

TEXAS UTILITIES GENERATING CO. CPSES	INSTRUCTION NUMBER QI-QP-2.1-4	REVISION 6	ISSUE DATE JUL 28 1983	PAGE 1 of 7
QUALIFICATION OF PROTECTIVE COATING INSPECTION PERSONNEL	PREPARED BY: <u>[Signature]</u> <u>7/27/83</u> DATE APPROVED BY: <u>[Signature]</u> <u>7/27/83</u> DATE APPROVED BY: <u>[Signature]</u> <u>7/27/83</u> DATE FOR INFORMATION ONLY			

1.0 REFERENCES

- 1-A CP-QP-2.3, "Documentation Within QA/QC Personnel Qualification File"
- 1-B CP-QP-2.1, "Training of Inspection Personnel"

2.0 GENERAL

The purpose of this instruction is to define specific inspection functions and capabilities for protective coatings inspection personnel. TUGCO Quality Engineering will assure that the required training is accomplished. The requirements contained herein are not applicable to material, parts or components under the jurisdiction of the ASME Code, Section III, Division I.

3.0 INSTRUCTION

3.1 PROTECTIVE COATING QC TECHNICIAN INSPECTION FUNCTION

Inspection functions may include, but are not limited to, the following:

- a. Performing surface preparation inspections
- b. Perform surveillance of storage and handling of protective coating materials.
- c. Performing protective coating mixing inspections
- d. Performing in-process inspections of protective coating applications
- e. Preparing reports that give the results of the above tests

Rec'd 9/11/84 @ CA

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3.1.1 Training and Examination

Protective Coating QC Technicians shall have knowledge and skill to adequately perform their assigned task. The following shall be used as a guide for training and examination of Protective Coating QC Technicians:

- a. Construction specifications and procedures
- b. Basic inspection plans and procedures
- c. Specific instructions, checklist and reports used in performance and documentation of inspections and tests
- d. "Hands on" experience using inspection and test equipment
- e. Familiarization with required measuring and test equipment
- f. Minimum on the job (OJT) requirements are defined on the Protective Coating Technical Outline (Figure 1)

3.2 PROTECTIVE COATING QC INSPECTOR

Inspection functions may include, but are not limited to, the following:

- a. May perform duties as a Protective Coating QC Technician in the activities for which qualified/certified
- b. Prepares and interprets reports
- c. Provides technical direction to Protective Coating QC Technician(s)

3.2.1 Training and Examination

Protective Coating QC Inspectors shall have sufficient knowledge and skill to adequately perform their assigned tasks. The following shall be used as a guide for training and examination of Protective Coating QC Inspectors:

- a. Construction specifications and procedures
- b. Basic inspection plans and procedures
- c. Specific instructions, checklist and reports used in performance and documentation of inspection and test

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d. "Hands on" experience using inspection and test instructions

e. Familiarization with required measuring and test equipment

f. Preparation and interpretation of test results.

3.3 TRAINING AND DOCUMENTATION

Qualification of Protective Coating inspection personnel shall be documented in accordance with Reference 1-B.

Protective Coating inspection personnel shall complete the General Training Outline (required by Reference 1-B) and the Protective Coating General Technical Outline (Figure I). On completion of the General Training Outline, the QC Supervisor or his designee shall interview the trainee and sign and date the Outline. In addition to the Protective Coating General Technical Outline, specific Quality Instructions have been developed by Quality Engineering, for each Protective Coating inspection activity. These form the basis of information required for a particular inspection function.

Protective Coating personnel are certified in a given inspection function/activity. A Technical Training Outline (Figure I) documenting qualification requirements for a given inspection function/activity will be completed and verified by the cognizant QA/QC Supervisor.

3.4 QUALIFICATION MATRIX (WORD PROCESSOR PRINTOUT)

A matrix shall be maintained by the Protective Coating QC Supervisor to identify the specific inspections an individual is qualified to perform. The specified inspections shall be indexed by the Quality Procedure or Instruction.

3.5 TRAINING CERTIFICATION

Inspection Certification per Reference 1-B certifying satisfactory completion of training in accordance with this Instruction will be placed in an individual file for each QC employee, signed by the Site QA Supervisor and Quality Control Supervisor or their designees.

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Certification in a particular inspection function will
be for a period of 1 year.

