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QUALIFICATION OF DESIGN CHANGE VERIFICATION PERSONNEL	PREPARED BY: <u>[Signature]</u>	DATE: <u>7/27/83</u>
	APPROVED BY: <u>[Signature]</u>	DATE: <u>7/27/83</u>
	APPROVED BY: <u>[Signature]</u>	DATE: <u>7/27/83</u>

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 Design Change Verification personnel. The TUGCO Quality Assurance Specialist Supervisor will assure that the requisite 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 DESIGN CHANGE VERIFICATION TECHNICIAN FUNCTION

The design change verification activities include, but are not limited to, the following:

- Performs review of previous Inspection Reports to assure design change incorporation.
- Inspects the physical item(s) affected by the design change to assure design change incorporation.
- Identifies design change errors of incorporation where craft has performed design change work incorrectly.
- Initiates Inspection Reports as necessary to document incorporation verification.

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3.1.1 Training and Examination

Design Change QC Technicians shall have the requisite knowledge and skill to adequately perform their assigned tasks. The following shall be used as a guide for training and examining DCVG Technicians:

- a. Construction specifications and procedures
- b. Basic inspection plans and procedures
- c. Specific instructions, checklists, and reports used in performance and documentation of inspection and tests
- d. Design change documents
- e. "Hands on" experience using inspection and test instructions
- f. Familiarization with required measuring and test equipment.

3.2 DESIGN CHANGE VERIFICATION INSPECTOR FUNCTION

Design Change Verification inspection functions include, but are not limited to, the following:

- a. May perform duties as a Design Change Verification Technician in areas to which certified/qualified
- b. Prepares and interprets reports
- c. Provides Technical Assistance to DCV Technicians

3.2.1 Training and Examination

Design Change QC Inspectors shall have the requisite knowledge and skill to adequately perform their assigned tasks. The following shall be used as a guide for training and examining DCVG Inspectors:

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

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- d. Design change documents
- e. "Hands on" experience using inspection and test instructions
- f. Familiarization with required measuring and test equipment

3.3 TRAINING DOCUMENTATION

Qualification of Design Change Verification inspection personnel shall be documented in accordance with Reference 1-B.

Inspection personnel shall complete the General Training Outline (required by Reference 1-B) and the Design Change Verification Technical Training Outline (Figure 1). On completion of the General Training Outline, the QA Specialist Supervisor or his designee shall interview the trainee and sign and date the Outline. In addition to the Specific Technical Outline, specific Quality Instructions have been developed by Quality Engineering for each inspection activity. These form a particular inspection function.

3.4 QUALIFICATION MATRIX (SYSTEM 6 PRINTOUT)

A matrix shall be maintained by the QA Specialists 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 inspector, signed by the Site QA Supervisor and Quality Assurance Specialist Supervisor or their designees.

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

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FIGURE 1

CPSES QUALITY CONTROL DEPARTMENT

DESIGN CHANGE VERIFICATION

GENERAL TECHNICAL OUTLINE

NAME _____ DATE COMMENCED _____

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

1. CP-QP-2.0, "Implementation of CPSES QA Program"

Trainee _____ Date _____ Lead Inspector _____ Date _____

2. CP-QP-3.0, "CPSES Site QA/QC Organization"

Trainee _____ Date _____ Lead Inspector _____ Date _____

3. G&H Specification ES-100, "Electrical Erection Specification"

Trainee _____ Date _____ Lead Inspector _____ Date _____

4. CP-QP-11.3, "Electrical Inspection Activities"

Trainee _____ Date _____ Lead Inspector _____ Date _____

5. QI-QP-11.3-24.7, "Train 'C' Cable Tray Hanger Reinspection"

Trainee _____ Date _____ Lead Inspector _____ Date _____

6. CP-QP-11.10, "Inspection of Electrical Raceway Support System"

Trainee _____ Date _____ Lead Inspector _____ Date _____

7. QI-QP-11.10-1, "Inspection of Exposed Conduit Raceway Support System"

Trainee _____ Date _____ Lead Inspector _____ Date _____

8. QI-QP-11.10-2, "Cable Tray Hanger Inspection"

Trainee _____ Date _____ Lead Inspector _____ Date _____

9. QI-QP-11.10-4, "Inspection of Seismically Mounted Conduit Supports"

Trainee _____ Date _____ Lead Inspector _____ Date _____

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FIGURE 1 (CONT.)

DESIGN CHANGE VERIFICATION GENERAL TECHNICAL TRAINING OUTLINE

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10. G&H Specification SS-168, "Structural Steel"

Trainee _____	Date _____	Lead Inspector _____	Date _____
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11. G&H Specification SS-17, "Miscellaneous & Embedded Steel"

Trainee _____	Date _____	Lead Inspector _____	Date _____
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12. CP-QP-11.14, "Structural Steel Inspection Activities"

Trainee _____	Date _____	Lead Inspector _____	Date _____
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13. QI-QP-11.14-1, "Inspection of Site Fabrication and Installation of Structural and Miscellaneous Steel"

Trainee _____	Date _____	Lead Inspector _____	Date _____
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14. QI-QP-11.14-2, "Inspection of Stud Welding"

Trainee _____	Date _____	Lead Inspector _____	Date _____
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15. QI-QP-11.14-3, "Inspection of Structural/Miscellaneous Steel Welding"

Trainee _____	Date _____	Lead Inspector _____	Date _____
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16. QI-QP-11.14-4, "Control of Material Traceability for Site Fabricated Structural /Miscellaneous Steel"

Trainee _____	Date _____	Lead Inspector _____	Date _____
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17. QI-QP-11.16-1, "Installation Inspection of Class 5 Supports"

Trainee _____	Date _____	Lead Inspector _____	Date _____
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18. CP-QP-15.4, "Design Change Verification"

Trainee _____	Date _____	Lead Inspector _____	Date _____
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19. QI-QP-15.4-2, "Design Change Verification Implementation"

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

DESIGN CHANGE VERIFICATION
GENERAL TECHNICAL TRAINING OUTLINE

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- B. Perform a minimum of 40 hours OJT in Design Change Verification inspections.

QC Supervisor _____ Date _____

- C. Demonstrate proficiency in performing inspection.

QC Supervisor _____ Date _____

- D. Demonstrate proficiency in completing the inspection checklist.

QC Supervisor _____ Date _____

- E. Attend a formal training session for this activity.

QC Supervisor _____ Date _____

- F. Satisfactorily complete the examination.

QC Supervisor _____ Date _____

COMMENTS: _____

TRAINING COMPLETE:

QC Supervisor _____ Date _____