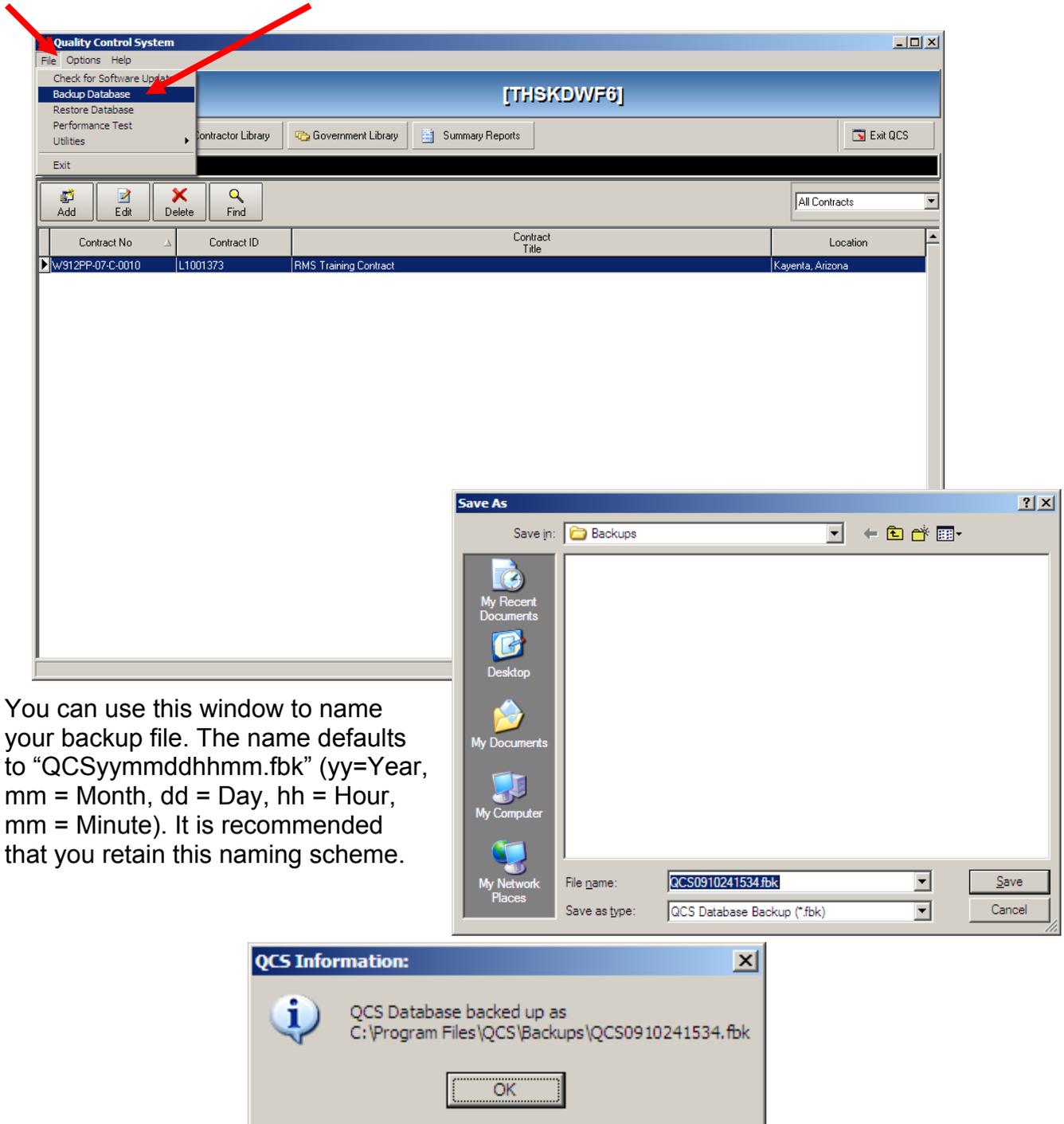
- When RMS begins to use a contract that has been designated to use QCS, there is no Master QCS site identified. So, RMS prompts you for the Master QCS site information and sends full exports from RMS to QCS. Until RMS gets confirmation back from the Master QCS site (via an import), it will allow you to change the Master QCS site ID and it will continue to send full exports.
- Once RMS hears back from the Master QCS site, then RMS is out of the site ID business and it will send normal daily exports and will no longer ask you about the Master QCS Site ID.

Quality Control System

- If the Master QCS Site is required, for one reason or another, to be transferred from one QCS program to another, RMS has the capability to UNLOCK the initial assignment and assign the contract to another Master QCS Site. The RMS program requires a Government Office Administrator, or a System Administrator to accomplish this transfer.
- Only the QCS master site has the option to add additional QCS sites. To do so, the Master QCS site goes to the export screen and clicks on the little check box on top of the screen saying "**Will QCS be used at a remote QCS site?**" That checkbox turns on a button for QCS sites and the Master QCS site can then click on that button and add additional sites and assign various modules as appropriate. To add a site, the QCS Master site will need to have the Site ID and Title for the Remote QCS sites.

Backup Database

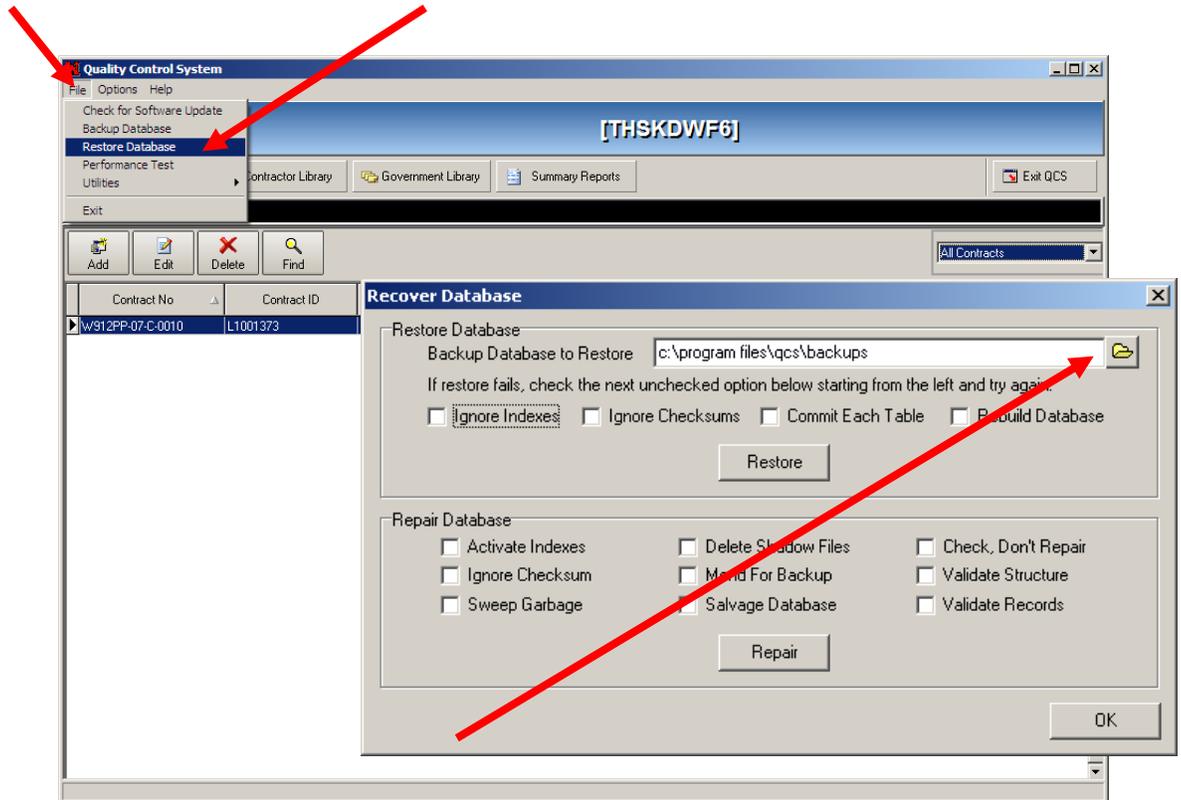
This backup utility allows the User to have multiple backups. Click on **File** and scroll to **Backup Database** for access to this feature.



You can use this window to name your backup file. The name defaults to "QCSyymmddhhmm.fbk" (yy=Year, mm = Month, dd = Day, hh = Hour, mm = Minute). It is recommended that you retain this naming scheme.

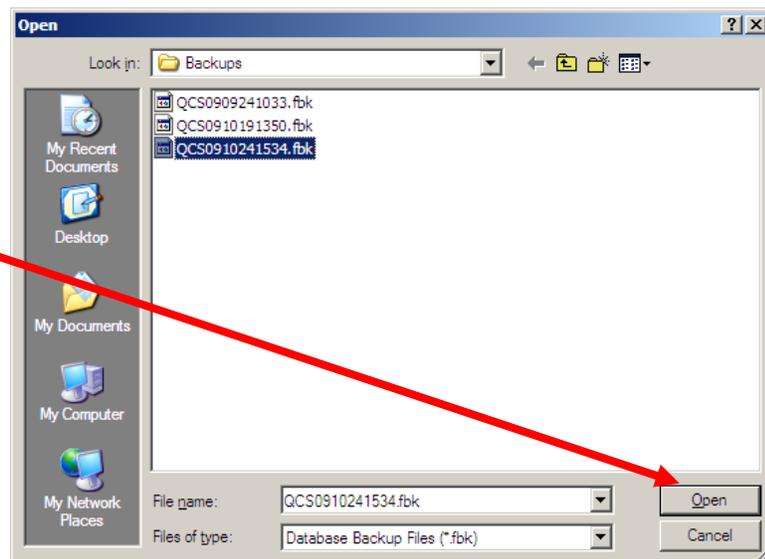
Restore Database

This restore utility allows the User to recover a backup from the available files or to repair an existing database. Click on **File** and scroll to **Restore Database** for access to this feature.



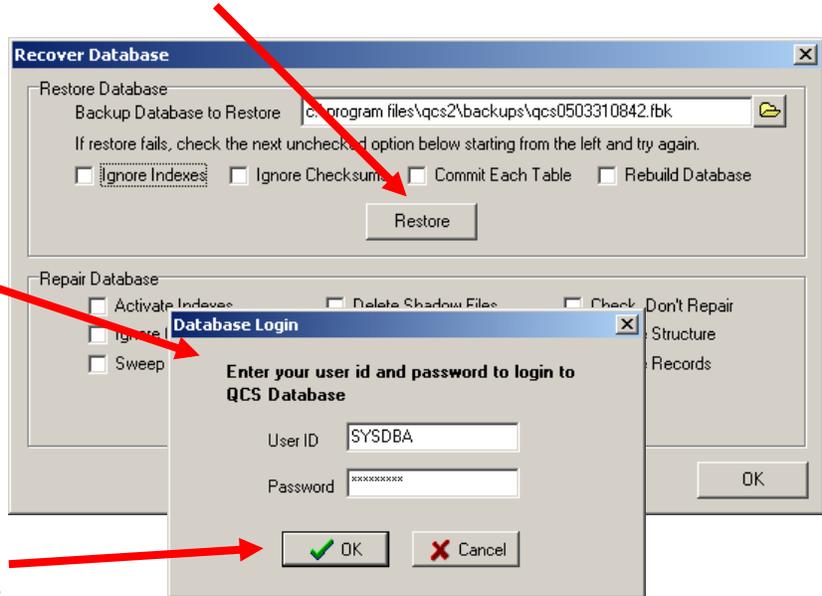
This screen is pretty much self-explanatory. The first thing you will need to do, if you wish to restore a database is to select the one you want to restore. Use the lookup for this purpose and make your selection.

Push **Open** after your selection.

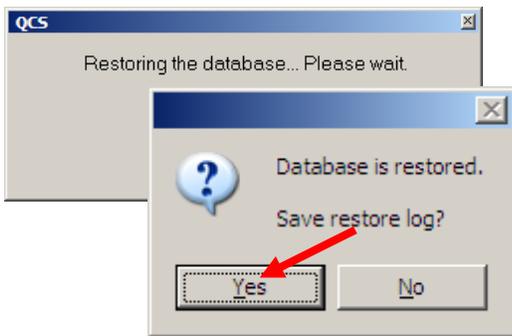


Push the **Restore** button to begin the actual process to restore the contract.

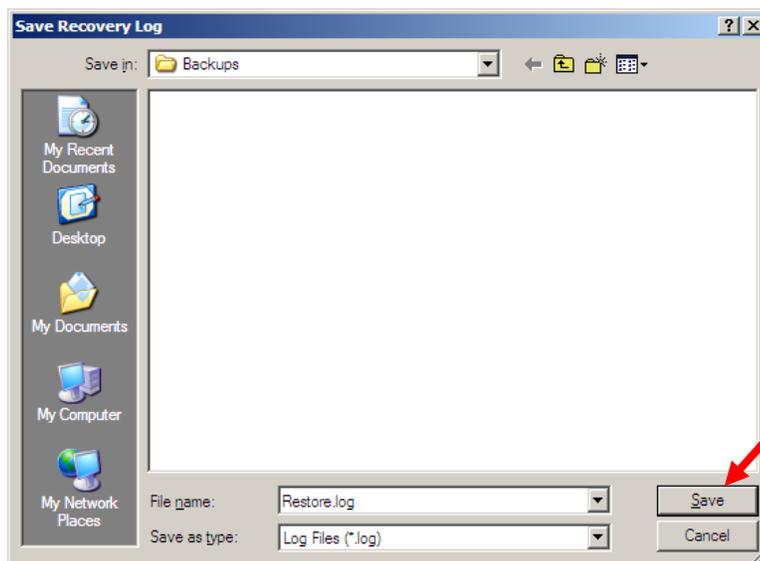
You will then be provided with a login screen to assure you have the proper "rights" to restore the contract.



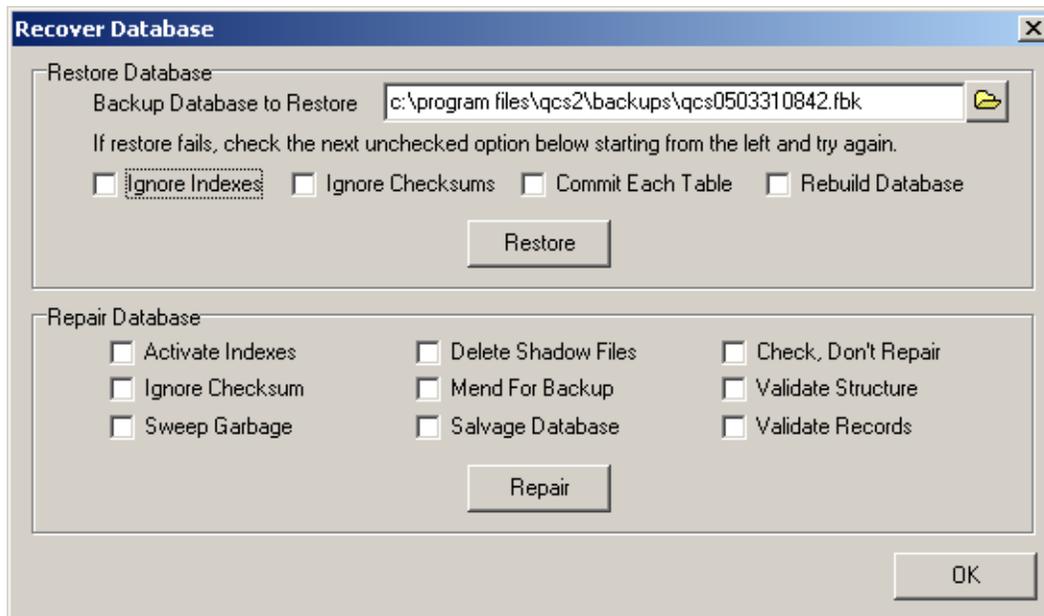
Push the **OK** button to proceed.



The database will be restored and you will then have the option to save a log to document the restore. This log will be useful if you run into difficulties and need the support of the RMS Center. Select **Yes**, and then **Save** to keep the log.

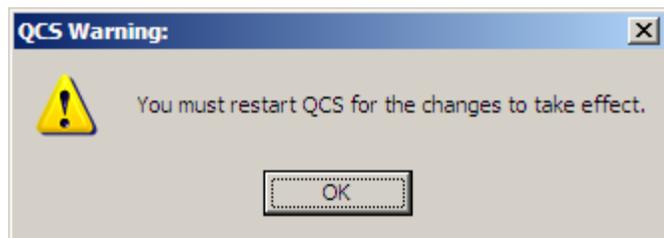


You will then be returned to this screen. If the restore FAILS, read the instructions and try each option. If you continue to have problems, please contact the RMS Center.



After you restore or repair your database you should exit from the QCS program and restart it for the changes to take effect.

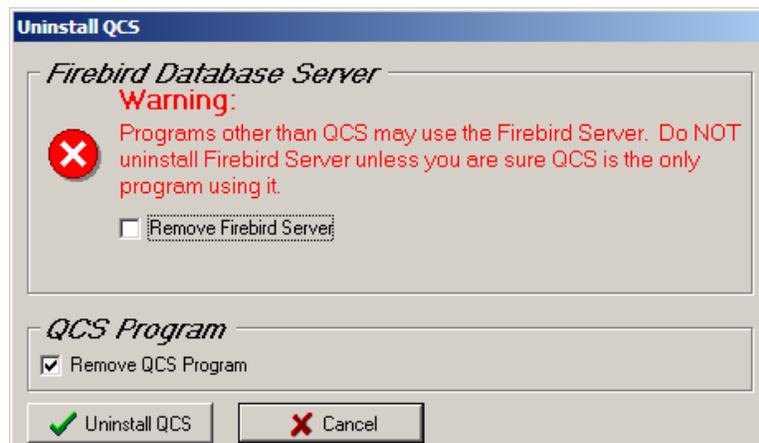
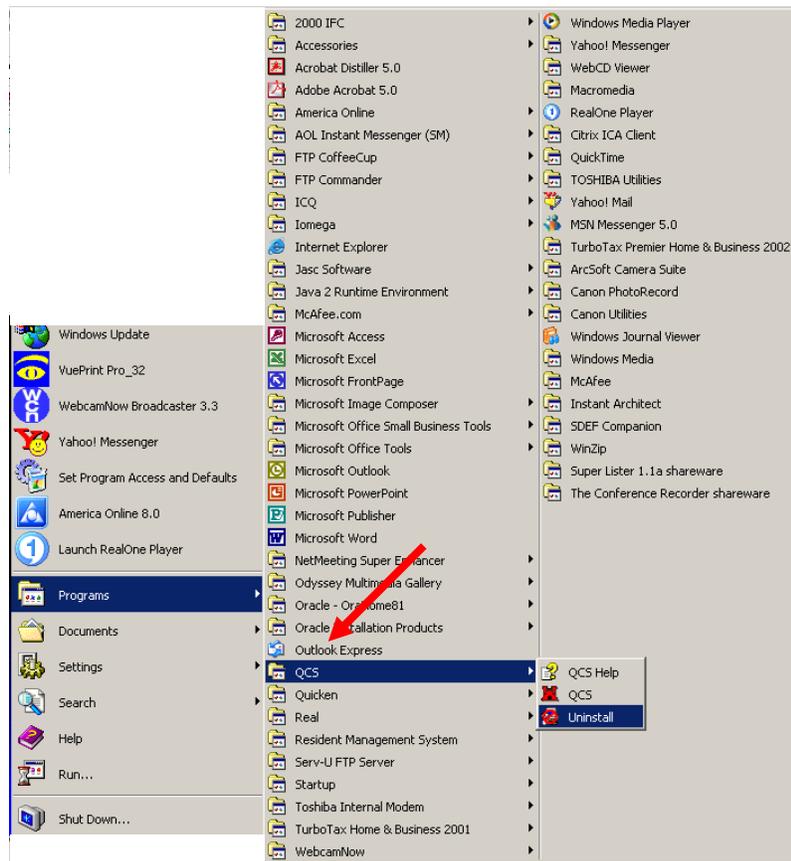
Restore in QCS can only be done from the server itself. (A client can trigger a **Backup**, but not a **Restore**.) When a User enters an IP address, instead of a server name, the restore routine states that restores can only be done from the server. The *Server Name* is now compared to the IP address of the machine that is running QCS. If they are the same, **Restore** is now permitted.



In order to access the **Restore Database** function you must be at the MAIN QCS screen. That is, not from within a contract screen. The reason should be obvious: when you restore a database, you are restoring ALL contracts within that database, not just a single contract.

Uninstall the QCS Program

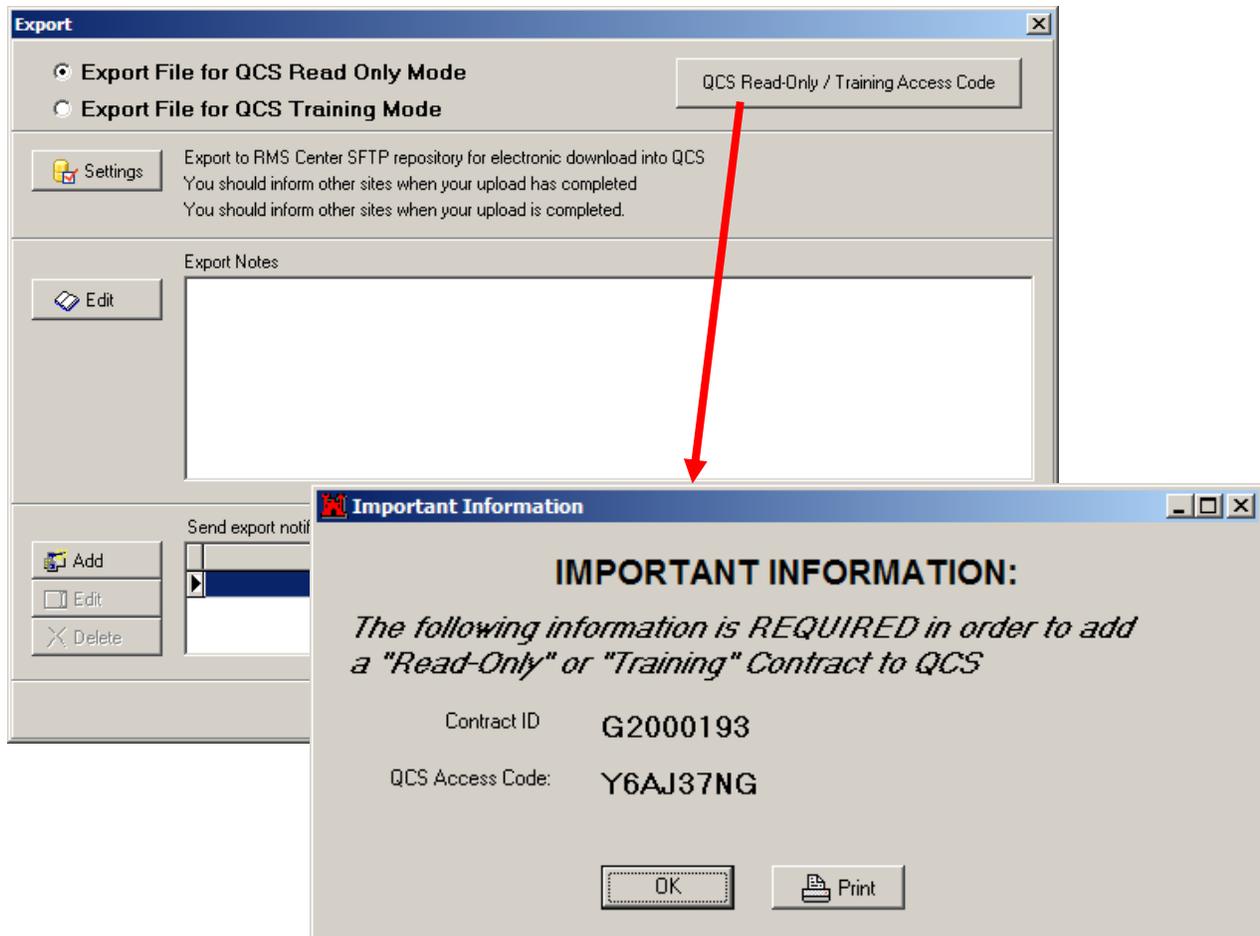
QCS has a fully functional “Uninstall” feature. This uninstall also provides the capability for uninstalling just the Firebird server.



Training Mode Support

Exports to Government SFTP Training Site

Two of the RMS Center programs, QAS and QCS, can be placed in a “Training Mode” to allow for things like training or troubleshooting. When in “Training Mode” the files can be retrieved from the SFTP Server. You won’t have to worry about clobbering your real data because nothing can be exported from the training programs. While in “Training Mode” you are only able to IMPORT files and review them and manage them, but will not be able to EXPORT anything back to the system you downloaded from.



Installing QCS for more than one Corps District

If you are managing contracts from different Corps of Engineer Districts (such as New Orleans and Louisville), you must ensure that you install separate programs and the associated databases in separate folders within your windows program. The following screen shows some of the variations you may need to incorporate.

This screen shows an installation for QCS Version 2.37 (and would be for ONE Corps of Engineer District). Thus, you can have both version 2.37 and 2.38 installed on the same computer. In addition, there are separate folders for different Districts – that is, a folder each for Honolulu, Louisville, GRD (Gulf Region District), LA (Los Angeles District) and NO (New Orleans District). You will want to name them something you can recall. You can see that “LA” would be better displayed as “Los Angeles”.

The screenshot displays a Windows Explorer window showing the directory structure for QCS. The left pane shows a tree view of folders, including '2.37', 'Backups', 'Honolulu', 'Louisville', 'QCS_GRD', 'QCS_LA', and 'QCS_NO'. The right pane shows a list of files and folders, including 'QCS.7z', 'QCS.chm', 'QCS.exe', 'QCS.FDB', 'QCS.ini', 'QCSSchema-20091123121307.log', and 'QCSSchema-20100217111323.log'. A red arrow points from the '2.37' folder in the left pane to the 'QCS Setup 2.38.1.27' window.

The 'QCS Setup 2.38.1.27' window shows the 'QCS Update Steps' dialog box. The 'Install Empty QCS Database' checkbox is checked, and the path 'C:\Program Files\QCS\Seattle\QCS.fdb' is entered in the text box. The 'Update QCS Software' checkbox is also checked, and the path 'C:\Program Files\QCS\Seattle\' is entered in the text box. A red arrow points from the 'Update QCS Software' text box to the 'QCS Setup 2.38.1.27' window.

Each Corps of Engineer District would show up in a separate FOLDER in your Windows Explorer. Displayed here are some examples.

During the installation, ensure that you CHANGE the default installation paths for both the database and the software. This screen shows how you would install the “Seattle” District in a separate folder.

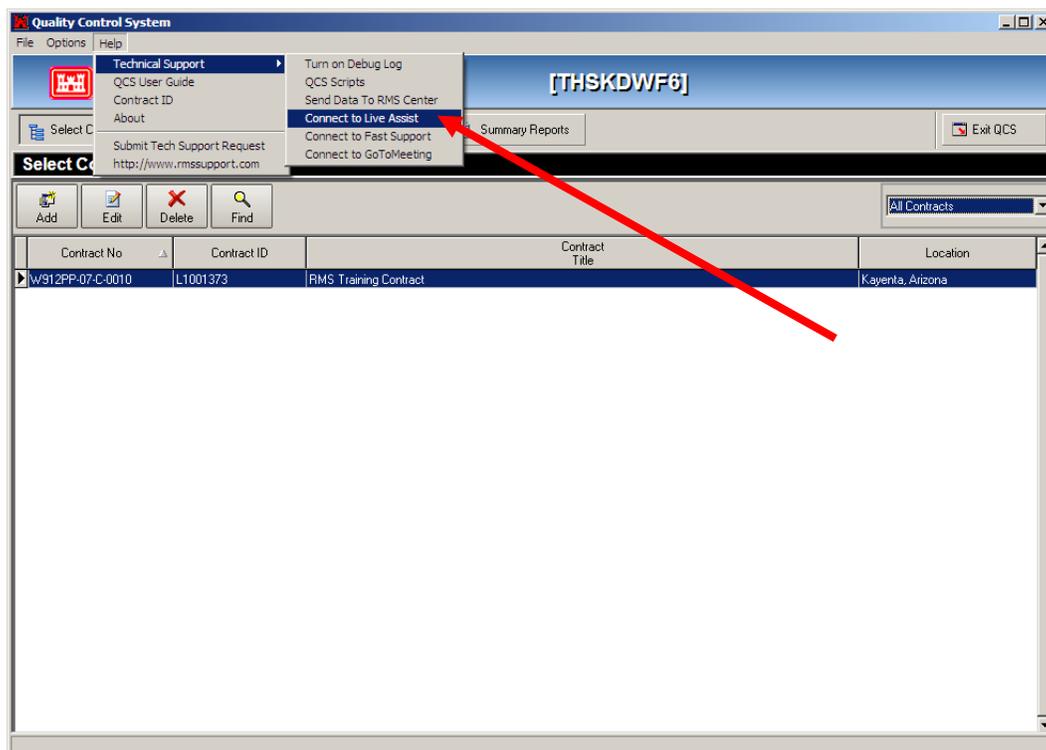
Technical Support

Your Government Quality Assurance representative should be available to answer any questions you have regarding the QCS program. In addition, there is an RMS Support group that may also be of some benefit. You may email your questions/problems to **RMSsupport@usace.army.mil/**. There may be, however, a few days between the time your message is sent, and a reply is received. You may also call the RMS Center at (760) 247-0217 (0700 – 1500 Monday-Friday, Pacific Standard Time).

Onsite QCS Training is available for contractors for a fee from the RMS Center or from a Contractor that works with the RMS Center. Occasionally, the Government will coordinate training and arrange for RMS/QAS/QCS training all within the same time period to save and/or share costs for the training. Feel free to contact the RMS Training Director, fred@rmssupport.com, for particulars.

Live Assist / Fast Support / GoToMeeting

An integral part of the QCS program is the ability for RMS Technical Support to control your QCS program remotely using various programs. You would access these from the Help / Technical Support / Connect and select the program that works best for you. Just be sure to close the connection when you are finished with the session.



Chapter 2 – CQM and Quality Control

What you will learn from this Chapter:

Required Administrative Data

- Prime Contractor Data
- Subcontractor Data



Required QA / QC Data

- Features of Work
- Three Phase Checks
- Hazard Analysis
- QC Tests
- User Schools
- Transfer Property
- Installed Property
- Equipment Checks
- Dredging Equipment
- Exposure Hours
- Warranty Items

Correspondence Tracking

- Entering Correspondence in QCS
- Exchange Correspondence Electronically with the Government

Request for Information

- Create RFI's in QCS
- Exchange RFI's Electronically with the Government

Contractor Quality Control – Planning

Overview



This chapter furnishes information on the planning activities required for **Contractor Quality Control** and provides instructions for utilizing the **Quality Control** modules of the QCS program.

Obtaining quality construction is a combined responsibility of the construction contractor and the government. Their mutual goal must be a quality product conforming to the contract requirements. A cooperative and professional working relationship should be established in order to realize this common goal. The contract documents establish the quality required in a project to be constructed. Contracting officers are responsible for assuring the contract documents clearly define the quality of materials and workmanship required for a project and that construction contractors comply with the contract documents and produce the required product. Certain civil works structures are specified by a construction procedure in lieu of end product quality. In these instances, contractors are responsible for the specified procedure and contracting officers must verify design assumptions, and control and assure the end product quality.



In contracts of \$1,000,000 or more, detailed CQC will likely be applied and a properly edited *Guide Specification* should be included in the contract. Inclusion of detailed CQC in construction contracts under \$1,000,000 is discretionary for the Government to specify. When construction services are obtained through an international governmental agreement, CQC will not be used unless it is specifically required by that agreement. In any case, the Contractor is reminded to comply with the specific requirements of the contract.

Contractor Responsibility

General. Contractors are responsible for all activities necessary to manage, control, and document work so as to ensure compliance with the contract plans and specifications. The contractor's responsibility includes ensuring adequate quality control services are provided for work-accomplished on-and off-site by his/her organization, suppliers, subcontractors, technical laboratories and consultants. The work activities include safety, submittal management, and all other functions relating to the requirement for quality construction.

Staffing. It is the contractor's responsibility to carefully examine the contract requirements for

CQC and provide personnel capable of complying with the CQC requirements of the contract clauses and technical provisions. The CQC staff must be of sufficient size and have the qualifications necessary to ensure contract compliance, whether the prime contractor, subcontractors or vendors, performs work. The CQC system manager will be an employee of the prime contractor and must report directly to the project superintendent or someone higher in the contractor's organization. The size and composition of the CQC organization may vary as the job progresses. At all times it should be compatible with the level of effort and capability required by the contract and construction schedule.

Quality Control Plans and Procedures. Contractors will be required to prepare a quality control plan for all projects except those excluded under the discretionary authority. Plans and procedures will include the features described in the edited *Guide Specifications*.

Construction Quality Management Training for Contractors

The Corps of Engineers has been requiring the **Contractors' Quality Control Manager** to complete the course entitled "**Construction Quality Management for Contractors**," since 1994. The certificate obtained for successfully completing the training is good for five years. As the certificates expire, those individuals will be required to retake the training. Here are some points about the training that can stand repeating.

- a. The updated course has been coordinated with the Navy and they are using the same tape and student study manual to teach the course as the Corps of Engineers. It has been determined that the Navy will accept the Corps certificates and the Corps of Engineers will accept the Navy's certificates. A copy of the Corps of Engineers and the Navy certificates are shown hereafter for information.
- b. The instructor should be a **Corps of Engineers employee** with solid experience in **Construction Quality Management**, a thorough knowledge of the course material and preferably should have some experience in instruction. It may be suitable to use recently retired Corps employees, but their qualifications and experience level must remain up to date.
- c. To successfully complete the training the student must obtain a score of at least 70 on the Posttest. At the successful conclusion of training, contractor personnel will be given a *Certificate of Completion*. The District shall keep a record of all personnel trained by complete name, social security number, company, and job title. This is necessary to confirm that an individual has had the training if he/she presents a certificate issued by a different District. The certificate should also contain the name and phone number of the District POC to make verification easier. This training certificate is good for five years and the expiration date should be included on the certificate. After that the training must be retaken.
- d. In the event that a certified **Quality Control Manager** is relieved of his/her duties due to unsatisfactory performance, the District administering the contract must revoke the training certificate. If his/her certificate was issued by another District, that District must be notified in writing that the certificate was revoked and for what

Quality Control System

- reason. The training District should then annotate the records to show that the certificate was pulled for unsatisfactory performance. Thus, it is essential that a background check be made any time an individual presents a certificate from another District as evidence of having completed the required training.
- e. All parties will receive the most benefit from the *Mutual Understanding Meeting* if the Quality Control (QC) manager has had the required training before the meeting is held. It is therefore best if the District tries to pre-schedule the training based on their projected execution schedules; Partnering may demand individualized training for complex projects to accommodate contractors' needs and to facilitate development of the Corps/Contractor quality management team in a partnering process. Each QC manager shall be required to obtain the training within 90 days of the NTP if he/she does not already have the required certification.
 - f. The cost for this training should not be greatly different between Corps of Engineers Districts. The contractor can be charged the cost of reproducing the student study guide and cost of classroom rental if government facilities are not available. If there are large differences, we normally hear about it through the AGC or directly from some of our contractors. Headquarters USACE did not intend to infer in any way that the training should be done in a government facility. That decision is up to individual Districts based on their own unique situations.
 - g. The course material will take about 12 hours to complete in a formal classroom situation allowing adequate time for student participation, pre and post tests, classroom breaks and lunch. You will find that this time varies somewhat between different Districts and facilitators.

CQM Certificate – Sample – Corps of Engineers



CQM Certificate – Sample - Navy



Contractor Quality Control Plans

The goal of the Contractor and the Corps of Engineers should be to provide a quality product to our customers on time and within budget. ER 1180-I-6, *Construction Quality Management*, requires the inclusion of CEGS-01451*, *Contractor Quality Control*, in all contracts over \$1, 000, 000. This specification section details how the contractor will control his construction activities and obtain the quality he contracted for. It requires him to submit a quality control (QC) plan detailing how he intends to comply with the contract. A good detailed QC plan will help us achieve quality construction and the Contractor QCS module will help accelerate and unify that plan. (* Note: This referenced document has been replaced with the Unified Facilities Guide Specification (UFGS), Section 01 45 00.00 10 – there are separate versions for the USACE, NavFac and NASA. The old reference to the CEGS remains until the ER is changed.)

The following parts of contractor QC plans need special attention during review and approval of the plan.

- a. The QC plan must include a QC organization description, which shows in detail exactly who is responsible for the quality of each type of work performed. This means the name and qualifications of all the individuals responsible must be listed. If a subcontractor is doing the mechanical work and the foreman of the subcontractor is responsible for the quality of that work, his name, qualifications and responsibilities must be included in the plan. This allows the QA representative to know who is responsible and make sure he attends and is involved in the preparatory phase.
- b. The QC plan must contain a letter to the individual Quality Control Manager named in the plan. This letter outlines his duties and responsibilities and gives authority to halt work, which is not in compliance with contract requirements. An authorized official of the company must sign this letter. The QC manager will issue letters of direction to all other various QC representatives outlining duties, authorities and responsibilities and provide copies of the letters to the government.
- c. The QC plan must identify all control, verification and acceptance testing procedures for each specific test. It shall list the test name, specification paragraph number requiring test, feature of work to be tested, test frequency and the person responsible for each test. It is noted that if the contractor uses a commercial testing lab, the Corps must approve it. If the contractor intends to set up his own lab, then this must also be inspected and approved by the Corps.
- d. The QC plan must describe a procedure for tracking construction deficiencies from initial identification thru correction. It is noted that establishment of the procedures does no good unless the contractor is required to implement and maintain them.
- e. Procedures for reporting, to include forms, must be included in the QC plan. This should include as a minimum, forms for daily QC activities, preparatory and initial meetings, control testing, final inspections and subcontractor QC activities forms.
- f. The QC plan must also contain a list of definable features of work. There may be more than one definable feature of work in each section of the specifications. A definable feature of work is any task, which is separate and distinct from other tasks,

- has separate control requirements, or is identified by different trades or disciplines.
- g. The contractor must show how they plan to manage the submittals required by the contract. These QC procedures must show who is responsible for the review and approval of all submittals for the contractor, including those from subcontractors, offsite fabricators and suppliers. Note that the individual signing for the contractor is certifying that the submittal meets all contract requirements. If too many submittals sent to the government are not in compliance, then it is that individual who should be either retrained or replaced.

While these are not all of the items required to be in the contractors QC plan, they are problems noted during the last three years of Design Construction Evaluations. The easiest way to review a contractors QC plan is to have a copy of the contract specification section 01451 available and check off each item specified after reviewing it to determine if it will aide the contractor in obtaining the quality specified. Obtaining quality construction is a joint government and contractor effort. If we assure that the contractor has the proper tools in place and understands how they can help him obtain the quality specified, we have made our job easier.

QCS Contractor Quality Control Module

Elements of Quality Control within QCS

- **Daily QC Report**
- **Contractor Staff**
- **Subcontractors**
- **Features of Work**
- **3-Phase Inspections**
- **Hazard Analysis**
- **QC Tests**
- **User Schools**
- **Transfer Property**
- **Installed Property**
- **Equipment Checks**
- **Dredging Equipment**
- **Exposure Hours**
- **Warranty Items (Post Completion)**

Monitoring contract progress is a responsibility of both the Government and the Contractor. As a contract progresses, both the Contractor and the Government make a daily report as to that progression. These reports include activities started and completed, inspections made, QC requirements met, problems experienced and, if any, accidents encountered, as well as a variety of other information. The QCS program provides a place to enter all of this information pertaining to the Contract and is easily shared with the Government RMS program and between various Contractor QCS Sites (if remote sites are chosen to be used).

Why should the Contractor use QCS?

- Once the Contractor enters the initial data and the Government approves the data, a variety of reports can be printed and used by both the Contractor and Government.
- The Contractor can use queries, ranges and sorts to monitor the Quality Control aspects of the contract.
- The Contractor can use multiple QCS sites to manage different areas of the Contract. For example, you can assign on QCS program to handle Payroll/Insurance, another to do Submittals, another to do the Daily CQC Report, and so forth.
- QCS provides the Contractor an automated tool to print Government required forms and documents to meet contract specification requirements. One such form is the Transmittal Form, ENG Form 4025 and another is the DD Form 1149 for transfer of Installed Property.
- QCS gives the Contractor a deficiency tracking system that meets their QC Management Plan requirement as specified in the contract.
- Preparatory and Initial Inspections can easily be scheduled and recorded. The program provides an Inspection Check-sheet to help the Contractor prepare for these inspections.
- Hazard Analysis can be created in the Contractor Library and accessed and used for all contracts in the QCS database.
- QCS can import the activities, scheduled start and finish dates, and values from the Contractor's NAS, if the software used meets the Government's *Standard Data Exchange Format (SDEF)*.

Much of the data entered by the Contractor is interdependent with other area options throughout QCS. Special attention should be placed on **Prep/Initial Dates, Activity Start/Finish, User School, QC Testing, Transfer Property, Installed Property, Issue QC Punch List items, Corrected QC Punch List items, Corrected QA Punch List items** and **Contractor On-Site** options as they are linked to other vital functions of both the QCS and RMS programs.

Quality Control Requirements

There are areas that must be addressed in the **Planning** of a contract before a Contractor can adequately prepare his Daily Quality Control Report. The Government or the Designer accomplishes some of this preliminary planning, long before the contractor is aware that a potential contract even exists. This includes, among many other things, what QCS and RMS refers to a **QC Requirements**. Each of these requirements is tracked by specific number and is assigned (linked) to a contractor pay activity by the construction contractor. Other items that the

Contractor must enter prior to making his daily reports include his staffing intentions, his subcontractors and the definable features of work he will use to manage the inspection process.

Prime Contractor Data

The **Prime Contractor** window is comprised of four (4) tab entry screens, located under **Administration** from the QCS **Contract Menu**. Data is entered into each tab separately, beginning with the **Contractor Information** tab.

The screenshot shows the QCS software interface for 'RMS Training Contract'. The window title is 'Contract ID - L1001373 Contract No. - W912PP-07-C-0010 NA'. The main menu includes 'Close Contract', 'Administration', 'QC', 'Submittals', 'Import / Export', 'Contract Reports', and 'Exit QCS'. The 'Administration - Prime Contractor' window is open, showing a left-hand navigation menu with links: 'Contract Description', 'Action Items', 'Prime Contractor' (highlighted with a red arrow), 'Subcontractors', 'Contractor Insurance', 'Contractor Payrolls', 'Correspondence', 'Request for Information', 'Pay Activities', and 'Progress Payments'. The main content area displays the 'Prime Contractor' information form with the following fields:

- Responsibility Code: PRIM
- DUNS No: 011264421
- Contractor Short Name: FCI
- Contractor Name: FCI Constructors, Inc
- NAICS Code: 233320
- Office to receive payments: _____
- Contractor Representative to Review Contractor Evaluation (DD2626): _____
- Name: Steve Albritton
- Email: sa@fcioi.com

Contractor Information

1. **Responsibility Code** – This code must match the Contractor’s scheduling package if one is being used. It must be **PRIM** and cannot be assigned to any other subcontractor for this contract. An alpha/numeric identifier is almost always used within a commercial scheduling package, such as Primavera, and can easily be imported into the QCS program. Be sure to advise your P3 scheduler of the Prime Contractor responsibility code of **PRIM**.
2. **DUNS No**: Enter the nine-digit (or thirteen-digit) Contractor CEC number (DUNS # or DUNS+4#), as it appears on the Contractor’s proposal or contract award letter. A sample CEC number is “03-807-4381”. (FAR 52.204-4, Contractor Establishment Code (CEC)). The CEC is a 9-digit code assigned to a Contractor that contracts with a Federal executive agency. The CEC system is a contractor identification coding system that is

currently the Dun and Bradstreet Data Universal Numbering System (DUNS). The CEC system is distinct from the Federal Identification Numbering (TIN) system. The Government will obtain a CEC for any awardee that does not have or does not know its CEC. The CEC number should be found on the executed SF 1422, in block 14. It is also used on the DD 2626, Contractor Evaluation form in CCASS.

The Data Universal Number (DUNS) is a unique nine-character (or thirteen-character) company identification number issued by Dun & Bradstreet. To verify or locate a DUNS number for the construction firm in the Central Contractor Registration (CCR) visit:

<https://www.bpn.gov/ccr/default.aspx>

3. **Contractor Short Name** – Enter an abbreviated name of the Prime Contractor. This is used for simple reports and screens throughout the QCS and RMS programs.
4. **Contractor Name** – Enter the Contractor’s full name as you want it to appear on various QCS and RMS reports and contract documents.
5. **NAICS Code** – Enter the Contractor’s NAICS code. A sample NAICS code is: “236220” (Commercial and Institutional Building Construction). This number is required to be used on the CCASS Contractor Evaluation Form (DD Form 2626).

The North American Industry Classification System (NAICS) has replaced the U.S. Standard Industrial Classification (SIC) system. NAICS was developed jointly by the U.S., Canada, and Mexico to provide new comparability in statistics about business activity across North America. To look up a NAICS code for construction, refer to the following website: <http://www.naics.com/naics23.htm>

6. **Office to receive payments** – This will be completed automatically by the Government (RMS)
7. **Contractor Representative to Review Contractor Evaluation (DD2626)** – Enter the name and email address of this Contractor representative. The name entered here will have access to, and responsibility for, responding to evaluation criteria entered by the Government in the CCASS database. This new feature of RMS/QCS allows the construction evaluation to put directly into CCASS electronically from RMS. Additional information can be obtained from the ACASS/CCASS User Manual at the following website: CPARS (<http://www.cpars.csd.disa.mil/cparsmain.htm>) This will allow the Assessing Official (Evaluator), once notified that the evaluation is copied to CCASS, to login to CCASS and continue processing the evaluation to the Contractor Representative.

What is CCASS anyway?

Construction Contractor Appraisal Support System (CCASS)

CCASS is a web-enabled application that supports the completion, distribution, and retrieval of Construction contract performance evaluations (DD Form 2626). CCASS is for UNCLASSIFIED use only. An evaluation assesses a contractor's performance and provides a record, both positive and negative, on a given contract. Each evaluation is based on objective facts and supported by contract management data, such as contract performance elements that evaluate quality, timely performance, effectiveness of management, and compliance with contract terms, labor standards, and safety requirements.

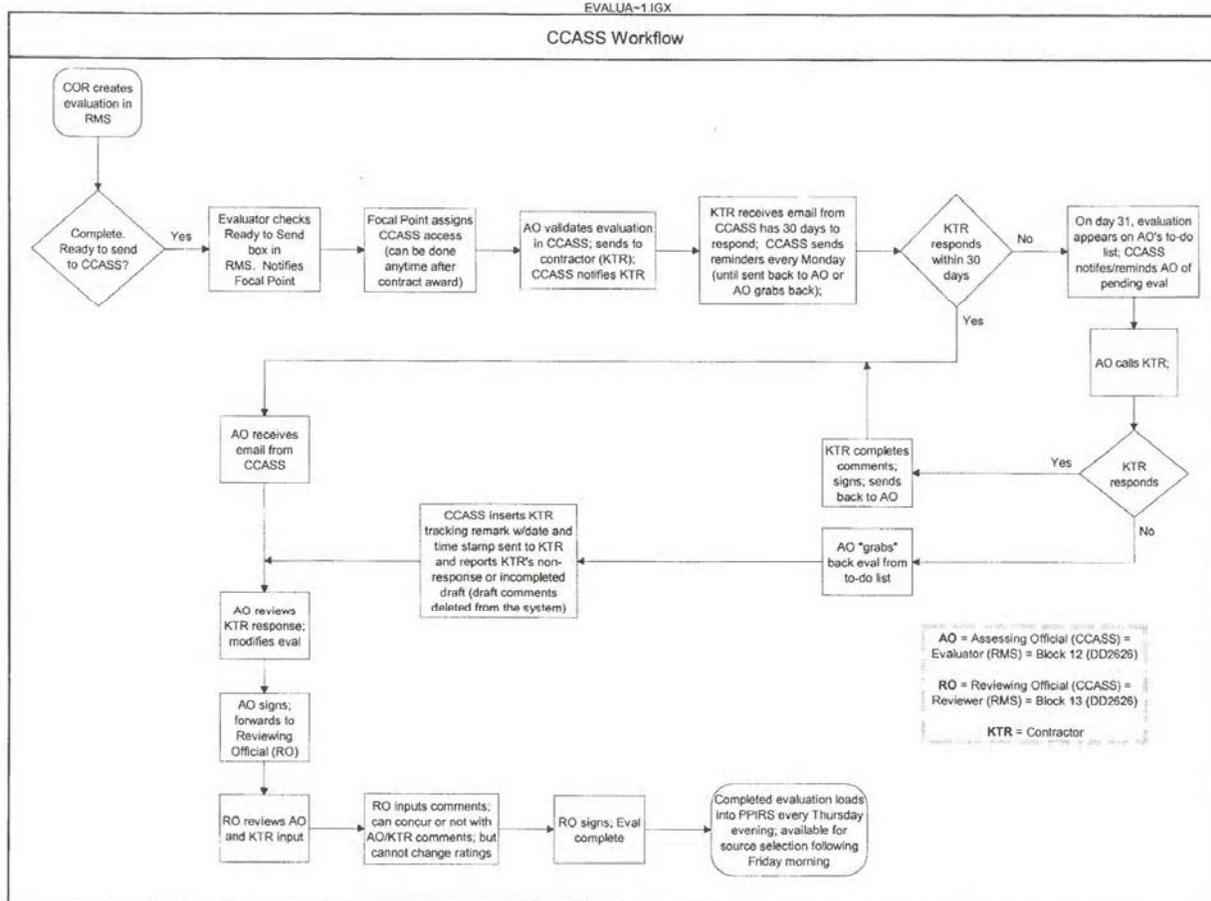
The following table shows the roles and responsibilities of the various stakeholders in the Evaluation process:

CCASS Role	DD2626 Role	Responsibilities
Focal Point	N/A	Enters users into CCASS Assigns roles (Assessing Official, Contractor Representative, Reviewing Official) to users on each contract in CCASS
Contract Data Entry	N/A	None when RMS is used to generate the evaluation
Assessing Official Representative	N/A	Drafts the evaluation in RMS; must have WRITE access to the Contractor Evaluation module in RMS Sends evaluation from RMS to CCASS Forwards draft evaluation to the Assessing Official
Assessing Official	Block 12 Evaluated By	Ensures accuracy of the draft evaluation; Transmits draft evaluation to the Contractor Finalizes evaluation after reviewing Contractor feedback Forwards completed evaluation to the Reviewing Official
Contractor Representative	N/A	Reviews forwarded draft evaluation, 30 day review period

Quality Control System

		<p>Inputs comments in CCASS</p> <p>Sends feedback to the Assessing Official</p>
<p>Reviewing Official</p>	<p>Block 13</p> <p>Evaluation Reviewed By</p>	<p>Reviews completed evaluation</p> <p>Ensures Contractor's comments have been satisfactorily addressed</p> <p>Saves completed evaluation; posts to Past Performance Information Retrieval System (PIRS)</p>

CCASS Workflow



Contractor Address

Contract ID - L1001373 Contract No. - W912PP-07-C-0010 NA

File Options Help

QCS RMS Training Contract

Close Contract Administration QC Submittals Import / Export Contract Reports Exit QCS

Administration - Prime Contractor

Contractor Information **Contractor Address** Management/Work Days Bond Co./SBA

[Contract Description](#)
[Action Items](#)
[Prime Contractor](#)
[Subcontractors](#)
[Contractor Insurance](#)
[Contractor Payrolls](#)
[Correspondence](#)
[Request for Information](#)
[Pay Activities](#)
[Progress Payments](#)

Government should send mail to: Contractor's Home Address Contractor's Site Address

Home Office Address:
 Street Address: P.O. Box 2176
 City: Litchfield Park County: Maricopa
 State: AZ Country: USA
 Zip Code: 85340
 Home Phone: 1.623.772-7400 Home Fax: 1.623-877-3300

Site Office Address:
 Street Address: 1000 Main
 City: Kayenta County: Navajo
 State: AZ Country: USA
 Zip Code: 86033
 Site Phone: 928-637-3361 Site Fax: 928-637-3336

1. **Government should send mail to** – Select whether the Contractor's correspondence will be mailed to the HOME or SITE address of the Contractor. In most cases, the original copy of correspondence is sent to the HOME Office, with copies being given to the SITE Office. However, if you indicate that the correspondence will be mailed to the SITE address; all Government generated letters addressed to the Contractor will automatically capture that address.



It is recommended that it be established between the Contractor and the Government at the Pre-Construction Conference as to the contractors desire to have copies of outgoing correspondence provided to his field staff. Some Prime Contractors prefer that this not be done.

2. **Home Office Address** – Enter data as appropriate
 - a. The "County" (parish/ward, etc.) is that of the Contractor's Home Office. This information is printed in Block 8 of the SF -30, Modification from.
 - b. The "Country" is also that of the Contractor's Home Office.
3. **Site Office Address** – Enter data as appropriate if mail will be sent there by the Government.

Management / Work Days

The screenshot shows the 'Management/Work Days' tab in the QCS software. The form is titled 'Administration - Prime Contractor' and contains the following fields:

Field	Value	Field	Value
Project Manager	Steve Albritton	PM Phone	623-772-7400
Superintendent	Bob Chapel	PM Beeper	None
Asst. Superintendent	Rick Lewis	PM Cellular	602-738-4474
QC Manager	Kevin Walker	Super Phone	928-697-3361
Asst. QC Manager	Elmer Merry	Super Beeper	None
		Super Cellular	602-432-8751

Contractor Work Days:

- Sunday
- Monday
- Tuesday
- Wednesday
- Thursday
- Friday
- Saturday

1. **Project Manager** – Enter the name of the Contractor’s Project Manager as it appears within the Contractor’s Quality Control Plan.
2. **PM Phone/Beeper/Cellular** – Enter the Project Manager’s Telephone, Beeper and Cellular numbers in the cells provided.
3. **Superintendent** – Enter the Contractor’s jobsite Superintendent’s name as it appears in the Contractor’s Quality Control Plan and the Contractor’s appointment letter.
4. **Super Phone/Beeper/Cellular** – Enter the Superintendent’s telephone, beeper and cellular numbers in the cells provided.
5. **Assistant Superintendent** – Enter the Assistant Superintendents name if applicable.
6. **Quality Control Manager** – Enter the Contractor’s QC Manager (Full Name). This should match the name within the Contractor’s Quality Control Plan.
7. **Assistant Quality Control Manager** – Enter the name of the Assistant Quality Control Manager if applicable. It should be noted that the Assistant QC Manager must have the same qualifications as the primary QC Manager, including an up-to-date CQM Certificate.

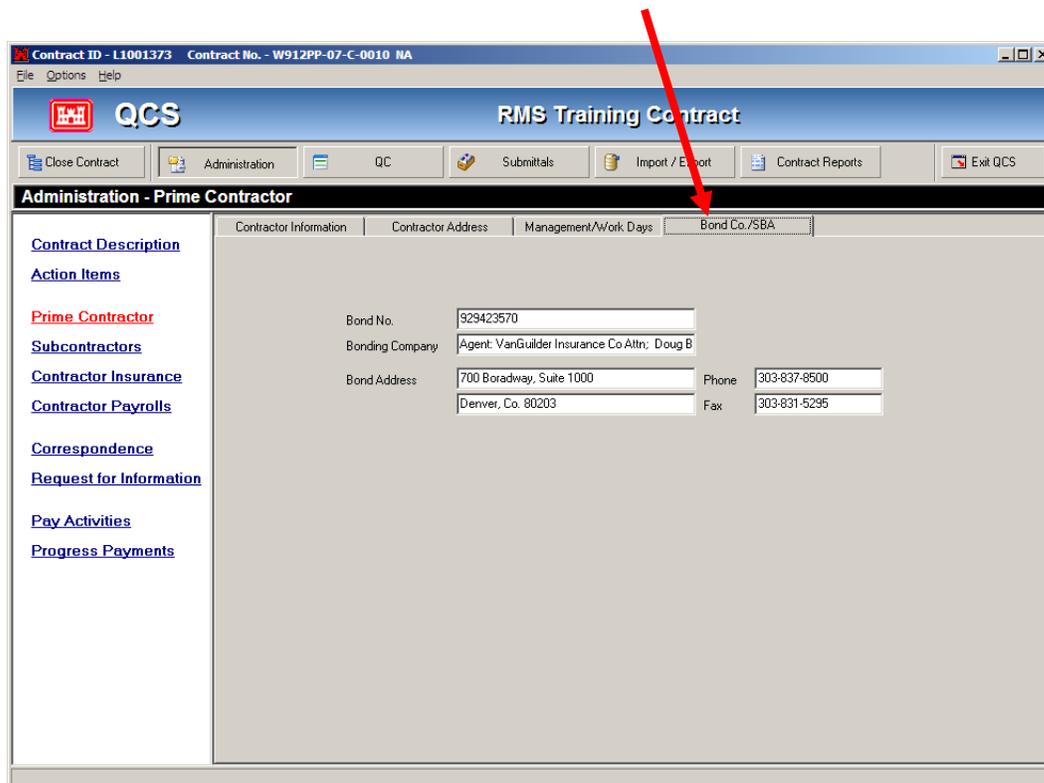
8. **Contractor Work Days** - This screen will be used in other areas of QCS and RMS when establishing time extensions granted by contract modifications, such as an extension granted due to adverse weather delays. Indicate in the definitive check boxes a “yes” or “no” for the days of the week the Contractor will NORMALLY be performing work on the jobsite. (An empty or light gray check indicates a “no”.)

For example, the work days used should match the workweek used with the NAS/CPM.

Bond Co. / SBA

When your contract requires performance and/or payment bonds, this screen must be completed accordingly. FAR, Part 28.1 includes the requirements and FAR Clause 52.228 may be included within the contract.

Consent of Surety is necessary for contract Modifications exceeding certain dollar limits.



The screenshot shows the QCS RMS Training Contract Administration - Prime Contractor screen. The 'Bond Co./SBA' tab is selected, and a red arrow points to it. The form contains the following data:

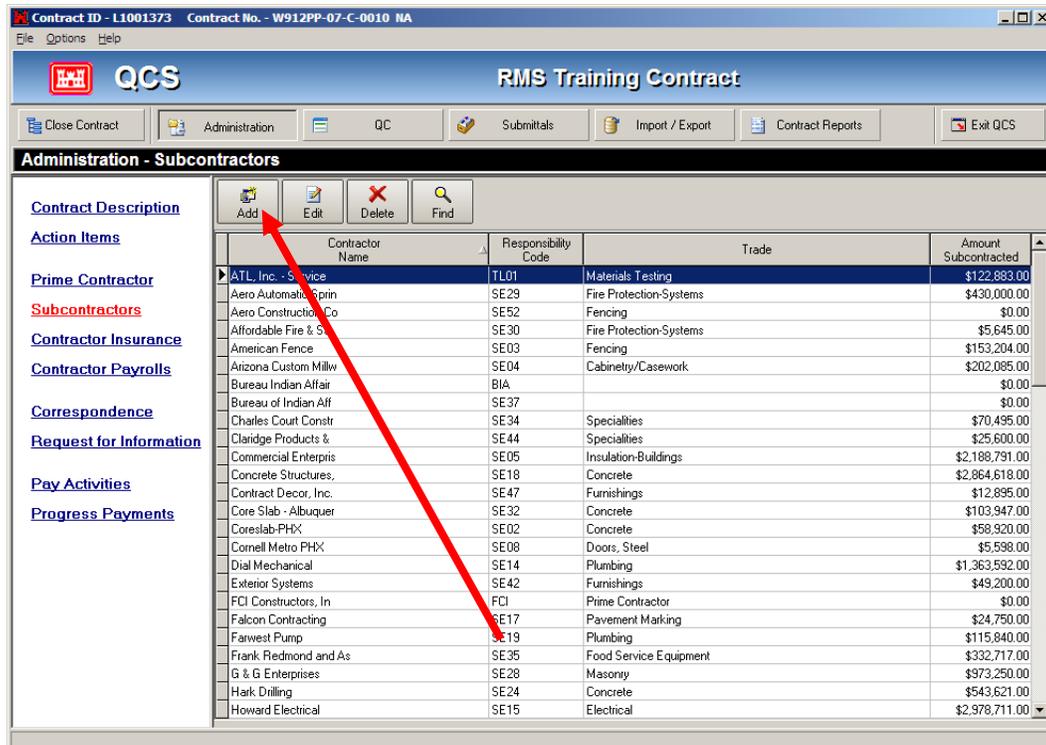
Bond No.	929423570		
Bonding Company	Agent: VanGuilder Insurance Co Attn: Doug B		
Bond Address	700 Boradway, Suite 1000	Phone	303-837-8500
	Denver, Co. 80203	Fax	303-831-5295

1. **Bond Number** – Enter the Bond Number as it appears on the contract Notice-to-Proceed letter or other document.
2. **Bonding Company** – Enter the name of the Bonding agency as it appears on the contract Notice-to-Proceed letter or other document.
3. **Bond Address** – Enter the address of the Bonding agency as it appears on the contract

Notice-to-Proceed letter or other document.

