

# **Contractor Quality Control (CQC) Plan**

Construction of Head Office Building at Korangi Creek Industrial

Parks Karachi

# **Project Name**

MAL PAKISTAN LIMITED APPROVAL DATE

# PARADIGM ENGINEERING CONTRACTOR

# **Project Manager**

Submitted By

paradigmengineering@outlook.com Email Address

03333616721

Phone



# **Contractor Quality Control Plan Acknowledgement**

Project Name:	·
Project Number:	
The undersigned have read and concur with this	Contractor Quality Control Plan:
Quality Control Manager	 Date
Project Manager	Date
Project Superintendent	 Date
Electrical Foreman	 Date
Mechanical Foreman	 Date
Civil Foreman	 Date
Site Safety Manager	 



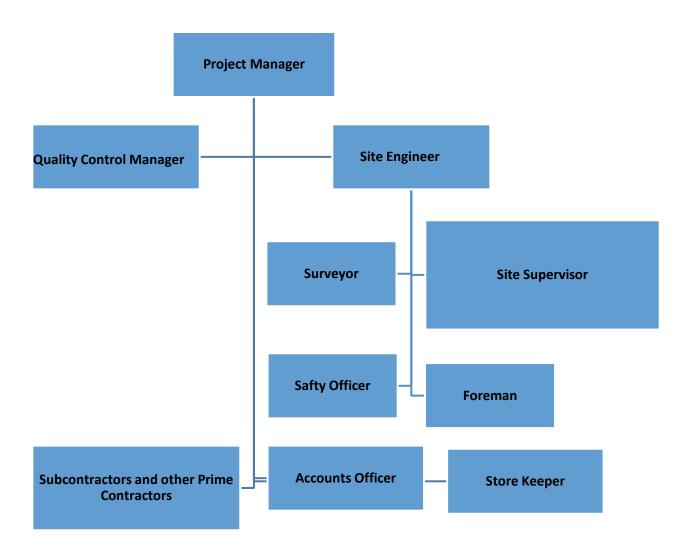
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# **Organizational Chart**

This is a recommended organizational chart. It may be modified provided the responsibilities are covered in the positions presented.





# **Quality Control Manager Responsibility Form**

The Quality Control (QC) Manager, is responsible for overseeing the overall implementation of the Quality Control Plan and coordinates all project testing, inspections and reporting matters directly with the Project Manager. The QC Manager has the authority to intercede directly and stop unsatisfactory work and control further processing, delivery or installation of non-conforming material.

# **Duties:**

- o Preparation, approval and implementation of the CQC Plan
- Verification of materials as per project plans and specifications
- o Development of means and methods to store and protect materials
- o Maintain documentation of inspection status of materials
- Maintain documentation for material and administrative approvals
- Ensure that all materials and construction are in accordance with the requirements for the completeness, accuracy and constructability in accordance with applicable building codes
- o Carry out and participate in weekly progress and QC meetings
- Maintain documentation of inspection of work executed by subcontractors



# **Stop Work Authorization Letter**

Project	Name:	
Project	Number:	<u></u>
From:	Company President	
То:	QC Manager	
project Manag Quality Prepara the Cor submit respon the cor Additio	referenced above. As the site Quality er. You review the specifications, adder Control Program. The Quality Control atory Meetings and Initial and Follow-Up intractor Quality Control Report (CQCR) ated no later than three (3) working days sible for reviewing specifications, submittintractural requirements.	consibility as our site Quality Control Manager for the Control Manager, you report directly to the Project andums and plans in their entirety and implement the Col Program encompasses three phases of inspection: Inspections. All inspections and testing are recorded in a submitted to the Project Manager. Test reports are after the test was performed. You and/or your staff are als, as-builts, plans and shop drawings for compliance to cuments. You and/or your staff conduct daily inspections
to ensu	• •	ised in the construction of the project are in compliance
your st <b>Engine</b> workm time, y	taff witness all tests required by the spering. You and your staff must docanship noted and constantly monitor an	comply with the plans and specifications. You and/or decifications and coordinate such tests with Paradigm nument all non-conforming conditions, items and/or dialert Safety personnel to safety violations. If, at any entation of the Quality Control Program, contact the
	Acknowledgements	Company CEO
	Acknowledgements	
	Subcontractor "A"	-
	Subcontractor "B"	_



# **Major Definable Features of Work**

Check all definable features of work and describe how each feature will be accomplished. (You may add or delete items based on the project. All items will be reviewed and approved by **Paradigm Engineering**.)

