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# 02/10

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# ATTACHMENTS:

Sample forms

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# SECTION 01 45 00

# QUALITY CONTROL 02/10

#### PART 1 GENERAL

#### 1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

# ASTM INTERNATIONAL (ASTM)

ASTM D3740 (2012a) Minimum Requirements for Agencies

Engaged in the Testing and/or Inspection of Soil and Rock as Used in Engineering

Design and Construction

ASTM E329 (2014a) Standard Specification for

Agencies Engaged in the Testing and/or

Inspection of Materials Used in

Construction

INTERNATIONAL CODE COUNCIL (ICC)

ICC IBC (2012) International Building Code

## 1.2 PAYMENT

Separate payment will not be made for providing and maintaining an effective Quality Control program. Include all associated costs in the applicable Cost Schedule branch or sub-branch costs.

#### 1.3 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. Submit the following in accordance with Section 01 33 23 Shop Drawings, Product Data, and Samples:

SD-01 Preconstruction Submittals

Contractor Quality Control (CQC) Plan; G

PART 2 PRODUCTS

Not Used

#### PART 3 EXECUTION

# 3.1 GENERAL REQUIREMENTS

Establish and maintain an effective quality control (QC) system in compliance with the Contract Clause titled "Inspection of Construction." QC consist of plans, procedures, and organization necessary to produce an end product which complies with the contract requirements. Cover all construction design and construction operations, both onsite and offsite,

and be keyed to the proposed construction design and construction sequence. The project superintendent will be held responsible for the quality of work and is subject to removal by the Contracting Officer for non-compliance with the quality requirements specified in the contract. In this context the highest level manager responsible for the overall construction activities at the site, including quality and production is the project superintendent. The project superintendent must maintain a physical presence at the site at all times and is responsible for all construction and related activities at the site, except as otherwise acceptable to the Contracting Officer.

## 3.2 QUALITY CONTROL PLAN

Submit no later than 15 days after receipt of notice to proceed, the Contractor Quality Control (CQC) Plan proposed to implement the requirements of the Contract Clause titled "Inspection of Construction." The Government will consider an interim plan for the first 45 days of operation. Construction will be permitted to begin only after acceptance of the CQC Plan or acceptance of an interim plan applicable to the particular feature of work to be started. Work outside of the accepted interim plan will not be permitted to begin until acceptance of a CQC Plan or another interim plan containing the additional work.

#### 3.2.1 Content of the CQC Plan

Include, as a minimum, the following to cover all construction operations, both onsite and offsite, including work by subcontractors, fabricators, suppliers, and purchasing agents:

- a. A description of the quality control organization, including a chart showing lines of authority and acknowledgment that the CQC staff will implement the three phase control system for all aspects of the work specified. Include a CQC System Manager who reports to the project manager.
- b. The name, qualifications (in resume format), duties, responsibilities, and authorities of each person assigned a CQC function.
- c. A copy of the letter to the CQC System Manager signed by an authorized official of the firm which describes the responsibilities and delegates sufficient authorities to adequately perform the functions of the CQC System Manager, including authority to stop work which is not in compliance with the contract. Letters of direction to all other various quality control representatives outlining duties, authorities, and responsibilities will be issued by the CQC System Manager. Copies of these letters must be furnished to the Government.
- d. Procedures for scheduling, reviewing, certifying, and managing submittals, including those of subcontractors, offsite fabricators, suppliers, and purchasing agents. These procedures must be in accordance with Section 01 33 23 Shop Drawings, Product Data, and Samples.
- e. Control, verification, and acceptance testing procedures for each specific test to include the test name, specification paragraph requiring test, feature of work to be tested, test frequency, and person responsible for each test. (Laboratory facilities approved by the Contracting Officer must be used.)
- f. Procedures for tracking preparatory, initial, and follow-up control phases and control, verification, and acceptance tests including

documentation.