4. **Phone** – Enter the telephone number of the Bonding agency.
5. **Fax** – Enter the fax number of the Bonding agency.

Subcontractor Data



Contract ID - L1001373 Contract No. - W912PP-07-C-0010 NA

QCS RMS Training Contract

Administration - Subcontractors

Contract Description
Action Items
Prime Contractor
Subcontractors
Contractor Insurance
Contractor Payrolls
Correspondence
Request for Information
Pay Activities
Progress Payments

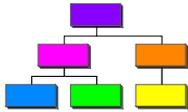
Contractor Name	Responsibility Code	Trade	Amount Subcontracted
ATL, Inc. - Service	TL01	Materials Testing	\$122,883.00
Aero Automatic Sprin	SE29	Fire Protection-Systems	\$430,000.00
Aero Construction Co	SE52	Fencing	\$0.00
Affordable Fire & S	SE30	Fire Protection-Systems	\$5,645.00
American Fence	SE03	Fencing	\$153,204.00
Arizona Custom Millw	SE04	Cabinetry/Casework	\$202,085.00
Bureau of Indian Affair	BIA		\$0.00
Bureau of Indian Aff	SE37		\$0.00
Charles Court Constr	SE34	Specialties	\$70,495.00
Claridge Products &	SE44	Specialties	\$25,600.00
Commercial Enterpris	SE05	Insulation-Buildings	\$2,188,791.00
Concrete Structures,	SE18	Concrete	\$2,864,618.00
Contract Decor, Inc.	SE47	Furnishings	\$12,895.00
Core Slab - Albuquer	SE32	Concrete	\$103,947.00
Coreslab-PHX	SE02	Concrete	\$58,920.00
Cornell Metro PHX	SE08	Doors, Steel	\$5,598.00
Dial Mechanical	SE14	Plumbing	\$1,363,592.00
Exterior Systems	SE42	Furnishings	\$49,200.00
FCI Constructors, In	FCI	Prime Contractor	\$0.00
Falcon Contracting	SE17	Pavement Marking	\$24,750.00
Farwest Pump	SE19	Plumbing	\$115,840.00
Frank Redmond and As	SE35	Food Service Equipment	\$332,717.00
G & G Enterprises	SE28	Masonry	\$973,250.00
Hark Drilling	SE24	Concrete	\$543,621.00
Howard Electrical	SE15	Electrical	\$2,978,711.00

Push the **Add** button to add new Subcontractors, or the **Edit** button to edit information on an existing Subcontractor.

The subcontractor entry is an essential part of the QCS and RMS programs, for example:

1. Attaching a subcontractor to each activity links submittal items to the subcontractor.
2. Subcontractor information such as Amount of Subcontracted Work and Small Business data is gathered and used in various reports.
3. With the subcontractor attached to activities, QCS and RMS know who has related responsibilities for Preparatory and Initial Inspections.
4. A subcontractor list is necessary to document Labor Interviews.
5. Without the subcontractor data, daily Labor Hours cannot be posted in the Daily Quality Control Report.

6. Subcontractor deficiencies are noted on the Pay Estimate Worksheet.
7. A listing of Subcontractors may be provided to the User at the conclusion of the contract for Warranty of contacts.



1. **Responsibility Code** – This code must match the Prime Contractor's scheduling package if one is being used. It must be unique and cannot be assigned to any other subcontractor for this contract. An alpha/numeric identifier is almost always used within a commercial scheduling package, such as *Primavera*, and can easily be imported into the QCS and RMS programs. The Prime Contractor's code must always be equal to **PRIM** and cannot be assigned to any other contractor.

A screen such as this should be completed for each Subcontractor/Supplier working on the contract.

The information is used to track payrolls, insurances and will also give you the capability to sort many of the QCS Reports by the particular Subcontractor.

2. **Contractor** – Enter an abbreviated name of the Subcontractor. This is used for simple reports and screens throughout the QCS and RMS programs.
3. **Trade** – Use the lookup to select the MAJOR Trade represented by this Subcontractor.
4. **Full Name and Address** – Enter the Subcontractor's full name and office address, as you want it to appear on various QCS and RMS reports and contract documents.
5. **POC** – Enter the primary Point-Of-Contact at the Subcontractor home office. This name will be used for reporting Warranty issues at the conclusion of the contract.
6. **Phone** – Enter the Subcontractor's home office telephone number.

7. **Fax** – Enter the Subcontractor’s home office fax number.
8. **Amount Subcontracted** – This amount should agree with the contractor Activity distribution within the construction schedule of values. The requirement to provide the amount of the Subcontract is a clear contract requirement and is used to show compliance to the **Prompt Payment Act**, among other things. The precise reference for this requirement can be found at

http://farsite.hill.af.mil/reghtml/regs/far2afmcfars/fardfars/far/52_232.htm#P31_3456



NOTE: Amounts are ONLY to be entered for the 1st Tier Subcontractors. Check the box “Contractor is a Second Tier Sub” for all other Subcontractors. Otherwise, RMS will total the amount twice for reports, such as the DD Form 2626. The amounts also appear on the Prompt Payment Certificate. Prime Contractors most often do not have access to the amount of any subcontracts beyond which they themselves initiate.

If you are entering information on a Second Tier Sub, check the box at the bottom of the window and the “Amount Subcontracted” entry will disappear

9. **Contractor is a Small Business** – Check this box if appropriate. This will be used to track your success in meeting your small business goals.
10. **Contractor Insurance** -- This box will advise the contractor as to whether Insurances are required to be sent to the Government.
11. **Payroll** – If Payrolls are required to be sent to the Government this box will be checked and you need to enter the “Payroll End Day” for the Subcontractor.

Contractor Insurance

Tracking and documenting of contractor insurance is required on typical military construction projects in the United States. In some limited cases, this is also required on civil contracts and contracts performed in overseas (OConus) locations.

If insurance is required by the contract, it is extremely important that it be tracked and the Prime Contractor keeps all insurances up to date and current. There are many Corps of Engineers offices that will not permit a contractor to be on the site without proof of current insurance.

Some Corps of Engineers offices elect to enter Insurance data themselves, while other offices require the Contractor to enter the data. If the screen is indicated as **Read Only**,

Quality Control System

the Government will enter the data after the Contractor provides documentation as required.

If insurance is not shown or current on this screen, it will be listed on the *Pay Estimate Worksheet* each time a *Pay Request* is submitted for payment considerations. It will also appear on the "Action Item" report.

The *Contractor Name* is carried over from the contractor and subcontractor entries previously discussed. If a subcontractor is missing from this listing, you will need to select **Subcontractors** from the left side of the screen and add him to the listing.

Select the **Edit** button to enter dates that each insurance expires.

The screenshot shows the QCS software interface for 'RMS Training Contract'. The main window displays a list of contractors with columns for Contractor Name, Responsibility Code, Trade, General Insurance, Auto Insurance, and Workman's Comp. A red arrow points to the 'Edit' button in the top left of the contractor list. An 'Edit Contractor Insurance' dialog box is open, showing fields for General, Auto, and Workers Comp insurance expiration dates.

Contractor Name	Responsibility Code	Trade	General Insurance	Auto Insurance	Workman's Comp
ATL, Inc. - Service	TL01	Materials Testing			
Aero Automatic Sprin	SE29	Fire Protection-Systems	01/16/2011	01/16/2011	02/16/2011
American Fence	SE03	Fencing			
Arizona Custom Millw	SE04				
Charles Court Constr	SE34				
Claridge Products &	SE44				
Commercial Enterpris	SE05				
Concrete Structures,	SE18				
Contract Decor, Inc.	SE47				
Core Slab - Albuquer	SE32				
Coreslab-PHX	SE02				
Cornell Metro PHX	SE08				
Dial Mechanical	SE14				
FCI	PRIM				
FCI Constructors, In	FCI				
Falcon Contracting	SE17				
Farwest Pump	SE19				
Frank Redmond and As	SE35				
G & G Enterprises	SE28				
Hark Drilling	SE24				
Howard Electrical	SE15				
Hulcor/Arizona, Inc.	SE13				
KTI Tile, Inc.	SE20				

The 'Edit Contractor Insurance' dialog box shows the following expiration dates:

- General: 10/24/2011
- Auto: 10/24/2011
- Workers Comp: 10/24/2010

CAUTION

WATCH YOUR STEP

Remember that you enter the dates that the applicable insurance **EXPIRES**, not the date it was issued or received.

Contractor Payrolls

Tracking and documenting of contractor payrolls is required on typical military and civil construction projects in the United States that fall under the auspices of the Davis-Bacon Act. In some limited cases, this is also required on contracts performed in overseas (OConus) locations.

If payrolls are required to be tracked, it is extremely important that they be tracked and the Prime Contractor keeps all payrolls reporting up to date and current.

Some Corps of Engineers offices elect to enter payroll data themselves, while other offices require the Contractor to enter the data. If the screen is indicated as “**Read Only**”, the Government will enter the data after the Contractor provides documentation as required.

If a payroll is not shown or current on this screen, it will be listed on the *Pay Estimate Worksheet* each time a *Pay Request* is submitted for payment considerations.

The *Contractor Name* and *Responsibility Code* are carried over from the contractor and subcontractor entries previously discussed. If a subcontractor is missing from this listing, you will need to select **Subcontractors** from the left side of the screen and add him to the listing.

Contract Description	Responsibility Code	Contractor Name	Sep 26, 2009	Oct 03, 2009	Oct 10, 2009	Oct 17, 2009	Oct 24, 2009	Oct 31, 2009	Nov 07, 2009	Nov 14, 2009	Nov 21, 2009	Nov 28, 2009	Dec 05, 2009	Dec 12, 2009	Dec 19, 2009	Dec 26, 2009	Jan 02, 2010	Jan 09, 2010	Jan 16, 2010	Jan 23, 2010	Jan 30, 2010	Feb 06, 2010	Feb 13, 2010	Feb 20, 2010	Feb 27, 2010	Mar 06, 2010	Mar 13, 2010
SE29	Aero Automatic Sprinkler		S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
SE03	American Fence		S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
SE04	Arizona Custom Millwork		S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
SE56	Benham Enterprises, Inc;																										
SE34	Charles Court Constr			S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
SE44	Claridge Products & Equip																										
SE05	Commercial Enterprises		S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
SE18	Concrete Structures, Inc		S	S	S	P	S	S	S	S	P	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
SE47	Contract Decor, Inc.																										
SE02	Coreslab Structures - PHX		S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
SE08	Cornell Metro PHX		S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
SE14	Dial Mechanical		S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
SE17	Falcon Contracting																										
SE19	Farwest Pump									S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
FCI	FCI Constructors, In		S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
PRIM	FCI Constructors, Inc		S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
SE35	Frank, Redmond and As																										
SE28	G & G Enterprises		S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
SE24	Hark Drilling																										
SE15	Howard Electrical		S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S

Contractor: Aero Automatic Sprinkler Co.

First Day on Site: 06/30/2008 SF 1413 05/15/2008

Last Day on Site: _____

N: Non-Work Week
S: Payroll Submitted
P: Problem Payroll

Correspondence

This module will allow the Contractor and Government to exchange correspondence letters within QCS and RMS. In addition, they will be able to include file attachments to the letters. The letters that will be able to be sent will include contractor Home (H-####) and Site (S-####) letters. Basically, the contractor will be able to designate a remote QCS to be either Site or Home using the current check out scheme. The Government will accept the 'first' answer to a particular letter from either the H or S office and will ignore subsequent answers. Also, the Government will be able to generate both RFP- and C- letters to send to the Contractor. The generated letters are able to be answered by either the QCS Home or the QCS Site office.



The new feature operates very similar to the existing RFI modules.

When the letter is completed in QCS, you must check the **Completed – Ready to Send To Government** box. The screen will then be read only and once you export the letter to RMS, you will not be able to make changes. The Government, via RMS, will respond (answer) the letter and these processes move the letter from Tab to Tab.

The RMS program, Contract Setup, will determine if this selection is used in QCS. The Government may elect to enter all Correspondence themselves. This works similar to the RFI feature. Once the Contractor is designated to enter the Correspondence, the RMS User will not be able to perform manual entry of the received correspondence.

Contract ID - L1001373 Contract No. - W912PP-07-C-0010 NA

File Options Help

QCS RMS Training Contract

Close Contract Administration QC Submittals Import / Export Contract Reports Exit QCS

Administration - Correspondence

Contract Description
 Action Items
 Prime Contractor
 Subcontractors
 Contractor Insurance
 Contractor Payrolls
 Correspondence
 Request for Information
 Pay Activities
 Progress Payments

Add Edit Delete Find

Prepare Letter Letters Sent Letters Received

Dated	Letter No.	Subject	Letter Status
03/16/2010	H-0120	Request confirmation on delivery point for CFGI equipment.	Not Completed

H-0120 Draft Letter from Contractor Home Office
 Request confirmation on delivery point for CFGI equipment.

You are able to attach various types of files with this feature:

- Word documents (*.doc)
- Rich Text Form (*.rtf)
- Pictures (*.wmf; *.jpg, *.jpeg; *.bmp; *.gif; *.tiff; *.png)
- Text Files (*.txt)
- Web Documents (*.htm; *.html)
- Excel Documents (*.xls)
- PDF Documents (*.pdf)
- Messages (*.msg)

The remaining Tabs reflect the letters you have Sent and letters you have Received.

Requests for Information (RFI's)

During the course of the contract it is often necessary to obtain clarification, guidance, or interpretation on certain aspects of the contract. This can include the written documents (specifications), plans (contract drawings), or interpretation and application of the contract as a whole. Yes, you can still use the traditional (formal) method of creating letters and waiting for the Government to respond to your query. Or, you can utilize QCS to handle the transfer of information between you and the Government.

The **Request for Information (RFI)** module in QCS and RMS allows the contractor to request clarification of contract information thru the RMS/QCS interface. The RFI is transmitted between RMS and QCS using the import/export function.

Prepare RFI

The contractor prepares the RFI in QCS. When the Contractor checks that it is completed, the RFI is then submitted to the Government and includes the following key items:

- **Information requested**
- **Date Requested**
- **Contractor's Recommendation**
- **Will it result in a cost or schedule impact to the contract?**
- **Attachments from Contractor such as contract drawings, sketches, or photos**

RFI Screen

When the **Completed – Ready to send to Government** check box is populated, the RFI will export to the Government during the next data exchange. The information will then become “READ ONLY” and cannot be changed.

The information elements on the screen are self-explanatory, but some comments will be offered here nonetheless.

- A.** If the RFI is generated as a result of a Subcontractor, check the appropriate box. A lookup will then appear on which to select the particular Subcontractor.
- B.** When the result of the RFI is anticipated to impact the cost or time growth of the contract, you should advise the Government accordingly. It may very well end up with no impact, but it is important to give your opinion at the beginning of the RFI process. If the Government concurs they should issue a Request for Proposal (Change Request) to modify the contract.

- C.** Provide as much explanation of the RFI as you can. This will usually expedite the response from the Government.
- D.** If you have a recommendation for the RFI to be resolved, chances are it will make sense and the Government will consider it carefully. You, as the Contractor, are typically in a better position to give an opinion on the impact of the RFI as it is handled in different ways.
- E.** As appropriate, the attachment of drawings, Excel spreadsheets, and photos would be helpful to clarify your inquiry. A word of caution here is needed: WATCH THE SIZE of your photographs. Reduce them in size to less than about 150kb if at all possible.

Example of the RFI Process

An RFI is prepared as above. Check the **Completed** box when done and it will become READ ONLY (gray).

The screenshot displays two overlapping windows for a Request for Information (RFI) titled "Request for Information - RFI-0003".

Top Window (Active State):

- Date Requested: 10/30/2009
- Completed - Ready to send to Government:
- Requestor's Name: [Redacted]
- RFI Subject: [Redacted]
- Specification Sections: [Redacted]
- Drawings and Details: [Redacted]

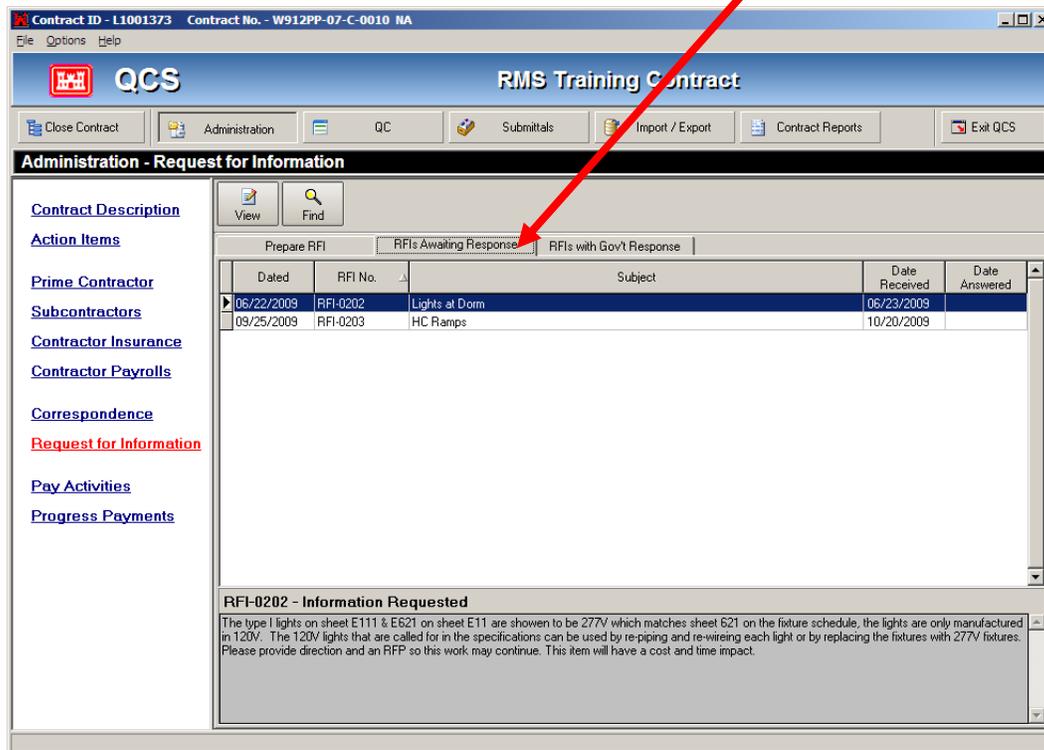
Bottom Window (Completed State):

- Date Requested: 10/30/2009
- Completed - Ready to send to Government:
- Requestor's Name: Johnny Appleseed
- Subcontractor: LAND GRASSY KNOLL
- Potential Cost Impact: Potential Schedule Impact:
- RFI Subject: Tree Designations
- Feature of Work: SIDEWALKS/LANDSCAPING
- Specification Sections: 02201
- Drawings and Details: L1 and L3
- Information Requested: Details on Contract Drawing L1 and L3 indicate that a "Tamarak" tree is to be planted. However, no such tree is described in the Tree Schedule on Contract Drawing L2 and this tree is not mentioned within the Specifications. Please let us know what kind and size of tree you desire.
- Contractor's Recommendation: We recommend 48" Box, Ficus Nitida for this area. These are evergreen and shed very little leaves. The maintenance on these trees will be considerably less than that of a "Tamarak" (aka, Salt Cedar).
- Attachments from Contractor: 0 Attachments from Contractor

A red arrow points from the "Completed" checkbox in the top window to the checked "Completed" checkbox in the bottom window, illustrating the transition from an active to a completed state.

Awaiting Response from Government on RFI

The administration screen will then indicate your RFI as “awaiting response”.



The screenshot shows the QCS RMS Training Contract Administration - Request for Information screen. The interface includes a menu bar with options like 'Close Contract', 'Administration', 'QC', 'Submittals', 'Import / Export', 'Contract Reports', and 'Exit QCS'. The main content area is titled 'Administration - Request for Information' and features a sidebar with navigation links such as 'Contract Description', 'Action Items', 'Prime Contractor', 'Subcontractors', 'Contractor Insurance', 'Contractor Payrolls', 'Correspondence', 'Request for Information', 'Pay Activities', and 'Progress Payments'. The main table displays RFI information with columns for 'Dated', 'RFI No.', 'Subject', 'Date Received', and 'Date Answered'. A red arrow points to the 'RFIs Awaiting Response' tab, which is currently selected. The table shows two entries: one dated 06/22/2009 with RFI No. RFI-0202 and Subject 'Lights at Dorm', and another dated 09/25/2009 with RFI No. RFI-0203 and Subject 'HC Ramps'. Below the table, there is a section titled 'RFI-0202 - Information Requested' with a detailed description of the request.

Dated	RFI No.	Subject	Date Received	Date Answered
06/22/2009	RFI-0202	Lights at Dorm	06/23/2009	
09/25/2009	RFI-0203	HC Ramps	10/20/2009	

RFI-0202 - Information Requested
 The type I lights on sheet E111 & E621 on sheet E11 are shown to be 277V which matches sheet 621 on the fixture schedule, the lights are only manufactured in 120V. The 120V lights that are called for in the specifications can be used by re-piping and re-wiring each light or by replacing the fixtures with 277V fixtures. Please provide direction and an RFP so this work may continue. This item will have a cost and time impact.

Export Daily QCS Update to the Government

The next step is to export a Daily QCS Export to the Government. Once the Government responds to your RFI, they should send an export from RMS to you that will contain the response. When the Government imports the QCS file, the RFI will be flagged for their acknowledgment.

RFI with Government Response

The QCS Request for Information screen will show any RFI that have been responded to by the Government. You are able to see the RFI status at the bottom of the screen in the scrolling windows.

Contract ID - L1001373 Contract No. - W912PP-07-C-010 NA

QCS RMS Training Contract

Administration - Request for Information

View Find

Prepare RFI RFIs Awaiting Response **RFIs with Gov't Response**

Dated	RFI No.	Subject	Date Received	Date Answered
05/10/2007	RFI-0001	Fuel Storage on Site	05/11/2007	05/11/2007
11/19/2008	RFI-0001G	Smoke Rated Corridors	11/19/2008	11/21/2008
05/11/2007	RFI-0002	Belled Piers	05/11/2007	05/15/2007
05/24/2007	RFI-0003	Porcelain Wall Tile	05/24/2007	06/06/2007
06/04/2007	RFI-0004	Precast Spacers	06/06/2007	06/12/2007
06/04/2007	RFI-0005	Gear layout in electrical rooms	06/06/2007	06/11/2007
06/04/2007	RFI-0006	Lock set manufacturer	06/06/2007	06/12/2007
06/14/2007	RFI-0007	Mechanical deck fasteners in lieu of 5/8" puddle welds	06/06/2007	07/02/2007
06/14/2007	RFI-0008	Glazed CMU	06/25/2007	07/02/2007
06/26/2007	RFI-0009	Glass Block	07/09/2007	07/13/2007
07/03/2007	RFI-0010	Survey Coordinates	07/09/2007	07/17/2007
07/03/2007	RFI-0011	Buy American Act	07/09/2007	07/27/2007
07/12/2007	RFI-0012	Pier Reinforcement	07/24/2007	07/30/2007
07/17/2007	RFI-0013	Laboratory Casework Schedule	07/24/2007	08/15/2007
07/17/2007	RFI-0014	Water Line sizing	07/24/2007	07/31/2007
07/17/2007	RFI-0015	Roof Penetration in Area A	07/24/2007	08/01/2007

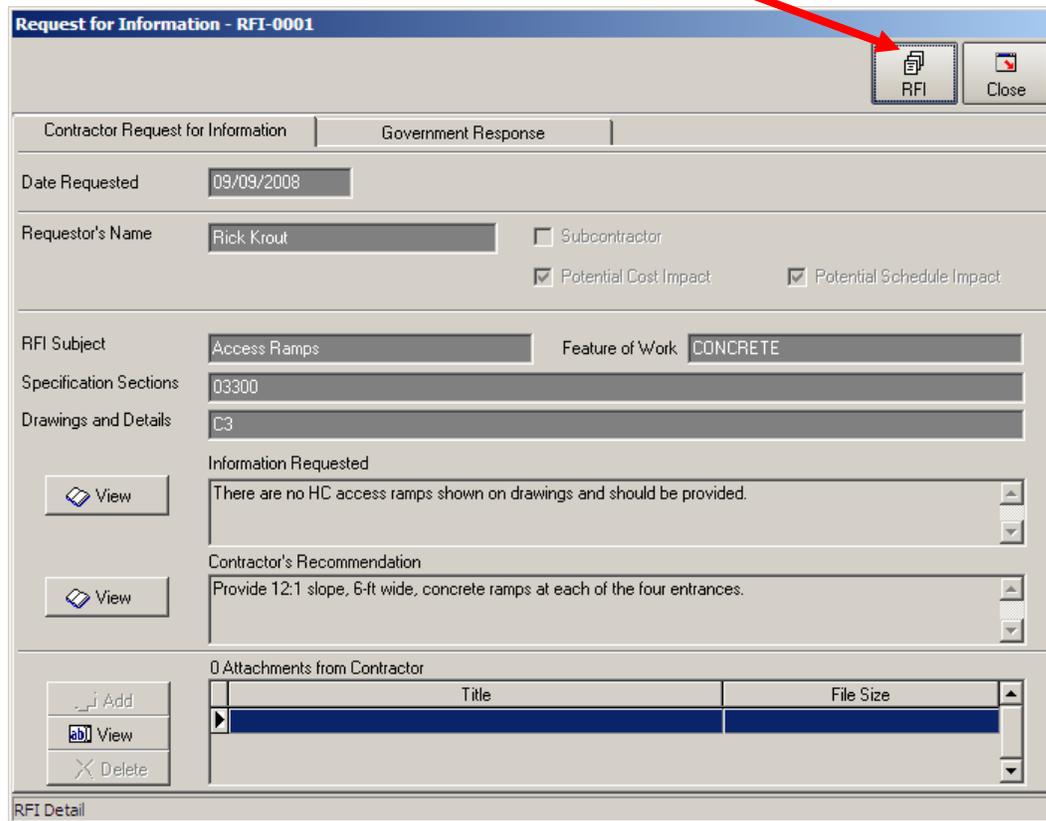
RFI-0001 - Information Requested
Can fuel be stored on site provided that they will be in EPA, and NFP rated tanks?

RFI-0001 - Government Response
Yes, provided the following is met:

Push the **View** button to access the RFI report.

View RFI Report

The RFI button is available during all stages of the RFI process. The report can be exports and saved as with any other report within RMS. The example report can be seen on the next page.



Request for Information - RFI-0001

Contractor Request for Information | Government Response

Date Requested: 09/09/2008

Requestor's Name: Rick Krout Subcontractor
 Potential Cost Impact Potential Schedule Impact

RFI Subject: Access Ramps | Feature of Work: CONCRETE

Specification Sections: 03300

Drawings and Details: C3

Information Requested: There are no HC access ramps shown on drawings and should be provided.

Contractor's Recommendation: Provide 12:1 slope, 6-ft wide, concrete ramps at each of the four entrances.

0 Attachments from Contractor

Title	File Size

RFI Detail

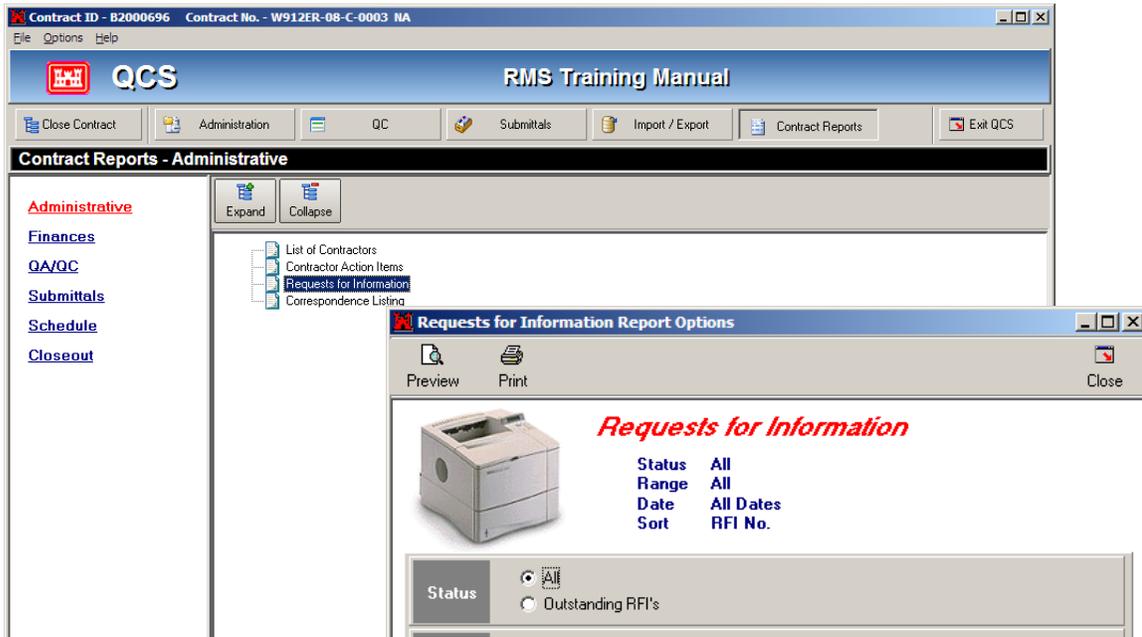
Individual RFI Report

 US Army Corps of Engineers	REQUEST FOR INFORMATION REPORT (RFI)		RFI NO. RFI-0001	PAGE NO. Page 1 of 1
	CONTRACT NO. W912ER-08-C-0003 NA	CONTRACT TITLE RMS Training Manual	PRIME CONTRACTOR Trillacorpe	
Contractor's Request for Information				
REQUESTED BY: Rick Krout	DATE REQUESTED: September 09, 2008		Potential Cost Impact [Yes] Potential Schedule Impact [Yes]	
RFI SUBJECT:	Access Ramps			
FEATURE OF WORK:	CONCRETE			
SPECIFICATION SECTIONS:	03300			
DRAWINGS:	C3			
INFORMATION REQUESTED:				
There are no HC access ramps shown on drawings and should be provided.				
CONTRACTOR RECOMMENDATION:				
Provide 12:1 slope, 6-ft wide, concrete ramps at each of the four entrances.				
Government Response				
ANSWERED BY: Gregory M. Schulz, P.E.	DATE RECEIVED:	DATE ANSWERED:		
TITLE: Civil Engineer	September 09, 2008	September 09, 2008		
GOVERNMENT RESPONSE TO CONTRACTOR:				
Contract Drawing S3 through S5 show the 12:1 ramps as described. Provide and install accordingly. No change to the contract is required. The civil drawings do not provide the details needed.				
<p>NOTE: THE RFI SYSTEM IS INTENDED TO PROVIDE AN EFFICIENT MECHANISM FOR RESPONDING TO CONTRACTOR'S REQUESTS FOR INFORMATION. IT DOES NOT PROVIDE AUTHORITY TO PROCEED WITH ADDITIONAL WORK. IF THE CONTRACTOR CONSIDERS THE RFI RESPONSE A CHANGED CONDITION, PROVIDE WRITTEN NOTICE TO THE CONTRACTING OFFICER'S REPRESENTATIVE IN ACCORDANCE WITH CONTRACT PROVISIONS.</p>				

RFI FORM

Summary RFI Report

From the Contract Reports button you can get a listing of ALL or OUTSTANDING RFI's.



All Requests for Information

30 Oct 2009

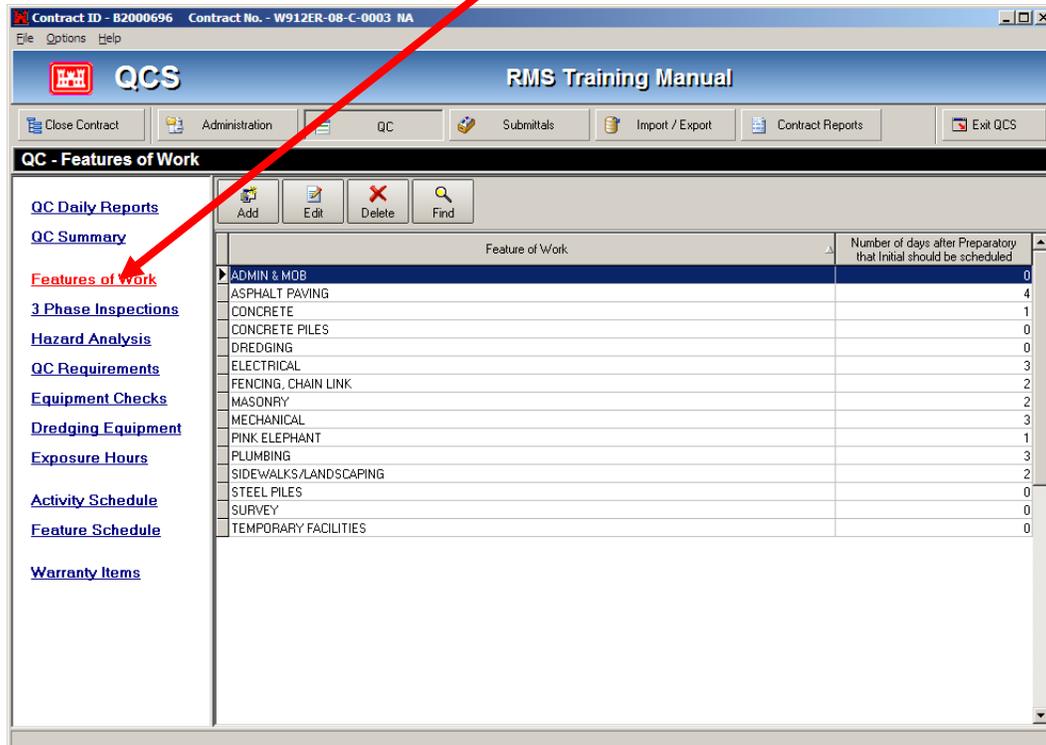
RMS Training Manual
W912ER-08-C-0003 NA

GRC Training Office

RFI No.	Date Requested	Date Answered	Requester's Name	Mod Required ?	RFI Subject - Information Requested
	Date Received		Answer Prepared by	Change No.	Government Response
RFI-0001	09/09/2008 09/09/2008	09/09/2008	Rick Krout Gregory M. Schulz, P.E.	N/A N/A	INFORMATION REQUESTED: Access Ramps - There are no HC access ramps shown on drawings and should be provided. GOVERNMENT RESPONSE: Contract Drawing S3 through S5 show the 12:1 ramps as described. Provide and install accordingly. No change to the contract is required. The civil drawings do not provide the details needed.
RFI-0001G	10/30/2009 10/30/2009	10/30/2009	John Sherman Barbara K. Cover Spear	N/A N/A	INFORMATION REQUESTED: Tree Designation - Please clarify the cost of planting Ficus Nitida in lieu of Tamarak. GOVERNMENT RESPONSE: Plant Ficus Nitida as recommended.
RFI-0002	12/10/2008 12/10/2008	12/10/2008	Fred	N/A N/A	INFORMATION REQUESTED: Ramp - No ramps are shown at entrances GOVERNMENT RESPONSE: okay - do the ramps at no extra costg
RFI-0003	10/30/2009		Johnny Appleseed	N/A N/A	INFORMATION REQUESTED: Tree Designations - Details on Contract Drawing L1 and L3 indicate that a "Tamarak" tree is to be planted. However, no such tree is described in the Tree Schedule on Contract Drawing L2 and this tree is not mentioned within the Specifications. Please let us know what kind and size of tree you desire.

QC Planning Data

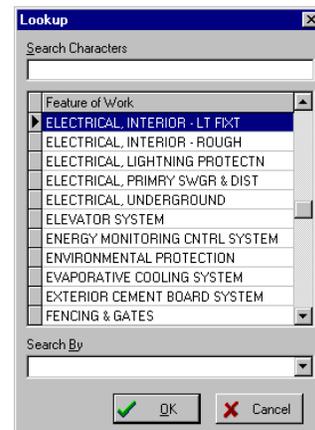
The next area of contract planning activities can be found under **Quality Control**, and includes the Features of Work, 3 Phase Inspections, Hazard Analysis, QC Requirements, and Equipment Checks as required by the contract.



Features of Work

In accordance with the terms of the contract, *Definable Features of Work* are required to be listed in the contractors' Quality Control Plan. Using the QCS program to create that list is an easy way for the Contractor to meet that requirement. However, even more important, **Features of Work** are tied to the contractor's pay activities providing both the Government and the Contractor invaluable information.

Features of Work are considered to be *general* categories of construction work that are referenced in the contract documents. A feature can be thought of as a phase of work requiring a separate *Preparatory Inspection* (typically, there is usually at least one for every technical specification section, with many having multiple). **It is important that both the Contractor and**



the Government have a clear understanding of the exact type of work the Feature of Work represents.

Contract Menu – Features of Work

This one of the entry points for the contractor **Features of Work**, as is required by the contract. The contractor is responsible to ensure that the features selected represent the work required by the contract and are addressed within his Quality Control Plan. (The other entry point is located in the Contractor Library – it is recommended that you use the Library and then you will be able to copy those directly into a contract without re-typing everything.)

Push the **Add** button to add the necessary features of work.

The screenshot shows the QCS software interface. The main window is titled 'Contract ID - B2000696 Contract No. - W912ER-08-C-0003 NA'. The menu bar includes 'File', 'Options', and 'Help'. The main menu has 'Close Contract', 'Administration', 'QC', 'Submittals', 'Import / Export', 'Contract Reports', and 'Exit QCS'. The 'QC - Features of Work' menu is open, showing a list of features and their corresponding 'Number of days after Preparatory that Initial should be scheduled'. The 'Add' button is highlighted with a red arrow. Below the menu, the 'Add Feature of Work' dialog box is open, showing a text field for 'Feature of Work' containing 'Drywall' and a numeric field for 'Number of days after Preparatory that Initial should be scheduled' containing '2'. A 'Lookup' dialog box is also open, showing a list of features with 'Drywall' selected. A red arrow points to the 'Lookup' dialog box.

Feature of Work	Number of days after Preparatory that Initial should be scheduled
ADMIN & MOB	0
ASPHALT PAVING	4
CONCRETE	1
CONCRETE PILES	0
DREDGING	0
ELECTRICAL	3
FENCING, CHAIN LINK	2
MASONRY	2
MECHANICAL	3
PINK ELEPHANT	1
PLUMBING	3
SIDEWALKS/LANDSCAPING	2
STEEL PILES	0
SURVEY	0
TEMPORARY FACILITIES	0

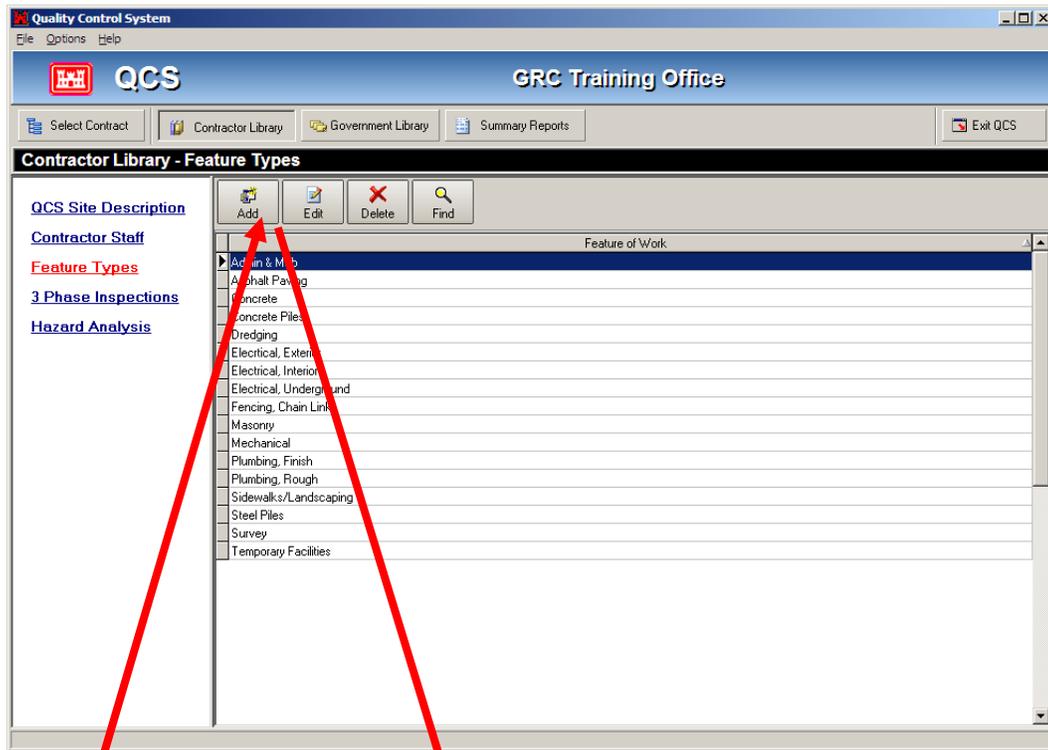
From this popup screen, you can type the description of the **Feature of Work** directly in the cell or, alternatively, use the lookup and make a selection from the list that is embedded within the QCS program from the **Contractor Library** as previously discussed.

You also enter the anticipated days after the *Preparatory Inspection* that the *Initial Inspection* will be scheduled.

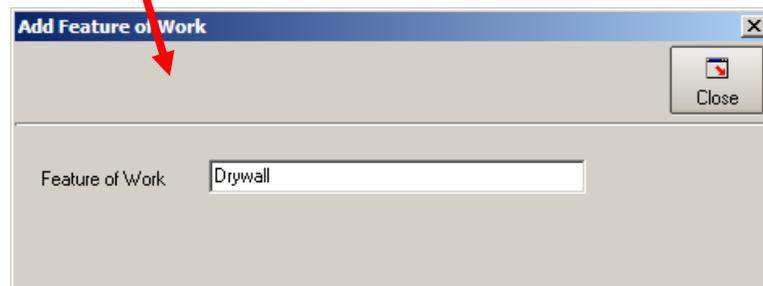
Repeat this process for all *Features of Work* that are listed in the **Contractor Quality Control Plan**.

Features of Work from the Contractor Library

In order to facilitate adding and describing Features of Work only one time, you may enter them in the Contractor Library, and then utilize them by using the lookup on all of your QCS contracts.

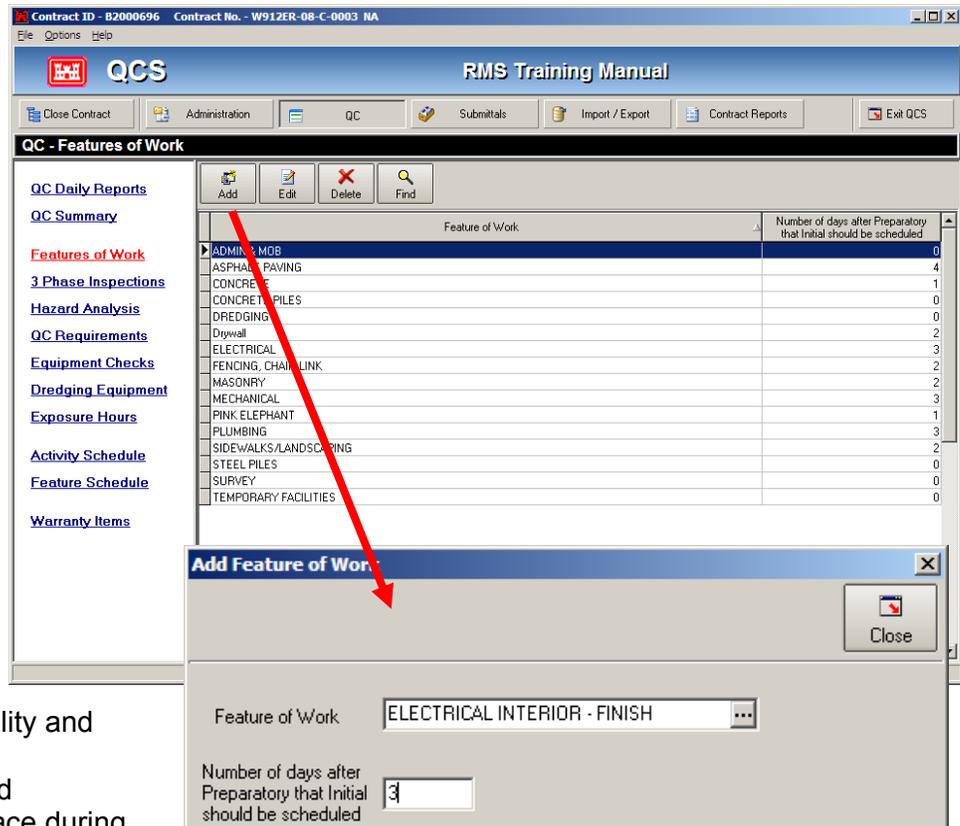


Select the **Add** button and enter your desired Feature of Work to be included in your Library.



Features of Work from the Contract Level

From within a Contract you can now press the **Add** button to select a **Feature of Work** that was previously entered in your Library. The planned number of days between the Preparatory and Initial Inspection should be carefully selected. The Initial Inspection always takes place following the Preparatory Inspection, but AFTER a representative sample of the work has been placed. This is to ensure that the quality and workmanship reflect the agreements reached and discussions that took place during the Preparatory Inspection meeting.



Within QCS and RMS, **Features of Work** are linked to three phase inspection checks. As such, **Features of Work** are an integral part to the power of the QCS *Inspection Check Sheets* and should be considered quite carefully.

The contractor will later attach (link) each pay activity to one of the **Features of Work**. Such pay activity can be linked to only a single feature. Yet, features can contain many pay activities.

3-Phase Inspections

The *3-Phase Inspections* within this QCS program, and the Government RMS program, utilize checks that are numbered, generally following the **CSI** specification format. The CSI-based numbering system is used in such references as *Sweets Catalogs*, *MEANS Estimating Books*, *Military Specifications*, and so forth. This is done in QCS and RMS to categorize various comments and items where they can easily be remembered and found and to minimize duplication of comments in various areas.

3-Phase Checks in Contractor Library

Building your Contractor Library using 3-Phase checks can be quite a time saver. You can then simply copy them from the library to any number of contracts. Although you can also add 3-phase checks at the contract level, the library approach will pay the biggest dividends in time and effort saved. The checks you add at the contract level will not be included in your library entries unless you specifically copy them to the library.

You will begin by selecting a **Feature of Work** and hitting the **Edit** button, or double mouse-click the desired item.

The screenshot shows the 'Quality Control System' interface for 'GRC Training Office'. The main window is 'Contractor Library - 3 Phase Inspections'. It contains a table with the following data:

Feature of Work	Number of Preparatory Checks	Number of Initial Checks	Number of Follow-up Checks
Admin & Mob	30	15	1
Asphalt Paving	25	27	10
Concrete	72	26	6
Concrete Piles	0	0	0
Dredging	0	0	0
Drywall	0	0	0
Electrical, Exterior	89	50	11
Electrical, Interior	145	70	21
	67	39	3
	50	23	3
	47	35	7
	163	76	17
	9	3	8
	54	22	16
	74	42	11
	0	0	0
	0	0	0
	0	0	0

The secondary window 'Drywall - 3 Phase Inspections' shows a tree view with 'Preparatory' selected. The context menu for the 'Add' button includes the following options:

- Manually Add Inspection Check
- Copy Checks from 3 Phase Inspections in Library
- Copy Checks from 3 Phase Inspections in a Contract
- Select Checks from 3 Phase Checks in Gov't Library
- Select Checks from Work Types in Gov't Library

This will be followed by a screen that you will add your checks to. The 3-phase inspection process is conducted at the Preparatory, Initial, and Final Follow-up

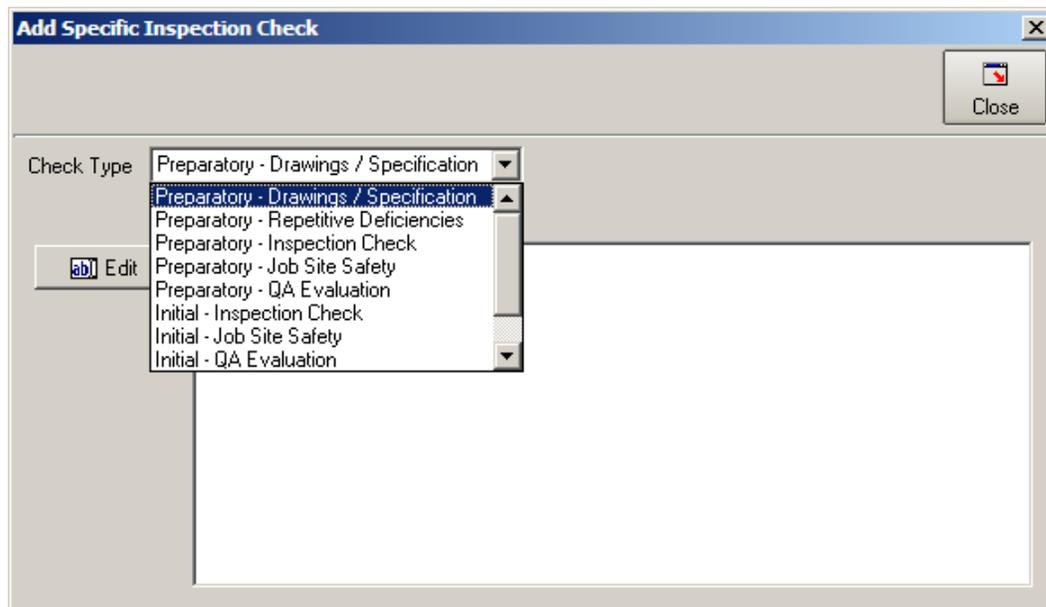
Select **Add** and note your choices:

- Manually Add Inspection Check
- Copy Checks in Library
- Copy Checks in a Contract
- Copy Checks in Gov't Library
- Select Types in Gov't Library

Manually Add Inspection Check

You would use this selection when you want to create checks based on your own, or company, knowledge or experience. The entries will be new and not included in other libraries. The checks you enter here should not be specific to any particular contract, but should be able to be used across many different contracts.

When you choose to add checks manually you will be presented with the following screen on which to record your check.



You first need to use the drop-down menu to select the type of check you wish to enter. This will determine when the check appears for your 3-phase inspections, and on what part of the Checklist it will become a part of.

Note: items listed under the heading “**Preparatory**” are discussed prior to work taking place, during a meeting with the appropriate Foremen, subcontractors, key workers, etc. Items listed under the heading “**Initial**” are relevant after work has proceeded and a representative sample of the work is in place and can be observed. The items under “**Final Follow-up**” become important after the work is completed and should verify that the end product complies with the terms of the contract and that the items discussed at the preparatory and initial meetings were adhered to.

- Preparatory – Drawings/Specifications

Comments entered here should pertain to typical drawing details, symbols, etc, or to basic specification (Guide Specifications) items that would apply to many different contracts and types of contracts. For example, you might want to point out that Civil Drawings should be checked for proper contour lines or stations and that these have been coordinated with your excavation activities.

- Preparatory – Repetitive deficiencies

The repetitive deficiencies that you, or your company, have experience in the past are a good thing to include so you will recognize that they may become an issue and remind your staff to pay particular attention to some detail or practice. These items can come from your records of previous contracts, or even magazine articles you may come across.

- Preparatory – Inspection Check

Here is where you might wish to remind your QC staff, and other trades, to LOOK (inspect) a particular item before proceeding with the next phase of the construction process. For example, for concrete formwork, you might enter a comment to “inspection of forms will be necessary to verify that they are properly constructed and provide adequate clearance for reinforcing steel prior to placement of concrete”.

- Preparatory – Job Site Safety

Safety is always important and there are many things that can be entered here. Such things as reminding workers to ensure proper Personal Protective Equipment (PPE) is available and should be used. You might wish to specifically point out items to check on scaffolding as it is erected, or being erected. Or, verify that proper tie-off measures are being used by roofers, and so forth.

- Preparatory – QA Evaluation

This is an area for the Government Quality Assurance Representative (Government Inspector) to write in their evaluation of how well you performed your 3-Phase inspection process. The comments are typically added after the contractor turns in the Daily Report and attachments and may be used in considering the Contractor’s overall Performance Evaluation at the end of the contract.

- Initial – Inspection Check

After work has begun you will want to point out items that should be verified prior to proceeding beyond the point-of-no-return. This will assist in avoiding tear-out or less than satisfactory work or procedures. You may re-emphasize what was discussed at the Preparatory meeting to ensure the agreements and cautions are being implemented.

- Initial – Job Site Safety

Here is where you will want to add comments to specifically check out particular safety items, practices, equipment, certifications, and so forth.

- Initial – QA Evaluation

Again, this is an area for the Government Quality Assurance Representative to make their comments on the effectiveness and success of the Contractors' 3-Phase Inspection process.

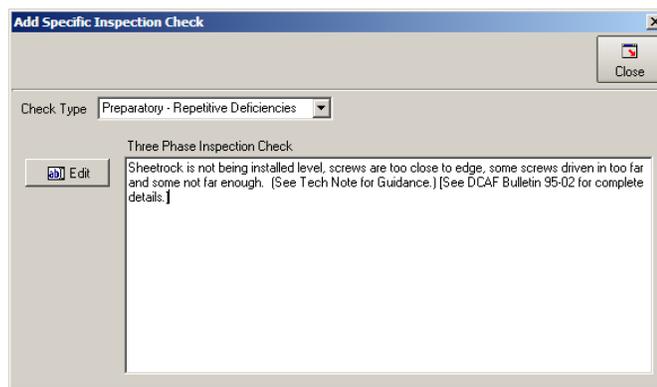
- Final Follow-up – Inspection Check

You will want to make entries that will evaluate the final product or procedure. For example, you might wish to add "Perform straight-edge test on all sidewalks to verify that 1/8-inch tolerance has been provided."

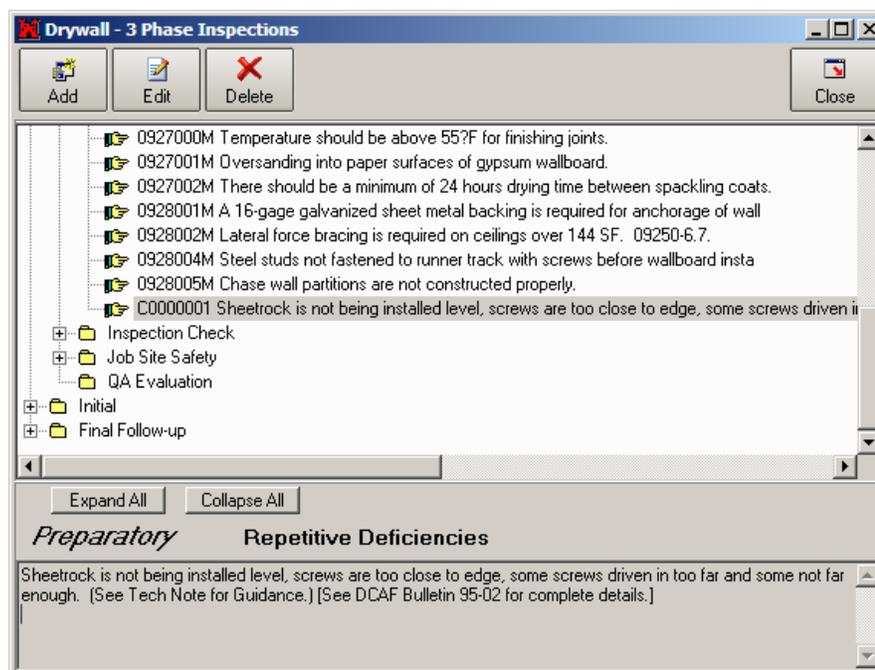
- Final Follow-up – QA Evaluation

Here is another, and final, area for the Government Quality Assurance Representative.

Once your type of check has been decided upon, you enter the comment in the memo field.



Close the window when completed and you will then see where the check appears in the hierarchy of the 3-Phase Inspection process.



Example of Adding Signature Blocks in Library

As an example of what can be done in this area, let's assume we would like to add a place on each control worksheet that can be endorsed following the meeting. You would want to do this at the library level for two basic reasons:

1. If you put them in your **Contractor Library** they can then be used on ALL of your contracts and ALL of your Features of Work. You would only have to enter them ONE time for each **Feature Type**.
2. If you have the control on input you can make it appear (look) like you want it to. The following is a suggestion that you can "cut and paste" in the Memo Field as explained below.

If you have the control on input you can make it appear (look) like you want it to. The following is a suggestion that you can 'cut and paste' in the memo field as I'll explain below.

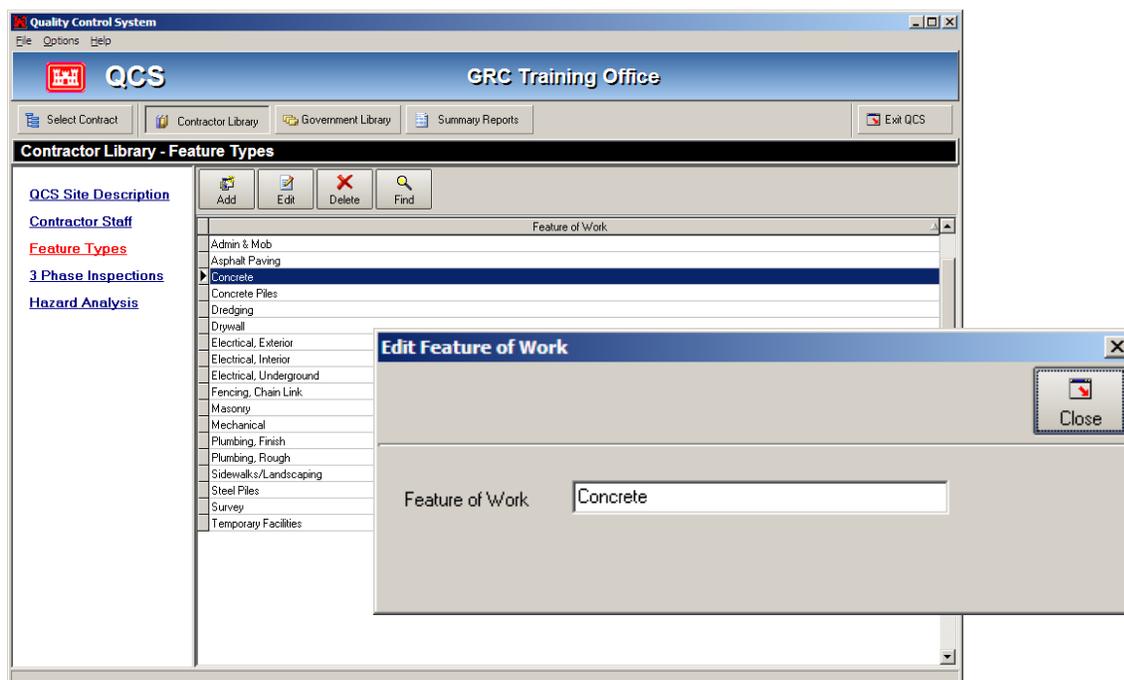
Attendees: _____

_____ Contractor Quality Control Representative

Date _____ Government Quality Assurance Representative Date _____

The process to add it in the Contractor Library is as follows:

1. Go to **Contractor Library** in QCS and select **Feature Types**. You may already have some **Feature Types** entered, but in this example I will add the feature called **CONCRETE**. You use the **ADD** button for that. (If you have entries already you would use the **EDIT** button.)