Construction Activities	Contractor	Primary Contact
☐ Trenching & Excavation  1. Trenching  2. Excavation Work  3. Form Work		
☐ Gravity Sewer		
☐ Force Mains		
☐ Erosion Control		
☐ HVAC		
☐ Plumbing		
☐ Electrical		
☐ Roofing		
☐ Masonry		
☐ Concrete		
□ 1&C		
☐ Landscape		
☐ Bridges		
Construction Site Activities	Contractor	Primary Contact



Fire Alarm	
Fire Suppression	
Hazardous Material Abatement	
Elevators	



# **Three Phases of Inspection**

# **Preparatory Meetings**

Preparatory Meetings are performed prior to the beginning of any major Definable Feature of Work. A meeting is held for each crew performing such feature or when members of the crew change. Preparatory Meetings are conducted by the Quality Control Manager and/or designee after a complete review of all applicable plans, specifications, shop drawings and related submittals. A Preparatory Phase Meeting Checklist (pp 23-25) is completed for each Definable Feature of Work and distributed at the meetings. At the Preparatory Meeting, the Project Manager and Foreman (involved in this phase of construction) coordinate with Quality Assurance, Quality Control and Safety personnel and introduce their plan for accomplishing the work. **Paradigm Engineering** is notified at least 48 hours in advance of the Preparatory Meeting. The following items are discussed at each meeting:

- 1. Review of applicable specifications.
- 2. Review of applicable plans and shop drawings.
- 3. Review of related submittals and a check that all related submittals, shop drawings and materials have been tested (if applicable), submitted and approved.
- 4. Review of the detailed sequence of the execution of the work.
- 5. Discuss required testing and frequency.
- 6. Review provisions to ensure controlled inspection and testing.
- 7. Examination of the work area to ensure that all required preliminary work has been completed and is in compliance with the plans and/or specifications.
- 8. Examination of the related material, review of the Receiving Material Inspection Reports (p <u>29</u>) and verification that the items received are in compliance with the contract and are properly stored.
- 9. Review of the Site Safety Plan to ensure that all safety precautions are met and the required safety equipment has been purchased and is available.
- 10. Review the document and the workmanship expected for the Definable Feature of Work.
- 11. Meeting Minutes are recorded and sent to **Paradigm Engineering** Document Control within 48 hours of the conclusion of the meeting.

# **Initial Inspections**

Initial Inspections are performed at the beginning of any Definable Feature of Work and must be repeated at any time new workmen or new crews are assigned to the work or if the required standard of work is not being met. An Initial Phase Checklist is completed for each Definable Feature of Work and distributed at the initial inspection. **Paradigm Engineering** is notified at least 8 hours in advance of the Initial Inspection. The same personnel who attended the Preparatory Meeting also attend the Initial Inspection. These include the Superintendent and Foreman, Safety Personnel and the Quality Control Staff. The following is accomplished during these meetings:

- 1. Review the minutes of the Preparatory Meeting and verify that the work complies with the design documents (ie, submittals, specifications and/or shop drawings).
- 2. Resolve all differences.
- 3. Verify adequacy of inspection and testing.



- 4. Establish a level of workmanship and verify that it meets the requirements.
- 5. Provide documentation of the previous inspection of the work area.
- 6. Re-examine the work area for compliance.
- 7. Meeting Minutes are recorded and sent to **Paradigm Engineering** Document Control within 48 hours of the conclusion of the meeting.

