

Three Phases of Control

MODULE 1: Introduction

Three Phases of Control

Requirements

The Three-Phase Control System requires the contractor to plan and schedule the work.



Contractor must be prepared in order to begin each new Definable Feature of Work. (DFOW).



Three Phases of Control

Welcome to Titan University's Quality Control course, Three Phases of Control.

The Three-Phase Control System requires the contractor to plan and schedule the work. This helps ensure the contractor is prepared to begin each new Definable Feature of Work. (DFOW).

The three phases of control are the core of the Construction Quality Management System and are included in your project's Quality Control Plan. When the actions are performed as outlined, success in completing the work to comply with requirements of the contract is enhanced.

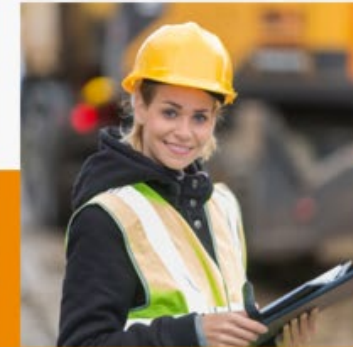
It's important that the QC Staff *not get into the habit* of only working to detect deficiencies when in fact their role is to prevent deficiencies. This can be achieved by taking care of deficiencies and documentation as soon as they are discovered.

Three Phases of Control

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Requirements

The Three-Phase Control System requires the contractor to plan and schedule the work.



Contractor must be prepared in order to begin each new Definable Feature of Work. (DFOW).

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QC Deficiencies

The three phases of control are the core of the Construction Quality Management System and are included in your project's Quality Control Plan. When the actions are performed as outlined, success in completing the work to comply with requirements of the contract is enhanced.



The QC Staff should try to prevent deficiencies instead of detect them.



Address deficiencies as soon as they are discovered.





Three Phases of Control

The Three Phases of control are the Preparatory Phase, the Initial Phase, and the Follow-Up Phase.

The Contractor develops, schedules, and implements procedures for tracking control phase meetings for the Definable Features of Work.

For instance, the QC Manager or QC Staff will:


- Notify appropriate personnel of the time, date, and agenda for control phase meetings.
- Conduct Meetings for the Preparatory Phase and Initial Phases
- Safety considerations and Activity Hazard Analyses will be discussed. Discussions will be documented and provided to attendees after the meetings.
- Monitor work in place throughout the follow-up phase.
- Conduct additional control phase meetings, as needed.

Now, let's take a look at each phase individually to get a better understanding of them.

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QC MANAGER REQUIREMENTS

- 1 Notify appropriate personnel of the time, date, and agenda for control phase meetings.
- 2 Conduct Meetings for the Preparatory Phase and Initial Phases
- 3 Safety considerations and Activity Hazard Analyses will be discussed.
- 4 Discussions will be documented and provided to attendees after the meetings
- 5 Monitor work in place throughout the follow-up phase.
- 6 Conduct additional control phase meetings, as needed.



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MODULE 2: PREPARATORY PHASE

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Contractor develops, schedules, and implements procedures for tracking control phase meetings for the Definable Features of Work.



Three Phases of Control

The Preparatory Phase is performed before work begins for each definable feature of work. With this phase, the QC Manager is responsible for the following Preparatory Phase Actions:

- Reviewing each paragraph of applicable specifications and references
- Reviewing the contract plans
- Ensuring all materials and equipment have been tested, submitted, and approved.
- Ensuring provisions have been made to provide required control inspection and testing, and
- Examine the work area to assure all required preliminary work has been completed.

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Preparatory
Phase performed
before work
starts for each
definable feature
of work.



Preparatory Phase



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The QC Manager also has responsibilities to:


- Examine the work area to assure all required preliminary work has been completed.
- Physically examine required materials, equipment, and sample work to assure that they are on hand and that they conform to approved shop drawings or submitted data.
- Review the appropriate activity hazard analysis.
- Discuss procedures for constructing the work including the review of repetitive deficiencies.
- Check safety to include compliance with the safety plan and activity hazard analysis.

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Preparatory Phase Meeting

The Government must be notified in advance of beginning any of the required actions of the preparatory phase as required in the QC specifications.

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Preparatory Phase Meeting

The Preparatory Phase Meeting is conducted by the QC Manager. Attendees include the Superintendent, Site Safety Officer, QC personnel, and the foreman responsible for the definable feature of work. Government must be sent an invitation to attend. They may accept or decline. Specs will indicate how many hours in advance the Government needs to be notified.