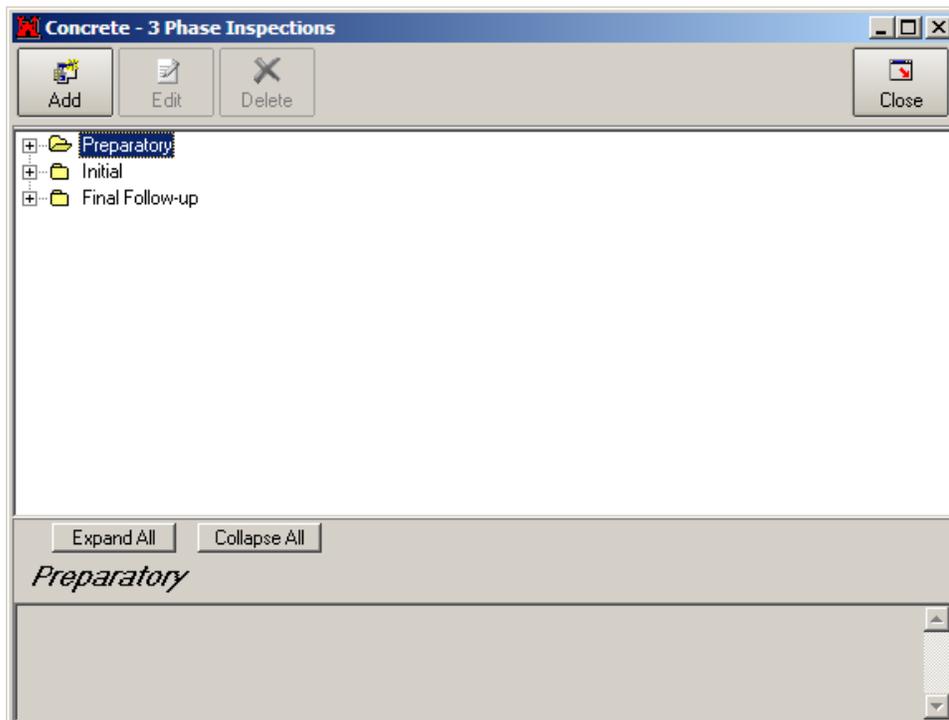


Quality Control System

2. Close the “Add Feature of Work” screen and then select **3 Phase Inspections**. You will observe the new **Feature Type** you just entered (**CONCRETE**). Select the **Edit** button.

Feature of Work	Number of Preparatory Checks	Number of Initial Checks	Number of Follow-up Checks
Admin & Mob	30	15	1
Asphalt Paving	25	27	10
Concrete	72	26	6
Concrete Piles	0	0	0
Dredging	0	0	0
Drywell	26	5	1
Electrical, Exterior	89	50	11
Electrical, Interior	145	70	21
Electrical, Underground	67	39	3
Fencing, Chain Link	50	23	3
Masonry	47	35	7
Mechanical	163	76	17
Plumbing, Finish	9	3	8
Plumbing, Rough	54	22	16
Sidewalks/Landscaping	74	42	11
Steel Piles	0	0	0
Survey	0	0	0
Temporary Facilities	0	0	0

3. You should then see the following entry screen. From this screen you would select the **ADD** button after you highlight the phase you want (i.e., **Preparatory**).



6. Your Contract report would then include something like this.

RMS Training Manual W912ER-08-C-0003 NA GRC Training Office	02 Nov 2009
PREPARATORY CONTROL WORKSHEET	
DEFINABLE FEATURE OF WORK : CONCRETE	
H. JOB SITE SAFETY - Cont.	
and the point of the nail bent over if possible. (29.F.07)	
13. For stability, single post shores shall be horizontally braced in both the longitudinal and transverse directions, and diagonal bracing shall also be installed. Bracing shall be installed along with erection.	___ ___ ___
14. Handles of buggies shall not extend beyond the wheels on either side of the buggy. Installation of knuckle guards on buggy handles is recommended. (EM 385-1-1, 18.O.06)	___ ___ ___
15. Riding on concrete buckets shall be prohibited and vibrator crews shall be kept out from under concrete buckets suspended from cranes or cableways. (EM 385-1-1, 18.O.09)	___ ___ ___
16. When discharging on a slope, the wheels of ready-mix trucks shall be blocked and the brakes set to prevent movement. (18.O.10)	___ ___ ___
17. Nozzle operators applying a cement, sand, and water mixture through a pneumatic hose shall wear protective hand and face equipment.(18.O.11)	___ ___ ___
18. Handles on bull floats used where they may contact energized electric wires shall be constructed of nonconductive material or insulated with a nonconductive sheath of equivalent insulating value. (18.O.04)	___ ___ ___
19. Powered and rotating concrete troweling machines that are manually guided shall be equipped with a control switch that will automatically shut off the power whenever the operator removes his/her hands. 18.O.5	___ ___ ___
20. Each welding or cutting unit shall be equipped with a compatible fire extinguisher.	___ ___ ___
21. _____	___ ___ ___
22. _____	___ ___ ___
23. _____	___ ___ ___
24. _____	___ ___ ___
I. QUALITY ASSURANCE EVALUATION NOTES -	
1. Attendees: _____	DISCUSSED Yes / No / NA ___ ___ ___

_____ Contractor Quality Control Representative	
Date	
_____ Government Quality Assurance Representative	
Date	
2. _____	___ ___ ___
3. _____	___ ___ ___

Quality Control System

7. In step number 3, above, we MANUALLY added the comment. There is an alternative way to get the same result. From that drop-down menu, you could select **“Select Checks from 3 Phase Checks in Govt Library”**. On the screen that pops up, you would then select **“014 QUALITY CONTROL AND QUALITY ASSURANCE”** in the left pane. In the right pane put a check in number **0142011M Attendees:”** The process would then be completed as above, except there is no need to cut-and-paste. The window would then look like the following:

ELECTRICAL - 3 Phase Inspections

Close

<ul style="list-style-type: none"> 01 GENERAL REQUIREMENTS <ul style="list-style-type: none"> 010 OVERHEAD & MISCELLANEOUS DATA 012 PRICE & PAYMENT PROCEDURES 013 SUBMITTALS AND SCHEDULES 014 QUALITY CONTROL AND QUALITY ASSU 015 CONSTRUCTION FACILITIES AND TEMP. 016 MATERIAL AND EQUIPMENT, GENERAL 017 CONTRACT CLOSEOUT 018 SAFETY ITEMS AND COMMENTS 019 LOCAL REGULATIONS AND PROCEDURE 02 SITE WORK 03 CONCRETE 04 MASONRY 05 METALS 	<ul style="list-style-type: none"> <input type="checkbox"/> 0140000M Review requirements for 3-phase inspectio <input type="checkbox"/> 0140001M Review recording requirements to include <input type="checkbox"/> 0141000M Coordinate test laboratory inspection and t <input type="checkbox"/> 0141001M Are all laboratory test results acceptable? <input type="checkbox"/> 0142000M Inconsistent test results due to use of impr <input type="checkbox"/> 0142001M Surface variation not within the specified li <input type="checkbox"/> 0142002M Improper curing of test cylinders. <input type="checkbox"/> 0142003M Has preliminary work been satisfactorily ac <input type="checkbox"/> 0142004M Are all materials/equipment for testing on t <input type="checkbox"/> 0142005M Did the contractor conduct a thorough INS <input type="checkbox"/> 0142006M Is the contractor's QC STAFF qualified to i <input type="checkbox"/> 0142007M Is the contractor adequately prepared to b <input type="checkbox"/> 0142008M Insure that periodic compaction tests are c <input type="checkbox"/> 0142009M Is the compacted thickness as specified? <input type="checkbox"/> 0142010M Secure test samples as required by the Qu <input checked="" type="checkbox"/> 0142011M Attendees: <input type="checkbox"/> 0142012M Are Marshal Test results provided and are <input type="checkbox"/> 0142013M Are all test results within the specified limits
--	---

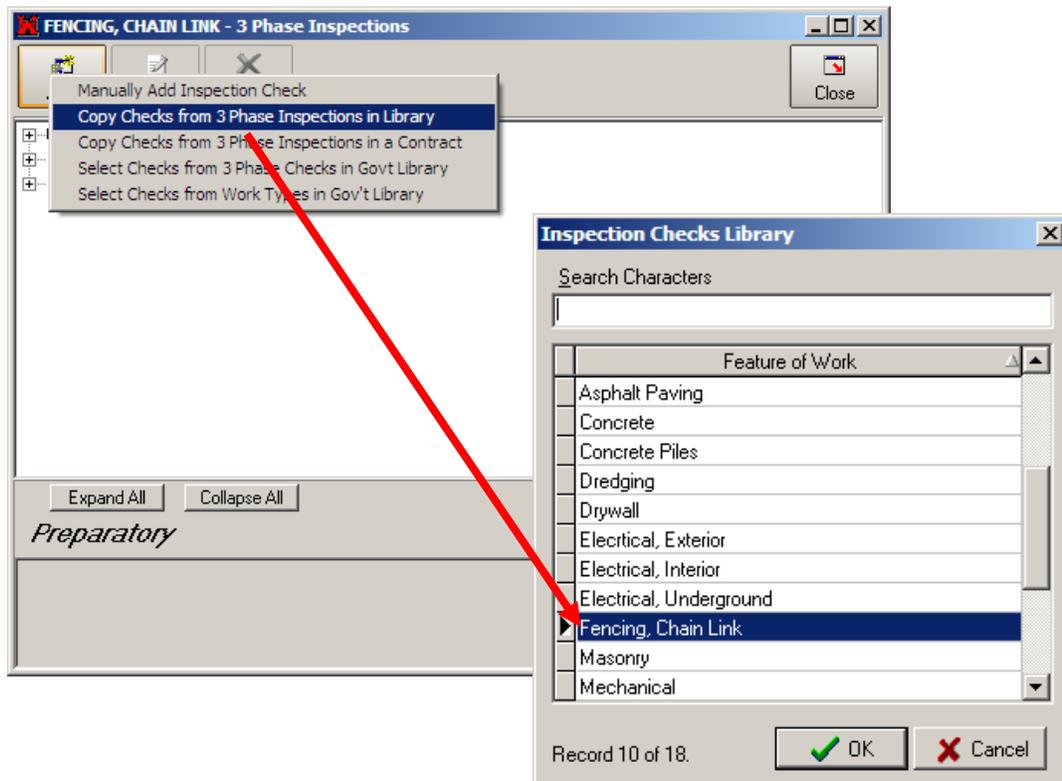
Preparatory **QA Evaluation**

Contractor Quality Control Representative

Date _____ Government Quality Assurance Representative Date _____

Copy Checks from 3 Phase Inspections in Library

This selection is used when you wish to simply copy existing checks already in your library. This might be helpful when you have entered checks on a particular Feature of Work and that check would also be applicable to another feature of work. You would first be adding checks to an individual Feature of Work (i.e., Concrete – Cast-in-Place) and then copy checks from another Feature of Work (i.e., Concrete – Sidewalks). You can then add, modify, or accept the comments copied from the secondary Feature of Work.



Copy Checks from 3 Phase Inspections in a Contract

This selection applies when you, or somebody else, may have created worthy checks at a contract level, but they are generic enough to be included in the Library for use at other contracts.

You then select the contract from which to copy from.

Contract Office	Contract ID/No	Contract Title
CENWP-EC-R	w9127N-05-C-0025	Bonneville FGE & VBS Modifications
CENWP-EC-R	w9127N-06-C-0013	JBS Full Flow PIT Tag Detection System

The Features of Work that are listed in that contract will then appear.

You select the feature you want to use from your chosen contract.

Feature of Work
Concrete - Cast-In-Place
Concrete - Sidewalks
Electrical, Aerial
Electrical, Interior - Finish
Electrical, Interior - Rough
Plumbing, Interior - Rough
Structural Steel

Copy Checks from 3 Phase Checks in Gov't Library

The Government has compiled hundreds of checks, based on a number of contracts, specification sections, industry standards, and so forth. You may copy these directly into your own library and then be able to delete, add, or modify the Government checks to meet your own needs or Company experiences.

The image consists of three overlapping screenshots of the Quality Control System software interface, illustrating the process of copying checks from a government library.

Top Screenshot: A window titled "04 20 00 MASONRY CMU - 3 Phase Inspections" is shown. A context menu is open, listing several options. The option "Select Checks from 3 Phase Checks in Gov't Library" is highlighted in blue. A red arrow points from this menu item to the middle screenshot.

Middle Screenshot: The same window is shown, but now displaying a list of inspection checks. The list is organized into categories: 01 GENERAL REQUIREMENTS, 02 SITE WORK, 03 CONCRETE, 04 MASONRY, 05 METALS, 06 WOOD AND PLASTICS, 07 THERMAL AND MOISTURE PROTECTION, 08 DOORS, WINDOWS AND GLAZING, 09 FINISHES, and 10 SPECIALTIES. Under the "04 MASONRY" category, there are sub-items: 041 MORTAR AND MASONRY ACCESSORIES, 042 UNIT MASONRY, 044 STONE, and 045 MASONRY RESTORATION&CLEANING/P. A list of specific checks is displayed on the right, with checkboxes. The check "0422000M CMU is dry when delivered, per ASTM, but is not protected on jobsite." is selected with a checkmark. A red arrow points from this check to the bottom screenshot.

Bottom Screenshot: The same window is shown, but now displaying a tree view of the project library. The "Preparatory" folder is expanded, showing a list of items. The check "0422000M CMU is dry when delivered, per ASTM, but is not protected on jobsite." is now listed under the "Repetitive Deficiencies" folder. The "Final Follow-up" folder is also visible. The "Preparatory" folder is highlighted in blue. A red arrow points from the middle screenshot to this folder.

You are taken to the Government library entries where you select the Feature of Work you are working on from the lookup, then select the individual items you wish to include in your listing.

Your entries will then include the selections you made from the Government Library.

You can also edit any comment or check you copied from another source.

Copy Checks from Work Types in Gov't Library

This is by far the easiest and quickest way to build your database. The checks in this area are already defined by Feature of Work (Work Types) and take advantage of all the Government checks with minimal selection effort on your part. Like the checks you might copy from the Government Library, you would also want to delete, add, or modify these to meet your own needs and practices.

The screenshot shows two windows from the Quality Control System. The top window displays a context menu with the following options:

- Manually Add Inspection Check
- Copy Checks from 3 Phase Inspections in Library
- Copy Checks from 3 Phase Inspections in a Contract
- Select Checks from 3 Phase Checks in Gov't Library
- Select Checks from Work Types in Gov't Library** (highlighted with a red arrow)

The bottom window shows a tree view of work types under the heading "Preparatory". The selected item is "053000M METAL DECKING".

The tree view includes the following categories and sub-items:

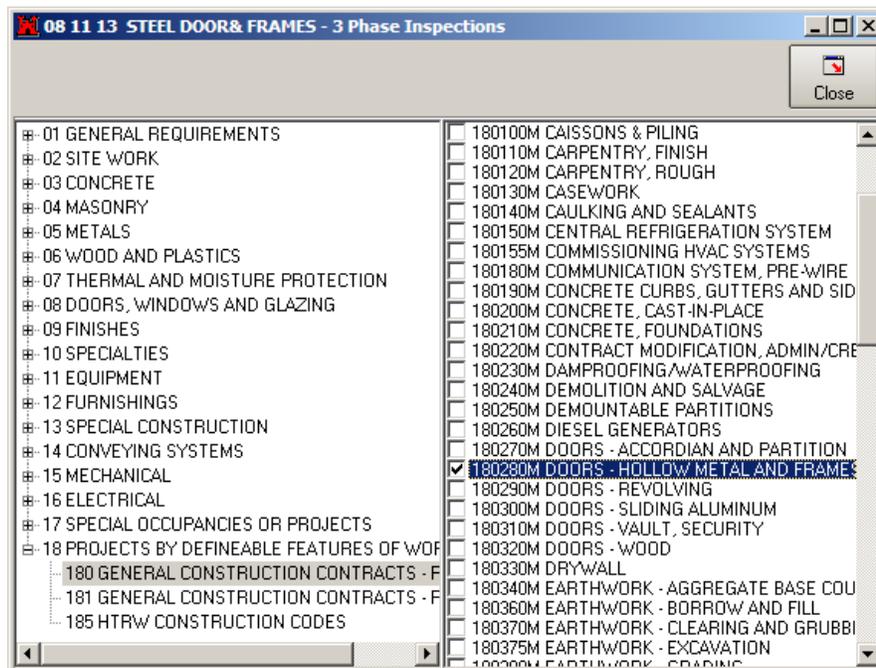
- 01 GENERAL REQUIREMENTS
- 02 SITE WORK
- 03 CONCRETE
- 04 MASONRY
- 05 METALS
 - 050 METAL MATERIALS, COATINGS AND FINISHES
 - 051 STRUCTURAL METAL FRAMING
 - 052 METAL JOISTS
 - 053 METAL DECKING**
 - 054 COLD FORMED METAL STUDS
 - 055 METAL FABRICATIONS
 - 057 ORNAMENTAL METAL
 - 058 EXPANSION CONTROL
 - 059 HYDRAULIC STRUCTURES
- 06 WOOD AND PLASTICS
- 07 THERMAL AND MOISTURE PROTECTION
- 08 DOORS, WINDOWS AND GLAZING
- 09 FINISHES
- 10 SPECIALTIES
- 11 EQUIPMENT
- 12 FURNISHINGS
- 13 SPECIAL CONSTRUCTION

The checks you choose from the Work Types in the Government Library include ALL the comment in the database for a particular type of work.

This is where you will get the most information for the least amount of effort.

The BIGGEST Short-cut from the Government Library

If you don't remember any of the above steps, remember the **NUMBER 18**. In the Government Library (either choice you make) an entry has been made of “**Projects by Definable Features of Work**”. This area lists various items that are categorized by Feature of Work (F.O.W.). Simply check the corresponding F.O.W. and you have the entire database with a single checkmark. These F.O.W. checks include safety items, as well as technical information on the particular subject. It also contains a section on HTRW Construction codes. As these are selected you may modify or delete individual checks in a particular contract or from your Contractor Library.



The End-Result of your Library entries

When you have completed making entries for a specific Feature of Work, you can see the result in how many checks you have entered for each of the 3-Phase areas (Preparatory, Initial, and Follow-up). You should end up with entries in all locations. Concentrate on the quality of your entries rather than quantity.

The screenshot shows the QCS interface for the Los Angeles District. The main window is titled "Contractor Library - 3 Phase Inspections". On the left, there is a navigation menu with links for "QCS Site Description", "Contractor Staff", "Feature Types", "3 Phase Inspections" (highlighted in red), and "Hazard Analysis". The main area contains a table with the following data:

Feature of Work	Number of Preparatory Checks	Number of Initial Checks	Number of Follow-up Checks
Concrete	72	26	6
Drywell	31	6	1



If you do not have any checks for a particular period (e.g., preparatory – initial – follow-up), you probably need to reconsider the work that will be taking place.

3-Phase Checks at the Contract level

Checks entered from the contract level should be specific to the particular contract. These checks will not automatically become part of the Contractor Library that can be used for multiple contracts.

The procedures used for entry at the contract level are identical to the Library entries just discussed. The only difference is that the Contract-level entries should be unique to your contract.

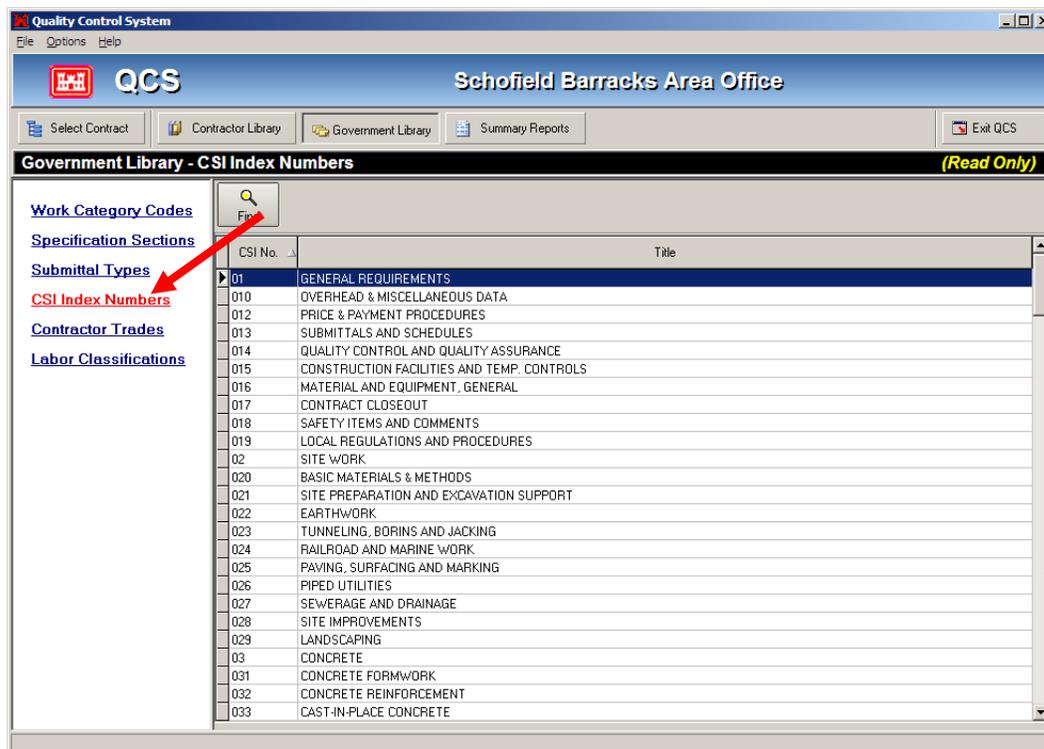
The screenshot shows the QCS RMS Training Contract software interface. The window title is "Contract ID - L1001373 Contract No. - W912PP-07-C-0010 NA". The main menu includes "File", "Options", and "Help". The application title is "QCS RMS Training Contract". The main menu bar contains "Close Contract", "Administration", "QC", "Submittals", "Import / Export", "Contract Reports", and "Exit QCS". The main window displays "QC - 3 Phase Inspections" with a search bar and a table of inspection data.

Feature of Work	Number of Preparatory Checks	Number of Initial Checks	Number of Follow-up Checks
▶ ACCORDIAN PARTITIONS	116	96	9
ACOUSTICAL TREATMENT, CEILINGS	12	10	4
ADMINISTRATION & MOBILIZATION	0	0	0
ARCH FURNISHINGS, INT/EXT	11	6	1
ASPHALT PAVING	19	15	5
BLEACHERS	0	0	0
BUILDERS HARDWARE	0	0	0
BUILDING INSULATION-RIGID/BATT	1	0	0
CARPENTRY - ROUGH	8	1	0
CASEWORK	9	6	5
CAULKING & SEALANTS	20	11	2
CONCRETE, CAST-IN-PLACE	48	22	5
Cleaning and grubbing	0	0	0
DEMOLITION	0	0	0
DODRS - HOLLOW METAL & FRAMES	0	0	0
DRYWALL	29	7	1
Drilled Foundation Caissons	0	0	0
EARTHWORK - AGG BASE COURSE	6	6	1
EARTHWORK - BORROW AND FILL	0	0	0
ELECTRICAL, INTERIOR - FINISH	0	0	0
ELECTRICAL, INTERIOR - ROUGH	0	0	0
ELECTRICAL, LIGHTNING PROTECTN	0	0	0
ELECTRICAL, UNDERGROUND	0	0	0
ELEVATED STEEL WATER TANK	0	0	0

How Features and 3-Phase Checks are related

The **Government Library** accessed from the main QCS Menu (Logon Menu), includes the listing of the **CSI Index Numbers** that are used in the QCS and RMS programs. This library is the mainstay of the 3-phase inspection check worksheets. Extensive relationships have been established based on previous construction experience and this can be invaluable as you manage your contract. Each of the feature types has a set of checks linked to them.

Government Library Window

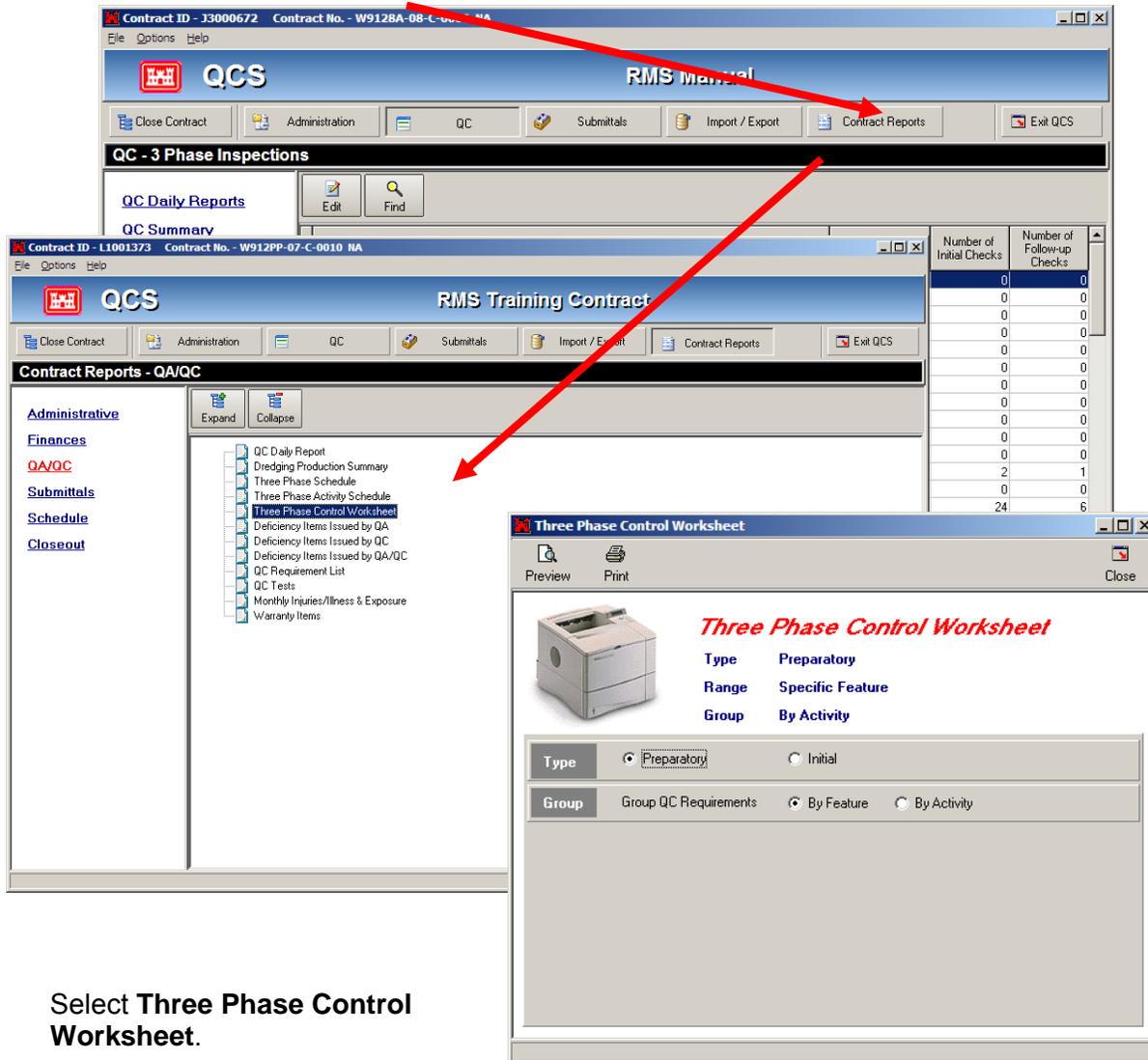


The information from the Government library can only be changed, deleted or edited within the QCS program after it is copied into the Contractor Library, as previously discussed. The Government RMS Center is tasked with the actual data element maintenance.

Reports – Three Phase Inspection Checklists

Our report is a **Contract** related report. Therefore, ensure that you have pushed the **Contract** button, at the top of the screen. The report is then found under the category of **Quality Control**. Push the **Three Phase Control Worksheet** from the list on the screen to review the report (Double-mouse click).

 Contract Reports



The screenshot shows the QCS software interface. The top window is titled "Contract ID - J3000672" and "Contract No. - W9128A-08-C-0010 IA". The menu bar includes "File", "Options", and "Help". The main menu has "Close Contract", "Administration", "QC", "Submittals", "Import / Export", "Contract Reports", and "Exit QCS". The "Contract Reports" button is highlighted with a red arrow. Below the menu is a section titled "QC - 3 Phase Inspections" with "QC Daily Reports" and "QC Summary" options. The second window is titled "Contract ID - L1001373" and "Contract No. - W912PP-07-C-0010 IA". The menu bar is similar. The main menu has "Close Contract", "Administration", "QC", "Submittals", "Import / Export", "Contract Reports", and "Exit QCS". The "Contract Reports - QA/QC" section is expanded, showing a tree view of reports. The "Three Phase Control Worksheet" is selected and highlighted with a red arrow. The third window is titled "Three Phase Control Worksheet" and has a "Preview" button highlighted with a red arrow. The window displays the report title "Three Phase Control Worksheet" and the following information:

Type	Preparatory	Initial
Type	<input checked="" type="radio"/> Preparatory	<input type="radio"/> Initial
Group	Group QC Requirements	<input checked="" type="radio"/> By Feature <input type="radio"/> By Activity

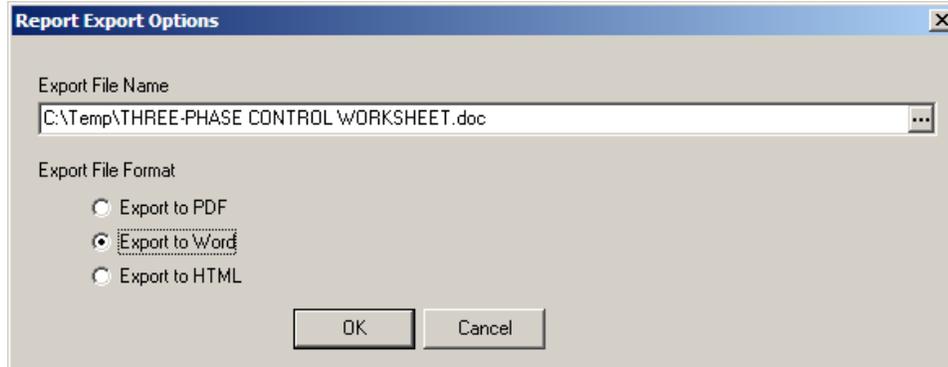
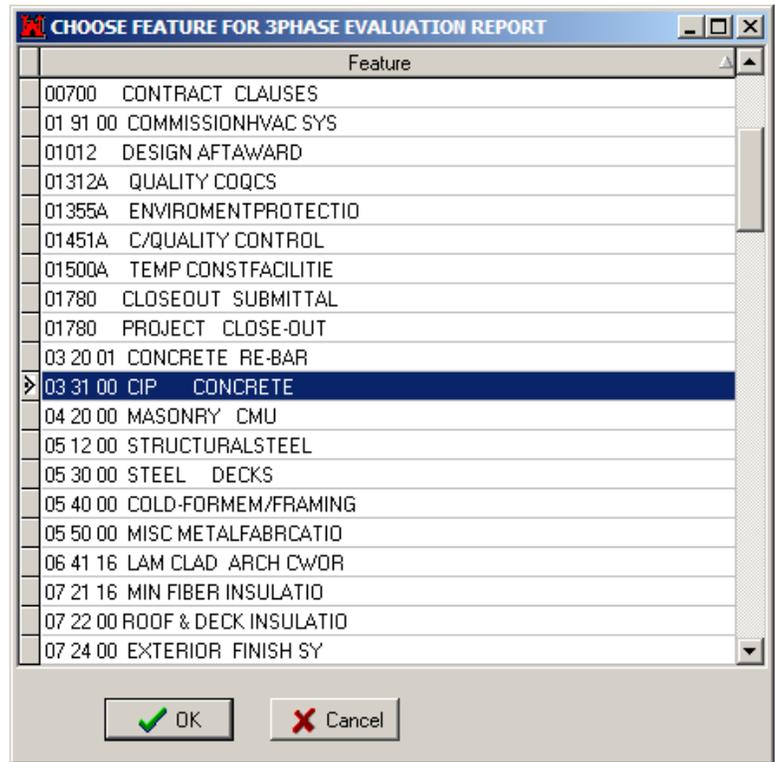
Select **Three Phase Control Worksheet**.

The report can take on several “looks and formats”, but we will select the **Type** (*Preparatory*) and **Group** (*By Feature*) and **Preview** the report by pushing the **Preview** button at the top left of the window.

We then simply highlight the **Feature of Work** we desire the report to reflect. In this case, choose **CIP - Concrete** in accordance with our previous entry and push the **OK** button at the bottom of the window.

You will be provided with a FIVE PAGE worksheet based on the CHECKS you entered in previous screens.

The report will appear and may be reviewed prior to printing. It can also be exported to file in MS© Word or HTML format or to an Acrobat© PDF file.



The next images shows a partial report exported as a Word document (object).

Quality Control System

RMS Manual W9128A-08-C-0006 NA Schofield Barracks Area Office		02 Nov 2009
PREPARATORY CONTROL WORKSHEET		
DEFINABLE FEATURE OF WORK : 03 31 00 CIP CONCRETE		
A. ACTIVITIES INCLUDED UNDER 03 31 00 CIP CONCRETE -		
RMS Manual		
A0C146	CONCRETE, FOUNDATION	
A0C210	SOG FORMS, REBARS, CONCRETE PO	
A0C390	CONCRETE, SOG	
A0N167	CONCRETE STAIRS	
A0N176	BIKE PAD & RACK	
B. QUALITY CONTROL REQUIREMENTS -		
SUBMITTALS REQUIRED -		
03 31 00.00 10 1	Concrete Mixture Proportion	F Receipt
03 31 00.00 10 2	Compressive Strength Test Reports	F Receipt
03 31 00.00 10 3	Portland Cement Type I/II	F Receipt
03 31 00.00 10 4	Fine Aggregates	F Receipt
03 31 00.00 10 5	Coarse Aggregate	F Receipt
03 31 00.00 10 6	Chemical Admixtures Pozzolith 220N	F Receipt
03 31 00.00 10 7	Chemical Admixtures Pozzolith 100XR	F Receipt
03 31 00.00 10 8	Chemical Admixtures Micro Air	F Receipt
03 31 00.00 10 9	Qualification Testing Laboratory	F Receipt
03 31 00.00 10 10	Qualification Testing Technician	F Receipt
03 31 00.00 10 11	Curing Compound	F Receipt
03 31 00.00 10 12	Vapor Barrier	F Receipt
03 31 00.00 10 13	Concrete Strength Test Report, 7 days	F Receipt
03 31 00.00 10 14	Concrete Strength Test Report, 7 days	F Receipt
03 31 00.00 10 15	Concrete Strength Test Report, 28 Days	F Receipt
03 31 00.00 10 16	Concrete Strength Test Report, 28 days	F Receipt
03 31 00.00 10 17	SOG Compressive Strength Test Report	F Receipt
03 31 00.00 10 18	SOG Compressive Strength Test Report	F Receipt
QC TESTS -		
CT # 00016	Concrete for CMU footings was tested for Compressive Strength @ the age of seven days having a slump of 4.5 inches. Date sampled was 12/2/2008. Test was performed by Construction & Engineering Lab with a Report No. 984. Specimen number 1-A tested with a maximum load of 43,205 lbs, the compressive strength was 3,440 psi. Specimen number 1-B tested with a maximum load of 38,635 lbs, the compressive strength was 3,070 psi.	Passed
CT # 00017	Concrete for CMU footings was tested for Compressive Strength @ the age of seven days with a slump of 5.25 inches. Date sampled was 12/2/2008. Test was performed by Construction & Engineering Lab with a Report No. 984. Specimen No. 2-A tested with a maximum load of 40,360 lbs, the compressive strength was 3,210 psi. Specimen No. 2-B tested with a maximum load of 40,555 lbs, the compressive strength of 3,230 psi.	Passed
CT # 00018	Concrete for CMU footings was tested for Compressive Strength @ the age of seven days period with slump of 4.0 inches. Date sampled was 12/2/2008. Performed by Construction & Engineering Lab with a report No. 1015. Specimen No. 1-A was tested with a maximum load of 57,930 lbs, compressive strength was 4,610 psi. Specimen No. 1-B tested with a maximum load of 56,125 lbs,	Passed

Hazard Analysis (Safety)

The contract "Safety and Health Requirements Manual" (EM 385-1-1), includes the following requirement for developing an Activity Hazard Analysis (AHA):

01.A.13. Contractor-Required AHA. Before beginning each work activity involving a type of work presenting hazards not experienced in previous project operations or where a new work crew or sub-contractor is to perform the work, the Contractor(s) performing that work activity shall prepare an Activity Hazard Analysis.

This release of QCS program includes the tools needed to prepare this Activity Hazard Analysis. We have historically referred to this document as an "Activity Hazard Analysis" (AHA). We need to realize that the AHA is really keyed around the activities required to accomplish a certain **Feature of Work** and addresses any hazards, or potential hazards, that may be associated with work anticipated to be required while doing the actual work.

The Contractor can develop the required AHAs in the **Contractor Library** and use this for all contracts in the QCS database. The individual AHAs may also be edited at the contract level to tailor it for a specific (unique) contract hazard that might exist. The Contractor should add an AHA for every **Feature of Work** that is listed within the **Contractor Library** and as listed in the Contractor's CQC Plan. You are able to copy the AHA from one Feature Type to another Feature Type in the Library.

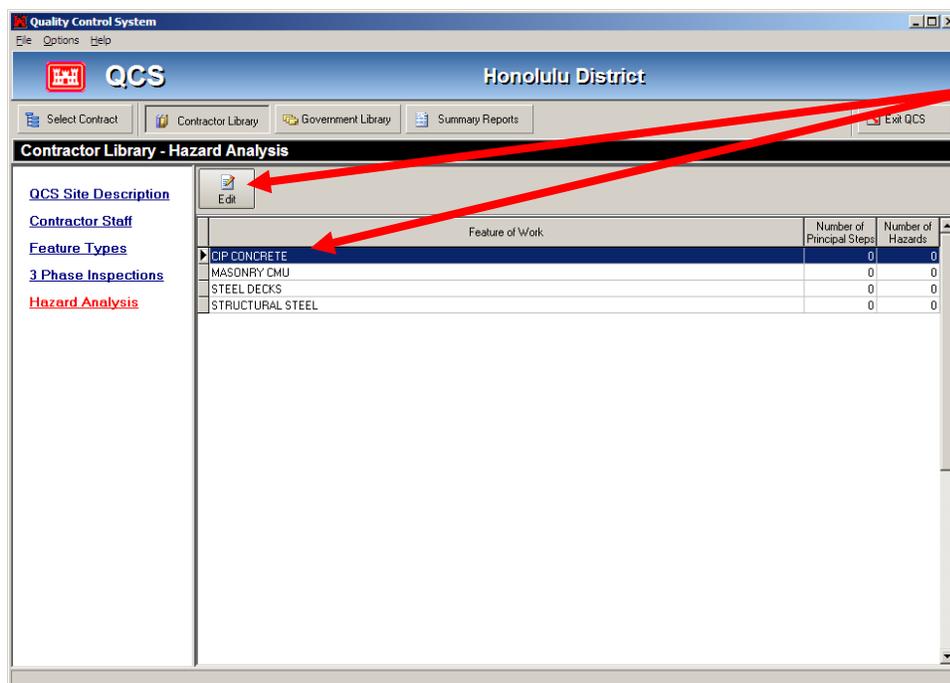
The following extract is taken from EM 385-1-1, 01.A.13:

- a. AHAs shall define the activities being performed and identify the work sequences, the specific anticipated hazards, site conditions, equipment, materials, and the control measures to be implemented to eliminate or reduce each hazard to an acceptable level of risk.
- b. Work shall not begin until the AHA for the work activity has been accepted by the GDA and discussed with all engaged in the activity, including the Contractor, subcontractor(s), and Government on-site representatives at preparatory and initial control phase meetings.
- c. The names of the Competent/Qualified Person(s) required for a particular activity (for example, excavations, scaffolding, fall protection, other activities as specified by OSHA and this manual) shall be identified and included in the AHA. Proof of their competency / qualification shall be submitted to the GDA for acceptance prior to the start of that work activity.
- d. The AHA shall be reviewed and modified as necessary to address changing site conditions, operations, or change of competent/qualified person(s).
 - (1) If more than one Competent/Qualified Person is used on the AHA activity, a list of names shall be submitted as an attachment to the AHA. Those listed must be Competent/Qualified for the type of work involved in the AHA and familiar with current site safety issues.
 - (2) If a new Competent/Qualified Person (not on the original list) is added, the list shall be updated (an administrative action not requiring an updated AHA). The new person shall acknowledge in writing that he or she has reviewed the AHA and is familiar with current site safety issues.

After the AHA is marked as completed in QCS, it is exported to the Government RMS program. The AHA is reviewed by the Resident Engineer (COR/ACO) and the District Safety Office (if required). The Government Staff has the responsibility to review the AHA and accept or reject it. They will provide comments back to the Contractor QCS program when the review is complete.

(Activity) Hazard Analysis – Contractor Library

You will select the **Feature of Work** you wish to create the AHA for, and click the **Edit** button in the **Contractor Library**. The list you see is created from the features of work you already added in the library. We will review the process of entering an AHA for **CIP CONCRETE**.



Highlight **CIP CONCRETE** and then click the Edit button at the top of the screen.

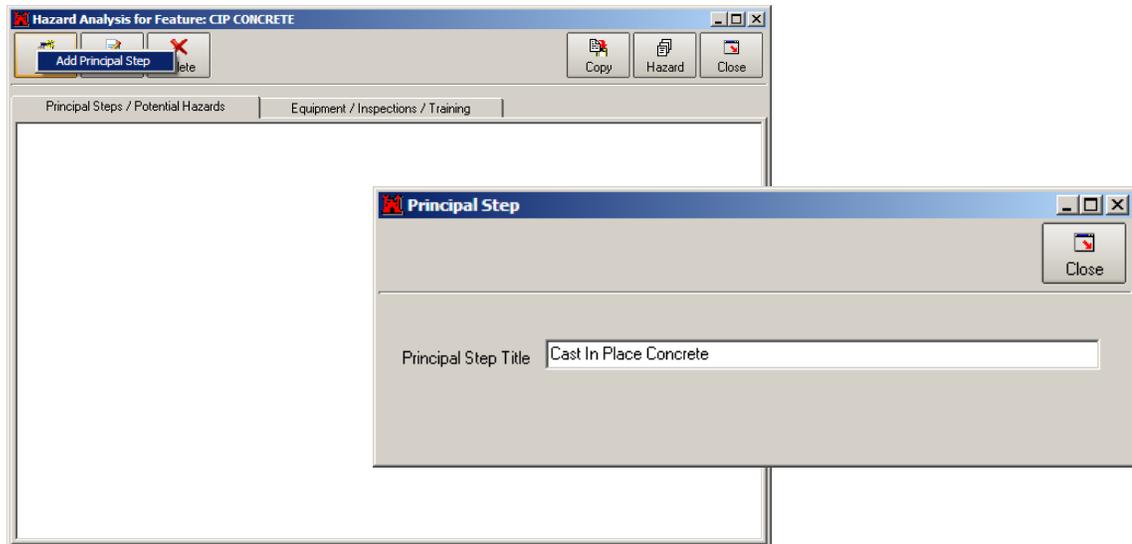
An AHA is made up of the following elements in QCS:

- Principal Steps – Includes Hazards and Controls
- Equipment – Equipment required for performing the work
- Inspections – List of required Contractor Inspections for the work
- Training – List of required training that might be anticipated

You should progress through the screens, one at a time, listing the relevant information. The example that follows includes screen shots of each tab.

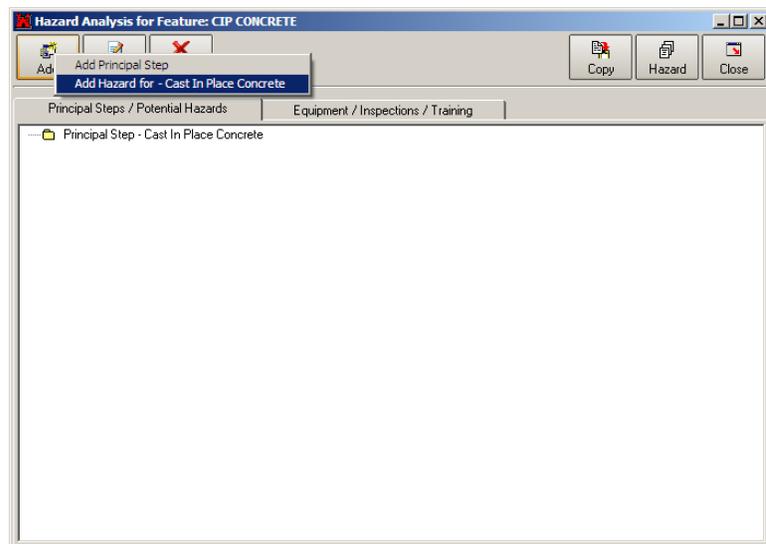
Principle Steps

a. List the steps necessary to accomplish the work and all relevant hazards. You then address the controls you anticipate necessary to avoid the hazards. Use the **Add** button and select **Add Principal Step** and enter the **Principal Step Title** in the block provided. (Note: After the AHA has been completed and exported to the Government, only the **View** button will be available.)



b. Select the **Add** button for each **Principal Step** and add as many **Potential Safety/Health Hazards** there may be.

c. Select the **Add** button again to enter the **Hazard for the Principal Step** entered.



Quality Control System

d. Enter the **Hazard** and **Recommended Controls** for the Hazard using the fields provided.

e. Repeat this process for each Hazard.

f. Sample AHAs (courtesy of Gulf Region Division) can be found at the following website:

[http://www.grd.usace.army.mil/safety/library/Sample%20Activity%20Hazard%20Analyses%20\(AHAs\)/](http://www.grd.usace.army.mil/safety/library/Sample%20Activity%20Hazard%20Analyses%20(AHAs)/)

Equipment to be Used

Your list of equipment should be all inclusive pertaining to the **Feature of Work** and the hazards that might be associated with it. You can enter the equipment directly on this screen, or use the **Edit** button for a larger screen and font size should you desire it.

Inspection Requirements

Identify the inspections you will perform to ensure avoidance of hazards or accidents. As with the **Equipment** entries, you can enter the inspections directly on this screen or use the **Edit** button, such as shown here.

Training Requirements

Training listed can include any Certified Training as may be required, special training required by the equipment manufacturer, and even On-the-Job training that may be provided or necessary.

Hazard Analysis Report - Contract



US Army Corps of Engineers

Hazard Analysis - LIBRARY FEATURE: CIP CONCRETE

02 Nov 2009

Principal Steps	Potential Safety/Health Hazards	Recommended Controls
Cast In Place Concrete	Concrete pumping mishap	Inspect ground stability for pump truck placement.
	Cuts, Personal Injury	Impalement hazard must be covered with safety caps. Good housekeeping must be maintained.
	Skin Injury, Concrete Burns & Splatter in Eyes	Freshly mixed cement, mortar, concrete, or grout may cause skin injury. Avoid contact where possible and wash exposed skin promptly with water. Ensure PPE is being utilized.
	Struck By	Only certified operator shall operate pump truck. Ensure personnel stands clear of boom. Assign individual to guide pump pipe.



US Army Corps of Engineers

Hazard Analysis - LIBRARY FEATURE: CIP CONCRETE

02 Nov 2009

Equipment to be used	Inspection Requirements	Training Requirements
Pump Truck Concrete Vibrator	Inspect all equipment prior to each use. Inspect all equipment prior to each use.	Only certified operator is allowed to operate heavy machinery.

Complete and Export AHA to Government

Once the Hazard Analysis is complete, mark it accordingly and export the contract to RMS. Once this is done, your Hazard Analysis will be in a View only mode. The next step is for the Government to review the AHA and either accept it or return it for further action.

The screenshot shows the QCS RMS Training Contract software interface. The window title is "Contract ID - L1001373 Contract No. - W912PP-07-C-0010 NA". The menu bar includes "File", "Options", and "Help". The main menu has "Close Contract", "Administration", "QC", "Submittals", "Import / Export", "Contract Reports", and "Exit QCS". The "QC - Hazard Analysis" section is active, showing a list of features of work with columns for "Number of Principal Steps", "Number of Hazards", and "Status".

Feature of Work	Number of Principal Steps	Number of Hazards	Status
▶ ACCORDIAN PARTITIONS	11	14	Not Completed
ACOUSTICAL TREATMENT, CEILINGS	8	15	Gov't Accepted
ADMINISTRATION & MOBILIZATION	22	47	Gov't Accepted
ARCH FURNISHINGS, INT/EXT	9	28	Gov't Accepted
ASPHALT PAVING	6	8	Gov't Accepted
BLEACHERS	11	14	Gov't Accepted
BUILDERS HARDWARE	7	27	Gov't Accepted
BUILDING INSULATION-RIGID/BATT	15	65	Gov't Accepted
CARPENTRY - ROUGH	20	41	Gov't Accepted
CASEWORK	8	11	Gov't Accepted
CAULKING & SEALANTS	8	12	Gov't Accepted
CONCRETE, CAST-IN-PLACE	20	48	Gov't Accepted
Cleaning and grubbing	6	21	Gov't Accepted
DEMOLITION	6	21	Gov't Accepted
DODRS - HOLLOW METAL & FRAMES	15	66	Gov't Accepted
DRYWALL	15	65	Gov't Accepted
Drilled Foundation Caissons	4	8	Gov't Accepted
EARTHWORK - AGG BASE COURSE	6	21	Gov't Accepted
EARTHWORK - BORROW AND FILL	6	21	Gov't Accepted
ELECTRICAL, INTERIOR - FINISH	16	30	Gov't Accepted
ELECTRICAL, INTERIOR - ROUGH	16	30	Gov't Accepted
ELECTRICAL, LIGHTNING PROTECTN	16	30	Gov't Accepted
ELECTRICAL, UNDERGROUND	16	30	Gov't Accepted
ELEVATED STEEL WATER TANK	35	34	Gov't Accepted
ELEVATOR SYSTEM	44	172	Gov't Accepted

QC Requirements

QC Requirements include four (4) separate items for control and tracking. Each of the items is located under a separate Tab, as can be seen below. Each of these will be discussed in detail.

1. QC Tests
2. User Schools
3. Installed Property
4. Transfer Property

QC - QC Requirements

QC Tests | User Schools | Installed Property | Transfer Property

Section	QC Test	Location	Description
02300	CT-00354	Site Elect	Utility Line For Electrical Conduit on Bldg Pad 25' Northwest
02300	CT-00355	8wL Sta0+30	6" Water Line Station 0+30 Lateral to Dormitory 2" B.F.G.
02300	CT-00357	Site Elect	Underground For Bus Terminal F.G. 100.2 Pass Borrow
02300	CT-00361	10wL Sta0+5	10" Water Line Station 0 + 5 6" B.F.G. 96.1 Pass
02300	CT-00362	10wL Sta0+10	10" Water Line Station 0 + 10 3" B.F.G. 101.4 Pass
02300	CT-00363	10wL Sta0+5	10" Water Line Station 0 + 5 3" B.F.G. 96.0 Pass
02300	CT-00365	10wL Sta0+10	10" Water Line Station 0 + 10 4" B.F.G. 98.3 Pass Borrow
02300	CT-00366	10wL Sta0+5	10" Water Line Station 0 + 5 4" B.F.G. 97.1 Pass
02300	CT-00367	10wL Sta0+10	10" Water Line Station 0 + 10 3" B.F.G. 95.1 Pass
02300	CT-00368	10wL Sta0+10	10" Water Line Station 0 + 10 2" B.F.G. 95.4 Pass
02300	CT-00369	10wL Sta0+5	10" Water Line Station 0 + 5 3" B.F.G. 97.9 Pass Red B
02300	CT-00371	Site Lights	Light Poles D10 to D15 F.G. 95.8 Pass Borrow-Grey in
02300	CT-00372	Site Lights	Light Pole D10 F.G. 96.2 Pass Borrow-Grey in Color
02300	CT-00373	Site Light	Light Poles D8 to D10 F.G. 94.2 Fail Borrow-Grey in
02300	CT-00374	Site Light	Light Poles D9 to D8 F.G. 95.9 Pass Borrow-Grey in
02300	CT-00375	Site Light	Retest of CT-00373
02300	CT-00377	8wLSta15+75	8" Water Line at Station 15 + 75 First Lift 95.1 Pass Red B
02300	CT-00378	8wLSta15+95	8" Water Line at Station 15 + 95 Second Lift 99.5 Pass

Description Section: 02300 Paragraph: 3.11.1.4

362 10/3/2007 Nuke Utility Line For Electrical Conduit on Bldg Pad 25' Northwest 3" B.F.G. 96.0 Pass Red Borrow

Quality Control Tests

Quality Control Tests are defined in the Contract and are based on engineering and construction judgment as to the type and number of tests to be accomplished. After the award of the contract, the Contractor will further define the method and quantity of tests based on the material quantity and/or equipment options he has chosen to incorporate into the work. These tests are given the prefix "CT" (Control Test) and take the form of "CT-####" for numbering and tracking purposes contained in various reports. The Contractor is responsible for performing the tests and reporting the results of the tests to the Government. If a test fails, the Contractor must correct the problem and report that it is corrected. This reporting is accomplished within the Contractor's Daily Quality Control Report (QCR).

Quality Control System

With the TAB “QC Tests” selected, push the **Add** button to add QC tests. The QCS program will select the next sequential number. This number cannot be changed.

QC Tests Window

Use the lookup to select the related specification section for this test and follow that by adding the referenced paragraph number.

Indicate who will perform the Test and where it is located. Reports can produce a listing by *Location* or *Responsibility*.

Indicate the number of days before or after the activity begins that the test is required to be performed. (A “+” will occur AFTER activity start

And a “-“will occur PRIOR to the activity starting.)

The screenshot shows the 'QC Tests' window with the following data:

QC Test No.	CT-00018	Performed by	Const & Eng Lab
Section	03 31 00.00 19	Location	Child Dev Cn
Paragraph	312.11	Required for Activity	AOC146
			CONCRETE, FOUNDATION
Requirement Lag/Lead	0 (days)	Activity Start Date	12/01/2008A
		Requirement Needed by	12/01/2008

Description:
Concrete for CMU footings was tested for Compressive Strength @ the age of seven days period with slump of 4.0 inches. Date sampled was 12/2/2008. Performed by Construction & Engineering Lab with a report No. 1015. Specimen No. 1-A was tested with a maximum load of 57,930 lbs., compressive strength was 4,610 psi. Specimen No. 1-B tested with a maximum load of 56,125 lbs., compressive strength was 4,470 psi.

The *Required for Activity* entry is critical and is tracked to completion in many areas of QCS. Use the lookup to select the *Pay Activity* for this test.

Enter an appropriate description of the test and repeat the process for all required QC Tests to be performed. The number and type of test should match the Contractor’s Quality Control Plan.

User Schools

User Schools represents the *Training* or *Instruction* the contractor must provide the Customer on equipment or systems provided and installed as part of the contract. They have the prefix “**US**” and take the form of “**US-####**” for numbering and tracking purposes. As each session of the *Training* or *Instruction* is completed, it is reported on the Contractor’s Daily QCR. A Government representative may ensure that it was accomplished appropriately and if not, have it repeated to comply with the contract documents. The Customer (User) will often neglect attending the training and then complain that none was offered. Our records can protect the Corps of Engineers and the contractor from that situation.

The screenshot displays the QCS RMS Training Contract software interface. The main window shows a table of User Schools with columns for Section, User School, Location, and Description. A red arrow points from the 'Add' button in the top toolbar to the 'Add' button in the table's context menu. A secondary window titled 'QC User Schools' is open, showing a form for adding a new User School. The form includes fields for User School (US-00001), Section (33 30 00), Paragraph (4.5), Location (Mech Room), Required for Activity (A0N130), Activity Start Date (02/26/2009A), Requirement Lag/Lead (90 days), and Requirement Needed by (05/27/2009). A description field contains the text 'Provide 24 hours of Training on Pumping Station and Turning Vanes'.

Pressing the **Add** button produces the next sequential number for the **User School**.

Use the lookup to select to appropriate specification section, enter the paragraph number and use the lookup to link the **User School** to the Contractor Pay Activity.

The **Description** of the required schooling or training should be complete and accurate.

Installed Property

Installed Property are those items of equipment that are incorporated into the design of a facility. These are typically acknowledged as those pieces of equipment that may require maintenance, have serial numbers and can be accounted for individually. It is the Designer that specifies the equipment, based upon Design guidance provided by the Government Design or Using Agency. These items are given the prefix "IP" and take the form of "IP-####" for numbering and tracking purposes. As the **Installed Property** arrives at the jobsite, it is compared to the approved Shop Drawings for conformance to the contract; the serial number and other information is recorded and reported within the Daily QCR.

The screenshot shows the QCS software interface with the 'QC Installed Property' dialog box open. The dialog box contains the following fields and sections:

- Installed No:** IP-00001
- Location:** Elec Room
- Section:** 33 70 02.00 10
- Paragraph:** 3.3.5
- Performed by:** Sparks
- Required for Activity:** A0N1501 (TRANSFORMER & SWITCHGEAR)
- Activity Start Date:** 05/22/2009A
- Requirement Lag/Lead:** 0 (days)
- Requirement Needed by:** 05/22/2009
- Description, ID, Manufacturer, Model, Serial Number:** Switchboard S-1, Siemens, Model 3RE, S/N SEI-09-9002A
- Capacity, BTU, CFM, KVA, HP, Volts, PH, AMPS, etc.:** 480/277-volt, 1200 amp, 3-phase

Pressing the **ADD** button will present the next sequential number for the **Installed Property**.

Use the lookup to select to appropriate specification section, enter the paragraph number and use the lookup to link the **Installed Property** to the appropriate contractor Pay Activity (**A0N1501** in this example).

Indicate the number of days before or after the activity begins that the installed property is required to be performed. (A “+” will occur **AFTER** activity start and a “-” will occur **PRIOR** to the activity starting.)

Enter the Description, ID, Capacity, etc., for the item in the applicable fields. The preliminary listing will typically be as shown on the contract drawings. However, as submittals are provided for the property, these fields should be updated. After the property is received the actual serial number and confirmation of other data should be entered to accurately reflect the particulars of the property.

Transfer Property

Transfer Property is that property that “*changes hands*” during the construction process. Examples would include Government Furnished Property (GFP) that the contractor would install or consume during the contract performance. It would also include spare parts and supplies that are furnished by the contractor as part of the contract requirements. It could also include equipment or materials that were deleted as part of a contract modification and that were beneficial for the Government to retain rather than get some minimum token credit for the deletion. These items are given the prefix “**TP**” and take the form of “**TP-####**” for numbering and tracking purposes. As the contractor receives or provides the **Transfer Property** it is reported within his Daily QCR. The Government should also track the property on *DD Form 1149* and include it with the contract *Closeout Documents*.

Pressing the **Add** button will present the next sequential number for the **Transfer Property**.

The screenshot displays the 'QC Transfer Property' form within the QCS RMS Training Contract application. The form is titled 'QC - QC Requirements' and 'QC Transfer Property'. It features a menu bar with 'File', 'Options', and 'Help'. Below the menu bar are several tabs: 'Close Contract', 'Administration', 'QC', 'Submittals', 'Import / Export', 'Contract Reports', and 'Exit QCS'. The main window is divided into a left sidebar with a tree view of navigation options (e.g., 'QC Daily Reports', 'QC Summary', 'Features of Work', '3 Phase Inspections', 'Hazard Analysis', 'QC Requirements', 'Equipment Checks', 'Dredging Equipment', 'Exposure Hours', 'Activity Schedule', 'Feature Schedule', 'Warranty Items') and a main content area. The main content area contains a table with columns for 'Section' and 'Transfer Property'. A red arrow points from the 'Add' button in the table to the 'Transfer No' field. Another red arrow points from the 'From' field to the 'To' field. A yellow callout box with black text is positioned over the 'From' and 'To' fields, containing the text: 'From: WHO will transfer the property.' and 'To: WHO will receive the property.'

From: WHO will transfer the property.
To: WHO will receive the property.