- g. Procedures for tracking construction deficiencies from identification through acceptable corrective action. Establish verification procedures that identified deficiencies have been corrected.
- h. Reporting procedures, including proposed reporting formats.
- i. A list of the definable features of work. A definable feature of work is a task which is separate and distinct from other tasks, has separate control requirements, and may be identified by different trades or disciplines, or it may be work by the same trade in a different environment. Although each section of the specifications may generally be considered as a definable feature of work, there are frequently more than one definable feature under a particular section. This list will be agreed upon during the coordination meeting.
- j. Any special inspection requirements as required in accordance with ICC IBC in their entirety except that any special inspections are to be provided by the Contractor not the Government.

# 3.2.2 NOT USED

#### 3.2.3 Acceptance of Plan

Acceptance of the Contractor's QCP is required prior to the start of construction. Acceptance is conditional and will be predicated on satisfactory performance during the construction. The Government reserves the right to require the Contractor to make changes in his CQC Plan and operations including removal of personnel, as necessary, to obtain the quality specified.

## 3.2.4 Notification of Changes

After acceptance of the CQC Plan, notify the Contracting Officer in writing of any proposed change. Proposed changes are subject to acceptance by the Contracting Officer.

# 3.3 COORDINATION MEETING

After the Preconstruction Conference, before start of construction, and prior to acceptance by the Government of the CQC Plan, meet with the Contracting Officer or Authorized Representative and discuss the Contractor's quality control system. Submit the CQC Plan a minimum of 15 calendar days prior to the Coordination Meeting. During the meeting, a mutual understanding of the system details must be developed, including the forms for recording the CQC operations, control activities, testing, administration of the system for both onsite and offsite work, and the interrelationship of Contractor's Management and control with the Government's Quality Assurance. Minutes of the meeting will be prepared by the Government, signed by both the Contractor and the Contracting Officer and will become a part of the contract file. There may be occasions when subsequent conferences will be called by either party to reconfirm mutual understandings and/or address deficiencies in the CQC system or procedures which may require corrective action by the Contractor.

# 3.4 OUALITY CONTROL ORGANIZATION

# 3.4.1 Personnel Requirements

sufficient number of additional qualified personnel to ensure safety and contract compliance. The Site Safety and Health Officer must report directly to a senior project (or corporate) official independent from the CQC System Manager. The Site Safety and Health Officer will also serve as a member of the CQC Staff Personnel identified in the technical provisions as requiring specialized skills to assure the required work is being performed properly will also be included as part of the CQC organization. The Contractor's COC staff must maintain a presence at the site at all times during progress of the work and have complete authority and responsibility to take any action necessary to ensure contract compliance. The CQC staff will be subject to acceptance by the Contracting Officer. Provide adequate office space, filing systems and other resources as necessary to maintain an effective and fully functional CQC organization. Promptly complete and furnish all letters, material submittals, shop drawing submittals, schedules and all other project documentation to the CQC organization. The CQC organization shall be responsible to maintain these documents and records at the site at all times, except as otherwise acceptable to the Contracting Officer.

#### 3.4.2 CQC System Manager

Identify as CQC System Manager an individual within the onsite work organization who is responsible for overall management of CQC and have the authority to act in all CQC matters for the Contractor. The CQC System Manager must be a graduate engineer, graduate architect, or a graduate of construction management, with a minimum of 7 years construction experience on projects of similar size and type which include the major trades that are part of this contract. This CQC System Manager must be on the site at all times during construction and be employed by the prime Contractor. The CQC System Manager must be assigned no other duties. Identify in the plan an alternate to serve in the event of the CQC System Manager's absence. The requirements for the alternate are the same as the CQC System Manager.

#### 3.4.3 CQC Personnel

In addition to CQC personnel specified elsewhere in the contract, provide as part of the CQC organization specialized personnel to assist the CQC System Manager for the following areas: electrical, mechanical, civil, structural, environmental, architectural, materials technician, submittals clerk. These individuals may be employees of the prime or subcontractor; be responsible to the CQC System Manager; be physically present at the construction site during work on their areas of responsibility; have the necessary education and/or experience in accordance with the experience matrix listed herein. These individuals must have no other duties other than quality control. With the exception of the CQC Systems Manager, other CQC personnel may cover more than one area provided that they are qualified to perform QC activities in each designated and that workload allows.