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MODULE 3: INITIAL PHASE

The Initial phase must be accomplished at the beginning of a definable feature of work.

The Initial Phase verifies the controls for work that was developed during the Preparatory Meeting have been implemented and the work was performed to the level of workmanship mutually agreed upon at that meeting.



Initial Phase



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The Initial Phase: The Initial phase must be accomplished at the beginning of a definable feature of work. The Initial Phase verifies control for the work that was developed during the Preparatory Meeting has been implemented and the work is performed to the level of workmanship mutually agreed upon at that meeting.

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MODULE 3: INITIAL PHASE

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Initial Phase

Three Phases of Control

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Three Phases of Control

The Initial Phase Meeting Will Include:

- Reviewing the minutes of the Preparatory Meeting
- Checking Preliminary Work
- Verifying adequacy of controls to ensure full contract compliance.
- Establishing the level of workmanship
- Resolving all differences
- Check safety to include compliance with the safety plan and activity hazard analysis, and
- A review the activity hazard analysis with workers

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Initial Phase Meeting




As with the Preparatory Phase, the Government must be notified in advance of beginning any of the required actions of the Initial Phase as required in the QC specifications.

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Initial Phase Meeting

The QC Manager oversees and prepares the minutes for the Initial Phase Meeting. The minutes will be included in the daily CQC Report. It's also important to repeat the initial phase for each new crew working onsite, or any time established level of workmanship is not being met.



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MODULE 4: FOLLOW-UP PHASE

Follow Up Phase requires the QC Manager to perform daily checks to assure continuing compliance with the contract, including safety and control testing.

Conduct final follow-up checks and ensure all deficiencies are corrected prior to the start of additional features of work. QC personnel should continually refer to the standards set in the Preparatory and Initial Phases.