Quality Control System

Use the lookup to select the specification section, enter the paragraph number and use the lookup to link the **Transfer Property** to the Contractor Pay Activity.

Indicate the number of days before or after the activity begins that the property is required to be transferred. (A “+” will occur **AFTER** activity start and a “-“will occur **PRIOR** to the activity starting.)

The remaining cells are self-explanatory. The right side of the screen, relating to the Transfer of the Property, will be complete during preparation of the QC Daily Report when the actual transfer takes place.

Reports for Planning

Listing reports of each type of QC Requirements discussed is available. In addition,

The screenshot displays the RMS Training Contract software interface. The main window shows a navigation menu on the left with categories: Administrative Reports, Financial Reports, QA/QC Reports, Submittal Reports, Schedule Reports, and Closeout Reports. The QA/QC Reports category is expanded, showing a tree view with sub-items: QA Reports, QA Daily Report, QA Narratives, Deficiency Items Issued by QA, QC Reports, QC Daily Report, QC Narratives, and Deficiency Items Issued by QC. A red arrow points to the QC Reports sub-item.

Overlaid on the main window is a smaller window titled "Three Phase Schedule". This window has a "Preview" and "Print" button at the top left and a "Close" button at the top right. The main content area of this window features a printer icon on the left and the text "QC Requirements List" in red. Below this, there is a "Range" label followed by a "QC Tests" button and three radio button options: "User Schools", "Installed Property", and "Transfer Property".

Equipment Checks

All equipment that requires a mechanic's inspection should be entered here – this does not typically include 'hand tools'.

The entries will then be available to report their use and standby time on the Contractor Daily Quality Control Report (QCR).

QC - Equipment Checks

Close Contract Administration QC Submittals Import / Export Contract Reports Exit QCS

QC Daily Reports
 QC Summary
 Features of Work
 3 Phase Inspections
 Hazard Analysis
 QC Requirements
 Equipment Checks
 Exposure Hours
 Activity Schedule
 Feature Schedule
 Warranty Items

Equipment ID	Make/Model	Serial No	Description	Safe	Last Inspected
00000001	Gradall 544D-10	0355176	Nan Gradall #6	Yes	10/09/2009
00000002	New Holland B95 B	031059592	Nan Backhoe B95 #9	Yes	10/09/2009
00000018	Komatsu PC138 US	20793	Nan Excavator PC138	Yes	10/09/2009
00000021	Komatsu PC20MR-	11322	Nan Min Excavator PC20	Yes	10/01/2009
00000022	Bobcat 75B	515817920	Nan Bobcat 75B	Yes	10/09/2009
00000026	Loader				

Equipment Checks

Equipment ID: 00000001 Serial No: 0355176

Make and Model: Gradall 544D-10

Description: Nan Gradall #6

Initial Inspection: 08/05/2008 Last Day On Site: []

Last Reinspection: 10/09/2009 Equipment In Safe Condition?

Hours authorized between inspections: 0

Hours run since last inspection: 0

Remaining hours authorized: 0

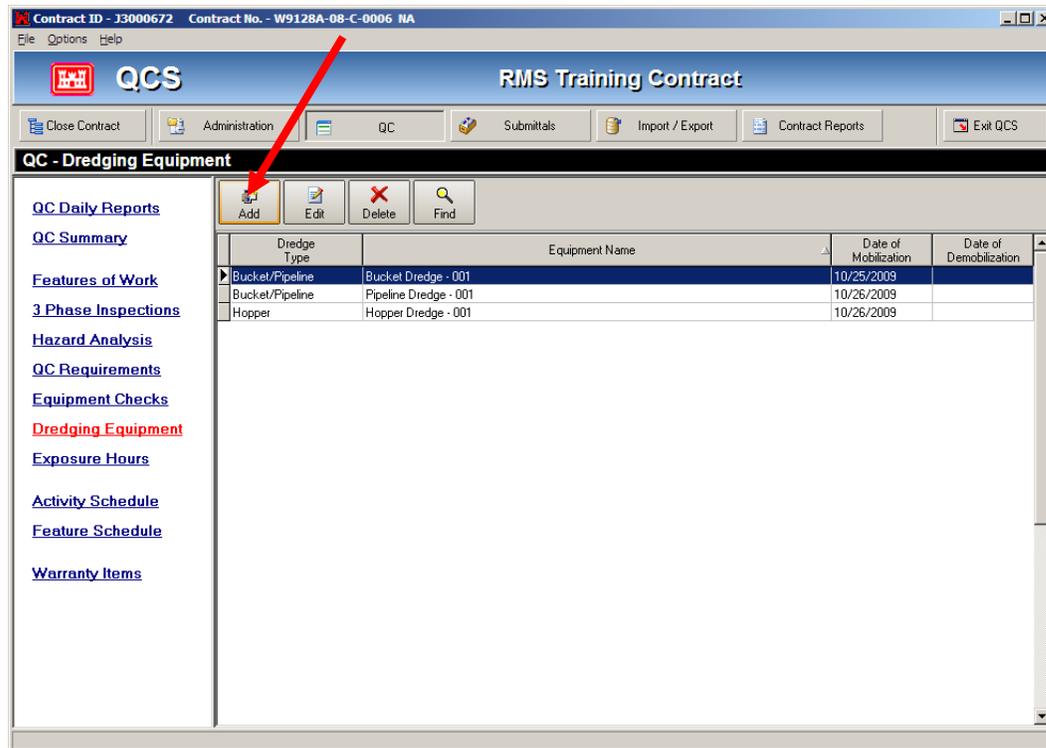
Notes

Edit

Dredging Equipment

If you have a dredging contract, the dredging equipment data must be entered to be able to complete a Daily Dredging Report in QCS.

You will add information for a bucket/pipeline dredge, or a hopper dredge. You make the selection after you choose the **Add** button. You can have as many Dredges, of either type, as you need. This will enable you to make a separate Dredge Report for each dredge, each day.



Bucket / Pipeline Dredge Entry Screen

The "Editing" dialog box contains the following information:

Bucket/Pipeline Information

Equipment Name and Type:

Size

Pipeline: Dipper/Bucket:

Horsepower

Pump: Suction Pipe Jet: Cutter/Bucket:

Mobilization Dates

Mobilized: ...

Demobilized: ...

Labor

Shifts Per Day:

Days Per Week:

Close

Hopper Dredge Entry Screen

Editing Close

Hopper Information

Equipment Name and Type:

Capacity

Capacity:	Average Volume of Bin Water:	Average Unfilled Capacity:
<input type="text" value="125"/>	<input type="text" value="500"/>	<input type="text" value="150"/>

Mobilization Dates

Mobilized: ...

Demobilized: ...

Labor

Shifts Per Day: ▼

Days Per Week: ▼

Exposure Hours

The Safety and Health Requirements Manual, EM 385-1-1, at section 01 (Program Management), Paragraph 01.D (Accident Reporting and Recording), sub-paragraph 01.D.05, requires the Prime Contractor to provide a monthly record of all exposure and accident experience of the Prime Contractor and all Subcontractors relative to the work. The information is captured here and will produce the required exposure report to be provided to the Government.

You are able to **Copy** the prior month to save time. You would then just change the hours for each contractor as appropriate for the current month.

The screenshot displays the QCS (Quality Control System) interface for the RMS Training Contract. The main window shows a summary table of exposure hours by month from April 2008 to October 2009. A secondary window, titled "Safety Exposure Hours for October, 2009", provides a detailed breakdown of exposure hours for various contractors.

Summary Table (from main window):

Month	Exposure Hours Total To Date	Exposure Hours For the Year	Exposure Hours For the Month	Status
Apr 08	0	0	0	Gov't Accepted
May 08	0	0	0	Gov't Accepted
Jun 08	84	84	84	Gov't Accepted
Jul 08	252	252	168	Gov't Accepted
Aug 08	742	742	490	Gov't Accepted
Sep 08	1,622	1,622	880	Gov't Accepted
Oct 08	3,112	3,112	1,490	Gov't Accepted
Nov 08	4,600			
Dec 08	7,110			
Jan 09	10,670			
Feb 09	14,790			
Mar 09	18,210			
Apr 09	21,430			
May 09	25,160			
Jun 09	30,910			
Jul 09	38,190			
Aug 09	43,230			
Sep 09	48,700			
Oct 09	48,700			

Detailed Contractor Report (from "Safety Exposure Hours for October, 2009" window):

Contractor Code	Contractor Full Name	Prime / Subcontractor	Exposure Hours Total to Date	Exposure Hours For the Year	Exposure Hours For the Month
AEC	American Electric Co., LLC	Subcontractor	1,290	1,290	1,188
CBT	CB Tech Services Inc	Subcontractor	0	0	0
CSC	Commercial Sheetmetal	Subcontractor	0	0	0
MECH	Commercial Sheetmetal Co., Inc.	Subcontractor	1,516	1,516	320
CDE	Corps of Engineers	Subcontractor	0	0	0
DFI	David's Fencing Inc.	Subcontractor	128	128	128
DEP	Douglas Eng'ng. Pac	Subcontractor	0	0	0
PIPE	Economy Plumbing & Sheet Metal, Inc.	Subcontractor	316	278	0
FIRE	Fire Guys	Subcontractor	126	126	126
GP	Grace Pacific Corporation	Subcontractor	213	213	0
HEC	Hoomana Electric Co	Subcontractor	1,111	1,111	0
IPR	IPR, Inc.	Subcontractor	267	267	0
Totals:			51,710	44,591	3,002

At the bottom of the detailed report window, there is a form for contractor information:

- Name of person submitting record for contractor:
- Government Remarks to Contractor:
- Completed - Ready to send to the Government

A red arrow points from the text below to the "Completed - Ready to send to the Government" checkbox.

When you mark the entry as **complete**, it can then be exported to the Government. The Government may provide response comments that would be sent back to you on the next exchange of data.

Monthly Record of Work-Related Injuries/Illnesses & Exposure

USACE PRIME CONTRACTOR Monthly Record of Work-Related Injuries/Illnesses & Exposure										US Army Corps of Engineers Month <u>August, 2007</u> Page 1 of 2											
In accordance with the provisions of EM 385-1-1, Section 01 Program Management, Paragraph 01.D Accident Reporting and Recording, sub-paragraphs 01.D.05, you (the Prime Contractor) shall provide a monthly record of all exposure and accident experience incidental to the work (this includes exposure and accident experience of the Prime Contractor and its sub-contractor(s)). As a minimum, these records shall include exposure work hours and a record of occupational injuries and illnesses that include the data elements listed below. Definitional criteria for each data element is found in 29 CFR Part 1904. If the maintenance of OSHA 300 Logs are required by OSHA, most of this information can be obtained from those logs. If data on log provided below is revised after it is submitted to USACE, Contractor shall provide a revised report to the GDA. You must complete the USACE ENG Form 3394, Report of Accident Investigation Report for all recordable accidents. If you're not sure whether a case is recordable, call your local Safety and Occupational Health Office for help.										USACE Command <u>USACE, Portland District</u>		Contractor Name <u>Fabrication Products, Inc.</u>		Contract Number <u>W9127N-05-C-0025</u>		Project Title <u>Bonneville FGE & VBS Modifications</u>		City & State <u>Vancouver, Washington 98661</u>		USACE Office <u>Portland Resident Office</u>	
Contractor	Prime/Subcontractor	Age	Gender	Date Employee began work	Where the event occurred	Describe the injury or illness	Death	Days Away From Work	Job Transfer or restriction	Other recordable cases	Number of Days		Injury	Skin Disorder	Respiratory Condition	Poisoning	Hearing Loss	All other illnesses			
Labor Classification				Date of Injury or onset of illness							On Job transfer or restriction (days)	Away from work (days)									
FP Erectors, LLC LABORER, GROUP 1	S	32	M	08/09/2007 08/28/2007	Main Floor, Area 3	The fork lift operator was not wearing a seat belt when he fell out of the cab and was run over. The Doctor said he needs to stay home about three (3) days. However, if we can do without him that long, we can do without him forever. What a dummy.		X				3		X							
Totals:										0	1	0	0	0	3	1	0	0	0	0	
Exposure Hours										Certification of Record											
Month: <u>0</u> hours Year To Date: <u>0</u> hours										Name of Person Submitting Record: _____ Signature: _____ Date: _____											

Warranty Items

Warranty items are those actions to be taken by the Contractor after the contract is complete. This period of time is typically specified to be a twelve month period beginning from acceptance of the facility, or any part of the facility occupied by the Government (Beneficial Occupancy).

Warranty items are entered into the Government System (RMS) as they are reported by the facility occupant or are discovered during various Post-Completion Inspections by the Government. The comments/actions are then exported to the Contractor as a normal export.

The screenshot displays the QCS (Quality Control System) interface for the RMS Training Contract. The main window shows a table of Warranty Items with the following data:

Item No.	Description	Scheduled Correction	Actual Correction
wl-00001	Pump P-2		

An expanded 'Warranty Item' dialog box is shown, providing detailed information for item 'wl-00001':

- Warranty Item #:** wl-00001
- Location:** Boiler Room
- Description:** Pump P-2
- Dates:**
 - Date Reported by Owner: 11/02/2009
 - Date Contractor Notified: [Empty]
 - Date Corrected - Scheduled: 11/03/2009
 - Date Corrected - Actual: 11/03/2009
- Government Remarks:** Hot water circulating Pump, P-2, is making loud noises. It sounds as if the bearings are going out.
- Contractor Remarks:** Investigation of pump noise confirmed the bearings are going out. However, it was also observed that the motor bearings were not greased in accordance with the O&M Manual - Page 13. The bearings

The contractor will be tasked to investigate the warranty item and correct it if required. QCS is used to document the process and to track the item to completion. The Government will also track the completion and enter comments into RMS as to the effectiveness of the Contractor response to warranty calls.

Chapter 3 – CQC – Daily Report

What you will learn from this Chapter:



Quality Control Report and QCS

- **QC Report Date**
- **Weather**
- **QC Narratives**
- **Deficiency Items Issued by QC**
- **Deficiency Items Issued by QA**
- **QC Tests**
- **User Schools**
- **Installed Property**
- **Transfer Property**
- **Prep/Initial Inspections**
- **Activities Started/Finished**
- **Contractor's on Site**
- **Labor / Equipment Hours**
- **Accident Reporting**

Contractor Quality Control – Daily Report

Overview



This chapter furnishes information on the **Contractor Quality Control Report** and provides instructions for utilizing the **Quality Control Report** modules of the QCS program.

As a contract progresses, daily reports are made by both the contractor and the government. These reports include activities started and completed, inspections made, QC requirements met, problems encountered and a variety of other information. The Daily QC Report provides a place to enter all that data.

Obtaining quality construction is a combined responsibility of the construction contractor and the government. Their mutual goal must be a quality product conforming to the contract requirements. A cooperative and professional working relationship should be established in order to realize this common goal. The contract documents establish the quality required in a project to be constructed.



The Government requires the Contractor to create a Contractor Quality Control Plan, tailored for their contract, to outline how Quality Control will be managed on this particular contract. While Quality Assurance (QA) in RMS provides the vehicle by which the Government can create a daily report and monitor the Contractor's actions and records, it is Quality Control (QC) within QCS that provides the Contractor a means to create daily reports and to maintain contract records.

Much of the data entered by the Contractor is interdependent with other options throughout RMS. Special attention should be placed on **Prep/Initial Dates**, **Activity Start/Finish**, **User Schools**, **QC Testing**, **Transfer Property**, **Installed Property**, **Punch List Items** and **Contractor's On-Site** options as they are linked to other vital functions of the RMS program.

Daily Quality Control Report

Selecting the **QC Daily Reports** lets you enter data for that day only. The date is automatically entered on each screen and you will see only outstanding or incomplete tests, inspections, activities, etc., for that particular date. This makes it quite easy to find a particular item. Selecting the **QC Summary** option will place you in a **Read Only** mode, but you will be able to review all items for all dates entered.

Military Report

Status columns have been added to enable you to view the status of each QC Report. The columns indicate whether a report is complete, not completed, not received, sent to the Government, returned from the Government, etc.

Contract ID - J3000672 Contract No. - W9128A-08-C-0006 NA

QCS RMS Training Contract

QC - QC Daily Reports

QC Daily Reports

QC Summary

Features of Work

3 Phase Inspections

Hazard Analysis

QC Requirements

Equipment Checks

Dredging Equipment

Exposure Hours

Activity Schedule

Feature Schedule

Warranty Items

Report Date	Weather	Status
10/13/2009 Tuesday	Weather Not Entered	Not Completed
10/12/2009 Monday	Non Work Day	Not Completed
10/09/2009 Friday	Weather Caused No Delay	Not Completed
10/08/2009 Thursday	Weather Caused No Delay	Not Completed
10/07/2009 Wednesday	Weather Caused No Delay	Not Completed
10/06/2009 Tuesday	Weather Caused No Delay	Not Completed
10/05/2009 Monday	Weather Caused No Delay	Not Completed
10/02/2009 Friday	Weather Caused No Delay	Not Completed
10/01/2009 Thursday	Weather Caused No Delay	Completed
09/30/2009 Wednesday	Weather Caused No Delay	Completed
09/29/2009 Tuesday	Weather Caused No Delay	Completed
09/28/2009 Monday	Weather Caused No Delay	Completed
09/25/2009 Friday	Weather Caused No Delay	Completed - Received by the Gov't
09/24/2009 Thursday	Weather Caused No Delay	Completed - Received by the Gov't
09/23/2009 Wednesday	Weather Caused No Delay	Completed - Received by the Gov't
09/22/2009 Tuesday	Weather Caused No Delay	Completed - Received by the Gov't
09/21/2009 Monday	Weather Caused No Delay	Completed - Received by the Gov't
09/18/2009 Friday	Weather Caused No Delay	Completed - Received by the Gov't
09/17/2009 Thursday	Weather Caused No Delay	Completed - Received by the Gov't
09/16/2009 Wednesday	Weather Caused No Delay	Completed - Received by the Gov't
09/15/2009 Tuesday	Weather Caused No Delay	Completed - Received by the Gov't
09/14/2009 Monday	Weather Caused No Delay	Completed - Received by the Gov't
09/11/2009 Friday	Weather Caused No Delay	Completed - Received by the Gov't
09/10/2009 Thursday	Weather Caused No Delay	Completed - Received by the Gov't
09/09/2009 Wednesday	Weather Caused No Delay	Completed - Received by the Gov't

Civil Report

Select **Quality Control**. The dates shown reflect the **QC Daily Report** date, and represent each report that has been entered. You would push the **Add** button to enter a new report, or the **Edit** button to select an existing report. This screen is for the **Civil Report** as indicated.

Contract ID - J3000873 Contract No. - W9128A-08-C-0008 NA

QCS RMS Training 2

QC - QC Daily Reports

QC Daily Reports

QC Summary

Features of Work

3 Phase Inspections

Hazard Analysis

QC Requirements

Equipment Checks

Dredging Equipment

Exposure Hours

Activity Schedule

Feature Schedule

Warranty Items

Civil Reports

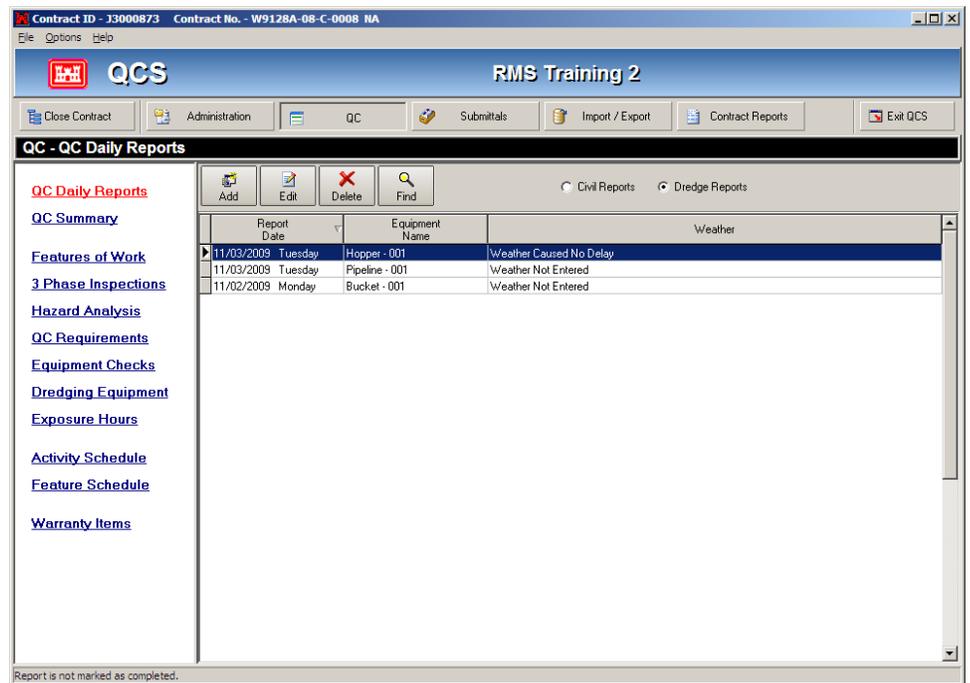
Dredge Reports

Report Date	Weather	Status
10/15/2009 Thursday	Weather Not Entered	Not Completed
10/14/2009 Wednesday	Weather Not Entered	Not Completed
10/13/2009 Tuesday	Weather Caused No Delay	Completed - Received by the Gov't
10/12/2009 Monday	Weather Caused No Delay	Completed - Received by the Gov't
10/09/2009 Friday	Weather Caused No Delay	Completed - Received by the Gov't
10/08/2009 Thursday	Weather Caused No Delay	Completed - Received by the Gov't
10/07/2009 Wednesday	Weather Caused No Delay	Completed - Received by the Gov't
10/06/2009 Tuesday	Weather Caused No Delay	Completed - Received by the Gov't
10/05/2009 Monday	Weather Caused No Delay	Completed - Received by the Gov't
10/02/2009 Friday	Weather Caused No Delay	Completed - Received by the Gov't
10/01/2009 Thursday	Weather Caused No Delay	Completed - Received by the Gov't
09/30/2009 Wednesday	Weather Caused No Delay	Completed - Received by the Gov't
09/29/2009 Tuesday	Weather Caused No Delay	Completed - Received by the Gov't
09/28/2009 Monday	Weather Caused No Delay	Completed - Received by the Gov't
09/25/2009 Friday	Weather Caused No Delay	Completed - Received by the Gov't
09/24/2009 Thursday	Weather Caused No Delay	Completed - Received by the Gov't
09/23/2009 Wednesday	Weather Caused No Delay	Completed - Received by the Gov't
09/22/2009 Tuesday	Weather Caused No Delay	Completed - Received by the Gov't
09/21/2009 Monday	Weather Caused No Delay	Completed - Received by the Gov't
09/18/2009 Friday	Weather Caused No Delay	Completed - Received by the Gov't
09/17/2009 Thursday	Weather Caused No Delay	Completed - Received by the Gov't
09/16/2009 Wednesday	Weather Caused No Delay	Completed - Received by the Gov't
09/15/2009 Tuesday	Weather Caused No Delay	Completed - Received by the Gov't
09/14/2009 Monday	Weather Caused No Delay	Completed - Received by the Gov't
09/11/2009 Friday	Weather Caused No Delay	Completed - Received by the Gov't

There are no reports.

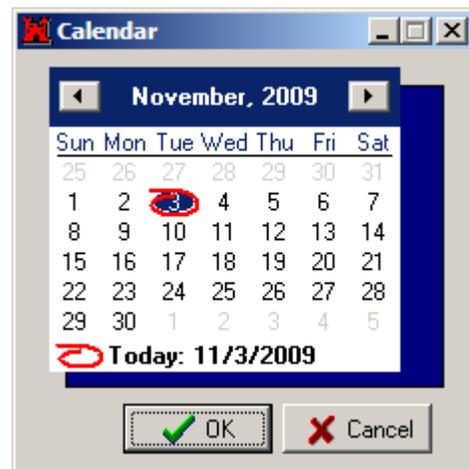
Dredge Report

This next screens show the QC Daily Reports entered for the dredges in use.

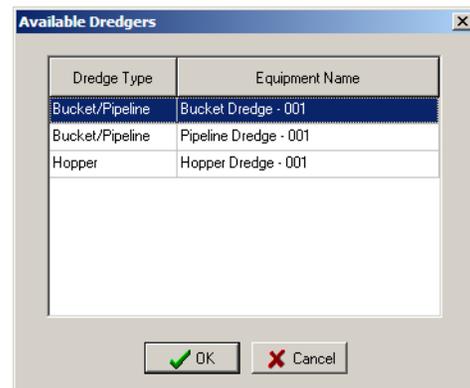


QC Report Date

Push the **Add** button and a popup calendar will appear. You can then select a date for the report you wish to create.

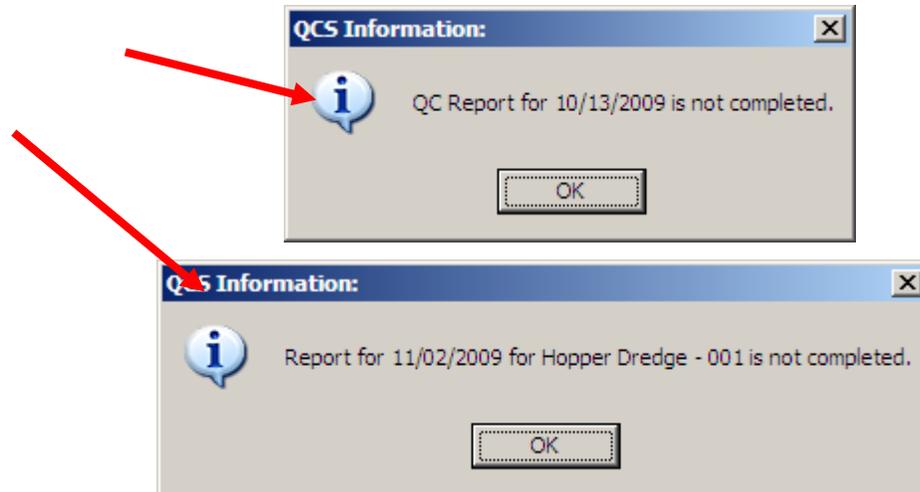


If you are doing a **Dredge Report**, and you push the **OK** button, you will need to select the type of Dredge report you wish to work on.



Quality Control System

If you have not checked **Report Completed** on a prior report, you will first see one of these popup screens.



Entering Weather Data

Highlight the first selection, **Weather**, to begin preparing the **QC Daily Report (QCR)**. The screen will change and provide the fields for the weather information.

The image displays two screenshots of the 'MILITARY QC Report' software interface. The top screenshot shows the main 'QC Report' window with a sidebar menu. A red arrow points to the 'Weather' option, which is highlighted. The bottom screenshot shows the 'QC Report - Weather' window, which is a form for entering weather data. The form includes a dropdown menu for 'Weather' (set to 'Weather Caused No Delay'), and input fields for 'Temperature' (Minimum: 48 °F, Maximum: 62 °F), '24 Hour Precipitation' (0.5 Inches), and 'Surface Wind' (15 MPH). The form also displays the report number (538) and date (10/13/2009 -- Tuesday).

1. The **Report Number** and **Date** are automatically reflected based upon the date just selected. The report number reflects the day of the contract from the **Construction Start** date of the contract.

Quality Control System

- Use the mouse to access the Weather *drop-down* menu and select the appropriate description for the weather.

The screenshot shows a web browser window titled "MILITARY QC Report Number 538 10/13/2009 -- Tuesday". The main content area is titled "INSPECTORS QUALITY CONTROL REPORT (QCR) DAILY LOG OF CONSTRUCTION" and "QC Report Number 538 10/13/2009 - Tuesday". A red arrow points to a drop-down menu for "Weather" which is currently set to "Weather Caused No Delay". The menu options are: "Weather Caused No Delay", "Weather Caused Critical Delay", "Weather Caused Non-Critical Delay", "Previous Weather - Critical Delay", "Previous Weather - Non-Critical Delay", "Non Work Day", and "Other - Explain". Other fields include "Temperature", "24 Hour Precipitation", and "Surface Wind" (15 MPH).

- Record the minimum and maximum temperatures for the shift worked and the amount, if any, of precipitation and wind that occurred.

Note: Weather delays occur when more than 50% of the workday (24 hour period) is unsuitable for the work in progress.

In addition, severe weather, such as rain, may impact the days following the actual weather occurrence.

The screenshot shows the same web browser window as above, but with the "Weather" field set to "Weather Caused No Delay". The "Temperature" field now shows "Minimum 48 °F" and "Maximum 62 °F". The "24 Hour Precipitation" field shows "0.5 Inches" and the "Surface Wind" field shows "15 MPH".

Notice that this screen reflects US units. The Government system, RMS, affords the option of either US Units or Metric Units.

Possible choices for weather:

- Weather caused No Delay
- Weather caused Critical Delay
- Weather caused Non-critical Delay
- Previous Weather - Critical Delay
- Previous Weather - Non-critical Delay
- Non-Work Day
- Other – Explain

The weather data on a **Dredge Report** is very similar.

Report Date	QC Narrative Title	Comments
10/02/2009	Safety: (Inspections made, Deficiencies noted):	1. Pump truck not back up alarm
10/02/2009	WORK PERFORMED TODAY: (Indicate location: Activity Code ADD 320 - Install Gypsur	
10/02/2009	DID ANYTHING DEVELOP THAT MAY LEAD TO:	None
10/02/2009	TESTS PERFORMED AND RESULTS OF TEST:	None
10/02/2009	TYPE AND RESULTS OF INSPECTION: (Prep...)	Conducted follow up inspection on the
10/02/2009	CONTRACTOR/SUBS & AREA OF RESPONSIBI	Nan Inc.
10/02/2009	Safety: Corrective Action taken:	1. Mechanics informed and will fix over
10/02/2009	Activities in Progress:	Activity Code ADD 320 - Install Gypsur
10/02/2009	Did anything develop that may lead to a Change:	None
10/02/2009	Were there any Delays in Work Progress today?	None
10/02/2009	General Comments:	Nan Inc Admin personnel.
10/02/2009	Verbal Instructions given by Government:	None

When completed entering **Weather** data, highlight **QC Narratives** to begin preparing the remainder of the QC Report.

QC Narratives

The **QC Narrative** provides the Contractor with a variety of topics in which to record the days' activities. When you add a narrative you have a choice to either enter them manually, or to copy from a previous day or even from a previous shift, if applicable. On selecting to enter manually, a **Lookup** provides you with several topics from which to choose. These topics are simply the *headings* that are printed on the report form for each narrative or group of narratives. If a Contractor desires an additional *heading*, other than those shown, the Government must first add the desired *heading* in the Government's main RMS program. If no headings are entered, you will see a message letting you know that such are not entered in the District Library.

A narrative is a paragraph, or Memo field for each individual narrative. QCS can accept an unlimited number of narratives for a particular day. The paragraphs may contain your observations and comments, such as: Verbal Instructions given by the Government, Activities in Progress, and so forth. The information is simple text and it may be spell checked and imported or exported to/from other Word Processing programs. The data cannot be directly sorted; compared or extracted to a database (you would use another software package for this.) Keep in mind that your report content should be a "*record of facts*" and you should avoid personal "*opinions*" whenever possible.

When completed with the weather, click on the **QC Narrative** selection on the left of the screen.

Your first choice from the popup menu will be to either add a narrative manually or to copy from a previous report day or Shift.

Selecting the **Add a Narrative Manually** provides this lookup of **Narrative Types** within the program. The type of narrative will vary greatly across the different Corps of Engineer Districts, but should be consistent for every contract within that District.

Place the cursor on the desired **Narrative Type** and push the **OK** button.

Or, double mouse-click the desired **Narrative Type**.



Enter comments relative to the selected **Narrative Type** here.

You can use a larger screen, use **Spell Check, Cut and Paste**, etc., by pushing the **Edit** button.

QC Narrative - 10/13/2009

Activities in Progress:

Narrative Dated: 10/13/2009

Status: QC Report not Completed

Edit

Activity Code AOL 9611 - Install Windows at Clerestory
 1. Continue caulking high clerestories windows at Atrium 1,2 & 3.
 Activity Code ADD 291 - Install Ceiling Frames & Grid
 1. Install acoustical ceiling frames & grid on the high ceiling of Clerestory at gathering area.
 Activity Code ADD 3201 - Gypsum Wallboard Taping & Sanding
 1. Continue tape walls and smoke high walls of Mechanical room.
 Activity Code ADD 410 - Casework
 1. Continue installing cabinets for Clerk room.
 1. Start installing corian countertops by cutting-out sink holes at Staff Lounge, Performing Arts room, Kitchen, Demonstration Kitchen.
 2. Fix/install Performing Arts countertop.
 Activity Code ADP 145 - Swing Seat and Pad
 1. Pour concrete on the swing seat pad extension.
 Activity Code ADN 131 - Install storm Drainage Mainline
 1. Exposed the existing manhole to construct a new storm drainage manhole.
 Activity Code ADD 213 - Wet Fire Extinguishing System
 1. Install pipe and conduit in kitchen hood, pull station and mount box.

Record 1 of 13

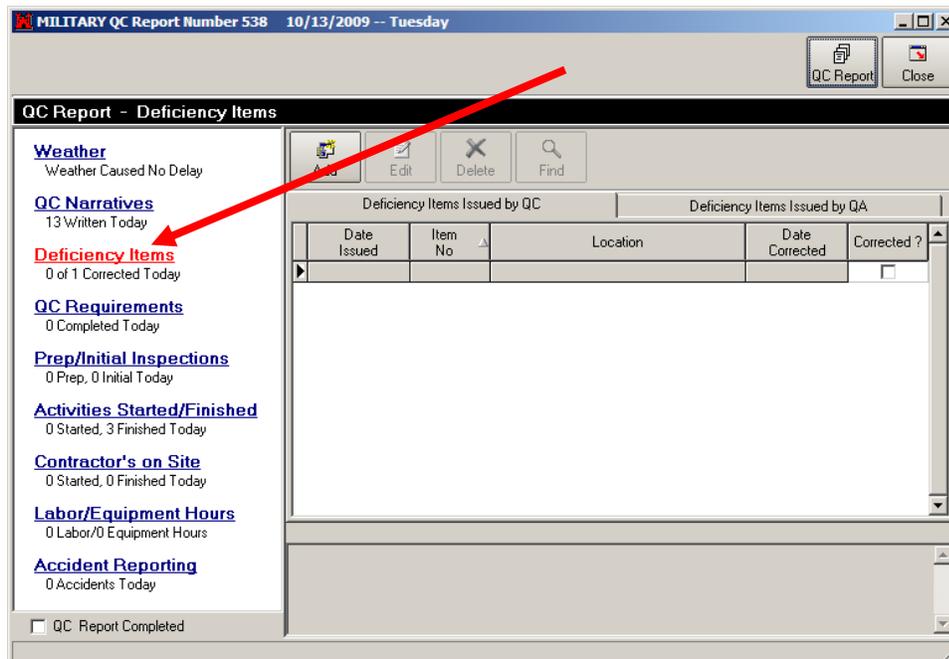
Push the **CLOSE** button in the upper right-hand corner of the screen. You may then enter additional narratives, or continue with other portions or sections of the *QC Daily Report*.



Note: If you choose to copy narratives from a previous day, a pop-up calendar will appear. You select the day and QCS will copy all the narratives for that particular day into the current report. You could then modify, delete or even add new narratives as required. Once you add a narrative manually, you will not be able to copy narratives from a previous day on that days report.

Deficiency Items (aka Deficiency Tracking System)

The **Deficiency Items** module gives the Contractor a means to communicate to the Government comments resulting from an inspection, site visit, or various other reviews. This communication is a record keeping system, also referred to as a Deficiency Tracking System. By using the **Deficiency Items** function in QCS, the Contractor can keep track of items that may otherwise be overlooked.



This screen has two tabs. The left tab is a listing of the **Deficiency Items issued by the QC Staff** and the right tab is a recap of the **Deficiency items issued by the Government (QA)**.

Push the **ADD** button to add a **QC Deficiency Item**.

Deficiency Items Issued by QC

The screenshot shows a window titled "QC Deficiency Item - QC-00001 10/13/2009". It contains the following fields:

- Location:** A dropdown menu with "Mech Room" selected.
- Safety Violation:** An unchecked checkbox.
- Description of Deficiency Item:** A text area containing the text: "Pipe insulation does not extend through the hangers as specified. Remove and replace as required."
- Activity Number:** A dropdown menu with "AOD3021" selected.
- Activity Name:** A text field containing "INSTALL CHWR, CHWS & MISC PIP".

1. Enter the **Location** to allow reports to print a punch list (sorted by Location) for later verification and inspection.

2. Indicate whether or not the comment is a **Safety Violation** by placing a check in the box.

3. Enter the

Description of the Punch List Item in the Memo Field.

You can use the **ellipsis** for location lookup and choose from previous entries and even replace locations with other locations. If someone has used **Room 3**, and someone else has used **Rm 3**, the computer thinks it is a different location. You can reconcile these so they print out together.

A very powerful feature of QCS is how the Contractors' tasks are linked to Pay Activities. **Punch List Items** are one of those links.

We should always link a **Deficiency Item** to the specific *Pay Activity* it is related to.

Use the lookup to access the **Activity Number** and complete the link.

Close the window when completed by pushing the **OK** button, and then close the next window.

You can use the **Search** feature (top of window) and find the item you want by searching for the Activity number or description (bottom of the window).

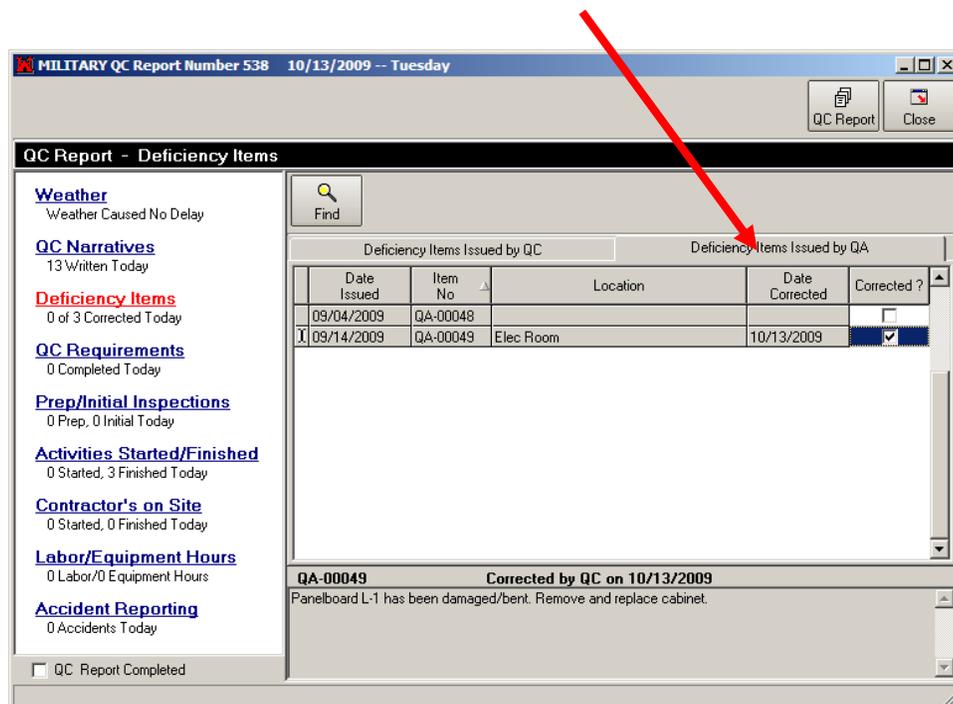
The screenshot shows a dialog box titled "Activity Lookup". It contains the following elements:

- Search Characters:** A text input field at the top.
- Table:** A table with two columns: "Activity" and "Description". The first row is selected and highlighted in blue.
- Search By:** A dropdown menu at the bottom with "Activity" selected.
- Buttons:** "OK" and "Cancel" buttons at the bottom right.
- Status:** "Record 123 of 236." at the bottom left.

Deficiency Items Issued by QA

QA **Deficiency Items** gives the Government a means to communicate to the Contractor comments resulting from an inspection, site visit, or various other reviews. Using the **Deficiency Items** function in RMS, the Government can draw the Contractor's attention to an overlooked item, faulty workmanship or job site conditions, to name a few. As the comment is issued as an action item, the comment is placed on a QC list to be corrected by the Contractor, reported corrected by the Contractor, and then verified by the Government. For the Contractor, the list will be found under the **Deficiency Items Issued by QA** tab. The Government can then track the action until it is reported completed and the Government concurs that the action is completed satisfactorily.

With the **Tab** entitled **Deficiency Items Issued by QA** selected, a complete listing of all Government QA Punch List Items is presented. The description of the comment is displayed in the lower portion of the screen as you scroll through them.



MILITARY QC Report Number 538 10/13/2009 -- Tuesday

QC Report - Deficiency Items

Weather
Weather Caused No Delay

QC Narratives
13 Written Today

Deficiency Items
0 of 3 Corrected Today

QC Requirements
0 Completed Today

Prep/Initial Inspections
0 Prep, 0 Initial Today

Activities Started/Finished
0 Started, 3 Finished Today

Contractor's on Site
0 Started, 0 Finished Today

Labor/Equipment Hours
0 Labor/0 Equipment Hours

Accident Reporting
0 Accidents Today

QC Report Completed

Deficiency Items Issued by QC | Deficiency Items Issued by QA

Date Issued	Item No	Location	Date Corrected	Corrected?
09/04/2009	QA-00048			<input type="checkbox"/>
09/14/2009	QA-00049	Elec Room	10/13/2009	<input checked="" type="checkbox"/>

QA-00049 Corrected by QC on 10/13/2009
Panelboard L-1 has been damaged/bent. Remove and replace cabinet.

When the **QA Punch List Item** has been corrected, or otherwise adequately addressed, simply place a checkmark in the **Corrected?** box. QCS will automatically enter the date corrected.

When completed with the **Punch List Items** selection, highlight the **QC Requirements** selection to proceed to the next step.

QC Requirements

Contract documents may require the Contractor to conduct training for the Customer on systems or equipment (**User Schools**), perform various test on materials, equipment, systems, etc., (**QC Tests**), account for property that is Government Furnished or will be turned-over to the Government as unincorporated property (**Transfer Property**), or provide information for maintenance or repair on equipment installed as part of the contract (**Installed Property**).

QCS titles this group of actions or contract requirements as **QC Requirements**.

These screens function in the same fashion as the previously discussed **QA Punch List Items** screen. That is, the Contractor simply places a checkmark in the **Completed?** box when the action is completed. You are also required to record the **Results** of the test. Like the **QA Punch List Items**, the date field will be automatically populated and the full **Description** can be viewed at the bottom of the window as you scroll through the items.

MILITARY QC Report, Number 538 10/13/2009 -- Tuesday

QC Report - QC Requirements

Weather
Weather Caused No Delay

QC Narratives
13 Written Today

Deficiency Items
1 of 3 Corrected Today

QC Requirements
0 Completed Today

Prep/Initial Inspections
0 Prep, 0 Initial Today

Activities Started/Finished
0 Started, 3 Finished Today

Contractor's on Site
0 Started, 0 Finished Today

Labor/Equipment Hours
0 Labor/0 Equipment Hours

Accident Reporting
0 Accidents Today

QC Report Completed

QC Test	Description	Date Completed	Completed ?	Results
CT-00227	Perform insulation resistance test on transf		<input type="checkbox"/>	

Description **Outstanding** Section: 26.12.1E Paragraph: 23.4.A

Perform insulation resistance test on transformer windings in accordance with the contract specifications. Actual test must be witnessed by the Government.

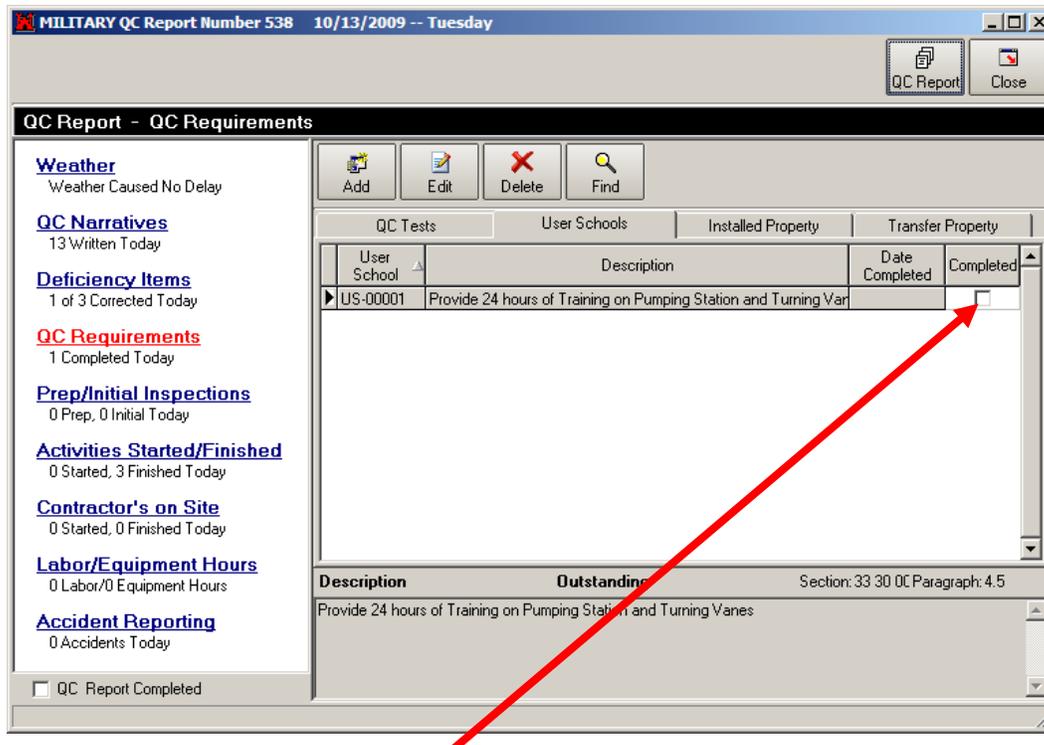
QC Tests

The **QC Tests** Tab option is the entry point for completion of one of the individual tests conducted by the Contractor. This information is then available for verification by the Government if necessary. The listing of the QC Tests should be in agreement with the CQC Plan. After you indicate it is completed, you will need to indicate if the test “passed”, “failed”, or is “awaiting results”. If the test is marked as “failed” you will be given the opportunity to add a follow-up test to take its place (It will be indicated as a RETEST).

User Schools

In this Tab you will enter the completion of the individual **User Schools** that are listed. This information is then available for verification by the Government if necessary.

During the planning stages of the contract, each **User School** (they may be called "Training" or "Instructions") should have been entered as required by the specifications or drawings of the contract.



The screenshot displays the 'MILITARY QC Report Number 538' window for '10/13/2009 -- Tuesday'. The main area is titled 'QC Report - QC Requirements' and features a navigation pane on the left with categories like Weather, QC Narratives, Deficiency Items, QC Requirements, Prep/Initial Inspections, Activities Started/Finished, Contractor's on Site, Labor/Equipment Hours, and Accident Reporting. The 'User Schools' tab is active, showing a table with columns for User School, Description, Date Completed, and Completed. A red arrow points to the 'Completed' checkbox for the entry 'US-00001 Provide 24 hours of Training on Pumping Station and Turning Vanes'. Below the table, a detailed view shows the description 'Provide 24 hours of Training on Pumping Station and Turning Vanes' and the section 'Section: 33 30 0C Paragraph: 4.5'.

User School	Description	Date Completed	Completed
US-00001	Provide 24 hours of Training on Pumping Station and Turning Vanes		<input type="checkbox"/>

Simply check the definitive box as the school or training has been completed.

Installed Property

The **Installed Property** item is the point of entry for the Contractor to indicate that the items identified have been installed. The Government QA Representative will normally verify that this is accomplished for selected or high-interest items. This is usually accomplished at the end of the contract or when a portion of the contract is turned over to the Occupant.

MILITARY QC Report Number 538 10/13/2009 -- Tuesday

QC Report - QC Requirements

Weather
Weather Caused No Delay

QC Narratives
13 Written Today

Deficiency Items
1 of 3 Corrected Today

QC Requirements
1 Completed Today

Prep/Initial Inspections
0 Prep, 0 Initial Today

Activities Started/Finished
0 Started, 3 Finished Today

Contractor's on Site
0 Started, 0 Finished Today

Labor/Equipment Hours
0 Labor/0 Equipment Hours

Accident Reporting
0 Accidents Today

QC Report Completed

User School	Description	Date Completed	Completed
IP-00001	Switchboard S-1, Siemens, Model 3RE, S/N SEI-09-9002A		<input type="checkbox"/>

QC Installed Property

Installed No: IP-00001 Location: Elec Room

Section: 33 70 02.00 10 Unit Type: EA

Paragraph: 3.3.5 Unit Cost: \$4,745.00

Performed by: Sparks

Required for Activity: A0N1501 TRANSFORMER & SWITCHGEAR

Activity Start Date: 05/22/2009A

Requirement Lag/Lead: 0 (days) Requirement Needed by: 05/22/2009

Description, ID, Manufacturer, Model, Serial Number
 Switchboard S-1, Siemens, Model 3RE, S/N SEI-09-9002A

Capacity, BTU, CFM, KVA, HP, Volts, PH, AMPS, etc.
 480/277-volt, 1200 amp, 3-phase

When all information on the **Installed Property** has been provided, and has been installed, check the definitive box to so indicate on the QCR.

NOTE: This screen is also available when pushing the **Edit** button for each item.

Transfer Property

Similar to the above Tab, the **Transfer Property** item is the point of entry for the Contractor to indicate that the items identified for transfer have taken place. After the Contractor has made the appropriate entry indicating a property item has been transferred in full, it should then be verified by the Government and a *DD Form 1149* prepared for the official record of the transfer. Normally this is also completed at the end of the contract or at the time a portion of the contract is turned over to the Occupant.

The screenshot displays the 'MILITARY QC Report Number 538' window for '10/13/2009 -- Tuesday'. The main window shows a sidebar with various report categories and a central table of QC Tests. The 'Transfer Property' tab is selected, and a dialog box is open for editing a specific item.

QC Report - QC Requirements

- Weather**: Weather Caused No Delay
- QC Narratives**: 13 Written Today
- Deficiency Items**: 1 of 3 Corrected Today
- QC Requirements**: 1 Completed Today
- Prep/Initial Inspections**: 0 Prep, 0 Initial Today
- Activities Started/Finished**: 0 Started, 3 Finished Today
- Contractor's on Site**: 0 Started, 0 Finished Today
- Labor/Equipment Hours**: 0 Labor/0 Equipment Hours
- Accident Reporting**: 0 Accidents Today

QC Report Completed

User School	Description	Date Completed	Completed
TP-00001	Provide two sets of spare fuses for all equipment.		<input type="checkbox"/>

QC Transfer Property

Transfer No: TP-00001 Type: Spare Parts

Section: 33 70 02.00 10 ... Location: Elec Room

Paragraph: 13.2.H Unit Type: LS ...

Performed by: Sparks Unit Cost: \$1,355.00

From: Sparks Elec Total Units: 34

To: USACE Transferred Units: 0

Remaining Units: 0

Required for Activity: A0N1501 ... TRANSFORMER & SWITCHGEAR

Activity Start Date: 05/22/2009A

Requirement Lag/Lead: 80 (days) Requirement Needed by: 08/10/2009

Description

Edit: Provide two sets of spare fuses for all equipment.

When all information on the **Transfer Property** has been provided, has been transferred, check the definitive box to so indicate on the QCR. This would be done after the *Remaining Units* field shows a "ZERO" balance.

NOTE: This screen is also available when pushing the Edit button for each item.

Prep/Initial Inspections

In this window the Prep and Initial Inspection data process begins. This part of the QC Daily Report is simply required to document the dates and times of these required Inspections for the numerous *Features of Work* addressed in the Contract and in the CQC Plan.

Feature	Preparatory Inspection	Initial Inspection
00700 CONTRACT CLAUSES	Not Scheduled	Not Scheduled
01 91 00 COMMISSION HVAC SYS	Not Scheduled	Not Scheduled
01012 DESIGN AFTAWARD	Not Scheduled	Not Scheduled
01312A QUALITY CQCS	Not Scheduled	Not Scheduled
01355A ENVIROMENTPROTECTIO	Not Scheduled	Not Scheduled
01451A C/QUALITY CONTROL	Not Scheduled	Not Scheduled
01500A TEMP CONSTFACILITIE	Not Scheduled	Not Scheduled
01780 CLOSEOUT SUBMITTAL	Not Scheduled	Not Scheduled
01780 PROJECT CLOSE-OUT	Not Scheduled	Not Scheduled
10 10 00 VIS COMM SPECIALTI	Scheduled 09/25/2009	Scheduled 09/30/2009
10 14 02 INTERIOR SIGNAGE	Scheduled 09/25/2009	Scheduled 10/20/2009
11 42 00 FOOD PREP EQUIPMENT	Scheduled 09/23/2009	Scheduled 09/30/2009
12 21 00 WINDOW BLINDS	Scheduled 09/24/2009	Scheduled 10/12/2009
23 05 93 TAB HVAC SYS	Scheduled 10/12/2009	Scheduled 10/15/2009
32 05 33 LANDSCAPE ESTBLSMEN	Scheduled 09/28/2009	Scheduled 10/08/2009
32 12 43 POROUS PAVING	Scheduled 09/24/2009	Scheduled 09/28/2009
32 17 24 PAVEMENT MARKINGS	Scheduled 10/05/2009	Scheduled 10/08/2009
33 82 00 TELECOM O/PLNT OS	Not Scheduled	Not Scheduled

Prep / Initial Inspections Window

1. The **Feature** is automatically populated with the information supplied in the Quality Control area, **Features of Work** option.
2. Select the **EDIT** button to enter dates and times.
3. Each feature will be listed with fields for the dates and times of the preparatory and initial inspections. Enter in the *Prep Scheduled* date and *Prep Time*, and then the *Prep Held* date (**Actual Date of Preparatory Inspection**), for the preparatory inspection. Repeat the process for the *Initial Scheduled*, *Initial Held* Dates and *Initial Time* fields.

Preparatory

Scheduled Date: 09/25/2009 Time: 9:00 AM
 Held Date: 10/30/2009

Initial

Scheduled Date: 09/30/2009 Time: 9:00 AM
 Held Date: 11/03/2009

Activities Started/Finished

Recording the start and finish dates of an activity takes place in this menu item.

The dates will not be overwritten by the Contractor's NAS import. These dates are considered the "official" dates because they are entered as they occur, as observed on-site by the QC Manager. The dates are extremely important and must be entered as they occur. It is important that the Actual Start/Finish dates be used in updating the project Schedule – if the dates do not match the program, you will not be able to import your new schedule. RMS/QCS cannot determine the validity of the dates themselves – that is, if the QCR dates are different than the SDEF dates, which one is correct? There are two ways to prevent this from happening: first, the SDEF dates should be made to match the QCR entries. Second, if the SDEF dates are really the correct dates, then the dates in the QCR must be changed. If the latter is required, the Government must be asked to "**Return to Contractor for Corrections**" (you need to ask for two reports – the incorrect one and the one you want to make correct) from the RMS program. You cannot change dates if the QCR is already sent to RMS and marked completed, unless the Government returns the QCR to you. You cannot change a date previously entered.

Activities Started / Finished Window

The screenshot shows a software window titled "MILITARY QC Report Number 562 11/06/2009 -- Friday". The window contains a sidebar on the left with various report sections: Weather (0 Written Today), QC Narratives (0 Written Today), Deficiency Items (2 of 2 Corrected Today), QC Requirements (0 Completed Today), Prep/Initial Inspections (0 Prep, 0 Initial Today), **Activities Started/Finished** (2 Started, 1 Finished Today), Contractor's on Site (0 Started, 0 Finished Today), Labor/Equipment Hours (0 Labor/0 Equipment Hours), and Accident Reporting (0 Accidents Today). The main area is a table with the following data:

Activity ID	Description	Actual Start Today	Actual Finish Today
A0A128	1CONTRACT	11/06/2009	11/06/2009
A0B263	GOVT APPROVAL CONTROL TESTING	11/06/2009	11/22/2009
A0D293	INSTALL CORNER GUARDS	07/29/2009	
A0D313	ELEC/TEL/DATA/TV WIRING, INTER	08/03/2009	
A0D321	SOUND Baffles & GYM CURTAIN..	11/24/2009	
A0D370	PLUMBING FIXTURES & MISC TRIM	11/24/2009	
A0N182	LANDSCAPING , UNDERGROUND SPRI	07/22/2009	
A0N1821	LANDSCAPING, EXTERIOR PLANTS	08/05/2009	
A0N1822	LANDSCAPING, SEEDING	08/06/2009	
A0N210	FIRE LANE & GRASS PAVERS	08/14/2009	
A0N219	CHAINLINK FENCE	10/05/2009	

This listing can be filtered by one of the following choices:

- All Activities
- Activities Not Previously Finished
- Activities Started or Finished Today
- Activities in Progress
- Activities Not Started
- Activities Not Finished

Quality Control System

1. The **Activity ID** and **Description** fields are automatically populated with information entered in the **Administration / Pay Activities**, menu option.
2. Check the applicable **Activity Start Today** and **Activity Finish Today** entries. The date will be automatically populated.

Contractors on Site

The names and trades of the prime contractor and all subcontractors are carried over from the **Administration / Subcontractors** menu modules. By updating the first and last dates each of the listed contractors are on the job site, the contractors insurance and payrolls can be tracked.

As each pay activity is attached to a single subcontractor, expired insurance and problem payrolls will appear on the pay request worksheet for activities on which payment is requested.

Contractor's On Site Window

The screenshot shows a software window titled "MILITARY QC Report Number 538 10/13/2009 -- Tuesday". The main content area is titled "QC Report - Contractor's on Site". On the left, there are several sections: "Weather" (Weather Caused No Delay), "QC Narratives" (13 Written Today), "Deficiency Items" (1 of 3 Corrected Today), "QC Requirements" (1 Completed Today), "Prep/Initial Inspections" (0 Prep, 0 Initial Today), "Activities Started/Finished" (0 Started, 3 Finished Today), "Contractor's on Site" (0 Started, 0 Finished Today), "Labor/Equipment Hours" (0 Labor/0 Equipment Hours), and "Accident Reporting" (0 Accidents Today). At the bottom left, there is a checkbox for "QC Report Completed". The main table has columns for "Contractor", "Trade", "First Day On Site", and "Last Day On Site". A dropdown menu above the table is set to "All Contractors". A red arrow points to this dropdown menu.

Contractor	Trade	First Day On Site	Last Day On Site
▶ RMS Manual	PRIM	09/29/2008	
Acutron, LLC	Insulation-Mechanical	06/18/2009	
Affiliated Const	Masonry	12/19/2008	04/30/2009
American Electric Co	Electrical	08/31/2008	
CB Tech Services Inc	Flooring/Tile		
Commercial Sheetmeta	Mechanical		
Commercial Shtmetal	Mechanical	02/04/2009	
Corps of Engineers	Specialities		
David's Fencing Inc.	Fencing	10/05/2009	
Douglas Eng'ng. Pac	Services/Manpower		
Economy Plumbing	Mechanical	12/24/2008	
Fire Guys	Fire Protection-Systems		
Grace Pacific Corp	Asphalt Paving	08/31/2009	09/02/2009
Hoomana Electric Co	Electrical	03/13/2009	
IPR, Inc.	Specialities	09/15/2009	
Island Wide A/C	Mechanical	08/24/2009	
K. H. Electric, Inc.	Electric Special Systems	01/06/2009	
L.A. Painting Ltd	Painting/Wall Covering	06/24/2009	
LA Painting	Painting/Wall Covering		

This

listing can be filtered by one of the following choices:

- a. *All Contractors*
 - b. *Contractors On Site*
 - c. *Contractors Not On Site*
1. The **Contractor** and **Trade** fields are automatically populated with information previously entered.
 2. Enter the start date for each contractor listed in the **First Day On Site** field using the

calendar lookup provided, or type in the date directly.

- When applicable, enter the final date on the jobsite of each contractor listed in the **Last Day On Site** field in the same manner as above.

Labor Hours

In this option you can record the number of hours of work by each subcontractor and labor classification.