# **Follow-Up Inspections**

Follow-Up Inspections are performed daily to ensure that the control established during Preparatory Meeting and Initial Inspection continues to provide a product that conforms to the contractural requirements.

- 1. Construction daily activities are inspected by Quality Control in accordance with Quality Control Procedures and the Quality Control Report (CQCR) (pp 18-19) is completed.
- 2. Installation and testing activities which do not comply with the requirements are documented on a Non-Conformance Report (NCR) (p  $\underline{20}$ ).
- Modifications, repairs and/or replacement of materials and/or parts performed subsequent to
  Final Inspection require replacement of materials and/or parts installed. Re-inspection and retesting are required to verify acceptability. Inspection and testing documents are submitted to
  Paradigm Engineering Document Control and are filed and maintained in accordance with
  Quality Control Testing and Verifications (p 11).

Signature	of	acknowledgement	indicate	that	the	Three	Phases	of	the	Quality	Control	Inspection
Program a	re ı	understood and will	be follow	ved.								

QC Manager	Date



# **Quality Control Testing and Verifications**

## **PURPOSE**

To ensure that tests of the Contractor's and Subcontractor's work is adequately planned and that the necessary testing procedures are available to perform the tests in a satisfactory manner. This procedure establishes the methods to be used when performing the tests listed in the specifications. Test reports are submitted to **Paradigm Engineering** Document Control and are filed and logged with other project documentation.

# **TESTING (Onsite, Factory/Offsite)**

A list of tests required to verify that control measures are adequate are delineated in the specifications and/or determined upon the completion of the design. The list includes the test name, specification paragraph, feature of work to be tested, the test frequency and the organization's name that will perform the test. The QC Manager provides written notice to Paradigm Engineering of the proposed test 3 days in advance (5 working days for factory or other offsite tests). The QC Manager witnesses the test with the appropriate organization representatives present and/or with the individual(s) qualified to perform the designated test(s).

## **FAILED TEST**

Failing tests are cleared by one of the following methods:

- 1. Retest Retest if there is any doubt that the first test was not adequate.
- 2. Rework Re-inspect and re-test.
- 3. Failed Material Remove, replace, re-inspect and re-test.

# **PROCEDURES**

- The Quality Control Manager reviews the testing requirements to ensure that the planned test is in accordance with the design documents: ie, plans, specifications, shop drawings and/or other documents.
- 2. Instruments used for testing are calibrated in accordance with established calibration procedures. Specialists experienced in such work perform the calibration.
- 3. Technicians performing tests provide copies of calibration certificates and their field notes and reports to the Quality Control Manager.
- 4. The Quality Control Manager witnesses all required tests detailed in the design documents (plans, specifications, shop drawings, etc).
- 5. **Paradigm Engineering's** witnessing of tests does not relieve the Contractor and Subcontractor of their obligation to comply with the requirements of the Contract Documents.
- 6. **Paradigm Engineering** is notified 3 days in advance of all scheduled tests (5 working days for Factory/offsite tests).
- 7. Test reports, when completed, are attached to the Contractor's Quality Control Report and submitted to **Paradigm Engineering**.



# **Tests and Records**

## **PURPOSE**

This section establishes a system for the control of documentation and records which provide objective evidence of the quality of items and activites performed in accordance with the programmatic requirements. The Quality Control Manager is responsible for the control, review, verifications and maintenance of the documentation delineated in the specifications.