Follow-Up Phase

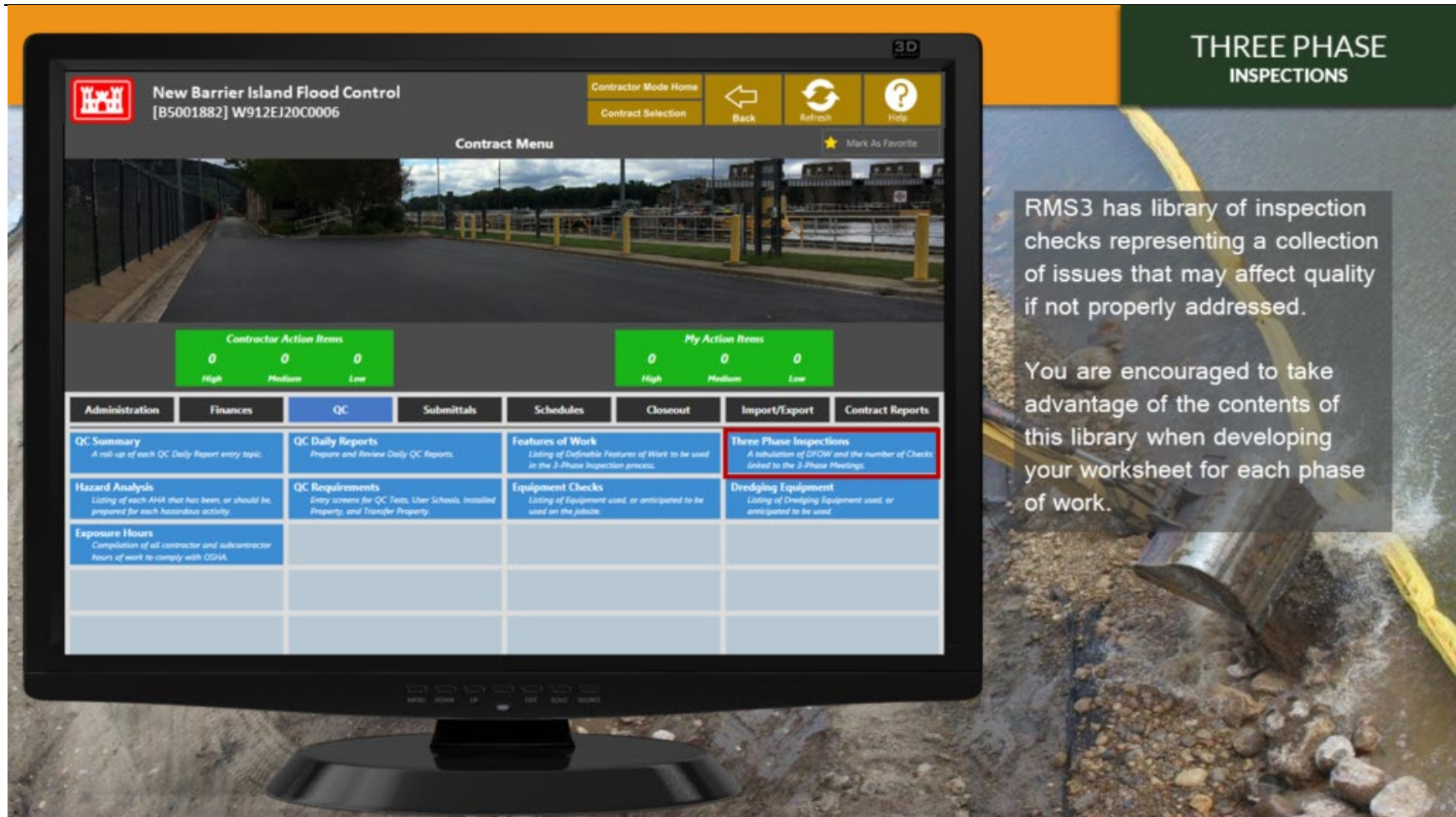


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Follow-up Phase. During the follow-up Phase, the QC Manager must perform daily checks to assure continuing compliance with contract requirements, including