Labor Hours Window

Contractor	Labor Classification	Number of Employees	Total Hours
RMS Manual	CARPENTER	2	16
Solid Surface Techno	CARPENTER	1	7
RMS Manual	CARPENTER APPRENTICE	2	16
RMS Manual	CEMENT MASON	2	16
RMS Manual	LABORER, GROUP 1	3	24
Sok Su, Inc.	LABORERS	1	8
Solid Surface Techno	LABORERS	1	7
Royal Palm Group	LANDSCAPE LABORERS	2	12
RMS Manual	TAPER	2	16
Sok Su, Inc.	TILE LAYER	1	8
National Fire Protec	PIPE FITTER	2	8.5
Acutron, LLC	INSULATION INSTALLER	1	8
M. H. Electric	ELECTRICIAN	2	16
M. H. Electric	ELECTRICIAN APPRENTICE	2	16
RMS Manual	POWER EQUIP OPER, GROUP 6	3	24
L.A. Painting Ltd	PAINTER, JOURNEYMAN	1	8
L.A. Painting Ltd	PAINTER, APPRENTICE	1	8

You begin by pushing the **Add** button. A drop down menu will appear and you will have the option to:

- Add Labor Hours Manually
- Copy A Previous Day

Add Labor Hours Manually

A window will appear and you will use the lookups to select the Contractor and the Labor Classification for which you are reporting.

After the selections have been made, push the **OK** buttons of each window.

**SPEED
BUMP
AHEAD**

Note: If your contract includes Labor Classifications that are not listed, the Government must add the Classification in the program for you. It is the Prime Contractor's obligation to verify that all applicable classifications are included.

MILITARY QC Report Number 538 10/13/2009 -- Tuesday

QC Report - Labor/Equipment Hours

Weather
Weather Caused No Delay

QC Narratives
13 Written Today

Deficiency Items
1 of 3 Corrected Today

QC Requirements
1 Completed Today

Prep/Initial Inspections
0 Prep, 0 Initial Today

Activities Started/Finished
0 Started, 3 Finished Today

Contractor's on Site
0 Started, 0 Finished Today

Labor/Equipment Hours
218 Labor/24 Equipment Hours

Accident Reporting
0 Accidents Today

QC Report Completed

Labor Hours		Equipment Hours	
Contractor	Labor Classification	Number of Employees	Total Hours
Solid Surface Techno	CARPENTER	1	7
RMS Manual	CARPENTER APPRENTICE	2	16
RMS Manual	CEMENT MASON	2	16
RMS Manual	LABORER, GROUP 1	3	24
Sok Su, Inc.	LABORERS	1	8
Solid Surface Techno	LABORERS	1	7
Royal Palm Group	LANDSCAPE LABORERS	2	12
RMS Manual	TAPER	2	16
Sok Su, Inc.	TILE LAYER	1	8
National Fire Protec	PIPE FITTER	2	8.5
Acutron, LLC	INSULATION INSTALLER	1	8
M. H. Electric	ELECTRICIAN	2	16
M. H. Electric	ELECTRICIAN APPRENTICE	2	16
RMS Manual	POWER EQUIP OPER, GROUP 6	3	24
L.A. Painting Ltd	PAINTER, JOURNEYMAN	1	8
L.A. Painting Ltd	PAINTER, APPRENTICE	1	8
David's Fencing Inc.	FENCE ERECTOR	0	0

Enter **Number of Employees** and the **TOTAL Hours Worked** by all employees. For example, if you had six (6) employees and they each worked eight (8) hours; you would enter "6" and "48", respectively.

Repeat this process for all other **Labor Classifications** and **Contractors** on-site.

Copy a Previous Day

When this selection is made, you simply use the calendar lookup to select the previous report. QCS will automatically capture all entries from that previous report and you will be able to edit or delete particular entries if they do not apply for the current report day.

Calendar

February, 2006

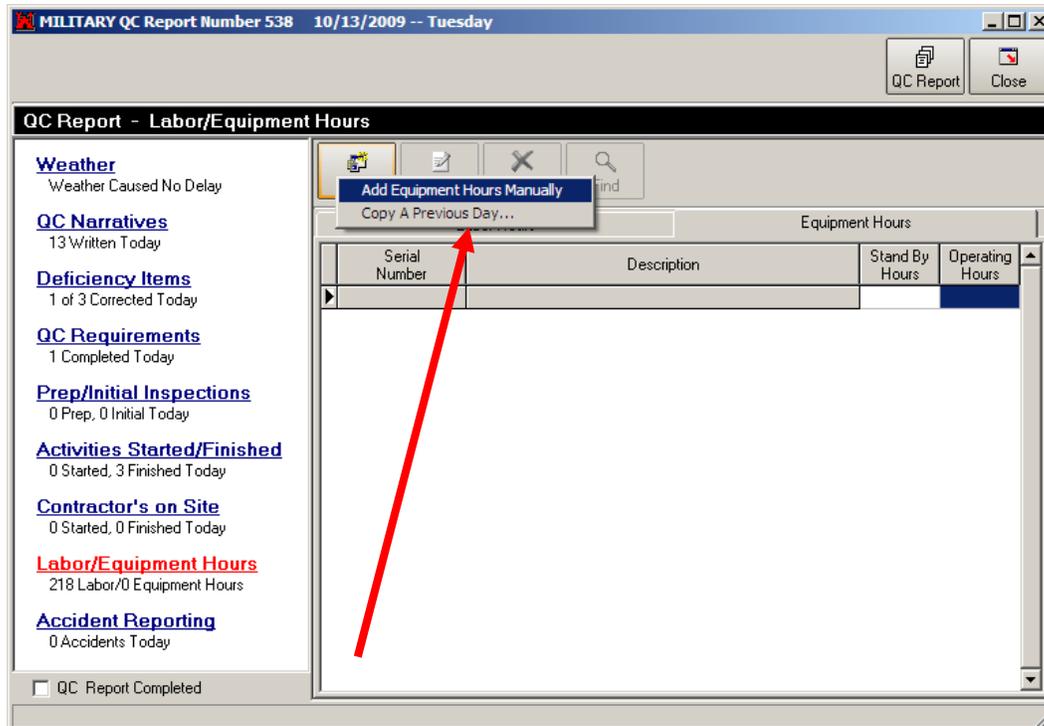
Sun	Mon	Tue	Wed	Thu	Fri	Sat
29	30	31	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	1	2	3	4
5	6	7	8	9	10	11

Today: 3/31/2006

Equipment Hours

This is where the contractor will record the hours used for all pieces of equipment on the contract. Equipment hours are entered and tracked in a similar fashion, as were the labor hours, except you make an entry for each individual piece of equipment.

Equipment Hours Window



You begin by pushing the **Add** button. If this is your first entry of the day, a drop down menu will appear and you will have the option to:

- a. *Add Equipment Hours Manually*
- b. *Copy A Previous Day...*

Add Equipment Hours Manually

A window will appear and you will use the lookups to select the Equipment for which you are reporting. You should have previously entered equipment as was all ready discussed.

If the desired piece of equipment is not present, use the button at the bottom left of the window and **Add Equipment** as necessary.

The **Standby Hours** and **Operating Hours** fields are self-explanatory. However, keep in mind that this refers to SHIFT hours, not the hours in a 24-hours day.

Serial No	Description
JFF 0096306	Nan Case Loader
1M2K197CS7N034900	Nan Concrete Pump
11322	Nan Min Excavator PC20
515817920	Nan Bobcat 75B
0160031866	AC Gradall #10
0503-105366-1	Nan Loader John Deere 644H
0160033070	AC Gradall 10054
756483	Nan Case Loader 821C
220310	Nan Crane RT635C
JJG0230102	HE Backhoe 580L
MX20913	EP Scissors Lift

Copy A Previous Day

When this selection is made, you simply use the calendar lookup to select the previous report. QCS will automatically capture all entries from that previous report and you will be able to edit or delete particular entries if they do not apply for the report day.

The process is very similar to the Labor Hours previously discussed.

Accident Reporting

The contractor is required to report all Contractor accidents. The Contractor reports and records the accident in QCS through the **Quality Control Report** menu option. **(Note: this does not take the place of the Contractor completing the Accident Report Form (Eng Form 3394) that may be required by the contract.)**

Accident Reporting Window

The screenshot shows the 'QC Report - Accident Reporting' window. The sidebar on the left contains the following categories:

- Weather**: Weather Caused No Delay
- QC Narratives**: 13 Written Today
- Deficiency Items**: 1 of 3 Corrected Today
- QC Requirements**: 1 Completed Today
- Prep/Initial Inspections**: 0 Prep, 0 Initial Today
- Activities Started/Finished**: 0 Started, 3 Finished Today
- Contractor's on Site**: 0 Started, 0 Finished Today
- Labor/Equipment Hours**: 218 Labor/24 Equipment Hours
- Accident Reporting**: 0 Accidents Today

At the bottom of the sidebar is a checkbox labeled 'QC Report Completed'. The main area has a toolbar with 'Add', 'Edit', 'Delete', and 'Find' buttons. Below the toolbar is a table with the following columns: 'Accident Date', 'Accident', 'Reportable Accident', 'Lost Days', and 'Report to Government'. A red arrow points to the 'Add' button.

Push the **ADD** button to enter the accident screen.

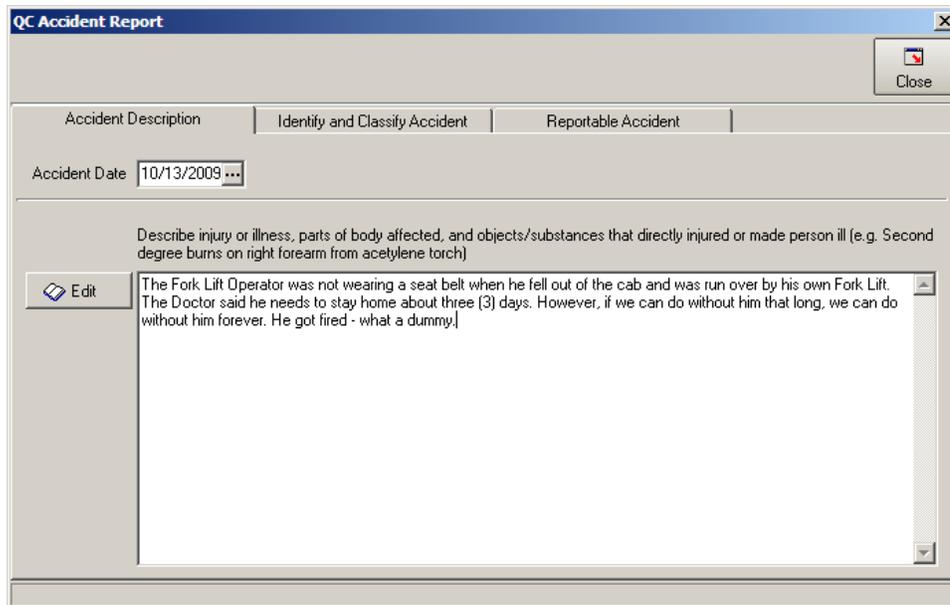
QCS will automatically populate the Accident Date field with the Report date, but it can be changed if needed.

There are three basic steps required for entering a report of an accident:

1. Enter a description and date of the accident
2. Identify and Classify the accident
3. Indicate if it was a reportable accident

Accident Description

Enter a description of the Accident. The description should be factual on not your opinion of what occurred. It should indicate the parts of body affected any objects or substances that were involved. Be as specific as you can.



QC Accident Report

Close

Accident Description | Identify and Classify Accident | Reportable Accident

Accident Date: 10/13/2009 ...

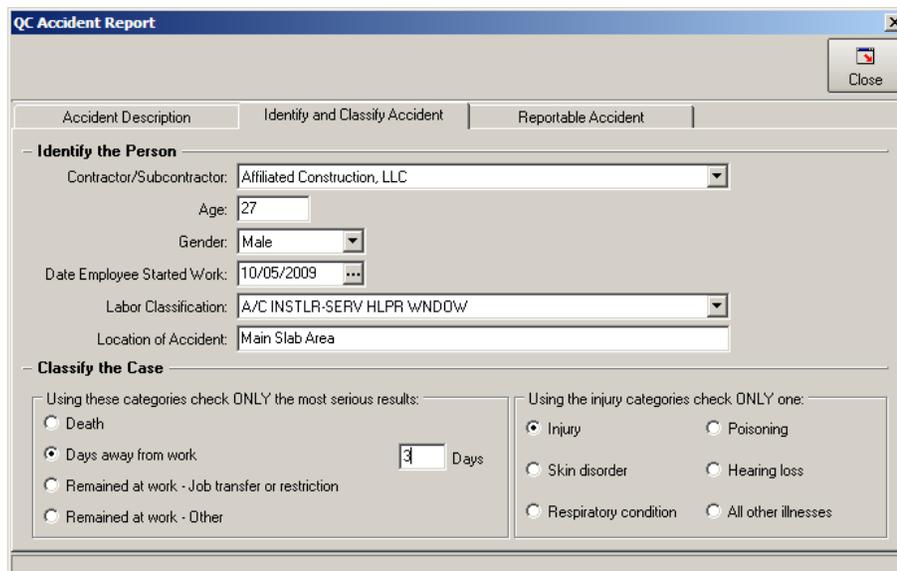
Describe injury or illness, parts of body affected, and objects/substances that directly injured or made person ill (e.g. Second degree burns on right forearm from acetylene torch)

Edit

The Fork Lift Operator was not wearing a seat belt when he fell out of the cab and was run over by his own Fork Lift. The Doctor said he needs to stay home about three (3) days. However, if we can do without him that long, we can do without him forever. He got fired - what a dummy.

Identify and Classify the Accident

You will enter the contractor/subcontractor involved, as well as basic information on the employee involved in the accident. Indicate the most serious result of the accident from the available choices and identify the injury category.



QC Accident Report

Close

Accident Description | Identify and Classify Accident | Reportable Accident

Identify the Person

Contractor/Subcontractor: Affiliated Construction, LLC

Age: 27

Gender: Male

Date Employee Started Work: 10/05/2009 ...

Labor Classification: A/C INSTLR-SERV HLPR WNDOW

Location of Accident: Main Slab Area

Classify the Case

Using these categories check ONLY the most serious results:

Death

Days away from work: 3 Days

Remained at work - Job transfer or restriction

Remained at work - Other

Using the injury categories check ONLY one:

Injury

Poisoning

Skin disorder

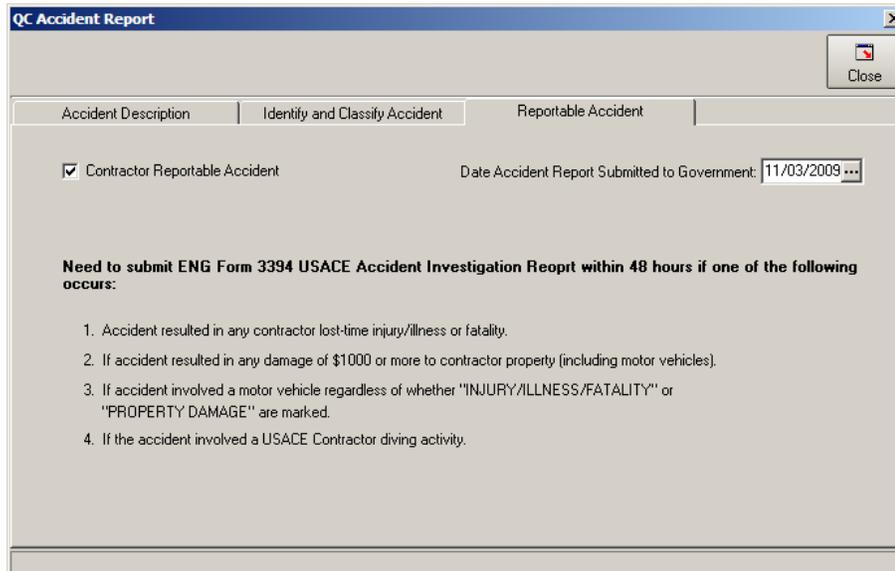
Hearing loss

Respiratory condition

All other illnesses

Indicate if the Accident is reportable

Indicate if it is a **Contractor Reportable Accident**. If so, a date field will appear where you will record the date on which the *ENG Form 3394 Accident Report Form* was sent to the Government documenting the accident.



The screenshot shows a web-based form titled "QC Accident Report" with a "Close" button in the top right corner. The form has three tabs: "Accident Description", "Identify and Classify Accident", and "Reportable Accident". The "Reportable Accident" tab is active, showing a checked checkbox for "Contractor Reportable Accident" and a date field for "Date Accident Report Submitted to Government" with the value "11/03/2009". Below this, there is a bolded instruction: "Need to submit ENG Form 3394 USACE Accident Investigation Report within 48 hours if one of the following occurs:" followed by a numbered list of four conditions.

Accident Description	Identify and Classify Accident	Reportable Accident
	<input checked="" type="checkbox"/> Contractor Reportable Accident	Date Accident Report Submitted to Government: 11/03/2009 ...

Need to submit ENG Form 3394 USACE Accident Investigation Report within 48 hours if one of the following occurs:

1. Accident resulted in any contractor lost-time injury/illness or fatality.
2. If accident resulted in any damage of \$1000 or more to contractor property (including motor vehicles).
3. If accident involved a motor vehicle regardless of whether "INJURY/ILLNESS/FATALITY" or "PROPERTY DAMAGE" are marked.
4. If the accident involved a USACE Contractor diving activity.

Push the **Close** button to save all entries.

Quality Control Report Form

Now that all desired entries have been made, it is time to print the report and archive it as a permanent document for the contract. Press the **QC Report** button from this screen to generate the report.

The screenshot displays the 'MILITARY QC Report Number 538' interface for the date '10/13/2009 -- Tuesday'. A red arrow points to the 'QC Report' button in the top right corner. The main window shows a sidebar with navigation links: Weather (Weather Caused No Delay), QC Narratives (13 Written Today), Deficiency Items (1 of 3 Corrected Today), QC Requirements (1 Completed Today), Prep/Initial Inspect (0 Prep, 0 Initial Today), Activities Started/Finished (0 Started, 3 Finished Today), Contractor's on Site (0 Started, 0 Finished Today), Labor/Equipment (218 Labor/24 Equipment), and Accident Reporting (1 Accident Today). A 'QC Report Completed' checkbox is also visible.

The 'QC Print Preview' window shows a 'QC Daily Report' form. The form includes the following sections:

CONTRACTOR'S QUALITY CONTROL REPORT (QCR) DAILY LOG OF CONSTRUCTION - MILITARY		REPORT NUMBER 538	Page 1 of 5
PROJECT NSA Training Center	DATE 13 Oct 2009 - Tuesday	CONTRACT NUMBER H91224-09-2-0004 NA	
CONTRACTOR NSA (contract)	OFFICER James Charles McDERMOTT Temperature: 10.0 to 77.0 F, 52.0 to 6.0 N, Reception: 15.0 MP/Wind		
QC NARRATIVES			
Activities in Progress:			
<ul style="list-style-type: none"> 1. Activity Code AQC 001 - Install Windows at Desktop 2. Continue to install high level desktop software at room 12.2.3. Activity Code AQC 002 - Install Office Equipment at Desktop 3. Install Office Equipment at Desktop Activity Code AQC 003 - Setup and Release Training & Testing 4. Continue to install and test high level desktop software Activity Code AQC 010 - Clean up 5. Continue to clean up the site Activity Code AQC 011 - Install Office Equipment 6. Install Office Equipment at Desktop 7. Prepare the site for the next day 8. Prepare the site for the next day 9. Prepare the site for the next day 10. Prepare the site for the next day 11. Prepare the site for the next day 12. Prepare the site for the next day 13. Prepare the site for the next day 14. Prepare the site for the next day 15. Prepare the site for the next day 16. Prepare the site for the next day 17. Prepare the site for the next day 18. Prepare the site for the next day 19. Prepare the site for the next day 20. Prepare the site for the next day 21. Prepare the site for the next day 22. Prepare the site for the next day 23. Prepare the site for the next day 24. Prepare the site for the next day 25. Prepare the site for the next day 26. Prepare the site for the next day 27. Prepare the site for the next day 28. Prepare the site for the next day 29. Prepare the site for the next day 30. Prepare the site for the next day 31. Prepare the site for the next day 32. Prepare the site for the next day 33. Prepare the site for the next day 34. Prepare the site for the next day 35. Prepare the site for the next day 36. Prepare the site for the next day 37. Prepare the site for the next day 38. Prepare the site for the next day 39. Prepare the site for the next day 40. Prepare the site for the next day 41. Prepare the site for the next day 42. Prepare the site for the next day 43. Prepare the site for the next day 44. Prepare the site for the next day 45. Prepare the site for the next day 46. Prepare the site for the next day 47. Prepare the site for the next day 48. Prepare the site for the next day 49. Prepare the site for the next day 50. Prepare the site for the next day 51. Prepare the site for the next day 52. Prepare the site for the next day 53. Prepare the site for the next day 54. Prepare the site for the next day 55. Prepare the site for the next day 56. Prepare the site for the next day 57. Prepare the site for the next day 58. Prepare the site for the next day 59. Prepare the site for the next day 60. Prepare the site for the next day 61. Prepare the site for the next day 62. Prepare the site for the next day 63. Prepare the site for the next day 64. Prepare the site for the next day 65. Prepare the site for the next day 66. Prepare the site for the next day 67. Prepare the site for the next day 68. Prepare the site for the next day 69. Prepare the site for the next day 70. Prepare the site for the next day 71. Prepare the site for the next day 72. Prepare the site for the next day 73. Prepare the site for the next day 74. Prepare the site for the next day 75. Prepare the site for the next day 76. Prepare the site for the next day 77. Prepare the site for the next day 78. Prepare the site for the next day 79. Prepare the site for the next day 80. Prepare the site for the next day 81. Prepare the site for the next day 82. Prepare the site for the next day 83. Prepare the site for the next day 84. Prepare the site for the next day 85. Prepare the site for the next day 86. Prepare the site for the next day 87. Prepare the site for the next day 88. Prepare the site for the next day 89. Prepare the site for the next day 90. Prepare the site for the next day 91. Prepare the site for the next day 92. Prepare the site for the next day 93. Prepare the site for the next day 94. Prepare the site for the next day 95. Prepare the site for the next day 96. Prepare the site for the next day 97. Prepare the site for the next day 98. Prepare the site for the next day 99. Prepare the site for the next day 100. Prepare the site for the next day 			
Did anything develop that may lead to a Change Order/Claim? None			
Were there any Delays in Work Progress today? None			
Details Comments: 1. Review daily site progress on site 2. All work done on site 3. All work done on site 4. All work done on site 5. All work done on site 6. All work done on site 7. All work done on site 8. All work done on site 9. All work done on site 10. All work done on site 11. All work done on site 12. All work done on site 13. All work done on site 14. All work done on site 15. All work done on site 16. All work done on site 17. All work done on site 18. All work done on site 19. All work done on site 20. All work done on site 21. All work done on site 22. All work done on site 23. All work done on site 24. All work done on site 25. All work done on site 26. All work done on site 27. All work done on site 28. All work done on site 29. All work done on site 30. All work done on site 31. All work done on site 32. All work done on site 33. All work done on site 34. All work done on site 35. All work done on site 36. All work done on site 37. All work done on site 38. All work done on site 39. All work done on site 40. All work done on site 41. All work done on site 42. All work done on site 43. All work done on site 44. All work done on site 45. All work done on site 46. All work done on site 47. All work done on site 48. All work done on site 49. All work done on site 50. All work done on site 51. All work done on site 52. All work done on site 53. All work done on site 54. All work done on site 55. All work done on site 56. All work done on site 57. All work done on site 58. All work done on site 59. All work done on site 60. All work done on site 61. All work done on site 62. All work done on site 63. All work done on site 64. All work done on site 65. All work done on site 66. All work done on site 67. All work done on site 68. All work done on site 69. All work done on site 70. All work done on site 71. All work done on site 72. All work done on site 73. All work done on site 74. All work done on site 75. All work done on site 76. All work done on site 77. All work done on site 78. All work done on site 79. All work done on site 80. All work done on site 81. All work done on site 82. All work done on site 83. All work done on site 84. All work done on site 85. All work done on site 86. All work done on site 87. All work done on site 88. All work done on site 89. All work done on site 90. All work done on site 91. All work done on site 92. All work done on site 93. All work done on site 94. All work done on site 95. All work done on site 96. All work done on site 97. All work done on site 98. All work done on site 99. All work done on site 100. All work done on site			
Verbal instructions given by Government: None			

The report can be reviewed from this screen prior to printing. If changes are necessary, close this window and make the necessary changes. The report can also be exported as a PDF File, in HTML or Word (doc) format. It can also be sent to a printer file.

When you complete the report and export to the Government, you will not be able to alter the report. It will be marked as **"Read Only"**. If changes really need to be made to the report, you can ask the Government to return the report to you for corrections.

Chapter 4 – Submittals & Transmittals

What you will learn from this Chapter

- Overview of Submittals Requirements
- Reference Documents
- SpecsIntact Submittal Program
- Submittal Register (ENG Form 4288)
- Transmittal Log (ENG Form 4025)
- Transfer of Submittals



Contract Submittals

Overview



This chapter furnishes information on **Submittals and transmittals** for our contracts and provides instructions for utilizing the associated **Submittal** related modules of the QCS program.

Reference Documents:

1. **Engineer Regulation ER 415-1-10: Contractor Submittal Procedures**
(<http://140.194.76.129/publications/eng-regs/er415-1-10/toc.htm>)
2. **Engineer Regulation ER 1180-1-6: Construction Quality Management**
(<http://140.194.76.129/publications/eng-regs/er1180-1-6/toc.htm>)
3. **Guide Specification UFGS-01 33 00: Submittal Procedures**
(<http://www.wbdg.org/ccb/DOD/UFGS/UFGS%2001%2033%2000.pdf>)

Submittals are a Contract Requirement

The Contractor is required to furnish a specified quality of construction, including materials and equipment to be incorporated in the work. Control of the quality of materials and equipment require timely review, testing, or other evaluation. All required submittals must be made in time to allow for evaluation, approval, procurement, and delivery prior to the preparatory control phase and before the item is needed in the construction process. The primary responsibility for the overall management and control of contractor submittals lies with the **Prime Contractor**. Monitoring of the Contractor's quality management control to assure that the submittals are timely, appropriately certified, and in compliance with the contract is the responsibility of the **Government**.

While the submittal process can be time consuming for both Contractor and Government technical and administrative personnel and can significantly affect the construction schedule, procurement, placement, testing, and transfer procedures, it is critical to the success of both the quality control and quality assurance processes. As such, its scope must be carefully thought out during the design process and submittal requirements tailored to trim-fit the specific job. Because submittal approval must be timely to allow procurement and delivery of materials or equipment prior to the preparatory inspection (P/I) phase of the 3-step inspection process, the number and type of



submittals required by the contract should be kept to the minimum amount sufficient to assure the specified construction quality is achieved.

From a contractual standpoint, all required submittals are “important”. However, some are more critical to quality management than others, particularly extensions of design, deviations, and those involving critical materials or equipment, which must be compatible with an entire system. By regulation and policy, these critical submittals require Government approval. Review for Government approval can involve construction field and District Office, District engineering division, and design Architect-Engineer personnel. Submittals of a less critical nature are usually approved by the contractor and submitted to the Government “**For Information Only**” (FIO). As a quality assurance measure, regulations require Government review of a percentage (10%) of all Contractor approved **FIO** submittals.

Submittals that require Government Approval

Submittals that should always require Government Approval are: (Examples provided are not all inclusive and are used only for illustration purposes.)

Extensions of Design

Examples:

1. Fire Alarm Systems
2. Fire Sprinkler Systems
3. Prefabricated Buildings
4. Structural Steel Drawings
5. Standing Seam Metal Roof Drawings
6. Coordination Studies such as short circuit analysis

Critical Materials

These are materials that must meet specific quality performance standards.

Examples:

1. Coatings for Cathodic protection of storage tanks
2. High-pressure piping and controls
3. Acid and Hazardous Waste Systems
4. Architectural Finishes for Customer Approval

Deviations

This includes any submittal by the construction Contractor that varies from the construction contract specifications or drawings.

O&M Manuals

These include those involving equipment that must be checked for compatibility with the entire system.

Examples:

1. Sewage Treatment Systems
2. Water Purification Plants
3. Energy Management Control Systems
4. Intrusion Detection Systems
5. Power Generation and Distribution Systems

SpecsIntact

(Specifications-Kept-Intact) Specification Production System

The National Aeronautics and Space Administration (NASA) developed this program over a period of years; by the Construction Criteria Base (CCB) system, which was developed by the National Institute of Building Sciences (NIBS); by the cooperative efforts of the military services; and by the Internet.

The use of SpecsIntact in both Military and Civil construction contracts is mandatory, as established within Engineering Regulation **ER 1110-2-1201** and CEMP-EA (1110) Memorandum of 14 April 1997, for all FY00 and future projects. This policy has been incorporated into **ER 1110-345-700**, "**Drawings, Design Analysis, and Specifications**".

For those that may need assistance with SpecsIntact, the **Kennedy Space Center (KSC)** maintains a web site at URL <http://si.ksc.nasa.gov/specsintact/> to accept user feedback and to provide access to the latest software releases, the on-line User Guide, and other current news. Additionally, CECW-EP has arranged for on-site SpecsIntact training if requested, and the Prospect Course 185, **Specification Writing for Construction Contracts**, includes four hours of SpecsIntact job processing and editor instruction.

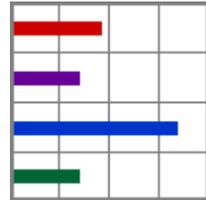
The Corps of Engineers uses a section numbering system based on the CSI MasterFormat; and uses a uniform section format based on the CSI Manual of Practice and the SpecsIntact system. The Corps of Engineers Guide Specifications is designed to be used with SpecsIntact. It is a personal computer-based system for the production of project specifications. SpecsIntact is designed to assemble project specifications from one or more guide specification databases (Masters), from other projects, or from sections written specifically for the project. When our contract specifications are generated in SpecsIntact they can be directly imported into RMS in the format of the ENG Form 4288, **Submittal Register**, and then exported into the QCS program. A future enhancement will afford the ability to import from SpecsIntact directly into QCS. This will be especially important for Design-Build contracts.

Government Responsibilities (ER 415-1-10)

The designer will prepare a list of submittals required for each contract. This list must be very specific to allow the construction Contractor to know exactly what is required to be submitted. This list will be prepared electronically on ENG Form 4288-R (**Submittal Register**) and will be limited to columns "d" thru "o". This list will be provided in hard copy and on computer diskette, which is compatible with the QCS and RMS software. Prior to advertisement, construction and

engineering elements jointly determine what submittals require Government Approval (GA) and what submittals are designated For Information Only (FIO). This is noted in columns “p” and “q” on the ENG Form 4288-R. Column “r” is used to designate the reviewer. The information on ENG Form 4288-R is usually incorporated into the specifications prior to advertisement. However, for Design-Build contracts, the Contractor is required to produce this document.

1. The Government COR (Contracting Officer Representative) will review the Contractor’s submittal control document for compliance to the contract, and to assure that all required submittal schedules, review time, and procurement lead times are reasonable. In addition, the document shall be checked against the **Network Analysis System** or other approved construction schedule.



Good News Scenario: Contractor reflects that he is 30-days AHEAD OF SCHEDULE.

Bad News Scenario: The Contract Submittals may very well be BEHIND SCHEDULE by the same time.

Solution: If work or progress is being accelerated for any reason, including Contractor efficiency, the submittal process must also be accelerated.

2. The master copy of the control document is usually maintained in the Area/Resident Office. Control at this level is necessary to ensure effective management of the Contractor and timely response by the Government. It is essential that a complete record of all action dates be maintained and that the document reflects current information for each contract. It is important that certifications required after completion of construction, like roofing systems and underground heat distribution systems, be monitored and obtained at the appropriate times. The Area/Resident Engineer should monitor progress at all times and take appropriate action for any delay. Examples of appropriate actions for Contractor caused delays include letters advising of delinquency, retainage for unsatisfactory progress, and nonpayment for unapproved materials.

Submittal Processes

Now that we understand way more than we will probably need to know, let’s look at how to use QCS for control of Submittals.

Contract Setup

During the setup of a contract, the Government will typically load the ENG Form 4288, Submittal Register, into RMS and it would be exported to the QCS program upon award of the contract. The register is best imported directly from SpecsIntact, as explained earlier. In the case of a

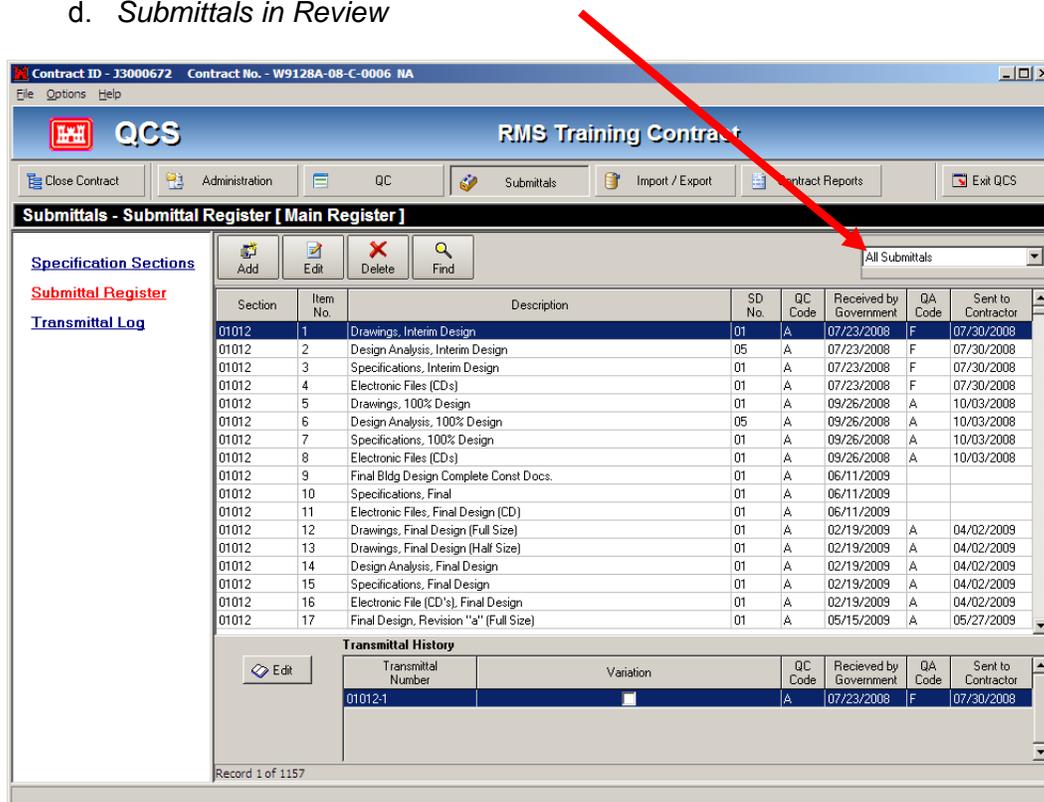
Quality Control System

Design-Build contract, the Contractor will eventually be able to import the register directly from SpecsIntact. At this time, it can be loaded manually into QCS, which is typical for a Design-Build contract. A contract may have an unlimited number of submittal registers, and this is determined by the contract itself. The setup for determining the number of registers is part of the RMS program and would be exported to the QCS program.

This screen reflects a listing of submittal items from the QCS program. It is accessed from the **CONTRACT MENU / SUBMITTALS / SUBMITTAL REGISTER**, as shown below.

This listing can be filtered by one of the following choices:

- a. *All Submittals*
- b. *Completed Submittals*
- c. *Outstanding Submittals*
- d. *Submittals in Review*



The screenshot shows the 'Submittals - Submittal Register [Main Register]' window. The interface includes a menu bar with 'File', 'Options', and 'Help'. Below the menu bar is a toolbar with icons for 'Close Contract', 'Administration', 'QC', 'Submittals', 'Import / Export', 'Contract Reports', and 'Exit QCS'. The main area is divided into a left sidebar with links for 'Specification Sections', 'Submittal Register', and 'Transmittal Log'. The central table displays a list of submittal items with columns for Section, Item No., Description, SD No., QC Code, Received by Government, QA Code, and Sent to Contractor. A red arrow points to a dropdown menu labeled 'All Submittals' in the top right corner of the table area. Below the main table is a 'Transmittal History' section with an 'Edit' button and a table showing transmittal numbers and variations.

Section	Item No.	Description	SD No.	QC Code	Received by Government	QA Code	Sent to Contractor
01012	1	Drawings, Interim Design	01	A	07/23/2008	F	07/30/2008
01012	2	Design Analysis, Interim Design	05	A	07/23/2008	F	07/30/2008
01012	3	Specifications, Interim Design	01	A	07/23/2008	F	07/30/2008
01012	4	Electronic Files (CDs)	01	A	07/23/2008	F	07/30/2008
01012	5	Drawings, 100% Design	01	A	09/26/2008	A	10/03/2008
01012	6	Design Analysis, 100% Design	05	A	09/26/2008	A	10/03/2008
01012	7	Specifications, 100% Design	01	A	09/26/2008	A	10/03/2008
01012	8	Electronic Files (CDs)	01	A	09/26/2008	A	10/03/2008
01012	9	Final Bldg Design Complete Const Docs.	01	A	06/11/2009		
01012	10	Specifications, Final	01	A	06/11/2009		
01012	11	Electronic Files, Final Design (CD)	01	A	06/11/2009		
01012	12	Drawings, Final Design (Full Size)	01	A	02/19/2009	A	04/02/2009
01012	13	Drawings, Final Design (Half Size)	01	A	02/19/2009	A	04/02/2009
01012	14	Design Analysis, Final Design	01	A	02/19/2009	A	04/02/2009
01012	15	Specifications, Final Design	01	A	02/19/2009	A	04/02/2009
01012	16	Electronic File (CD's), Final Design	01	A	02/19/2009	A	04/02/2009
01012	17	Final Design, Revision "a" (Full Size)	01	A	05/15/2009	A	05/27/2009

Transmittal Number	Variation	QC Code	Received by Government	QA Code	Sent to Contractor
01012-1		A	07/23/2008	F	07/30/2008

Record 1 of 1157

Only after our Submittal register(s) is setup, will we be able to begin tracking the actual *Submittals* and *Transmittals* for our contract.

Submittal Requirements

If the Government, via the RMS program, has the SpecsIntact import, you are finished with the setup and the register may be viewed immediately. However, you still may want to make manual entries, or even the complete register entry, so we will explore that process next.

SUBMITTAL REGISTER (ER 415-1-10)				TITLE AND LOCATION RMS Training Contract, Schofield Barracks, Oahu, Hawaii				DATE 03 Nov 2009							
ACTVITY No.	TRANS-MITTAL No.	ITEM No.	SPEC PARAGRAPH No.	DESCRIPTION OF SUBMITTAL	TYPE OF SUBMITTAL	CLASSIFICATION FIO GA DA or CR	CONTRACTOR REVIEWER	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION		GOVERNMENT ACTION		
								SUBMIT NEEDED BY	APPROVAL NEEDED BY	MATERIAL NEEDED BY	CODE	CORPS RECEIVED DATE	CODE	CORPS RETURNED DATE	
SECTION - 01320A PROJECT SCHEDULE															
	1	1	01320A 3.4.1	Preliminary Project Schedule	PRECON SUBMTL	GA						A	25 Sep 08	E	09 Dec 08
	1	2	01320A 3.4.2	Initial Project Schedule	PRECON SUBMTL	GA						A	25 Sep 08	E	09 Dec 08
		3	01320A 3.4.4	Periodic Schedule Updates	PRECON SUBMTL	FIO									
		13	01320A 3.4.3	Periodic Schedule Update (February 2009)	CERTIFICATES	GA									
		14	01320A 3.5.2	Narrative Report (February 2009)	CERTIFICATES	GA									
		15	01320A 3.5.4	Schedule Report (February 2009)	CERTIFICATES	GA									
SECTION - 01330 SUBMITTAL PROCEDURES															
		11	01330 1.8	Updated Submittal Register (July 2009)	PRECON SUBMTL	FIO									
SECTION - 04 20 00 MASONRY															

Example Register – ENG Form 4288

Manually Adding Submittal Items to the Register

We begin the process by selecting **Submittals** and highlighting **Submittal Register** and pushing the **Add** button, as shown below.

The screenshot shows the 'RMS Training Contract' software interface. The title bar indicates 'Contract ID - J3000672' and 'Contract No. - W9128A-08-C-0006 NA'. The main menu includes 'Close Contract', 'Administration', 'QC', 'Submittals', 'Import / Export', and 'Contract Reports'. The 'Submittals' menu is open, showing 'Submittal Register [Main Register]' as the selected option. Below the menu, there are buttons for 'Add', 'Edit', 'Delete', and 'Find'. The 'Add' button is highlighted with a red arrow. The main window displays a table of submittal items:

Section	Item No.	Description	SD No.	QC Code	Received by Government	QA Code	Sent to Contractor
01012	1	Drawings, Interim Design	01	A	07/23/2008	F	07/30/2008
01012	2	Design Analysis, Interim Design	05	A	07/23/2008	F	07/30/2008
01012	3	Specifications, Interim Design	01	A	07/23/2008	F	07/30/2008
01012	4	Electronic Files (CDs)	01	A	07/23/2008	F	07/30/2008
01012	5	Drawings, 100% Design	01	A	09/26/2008	A	10/03/2008
01012	6	Design Analysis, 100% Design	05	A	09/26/2008	A	10/03/2008
01012	7	Specifications, 100% Design	01	A	09/26/2008	A	10/03/2008
01012	8	Electronic Files (CDs)	01	A	09/26/2008	A	10/03/2008
01012	9	Final Bldg Design Complete Const Docs.	01	A	06/11/2009		
01012	10	Specifications, Final	01	A	06/11/2009		
01012	11	Electronic Files, Final Design (CD)	01	A	06/11/2009		
01012	12	Drawings, Final Design (Full Size)	01	A	02/19/2009	A	04/02/2009
01012	13	Drawings, Final Design (Half Size)	01	A	02/19/2009	A	04/02/2009
01012	14	Design Analysis, Final Design	01	A	02/19/2009	A	04/02/2009
01012	15	Specifications, Final Design	01	A	02/19/2009	A	04/02/2009
01012	16	Electronic File (CD's), Final Design	01	A	02/19/2009	A	04/02/2009
01012	17	Final Design, Revision "a" (Full Size)	01	A	05/15/2009	A	05/27/2009

Below the main table is a 'Transmittal History' section with an 'Edit' button and a table showing transmittal details:

Transmittal Number	Variation	QC Code	Received by Government	QA Code	Sent to Contractor
01012-1		A	07/23/2008	F	07/30/2008

Record 1 of 1157

Submittal Item Screen

Details for Submittal Item [40] - RMS Training Contract

Section No. 21 13 13.00 10 Section Title WET PIPE SPRINKLER SYSTEM, FIRE PROTECTION

Item No. 40 Item Description P.I.V. Valve Paragraph 16

Approval Requirement

Classification

For Information Only DA / CR

Government Approval DA / GA

DA - Designer of Record Approval

CR - Government Conformance Review

Drawing FP-3 Submittal Type 03 PRODUCT DATA

Submittal Schedule

Primary Contractor Reviewer

Primary Government Reviewer/Office

Edwina Williams

Schofield Barracks Area Office

02/17/2009A

04/18/2009

03/19/2009

03/19/2009

Section Lookup

Search Characters

Section	Description
▶ 21 13 13.00 10	WET PIPE SPRINKLER SYSTEM, F
21 21 03 00 10	WET CHEMICAL FIRE EXTINGUISH
22 00 00	PLUMBING, GENERAL PURPOSE
23 00 00	HVAC SYSTEMS
23 05 48	VIBRATION & SEISMIC CONTROLS
23 05 93.00 10	TESTING ADJUSTING & BALANCIN
23 07 00	THERMAL INSULATION FOR MECI
23 08 00.00 10	COMMISSIONING OF HVAC SYSTE
23 09 23	DDC FOR HVAC AND OTHER LOC
23 23 00	REFRIGERANT PIPING

Select Column to Search By

Section

Record 56 of 104.

OK Cancel

Use the lookup, or manually type in the **Section** number of the **Submittal Item**. QCS will automatically assign the next available **Item** number for that **Section**, but it can be changed if needed.

You can "search" by *Section* or *Description*.

Push the **OK** button when completed.

You are now ready to begin entering the specific details and requirements of the submittal item.

Submittal Details and Requirements

Submittal Requirements Window

The screenshot shows the 'Submittal Requirements' window for 'Item [40] - RMS Training Contract'. The window contains the following fields and sections:

- Section No.:** 21 13 13 00 10 (Callout A)
- Section Title:** WET PIPE SPRINKLER SYSTEM, FIRE PROTECTION
- Item No.:** 40
- Item Description:** P.I.V. Valve (Callout C)
- Paragraph:** 16 (Callout B)
- Approval Requirement:**
 - Classification:
 - For Information Only
 - Government Approval
 - DA - Designer of Record Approval
 - CR - Government Conformance
 - Primary Contractor Reviewer: [Empty field]
 - Primary Government Reviewer/Office:
 - Edwina Williams
 - Schofield Barracks Area Office
- Drawing:** FP-3 (Callout D)
- Submittal Type:** 03 PRODUCT DATA (Callout E)
- Submittal Schedule:**
 - Required for Activity: A0B207 FIRE DETECTION ITEM
 - Submittal need dates based on Activity Start Date: 02/17/2009A
- Material Delivery Lag/Lead ±:** 60 Days
- Material Needed by:** 04/18/2009
- Procurement Period:** 30 Days
- Approval Needed by:** 03/19/2009
- Government Review Period:** 0 Days
- Submit Needed by:** 03/19/2009

A After the **Section** and **Item** numbers are inserted, and you leave this first screen, they cannot be changed. (If it is incorrect, you will need to delete it and re-enter before proceeding further.)

B The **Paragraph** number is entered from the *Specification Section* paragraph that references the details of this particular submittal item.



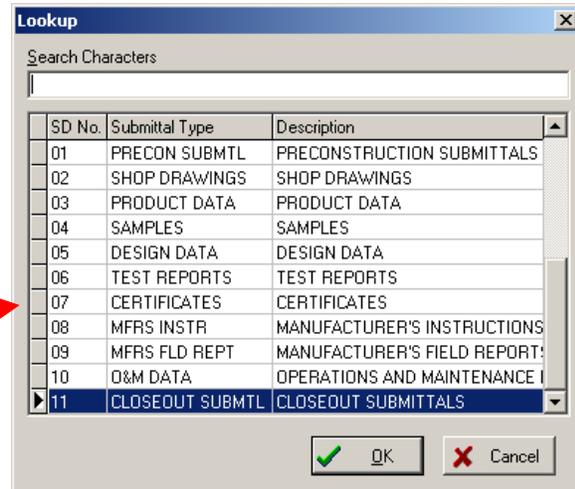
It is highly recommended that the paragraph number be taken from within the body of the specification section that gives the *detailed requirements* of the item. The paragraph number from the front of the section that simply requires the item to be submitted is actually of little use for our purposes of administering the contract.

C The **Description** of the item should clearly convey what it is that is being submitted. It is best not to abbreviate unless it just makes sense to do so. The **Description** will appear on many of the Forms and Reports throughout the QCS and RMS programs.

D The **Drawing** number is the sheet number from the *Contract Drawings* where the item being submitted may be located or referenced (e.g., Sheet C-3A).

E The **Submittal Type** conveys the nineteen *Submittal Descriptions* (SD) that are part of the SpecsIntact program. There are eleven submittal descriptions used on Corps of Engineers', Department of the Air Force, and the Department of the Navy contracts.

Submittal Type Lookup Table



SD No.	Submittal Type	Description
01	PRECON SUBMTL	PRECONSTRUCTION SUBMITTALS
02	SHOP DRAWINGS	SHOP DRAWINGS
03	PRODUCT DATA	PRODUCT DATA
04	SAMPLES	SAMPLES
05	DESIGN DATA	DESIGN DATA
06	TEST REPORTS	TEST REPORTS
07	CERTIFICATES	CERTIFICATES
08	MFRS INSTR	MANUFACTURER'S INSTRUCTIONS
09	MFRS FLD REPT	MANUFACTURER'S FIELD REPORT
10	O&M DATA	OPERATIONS AND MAINTENANCE
11	CLOSEOUT SUBMTL	CLOSEOUT SUBMITTALS

Submittal Descriptions:

SD-01 = Preconstruction Submittals - Submittals which provide Certificates of Insurance, Surety Bonds, List of proposed subcontractors, List of proposed products, Construction Progress Schedule, Submittal Register, Schedule of values, Health and Safety Plan, Work Plan, Quality Control Plan and Environmental Protection Plan.

SD-02 = Shop Drawings – Drawings, schedules, diagrams, and other data prepared specifically for this contract, by contractor or through contractor by way of subcontractor, manufacturer, supplier, distributor, or other lower tier contractor, to illustrate portion of work.

SD-03 = Product data – Preprinted material such as illustrations, standard schedules performance charts, instructions, brochures, diagrams, manufacturer's descriptive literature, catalog data, and other data to illustrate portion of work, but not prepared exclusively for this contract. It also includes samples of warranty language when the contract requires extended product warranties.

SD-04 = Samples – Physical examples of products, materials, equipment, assemblies, or workmanship that are physically identical to portion of work, illustrating portion of work or establishing standards for evaluating appearance of finished work or both. This includes color samples, field samples and mock-ups constructed on the project site.

SD-05 = Design Data – Calculations, mix designs, analyses or other data pertaining to a part of work.

SD-06 = Test Reports – Report signed by authorized official of testing laboratory that a material, product or system identical to the material, product or system to be provided has been tested in accord with specified requirements. (Testing must have been within three years of date of contract award for the project.) Report which includes findings of a test required to be performed by the Contractor on an actual portion of the work or prototype prepared for the project before shipment to job site. Report which includes finding of a test made at the job site or on sample taken from the job site, on portion of work during or after installation. Investigation reports. Daily checklists. Final acceptance test and operational test procedure.



SD-07 = Certificates – Statements signed by responsible officials of manufacturer of product, system or material attesting that product, system or material meets specification requirements. Must be dated after award of project contract and clearly name the project. Document required of Contractor, or of a supplier, installer or subcontractor through Contractor, the purpose of which is to further quality of orderly progression of a portion of the work by documenting procedures, acceptability of methods or personnel qualifications. Confined space entry permits.

SD-08 = Manufacturer's Instructions – Preprinted material describing installation of a product, system or material, including special notices and Material Safety Data Sheets concerning impedances, hazards and safety precautions.

SD-09 = Manufacturer's Field Reports – Documentation of the testing and verification actions taken by manufacturer's representative to confirm compliance with manufacturer's standards or instructions. Factory test reports.

SD-10 = Operation and Maintenance Data – Data that is furnished by the manufacturer, or the system provider, to the equipment operating and maintenance personnel. This data is needed by operating and maintenance personnel for the safe and efficient operation, maintenance and repair of the item.

SD-11 = Closeout Submittals – Documentation to record compliance with technical or administrative requirements or to establish an administrative mechanism.



The SpecsIntact Configuration, Control and Coordinating Board have assigned the SD numbers and names, and they correspond to the terminology used in the technical sections. These numbers and names should remain consistent. An individual Corps of Engineers District Office can add additional SD numbers and names within the Government RMS program.

Approval Requirements

Submittal Requirements Window

F Indicate whether this submittal item will be approved by the Contractor (**For Information Only**) or will require **Government Approval**. The submittal register (*ENG Form 4288-R*) will use the abbreviation of **FIO** for Information Only submittals and **GA** for Government Approval.

G The **Primary Contractor Reviewer** should be selected from the Lookup table. This is typically the individual with overall responsibility for submittal control for the QC process. This individual would coordinate all comments for secondary reviewers, subcontractors, and so forth, prior to submitting the final comments back to the Government with the Transmittal form (*ENG Form 4025*).

H The **Primary Government Reviewer/Office** blocks are primarily controlled by the Government. The lookup can initially be used to indicate that it is expected to be reviewed at the Corps of Engineers District Office (DO), Area Office (AO), Resident Office (RO), Project Office (PO), or by the Architect-Engineer (AE). It may be changed by the Government via a future Export / Import. This is typically the individual with overall responsibility for submittal control for the QA process. This individual would coordinate all comments for secondary reviewers prior to submitting the final comments back to the Contractor with the Transmittal form (*ENG Form 4025*).

Submittal Schedule

In order verify that submittals are or will be timely, they must be coordinated with the Contractor's *scheduling system* (i.e., NAS). QCS, RMS and *ENG Form 4288-R* **REQUIRE** that every submittal item be attached to an individual **Activity** from the Contractor's schedule.

Submittal Requirements Window

I Use the lookup provided for **Required for Activity** and attach the associated Activity for the item being entered on this screen. The idea is to be able to verify that an item is submitted prior to submitting payment for an associated Activity. Therefore, **IT MUST BE ATTACHED to the VERY FIRST activity that has money (funds) attached to it.** The submittal must be approved, etc., prior to the first occurrence of the product being used or installed.

This is important for many obvious reasons, but one specifically comes to mind that we need to understand:

The Activity **start date**, along with **material procurement and lag/lead times**, and the **Approval period** is what determines the dates printed out on the *ENG Form 4288-R* and provides the data for the various sorts within our Submittal Reports.

J In this example, QCS and RMS will *compute* the Submittal need date on the **Activity Schedule** for the Activity, based on the NAS being used. Alternatively, a **Manually Entered**

Work Start Date could be entered here. If the Manual method is selected, a popup calendar will appear and you must enter, and keep updating, the expected start date for the activity.

K The **Government Review Period** is typically 35 calendar days, exclusive of mail time. However, there may be specific submittals or technical sections that have different review periods. For example, it is not uncommon for a contract to specify 90-calendar days for approval of structural steel drawings or prefabricated metal buildings, and so forth. There may also be shorter review periods in some of the front-end specification sections. In any case, enter the review period for this item as required. It will be a time specified in the contract, or a time as mutually agreed after award of the contract.



In the case of a Design-Build Contract, the Contractor must also account for any review period by his Design forces. This may result in a very lopsided requirement time for the submittal to be provided.

L You, as the Contractor, are the only one that can complete the **Material Procurement Period** (unless, perhaps, that Government Furnished Property is being entered). The Prime Contractor must coordinate this period with the responsible Subcontractor during the completion of the register.

Common materials, like cement or gravel may be considered “off-the-shelf items” and the procurement period may be entered as zero. However, there are many pieces of electrical and mechanical equipment that takes weeks, and even months, to receive on the jobsite, following submittal approval. This is an area often ignored, but should be consistently recorded.

M The item represented by this submittal should always be linked to a pay activity. Consequently, the item is either needed on site before the activity starts, when it starts, or after it starts. QCS and RMS use the terms *Lag/Lead* for tracking this information.

Lead Time: minus (-) so many days prior to start of activity

Example: The Activity may be “Drywall”. The submittal item may be the *sheetrock* needed for the Activity. The *sheetrock* may be needed on site 3 days prior to start of the “Drywall” to allow stocking, verification, etc.

Zero: start of activity

Example: The Activity may be “Concrete”. The submittal item may be “Curing Compound” (an off-the-shelf item). The curing compound is needed when the activity “Concrete” begins.

Lag Time: plus (+) so many days after start of activity

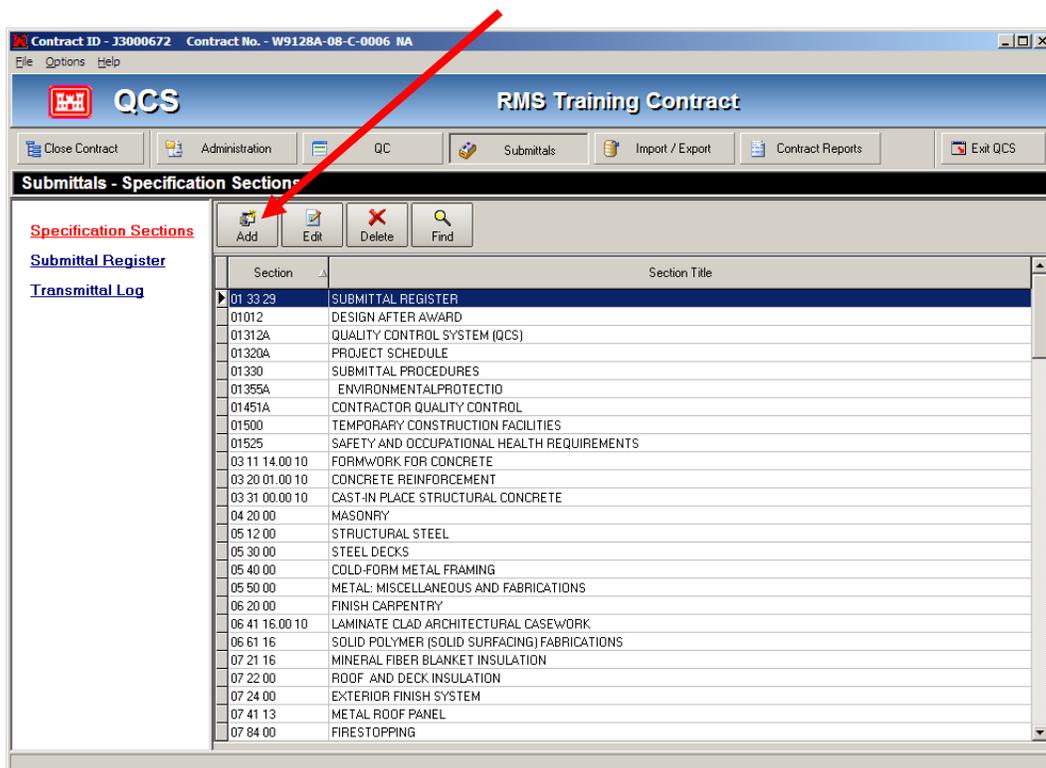
Example: The Activity may be “Erect Metal Building”. The submittal item may be “*Metal Siding*”. The “Metal Building” would be started with erection of the structural steel members and after

that was completed; the “*Metal Siding*” would be applied. This lag time may be several days or even weeks.

Specification Sections

There may be occasion where the Contractor needs to add a Specification Section that is not in the existing submittal register. For example, a Modification has added a specification section, or the contract is a Design-Build contract. You now have two choices when adding a **Specification Section** within QCS. You may select the **Add** button and view the drop-down menu:

- Manually Add New Section
- Select Sections From MasterFormat 1995 Library
- Select Sections From MasterFormat 2004 Library



Manually Add New Section

You may add a section using any number or title you wish.

The section number can be up to fourteen (14) characters long (alpha or numeric).

The section title may be up to 45 characters in length.

Select Sections from MasterFormat 1995 Library or 2004 Library

You view a lookup that originates in the **Government Library** from the **Home** menu. You can either **Check All Sections** *can't imagine you REALLY needing this, but.....*) or check the individual sections need.

Once you choose **Check All Sections**, the title will change to **Remove All Checks From Sections**. (*That is a GOOD thing, just in case you REALLY used Check All Sections!*)

RMS includes the older format of MasterFormat 1995 and now includes the MasterFormat 2004. The older version basically included 16 Specification Divisions and the new format includes 50 Divisions (some are 'reserved' for future use).

When downloaded from SpecsIntact 2004 Library you will download all of the fourteen characters available. With this new format we are able to link the submittal items to various other data, such as QC Test or QA Tests.

RMS/QCS retains the older MasterFormat 1995 numbering system, but has added the newer Industry Standard MasterFormat 2004 system.