	Experience Matrix							
Area	Qualifications							
Civil	Graduate Civil Engineer with 2 years related experience or person 5 years of experience supervising civil features of work in the field with a construction company							
Mechanical	Graduate Mechanical Engineer with 2 years related experience or person 5 years of experience supervising mechanical features of work in the field with a construction company							
Electrical	Graduate Electrical Engineer with 2 years related experience or person 5 years of experience supervising electrical features of work in the field with a construction company							
Structural	Graduate Structural Engineer with 2 years related experience or person 5 years of experience supervising structural features of work in the field with a construction company							
Architectural	Graduate Architect with 2 years related experience or person 5 years of experience supervising architectural features of work in the field with a construction company							
Environmental	Graduate Environmental Engineer with 2 years related experience or person 5 years of experience supervising environmental features of work in the field with a construction company							
Submittals	Submittal Clerk with 2 year experience							
Concrete, Pavements and Soils	Materials Technician with 2 years of experience for the appropriate feature of work							
Testing, Adjusting and Balancing (TAB) Personnel	Specialist must be a member of AABC or an experienced technician of the firm certified by the NEBB							

# 3.4.4 Additional Requirement

NOT USED

# 3.4.5 Organizational Changes

Maintain the CQC staff at full strength at all times. When it is necessary to make changes to the CQC staff, revise the CQC Plan to reflect the changes and submit the changes to the Contracting Officer for acceptance.

# 3.5 SUBMITTALS AND DELIVERABLES

Submittals, if needed, must comply with the requirements in Section 01 33 23 Shop Drawings, Product Data, and Samples. The CQC organization is responsible for certifying that all submittals and deliverables are in compliance with the contract requirements. When Section 01 91 00 General Commissioning Requirements and Section 23 08 00 Commissioning of HVAC are included in the contract, the submittals required by those sections must be coordinated with Section 01 33 23 Shop Drawings, Product Data, and Samples to ensure adequate time is allowed for each type of

submittal required.

#### 3.6 CONTROL

Contractor Quality Control is the means by which the Contractor ensures that the construction, to include that of subcontractors and suppliers, complies with the requirements of the contract. At least three phases of control must be conducted by the CQC System Manager for each definable feature of the construction work as follows:

#### 3.6.1 Preparatory Phase

This phase is performed prior to beginning work on each definable feature of work, after all required plans/documents/materials are approved/accepted, and after copies are at the work site. This phase includes:

- a. A review of each paragraph of applicable specifications, reference codes, and standards. Make available during the preparatory inspection a copy of those sections of referenced codes and standards applicable to that portion of the work to be accomplished in the field. Maintain and make available in the field for use by Government personnel until final acceptance of the work.
- b. Review of the contract drawings.
- c. Check to assure that all materials and/or equipment have been tested, submitted, and approved.
- d. Review of provisions that have been made to provide required control inspection and testing.
- e. Examination of the work area to assure that all required preliminary work has been completed and is in compliance with the contract.
- f. Examination of required materials, equipment, and sample work to assure that they are on hand, conform to approved shop drawings or submitted data, and are properly stored.
- g. Review of the appropriate activity hazard analysis to assure safety requirements are met.
- h. Discussion of procedures for controlling quality of the work including repetitive deficiencies. Document construction tolerances and workmanship standards for that feature of work.
- i. Check to ensure that the portion of the plan for the work to be performed has been accepted by the Contracting Officer.
- j. Discussion of the initial control phase.
- k. The Government must be notified at least 48 hours in advance of beginning the preparatory control phase. Include a meeting conducted by the CQC System Manager and attended by the superintendent, other CQC personnel (as applicable), and the foreman responsible for the definable feature as well as those actually performing the work. Document the results of the preparatory phase actions by separate minutes prepared by the CQC System Manager and attach to the daily CQC report. Instruct applicable workers as to the acceptable level of workmanship required in order to meet contract specifications.