## REPORTING AND DISTRIBUTION OF REPORTS

- 1. After reviewing reports (including Subcontractor reports) the Quality Control Manager submits documentation to **Paradigm Engineering** Document Control.
- All inspections and testing are summarized and recorded in a Contractor's Quality Control Report (CQCR). A copy of the CQCR is sent to MSD Document Control and to the Project Manager. "Original" reports are retained by the Quality Control Manager. Field notes, inspection forms and test reports are filed and available for review by PARADIGM ENGINEERING.
- 3. The Contractor's Quality Control Report includes the following:
  - a. Contractor and Subcontractor areas of responsibility.
  - b. Working, idle and downtime hours for equipment.
  - c. Work accomplished each day, indicating the location, activity and by whom.
  - d. Laboratory test reports, including the test results (passing or failing), location of tests and specification references.
  - e. Deficiencies and corrective actions.
  - f. Material received onsite.
  - g. Safety violations and corrective action implemented.
  - h. Conflicts encountered in the plans and/or specifications.

# RECORDS STORAGE AND RETENTION

- Project records are stored in areas that protect them from damage, deterioration and/or loss at the site Field Office during the construction period. Records are accessible to **Paradigm** Engineering personnel.
- Project records are stored for a period of time as determined by the contractual documents.
  Records, designated for storage, are not to be destroyed or otherwise disposed of within that
  period of time. Control and final disposition of Subcontractor and Supplier records, both onsite
  and offsite, are to be in accordance with the contractural documents.



Testing Agency Schedule					
Project Name: Date: Project Number:					
Agency	Discipline	Estimated Date of Test			



# **Submittals**

## **SUBMITTALS**

All submittals shall be reviewed, certified and managed by the Quality Control Manager. Copies of the manfacturer's data (material, equipment, etc.), including catalogue cut-sheets showing dimensions, performance characteristics, capacities, wiring diagrams, schedules, operation and maintenance manuals and any other relevant information are reviewed by the Quality Control Manager. The Quality Control Manager is an authorized submittal reviewer and testing lab report reviewer. One (1) copy of the submittal remains with the Contractor and one (1) copy is retained by MSD's Document Control.

## **Filing of Submittals**

Submittals (material, design, data, samples, shop drawings, etc) are filed according to the specification section and paragraph number in a secure place for reference and coordination. Color and mock-up samples are maintained in a secure place at the job site for comparisoin with the finished product. A tag or sticker identifying the submittal number and the date of approval is attached to the sample. When a color or mock-up sample is not approved, it is labeled as "Rejected" and removed from the job site (if requested). The record is maintained along with a photograph of the disapproved item with a copy submitted to **Paradigm Engineering** Document Control.

## **SUBMITTAL REGISTER**

The Submittal Register is maintained by the Project Manager. Revised copies of the Submittal Register are provided to **Paradigm Engineering** Document Control on a monthly basis.

#### QUALITY CONTROL MANAGER REVIEW AND APPROVAL

Prior to submittal, all items are checked and approved by the Quality Control Manager. If found to be in strict conformance with the contract requirements, each item is stamped, signed and dated by the Quality Control Manager. Copies of review comments indicating action(s) taken are included within each submittal.



## **QUALITY CONTROL MANAGER GUIDELINES FOR PREPARING AND REVIEWING SUBMITTALS:**

- 1. Be familiar with the submittal procedures.
- 2. Review all of the information attached to the submittal.
- 3. Ensure that all of the pages associated with the enclosures are attached to the submittal.
- 4. Thoroughly review the applicable design documents.
- 5. Ensure the attachments are legible.
- 6. Direct all questions to the Project Manager.
- 7. Submit a detailed written report pertaining to the review of the submittal in a timely manner to the Project Manager.
- 8. Ensure that the sample received and/or material received complies with the submittal.
- 9. Notify the Project Manager if material is installed without a submittal; then request a submittal.
- 10. Maintain and file submittals so they are readily retrievable.