Section	Title
<input type="checkbox"/> 04200	Masonry
<input type="checkbox"/> 04220	Nonbearing Masonry Veneer/Stl Stud Walls
<input type="checkbox"/> 04900	Restoration/Cleaning Masonry-Historic St
<input checked="" type="checkbox"/> 05055	Metalwork Fab, Mach Work, Misc Provision
<input type="checkbox"/> 05090	Welding, Structural
<input type="checkbox"/> 05091	Ultrasonic Inspection of Weldments
<input type="checkbox"/> 05092	
<input type="checkbox"/> 05093	
<input type="checkbox"/> 05120	
<input type="checkbox"/> 05210	
<input type="checkbox"/> 05300	
<input checked="" type="checkbox"/> 05400	
<input type="checkbox"/> 05500	
<input type="checkbox"/> 05502	
<input type="checkbox"/> 05503	
<input type="checkbox"/> 05504	
<input type="checkbox"/> 05505	
<input type="checkbox"/> 05506	
<input type="checkbox"/> 05507	
<input type="checkbox"/> 05508	
<input type="checkbox"/> 05509	
<input type="checkbox"/> 05510	
<input type="checkbox"/> 05511	
<input type="checkbox"/> 05512	
<input type="checkbox"/> 05513	
<input type="checkbox"/> 05514	
<input type="checkbox"/> 05515	
<input type="checkbox"/> 05516	
<input type="checkbox"/> 05517	
<input type="checkbox"/> 05518	
<input type="checkbox"/> 05519	
<input type="checkbox"/> 05520	
<input type="checkbox"/> 05521	
<input type="checkbox"/> 05522	
<input type="checkbox"/> 05523	
<input type="checkbox"/> 05524	
<input type="checkbox"/> 05525	
<input type="checkbox"/> 05526	
<input type="checkbox"/> 05527	
<input type="checkbox"/> 05528	
<input type="checkbox"/> 05529	
<input type="checkbox"/> 05530	
<input type="checkbox"/> 05531	
<input type="checkbox"/> 05532	
<input type="checkbox"/> 05533	
<input type="checkbox"/> 05534	
<input type="checkbox"/> 05535	
<input type="checkbox"/> 05536	
<input type="checkbox"/> 05537	
<input type="checkbox"/> 05538	
<input type="checkbox"/> 05539	
<input type="checkbox"/> 05540	
<input type="checkbox"/> 05541	
<input type="checkbox"/> 05542	
<input type="checkbox"/> 05543	
<input type="checkbox"/> 05544	
<input type="checkbox"/> 05545	
<input type="checkbox"/> 05546	
<input type="checkbox"/> 05547	
<input type="checkbox"/> 05548	
<input type="checkbox"/> 05549	
<input type="checkbox"/> 05550	
<input type="checkbox"/> 05551	
<input type="checkbox"/> 05552	
<input type="checkbox"/> 05553	
<input type="checkbox"/> 05554	
<input type="checkbox"/> 05555	
<input type="checkbox"/> 05556	
<input type="checkbox"/> 05557	
<input type="checkbox"/> 05558	
<input type="checkbox"/> 05559	
<input type="checkbox"/> 05560	
<input type="checkbox"/> 05561	
<input type="checkbox"/> 05562	
<input type="checkbox"/> 05563	
<input type="checkbox"/> 05564	
<input type="checkbox"/> 05565	
<input type="checkbox"/> 05566	
<input type="checkbox"/> 05567	
<input type="checkbox"/> 05568	
<input type="checkbox"/> 05569	
<input type="checkbox"/> 05570	
<input type="checkbox"/> 05571	
<input type="checkbox"/> 05572	
<input type="checkbox"/> 05573	
<input type="checkbox"/> 05574	
<input type="checkbox"/> 05575	
<input type="checkbox"/> 05576	
<input type="checkbox"/> 05577	
<input type="checkbox"/> 05578	
<input type="checkbox"/> 05579	
<input type="checkbox"/> 05580	
<input type="checkbox"/> 05581	
<input type="checkbox"/> 05582	
<input type="checkbox"/> 05583	
<input type="checkbox"/> 05584	
<input type="checkbox"/> 05585	
<input type="checkbox"/> 05586	
<input type="checkbox"/> 05587	
<input type="checkbox"/> 05588	
<input type="checkbox"/> 05589	
<input type="checkbox"/> 05590	
<input type="checkbox"/> 05591	
<input type="checkbox"/> 05592	
<input type="checkbox"/> 05593	
<input type="checkbox"/> 05594	
<input type="checkbox"/> 05595	
<input type="checkbox"/> 05596	
<input type="checkbox"/> 05597	
<input type="checkbox"/> 05598	
<input type="checkbox"/> 05599	
<input type="checkbox"/> 05600	
<input type="checkbox"/> 05601	
<input type="checkbox"/> 05602	
<input type="checkbox"/> 05603	
<input type="checkbox"/> 05604	
<input type="checkbox"/> 05605	
<input type="checkbox"/> 05606	
<input type="checkbox"/> 05607	
<input type="checkbox"/> 05608	
<input type="checkbox"/> 05609	
<input type="checkbox"/> 05610	
<input type="checkbox"/> 05611	
<input type="checkbox"/> 05612	
<input type="checkbox"/> 05613	
<input type="checkbox"/> 05614	
<input type="checkbox"/> 05615	
<input type="checkbox"/> 05616	
<input type="checkbox"/> 05617	
<input type="checkbox"/> 05618	
<input type="checkbox"/> 05619	
<input type="checkbox"/> 05620	
<input type="checkbox"/> 05621	
<input type="checkbox"/> 05622	
<input type="checkbox"/> 05623	
<input type="checkbox"/> 05624	
<input type="checkbox"/> 05625	
<input type="checkbox"/> 05626	
<input type="checkbox"/> 05627	
<input type="checkbox"/> 05628	
<input type="checkbox"/> 05629	
<input type="checkbox"/> 05630	
<input type="checkbox"/> 05631	
<input type="checkbox"/> 05632	
<input type="checkbox"/> 05633	
<input type="checkbox"/> 05634	
<input type="checkbox"/> 05635	
<input type="checkbox"/> 05636	
<input type="checkbox"/> 05637	
<input type="checkbox"/> 05638	
<input type="checkbox"/> 05639	
<input type="checkbox"/> 05640	
<input type="checkbox"/> 05641	
<input type="checkbox"/> 05642	
<input type="checkbox"/> 05643	
<input type="checkbox"/> 05644	
<input type="checkbox"/> 05645	
<input type="checkbox"/> 05646	
<input type="checkbox"/> 05647	
<input type="checkbox"/> 05648	
<input type="checkbox"/> 05649	
<input type="checkbox"/> 05650	
<input type="checkbox"/> 05651	
<input type="checkbox"/> 05652	
<input type="checkbox"/> 05653	
<input type="checkbox"/> 05654	
<input type="checkbox"/> 05655	
<input type="checkbox"/> 05656	
<input type="checkbox"/> 05657	
<input type="checkbox"/> 05658	
<input type="checkbox"/> 05659	
<input type="checkbox"/> 05660	
<input type="checkbox"/> 05661	
<input type="checkbox"/> 05662	
<input type="checkbox"/> 05663	
<input type="checkbox"/> 05664	
<input type="checkbox"/> 05665	
<input type="checkbox"/> 05666	
<input type="checkbox"/> 05667	
<input type="checkbox"/> 05668	
<input type="checkbox"/> 05669	
<input type="checkbox"/> 05670	
<input type="checkbox"/> 05671	
<input type="checkbox"/> 05672	
<input type="checkbox"/> 05673	
<input type="checkbox"/> 05674	
<input type="checkbox"/> 05675	
<input type="checkbox"/> 05676	
<input type="checkbox"/> 05677	
<input type="checkbox"/> 05678	
<input type="checkbox"/> 05679	
<input type="checkbox"/> 05680	
<input type="checkbox"/> 05681	
<input type="checkbox"/> 05682	
<input type="checkbox"/> 05683	
<input type="checkbox"/> 05684	
<input type="checkbox"/> 05685	
<input type="checkbox"/> 05686	
<input type="checkbox"/> 05687	
<input type="checkbox"/> 05688	
<input type="checkbox"/> 05689	
<input type="checkbox"/> 05690	
<input type="checkbox"/> 05691	
<input type="checkbox"/> 05692	
<input type="checkbox"/> 05693	
<input type="checkbox"/> 05694	
<input type="checkbox"/> 05695	
<input type="checkbox"/> 05696	
<input type="checkbox"/> 05697	
<input type="checkbox"/> 05698	
<input type="checkbox"/> 05699	
<input type="checkbox"/> 05700	
<input type="checkbox"/> 05701	
<input type="checkbox"/> 05702	
<input type="checkbox"/> 05703	
<input type="checkbox"/> 05704	
<input type="checkbox"/> 05705	
<input type="checkbox"/> 05706	
<input type="checkbox"/> 05707	
<input type="checkbox"/> 05708	
<input type="checkbox"/> 05709	
<input type="checkbox"/> 05710	
<input type="checkbox"/> 05711	
<input type="checkbox"/> 05712	
<input type="checkbox"/> 05713	
<input type="checkbox"/> 05714	
<input type="checkbox"/> 05715	
<input type="checkbox"/> 05716	
<input type="checkbox"/> 05717	
<input type="checkbox"/> 05718	
<input type="checkbox"/> 05719	
<input type="checkbox"/> 05720	
<input type="checkbox"/> 05721	
<input type="checkbox"/> 05722	
<input type="checkbox"/> 05723	
<input type="checkbox"/> 05724	
<input type="checkbox"/> 05725	
<input type="checkbox"/> 05726	
<input type="checkbox"/> 05727	
<input type="checkbox"/> 05728	
<input type="checkbox"/> 05729	
<input type="checkbox"/> 05730	
<input type="checkbox"/> 05731	
<input type="checkbox"/> 05732	
<input type="checkbox"/> 05733	
<input type="checkbox"/> 05734	
<input type="checkbox"/> 05735	
<input type="checkbox"/> 05736	
<input type="checkbox"/> 05737	
<input type="checkbox"/> 05738	
<input type="checkbox"/> 05739	
<input type="checkbox"/> 05740	
<input type="checkbox"/> 05741	
<input type="checkbox"/> 05742	
<input type="checkbox"/> 05743	
<input type="checkbox"/> 05744	
<input type="checkbox"/> 05745	
<input type="checkbox"/> 05746	
<input type="checkbox"/> 05747	
<input type="checkbox"/> 05748	
<input type="checkbox"/> 05749	
<input type="checkbox"/> 05750	
<input type="checkbox"/> 05751	
<input type="checkbox"/> 05752	
<input type="checkbox"/> 05753	
<input type="checkbox"/> 05754	
<input type="checkbox"/> 05755	
<input type="checkbox"/> 05756	
<input type="checkbox"/> 05757	
<input type="checkbox"/> 05758	
<input type="checkbox"/> 05759	
<input type="checkbox"/> 05760	
<input type="checkbox"/> 05761	
<input type="checkbox"/> 05762	
<input type="checkbox"/> 05763	
<input type="checkbox"/> 05764	
<input type="checkbox"/> 05765	
<input type="checkbox"/> 05766	
<input type="checkbox"/> 05767	
<input type="checkbox"/> 05768	
<input type="checkbox"/> 05769	
<input type="checkbox"/> 05770	
<input type="checkbox"/> 05771	
<input type="checkbox"/> 05772	
<input type="checkbox"/> 05773	
<input type="checkbox"/> 05774	
<input type="checkbox"/> 05775	
<input type="checkbox"/> 05776	
<input type="checkbox"/> 05777	
<input type="checkbox"/> 05778	
<input type="checkbox"/> 05779	
<input type="checkbox"/> 05780	
<input type="checkbox"/> 05781	
<input type="checkbox"/> 05782	
<input type="checkbox"/> 05783	
<input type="checkbox"/> 05784	
<input type="checkbox"/> 05785	
<input type="checkbox"/> 05786	
<input type="checkbox"/> 05787	
<input type="checkbox"/> 05788	
<input type="checkbox"/> 05789	
<input type="checkbox"/> 05790	
<input type="checkbox"/> 05791	
<input type="checkbox"/> 05792	
<input type="checkbox"/> 05793	
<input type="checkbox"/> 05794	
<input type="checkbox"/> 05795	
<input type="checkbox"/> 05796	
<input type="checkbox"/> 05797	
<input type="checkbox"/> 05798	
<input type="checkbox"/> 05799	
<input type="checkbox"/> 05800	
<input type="checkbox"/> 05801	
<input type="checkbox"/> 05802	
<input type="checkbox"/> 05803	
<input type="checkbox"/> 05804	
<input type="checkbox"/> 05805	
<input type="checkbox"/> 05806	
<input type="checkbox"/> 05807	
<input type="checkbox"/> 05808	
<input type="checkbox"/> 05809	
<input type="checkbox"/> 05810	
<input type="checkbox"/> 05811	
<input type="checkbox"/> 05812	
<input type="checkbox"/> 05813	
<input type="checkbox"/> 05814	
<input type="checkbox"/> 05815	
<input type="checkbox"/> 05816	
<input type="checkbox"/> 05817	
<input type="checkbox"/> 05818	
<input type="checkbox"/> 05819	
<input type="checkbox"/> 05820	
<input type="checkbox"/> 05821	
<input type="checkbox"/> 05822	
<input type="checkbox"/> 05823	
<input type="checkbox"/> 05824	
<input type="checkbox"/> 05825	
<input type="checkbox"/> 05826	
<input type="checkbox"/> 05827	
<input type="checkbox"/> 05828	
<input type="checkbox"/> 05829	
<input type="checkbox"/> 05830	
<input type="checkbox"/> 05831	
<input type="checkbox"/> 05832	
<input type="checkbox"/> 05833	
<input type="checkbox"/> 05834	
<input type="checkbox"/> 05835	
<input type="checkbox"/> 05836	
<input type="checkbox"/> 05837	
<input type="checkbox"/> 05838	
<input type="checkbox"/> 05839	
<input type="checkbox"/> 05840	
<input type="checkbox"/> 05841	
<input type="checkbox"/> 05842	
<input type="checkbox"/> 05843	
<input type="checkbox"/> 05844	
<input type="checkbox"/> 05845	
<input type="checkbox"/> 05846	
<input type="checkbox"/> 05847	
<input type="checkbox"/> 05848	
<input type="checkbox"/> 05849	
<input type="checkbox"/> 05850	
<input type="checkbox"/> 05851	
<input type="checkbox"/> 05852	
<input type="checkbox"/> 05853	
<input type="checkbox"/> 05854	
<input type="checkbox"/> 05855	
<input type="checkbox"/> 05856	
<input type="checkbox"/> 05857	
<input type="checkbox"/> 05858	
<input type="checkbox"/> 05859	
<input type="checkbox"/> 05860	
<input type="checkbox"/> 05861	
<input type="checkbox"/> 05862	
<input type="checkbox"/> 05863	
<input type="checkbox"/> 05864	
<input type="checkbox"/> 05865	
<input type="checkbox"/> 05866	
<input type="checkbox"/> 05867	
<input type="checkbox"/> 05868	
<input type="checkbox"/> 05869	
<input type="checkbox"/> 05870	
<input type="checkbox"/> 05871	
<input type="checkbox"/> 05872	
<input type="checkbox"/> 05873	
<input type="checkbox"/> 05874	
<input type="checkbox"/> 05875	
<input type="checkbox"/> 05876	
<input type="checkbox"/> 05877	
<input type="checkbox"/> 05878	
<input type="checkbox"/> 05879	
<input type="checkbox"/> 05880	
<input type="checkbox"/> 05881	
<input type="checkbox"/> 05882	
<input type="checkbox"/> 05883	
<input type="checkbox"/> 05884	
<input type="checkbox"/> 05885	
<input type="checkbox"/> 05886	
<input type="checkbox"/> 05887	
<input type="checkbox"/> 05888	
<input type="checkbox"/> 05889	
<input type="checkbox"/> 05890	
<input type="checkbox"/> 05891	
<input type="checkbox"/> 05892	
<input type="checkbox"/> 05893	
<input type="checkbox"/> 05894	
<input type="checkbox"/> 05895	
<input type="checkbox"/> 05896	
<input type="checkbox"/> 05897	
<input type="checkbox"/> 05898	
<input type="checkbox"/> 05899	
<input type="checkbox"/> 05900	
<input type="checkbox"/> 05901	
<input type="checkbox"/> 05902	
<input type="checkbox"/> 05903	
<input type="checkbox"/> 05904	
<input type="checkbox"/> 05905	
<input type="checkbox"/> 05906	
<input type="checkbox"/> 05907	
<input type="checkbox"/> 05908	
<input type="checkbox"/> 05909	
<input type="checkbox"/> 05910	
<input type="checkbox"/> 05911	
<input type="checkbox"/> 05912	
<input type="checkbox"/> 05913	
<input type="checkbox"/> 05914	
<input type="checkbox"/> 05915	
<input type="checkbox"/> 05916	
<input type="checkbox"/> 05917	
<input type="checkbox"/> 05918	
<input type="checkbox"/> 05919	
<input type="checkbox"/> 05920	
<input type="checkbox"/> 05921	
<input type="checkbox"/> 05922	
<input type="checkbox"/> 05923	
<input type="checkbox"/> 05924	
<input type="checkbox"/> 05925	
<input type="checkbox"/> 05926	
<input type="checkbox"/> 05927	
<input type="checkbox"/> 05928	
<input type="checkbox"/> 05929	
<input type="checkbox"/> 05930	
<input type="checkbox"/> 05931	
<input type="checkbox"/> 05932	
<input type="checkbox"/> 05933	
<input type="checkbox"/> 05934	
<input type="checkbox"/> 05935	
<input type="checkbox"/> 05936	
<input type="checkbox"/> 05937	
<input type="checkbox"/> 05938	
<input type="checkbox"/> 05939	
<input type="checkbox"/> 05940	
<input type="checkbox"/>	

Quality Control System

This completes the preparation of the submittal register. These screens are completed for 100% of the items requiring submission. The *ENG Form 4288-R* can be generated and is officially known as the "Submittal Register". The next thing that occurs would be that of selecting one of more of these submittal items and sending them to the Government for approval or record purposes. The transmittal form that will be used is the *ENG Form 4025*.

Sample Submittal Register – ENG Form 4288

SUBMITTAL REGISTER (ER 415-1-10)				TITLE AND LOCATION RMS Training Contract, Schofield Barracks, Oahu, Hawaii				DATE 03 Nov 2009							
				CONTRACTOR RMS Manual		CONTRACT NUMBER W9128A-08-C-0006 NA									
ACTIVITY No.	TRANS-MITTAL No.	ITEM No.	SPEC PARAGRAPH No.	DESCRIPTION OF SUBMITTAL	TYPE OF SUBMITTAL	CLASSIFICATION FIO GA, DA or CR	CONTRACTOR REVIEWER	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION		GOVERNMENT ACTION		
								SUBMIT NEEDED BY	APPROVAL NEEDED BY	MATERIAL NEEDED BY	CODE	CORPS RECEIVED DATE	CODE	CORPS RETURNED DATE	
SECTION - 01320A PROJECT SCHEDULE															
	1	1	01320A 3.4.1	Preliminary Project Schedule	PRECON SUBMTL	GA						A	25 Sep 08	E	09 Dec 08
	1	2	01320A 3.4.2	Initial Project Schedule	PRECON SUBMTL	GA						A	25 Sep 08	E	09 Dec 08
		3	01320A 3.4.4	Periodic Schedule Updates	PRECON SUBMTL	FIO									
		13	01320A 3.4.3	Periodic Schedule Update (February 2009)	CERTIFICATES	GA									
		14	01320A 3.5.2	Narrative Report (February 2009)	CERTIFICATES	GA									
		15	01320A 3.5.4	Schedule Report (February 2009)	CERTIFICATES	GA									
SECTION - 01330 SUBMITTAL PROCEDURES															
		11	01330 1.8	Updated Submittal Register (July 2009)	PRECON SUBMTL	FIO									
SECTION - 04 20 00 MASONRY															
		34	04 20 00 3.1.7.1	Mortar Compressive Strength, 28 days	TEST REPORTS	FIO									
		35	04 20 00 3.17.1	Mortar Compressive Strength, 28 days	TEST REPORTS	FIO									
SECTION - 08 51 13 ALUMINUM WINDOWS															
AOL961	1	10	08 51 13 2.2.2	Weatherstripping	PRODUCT DATA	FIO		23 Jul 09	23 Jul 09	23 Jul 09	A	18 Mar 09	FX	09 Mar 09	
AOL961	1	12	08 51 13 2.1	Structural Calculations for Deflection	DESIGN DATA	FIO		23 Jul 09	23 Jul 09	23 Jul 09	A	18 Mar 09	FX	09 Mar 09	
AOL961	1	13	08 51 13 1.4.3	Design Analysis	DESIGN DATA	FIO		23 Jul 09	23 Jul 09	23 Jul 09	A	18 Mar 09	FX	09 Mar 09	
SECTION - 09 29 00 GYPSUM BOARD															
		13	09 29 00			DA/CR									
SECTION - 09 30 00 CERAMIC TILE AND QUARRY TILE															
		14	09 30 00			DA/CR									
AOD350		15	09 30 00 2.1	Tile, LEED	CLOSEOUT SUBMTL	FIO		22 Sep 09	22 Sep 09	22 Sep 09					
AOD350		16	09 30 00 2.2.5	Reinforcing Wire Fabric, LEED	CLOSEOUT SUBMTL	FIO		22 Sep 09	22 Sep 09	22 Sep 09					
SECTION - 09 65 00 RESILIENT FLOORING															
AOD360		4	09 65 00 2.5	Wall Base Adhesive, Taylor 2040	PRODUCT DATA	FIO		01 Oct 09	16 Oct 09	16 Oct 09					
SECTION - 10 21 13 TOILET COMPARTMENTS															
AOB164		13	10 21 13 2.6	Colors and Finishes	SAMPLES	GA		08 Feb 09	23 Feb 09	23 Feb 09					
AOB164		14	10 21 13 2.2	Partition Panels	SAMPLES	GA		08 Feb 09	23 Feb 09	23 Feb 09					
SECTION - 10 28 13 TOILET ACCESSORIES															
AOB164		3	10 28 13 2.1.2	Finishes	SAMPLES	FIO		23 Feb 09	23 Feb 09	23 Feb 09					
AOB164		4	10 28 13 2.2	Accessory Items	SAMPLES	FIO		23 Feb 09	23 Feb 09	23 Feb 09					
SECTION - 11 42 00 FOOD PREPARATION EQUIPMENT															
CI003	1	4	11 42 00 1.4.1	Item B - Soiled Dish Table	PRODUCT DATA	FIO		18 May 09	18 May 09	18 May 09	A	07 Aug 09	FX	21 Aug 09	
CI003	1	9	11 42 00 1.4.1	Item G - Walk In Refrigerator, Norlake	PRODUCT DATA	FIO		18 May 09	18 May 09	18 May 09	A	07 Aug 09	FX	21 Aug 09	
CI003	1	14	11 42 00 1.4.1	Item L - S/S Prep Table, Eagle Group	PRODUCT DATA	FIO		18 May 09	18 May 09	18 May 09	A	07 Aug 09	FX	21 Aug 09	
CI003	1	16	11 42 00 1.4.1	Item N - Clean Dish Table, Eagle Group	PRODUCT DATA	FIO		18 May 09	18 May 09	18 May 09	A	07 Aug 09	FX	21 Aug 09	

RANGE : OUTSTANDING

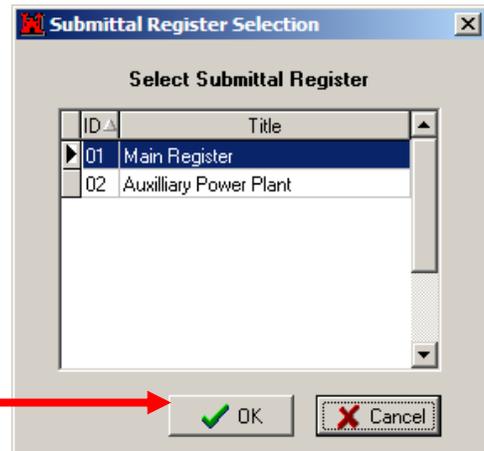
SORT : SECTION & ITEM

Transmittal Processes

Preparing the Transmittal Log (ENG Form 4025)

The form provided by QCS to track submittal items is the *Transmittal Log*. This log will include one or more submittal items for one (and only one) technical specification section. QCS will print this form as part of the Submittal Control process.

If your contract includes more than a single register, you will need to choose which one you want to work with. Select the appropriate register and push the **OK** button.



The Transmittal Log screen separates the transmittals into four different periods. The periods are reflected by the label on the four tabs and are primarily for tracking and reporting purposes:

Prepare Transmittals - Definition

- These are transmittals that have been prepared or are being prepared but, for one reason or another, have not been sent to the Government.

Transmittals in Review - Definition

- These are *Prepared Transmittals* that have been completed by the Contractor and sent to the Government for review and/or information.

Returned from Government - Definition

- These are *Prepared Transmittals* that have been Sent to the Government and the Government has taken approval/disapproval/acknowledgement action on it and returned it to the Contractor.

Completed Transmittals - Definition

- These are transmittals that have been returned by the Government and acknowledged as received by the Contractor.

Contract ID - J3000672 Contract No. - W9128A-08-C-0006 NA

QCS RMS Training Contract

Submittals - Transmittal Log [01 Main Register]

Specification Sections
Submittal Register
Transmittal Log

View Find Eng 4025

Prepare Transmittals Transmittals in Review Returned from Government **Completed Transmittals**

Transmittal Number	Submittal Items included on Transmittal	Contractor Prepared	Government Received	Government Returned	Contractor Received
01012-1	1,2,3,4	07/23/2008	07/23/2008	07/30/2008	07/30/2008
01012-2	5,6,7,8	09/15/2008	09/26/2008	10/03/2008	10/03/2008
01320A-1	1,2	01/15/2009	09/25/2008	12/09/2008	12/09/2008
01320A-2	4,5,6	11/14/2008	11/25/2008	11/26/2008	11/26/2008
01320A-3	7,8,9	12/17/2008	12/17/2008	12/19/2008	01/12/2009
01320A-4	10,11,12	01/23/2009	01/29/2009	01/29/2009	02/03/2009
01320A-5	16,17,18	03/24/2009	03/26/2009	03/26/2009	05/27/2009
01320A-6	19,20,21	04/21/2009	04/23/2009	04/23/2009	04/27/2009
01320A-7	22,23,24	05/18/2009	05/19/2009	05/19/2009	05/19/2009
01355A-1	1	07/23/2008	07/07/2008	07/22/2008	07/22/2008
01355A-1.1	1	09/24/2008	09/25/2008	10/08/2008	10/08/2008
01355A-1.2	1	11/14/2008	11/14/2008	11/14/2008	11/14/2008
01355A-2	2	09/15/2008	09/24/2008	09/26/2008	09/26/2008
01451A-1	1	07/23/2008	07/27/2008	07/15/2008	07/15/2008
01451A-2	2	07/23/2008	07/23/2008	08/06/2008	08/06/2008
01451A-2.1	2	01/16/2009	01/20/2009	01/21/2009	01/23/2009

Submittal Items included on Transmittal 01012-1

Item	Primary Contractor Reviewer	QC Code	Variation	QA Code
1		A		F
2				
3				

Display Items
Display Remarks

Record 1 of 225

The **ENG Form 4025**, Transmittal Form, can be viewed directly from this screen by simply highlighting the desired transmittal and clicking on this button.

At the bottom of each screen you have the option of displaying the **Item Numbers** on the Transmittal, or the **Remarks** associated with the Transmittal.

Prepare Transmittals

The **Transmittal Log** is accessed from the main **CONTRACT MENU / ADMINISTRATION / Transmittal Log**, as shown on the following screen. You can **EDIT** an existing *Transmittal* or **ADD** a new one. For our purposes, push the **ADD** button.

The screenshot shows the QCS software interface. The main window is titled "Submittals - Transmittal Log [01 Main Register]". It has a menu bar with "Add", "Edit", "Delete", and "Find". Below the menu bar, there are tabs for "Prepare Transmittals", "Transmittals in Review", "Returned from Government", and "Completed Transmittals". The "Prepare Transmittals" tab is active, showing a table with columns for "Transmittal Number", "Submittal Items included on Transmittal", "Contractor Prepared", and "Contractor Sent".

An "Add Transmittal" dialog box is open, displaying a list of "Specification Sections with Outstanding Submittals". The list includes the following items:

Section	Description
01320A	PROJECT SCHEDULE
01330	SUBMITTAL PROCEDURES
04 20 00	MASONRY
08 51 13	ALUMINUM WINDOWS
09 29 00	GYPSUM BOARD
09 30 00	CERAMIC TILE AND QUARRY TILE
09 65 00	RESILIENT FLOORING
10 21 13	TOILET COMPARTMENTS
10 28 13	TOILET ACCESSORIES
11 42 00	FOOD PREPARATION EQUIPMENT
21 13 13.00	WET PIPE SPRINKLER SYSTEM, FIRE PROTECTION
21 21 03.00	WET CHEMICAL FIRE EXTINGUISHING SYSTEM
23 05 93.00	TESTING ADJUSTING & BALANCING OF HVAC SYSTEM
23 08 00.00	COMMISSIONING OF HVAC SYSTEMS
23 23 00	REFRIGERANT PIPING
23 36 00	AIR TERMINAL UNITS
27 05 14.00	CABLE TV PREMISES DISTRIBUTION SYSTEM
27 21 00.00	INTERCOMMUNICATION SYSTEM

The dialog box also has a checkbox for "All Sections" and buttons for "Cancel" and "Next >".

The default screen will list all sections that include one or more **Outstanding Submittal items** to be processed.

You may need to provide a transmittal for an item already submitted and approved, in which case you may select the **All Sections** box at the top right of the screen. In that case, ALL sections will be shown on the list, including completed submittal items.

Choose the desired item from the listing and push the **Next** button on the lower right of the window.

Quality Control System

The Next window shows all **Outstanding Submittals** from which to choose. You also have the option to show ALL submittal items if desired. You simply check one or more items that you want to include on the transmittal form. RMS will determine if the item is being submitted for the first time, or if it is a re-submittal of a previous item, and provide the numbering required to be used by the program.

Item No.	Description	SD No.	Office	Classification	Last Transmittal	QA Code
<input checked="" type="checkbox"/>	3 Finishes	04	J3000003	FID		
<input type="checkbox"/>	4 Accessory Items	04	J3000003	FID		

If the first item selected is a NEW submittal, this screen will appear.

If the first item selected is a RESUBMITTAL, this screen appears.

In both cases above, the Transmittal Number can be changed. The first set of numbers, that represent the specification section, cannot be changed.

This screen is used to complete the preparation of the transmittal package.

Transmittal No [10 28 13-1.1] Resubmittal of Transmi 13-1

Date Prepared: 11/03/2009 Completed - Ready to send to Government

Date Received by Government: Review Due: Date Returned To Contractor:

Select Transmittal To: Review Office: Schofield Barracks Area Office

Item	Description	Primary Contractor Reviewer	No. of Copies	Classification	Variation	QC Code
1	Finishes		0	FIO	<input type="checkbox"/>	A

Remarks to Government Previous Remarks to Government Government Remarks

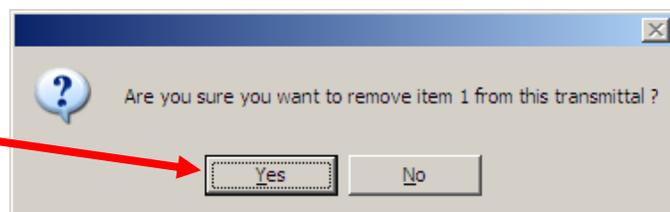
Remarks from Contractor to Government

A. Date Prepared. This is the default date entered. It may be changed if required.

B. Select. If you have an item that was inadvertently missed on the list, the Select button will return you to the screen showing **Outstanding Submittals** and you can add it at this point.

C. Edit (Submittal Item). This selection will take you directly to the Submittal Item screen, on which you may make changes if required. For example, you may need to change the **Contractor Primary Reviewer**, or change the **Activity** the item is linked to.

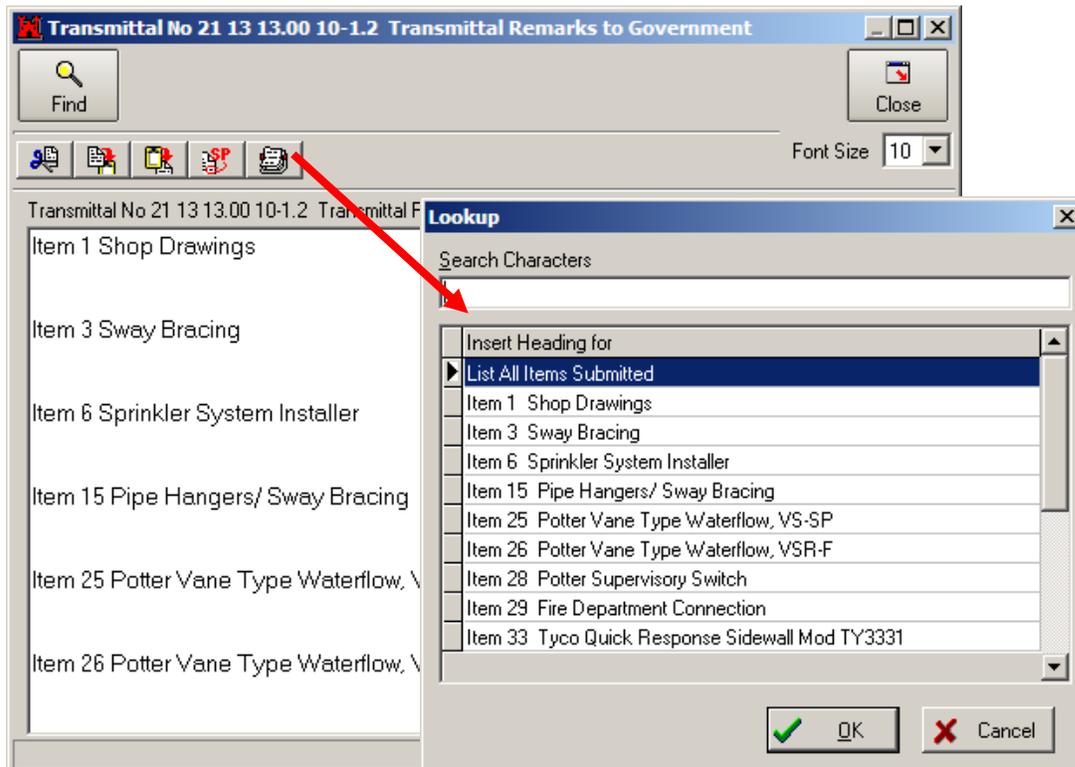
D. Remove. You may remove an item on the list if required.



E. Edit (Remarks to Government). This selection not only gives you the typical Windows © features of **Cut**, **Copy**, **Paste**, and **Spell Check**, but also provides a **Lookup** that will list all items that have been selected for this Transmittal. You can use these as a “header” for any comments you wish to make.

To enter **Transmittal Remarks to Government**, you may type directly in the field at the bottom of the screen or, alternatively, push the **EDIT** button for a larger area in which to type.

Lookup Window for Submittal Items on the Transmittal



Transmittal No [21 13 13.00 10-1.2] Resubmittal of Transmittal No 21 13 13.00 10-1.1

Date Prepared: 11/03/2009 Completed, Ready to send to Government

Date Received by Government: Review Date: Date Returned To Contractor:

Send Transmittal To: Review Office: Schofield Barracks Area Office

Item	Description	Primary Contractor Reviewer	No. of Copies	Classification	Variation	QC Code
1	Shop Drawings		0	GA	<input type="checkbox"/>	A
3	Sway Bracing		0	GA	<input type="checkbox"/>	A
6	Sprinkler System Installer		0	GA	<input type="checkbox"/>	A
15	Pipe Hangers/ Sway Bracing		0	GA	<input type="checkbox"/>	A
25	Potter Vane Type Waterflow, VS-SP		0	GA	<input type="checkbox"/>	A

Remarks to Government: Previous Remarks to Government:

Remarks from Contractor to Government:

Item 1 Shop Drawings

Item 3 Sway Bracing

Item 6 Sprinkler System Installer

Item 15 Pipe Hangers/ Sway Bracing

F. No. of Copies. Indicate the number of copies you are providing to the Government for this Transmittal.

G. Classification. This column advises that the Submittal Item is labeled “For Information Only” (FIO) or, for “Government Action” (GA).

H. Variation. If a Variation is intended by this Transmittal is must be indicated here. If a Contractor submits an item that varies from the specified product or condition, he is responsible to point out that **Variation** and provide an explanation of the **Variance** apart from a simple CHECKMARK. **If an item does vary, and the Contractor has explained it, approval of the item by the Government constitutes an acceptance of the variance.** It could be that a modification to the contract (credit or debit) is required if the variation is considered significant. Therefore, the Government should ALWAYS carefully review any variance during the submittal process.

- I. QC Code.** Indicate the “grade” given by the Quality Control Manager for this item. The options are shown in the lookup, as follows.

The screenshot shows a 'Lookup' dialog box with a search field and a table of QC codes. A red arrow points to the first row of the table, which is highlighted in blue.

Code	Description	Status
A	Approved as submitted	Completed
B	Approved, except as noted on drawings	Completed
C	Approved, resubmission required	Resubmit
D	Returned by correspondence	Completed
E	Disapproved (See attached)	Resubmit
F	Receipt acknowledged	Completed
G	Other (Specify)	Resubmit
X	Receipt acknowledged, does not comply	Resubmit
R	Acceptable for Release for Construction.	Completed

Search Characters:

Search By:

Buttons:

Duh! The QC Code Isn't ALWAYS an "A"!!!

There are Prime Contractor's that do submit Transmittals with other than the "A" Code. Many Contractors use the code "B" when something requires clarification. Other Prime Contractors have also submitted a code "E" for an item from a Subcontractor and the Prime desires the Government to be aware that they are grading the submittal accurately and seeking correction. This is especially useful for long lead items.

- J. Completed - Ready to Send to Government.** When you have completed all action on this screen, indicate you are complete by checking this box. The Transmittal will then be transferred to the Government RMS program with your next Export.

Transmittals in Review

Prepared Transmittals that have been completed by the Contractor and sent to the Government are reflected on this screen. Simply select the date sent.

Contract ID - J3000672 Contract No. - W9128A-08-C-0006 NA

QCS RMS Training Contract

File Options Help

Close Contract Administration QC Submittals Import / Export Contract Reports Exit QCS

Submittals - Transmittal Log [01 Main Register]

View Find Eng 4025

Prepare Transmittals Transmittals in Review Returned from Government Completed Transmittals

Transmittal Number	Submittal Items included on Transmittal	Contractor Prepared	Contractor Sent	Government Received
01012-8	9,10,11	06/10/2009	06/10/2009	06/11/2009
01320A-11	34,35,36	09/14/2009	09/14/2009	10/01/2009
07 84 00-1	1,2,3,4,5,6	09/22/2009	09/24/2009	10/01/2009
09 51 00-1.1	11	09/18/2009	09/18/2009	10/01/2009
09 51 00-2	12,13,14	09/18/2009	09/18/2009	10/01/2009
10 21 13-2	3,15,16,17,18,19	06/05/2009	06/10/2009	06/11/2009
10 51 14-2	11	06/10/2009	06/10/2009	06/11/2009
22 00 00-3.1	6,7,8	06/10/2009	06/10/2009	06/11/2009
23 08 00.00...	1	07/22/2009	07/22/2009	08/06/2009
27 10 00-1.1	1,2,3,4,5,6,7,8,9,10,11,12	09/23/2009	09/24/2009	10/01/2009

Submittal Items included on Transmittal 01012-8

Display Items
 Display Remarks

Item	Primary Contractor Reviewer	QC Code	Variation	QA Code
9		A	<input type="checkbox"/>	
10		A	<input type="checkbox"/>	
11		A	<input type="checkbox"/>	

Record 1 of 10

At the bottom of each screen you have the option to Display either the Item Numbers or the Remarks associated with each of the Transmittals.

Returned from Government

Transmittals that have been sent to the Government and the Government has taken approval/disapproval action on it and returned it to the Contractor is reflected on this tab. The dates are automatically imported electronically with the next import from the Government RMS program. Enter the date you received the Transmittal from the Government in this block.

Contract ID - J3000672 Contract No. - W9128A-08-C-0006 NA

QCS RMS Training Contract

Close Contract Administration QC Submittals Import / Export Contract Reports Exit QCS

Submittals - Transmittal Log [01 Main Register]

Specification Sections
Submittal Register
Transmittal Log

View Find Eng 4025

Prepare Transmittals Transmittals in Review **Returned from Government** Completed Transmittals

Transmittal Number	Submittal Items included on Transmittal	Contractor Prepared	Government Received	Government Returned	Contractor Received
01012-3	9,10,11	12/08/2008	03/09/2009	04/01/2009	
01012-4	12,13,14,15,16	02/04/2009	02/19/2009	04/02/2009	
01012-6	17,18	04/23/2009	05/15/2009	05/27/2009	
01012-7	19,20	05/08/2009	05/15/2009	05/27/2009	
01320A-8	25,26,27	06/12/2009	06/23/2009	06/23/2009	
01320A-9	28,29,30	07/20/2009	07/22/2009	07/22/2009	
01320A-10	31,32,33	08/14/2009	08/18/2009	08/18/2009	
01330-1	1	05/19/2009	06/05/2009	06/05/2009	
01330-2	2	06/12/2009	06/23/2009	06/23/2009	
01330-11	12	08/14/2009	08/18/2009	08/14/2009	
01330-12	3	11/25/2008	11/25/2008	11/25/2008	
01330-13	4	12/17/2008	12/17/2008	12/17/2008	
01330-14	5	01/29/2009	01/29/2009	01/29/2009	
01330-15	6	02/23/2009	02/23/2009	02/23/2009	
01330-16	7	03/24/2009	03/24/2009	03/24/2009	
01330-17	8	04/21/2009	04/21/2009	04/21/2009	

Submittal Items included on Transmittal 01012-3

Item	Primary Contractor Reviewer	QC Code	Variation	QA Code
9		A	<input type="checkbox"/>	A
10		A	<input type="checkbox"/>	A
11		A	<input type="checkbox"/>	A

Record 1 of 88

Display Items Display Remarks

At the bottom of each screen you have the option to Display either the **Item Numbers** or the **Remarks** associated with each of the Transmittals.

Completed Transmittals

Transmittals that have been returned by the Government and acknowledged as received by the Contractor are reflected on this screen. The date field is to indicate the completed transmittal was received by the Contractor.

Submittals - Transmittal Log [01 Main Register]

View Find Eng 4025

Prepare Transmittals Transmittals in Review Returned from Government **Completed Transmittals**

Transmittal Number	Submittal Items included on Transmittal	Contractor Prepared	Government Received	Government Returned	Contractor Received
01012-1	1,2,3,4	07/23/2008	07/23/2008	07/30/2008	07/30/2008
01012-2	5,6,7,8	09/15/2008	09/26/2008	10/03/2008	10/03/2008
01320A-1	1,2	09/15/2008	09/25/2008	12/09/2008	12/09/2008
01320A-2	4,5,6	11/14/2008	11/25/2008	11/26/2008	11/26/2008
01320A-3	7,8,9	12/17/2008	12/17/2008	12/19/2008	01/12/2009
01320A-4	10,11,12	01/29/2009	01/29/2009	01/29/2009	02/03/2009
01320A-5	16,17,18	03/24/2009	03/26/2009	03/26/2009	05/27/2009
01320A-6	19,20,21	04/21/2009	04/23/2009	04/23/2009	04/27/2009
01320A-7	22,23,24	05/18/2009	05/19/2009	05/19/2009	05/19/2009
01355A-1	1	07/23/2008	07/07/2008	07/22/2008	07/22/2008
01355A-1.1	1	09/24/2008	09/25/2008	10/08/2008	10/08/2008
01355A-1.2	1	11/14/2008	11/14/2008	11/14/2008	11/14/2008
01355A-2	2	09/15/2008	09/24/2008	09/26/2008	09/26/2008
01451A-1	1	07/23/2008	06/27/2008	07/15/2008	07/15/2008
01451A-2	2	07/23/2008	07/23/2008	08/06/2008	08/06/2008
01451A-2.1	2	01/16/2009	01/20/2009	01/21/2009	01/23/2009

Submittal Items included on Transmittal 01012-1

Display Items Display Remarks

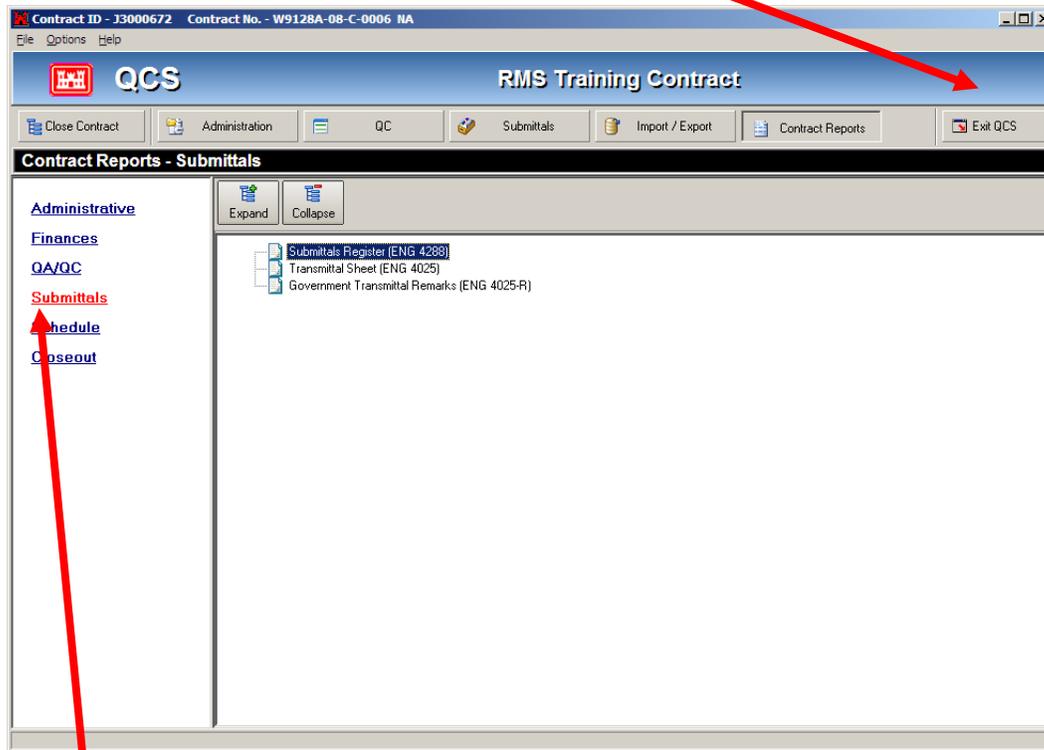
Item	Primary Contractor Reviewer	QC Code	Variation	QA Code
1		A	<input type="checkbox"/>	F
2		A	<input type="checkbox"/>	F
3		A	<input type="checkbox"/>	F

Record 1 of 225

At the bottom of each screen you have the option to Display either the **Item Numbers** or the **Remarks** associated with each of the Transmittals.

Reports for Transmittals

The **REPORTS** button is used to preview and print the Submittal Register (*ENG Form 4288*) and Transmittal Form (*ENG Form 4025*).



Highlight **Submittals** on the left of the window and preview the forms. The following pages show the steps necessary to retrieve the reports for this sample contract.

Selecting the Submittal Register Report

There are many combinations of reports you can select, depending on your indication of the various status, ranges and sorts. We will select the combination shown below (default), and push the **Preview** button at the top of the window.

Submittal Register (ENG 4288) Report Options

Preview Print Close

 **Submittal Register (ENG 4288)**

Status - All
Range - All Submittals
Sort - Section & Item No.

Status	<input checked="" type="radio"/> All	<input type="checkbox"/> Include Transmittal History
	<input type="radio"/> Outstanding	<input type="radio"/> In Review
	<input type="radio"/> Outstanding Overdue	<input type="radio"/> In Review Overdue
	<input type="radio"/> Outstanding Due in Next <input type="text" value=""/> Days	<input type="radio"/> Completed
Range	<input checked="" type="radio"/> All Submittals	<input type="radio"/> Selected Activity(s)
	<input type="radio"/> Selected Reviewer(s)	<input type="radio"/> Selected Contractor(s)
	<input type="radio"/> Selected Feature(s)	<input type="radio"/> Selected Section(s)
Sort	<input checked="" type="radio"/> Section & Item No.	<input type="radio"/> Activity
	<input type="radio"/> Reviewer	<input type="radio"/> Need Submit Date
	<input type="radio"/> Contractor	<input type="radio"/> Need Approval Date
	<input type="radio"/> Feature	

Quality Control System

Sample Register Report

SUBMITTAL REGISTER (ER 415-1-10)				TITLE AND LOCATION RMS Training Contract, Schofield Barracks, Oahu, Hawaii				DATE 03 Nov 2009						
				CONTRACTOR RMS Manual				CONTRACT NUMBER W9128A-08-C-0006 NA						
ACTIVITY No.	TRANS. MITTAL No.	ITEM No.	SPEC PARAGRAPH No.	DESCRIPTION OF SUBMITTAL	TYPE OF SUBMITTAL	CLASSIFICATION FIO GA, DA or CR	CONTRACTOR REVIEWER	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION		GOVERNMENT ACTION	
								SUBMIT NEEDED BY	APPROVAL NEEDED BY	MATERIAL NEEDED BY	CODE	CORPS RECEIVED DATE	CODE	CORPS RETURNED DATE
SECTION - 01012 DESIGN AFTER AWARD														
0001	1	1	01012 3.5.1	Drawings, Interim Design	PRECON SUBMTL	CR					A	23 Jul 08	F	30 Jul 08
0001	1	2	01012 3.5.2	Design Analysis, Interim Design	DESIGN DATA	CR					A	23 Jul 08	F	30 Jul 08
0001	1	3	01012 3.5.3	Specifications, Interim Design	PRECON SUBMTL	CR					A	23 Jul 08	F	30 Jul 08
0001	1	4	01012 3.9.1	Electronic Files (CDs)	PRECON SUBMTL	CR					A	23 Jul 08	F	30 Jul 08
A0B217	2	5	01012 3.5.1	Drawings, 100% Design	PRECON SUBMTL	GA		20 Aug 08	04 Sep 08	04 Sep 08	A	26 Sep 08	A	03 Oct 08
A0B217	2	6	01012 3.5.2	Design Analysis, 100% Design	DESIGN DATA	GA		20 Aug 08	04 Sep 08	04 Sep 08	A	26 Sep 08	A	03 Oct 08
A0B217	2	7	01012 3.5.3	Specifications, 100% Design	PRECON SUBMTL	GA		20 Aug 08	04 Sep 08	04 Sep 08	A	26 Sep 08	A	03 Oct 08
A0B217	2	8	01012 3.9.1	Electronic Files (CDs)	PRECON SUBMTL	GA		20 Aug 08	04 Sep 08	04 Sep 08	A	26 Sep 08	A	03 Oct 08
A0B224	8	9	01012 3.7.1	Final Bldg Design Complete Const Docs.	PRECON SUBMTL	GA		02 Feb 09	17 Feb 09	17 Feb 09	A	11 Jun 09		
A0B224	8	10	01012 3.7.3	Specifications, Final	PRECON SUBMTL	GA		02 Feb 09	17 Feb 09	17 Feb 09	A	11 Jun 09		
A0B224	8	11	01012 3.7.1.2	Electronic Files, Final Design (CD)	PRECON SUBMTL	GA		02 Feb 09	17 Feb 09	17 Feb 09	A	11 Jun 09		
A0B224	4	12	01012 3.5.1	Drawings, Final Design (Full Size)	PRECON SUBMTL	GA		02 Feb 09	17 Feb 09	17 Feb 09	A	19 Feb 09	A	02 Apr 09
A0B224	4	13	01012 3.5.1	Drawings, Final Design (Half Size)	PRECON SUBMTL	GA		02 Feb 09	17 Feb 09	17 Feb 09	A	19 Feb 09	A	02 Apr 09
A0B224	4	14	01012 3.5.2	Design Analysis, Final Design	PRECON SUBMTL	GA		02 Feb 09	17 Feb 09	17 Feb 09	A	19 Feb 09	A	02 Apr 09
A0B224	4	15	01012 3.5.3	Specifications, Final Design	PRECON SUBMTL	GA		02 Feb 09	17 Feb 09	17 Feb 09	A	19 Feb 09	A	02 Apr 09
A0B224	4	16	01012 3.9.1	Electronic File (CD's), Final Design	PRECON SUBMTL	GA		02 Feb 09	17 Feb 09	17 Feb 09	A	19 Feb 09	A	02 Apr 09
	6	17	01012 3.5.1	Final Design, Revision "a" (Full Size)	PRECON SUBMTL	GA		12 Mar 09	12 Mar 09	12 Mar 09	A	15 May 09	A	27 May 09
	6	18	01012 3.5.1	Final Design, Revision "a" (Half Size)	PRECON SUBMTL	GA					A	15 May 09	A	27 May 09
	7	19	01012 3.5.1	Final Design, Revision "b" (Full Size)	PRECON SUBMTL	GA					A	15 May 09	A	27 May 09
	7	20	01012 3.5.1	Final Design, Revision "b" (Half Size)	PRECON SUBMTL	GA					A	15 May 09	A	27 May 09
SECTION - 01320A PROJECT SCHEDULE														
	1	1	01320A 3.4.1	Preliminary Project Schedule	PRECON SUBMTL	GA					A	25 Sep 08	E	09 Dec 08
	1	2	01320A 3.4.2	Initial Project Schedule	PRECON SUBMTL	GA					A	25 Sep 08	E	09 Dec 08
	3	3	01320A 3.4.4	Periodic Schedule Updates	PRECON SUBMTL	FIO								
	2	4	01320A 3.2	Pay Request No. 2	CERTIFICATES	GA					A	25 Nov 08	A	26 Nov 08
	2	5	01320A 3.5.1	Monthly Periodic Schedule Update, Nov 08	CERTIFICATES	GA					A	25 Nov 08	A	26 Nov 08
	2	6	01320A 3.5.2	Monthly Project Narrative Report, Nov 08	CERTIFICATES	GA					A	25 Nov 08	A	26 Nov 08
	3	7	01320A 3.2	Pay Request No. 3	CERTIFICATES	GA					A	17 Dec 08	A	19 Dec 08
	3	8	01320A 3.5.1	Monthly Periodic Schedule Update, Dec 08	CERTIFICATES	GA					A	17 Dec 08	A	19 Dec 08
	3	9	01320A 3.5.2	Monthly Project Narrative Report, Dec 08	CERTIFICATES	GA					A	17 Dec 08	A	19 Dec 08
	4	10	01320A 3.2	Pay Request No. 4	CERTIFICATES	GA					A	29 Jan 09	A	29 Jan 09
	4	11	01320A 3.5.1	Monthly Periodic Schedule Update, Jan 09	CERTIFICATES	GA					A	29 Jan 09	A	29 Jan 09
	4	12	01320A 3.5.2	Monthly Project Narrative Report, Jan 09	CERTIFICATES	GA					A	29 Jan 09	A	29 Jan 09
	13	13	01320A 3.4.3	Periodic Schedule Update (February 2009)	CERTIFICATES	GA								

RANGE : ALL

REGISTER : MAIN REGISTER

SORT : SECTION & ITEM

Selecting the Transmittal Form

For this report, you select the individual ENG Form 4025 you wish to preview or print. You may also use the [Shift] and [Control] keys to select multiple transmittals. We will select the item shown below and push the **Preview** button at the top of the window.

The screenshot shows the QCS RMS Training Contract software interface. The main window displays a tree view of submittals under the 'Contract Reports - Submittals' section. A red arrow points to the 'Transmittal Sheet (ENG 4025-R)' item. Below this, the 'ENG4025 Remarks Report Options' dialog box is open, showing a printer icon and the title 'Transmittal Sheet (ENG 4025-R)'. The dialog includes a 'Range' column and a table of transmittals.

Range	Transmittal Number	Date In	Date Out	Remarks
	01012-1	07/23/2008	07/30/2008	
	01012-2	09/26/2008	10/03/2008	
	01012-3	03/09/2009	04/01/2009	1. Please see the attached distribution
	01012-4	02/19/2009	04/02/2009	
	01012-6	05/15/2009	05/27/2009	
	01012-7	05/15/2009	05/27/2009	
	01012-8	06/11/2009		
	01320A-1	0		
	01320A-2	1		
	01320A-3	1		
	01320A-4	0		
	01320A-5	03/26/2009	03/26/2009	Submittal Includes:

You can choose to review multiple Transmittals by using the <SHIFT>/<CTRL> keys.

Use shift/ctrl to select multiple Transmittals

Sample ENG Form 4025 for Transmittal Form

TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR MANUFACTURER'S CERTIFICATES OF COMPLIANCE <small>(Read instructions on the reverse side prior to initiating this form)</small>				DATE 07/23/2008		TRANSMITTAL NO. 01012-1		
SECTION I - REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS <small>(This section will be initiated by the contractor)</small>								
TO: Schofield Barracks Area Office US Army Engineer District, Honolulu Bldg. 230 Fort Shafter, HI 96858-5440			FROM: RMS Manual 636 Laumaka Street Honolulu, HI 96819		CONTRACT NO. W9128A-08-C-0006 NA		CHECK ONE: <input checked="" type="checkbox"/> THIS IS A NEW TRANSMITTAL <input type="checkbox"/> THIS IS A RESUBMITTAL OF TRANSMITTAL	
SPECIFICATION SEC. NO. (Cover only one section with each transmittal) 01012			PROJECT TITLE AND LOCATION 01-Main Register RMS Training Contract Schofield Barracks, Oahu, Haw aii			CHECK ONE: THIS TRANSMITTAL IS FOR <input type="checkbox"/> FIO <input type="checkbox"/> GA <input type="checkbox"/> DA <input checked="" type="checkbox"/> CR		
ITEM NO.	DESCRIPTION OF ITEM SUBMITTED <small>(Type size, model number/etc.)</small>	MFG OR CONTR. CAT., CURVE DRAWING OR BROCHURE NO. <small>(See instruction no. 8)</small>	NO. OF COPIES	CONTRACT REFERENCE DOCUMENT		FOR CONTRACTOR USE CODE	VARIATION <small>(See Instruction No. 6)</small>	FOR CE USE CODE
				SPEC. PARA. NO.	DRAWING SHEET NO.			
a.	b.	c.	d.	e.	f.	g.	h.	i.
1	Drawings, Interim Design	PRECON SUBMTL	29	3.5.1		A	N	F
2	Design Analysis, Interim Design	DESIGN DATA	22	3.5.2		A	N	F
3	Specifications, Interim Design	PRECON SUBMTL	22	3.5.3		A	N	F
4	Electronic Files (CDs)	PRECON SUBMTL	17	3.9.1		A	N	F
REMARKS						I certify that the above submitted items have been reviewed in detail and are correct and in the strict conformance with the contract drawings and specifications except as otherwise stated. _____ NAME AND SIGNATURE OF CONTRACTOR		
SECTION II - APPROVAL ACTION								
ENCLOSURES RETURNED (List by item No.)			NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY				DATE	



ENG Form 4025-R is formally titled: "TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR MANUFACTURER'S CERTIFICATES OF COMPLIANCE"

Recap

Why would we use the Submittal feature of QCS, or what will we have gained if we do use it? What good is all this stuff anyway?

These are questions you may hear occasionally from some of our less enthusiastic CQC staff, and even the Government QA staff. Here are some items that QCS and RMS will help in this process to make our work easier and are a recap of what has already been discussed in this chapter.

Identify Requirements (Register)

1. The Designer of the project is responsible to create the initial Submittal Register (Eng Form 4288). The Designer may be an independent A/E, Government Designer, or a Contractor (Design-Build).
2. Submittals should be tailored to fit the requirements of the project and should be limited to those necessary for adequate quality control.
3. The importance of an item in the project should be one of the primary factors in determining if a formal submittal for the item should be required.

Electronic Transfer of Data (SpecsIntact)

1. Corps of Engineers Guide Specifications is designed to be used with SpecsIntact, a personal computer-based system for the production of contract specifications.
2. SpecsIntact is an effective tool that has been evolving and improving since Headquarters adopted the system in 1987 as the official means for producing and maintaining our guide specifications.
3. The use of SpecsIntact is mandatory for production of contract specifications for all FY 00 and future projects (Civil and Military). The UFGS (Unified Facilities Guide specifications) is required by regulation. (The Under Secretary of Defense, memorandum of 29 May 2002.
<http://www.hnd.usace.army.mil/techinfo/ufgs/ufgsdod.pdf>
4. The SPECSINTACT program is available on the Internet at:
<http://si.ksc.nasa.gov/specsintact/index.asp>

It should also be noted that the QCS (and the Government RMS) program will directly import a submittal register from an Excel spreadsheet.