This phase is accomplished at the beginning of a definable feature of work. Accomplish the following:

- a. Check work to ensure that it is in full compliance with contract requirements. Review minutes of the preparatory meeting.
- b. Verify adequacy of controls to ensure full contract compliance. Verify required control inspection and testing.
- c. Establish level of workmanship and verify that it meets minimum acceptable workmanship standards. Compare with required sample panels as appropriate.
- d. Resolve all differences.
- e. Check safety to include compliance with and upgrading of the safety plan and activity hazard analysis. Review the activity analysis with each worker.
- f. The Government must be notified at least 48 hours in advance of beginning the initial phase. Prepare separate minutes of this phase by the CQC System Manager and attach to the daily CQC report. Indicate the exact location of initial phase for future reference and comparison with follow-up phases.
- g. The initial phase should be repeated for each new crew to work onsite, or any time acceptable specified quality standards are not being met.

#### 3.6.3 Follow-up Phase

Perform daily checks to assure control activities, including control testing, are providing continued compliance with contract requirements, until completion of the particular feature of work. Record the checks in the CQC documentation. Conduct final follow-up checks and correct all deficiencies prior to the start of additional features of work which may be affected by the deficient work. Do not build upon or conceal non-conforming work.

#### 3.6.4 Additional Preparatory and Initial Phases

Conduct additional preparatory and initial phases on the same definable features of work if: the quality of on-going work is unacceptable; if there are changes in the applicable CQC staff, onsite production supervision or work crew; if work on a definable feature is resumed after a substantial period of inactivity; or if other problems develop.

#### 3.7 TESTS

# 3.7.1 Testing Procedure

Perform specified or required tests to verify that control measures are adequate to provide a product which conforms to contract requirements. Upon request, furnish to the Government duplicate samples of test specimens for possible testing by the Government. Testing includes operation and/or acceptance tests when specified. Procure the services of an approved testing laboratory or establish an approved testing laboratory at the project site. Perform the following activities and record and provide the following data:

a. Verify that testing procedures comply with contract requirements.

- b. Verify that facilities and testing equipment are available and comply with testing standards.
- c. Check test instrument calibration data against certified standards.
- d. Verify that recording forms and test identification control number system, including all of the test documentation requirements, have been prepared.
- e. Record results of all tests taken, both passing and failing on the CQC report for the date taken. Specification paragraph reference, location where tests were taken, and the sequential control number identifying the test. If approved by the Contracting Officer, actual test reports may be submitted later with a reference to the test number and date taken. Provide an information copy of tests performed by an offsite or commercial test facility directly to the Contracting Officer. Failure to submit timely test reports as stated may result in nonpayment for related work performed and disapproval of the test facility for this contract.

# 3.7.2 Testing Laboratories

Testing laboratories are to be provided by the Contractor and approved as specified in Section 01 45 29 Testing Laboratory Services, Paragraph 1.3A.

#### 3.7.2.1 Capability Check

The Government reserves the right to check laboratory equipment in the proposed laboratory for compliance with the standards set forth in the contract specifications and to check the laboratory technician's testing procedures and techniques. Laboratories utilized for testing soils, concrete, asphalt, and steel must meet criteria detailed in ASTM D3740 and ASTM E329.

# 3.7.2.2 Capability Recheck

NOT USED

# 3.7.3 Onsite Laboratory

The Government reserves the right to utilize the Contractor's control testing laboratory and equipment to make assurance tests, and to check the Contractor's testing procedures, techniques, and test results at no additional cost to the Government.