# **STAMPS**

to the following:
Contractor (Firm Name):
Project Name:
Project Number:
I certify that this submittal is accurate, is in strict conformance with all contract requirements, has been thoroughly coordinated and cross-checked against all other applicable disciplines to prevent the omission of vital information, that all conflicts have been resolved, that repetition has been avoided, and that it is it complete and in sufficient detail to allow ready determination of compliance with contract requirements by the Contracting Officer.
Printed Name of the Quality Control Manager:
Signature of the Quality Control Manager:
Date:



# **Tracking Deficiencies**

#### **NON-CONFORMING ITEMS**

- 1. Non-conforming items are those conditions that deviate from the requirements detailed in the specifications, plans and /or shop drawings. The Quality Control Manager is responsible for the control and documentation of non-conforming items.
- 2. The Quality Control Manager prevents non-conforming items from being installed.
- 3. Minor non-conforming items, which are corrected in the same day, are documented in the Contractor's "Weekly Report."
- 4. All other non-conformances are documented on a Non-Conformance Report prepared by the Quality Control Manager, sequentially numbered and dated and include the following information, as appropriate:
  - a. Description of the non-conformance including relevant details of the occurrence.
  - b. Identification of material, component or system by part number, plan, shop drawing and/or specification number and intended installation location.
  - c. Source of material or item (name of supplier, owner or subcontractor).
  - d. Current status or item in shop, warehouse, lay-down yard or structure.
  - e. Individual and organization which detected the non-conformance.
  - f. Recommendation for corrective action including sketches, test data and/or repair procedures necessary to substantiate the recommendation.
  - g. Cause of the non-conformance and steps taken to prevent reoccurrence indicating action(s) taken, positions or titles of persons contacted, letters written and/or procedural changes proposed.
- 5. The Quality Control Manager signs and forwards the Non-Conformance Report to **Paradigm Engineering** Document Control.
- 6. Each Non-Conformance Report is recorded on the Non-Conformance Report Log by the Quality Control Manager.
- 7. Actions to be taken are entered on the Non-Conformance Report Log. The Engineer of Record initiates the disposition(s) necessary to clear the item.
- 8. Verification of "Corrective Action" (eg, completion of repair) by Quality Control after the work in question has been re-inspected and re-tested. Entries are made in the Non-Conformance Report (NCR) log documenting the Final Disposition of each NCR.
- 9. Non-Conformance Reports, logs and documents are filed and maintained. Reports and Records are submitted to **Paradigm Engineering** Document Control.

# **INITIAL PUNCH LIST**

The QC Report reports Punch List items (deficiencies) throughout the life of the project and demonstrates that the QC Staff is correcting the deficiency(ies) in a timely manner. An Initial Punch List is developed as a result of initial inspections and then maintained throughout the life of the project. The Punch List is consistently updated and submitted to the Project Manager for corrective actions. Corrections are accomplished within the time stated. The QC Manager performs Follow-Up Inspections to ensure the deficiencies have been corrected before notifying **Paradigm Engineering** of a Pre-Final Inspection.



#### PRE-FINAL INSPECTION

After the completion of the Initial Punch List Inspection, the Quality Control Manager and **Paradigm Engineering** Representative conduct a Pre-Final Inspection and develop a joint "Punch List" of noted deficiencies. The Punch List is formally documented along with the estimated date by which the deficiencies will be corrected. The Quality Control Manager conducts Follow-Up Inspections to ensure that all deficiencies have been corrected before requesting a Final Inspection by **Paradigm Engineering**.

## **FINAL INSPECTION**

Upon completion of the items listed in the Pre-Final Inspection "Punch List," the QC Manager notifies **Paradigm Engineering** 14 days prior to the Final Inspection (or as agreed to) with the assurance that all items listed in the Pre-Final Inspection and all other remaining work has been completed and will be acceptable by the date of the Final Inspection.