One of the most important tasks, and one that should not be overlooked, is to ensure that the Designer uses the proper Specification Section Number and Title as listed in the latest Index for UFGS Guide Specifications. The index is found at "**UFGS Contents**":

<http://www.wbdg.org/ccb/DOD/UFGS/ufigsinx.pdf>

Scheduling (timely flow of materials)

(It is a Contract Requirement!)

1. CEGS 01330, paragraph 3.2: "Submittal Register. The approved submittal register will become the scheduling document and will be used to control submittals throughout the life of the contract".
2. CEGS 01330, paragraph 3.2: "Submittal Register. The submittal register and the progress schedules shall be coordinated".

Review and Approval (tracking)

(Contractors have an Incentive!)

1. CEGS 01330, paragraph 1.5: "Withholding of Payment. Payment for materials incorporated in the work will not be made if required approvals have not been obtained".
2. CEGS 01330, paragraph 3.2: "Submittal Register. The Contractor shall keep the register up-to-date and submit it to the Government together with the monthly payment request".

Transfer Records to Customer

1. ER 415-345-38, "Transfer and Warranties", is the basic regulation which prescribes USACE policy and procedures for transfer of completed construction projects.
2. Transfer of construction to the Using Service will be simultaneous with the acceptance of the construction from the Contractor.

Once you have completed one or more transmittals, export the QCS program to the Government RMS program. The Government will annotate their approval or disapproval actions and export back to the QCS program. This will refresh the QCS data with the latest actions on all items.

Chapter 5 - Schedules & the SDEF

What you will learn from this Chapter

Contractor Schedule Requirements

- Overview
- Far Clause 52.236-15
- Gantt Chart
- Network Analysis System (NAS)
- Standard Data Exchange Format (SDEF)
- RMS, QCS and the SDEF (CEGS 01312)
- Contract Specified Project Schedule (CEGS 01320)
- Activity Schedule
- Feature Schedule

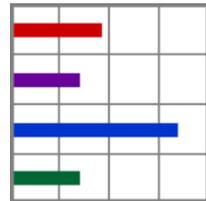


Schedules and the SDEF



This chapter furnishes information on **Schedules** and the **Standard Data Exchange Format** and provides instructions for utilizing the associated modules of the QCS program.

The constraints of cost, time, and the environment leave little room for perfect contract documents or perfect construction conditions. The Contractor is committed to build the project within the constraints of budget, the contract documents, and good construction practices. Any variance from these constraints will cause variations in time and cost. As such, remedies will be sought in the form of changes and, perhaps, claims. The administration of claims and changes is time-consuming, to say the least.



An active role in claim and change management is mandatory to mitigate costs of the Government and the Contractor. Organized procedures, such as schedules, form the backbone of a strong and effective Quality Control and Quality Assurance organization.

Identification of a potential problem is the first and most important phase of the entire change or claim management process. One cannot remedy a problem unless it is known to exist. Very often, identification is automatic, such as a change order initiated by the Government. Most claims situations, however, arise out of subtle differences in field conditions, from jobsite delays or as a result of differences in contract interpretation. In these and all other instances, a problem situation must be recognized and identified as soon as it occurs.

The Critical Path Method (CPM) is a planning and scheduling method that utilizes a network diagram (graphical plot) to show all job operations in a sequential fashion necessary for orderly completion. It is a device utilized by contractors to plan, schedule, coordinate and control work activities on projects in such a manner to enable the contract to be completed in the quickest and most economical fashion possible.

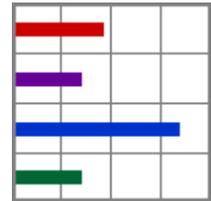
Engineering author Richard H. Clough ** best summarizes what the network diagram does and its advantages: "The network diagram portrays, in simple and direct form, the complex time relationships and constraints among the various segments of a project. It has the tremendous advantage of easily accommodating modifications, refinements, and corrections. It provides the project manager with the following invaluable time-control devices:

1. Provides a means to predict with reasonable accuracy the time required for overall project completion.
2. Make Possible the identification of those activities whose expedient execution is crucial to timely project completion. (These are called critical activities, hence the name of the method.)

3. Serves as a guide for project shortening when the completion date must be advanced.
4. Provides a basis for the scheduling of subcontractors and material deliveries to the job site.
5. Serves as a basis for balanced scheduling of manpower and construction equipment on the project.
6. Makes possible the rapid evaluation of alternative construction methods.
7. Serves as a convenient vehicle for progress reporting and recording.
8. Affords a basis for evaluation the time effects of construction changes and delays.”

(** Richard H. Clough, *Construction Project Management* (New York, John Wiley & Sons, Inc., 1972), pp. 7-8.)

CPM schedules are necessarily grounded in pragmatic considerations that govern our activity in the real world of construction. We need to evaluate the CPM with these basic principles in mind:



- A. A schedule is only as good as the information on which it is based.
- B. In a typical construction contract, the work sequences of various trades occur over and over again throughout the contract. Follow-on trades do not wait for the initial trades to complete their work for the entire building prior to commencing the follow-on work; different areas of the project are at different stages of completion within the sequence of work.
- C. Most of our contracts will have essential installations that must receive extra attention even when they are not on the critical path.
- D. Timely completion requires the establishment of flow and momentum. The speed of the installation of various trades is substantially affected by the rhythm of a project. When a smooth flow of the work is scheduled or established, the majority of the activities will probably be very close to the critical path (in terms of float time) since these activities closely precede or follow the activities on the critical path.

FAR Clause 52.236-15

Schedules for Construction Contracts

The Federal Acquisition Regulations (FAR) allows Government contracts to include the aforementioned Clause under the following conditions:

1. Fixed-Price construction contract
2. Contract amount expected to exceed the simplified acquisition threshold
3. Period of actual work performance exceed 60 days
4. May be used with contracts of less than 60 days if an unusual situation exists that warrants imposition of a schedule

(http://farsite.hill.af.mil/reghtml/regs/far2afmcfars/fardfars/far/52_232.htm#P31_3456)



The Clause is TYPICALLY NOT BE USED in the same contract with clauses covering other management approaches for ensuring that contractor makes adequate progress.

The Clause is divided into three (3) basic parts:

1. Submission of schedule within five days after work commences.

- The Contracting Officer may insert another period of submission.
- The schedule must be practicable showing the order in which the Contractor proposes to perform the work.
- Must include the start and finish dates of salient features of the work (including acquiring materials, plant, and equipment).
- In the form of a progress chart of suitable scale to indicate the percentage of work scheduled for completion by any given date during the period.
- If the Contractor fails to submit a schedule, progress payment may be withheld.

2. Updating the actual progress on the chart.

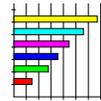
- If Contractor falls behind his approved schedule he shall take steps necessary to improve progress, without additional cost to the Government.
- Contractor may be directed to increase the number of shifts, overtime operations, days of work, and/or the amount of construction plant.
- Contractor may be required to provide supplementary schedule or schedules in chart form to demonstrate how the approved rate of progress will be regained.

3. Remedy for lack of compliance.

- Determination may be made by the Government that the Contractor is not prosecuting the work with sufficient diligence to ensure completion within the time specified in the contract.
- Failure to comply may result in termination.

Gantt Chart

The bar chart (often called the **Gantt Chart**) is a scheduling device that looks like what its name implies – a “chart of bars” plotted along a time scale.



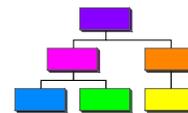
The bars are used to represent individual items of work (electrical interior, plumbing, foundations, excavating, etc.) and are plotted to a specific time scale. The left end of the bar is placed at the starting point (in time) of the item of work, and the right end shows the completion time of the item of work it represents. Even today, it is the most widely used of all scheduling devices and may be quite satisfactory for some of our simpler contracts.

The bar chart, however, has a distinct disadvantage on our major construction contracts. They neglect to indicate the relationship between the various items of work. This limits their ability to identify possible problems areas or any impact that may have already occurred on the items. As contracts become more complex and critical, we need to use a more effective scheduling tool, such as the CPM or NAS.

The interface with QCS and/or RMS and the scheduling system employed makes no difference as to whether it is a bar chart or a full-blown NAS. CEGS-01312, Quality Control System (QCS), requires the contractor to breakout his work activities so they can be analyzed and tracked to completion. You will be provided the same information, no matter the scheduling system specified in the contract.

Network Analysis System (NAS)

Obtaining quality construction on time and within budget is a primary goal of the U.S. Army Corps of Engineers. In order to manage the time specified for the accomplishment of a project, a schedule may be required on construction contracts. The contractor is responsible for scheduling the work and progress so that the contract completion date is met. The Administrative Contracting Officers (ACO) monitors the contractor’s schedule to assure compliance. If a schedule is not provided, the Contracting Officer may withhold progress payments. If actual progress fails to meet the schedule, the Contracting Officer should take appropriate actions to assure compliance with the progress of the work. Therefore, the schedule is vital to effective construction management by the Contractor and the Government.



Regulations allow the Government Staff to choose the type of contract schedule during the design phase. Bar charts can be used to manage simple jobs. When by its nature a construction project or other effort is complex with many interrelated activities, a network schedule may be

the most effective tool for analyzing progress, projecting completion, and calculating payment commensurate with actual progress. The determination of applicability of network scheduling is the responsibility of the Contracting Officer. When determined to be applicable, network schedules must be carefully specified, updated regularly, and used effectively. Standard data exchange format shall be used to monitor a contractor's schedule.

A network schedule requires first a logic diagram graphically depicting the sequence and interdependence of the work. It is required to be drawn in the precedence format, and it must accurately represent the intended work sequence and indicate actual constraints. Once the logic diagram is made, an analysis is required which calculates early and late start and finish dates for the activities as well as the spare time or float available to accomplish the activity. Resource data such as cost and responsibility may be entered for activities also. Once calculated, these results can be ordered in different arrangements or sorts and compiled into specific reports for management purposes. Actual progress must be entered once work commences. Based on this progress, revised start and finish dates, and progress payment can be calculated.

Construction schedules after contract award should be contractor prepared in order to involve the contractor in the actual planning. Updates of actual progress should also have contractor participation as well as Government concurrence since the resultant analysis will project early or late contract accomplishment and progress payment due. Changes to the work and occurrences which impact progress must be entered in the schedule logic in order to keep the schedule up to date, to reflect actual job progress, to determine where the contractor must accelerate to regain the schedule when behind due to his/her own actions, and to determine the impact and effect of Government actions on the contractor in order to provide equitable adjustments to the contract time as required.

The contractor should submit his/her NAS within the time required by the specifications. The schedule must be verified as being logical and the completion dates attainable. Failure to enforce this requirement is highly detrimental to project management. Partial payments cannot be processed until an acceptable NAS schedule has been submitted. The Contracting Officer may not allow work to start nor make partial payments until an acceptable schedule (interim or final) is received and approved. Once approved, the schedule must be maintained up to date with regard to job progress and changes. Failure to maintain job progress is fatal to effective schedule management.

NAS can be a valuable tool in contract administration. NAS schedule data can be used to project contract completion, schedule Government actions, incorporate changes and occurrences during execution of the contract, analyze their effect on the contract completion, and arrive at equitable adjustments.

Standard Data Exchange Format (SDEF)

"The Standard Data Exchange Format (SDEF) provides a non-proprietary protocol to exchange project planning and progress data between scheduling systems." – Bill East (CERL)

The Standard Data Exchange Format provides a consistent format for exchanging scheduling information on construction projects and allows data to be easily transferred between different software programs. It was originally implemented in March 1990, with eight software vendors incorporating the data-exchange protocols into their systems. Since then, changes have been made to clarify differences that occurred when implementing the standard. Revisions included clarification of previously optional activity codes, inclusion of calculated dates, and minor modification to the cost elements.

The SDEF was developed by the U.S. Army Construction Engineering Research Laboratories (USACERL) in conjunction with the Corps of Engineers Headquarters, Corps Field Offices, construction management consultants, scheduling software vendors, and professional associations. It uses a 132-character fixed-field ASCII file to specify the position, length, and definition of both required and optional scheduling information. Fixed-field ASCII file allows contractors to produce the SDEF file with commercial software for large projects or word processing programs for smaller projects.

Implementation of the SDEF made data transfer between the Corps and construction companies easier by establishing a standard format for the exchange of scheduling data. In addition, contractors and subcontractors are able to send and receive electronic scheduling information, creating a simplified communication flow through the construction scheduling process. This capability provides for more efficient project planning and scheduling.

RMS, QCS and the SDEF

This guide specification covers the requirements for use of RMS/QCS for contract monitoring and administration. During preparation of the Government Project Management Plan, the project delivery team should have analyzed each project/future contract to decide if use of QCS is necessary. Its use will be appropriate for inclusion in most construction and dredging contracts. However, it may not be necessary or beneficial to include the QCS requirement in small, simple, short duration contracts/delivery orders for construction, or for other contracts where its use would not be beneficial overall.

NOTE: RMS is to be used for all construction contracts, including those where QCS is not required.



Paragraph 6.5, Schedule, of the Corps Guide Specification states:

“The Contractor shall develop a construction schedule consisting of pay activities, in accordance with Contract Clause “Schedules for Construction Contracts”, or Section 01320, PROJECT SCHEDULE, as applicable. This schedule shall be input and maintained in the QCS database either manually or by using the Standard Data Exchange Format (SDEF) (see Section 01320, PROJECT SCHEDULE). The updated schedule data shall be included with each pay request submitted by the Contractor.”

Contract Specified Project Schedule

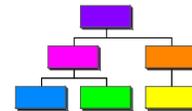
Guide specification 01320 covers the requirements for the preparation and maintenance of the project schedule. Selection of the optional requirements in the specification should have been coordinated to ensure that the schedule requirements are appropriate for the complexity of the work.

Paragraph 3.1, General Requirements, states:

“Pursuant to the Contract Clause, SCHEDULE FOR CONSTRUCTION CONTRACTS, a Project Schedule as described below shall be prepared. The scheduling of construction shall be the responsibility of the Contractor... The approved Project Schedule shall be used to measure the progress of the work, to aid in evaluating time extensions, and to provide the basis of all progress payments.”

Paragraph 3.3.1, Use of the Critical Path Method, states:

“The Critical Path Method (CPM) of network calculation shall be used to generate the Project Schedule. The Contractor shall provide the Project Schedule in the Precedence Diagram Method (PDM).”



Caution: When this Guide Specification has been incorporated into your contract, a BAR CHART does not comply with the requirements and should not be approved. A CPM (NAS) must be used to satisfy these contract requirements.

Well, now that we have explored way more than we needed to about schedules and the SDEF, let's look at QCS interfaces with the Contractor's scheduling program.



QCS maintains two types of schedules.

1. A detailed NAS of the contractor's work activities. This is the **Activity Schedule** used at the jobsite to forecast projected need dates for submittals, materials, equipment, work crews, testing schedules, three phase inspections, etc. The level of detail (i.e., form footings, set re-bar, place concrete) is not very useful for the customer or those not tasked with the day-to-day scheduling operations at the jobsite.
2. As part of the contractor's QC Plan, *Defineable Features of Work* for a construction contract are identified by the contractor to plan Preparatory, Initial and Follow-Up inspections of the work. QCS and RMS generates a **Feature**

Schedule by finding the first activity scheduled to start under a feature and the last activity scheduled to be finished under a feature. Actual progress is determined by computing earnings to date on the activities for a feature. Many construction contracts (even those with 1000's to tens of 1000's of work activities) have fewer than 30 features of work. This rolled up **Feature Schedule** makes an excellent schedule for easily monitoring the progress on a contract. The customers find this schedule very easy to understand. Typical features include items like Site Utilities, Interior Electrical, Roofing, etc.

Activity Schedule

This option gives you a quick overview of your **Activity Schedule**. The information in this section is either entered directly into QCS or imported from the scheduling software package. There is an opportunity to review imported data before incorporating it into QCS. Choosing **Activity Schedule** brings up the following screen.

Actual date changes are made as a part of the **Daily Quality Control Report**, from which the dates are typically either imported from the Contractor's NAS or manually updated. The *actual dates* are imported from the Contractor's Daily QC Report and cannot be changed after export to the Government, unless it is returned to the Contractor for correction. The Scheduled Date columns may be updated from this screen.

This is how the screen appears when you are using QCS and importing the Contractors' SDEF file from his scheduling system.

Feature Schedule

The Contractor's Quality Control Plan requires that the contract be organized according to **Definable Features of Work**. The **Definable Features of Work** are assigned to specific activities in the schedule so that preparatory, initial and follow-up inspections may be scheduled.

As **Definable Features of Work** are required to be identified by the Contractor as part of his Quality Control program, this **Feature Schedule** of QCS is used to track and report when the **Preparatory and Initial three phase Inspection Control Meetings** are scheduled and actually conducted.

- All Contractor Activities must be assigned to one and only one Definable Feature of Work.
- The Definable Feature of Work may have MANY Activities linked to it.
- The Definable Features of Work in the Quality Control Plan must match those in the Scheduling program.

The screenshot shows the QCS RMS Training Contract software interface. The main window displays the 'QC - Feature Schedule' table. The table has columns for 'Feature of Work', 'Start Date', 'Finish Date', 'Preparatory Inspection', and 'Initial Inspection'. The 'Feature of Work' column is expanded to show details for '03 20 01 CONCRETE RE-BAR'.

Feature of Work	Start Date	Finish Date	Preparatory Inspection	Initial Inspection
00700 CONTRACT CLAUSES	04/23/08 A	04/23/08 A		
01 91 00 COMMISSIONHVAC SYS	10/27/09	11/05/09		
01012 DESIGN AFTAWARD	04/23/08 A	12/07/09		
01312A QUALITY COQCS	04/23/08 A	07/09/08 A		
01355A ENVIRONMENTPROTECTIO	04/23/08 A	07/03/08 A		
01451A C/QUALITY CONTROL	11/09/09	11/24/09		
01500A TEMP CONSTFACILITIE	07/14/08 A	09/18/08 A		
01780 CLOSEOUT SUBMITTAL	10/28/09	12/07/09		
01780 PROJECT CLOSE-OUT	11/25/09	12/07/09		
03 20 01 CONCRETE RE-BAR	11/20/08 A	03/12/09 A	11/14/08 A	11/25/08 A
03 31 00 CIP CONCRETE	12/01/08 A	10/15/09 A	11/26/08 A	12/02/08 A
04 20 00 MASONRY CMU	12/22/08 A	10/22/09	11/26/08 A	12/22/08 A
05 12 00 STRUCTURALSTEEL	11/14/08 A	10/15/09 A	02/19/09 A	03/23/09 A
05 30 00 STEEL DECKS	11/14/08 A	05/15/09 A	02/19/09 A	03/25/09 A
05 40 00 COLD-FORMEM/FRAMING	11/14/08 A	04/15/09 A	02/19/09 A	03/17/09 A
05 50 00 MISC METALFABRCATIO	07/07/09 A	11/10/09	07/22/09 A	08/20/09 A

Feature - 03 20 01 CONCRETE RE-BAR

First Activity A0C145 INSTALL REBARS, FOUNDATION Start 11/20/2008A
 Last Activity A0C3956 INSTALL REBARS_GROUT CMU, 3R Finish 03/12/2009A
 Feature start and finish dates computed from the activity schedule.
 Preparatory and Initial Inspection Dates from Daily QC Reports.

Features of Work can be considered as a general category of construction work that is referenced in the contract specifications. A feature can also be thought of as any phase of work requiring a preparatory inspection. In QCS they are tied to work types that are tied to three phase inspection checks. As such, they are an integral part to the power of QCS to print inspection worksheets and should be thought through carefully. The dates are captured from the QC Daily Report or may be entered here.

Chapter 6 – Progress Payments

What you will learn from this Chapter

Progress Payments

- Overview of Chapter Contents
- Far Requirements for Prompt Payment
- Adding a Pay Period
- Entering Requested Earnings
- Importing the Pay Request
- Additional Earnings
- Stored Materials
- Preparatory Work
- Performance and Payment Bonds
- Subcontractor Deductions
- Exporting the Pay Request
- Payment Reports



Overview



The QCS program allows the contractor to submit progress payments with the exchange of data electronically with the government. The actual exchange process is the subject of the next chapter in this manual. This chapter will address the payment process within the QCS program.

The **Progress Payments** module allows you to track all the aspects of payments on the contract. The Contractor submits a request for payment by **Pay Activities**. The request can either be for a specific dollar amount, or for a percentage of the pay activity amount or quantity. The Contractor and Government Representative should jointly review the Contractor's request, check for any outstanding requirements and determine what the allowed amount will be (again, using either specific dollars or a percentage). Retained percentages are also taken into consideration.

In accordance with Contract Clause, "Prompt Payment for Construction Contracts", the Prompt Payment Act (PPA) (this is a Public Law 100-496 and has been in effect since April 1, 1989), payments are required to be made within 14 calendar days of receipt of a proper invoice. When submitting the pay request, **MAKE SURE** it is accompanied by a "certification" as specified in the contract. The office receiving the payment request is obligated to ensure that the pay request is correct and, if not, return it to the Contractor within 7 calendar days, otherwise it will be assumed to be correct and interest will be paid if a late payment takes place. The PPA certificate can be printed directly from the QCS program.

Progress Payment are located under the heading **Administration** from the **Contract Menu**.

Invoice No	Pay Period From	Pay Period Thru	Earnings This Period	Earnings to Date	Paid to Date	Status
1	04/23/2008	08/15/2008	\$664,761.00	\$664,761.00	\$664,761.00	Awaiting Gov't Approval
2	08/16/2008	11/15/2008	\$450,518.00	\$1,115,279.00	\$1,115,279.00	Paid on 12/02/2008
3	11/16/2008	12/15/2008	\$198,970.00	\$1,314,249.00	\$1,314,249.00	Paid on 12/29/2008
4	12/16/2008	01/15/2009	\$458,038.00	\$1,772,287.00	\$1,772,287.00	Paid on 02/03/2009
5	01/16/2009	02/15/2009	\$505,398.00	\$2,277,685.00	\$2,249,127.00	Paid on 03/04/2009
6	02/16/2009	03/15/2009	\$1,657,114.50	\$3,934,799.50		
7	03/16/2009	04/15/2009	\$1,914,870.50	\$5,849,670.00		
8	04/16/2009	05/15/2009	\$427,926.00	\$6,277,596.00		
9	05/16/2009	06/05/2009	\$764,897.50	\$7,042,493.50		
10	06/06/2009	07/06/2009	\$653,583.10	\$7,696,076.60		
11	07/07/2009	08/12/2009	\$1,190,288.75	\$8,886,365.35		
12	08/13/2009	09/11/2009	\$712,084.85	\$9,598,450.20		

Pay Request No. 13 - Not Completed

Prepare Pay Request No. 13



Prior to submitting any progress payment, verify that all finances are balanced. This includes CLIN's and Payment Activities.

FAR Requirements for Prompt Payment

- The “designated billing office” is defined as the office or person designated in the contract to first receive the contractor’s invoice or request for payment. In most cases, this will be the Area, Resident or Project Office that is administrating the construction contract on behalf of the Corps of Engineers.
- A “proper invoice” is defined by FAR clause 52.232-27(a)(2) and must include, among other items, “substantiation” of the amounts requested and “certification” in accordance with the requirements of clause 52.232-5. Payment will not be made without contractor substantiation of the amounts requested and certification that previous amounts were expended in accordance with the contract, subcontractors and suppliers have been paid from previous payments and will be paid promptly from the payment requested, and that the prime contractor’s payment request does not include any amounts to be withheld or retained from a subcontractor. The certification must appear exactly as stated in the aforementioned clause and be fully executed by the contractor. The degree of substantiation required will depend upon the type of work involved and will be left to the discretion of the Contracting Officer. In most cases, however, an update of the approved contract price breakdown indicating itemized completion percentages that were established by mutual agreement between government and contractor contract personnel would constitute substantiation of work-in-place.
- If an invoice is found to be improper or defective, as defined by 52.232-27(a) (2), the contractor must be notified of the defect within 7 days after receipt of the invoice. It is recommended that the initial notification be placed telephonically (see clause 52.232-27(a) (2) (vii) and then confirmed in writing. The “clock” is effectively stopped upon notification of the defect and the whole process starts over with the resubmission of the corrected invoice. Disagreement between the Government and the Contractor over the payment amount, issues of contract compliance or retainage does not form the basis for finding the invoice to be defective and requiring resubmission. However, since clause 52.232-27(a) (4) (iv) states that “Interest penalties are not required on payment delays due to disagreement...” it is imperative that the ENG Form 93 be annotated to document the delay and alert the designated payment office not to pay interest during the delay period.
- If the Government takes longer than 7 days to notify the contractor of an invoice defect, the subsequent payment period for processing the corrected invoice is shortened by the number of days that the Government exceeded the 7 day requirement (e.g., if the specified due date is 14 days after receipt, and the Government takes 10 days to notify the Contractor of a defect, payment of the corrected invoice is due 11 days after receipt).
- The due date for progress payments shall be 14 days after receipt of a proper payment request. This requirement is contained in P.L. 100—496 and is not subject to negotiation. The FAC (Federal Acquisition Circular 84-45) does provide for making a determination as to a contract or class of contracts and specifying, in the solicitation, “a period longer than 14 days if required to afford the Government a practicable opportunity



Quality Control System

to *adequately inspect the work* and to *determine the adequacy of the contractor's performance...*" The Office of Management and Budget (OMB) Circular A-125 states that, "extended payment periods would not be appropriate... for the mere convenience of government employees, or to avoid any possibility of making late payment." In order to carry out the Congressional intent, determinations to specify longer payment periods shall be made by the Contracting Officer and shall be documented by written justification in the contract file. Current feedback from the field indicated that where ENG Form 93's are transmitted electronically to the payment office, the "50 percent rule" (in the payment office by close of business on the day that represents half the pay period, or in this case, the 7th day) could usually be met.

- The release of retained amounts shall be based on the Contracting Officer's determination that satisfactory progress has been made. Payment is due within 30 days, or other specified period, after release is approved.
- On final payments, we don't have the latitude of specifying a longer payment period. Payment is due either the 30th day after receipt of the invoice or the 30th day after Government acceptance of the work, whichever is later. Where final payment is subject to settlement actions (e.g., release of claims), acceptance is deemed to have occurred the effective date of settlement.
- If a contractor is overpaid (his performance is later found not in conformance with the contract specifications or he has held retainage from a subcontractor and was paid the full amount), the Government is entitled to interest, and the interest must be deducted from the next available payment to the contractor. Although Clause 52.232-5(d) predicates such action upon the contractor's discovery of the "*unearned amount*", there may be instances where it is necessary for the Government to provide information for discovery.
- Another major revision is the addition of some very detailed provisions applying to the payment of subcontractors. The highlights are:
 1. The provisions flow down to subcontractors and suppliers at **all** tiers. The prime contractor must include a contract clause requiring each of its subcontractors to flow down these same requirements to each of their subcontractors.
 2. Contractors and subcontractors must pay their subcontractors within 7 days of receipt of their respective payment. They may not specify longer payment periods in their subcontracts.
 3. Contractors and subcontractors must pay interest to their subcontractors for payments made after the due date (7th day).
 4. Interest that the contractor pays a subcontractor cannot be charged to the Government.
 5. The Contracting Officer must be provided copies of retainage and withholding notices issued to subcontractors.
- While the sections on payments to subcontractors constitute a large portion of Clause 52.232-27, the Congress did not indicate it intended to place the Government in an enforcement role between the prime and subcontractor on payment issues. Although the requirements to provide the Contracting Officer with copies of correspondence to

Quality Control System

subcontractors may indicate deeper involvement, the Office of the Chief Counsel has confirmed that neither OMB Circular A-125 nor the FAR requires the Government to monitor and enforce activities between the prime and subcontractor as identified in subparagraphs (d) (e) (f) and (g) of Clause 52.232.27. Compliance with subparagraph (c) will be implemented through a mechanism similar to the *Statement and Acknowledgment Form* used in the labor provisions.

Adding a Pay Period

The Progress Payment screen is used to review and /or prepare payments. The process for making payments is a logical one and should be easily understood.

You begin the process by pushing the **Prepare Pay Request No. ##** button located at the bottom right side of the screen.

After you push the **Prepare Pay Request No. #** button to add a new pay period, QCS presents a new screen on which to complete the request. You are able to review the previous pay periods, however, you can only edit the *CURRENT* pay estimate. You may preview all *ENG Form 93's* that have been archived.

The screenshot displays the QCS interface for the RMS Training Contract. The main window title is "Contract ID - J3000672 Contract No. - W9128A-08-C-0006 NA". The application title is "QCS RMS Training Contract". The menu bar includes "File", "Options", and "Help". The toolbar contains buttons for "Close Contract", "Administration", "QC", "Submittals", "Import / Export", "Contract Reports", and "Exit QCS".

The "Administration - Progress Payments" section is active. It features a "Contract Description" sidebar with links for "Action Items", "Prime Contractor", "Subcontractors", "Contractor Insurance", "Correspondence", "Request for Information", "Pay Activities", and "Progress Payments". The main area contains a table with the following data:

Invoice No.	Pay Period From	Pay Period Thru	Earnings This Period	Earnings to Date	Paid to Date	Status
1	04/23/2008	08/15/2008	\$664,761.00	\$664,761.00	\$664,761.00	Awaiting Gov't Approval
2	08/16/2008	11/15/2008	\$450,518.00	\$1,115,279.00	\$1,115,279.00	Paid on 12/02/2008
3	11/16/2008	12/15/2008	\$198,970.00	\$1,314,249.00	\$1,314,249.00	Paid on 12/23/2008
4	12/16/2008	01/15/2009	\$458,038.00	\$1,772,287.00	\$1,772,287.00	Paid on 02/03/2009
5	01/16/2009	02/15/2009	\$505,398.00	\$2,277,685.00	\$2,249,127.00	Paid on 03/04/2009
6	02/16/2009	03/15/2009	\$1,657,114.50	\$3,934,799.50	\$3,870,691.50	Paid on 04/03/2009
7	03/16/2009	04/15/2009	\$1,914,870.50	\$5,849,670.00	\$5,775,562.00	Paid on 05/19/2009
8	04/16/2009	05/15/2009	\$427,926.00	\$6,277,596.00	\$6,203,488.00	Paid on 06/10/2009
9	05/16/2009	06/05/2009	\$764,897.50	\$7,042,493.50	\$6,968,385.50	Paid on 07/02/2009
10	06/06/2009	07/06/2009	\$653,583.10	\$7,696,076.60	\$7,621,968.60	Paid on 07/27/2009
11	07/07/2009	08/12/2009	\$1,190,288.75	\$8,886,365.35	\$8,715,185.93	Paid on 08/21/2009
12	08/13/2009	09/11/2009	\$712,084.85	\$9,598,450.20	\$9,427,270.78	Paid on 09/21/2009

At the bottom of the screen, the status "Pay Request No. 13 - Not Completed" is displayed. A red arrow points to the "Prepare Pay Request No. 13" button located in the bottom right corner.

Entering Requested Activity Earnings

Payments to the contractor and payment frequency are set forth in the "Payments Under Fixed Price Construction Contracts", or an equivalent clause of the contract. Frequency of payment is usually specified as monthly, but the pay period should be mutually agreed upon by appropriate Government and Contractor person, or as specified in the contract.

Progress payments are based on the value of acceptable work the Contractor has placed from one pay period to the next. That is, a Contractor is paid according to the percentage or quantity of work that has been satisfactorily completed, or partially completed as the case may be. Preferably, mutual agreement is obtained with the Government and Contractor on progressive earnings through consultation prior to preparing the formal pay request.

The estimate must be arithmetically correct. The Contractor or authorized representative should sign the original before forwarding the final request for payment to the Government. When a NAS is used, it should provide the supporting data for interim pay estimates. When there is an unreconciled disagreement in the amount of contractor earnings, the Government advises the Contractor of the differences and makes the payment

The Contractor may manually enter the requested earnings, or **Import Pay Request** from his scheduling program.

Contractor Requested Earnings								
Activity Earnings		Subcontractor Earnings		Additional Earnings		Payment POCs		
<input checked="" type="radio"/> Requested Activity Earnings				<input type="radio"/> Requested CLIN Earnings		<input checked="" type="checkbox"/> Exclude lump sum activities previously paid 100%		
Pay Activity		Previous Total Earnings			Total Requested To Date			Invoice No. 13
Activity No.	Activity Description	Previous %	Previous Qty	Previous Amount	Requested %	Requested Qty To Date	Requested To Date	Requested This Period
A0C230	INSTALL PLAYGROUND EQUIPMENT	0	0	\$0.00	0	0.0000	\$0.00	\$0.00
A0C240	RUBBERIZED PLAYING SURFACE	0	0	\$0.00	0	0.0000	\$0.00	\$0.00
A0D290	INTERIOR PARTITION, METAL FRAM	95	0.95	\$69,142.90	95	0.9500	\$69,143.00	\$0.10
A0D291	INSTALL CEILING FRAMES & GRID	80	0.8	\$40,000.00	100	1.0000	\$50,000.00	\$10,000.00
A0D292	INSTALL ACOUSTICAL CEILING	30	0.3	\$17,306.40	45	0.4500	\$25,960.00	\$8,653.60
A0D293	INSTALL CORNER GUARDS	0	0	\$0.00	0	0.0000	\$0.00	\$0.00
A0D295	INSTALL MF BLANKET INSULATION	95	0.95	\$23,805.10	100	1.0000	\$25,058.00	\$1,252.90
A0D302	HVAC MECHANICAL, CHILLER & PUM	95	0.95	\$66,500.00	95	0.9500	\$66,500.00	\$0.00
A0D3022	INSTALL DDC CONTROLS, HVAC & O	60	0.6	\$36,000.00	75	0.7500	\$45,000.00	\$9,000.00
A0D3023	INSTALL AHUs, FCUs & TUs	95	0.95	\$120,038.00	95	0.9500	\$120,038.00	\$0.00
A0D303	FIRESTOPPING	0	0	\$0.00	0	0.0000	\$0.00	\$0.00
A0D310	INSTALL WINDOWS, INTERIOR	95	0.95	\$45,600.00	95	0.9500	\$45,600.00	\$0.00
A0D311	INSTALL DOOR & FRAMES, INTERIO	90	0.9	\$59,709.60	95	0.9500	\$63,027.00	\$3,317.40
A0D312	DOOR HARDWARE	90	0.9	\$40,500.00	95	0.9500	\$42,750.00	\$2,250.00
A0D313	ELEC/TEL/DATA/TV WIRING, INTER	70	0.7	\$49,000.00	80	0.8000	\$56,000.00	\$7,000.00
				Totals			\$9,740,955.20	\$142,505.00

CLIN 0002	Activity No. A0X181	COMMISSIONING
Activity Total Quantity		1.0000 LS
Activity Total Amount		\$20,000.00
Requested on Invoice No. 13		
Activity Earnings This Period		\$142,505.00
Additional Earnings This Period		\$0.00
Total Earnings This Period		\$142,505.00

Payment No. 13	Thru 10/31/2009	Invoice Date 11/03/2009	Requested Earnings Completed <input type="checkbox"/> Yes
----------------	-----------------	-------------------------	---

Quality Control System

An additional feature with this release lets you see how your Activity Earnings roll-up to the CLIN level. By clicking the radio button “Requested CLIN Earnings”, you will see the following “Read Only” screen.

Contractor Requested Earnings

Find Request Close

Activity Earnings Subcontractor Earnings Additional Earnings Payment POCs

Requested Activity Earnings Requested CLIN Earnings

CLIN		Previous Total Earnings			Total Requested To Date			Invoice No. 13
CLIN	CLIN Description	Previous %	Previous Qty	Previous Amount	Requested %	Requested Qty To Date	Requested To Date	Requested This Period
0001	Design - Child Development Center (CDC)	100	1.0000	\$590,800.00	100	1.0000	\$590,800.00	\$0.00
0002	Construction - Child Development Center	86	0.8600	\$8,981,546.20	87	0.8700	\$9,124,051.20	\$142,505.00
0003	Mod A00003 - Remove Banyan Tree	100	1.0000	\$8,834.00	100	1.0000	\$8,834.00	\$0.00
0004	Mod A00002 - Conc Jacket and 6" Undergrd Cc	100	1.0000	\$4,267.00	100	1.0000	\$4,267.00	\$0.00
0005	Mod A00003 - Demolish Existing Chain Link Fen	100	1.0000	\$2,706.00	100	1.0000	\$2,706.00	\$0.00
0006	A00004 Incorporate UFC 4-740-06 Requirement	100	1.0000	\$7,929.00	100	1.0000	\$7,929.00	\$0.00
0007	Mod A00005 - Terminate Sewerline SL-A at Sta	100	1.0000	\$2,368.00	100	1.0000	\$2,368.00	\$0.00
Totals				\$9,598,450.20			\$9,740,955.20	\$142,505.00

CLIN 0006

A00004 Incorporate UFC 4-740-06 Require

Unit Price **\$0.00**

CLIN Total Quantity **1.0000 LS**

CLIN Total Amount **\$7,929.00**

Requested on Invoice No. 13

Activity Earnings This Period **\$142,505.00**

Additional Earnings This Period **\$0.00**

Total Earnings This Period **\$142,505.00**

Payment No. 13 Thru 10/31/2009 Invoice Date 11/03/2009 Requested Earnings Completed Yes

Subcontractor Earnings and Deductions

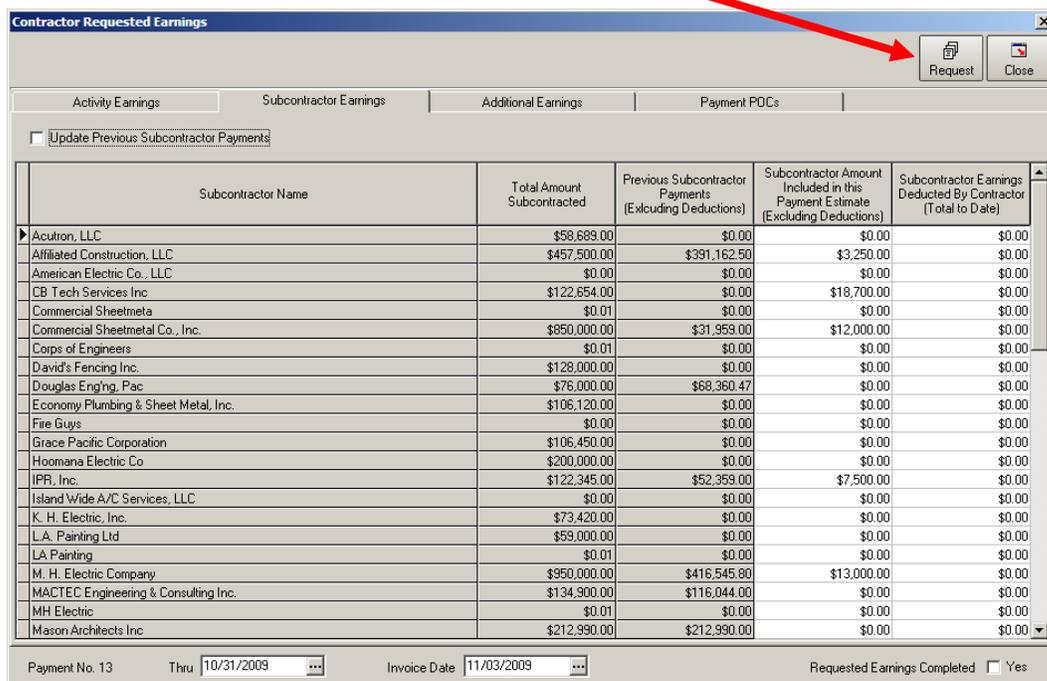
In accordance FAR 52.232-5 — “Payments Under Fixed-Price Construction Contracts”, RMS and QCS has been provided with screens to accommodate the information specified to be furnished by the Prime Contractor relative to Subcontractors used on the contract.

Key items to be provided per the Prompt Payment Act:

- Listing of amount for work accomplished by each subcontractor.
- Listing of the total amount of each subcontract.
- Listing of amount previously paid to each subcontractor (includes any deductions against the subcontract, per the Prompt Payment Act (PPA)).

Screens have been added to provide data for Assignments and Notification of Defective Invoice.

The **Prompt Payment Certification** is also included on the screen and a report can be generated within QCS to submit with the Contractor Payment Request.



The screenshot shows a software window titled "Contractor Requested Earnings". It features a table with columns for Subcontractor Name, Total Amount Subcontracted, Previous Subcontractor Payments (Excluding Deductions), Subcontractor Amount Included in this Payment Estimate (Excluding Deductions), and Subcontractor Earnings Deducted By Contractor (Total to Date). The table lists various subcontractors and their respective financial data. At the bottom, there are fields for Payment No. 13, Thru 10/31/2009, Invoice Date 11/03/2009, and a checkbox for Requested Earnings Completed.

Subcontractor Name	Total Amount Subcontracted	Previous Subcontractor Payments (Excluding Deductions)	Subcontractor Amount Included in this Payment Estimate (Excluding Deductions)	Subcontractor Earnings Deducted By Contractor (Total to Date)
Aicultron, LLC	\$58,689.00	\$0.00	\$0.00	\$0.00
Affiliated Construction, LLC	\$457,500.00	\$391,162.50	\$3,250.00	\$0.00
American Electric Co., LLC	\$0.00	\$0.00	\$0.00	\$0.00
CB Tech Services Inc	\$122,654.00	\$0.00	\$18,700.00	\$0.00
Commercial Sheetmeta	\$0.01	\$0.00	\$0.00	\$0.00
Commercial Sheetmetal Co., Inc.	\$850,000.00	\$31,959.00	\$12,000.00	\$0.00
Corps of Engineers	\$0.01	\$0.00	\$0.00	\$0.00
David's Fencing Inc.	\$128,000.00	\$0.00	\$0.00	\$0.00
Douglas Eng'ng, Pac	\$76,000.00	\$68,360.47	\$0.00	\$0.00
Economy Plumbing & Sheet Metal, Inc.	\$106,120.00	\$0.00	\$0.00	\$0.00
Fire Guys	\$0.00	\$0.00	\$0.00	\$0.00
Grace Pacific Corporation	\$106,450.00	\$0.00	\$0.00	\$0.00
Hoomana Electric Co	\$200,000.00	\$0.00	\$0.00	\$0.00
IPRI, Inc.	\$122,345.00	\$52,359.00	\$7,500.00	\$0.00
Island Wide A/C Services, LLC	\$0.00	\$0.00	\$0.00	\$0.00
K. H. Electric, Inc.	\$73,420.00	\$0.00	\$0.00	\$0.00
L.A. Painting Ltd	\$59,000.00	\$0.00	\$0.00	\$0.00
LA Painting	\$0.01	\$0.00	\$0.00	\$0.00
M. H. Electric Company	\$950,000.00	\$416,545.80	\$13,000.00	\$0.00
MACTEC Engineering & Consulting Inc.	\$134,900.00	\$116,044.00	\$0.00	\$0.00
MH Electric	\$0.01	\$0.00	\$0.00	\$0.00
Mason Architects Inc	\$212,990.00	\$212,990.00	\$0.00	\$0.00

Payment No. 13 Thru 10/31/2009 Invoice Date 11/03/2009 Requested Earnings Completed Yes

Quality Control System

Prompt Payment Certification Report (Page 1)

Prompt Payment Certification And Supporting Data For Contractor Payment Invoice				Page 1 of 5 pages	
(1) Contract No.: W9128A-08-C-0006 NA		(2) Location and Description of Work: Schofield Barracks, Oahu, Haw aii RMS Training Contract		(3) Estimate No.: 13	
				(4) Invoice Date: 11/03/2009	
(5) Contractor Official (name and address) to w hom payment is to be sent: RMS Manual 636 Laumaka Street Honolulu HI 96819			(6) Discount Terms: 0 Days 0 Percent		
(7) If Notice of Assignment has been filed, enter name of Assignee to w hom payment is to be sent: Siri New sham, Accountant 808-842-4929 636 Laumaka St., Honolulu, HI 96819			(8) Name, Title, phone number, and mailing address of person to be notified in event of a defective invoice: Ryan Nakaima, Vice President 808-842-4929 636 Laumaka St., Honolulu, HI 96819		
(9) Subcontractor Name	(10) Total Amount Subcontracted	(11) Previous Subcontractor Payments (Excluding Deductions)	(12) Subcontractor Amount Included in this Payment Estimate (Excluding Deductions)	(13) ** Subcontractor Earnings Deducted by Contractor (Total to Date)	
Acutron, LLC	\$58,689.00	\$0.00	\$0.00	\$0.00	
Affiliated Construction, LLC	\$457,500.00	\$391,162.50	\$3,250.00	\$0.00	
American Electric Co., LLC	\$0.00	\$0.00	\$0.00	\$0.00	
CB Tech Services Inc	\$122,654.00	\$0.00	\$18,700.00	\$0.00	
Commercial Sheetmeta	\$0.01	\$0.00	\$0.00	\$0.00	
Commercial Sheetmetal Co., Inc.	\$850,000.00	\$31,959.00	\$12,000.00	\$0.00	
Corps of Engineers	\$0.01	\$0.00	\$0.00	\$0.00	
David's Fencing Inc.	\$128,000.00	\$0.00	\$0.00	\$0.00	
Douglas Eng'ng, Pac	\$76,000.00	\$68,360.47	\$0.00	\$0.00	
Economy Plumbing & Sheet Metal, Inc.	\$106,120.00	\$0.00	\$0.00	\$0.00	
Fire Guys	\$0.00	\$0.00	\$0.00	\$0.00	
Grace Pacific Corporation	\$106,450.00	\$0.00	\$0.00	\$0.00	
Hoomana Electric Co	\$200,000.00	\$0.00	\$0.00	\$0.00	
IPR, Inc.	\$122,345.00	\$52,359.00	\$7,500.00	\$0.00	
Island Wide A/C Services, LLC	\$0.00	\$0.00	\$0.00	\$0.00	

** A w ritten notice of any w ithholding shall be issued to a subcontractor (w ith a copy to the Contracting Officer) of any such notice issued by the Contractor, specifying (1) the amount to be w ithheld, (2) the specific causes for the w ithholding under the terms of the subcontract, and (3) the remedial actions to be taken by the subcontractor in order to receive payment of the amounts w ithheld. Attach copy of notification to pay estimate. Reference FAR 52.232-27(g).

I hereby certify, to the best of my knowledge and belief, that:

- (1) The amounts requested are only for performance in accordance w ith the specifications, terms, and conditions of the contract;
- (2) Payments to subcontractors and suppliers have been made from previous payments received under the contract, and timely payments w ll be made from the proceeds of the payments covered by this certification, in accordance w ith subcontract agreements and the requirements of Chapter 39 of Title 31, United States, Code; and
- (3) This request for progress payments does not include any amounts w hich the prime contractor intends to withhold or retain from a subcontractor or supplier in accordance w ith the terms and conditions of the subcontract.
- (4) This certification is not to be construed as final acceptance of a subcontractor's performance.

Signature _____

Date _____

Ryan Nakaima, Vice President
Typed Name and Title

Additional Earnings

Occasionally, you may need to request additional earnings that are not addressed within the specific pay activities, but for which entitlement is authorized. Or, you may need to make deductions in the pay request for other items as shown below.

The third tab on this screen is entitled “**Additional Earnings**” and is used for the purposes just explained.

Activity Earnings	Subcontractor Earnings	Additional Earnings	OCs
Activity Earnings Total Requested Earnings to Date \$9,598,450.20	Previous Total Earnings \$9,740,955.20	Total Earnings To Date \$9,740,955.20	Invoice No. 13 \$142,505.00 Estimated Stored Materials Included in Activity Earnings \$0.00
Additional Requested Earnings not included in above Activity Earnings			
Additional Stored Material	\$0.00	\$0.00	\$0.00
Preparatory Work	\$0.00	\$0.00	\$0.00
Performance and Payment Bond	\$0.00	\$0.00	\$0.00
Subcontractor Deductions			
Less Subcontractor Deductions held by Prime	\$0.00	\$0.00	\$0.00
Sum of Requested Earnings to Date			Earnings this Period
Total Requested Earnings	\$9,598,450.20	\$9,740,955.20	\$142,505.00

Payment No. 13 Thru 10/31/2009 Invoice Date 11/03/2009 Requested Earnings Completed Yes

Stored Materials

There are two different types of stored materials addressed on this screen.

- Stored Materials included in Activity Earnings
- Stored Materials not included in Activity Earnings

A Stored materials that are included in activity earnings could be such items as “gypsum board”. The activity could be labeled as “Drywall” and the gypsum board is an item for that activity and it has been delivered to the jobsite, but not yet incorporated into the work. Any amount listed here will not reduce or increase earnings. Its primary purpose is to reflect accurate progress (percentage) of work actually in place. The earning amount will be reduced by the value of the stored materials prior to computing the actual progress percentage. The amount should ultimately be reduced to “ZERO” when all material is incorporated into the work.

B Stored materials that are not included in activity earnings could be such items that have been delivered to the jobsite but not yet incorporated. For example, if you had an activity called “Fencing”, the item could be “chain link fabric”. The fencing will be paid for by the lineal feet (LF) of installed fence, but none has yet been installed. The fabric is delivered but is not addressed in any specific *Contract Line Item* (CLIN) – sometimes called “Bid Items”. The amount entered here will be processed IN ADDITION to any activity earnings requested. It should be reduced to “ZERO” as the material is incorporated into the work. **(Note: This section of the screen only appears if you have UNIT PRICE CLIN’s – it does not apply to LUMP SUM CLIN’s.)**



Amounts entered that are not included in activity earning, **MUST BE REDUCED** as the material is incorporated and becomes a part of the actual activity.

Other Earnings not included in Activity Earnings

Similar to the stored material in B, above, there are two other categories of expenses for which payment is authorized in accordance with the Federal Acquisition Regulations (FAR).

- Preparatory Work
- Performance and Payment Bonds

Preparatory Work

Preparatory work is often encountered on UNIT PRICE contracts, where items such as “Mobilization” or “Demobilization” are not specifically addressed as a line item for which payment can be made. Payment may be extended for such costs, but must also be reduced as the work is placed. This amount should be “ZERO” when the contract is complete.

Performance and Payment Bonds

Not unlike “Preparatory Work” in the previous paragraph, Performance and Payment Bonds may be reimbursed as “up-front” costs when not specifically part of a contract line item. This also must be reduced as the work progresses. This amount should also be “ZERO” when the contract is complete.

Subcontractor Deductions

C When the Prime Contractor withholds earnings from a Subcontractor, the Government must HOLD the funds on behalf of the Prime Contractor. This is a strict requirement of the *Prompt Payment Act* and must be adhered to.

Enter the amount of the withholdings in “C” below. As the amount is returned to the Subcontractor, that amount will be reduced to “ZERO”.

Contractor Requested Earnings				
Activity Earnings	Subcontractor Earnings	Additional Earnings	Payment POCs	
Activity Earnings	Previous Total Earnings	Total Earnings To Date	Invoice No. 13	Estimated Stored Materials Included in Activity Earnings
Total Requested Activity Earnings to Date	\$9,598,450.20	\$9,740,955.20	\$142,505.00	\$0.00
Additional Requested Earnings not included in above Activity Earnings				
Additional Stored Material	\$0.00	\$0.00	\$0.00	
Preparatory Work	\$0.00	\$0.00	\$0.00	
Performance and Paym	\$0.00	\$0.00	\$0.00	
Subcontractor Deductions				
Less Subcontractor Deductions held by Prime	\$0.00	\$0.00	\$0.00	
Sum of Requested Earnings to Date				
Total Requested Earnings	\$9,598,450.20	\$9,740,955.20	Earnings this Period	\$142,505.00
Payment No. 13	Thru 10/31/2009	Invoice Date 11/03/2009	Requested Earnings Completed <input type="checkbox"/> Yes	

Payment POCs

This is the screen from which you can print the PPA Certification. The screen also includes information on any Assignment that may have been extended and a person to contact in the event of a defective invoice.

The screenshot shows a web application window titled "Contractor Requested Earnings". It features a navigation bar with tabs for "Activity Earnings", "Subcontractor Earnings", "Additional Earnings", and "Payment POCs". The "Payment POCs" tab is active. The form contains several sections:

- Discount Terms:** Includes "Discount Days" (0) and "Discount Percent" (0) with a note "(enter .01 for 1%)".
- Notice of Assignment:** A text area with instructions, followed by fields for Name (Siri Newsham), Title (Accountant), Phone (808-842-4929), and Address (636 Laumaka St., Honolulu, HI 96819).
- Notice of Defective Invoice:** A text area with instructions, followed by fields for Name (Ryan Nakaima), Title (Vice President), Phone (808-842-4929), and Address (636 Laumaka St., Honolulu, HI 96819).
- Certification by:** A text area with a certification statement and four numbered points. Below it are fields for Name (Ryan Nakaima) and Title (Vice President).

At the bottom of the form, there are fields for "Payment No. 13", "Thru 10/31/2009", and "Invoice Date 11/03/2009". On the right side, there is a checkbox labeled "Requested Earnings Completed" with "Yes" next to it. A red arrow points to this checkbox.

Indicate when you have completed the Pay Request to enable it to be electronically sent to the Government (RMS) for payment.

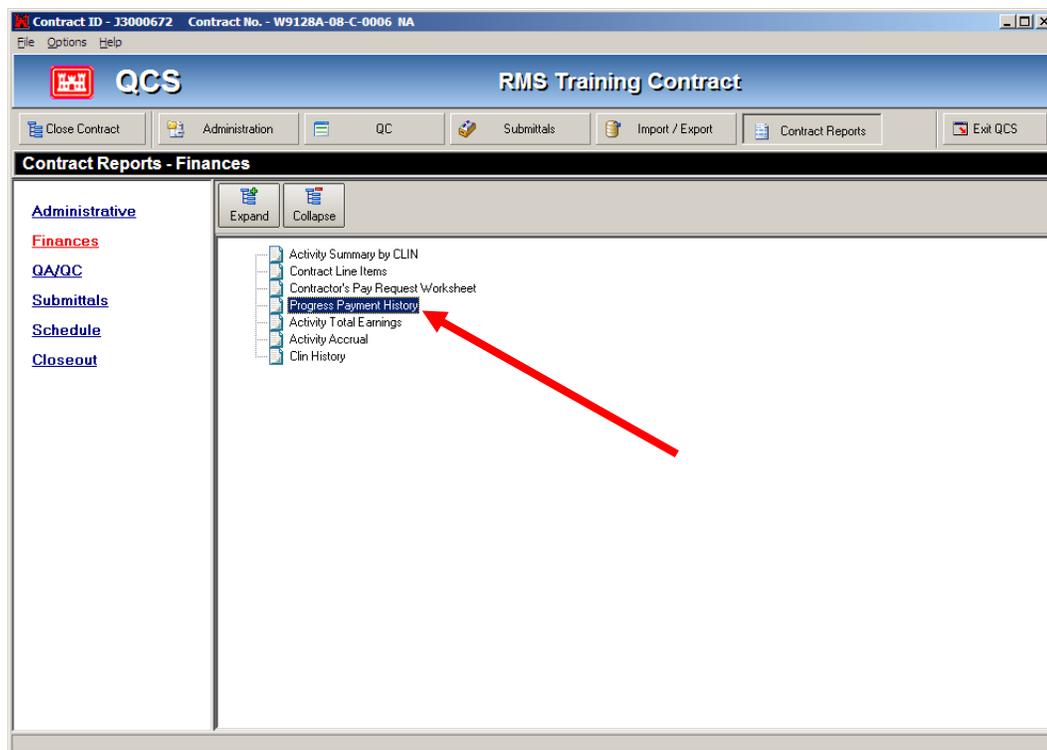
Exporting the Pay Request

When you are completed with entering the requested earnings (and deductions if appropriate), check the box “**Yes**” at the bottom right side of the previous screen. When this is checked, and the request is exported to the Government for processing, no further changes will be possible. All fields, on both tabs, will turn gray.

You are ready to export the pay request to the Government RMS system using the **Import/Export** button on the main **Contract Menu**.

Payment Reports

Using the **Contract Reports** button you may preview and print the available reports for payments for the contract. One of the reports available is the “Progress Payment History” report. The report is included on the next page for your information.



Progress Payment History - Report



US Army Corps
of Engineers

Progress Payment History

RMS Training Contract
W9128A-08-C-0006 NA

04 Nov 2009

Schofield Barracks Area Office

Payment No	Period Covered	Date Due	%	Earnings To Date	Retainage To Date	Deductions To Date	Paid To Date	Earnings This Period	Paid This Period
1	04/23/2008 - 08/15/2008	09/17/2008	6%	\$664,761.00	\$0.00	\$0.00	\$664,761.00	\$664,761.00	\$664,761.00
2	08/16/2008 - 11/15/2008	12/01/2008	10%	\$1,115,279.00	\$0.00	\$0.00	\$1,115,279.00	\$450,518.00	\$450,518.00
3	11/16/2008 - 12/15/2008	01/01/2009	12%	\$1,314,249.00	\$0.00	\$0.00	\$1,314,249.00	\$198,970.00	\$198,970.00
4	12/16/2008 - 01/15/2009	02/09/2009	16%	\$1,772,287.00	\$0.00	\$0.00	\$1,772,287.00	\$458,038.00	\$458,038.00
5	01/16/2009 - 02/15/2009	03/11/2009	20%	\$2,277,685.00	\$0.00	\$28,558.00	\$2,249,127.00	\$505,398.00	\$476,840.00
6	02/16/2009 - 03/15/2009	04/09/2009	35%	\$3,934,799.50	\$0.00	\$64,108.00	\$3,870,691.50	\$1,657,114.50	\$1,621,564.50
7	03/16/2009 - 04/15/2009	05/07/2009	53%	\$5,849,670.00	\$0.00	\$74,108.00	\$5,775,562.00	\$1,914,870.50	\$1,904,870.50
8	04/16/2009 - 05/15/2009	06/01/2009	56%	\$6,277,596.00	\$0.00	\$74,108.00	\$6,203,488.00	\$427,926.00	\$427,926.00
9	05/16/2009 - 06/05/2009	07/07/2009	63%	\$7,042,493.50	\$0.00	\$74,108.00	\$6,968,385.50	\$764,897.50	\$764,897.50
10	06/06/2009 - 07/06/2009	08/03/2009	69%	\$7,696,076.60	\$0.00	\$74,108.00	\$7,621,968.60	\$653,583.10	\$653,583.10
11	07/07/2009 - 08/12/2009	08/28/2009	80%	\$8,886,365.35	\$0.00	\$171,179.42	\$8,715,185.93	\$1,190,288.75	\$1,093,217.33
12	08/13/2009 - 09/11/2009	09/28/2009	86%	\$9,598,450.20	\$0.00	\$171,179.42	\$9,427,270.78	\$712,084.85	\$712,084.85

Contractor: RMS Manual

Chapter 7 – Exchanging Data

Overview



The QCS program allows the contractor to exchange data electronically with the government and remote QCS Sites. There are two general periods: Initial Planning/Scheduling and Contract Progress. An overview of each follows.

QC Planning and Contract Scheduling:

1. **Government:** Design work must be complete and all data should be entered into RMS before work with the QCS module begins. Otherwise, data may be overwritten. When the design work is complete and the contract is awarded, export of the data will go to the contractor. This data can then be used as the starting point for the contractor's own planning. The Award Appropriation and Award Contract Line Items (CLINs) must be entered and exported before the contractor can complete pay activity entries. 
2. **Contractor:** When entering pay activities, be sure the CLIN item numbers are exactly the same as those used by the Government. Pay particular attention to leading zeros, number of digits and justification. Data can be exported in SDEF (see note below) from other planning software and either imported into the QCS program or manually entered.
3. **Government:** Import the contractor's data. Changes made by the contractor are placed in a temporary holding area and do not overwrite any existing data in RMS until approved by the Government. Generally, additions do not require Government approval with the exception of pay activities that must be approved or disapproved. All Changes can be approved in one step or optionally each change can be approved or disapproved separately.
4. Export the data to the contractor. The approvals and disapprovals as well as changes made by the Government will be included in the export.
5. Repeat steps 2 and 3 until the contractor planning work is complete. Once the planning and scheduling are complete and the actual work has begun, the data entry switches to the ongoing work of the construction.