# 3.8 COMPLETION INSPECTION

# 3.8.1 Punch-Out Inspection

Conduct an inspection of the work by the CQC Manager near the end of the work, or any increment of the work established by a time stated in the FAR 52.211-10 SPECIAL CONTRACT REQUIREMENTS Clause, "Commencement, Prosecution, and Completion of Work", or by the specifications. Prepare and include in the CQC documentation a punch list of items which do not conform to the approved drawings and specifications, as required by paragraph DOCUMENTATION. Include within the list of deficiencies the estimated date by which the deficiencies will be corrected. Make a second inspection the CQC System Manager or staff to ascertain that all deficiencies have been corrected. Once this is accomplished, notify the SECTION 01 45 00 Page 9

Government that the facility is ready for the Government Pre-Final inspection.

# 3.8.2 Pre-Final Inspection

The Government will perform the pre-final inspection to verify that the facility is complete and ready to be occupied. A Government Pre-Final Punch List may be developed as a result of this inspection. Ensure that all items on this list have been corrected before notifying the Government and scheduling the Final Acceptance Inspection. Correct any items noted on the Pre-Final inspection in a timely manner. These inspections and any deficiency corrections required by this paragraph must be accomplished within the time slated for completion of the entire work or any particular increment of the work if the project is divided into increments by separate completion dates.

# 3.8.3 Final Acceptance Inspection

The Contractor's Quality Control Inspection personnel, plus the superintendent or other primary management person, and the Contracting Officer's Representative must be in attendance at the final acceptance inspection. Additional Government personnel including, but not limited to, those from the Facility Management Service, the Architect-Engineer firm, and affected services may also be in attendance. The final acceptance inspection will be formally scheduled by the Contracting Officer based upon results of the Pre-Final inspection. Notify the Contracting Officer in writing at least 15 days prior to the final acceptance inspection and include the Contractor's assurance that all specific items previously identified to the Contractor as being unacceptable, along with all remaining work performed under the contract, will be complete and acceptable by the date scheduled for the final acceptance inspection.

#### 3.9 DOCUMENTATION

Maintain current records providing factual evidence that required quality control activities and/or tests have been performed. Include in these records the work of subcontractors and suppliers on an acceptable form that includes, as a minimum, the following information:

- a. Contractor/subcontractor and their area of responsibility.
- b. Operating plant/equipment with hours worked, idle, or down for repair.
- c. Work performed each day, giving location, description, and by whom. When Network Analysis (NAS) is used, identify each phase of work performed each day by NAS activity number.
- d. Test and/or control activities performed with results and references to specifications/drawings requirements. Identify the control phase (Preparatory, Initial, Follow-up). List of deficiencies noted, along with corrective action.
- e. Quantity of materials received at the site with statement as to acceptability, storage, and reference to specifications/drawings requirements.
- f. Submittals and deliverables reviewed, with contract reference, by whom, and action taken.
- g. Offsite surveillance activities, including actions taken.

- h. Job safety evaluations stating what was checked, results, and instructions or corrective actions.
- Instructions given/received and conflicts in plans and/or specifications.
- i. NOT USED
- k. Contractor's verification statement.

Indicate a description of trades working on the project; the number of personnel working; weather conditions encountered; and any delays encountered. Cover both conforming and deficient features and include a statement that equipment and materials incorporated in the work and workmanship comply with the contract. Furnish the original and one copy of these records in report form to the Government daily within 24 hours after the date covered by the report, except that reports need not be submitted for days on which no work is performed. As a minimum, prepare and submit one report for every 7 days of no work and on the last day of a no work period. All calendar days must be accounted for throughout the life of the contract. The first report following a day of no work will be for that day only. Reports must be signed and dated by the CQC System Manager. Include copies of test reports and copies of reports prepared by all subordinate quality control personnel within the CQC System Manager Report.

#### 3.10 SAMPLE FORMS

Sample forms enclosed at the end of this section.