CONTRACTOR'S QUALITY CONTROL REPORT (CQCR)	Report Number: Page <u>1</u> of <u>2</u>			
WEEKLY LOG OF CONSTRUCTION	Date:			
Project Name:	Project Number:			
Contractor:	Weather:			
1 – Were there any delays in work progress?				
Response:				
2 – Verbal instructions given by PARADIGM ENGINEERING:				
Response:				
3 – Did anything develop that may lead to a change order/claim?				
Response:				
4 – Activities in process:				
Response:				
5 – General comments:				
Response:				
6 – Safety Inspection/Safety Meetings:				
Response:				
7 – Prep/Initial Dates (Preparatory and initial dates held and advance no	tice)			
Response:				



CONTRACTOR'S QUALITY CONTROL REPORT (CQCR) WEEKLY LOG OF CONSTRUCTION		Report Number: Page <u>2</u> of <u>2</u>			
		Date:			
Project Name:		Project Number:			
Activity Start/Fin	ish:				
QC Requirements	S:				
QA/QC Punch Lis	t:				
Contractors/Visit	ors on Site:				
Equipment Hours	s (Total Operating Hours to Date):				
Accident Reporti	ng (Describe Accident):				
Contractor Certification	On behalf of the contractor, I certify that this report is equipment and material used and work performed du compliance with the contract, plans and specifications except as noted above.	ring this reporting period are in			



Non-Conformance Report							
	<project number=""></project>						
Structural 🗆	Structural   Mechanical   Electrical						
Date:	Date: Location: Spec. Section:						
Non-Conforming Condition	n:						
Reported By (Quality Con	Reported By (Quality Control Representative):  Date:						
Disposition:							
Dispositioned By (Project	Date:						
Re-Inspected By (Quality	Date:						
Accepted By (Quality Con	Date:						



Construction Punch List						
Project Name:			Project Number:			
St	ructural 🗆	Mechanical	Electrical 🗆	Civil 🗆		
Inspected By:		Date:	Page: of			
Item No.	Description		Completed by Construction (Sign/Date)	Accepted by Quality Control (Sign/Date)		



	VA ( a dala a d	04/06 D-5:	- Fastana B. (1911)	- D.O	-	
Project		Project Num	Project Number:			
Date:		Time: Location:		Page: c	of	
		Atte	endees			
PARADIGM ENGINEERING		Contractor	ctor Subcontractors		Other	
No.		Description of Item Di	scussed	Action Date	Action By	
					,	



	Preparator	y Meeting Ch	eck	list (to suppo	rt ea	ach DFOW)	
Project	Name:					Project Number:	
DFOW:							
Date:		Sheet:		Spec. Section:		Page: <u>1</u> of <u>3</u>	
	PARADIGM ENGI	NEERING Representa	tive N	otified? YES	□ N	0	
	Name	•	Posi	tion	Com	pany/Government	
Ę							
SE							
PRE							
틸							
Z							
PERSONNEL PRESENT							
PE							
	Review submittals and/or submittal register. Have all submittals been approved? YES \( \subseteq \text{NO} \subseteq \)						
	If no, what items have not been submitted?						
S	Are all materials on hand? YES   NO   NO   NO   NO   NO   NO   NO   N						
Ι¥	If no, what items are missing?						
Ξ	ii iio) wiiat iteiiis	4.6.1113311181					
SUBMITTALS							
",	Check approved :	submittals against del	ivered	material. (This shoul	d be do	one as material arrives)	
	Comments:						
	Are materials stored properly? YES  NO  If no, what action is taken?						
A H	ir no, what action	i is taken?					
MATERIAL							
1AT 101							
≥ v							



Preparatory Meeting Checklist (to support each DFOW)					
Project	Name:	Project Number:			
DFOW:					
Date:		Sheet:	Spec. Section:	Page: <u>2</u> of <u>3</u>	
	1				
	Review each para	agraph of specifications.			
ON S	Discuss procedur	e for accomplishing the wor	k.		
CAT					
SPECIFICATIONS					
SPI	Clarify any differ	ences.			
Y IITS	If no, what action	ry work is correct and perm	its area on file.		
PRELIMINARY WORK & PERMITS	ii iio, wiiat actioi	no taken.			
<u> </u>					
PREI					
_ >					
	Identify test to b	e performed, frequency and	by whom.		
	When required?				
D D					
TESTING	Review testing p	an.			
-					
	Have test facilitie	es been approved?			