safety and control testing, until completion of the feature of work. Document the checks as a matter of record in the CQC documentation.

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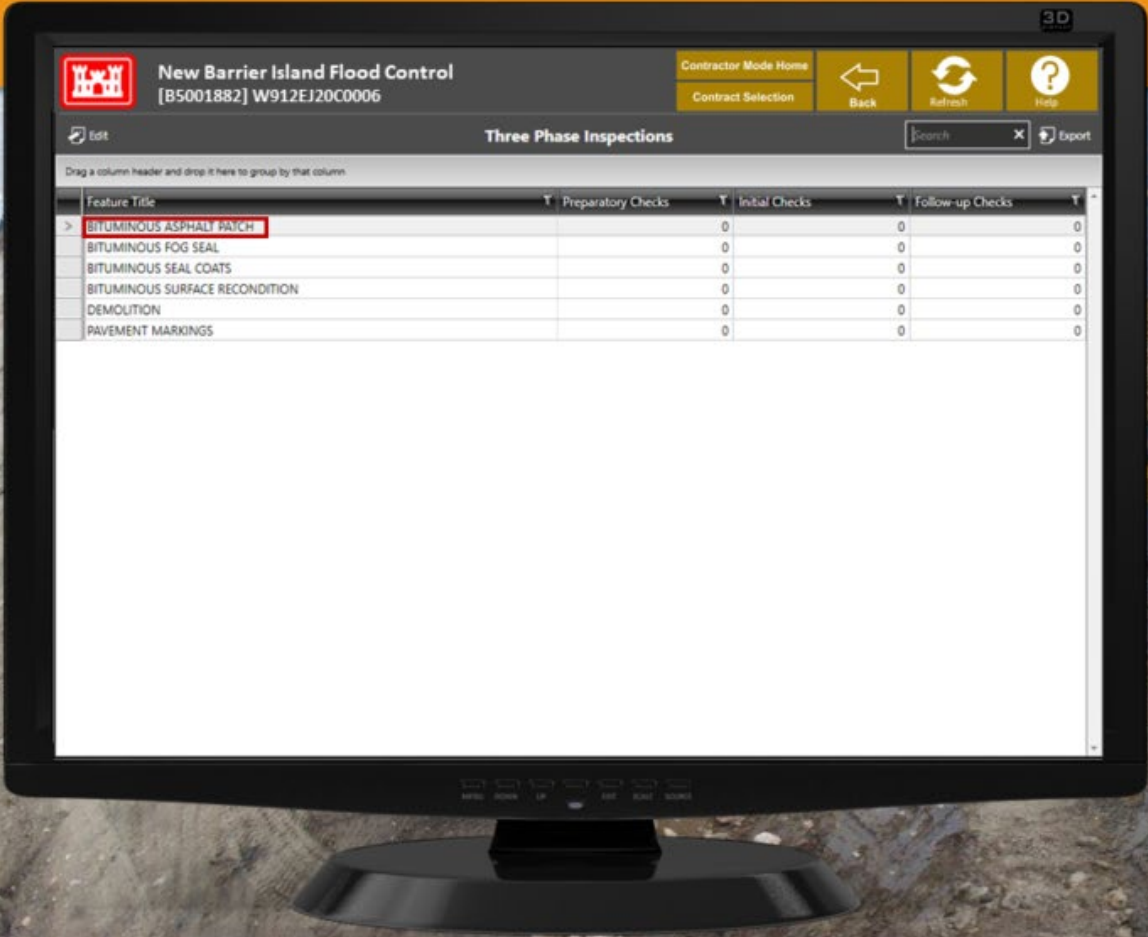
THREE PHASE INSPECTIONS