Contractor Production Report Contractor Quality Control Report Deficiency List Preparatory Phase Checklist Initial Phase Checklist Testing Plan and Log

## 3.11 NOTIFICATION OF NONCOMPLIANCE

The Contracting Officer will notify the Contractor of any detected noncompliance with the foregoing requirements. Take immediate corrective action after receipt of such notice. Such notice, when delivered to the Contractor at the work site, will be deemed sufficient for the purpose of notification. If the Contractor fails or refuses to comply promptly, the Contracting Officer may issue an order stopping all or part of the work until satisfactory corrective action has been taken. No part of the time lost due to such stop orders will be made the subject of claim for extension of time or for excess costs or damages by the Contractor.

-- End of Section --

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WAS HAZABOOUS MATERIAL WASTE RELEASED INTO THE ENVIRONMENT?   YES altach description of incident and proposed action,   YES altach description of incident and proposed action,   Safety Requirements have BEEN MET.   Schedule					? NES	□ NO	REPORT		
Activity No.  Schedule Activity No.  CONSTRUCTION AND PLANT EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.  Schedule Activity No.  CONSTRUCTION AND PLANT EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.  Schedule Activity No.  CONSTRUCTION AND PLANT EQUIPMENT ON JOB SITE TODAY. INDICATE HOURS USED AND SCHEDULE ACTIVITY NUMBER.  Schedule Activity No.  REMARKS  REMARKS	WAS HAZARDOU	S MATERIAL/W	ASTE RELEASED INTO THE E		YES	□ NO	TOTAL WORK HOURS FRO START OF CONSTRUCTION	M	
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Activity No. Submitted # Description of Equipment/Material Received    Construction and plant equipment on Job site today. Indicate Hours used and Model)   Hours Used Activity No.   Owner   Description of Construction Equipment Used Today (incl Make and Model)   Hours Used   Ho	EQUIPMENT/MAT	ERIAL RECEIVE	D TODAY TO BE INCORPORA	ATED IN JOB (INDICATE SCHED	ULE ACTIVITY NUMBER	)			
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PHASE	CONTR	RACT NO	Enter Cnt# Here	CONTRACT TITI	E Enter Title	and Location of Cons			Here	·
			DRY PHASE WORK PREFORMED TODAY?			YES NO				
K			AND ATTACH SUPPLEMENTAL PREPARATO	ORY PHASE CHECKLIS	ST.	120 🔲 110				
PREPARATORY	Sc	hedule	Definable Feature of Work							Index #
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			WITH SAFETY REQUIREMENTS?	INITIAL FITAGL!					_	
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	Acti	vity No.	Section, Location and List of Personnel Prese	nt						
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FOLLOW-UP										
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REWORK	ITEMS I	IDENTIFIED	TODAY (NOT CORRECTED BY CLOSE OF	BUSINESS)	REWORK ITEMS	CORRECTED TODAY (FRO	OM REWO	RK ITEMS L	IST)	
Sched Activity	ule	Description		,	Schedule Activity No.	Description			- /	
		Explain Any I	Follow-Up Phase Checklist Item From Above	That Was Answered "No	O"), Manuf. Rep On	Site, etc.				
Sched Activity		Description	1							
					AUTHORIZED QC	MANAGER AT SITE				DATE
			GOVERNMENT QUALITY ASS			DATE				
QUALITY . Sched		İ	RESENTATIVE'S REMARKS AND/OR EXCEP	TIONS TO THE REPOR	RT					
Activity		Description	1							
		<u> </u>								
				•	GOVERNMENT QU	JALITY ASSURANCE MAN	AGER			DATE

# **DEFICIENCY LIST**

Contract No. and Title: Enter Contract # and Title Here

Contractor: Enter Contractor's Company Name Here

NUMBER	DATE IDENTIFIED	DESCRIPTION	CONTRACT REQUIREMENT (Spec. Section and Par. No., Drawing No. and Detail No., etc.)	ACTION TAKEN BY QC MANAGER	RESOLUTION	DATE COMPLETED