Preparatory Meeting Checklist (to support each DFOW)							
		Project Name:		Project Number:			
DFOW							
Date:	Sheet	:	Spec. Section:	Page: <u>3</u> of <u>3</u>			
-	_						
	Site Safety Plan Approve	d? YES 🗌 NO 🗆	]				
≥	Review Site Safety Plan:						
SAFETY							
<i>†</i> S							
	Comments during meeti	ng:					
_ <u>v</u>							
MEETING							
EET							
ΣÖ							
	Worksheets:						
ETS							
WORKSHEETS							
)RK							
W							
	Other items or remarks:						
<u>~</u>	Other items of remarks.						
OTHER ITEMS OR REMARKS							
IER ITEMS REMARKS							
EM.							
품 =							
Ö							
		I no to octan		Designated Burn			
Reporte	еа ву:	Reviewed By:		Reviewed By:			
(Quality	y Control Inspector)	(Quality Control	Manager)	(MSD QA Representative)			



Initial Inspection Checklist									
Project	Project Name:						Project Number:		
DFOW:									
Date:	Sheet: Spec. Section: Page: of						-		
						•			
No.			Item			Yes	No	N/A	
1	Was the production foreman present?								
2	Material								
a)	Were materials in	nspected	for compliance?						
b)	Were corrective	actions ta	ken for defective r	naterial?					
c)	Were corrective	actions ap	propriate?						
d)	Were any deviati	ons accep	oted?						
3	Installation Requ	irements							
a)	Did work comply with specifications or plans?								
b)	Was workmanship satisfactory?								
c)	Were corrective actions appropriate?								
d)	Were any deviations accepted?								
4	Tests								
a)	Were tests being	performe	ed?						
b)	Was testing frequency satisfactory?								
c)	Were test samples or locations appropriate?								
d)	Was testing quality coordinated with Mechanical/Electrical technicians?								
5	Inspections								
a)	Was inspection done by the QC Inspector in the Prep. meeting?								
b)	Was the inspection frequency as established in the Prep. Meeting?								
c)	Were critical inspections satisfactory?								
d)	Was the inspection satisfactory?								
6	Safety								
a)	Was the safety officer present?								
b)	Were the safety requirements followed?								
c)	Were the safety requirements modified?								
Remark	s (explanations red	uired for	"No" responses ar	d if deviations	were accepte	ed):			
Reporte	ed By:		Reviewed By:	Reviewed By: Reviewe		ved By:			
(Quality			(Ouality Control I	Manager)	(Quality A	(Quality Assurance Representati		ntative)	



Receiving Material Inspection Report						
Project Name:				Project Number:		
DFOW:						
Date Receiv	ved: Order Number:	Date Inspected:		Inspected By:		
Ref No.	Item Description	Quantity	Partial or Full?	Okay or Damaged?	Special Storage?	
Remarks (e)	xplanations required for partial and dan	naged material):				



# **PARADIGM ENGINEERING QC Worksheets**

Check worksheets that apply based on those listed in bid package and attach:

Cable Test Data Form
Calibration Sheet
Circuit Breaker Schedule
Control Circuit Piping Leak Test Form
Controller Calibration Test Data Form
Cut-in Schedule Form
Dry Transformer Test Data Form
Equipment Record Form 1
Equipment Record Form 2
Equipment Test Report Form
Individual Loop Test Data Form
Installed Motor Test Data Form
Loop Commissioning Test Data Form
Loop Wiring and Insulation Resistance Test Data Form
Manufacturer's Installation Certification
Manufacturer's Instruction Certification Form
Misc Instrument Calibration Test Data Form
Motor Control Center Test Form
Motor Data Form
Operation and Maintenance Transmittal Form
Requrest for Contractor Proposal
Submittal Transmittal Form
Substitution Request Form
The Control of the Co
Unit Responsibility Certification Form
Wire and Cable Resistance Test Data Form



# **Contractor QC Documentation**

(Attach resumes and applicable worksheets including Contractor recommended forms)