RMS3 has library of inspection checks representing a collection of issues that may affect quality if not properly addressed.

You are encouraged to take advantage of the contents of this library when developing your worksheet for each phase of work.

Administration	Finances	QC	Submittals	Schedules	Closeout	Import/Export	Contract Reports
QC Summary <i>A roll-up of each QC Daily Report entry topic.</i>	QC Daily Reports <i>Prepare and Review Daily QC Reports.</i>	Features of Work <i>Listing of Definable Features of Work to be used in the 3-Phase Inspection process.</i>	Three Phase Inspections <i>A tabulation of DFW and the number of Checks linked to the 3-Phase Meetings.</i>				
Hazard Analysis <i>Listing of each ANA that has been, or should be, prepared for each hazardous activity.</i>	QC Requirements <i>Entry screens for QC Tests, User Schools, Installed Property, and Transfer Property.</i>	Equipment Checks <i>Listing of Equipment used, or anticipated to be used on the jobsite.</i>	Dredging Equipment <i>Listing of Dredging Equipment used, or anticipated to be used.</i>				
Exposure Hours <i>Compilation of all contractor and subcontractor hours of work to comply with OSHA.</i>							

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THREE PHASE INSPECTIONS

New Barrier Island Flood Control
[B5001882] W912EJ20C0006

Contractor Mode Home
Contract Selection

Back Refresh Help

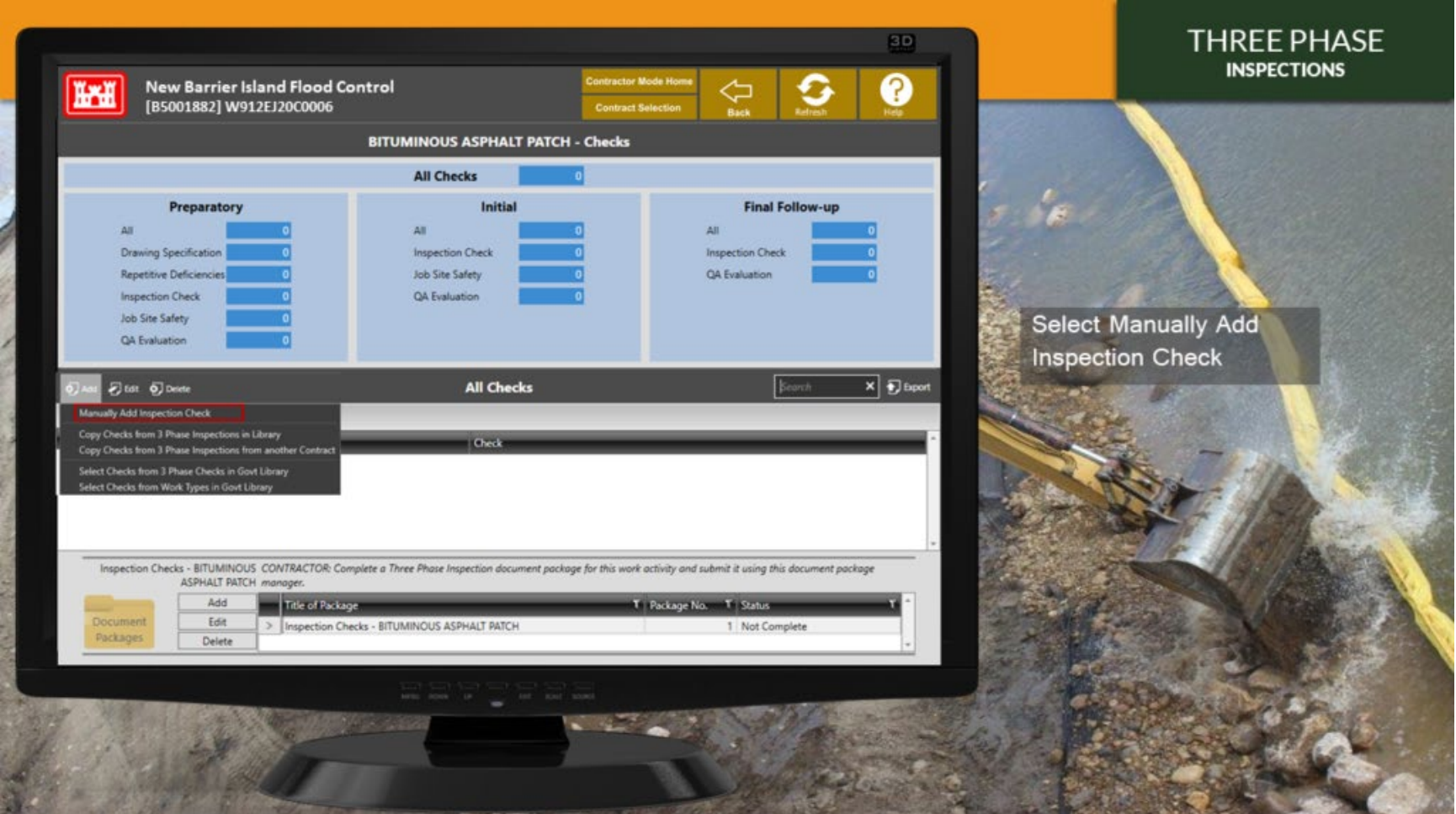
Three Phase Inspections

Feature Title	Preparatory Checks	Initial Checks	Follow-up Checks
> BITUMINOUS ASPHALT PATCH	0	0	0
BITUMINOUS FOG SEAL	0	0	0
BITUMINOUS SEAL COATS	0	0	0
BITUMINOUS SURFACE RECONDITION	0	0	0
DEMOLITION	0	0	0
PAVEMENT MARKINGS	0	0	0

When first opened, a table containing a list of all the contract's Features of Work will be displayed.

To view or add checks to a feature, select the feature by double-clicking on the Feature Title.

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THREE PHASE INSPECTIONS

New Barrier Island Flood Control
[B5001882] W912EJ20C0006

Contractor Mode Home
Contract Selection

Back Refresh Help

BITUMINOUS ASPHALT PATCH - Checks

All Checks 0

Preparatory	Initial	Final Follow-up
All 0	All 0	All 0
Drawing Specification 0	Inspection Check 0	Inspection Check 0
Repetitive Deficiencies 0	Job Site Safety 0	QA Evaluation 0
Inspection Check 0	QA Evaluation 0	
Job Site Safety 0		
QA Evaluation 0		

Manually Add Inspection Check

- Copy Checks from 3 Phase Inspections in Library
- Copy Checks from 3 Phase Inspections from another Contract
- Select Checks from 3 Phase Checks in Govt Library
- Select Checks from Work Types in Govt Library

Inspection Checks - BITUMINOUS CONTRACTOR: Complete a Three Phase Inspection document package for this work activity and submit it using this document package ASPHALT PATCH manager.

Add	Title of Package	Package No.	Status
Edit	Inspection Checks - BITUMINOUS ASPHALT PATCH	1	Not Complete
Delete			

Select Manually Add Inspection Check



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THREE PHASE INSPECTIONS

Select from the Check Type dropdown that identifies the type of inspection check you are adding