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FIGURE 1

CPSES QUALITY CONTROL DEPARTMENT
PROTECTIVE COATING GENERAL TECHNICAL OUTLINE

NAME: _____ DATE COMMENCED: _____

A. Read and discuss the following documents with designated Lead Inspectors:

1. G&H Specification AS-31. "Protective Coatings"

Trainee _____	Date _____	Lead Inspector _____	Date _____
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2. CP-QP-2.J, "Implementation of CPSES Program"

Trainee _____	Date _____	Lead Inspector _____	Date _____
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3. CP-QP-3.0, "CPSES Site QA/QC Organization"

Trainee _____	Date _____	Lead Inspector _____	Date _____
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4. CP-QP-11.4, "Inspection of Protective Coatings"

Trainee _____	Date _____	Lead Inspector _____	Date _____
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5. QI-QP-11.4-1, "Inspection of Steel Substrate Surface Preparation and Primer Application"

Trainee _____	Date _____	Lead Inspector _____	Date _____
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6. QI-QP-11.4-5, "Inspection of Steel Substrate Primer Repair and Seal and Finish Coat Application and Repair"

Trainee _____	Date _____	Lead Inspector _____	Date _____
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7. QI-QP-11.4-8, "Inspection of Special Coating Operations"

Trainee _____	Date _____	Lead Inspector _____	Date _____
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8. QI-QP-11.4-9, "Inspection of Shop Primed Equipment"

Trainee _____	Date _____	Lead Inspector _____	Date _____
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9. QI-QP-11.4-10, "Inspection of Concrete Substrate Surface Preparation & Coatings Application & Repair"

Trainee _____	Date _____	Lead Inspector _____	Date _____
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FIGURE 1 (Cont.)

PROTECTIVE COATINGS GENERAL TECHNICAL OUTLINE
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10. QI-QP-11.4-17, "Surveillance of Storage and Handling of Protective Coatings"

Trainee _____	Date _____	Lead Inspector _____	Date _____
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11. QI-QP-11.4-20, "Final Inspection of Steel Substrate Finish Coats"

Trainee _____	Date _____	Lead Inspector _____	Date _____
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12. QI-QP-11.4-21, "Final Inspection of Concrete Substrate Finish Coats"

Trainee _____	Date _____	Lead Inspector _____	Date _____
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13. QI-QP-11.4-22, "QC Verification of Protective Coatings Unique Identification Number Transfer"

Trainee _____	Date _____	Lead Inspector _____	Date _____
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14. QI-QP-11.4-23, "Reinspection of Coatings Applied on Steel Substrates"

Trainee _____	Date _____	Lead Inspector _____	Date _____
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15. QI-QP-11.4-24, "Reinspection of Protective Coatings on Concrete Substrates for which Documentation is Missing or Discrepant"

Trainee _____	Date _____	Lead Inspector _____	Date _____
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16. CCP-30, "Coating Steel Substrates Inside Reactor Building & Radiation Areas"

Trainee _____	Date _____	Lead Inspector _____	Date _____
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17. CCP-30A, "Coating Steel Substrates Inside Reactor Building & Radiation Areas"

Trainee _____	Date _____	Lead Inspector _____	Date _____
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18. CCP-40, "Protective Coating of Concrete Surfaces"

Trainee _____	Date _____	Lead Inspector _____	Date _____
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19. CP-QP-13.0, "Control of M&TE"

Trainee _____	Date _____	Lead Inspector _____	Date _____
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FIGURE 1 (Cont.)

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20. CP-QP-15.0, "Tagging System"

Trainee _____ Date _____ Lead Inspector _____ Date _____

21. CP-QP-16.0, "Nonconformances and Deficiencies"

Trainee _____ Date _____ Lead Inspector _____ Date _____

22. CP-QP-18.0, "Inspection Report"

Trainee _____ Date _____ Lead Inspector _____ Date _____

B. Perform a minimum of 100 hours "on-the-job" training in this activity.

QC Supervisor _____

C. Demonstrate proficiency in performing inspection.

QC Supervisor _____

D. Demonstrate proficiency in completing the inspection checklist(s).

QC Supervisor _____

E. Attend formal training session for this activity.

QC Supervisor _____

F. Examination completed.

Score: Concrete _____

Steel _____

Backfit _____

QC Supervisor _____

Comments: _____

Training Completed: _____

QC Supervisor _____

Date _____

TEXAS UTILITIES GENERATING COMPANY

OFFICE MEMORANDUM

To Historical File Glen Rose, Texas 7-23-84
Subject Re-numbering/Deletion of Procedures/Instructions

This Procedure/Instruction CP-QP-15.4 has been deleted
as of this date.

Lisa M. Biefeldt

HISTORICAL FILE

FOR INFORMATION ONLY

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9/11/84@CA

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3.2 DOCUMENT REVIEW

Design change documents requiring verification shall be reviewed to ascertain if incorporation into the physical plant has taken place. The review shall be accomplished under the direction of the Quality Assurance Specialist Supervisor or his designee. The review process will utilize records found in the Permanent Plant Record Vault (PPRV) such as Inspection Reports, computer data, Operation Travelers, Item Removal Notices, cable pull cards, etc. The results of the review shall indicate whether all attributes of the design change have been complied with ("closed") or if further inspection is required ("open").