	PREP	<b>ARATORY PHASE CHEC</b>	CKLIST	SPEC SECTION		DATE
		(CONTINUED ON SECOND PAGE)		-	ection # Here	Enter Date (DD/MMM/YY)
CONTRACT NO		DEFINABLE FEATURE OF WORK		SCHEDULE ACT		INDEX#
	Ont# Here GOVERNMENT R	Enter DFOW F			Act ID Here	Enter Index# Here
	NOTIFIED	HOURS IN ADVANCE:		YES	NO 🗌	
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PERSONNEL PRESENT						
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	REVIEW SUBMIT	TALS AND/OR SUBMITTAL REGISTER. HAVE AL	L SUBMITTALS BEEN APPROVED?			YES NO
	IF NO, WHAT ITE	MS HAVE NOT BEEN SUBMITTED?				
40						
SUBMITTALS	ARE ALL MATERI	IALS ON HAND?	YES NO			
Ĺ	IF NO, WHAT ITE	MS ARE				
Ψ	WIIOOIIVO :					
UB						
	CHECK APPROVE	ED SUBMITTALS AGAINST DELIVERED MATERIA	I (THIS SHOULD BE DONE AS MA	ATERIAL ARRIVES	)	
	COMMENTS:	ED GODINITTALS AGAINST DELIVERED WATERIA	AL. (THIS SHOOLD BE DONE AS WE	TENIAL ANNIVES	.)	
	COMMENTS:					
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7 11	IF NO, WHAT ACT	TION IS TAKEN?				
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MATERIAL STORAGE						
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PRELIMINARY WORK & PERMITS						
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	IDENTIFY TEST TO BE PERFORMED, FREQUENCY, AND BY WHOM.		
	WHEN REQUIRED?		
(D	WHERE REQUIRED?		
TESTING			
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	REVIEW TESTING PLAN.		
	HAS TEST FACILITIES BEEN APPROVED?		
	ACTIVITY HAZARD ANALYSIS APPROVED?	YES NO	
	REVIEW APPLICABLE PORTION OF EM 385-1-1.		
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SAFETY			
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	NAVY/ROICC COMMENTS DURING MEETING.		
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	OTHER ITEMS OR REMARKS:		
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OTHER ITEMS OR REMARKS			
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		QC MANAGER	DATE

	INI	TIAL PHASE CHECKI	LIST	SPEC SECTION Enter Spec S	Section # Here	Enter Date (DD/MMM/YY)
CONTRACT NO	o Cnt# Here	DEFINABLE FEATURE OF WORK  Enter DFOW F	Hara	SCHEDULE ACT	NO. d Act ID Here	INDEX # Enter Index# Here
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PROCEDURE COMPLIANCE	IDENTIFIY FULL COMMENTS:	COMPLIANCE WITH PROCEDURES IDENTIFIED	AT PREPARATORY. COORDINATI	E PLANS, SPECIFIO	CATIONS, AND SUE	BMITTALS.
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≿	ENSURE PRELIM	MINARY WORK IS COMPLETE AND CORRECT. IF	NOT, WHAT ACTION IS TAKEN?			
PRELIMINARY WORK						
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z	RESOLVE ANY D	DIFFERENCES.				
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CHECK SAFETY	COMMENTS:	MOTTONO GOING EW 303-1-1 AND 30B HAZARD	ANALIOIO			
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# **TESTING PLAN AND LOG**

CONTRACT NUMBER	ONTRACT NUMBER PROJECT TITLE AND LOCATION						CONTRACTOR				
Enter Contract # Here			Enter Contract Title and Location Here				Enter Contractor's Company Name Here				
SPECIFICATION SECTION AND	ITEM		APPR	EDITED/ ROVED AB			OF 1	LOCATION OF TEST		DATE FORWARDED	
PARAGRAPH NUMBER	OF WORK	TEST REQUIRED	YES	NO	SAMPLED BY	TESTED BY	ON SITE	OFF SITE	DATE COMPLETED	TO CONTR. OFF.	REMARKS
						1 2 3 2 2 3	-				