Contract Progress: Daily QC Reports, Payments & Transmittal Log

1. **Contractor:** Import QA Daily Update data regularly from the government. Enter any data for the daily report, payments or transmittals. Check for items returned by the Government, e.g. QC requirements that have been reissued. Export the data to the Government; include in the export only those items that have been changed. A printed, signed Daily QC Report must also be provided to the Government and is the official legal document. In addition, if the Master QCS site has delegated certain areas of QCS to be managed by other remote QCS sites, it is important that the Master QCS receive regular updates, either from the remote QCS sites or from the Government.
2. **Government:** Import and review the QC Daily Report, pay requests, and transmittals from the contractor. Enter the government's daily report, modifications and payments processed, submittals approved, etc.
3. Export the data to the contractor.
4. Repeat steps 1 and 2 on a regular basis for the life of the project. Data exchanges are done according to the needs of the contract, but the more frequent the exchanges, the more current the data will be. Some projects have daily or even twice daily exchanges.

General Guidelines

- A. If the Government makes changes to the Contractor's data, they will overwrite the Contractor's data unless the Contractor has also made changes to the same data.
- B. If the Contractor is using planning software other than, or in addition to, the QC module, any Government changes must be manually entered into that system so that it stays current.

Steps to Importing or Exporting

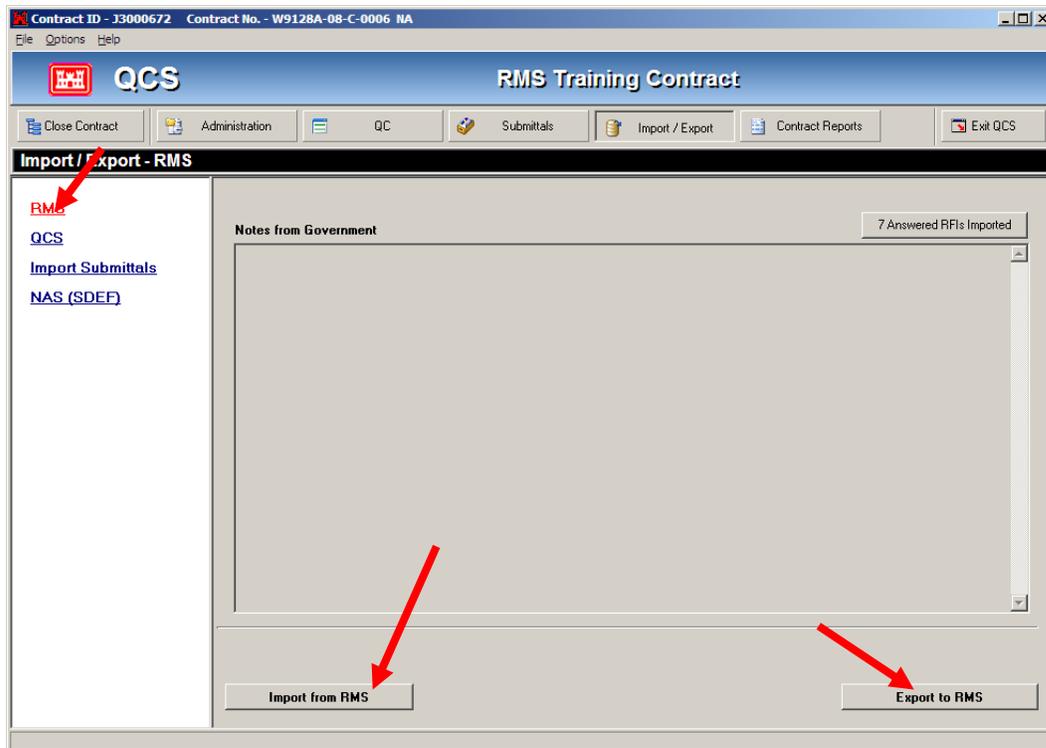
These are the basic steps for importing and exporting data in QCS. Import and export screens are shown along with a list of the possible import/export choices.

1. You must be at a **Contract Menu** in order to have access to the **Import/Export** button.
2. From a **Contract Menu**, push the **Import/Export** button.
3. Upon selecting **RMS**, you can either import or export data from/to the Government.
4. Upon selecting **QCS**, you can import/export to any remote QCS Sites that have been identified. You will also be able to view any QCS Sites from this screen.
5. When you select **Import Submittals**, you import Submittals from a special **Excel** template. The template can be downloaded from the RMS/QCS website.

6. Upon selecting **NAS (SDEF)**, the only choice is to import from the scheduling system.

Import/Export Screen -- RMS

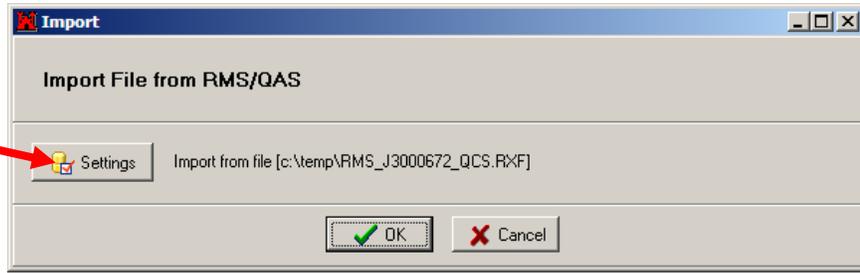
From **RMS**, you can import from or export to the Government.



Import RMS/QAS Data from Government - File

Push the **Import from RMS** button to begin. You are then presented with a window to identify the file you wish to import. You will notice the **Settings** button on the left; this will determine where you get the file to import. It will come from either a file provided to you by the Government (i.e., via email, disk, etc), or you can import the file from the RMS SFTP site (which is the preferred method).

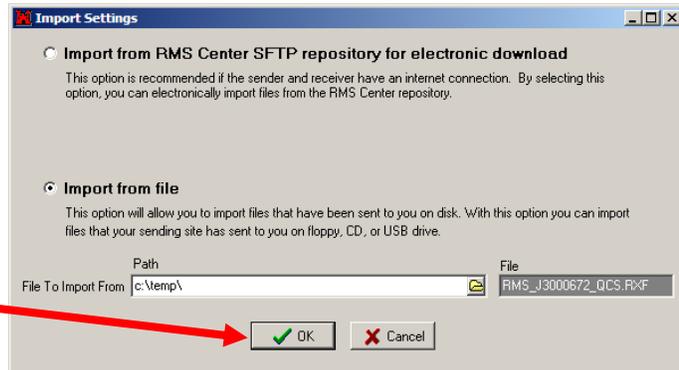
Push the **Settings** button to view the choices.



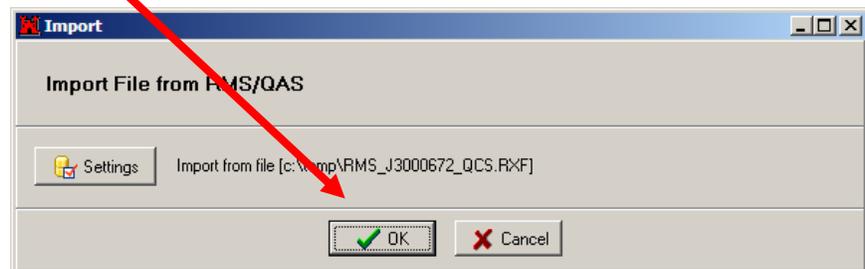
Use the lookup (ellipses) to locate the file with the Windows Explorer.

The RMS program is designed to name the export file with a prefix of "RMS_", followed by the contract ID number, and the suffix "QCX".

Press **OK** to begin the import (twice).

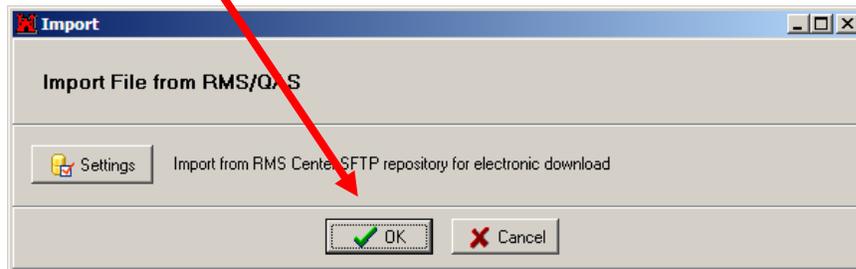


The files will then be imported into QCS.



Import RMS Data from Government – SFTP

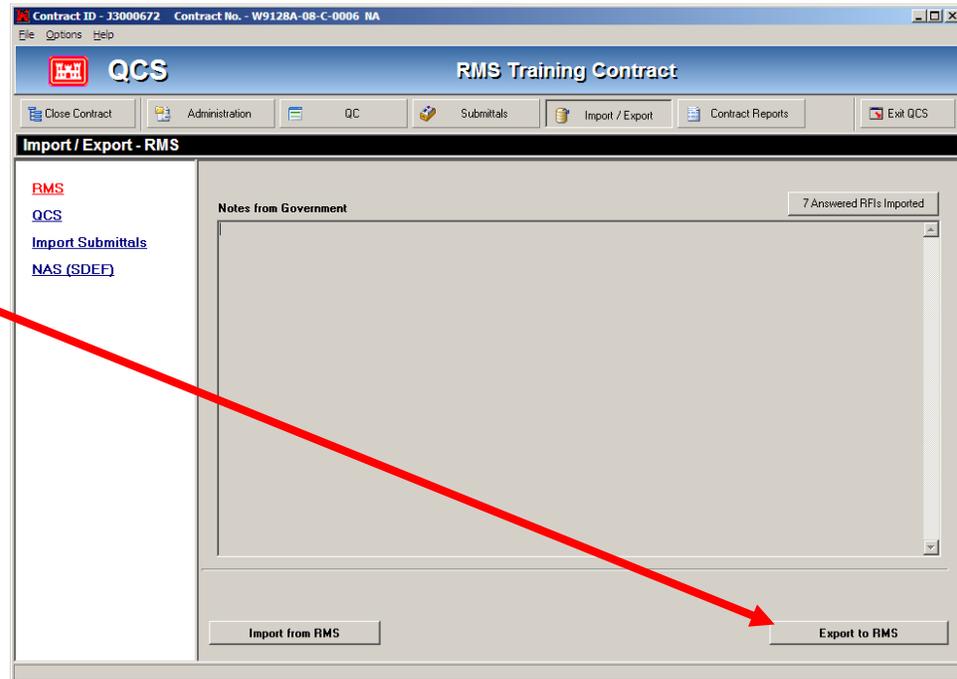
This procedure is the same as above, except you choose **Import from RMS Center SFTP repository for electronic download**. Then press **OK** (twice) to accomplish the import.



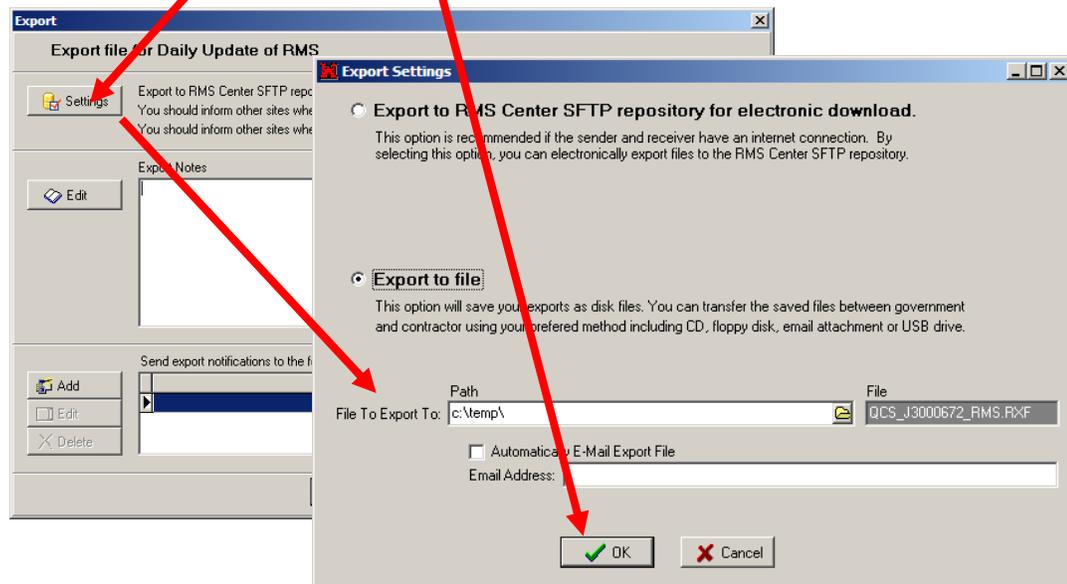
Export QCS Data to the Government – File

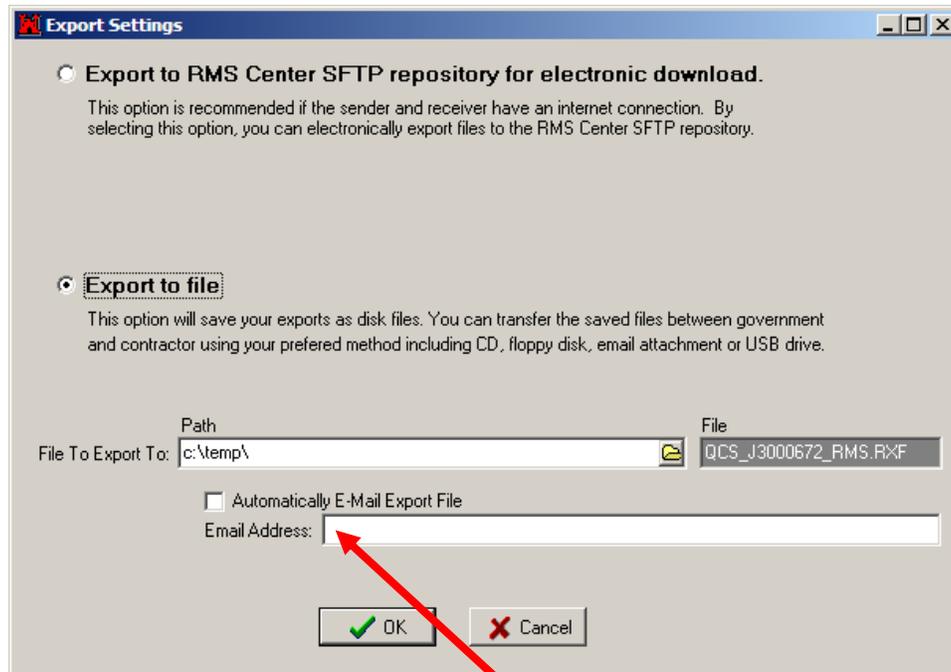
The procedure used to Export QCS data to the Government is similar to that of the previous Import process.

From the **Import / Export** screen, push the **Export to RMS** button.



As before, push the **Settings** button to choose the method of export. The QCS program is designed to name the export ZIP file with a prefix of "QCS_", followed by the contract ID number, and then the suffix RMS, as seen below. Choose **Export to File** and indicate the name and location of the file to export. Press **OK**.

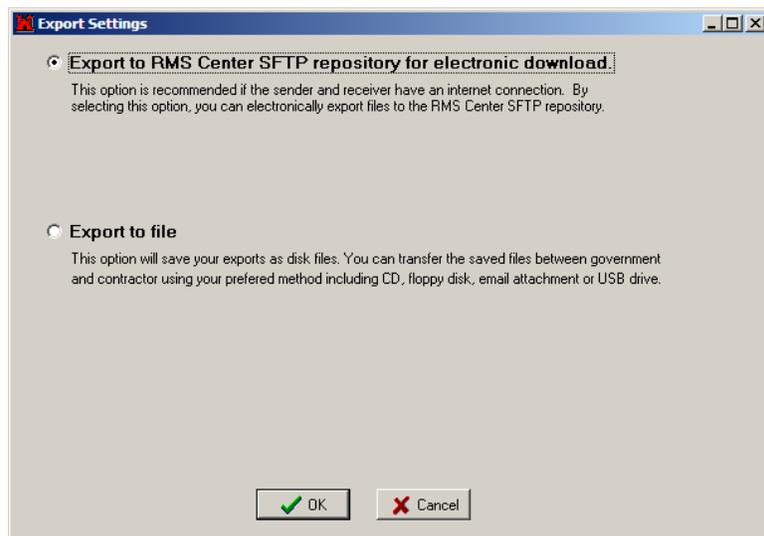




QCS will export the file to the designated location. You can also automatically email the file to someone, or otherwise provide the file to the Government so they can import it into RMS or QAS.

Export QCS Data to the Government – SFTP

The preferred method of export is to make use of the RMS Center SFTP repository site as above. From the **Settings** button, you simply check **Export to RMS Center SFTP repository for electronic download into QCS** and press the **OK** button.



Importing the SDEF file into the QCS program

From the top menu bar, select **Import/Export** and **NAS (SDEF)**.

Indicate what you would like to import

Numerous import options are available. Click (or un-click) the desired options.



Be careful what you import from the scheduling program. For example, if you have manually loaded **Features of Work** into QCS, and have not also loaded them into your scheduling program (e.g., P3), an import of **Features of Work** will erase them in QCS. (It will actually replace your manual entries in QCS with “blanks” – because that’s what you asked it to do. You’ll hate it when that happens!)

Contract ID - J3000672 Contract No. - W9128A-08-C-0006 NA

File Options Help

QCS RMS Training Contract

Close Contract Administration QC Submittals Import / Export Contract Reports Exit QCS

Import / Export - NAS (SDEF)

[RMS](#)
[QCS](#)
[Import Submittals](#)
[NAS \(SDEF\)](#)

Import from Network Analysis System

- Activity Schedule
- Pay Request No. 13
- Prime Contractor / Subcontractors
- Features of Work
- Contract Phase
- Project Area
- Work Category

The following Modules are updated from your Network Analysis System [SDEF].
All of the following modules must be assigned to this site prior to importing the SDEF file.

Pay Activities [GQNFRC46] Manuals

Activity Schedule [GQNFRC46] Manuals

Progress Payments [GQNFRC46] Manuals

Prime Contractor / Subcontractors [GQNFRC46] Manuals

Features of Work [GQNFRC46] Manuals

Import from Network Analysis System

Import SDEF file

Click the **Import SDEF File** button at the bottom of the screen

Activity Schedule Pointers

A critical item for the Contractor, when preparing an updated schedule is ensuring that the Scheduler has used the correct Actual Start and Finish dates of activities as reported on the jobsite. A new report has been added in RMS and QCS that identifies all activities that have had

an Actual Start or Actual Finish since the last schedule update was imported into QCS. This report will greatly assist the Scheduler in preparing the next update.

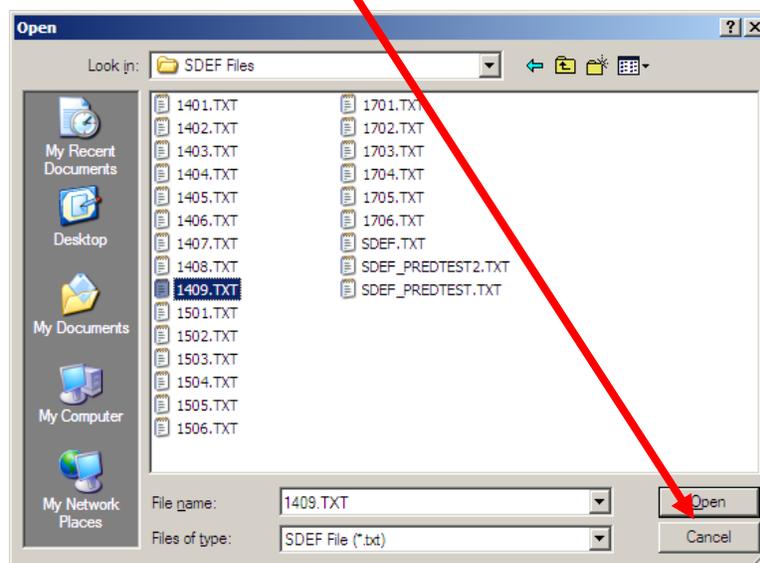
When QCS is asked to import an **Activity Schedule** update it will check the SDEF file to ensure that the Scheduler has used the Actual Start and Actual Finish dates as were entered in the Daily QC Reports. If the dates do not match, QCS does not allow the updated schedule to be imported. In order to assist the Contractor in managing these dates, QCS provides a second report that specifically addresses all differences between the dates from the Daily QC Report and the dates from the SDEF File. This report is an error report labeled: ***Invalid Actual Starts/Finish Dates on Schedule***

In the event the Contractor determines that the Actual Dates in the Daily QC Report are incorrect, the Government can mark the Daily QC Report — **“Return to Contractor for corrections”** and export it back to the Contractor. The Contractor is then able to access the report, correct the dates, and send the report back to the Government.

If QCS will not import the updated schedule due to the dates not matching, it will still import all the other data from the SDEF file, including a Pay Request.

Locate the SDEF file

Locate and highlight the **SDEF** file generated in your scheduling program (I.e., P3) using the Windows© explorer. Press the **Open** button.

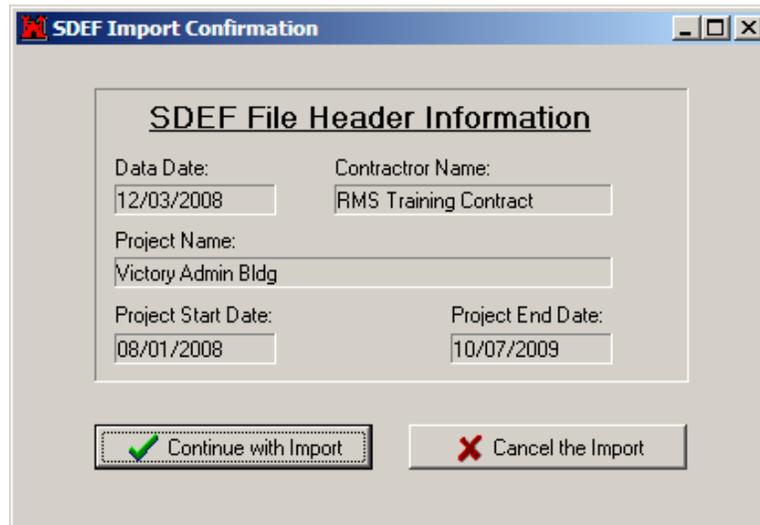


The program will load the selected **SDEF** file and provide a window wherein you confirm you have selected the desired contract to import.



Confirm proper contract has been selected

Confirm the proper contract is indicated and push the “Continue with Import” button. (If not correct **cancel the Import**,)



SDEF Import Confirmation

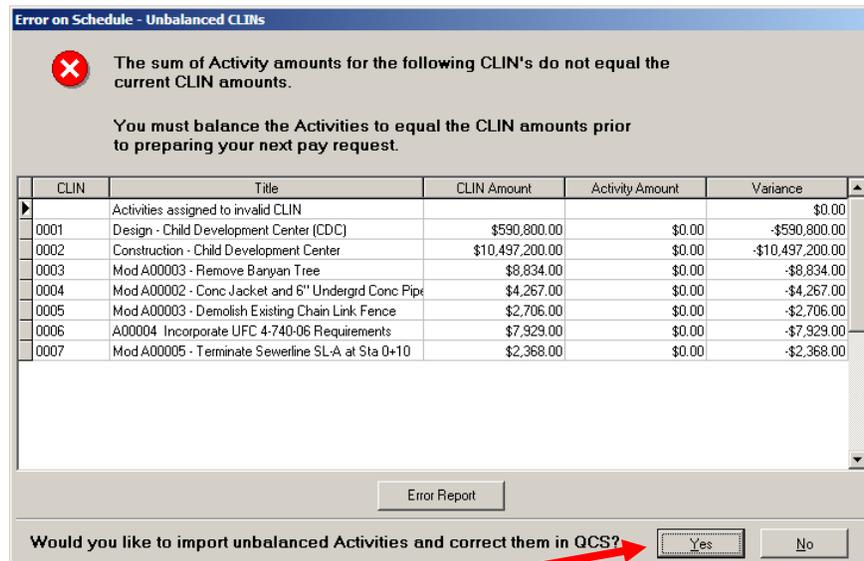
SDEF File Header Information

Data Date: 12/03/2008 Contractor Name: RMS Training Contract

Project Name: Victory Admin Bldg

Project Start Date: 08/01/2008 Project End Date: 10/07/2009

If there are errors encountered with the SDEF Import, warning messages will appear, such as:



Error on Schedule - Unbalanced CLINs

 The sum of Activity amounts for the following CLIN's do not equal the current CLIN amounts.

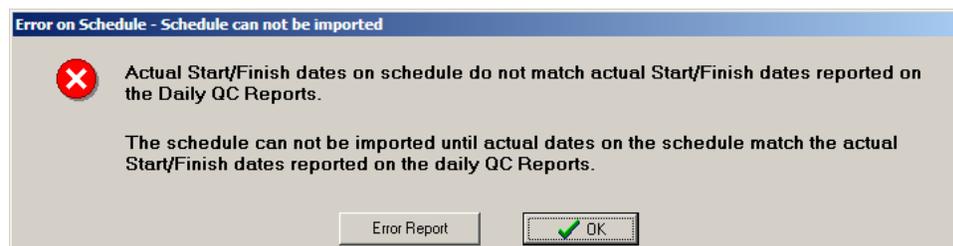
You must balance the Activities to equal the CLIN amounts prior to preparing your next pay request.

CLIN	Title	CLIN Amount	Activity Amount	Variance
	Activities assigned to invalid CLIN			\$0.00
0001	Design - Child Development Center (CDC)	\$590,800.00	\$0.00	-\$590,800.00
0002	Construction - Child Development Center	\$10,497,200.00	\$0.00	-\$10,497,200.00
0003	Mod A00003 - Remove Banyan Tree	\$8,834.00	\$0.00	-\$8,834.00
0004	Mod A00002 - Conc Jacket and 6" Undergrd Conc Pipe	\$4,267.00	\$0.00	-\$4,267.00
0005	Mod A00003 - Demolish Existing Chain Link Fence	\$2,706.00	\$0.00	-\$2,706.00
0006	A00004 Incorporate UFC 4-740-06 Requirements	\$7,929.00	\$0.00	-\$7,929.00
0007	Mod A00005 - Terminate Sewerline SL-A at Sta 0+10	\$2,368.00	\$0.00	-\$2,368.00

Error Report

Would you like to import unbalanced Activities and correct them in QCS?

If you check the **Yes** button you may get the following message:



Error on Schedule - Schedule can not be imported

 Actual Start/Finish dates on schedule do not match actual Start/Finish dates reported on the Daily QC Reports.

The schedule can not be imported until actual dates on the schedule match the actual Start/Finish dates reported on the daily QC Reports.

Error Report

Quality Control System

If you want to balance the Activity amounts in your schedule, or if you have inadvertently imported a wrong SDEF file, be sure to click **NO** on the above screen. Otherwise, the program will continue and automatically complete the import for items other than the Schedule. Then you will have to rebalance your QCS data.

Activity ID	Activity Description	CLIN	Amount
CC014010	CLIN 0001AB Procurement/Constr	0001AB	\$9,667,906.00
CC014030	CLIN 0001AB Construction/GC's	0001AC	\$354,018.00
CC022000	CLIN 0002AB General Conditions	0002AB	\$3,185,099.00
CC023000	CLIN 0002 Procurement	0002AB	\$0.00
CC023000	Start Procurements	0002AB	\$0.00
CC023010	Perini Release Butler for Fabr	0002AB	\$0.00
CC023020	Butler Procures Building	0002AB	\$0.00
CC023030	Butler Fabricates Building and	0002AB	\$0.00
CC023040	Butler Building/Metal Deck is	0002AB	\$0.00
CC023050	Butler Building/Metal Deck Tra	0002AB	\$0.00
CC023060	Butler Building/Metal Deck is	0002AB	\$0.00
CC023070	Butler Building/Metal Deck is	0002AB	\$3,165,589.00
CC023100	USACE E-Glass Received at Kuwa	0002AB	\$0.00
CC023140	Perini Transports E-Glass to S	0002AB	\$0.00
CC023160	E-Glass Received at Site	0002AB	\$0.00
CC023200	Perini Issues PO for Sandwich	0002AB	\$0.00
CC023210	Procure Sandwich Panels	0002AB	\$0.00

CLIN	Current Contract	\$11,114,104.00
Sum of Activities	Sum of All Activities	\$37,738,989.00
Variance	Variance	-\$26,624,885.00

If your scheduling program SDEF (e.g. P3) has included a Pay Request, the following message will appear:

SDEF Payment Import Notification

Pay request has been imported.

OK

Approve (or Disapprove) the imported items

If your Actual Start/Finish Dates agree (between QCS and your Schedule) the schedule will be imported. You must then approve (or disapprove) the items imported.

The TAB labeled “Current Activity Schedule” will reflect the one you just imported via the SDEF file. At the bottom of the screen is where you will indicate your approval or disapproval.

Contract ID - P0011845 Contract No. - W912ER-04-D-0008 0014

File Options Help

QCS MV/Construct Large Admin Building VBC

Close Contract Administration QC Submittals Import / Export Contract Reports Exit QCS

QC - Activity Schedule

Current Activity Schedule Previous Accepted Schedule

Find Summary Compare All Activities

Activity Number	Activity Description	Early Start	Early Finish	Late Start	Late Finish	Status
10000	Award Contract / NTP for Desig	08/14/08A	08/14/08A			Finished
10010	Notice to Proceed for Construc	10/28/08A	10/28/08A			Finished
10020	Period of Performance (330 Cal	10/29/08A	10/14/09		10/14/09	In Progress
10030	Pre-Construction Conference	09/03/08A	09/03/08A			Finished
10040	Kick off Meeting/Design Concep	09/03/08A	09/03/08A			Finished
10060	Project Activation/Mobilizatio	08/15/08A	11/30/08A			Finished
10100	Transfer Employees Out of Exis	12/02/08A	12/01/08A			Finished
101000	Prepare Concept Review CFC Sub	08/27/08A	08/29/08A			Finished
101010	Submit Concept Review CFC Subm	08/30/08A	08/29/08A			Finished
101020	USACE Rev/Comm Concept Rev CFC	09/02/08A	09/11/08A			Finished
101030	Concept Review CFC Submittal (09/12/08A	09/11/08A			Finished
101040	Prepare Preliminary CFC Submitt	09/12/08A	10/02/08A			Finished
101050	Submit Preliminary Review CFC	10/03/08A	10/02/08A			Finished
101060	USACE Rev/Comm Preliminary CFC	10/03/08A	10/23/08A			Finished
101070	Preliminary CFC Submittal (65%	10/24/08A	10/23/08A			Finished
101080	Prep Pre-Final Design Review C	10/24/08A	10/30/08A			Finished
101090	Submit Pre-Final Dsgn Review C	10/31/08A	10/30/08A			Finished
10120	Demo Existing JAG Building	12/09/08A	12/21/08A			Finished
101200	USACE Rev Pre-Final Dsgn Rev C	10/31/08A	11/17/08A			Finished
101210	Pre-Final Dsgn Review CFC Subm	11/18/08A	11/17/08A			Finished
101220	Prepare Final Design Review CF	11/18/08A	12/02/08A			Finished

Current Activity Schedule imported on 12/05/2009

The TAB labeled “Previous Accepted Schedule” reflects the schedule prior to the SDEF import.

Once you approve the import on the first tab, that data will then move to this tab and become your current schedule.

Contract ID - P0011845 Contract No. - W912ER-04-D-0008 0014

File Options Help

QCS MV/Construct Large Admin Building VBC

Close Contract Administration QC Submittals Import / Export Contract Reports Exit QCS

QC - Activity Schedule

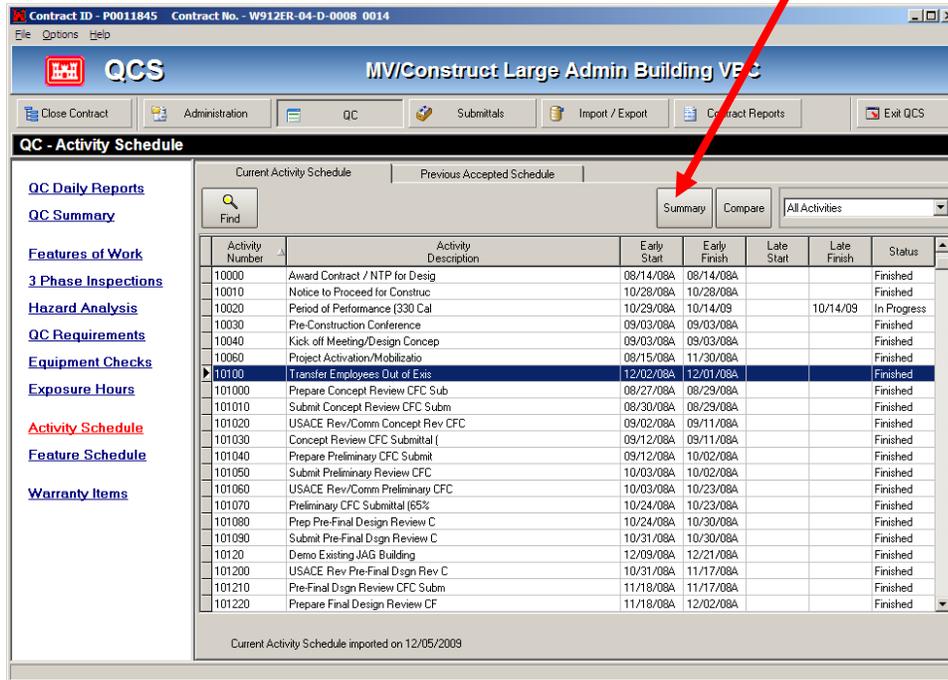
Current Activity Schedule Previous Accepted Schedule

Find Summary Compare All Activities

Activity Number	Activity Description	Early Start	Early Finish	Late Start	Late Finish	Status

Review Summary of Schedules

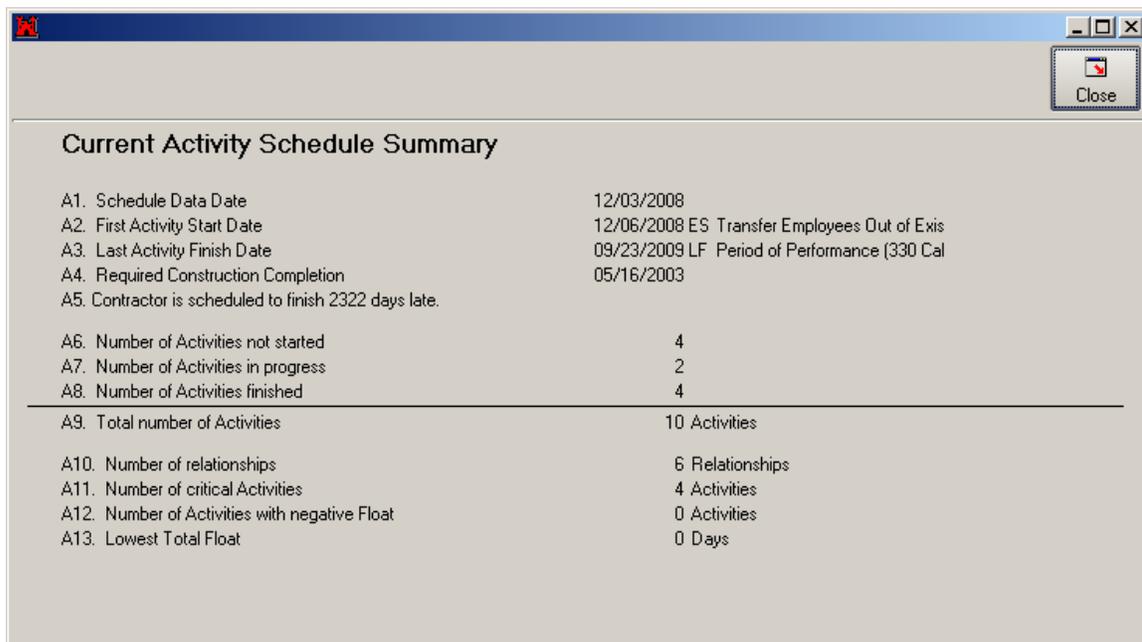
Prior to approving your imported file, it is recommended that you review the Summary using the button at the top of the screen.



The screenshot shows the QCS software interface for 'MV/Construct Large Admin Building VFC'. The 'QC - Activity Schedule' window is open, displaying a table of activities. A red arrow points to the 'Summary' button located at the top right of the window, above the table. The table lists activities with columns for Activity Number, Activity Description, Early Start, Early Finish, Late Start, Late Finish, and Status. Activity 10100 is highlighted.

Activity Number	Activity Description	Early Start	Early Finish	Late Start	Late Finish	Status
10000	Award Contract / NTP for Desig	08/14/08A	08/14/08A			Finished
10010	Notice to Proceed for Construc	10/28/08A	10/28/08A			Finished
10020	Period of Performance (330 Cal	10/29/08A	10/14/09		10/14/09	In Progress
10030	Pre-Construction Conference	09/03/08A	09/03/08A			Finished
10040	Kick off Meeting/Design Concep	09/03/08A	09/03/08A			Finished
10060	Project Activation/Mobilizatio	08/15/08A	11/30/08A			Finished
10100	Transfer Employees Out of Exis	12/02/08A	12/01/08A			Finished
101000	Prepare Concept Review CFC Sub	08/27/08A	08/29/08A			Finished
101010	Submit Concept Review CFC Subm	08/30/08A	08/29/08A			Finished
101020	USACE Rev/Comm Concept Rev CFC	09/02/08A	09/11/08A			Finished
101030	Concept Review CFC Submittal (09/12/08A	09/11/08A			Finished
101040	Prepare Preliminary CFC Submit	09/12/08A	10/02/08A			Finished
101050	Submit Preliminary Review CFC	10/03/08A	10/02/08A			Finished
101060	USACE Rev/Comm Preliminary CFC	10/03/08A	10/23/08A			Finished
101070	Preliminary CFC Submittal (65%	10/24/08A	10/23/08A			Finished
101080	Prep Pre-Final Design Review C	10/24/08A	10/30/08A			Finished
101090	Submit Pre-Final Dsgn Review C	10/31/08A	10/30/08A			Finished
10120	Demo Existing JAG Building	12/09/08A	12/21/08A			Finished
101200	USACE Rev Pre-Final Dsgn Rev C	10/31/08A	11/17/08A			Finished
101210	Pre-Final Dsgn Review CFC Subm	11/18/08A	11/17/08A			Finished
101220	Prepare Final Design Review CF	11/18/08A	12/02/08A			Finished

Current Activity Schedule imported on 12/05/2009

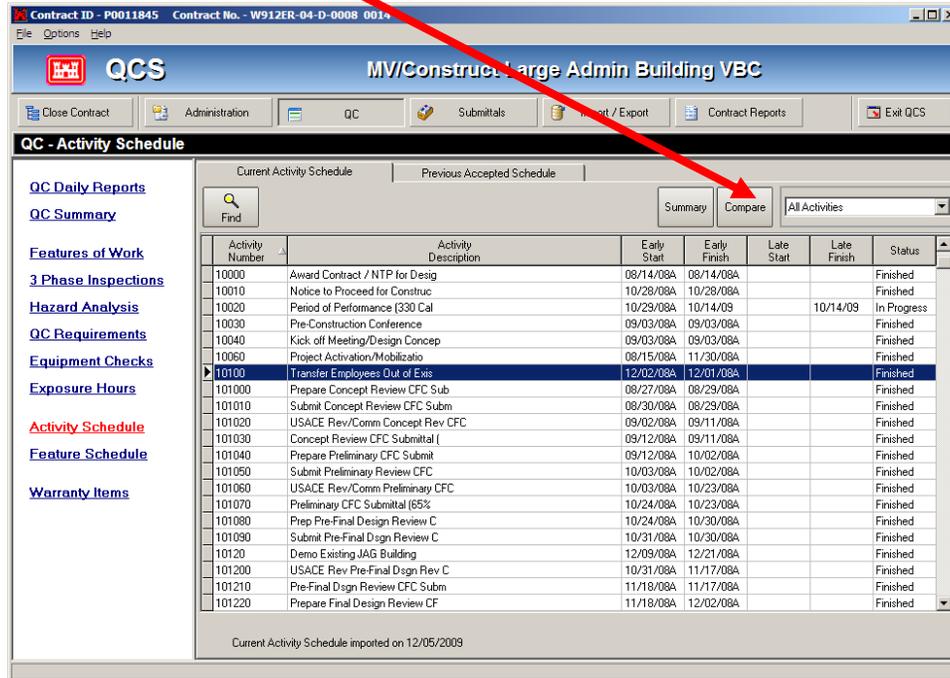


The screenshot shows the 'Current Activity Schedule Summary' dialog box. It displays a list of summary items (A1 through A13) and their corresponding values. A 'Close' button is visible in the top right corner.

A1. Schedule Data Date	12/03/2008
A2. First Activity Start Date	12/06/2008 ES Transfer Employees Out of Exis
A3. Last Activity Finish Date	09/23/2009 LF Period of Performance (330 Cal
A4. Required Construction Completion	05/16/2003
A5. Contractor is scheduled to finish 2322 days late.	
A6. Number of Activities not started	4
A7. Number of Activities in progress	2
A8. Number of Activities finished	4
A9. Total number of Activities	10 Activities
A10. Number of relationships	6 Relationships
A11. Number of critical Activities	4 Activities
A12. Number of Activities with negative Float	0 Activities
A13. Lowest Total Float	0 Days

Compare Proposed Update to Previous Schedule

You should also “Compare” the current schedule with the newly imported schedule to confirm you want to approve it.



The screenshot displays the QCS software interface for 'MV/Construction Large Admin Building VBC'. The window title is 'Contract ID - P0011845 Contract No. - W912ER-04-D-0008 0014'. The main menu includes 'File', 'Options', and 'Help'. The 'QC - Activity Schedule' window is open, showing a comparison between the 'Current Activity Schedule' and the 'Previous Accepted Schedule'. The 'Compare' button is highlighted with a red arrow.

Activity Number	Activity Description	Early Start	Early Finish	Late Start	Late Finish	Status
10000	Award Contract / NTP for Desig	08/14/08A	08/14/08A			Finished
10010	Notice to Proceed for Construc	10/28/08A	10/28/08A			Finished
10020	Period of Performance (330 Cal	10/29/08A	10/14/09		10/14/09	In Progress
10030	Pre-Construction Conference	09/03/08A	09/03/08A			Finished
10040	Kick off Meeting/Design Concep	09/03/08A	09/03/08A			Finished
10060	Project Activation/Mobilizatio	08/15/08A	11/30/08A			Finished
10100	Transfer Employees Out of Exis	12/02/08A	12/01/08A			Finished
101000	Prepare Concept Review CFC Sub	08/27/08A	08/29/08A			Finished
101010	Submit Concept Review CFC Subm	08/30/08A	08/29/08A			Finished
101020	USACE Rev/Comm Concept Rev CFC	09/02/08A	09/11/08A			Finished
101030	Concept Review CFC Submittal (09/12/08A	09/11/08A			Finished
101040	Prepare Preliminary CFC Submit	09/12/08A	10/02/08A			Finished
101050	Submit Preliminary Review CFC	10/03/08A	10/02/08A			Finished
101060	USACE Rev/Comm Preliminary CFC	10/03/08A	10/23/08A			Finished
101070	Preliminary CFC Submittal (65%	10/24/08A	10/23/08A			Finished
101080	Prep Pre-Final Design Review C	10/24/08A	10/30/08A			Finished
101090	Submit Pre-Final Dsgn Review C	10/31/08A	10/30/08A			Finished
10120	Demo Existing JAG Building	12/09/08A	12/21/08A			Finished
101200	USACE Rev Pre-Final Dsgn Rev C	10/31/08A	11/17/08A			Finished
101210	Pre-Final Dsgn Review CFC Subm	11/18/08A	11/17/08A			Finished
101220	Prepare Final Design Review CF	11/18/08A	12/02/08A			Finished

Current Activity Schedule imported on 12/05/2009

This selection will show you the comparison is quite some detail, as shown on the following three pages.

Compare Proposed Update to Previous Schedule – Report Page 1 of 3



US Army Corps
of Engineers

Compare Proposed Update to Previous Schedule

04 Nov 2009

TEST PROJECT
DACA83-00-C-0033 NA

Construction Services Section

Data Dates																																																																		
Current Schedule calculated on 12/03/2008	Previous Schedule calculated on 12/03/2008																																																																	
Construction Start	Construction Finish																																																																	
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 35%; text-align: center;">Current</th> <th style="width: 35%; text-align: center;">Previous</th> </tr> </thead> <tbody> <tr> <td>Schedule Start Date</td> <td style="text-align: center;">08/01/2008</td> <td style="text-align: center;">08/01/2008</td> </tr> <tr> <td>Notice to Proceed</td> <td style="text-align: center;">08/11/2001</td> <td style="text-align: center;">08/11/2001</td> </tr> <tr> <td>First Activity Start</td> <td style="text-align: center;">12/06/2008 ES</td> <td style="text-align: center;">12/06/2008 ES</td> </tr> <tr> <td>First Activity 10100</td> <td colspan="2">Transfer Employees Out of Exis</td> </tr> </tbody> </table> <p style="text-align: center; margin-top: 10px;">Need First Activity Date to perform calculation.</p>		Current	Previous	Schedule Start Date	08/01/2008	08/01/2008	Notice to Proceed	08/11/2001	08/11/2001	First Activity Start	12/06/2008 ES	12/06/2008 ES	First Activity 10100	Transfer Employees Out of Exis		<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 35%; text-align: center;">Current</th> <th style="width: 35%; text-align: center;">Previous</th> </tr> </thead> <tbody> <tr> <td>Schedule End Date</td> <td style="text-align: center;">10/07/2009</td> <td style="text-align: center;">10/07/2009</td> </tr> <tr> <td>Required Completion</td> <td style="text-align: center;">05/16/2003</td> <td style="text-align: center;">05/16/2003</td> </tr> <tr> <td>Last Activity Finish</td> <td style="text-align: center;">09/23/2009 LF</td> <td style="text-align: center;">01/23/2009 LF</td> </tr> <tr> <td>Last Activity 10020</td> <td colspan="2">Period of Performance (330 Cal</td> </tr> </tbody> </table> <p style="text-align: center; margin-top: 10px;">Contractor is scheduled to finish 2322 days late.</p>		Current	Previous	Schedule End Date	10/07/2009	10/07/2009	Required Completion	05/16/2003	05/16/2003	Last Activity Finish	09/23/2009 LF	01/23/2009 LF	Last Activity 10020	Period of Performance (330 Cal																																				
	Current	Previous																																																																
Schedule Start Date	08/01/2008	08/01/2008																																																																
Notice to Proceed	08/11/2001	08/11/2001																																																																
First Activity Start	12/06/2008 ES	12/06/2008 ES																																																																
First Activity 10100	Transfer Employees Out of Exis																																																																	
	Current	Previous																																																																
Schedule End Date	10/07/2009	10/07/2009																																																																
Required Completion	05/16/2003	05/16/2003																																																																
Last Activity Finish	09/23/2009 LF	01/23/2009 LF																																																																
Last Activity 10020	Period of Performance (330 Cal																																																																	
Activity Progress	Critical Activities																																																																	
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 35%; text-align: center;">Current</th> <th style="width: 35%; text-align: center;">Previous</th> </tr> </thead> <tbody> <tr> <td>Activities Not Started</td> <td style="text-align: center;">4</td> <td style="text-align: center;">9</td> </tr> <tr> <td>Activities In Progress</td> <td style="text-align: center;">2</td> <td style="text-align: center;">1</td> </tr> <tr> <td>Activities Finished</td> <td style="text-align: center;">4</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Total all Activities</td> <td style="text-align: center;">10</td> <td style="text-align: center;">10</td> </tr> </tbody> </table> <p style="text-align: center; margin-top: 10px;">Number of Activites scheduled to Start/Finish in next 30 days</p> <table style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>Scheduled Early Start</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Scheduled Late Start</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Scheduled Early Finish</td> <td style="text-align: center;">1</td> </tr> <tr> <td>Scheduled Late Finish</td> <td style="text-align: center;">1</td> </tr> </tbody> </table> <p style="text-align: center; margin-top: 10px;">40% of Activities Finished</p>		Current	Previous	Activities Not Started	4	9	Activities In Progress	2	1	Activities Finished	4	0	Total all Activities	10	10	Scheduled Early Start	0	Scheduled Late Start	0	Scheduled Early Finish	1	Scheduled Late Finish	1	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 35%; text-align: center;">Current</th> <th style="width: 35%; text-align: center;">Previous</th> </tr> </thead> <tbody> <tr> <td>Critical Activities</td> <td style="text-align: center;">4</td> <td style="text-align: center;">8</td> </tr> <tr> <td>Negative Float Activities</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Number of Relationships</td> <td style="text-align: center;">6</td> <td style="text-align: center;">26</td> </tr> <tr> <td>Low est Total Float</td> <td style="text-align: center;">0 days</td> <td style="text-align: center;">0 days</td> </tr> </tbody> </table> <p style="text-align: center; margin-top: 10px;">Contractors with the most remaining Critical Activities</p> <table style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>Contractor A</td> <td style="text-align: center;">2</td> </tr> <tr> <td>OWN</td> <td style="text-align: center;">2</td> </tr> </tbody> </table> <p style="text-align: center; margin-top: 10px;">100% of Activities Not Started are Critical</p>		Current	Previous	Critical Activities	4	8	Negative Float Activities	0	0	Number of Relationships	6	26	Low est Total Float	0 days	0 days	Contractor A	2	OWN	2																							
	Current	Previous																																																																
Activities Not Started	4	9																																																																
Activities In Progress	2	1																																																																
Activities Finished	4	0																																																																
Total all Activities	10	10																																																																
Scheduled Early Start	0																																																																	
Scheduled Late Start	0																																																																	
Scheduled Early Finish	1																																																																	
Scheduled Late Finish	1																																																																	
	Current	Previous																																																																
Critical Activities	4	8																																																																
Negative Float Activities	0	0																																																																
Number of Relationships	6	26																																																																
Low est Total Float	0 days	0 days																																																																
Contractor A	2																																																																	
OWN	2																																																																	
Activity Changes	Schedule Changes																																																																	
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 80%;"></th> <th style="width: 20%; text-align: center;">Activities Changed</th> </tr> </thead> <tbody> <tr><td>A1. Activities added</td><td style="text-align: center;">0</td></tr> <tr><td>A2. Activities deleted</td><td style="text-align: center;">0</td></tr> <tr><td>A3. Description changed</td><td style="text-align: center;">0</td></tr> <tr><td>A4. CLIN changed</td><td style="text-align: center;">2</td></tr> <tr><td>A5. Unit Cost changed</td><td style="text-align: center;">0</td></tr> <tr><td>A6. Units changed</td><td style="text-align: center;">0</td></tr> <tr><td>A7. Quantity changed</td><td style="text-align: center;">0</td></tr> <tr><td>A8. Amount changed</td><td style="text-align: center;">2</td></tr> <tr><td>A9. Contractor changed</td><td style="text-align: center;">0</td></tr> <tr><td>A10. Feature changed</td><td style="text-align: center;">0</td></tr> <tr><td>A11. Area changed</td><td style="text-align: center;">0</td></tr> <tr><td>A12. Category changed</td><td style="text-align: center;">0</td></tr> <tr><td>A13. Phase changed</td><td style="text-align: center;">0</td></tr> <tr><td>A14. Duration changed</td><td style="text-align: center;">0</td></tr> <tr><td>A15. Workers changed</td><td style="text-align: center;">0</td></tr> </tbody> </table>		Activities Changed	A1. Activities added	0	A2. Activities deleted	0	A3. Description changed	0	A4. CLIN changed	2	A5. Unit Cost changed	0	A6. Units changed	0	A7. Quantity changed	0	A8. Amount changed	2	A9. Contractor changed	0	A10. Feature changed	0	A11. Area changed	0	A12. Category changed	0	A13. Phase changed	0	A14. Duration changed	0	A15. Workers changed	0	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 80%;"></th> <th style="width: 20%; text-align: center;">Activities Changed</th> </tr> </thead> <tbody> <tr><td>B1. Actual Starts</td><td style="text-align: center;">2</td></tr> <tr><td>B2. Actual Finishes</td><td style="text-align: center;">4</td></tr> <tr><td>B3. Should have started</td><td style="text-align: center;">0</td></tr> <tr><td>B4. Should have finished</td><td style="text-align: center;">0</td></tr> <tr><td>B5. Changed to Critical</td><td style="text-align: center;">0</td></tr> <tr><td>B6. Changed to not Critical</td><td style="text-align: center;">0</td></tr> <tr><td>B7. Early Start Date</td><td style="text-align: center;">0</td></tr> <tr><td>B8. Late Start Date</td><td style="text-align: center;">0</td></tr> <tr><td>B9. Early Finish Date</td><td style="text-align: center;">1</td></tr> <tr><td>B10. Late Finish Date</td><td style="text-align: center;">1</td></tr> <tr><td>B11. Total Float</td><td style="text-align: center;">0</td></tr> <tr><td>B12. Remaining Duration</td><td style="text-align: center;">0</td></tr> <tr><td>B13. Lag changed</td><td style="text-align: center;">0</td></tr> <tr><td>B14 A. Relationships added</td><td style="text-align: center;">0</td></tr> <tr><td>B14 B. Relationships deleted</td><td style="text-align: center;">20</td></tr> </tbody> </table>		Activities Changed	B1. Actual Starts	2	B2. Actual Finishes	4	B3. Should have started	0	B4. Should have finished	0	B5. Changed to Critical	0	B6. Changed to not Critical	0	B7. Early Start Date	0	B8. Late Start Date	0	B9. Early Finish Date	1	B10. Late Finish Date	1	B11. Total Float	0	B12. Remaining Duration	0	B13. Lag changed	0	B14 A. Relationships added	0	B14 B. Relationships deleted	20	
	Activities Changed																																																																	
A1. Activities added	0																																																																	
A2. Activities deleted	0																																																																	
A3. Description changed	0																																																																	
A4. CLIN changed	2																																																																	
A5. Unit Cost changed	0																																																																	
A6. Units changed	0																																																																	
A7. Quantity changed	0																																																																	
A8. Amount changed	2																																																																	
A9. Contractor changed	0																																																																	
A10. Feature changed	0																																																																	
A11. Area changed	0																																																																	
A12. Category changed	0																																																																	
A13. Phase changed	0																																																																	
A14. Duration changed	0																																																																	
A15. Workers changed	0																																																																	
	Activities Changed																																																																	
B1. Actual Starts	2																																																																	
B2. Actual Finishes	4																																																																	
B3. Should have started	0																																																																	
B4. Should have finished	0																																																																	
B5. Changed to Critical	0																																																																	
B6. Changed to not Critical	0																																																																	
B7. Early Start Date	0																																																																	
B8. Late Start Date	0																																																																	
B9. Early Finish Date	1																																																																	
B10. Late Finish Date	1																																																																	
B11. Total Float	0																																																																	
B12. Remaining Duration	0																																																																	
B13. Lag changed	0																																																																	
B14 A. Relationships added	0																																																																	
B14 B. Relationships deleted	20																																																																	

Compare Proposed Update to Previous Schedule – Report Page 2 of 3



US Army Corps
of Engineers

Compare Proposed Update to Previous Schedule

04 Nov 2009

TEST PROJECT
DACA83-00-C-0033 NA

Construction Services Section

A4. Activities with CLIN changed				
Activity ID	Description	New CLIN	Previous CLIN	
10100	Transfer Employees Out of Exis	0001	0007	
10120	Demo Existing JAG Building	0001	0003	
A8. Activities with Amount changed				
Activity ID	Description	New Amount	Previous Amount	
10100	Transfer Employees Out of Exis	\$4,000.00	\$500.00	
10120	Demo Existing JAG Building	\$1,000.00	\$5,000.00	
B1. Activities started since previous update				
Activity ID	Description	Actual Start	Amount	
10020	Period of Performance (330 Cal	10/29/2008	\$66,579.37	
B2. Activities finished since previous update				
Activity ID	Description	Actual Finish	Amount	
10000	Award Contract / NTP for Desig	08/14/2008	\$15,000.00	
10010	Notice to Proceed for Construc	10/28/2008	\$153,163.21	
10030	Pre-Construction Conference	09/03/2008	\$520,066.78	
10060	Project Activation/Mobilizatio	08/15/2008	\$456,987.00	
B9. Activities with early finish date changed				
Activity ID	Description	New Early Finish Date	Previous Early Finish Date	Difference
10020	Period of Performance (330 Cal	09/23/2009	12/05/2008	292 days
B10. Activities with late finish date changed				
Activity ID	Description	New Late Finish Date	Previous Late Finish Date	Difference
10020	Period of Performance (330 Cal	09/23/2009	12/05/2008	292 days
B14 B. Number of Relationships deleted				
Predecessor ID	Successor ID	Predecessor -> Successor	Relationship	Lag
10000		Award Contract / NTP for Desig		
	11000	->	Finish To Start	1 Day
	51000	->	Finish To Start	0 Days
	12000	->	Finish To Start	0 Days
	52000	->	Finish To Start	0 Days
	11200	->	Finish To Start	0 Days
	11300	->	Finish To Start	0 Days
	11040	->	Finish To Start	1 Day
	11240	->	Finish To Start	0 Days
10010		Notice to Proceed for Construc		
	31010	->	Finish To Start	0 Days
	11160	->	Finish To Start	0 Days
10020		Period of Performance (330 Cal		
	19960	->	Finish To Start	0 Days
	19920	->	Finish To Finish	0 Days
10030		Pre-Construction Conference		
	11200	->	Finish To Start	0 Days
	11040	->	Finish To Start	0 Days
	11240	->	Finish To Start	0 Days
	11080	->	Finish To Start	0 Days

Compare Proposed Update to Previous Schedule – Report Page 3 of 3



US Army Corps
of Engineers

Compare Proposed Update to Previous Schedule

04 Nov 2009

TEST PROJECT
DACA83-00-C-0033 NA

Construction Services Section

B14 B. Number of Relationships deleted

Predecessor ID	Successor ID	Predecessor -> Successor	Relationship	Lag
10060	31010	Project Activation/Mobilizatio ->	Finish To Start	0 Days
5200	55100	Design Duration - CLIN 0005 ->	Finish To Finish	0 Days
6500	65590	General Conditions - CLIN 0006 ->	Finish To Finish	0 Days

Verify that activities have been imported and are balanced

You may then go to **Administration** and **Pay Activities** to view your import.

Administration - Pay Activities

Activity ID	Activity Description	CLIN	Amount
ADA108	NTP	0001	\$0.00
ADA109	START PROJECT, BEGIN DESIGN	0001	\$0.00
ADA110	PERFORMANCE AND PAYMENT BOND	0002	\$49,852.00
ADA111	QC/SAFETY PLANS SUBMITTALS	0002	\$0.00
ADA120	GOV'T APPROVAL, PRE-CON SUBMIT	0002	\$0.00
ADA124	ENVIRONMENTAL PLANS, NPDES	0002	\$0.00
ADA128	1CONTRACT	0001	\$0.00
ADA132	MOBILIZATION	0002	\$0.00
ADA133	SET UP TRAILER OFFICES	0002	\$0.00
ADA134	CONSTRUCT FENCE	0002	\$211,349.00
A0B124	CIVIL/EARTHWORKS SUBMITTAL	0002	\$0.00
A0B125	PLUMBING, UNDERGROUND SUBMITTA	0002	\$0.00
A0B126	PLUMBING FIXTURES SUBMITTAL	0002	\$0.00
A0B1261	GOV'T APPROVAL Plumbing Fixtur	0002	\$0.00
A0B132	GOV'T APPROVAL Civil/Earthwork	0002	\$0.00
A0B1321	GOV'T APPROVAL Plumbing/Underg	0002	\$0.00
A0B1322	GOV'T APPROVAL Chilled Wtr Pip	0002	\$0.00

CLIN 0001	\$590,800.00	Current Contract	\$11,114,104.00
Sum of Activities	\$590,800.00	Sum of All Activities	\$11,114,104.00
Variance	\$0.00	Variance	\$0.00

You will not be able to export your activities to the Government's RMS program unless the sum of the activities is perfectly balanced, as will be indicated on the bottom of the window.

This completes the import process of the **SDEF** file.