3.3 DESIGN CHANGE VERIFICATION

When the review, as denoted in paragraph 3.2, indicates further inspection is required, the Design Change Verification Group (DCVG) shall transmit a copy of the "open" design change document to the appropriate inspection group for field verification. Upon receipt of a "Sat" Inspection Report the DCVG shall "close" the design change document. Quality Engineering personnel shall be utilized when necessary to assist the DCVG for resolution of design change incorporation problems.

The results of the design change document search shall be documented on a data sheet in preparation to entering the accumulated data into the appropriate computer data base.

3.4 DATA TRACKING FILE PREPARATION

Each design change document type (DCA and CMC) shall be tracked through a computer data file. Each file shall list the individual document number, affected hardware and closing reference documents, as well as other pertinent data. These files shall be created such that the files may be sorted in various ways and to facilitate speedy recall of data.

Each file shall be kept current by continually adding to the data file newly issued or revised design change document data.

Working File, Coatings #1 and #6

Letters in re Allegation #21

Liner Adhesion Tests

Concrete DFT's + Adhesion tests

Miscellaneous Steel Take Tests

Audit of Miscellaneous Steel

Coatings Exempt Log

Audit of SG #1 + #4 Concrete

Early Data on DFT's + Adhesion Tests
on Liner and Concrete

SS Kirsli's

Audit of Miscellaneous Steel

Early Data on DAT's +
Adhesion Tests on
Liner and Concrete

DFTA + Pull Testson

Audit of Miss Steel

42
252
DEF = 15.5%

PCR	addition	DFT	Area	
2137	-	(2 ^{HP} law) 6	<10	
2145	⁻³⁰ 400	(1 ^{HP} law) 6	<5	
2700	-	(1 ^{HP} law) 6	"	
2101	⁻³⁰ 250	(2 ^{HP} law) 6	<5	
2102	-	-	6 <5	
2103	⁻³⁰ 200	(1 ^{HP} law) 6	<10	NCR-C-81-0137
2105	⁻³⁰ 200	1 ^{HP} law 6	<5	03105
2515	-225 (2125) -	2 6	?	NCR-C-84-01242
2106	-	-	6 <5	USA 1-14-5
2107	-	(2 ^{HP} law) 6	<5	
2108	⁻³⁰ -250 (12-10-82)	1 ^{HP} law 6		3105
2163	⁻³⁰ -300	-	6	"
2164	⁻³⁰ -200	-	6	
2165	-320 100 → 150	-	6	"
2166	⁻³⁰ 225 200 300	-	6	C-83-02105
2167	(2325, 12-16-82) -30 250	-	6	"
2168	300 - 250	-	6	"
2169	⁻³⁰ 200 200	-	6	"
2170	-	-	6	"
2171	⁻³⁰ 225 (2324, 12-17-82)	(2 ^{HP} law) 6		
2172	-	-	6 <5	
2173	-	-	6 "	
7	-	-	6 <10	"
6	⁻³⁰ 225 225 275 (2324, 12-17-82)	-	6	
5	⁻³⁰ 200	-	6 <5	"
4	⁻³⁰ 225 Value in =	1 ^{HP} law 6	<5	03103
3	⁻³⁰ 300	(3 ^{HP} law) 6	<5	03104
2	⁻³⁰ 300	1 ^{HP} law 6	<10	"
2181	-	-	6 <5	03105
2180	⁻³⁰ 250	-	1	"

audit of wire steel (P.2)

PCR	addition	DFT	area	Disposition
1299	—	—	6 L10	C-83-03103 #1
2141	⁻²⁰ 300 —	(2 low)	6	03105
0	⁻²⁰ 375	(3 low)	6 L10	"
2139	—	"	6 L10	"
8	⁻³⁰ 2341 12-17-62 300-225	"	6	"
2157	⁻³⁰ 350	—	6 L10	"
9	⁻³⁰ 300	—	6 L5	"
2160	— — —	—	6	"
1	— — —	—	6	"
2	— — —	—	6	"
2264	— — —	(3 high)	6 Use as is	03105
2	— — —	(4 high)	6	"
1742	NA	inaccessible	(splitting load not supports)	
1		"	"	C-81-1371A
0		"	"	"
1739		"	"	"
8		"	"	"
7		"	"	"
1745		"	"	"
6		"	"	"

42 PCRs 16 failed ^{adher} readings out of 78