Contract Menu

All Checks: 0

Preparatory | Initial | Final Follow-up

Add 3 Phase Check

The following information is required to add a new 3 Phase Check

Check Type: Preparatory - Job Site Safety

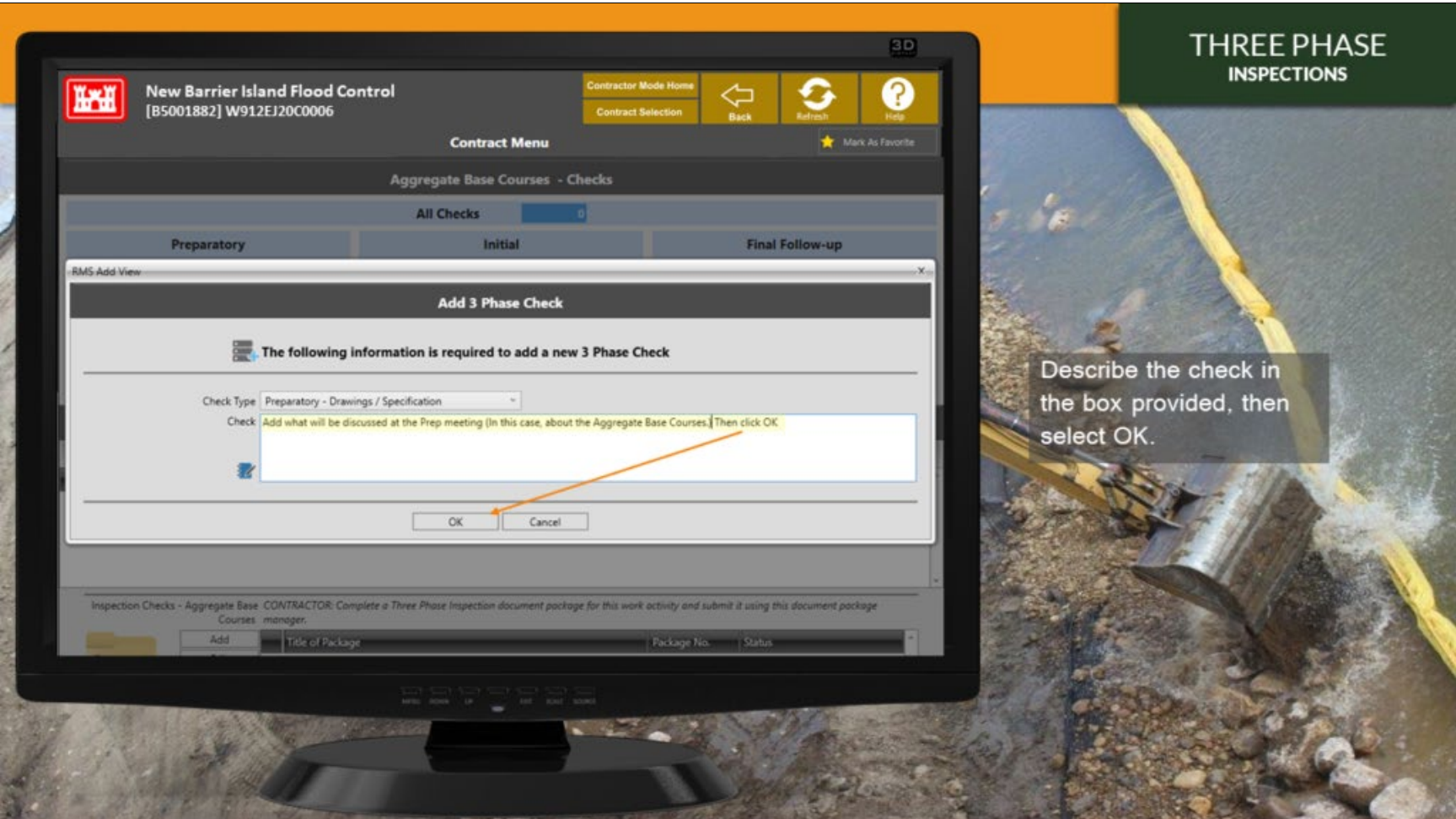
Check: Preparatory - Drawings / Specification
Preparatory - Repetitive Deficiencies
Preparatory - Inspection Check
Preparatory - Job Site Safety
Preparatory - QA Evaluation
Initial - Inspection Check
Initial - Job Site Safety
Initial - QA Evaluation
Final - Inspection Check
Final - QA Evaluation

Cancel

Inspection Checks - BITUMINOUS ASPHALT PATCH manager

Add	Title of Package	Package No.	Status
Edit	Inspection Checks - BITUMINOUS ASPHALT PATCH	1	Not Complete
Delete			

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THREE PHASE INSPECTIONS

New Barrier Island Flood Control
[B5001882] W912EJ20C0006

Contractor Mode Home
Contract Selection

Back Refresh Help

Mark As Favorite

Aggregate Base Courses - Checks

All Checks

Preparatory Initial Final Follow-up

RMS Add View

Add 3 Phase Check

The following information is required to add a new 3 Phase Check

Check Type: Preparatory - Drawings / Specification

Check: Add what will be discussed at the Prep meeting (In this case, about the Aggregate Base Courses.) Then click OK.

OK Cancel

Inspection Checks - Aggregate Base Courses
CONTRACTOR: Complete a Three Phase Inspection document package for this work activity and submit it using this document package manager.

Add	Title of Package	Package No.	Status
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Click "OK" Once you've finished adding the appropriate items to the QA/QC Tab.