1.0 PURPOSE

The purpose of this procedure is to establish the system for training and qualification of construction quality control personnel.

2.0 SCOPE

2.1 This procedure applies to both Pike and subcontracted work.

2.2 This procedure sets forth requirements for training and qualification of construction site quality control personnel.

2.3 Training and qualification will be performed as required to assure that Pike and Subcontractor personnel who perform quality functions are capable of executing their assigned duties.

3.0 REFERENCES

3.1 Project Procedure P-1-15, Special Process Control (Welding & NDE)

3.2 Project Procedure P-1-17, Surveillance Procedure (Construction Site)

3.3 Project Procedure P-1-19, Reading for Understanding

3.4 American Society for Nondestructive Testing (ASNT) ASNT-SNT-TC-1a, Personnel Qualification and Certification in Nondestructive Testing

4.0 DEFINITIONS

None

5.0 RESPONSIBILITIES

5.1 The QA/QC Manager is responsible for determining the capabilities of candidates proposed for field assignment as Site Quality Control Manager.

5.2 The Site Quality Control Manager is responsible for determining the capabilities of construction site quality control personnel, including Subcontractor personnel. This
responsibility may, in certain cases, require assistance from technical specialists in the home office.

6.0 **PROCEDURE**

6.1 **VISION REQUIREMENTS**

6.1.1 The Site Quality Control Manager or designee will verify performance of an annual vision examination for permanently assigned Quality Control personnel. The examination shall assure natural or corrected near distance acuity such that the individual can read J-1 letters on a standard Jaeger near-vision chart or equivalent test. A one-time color test shall also be administered to confirm that each individual can recognize the four basic colors (red, yellow, blue, and green). The color test may be required on a more frequent basis depending on specific Project requirements.

6.1.2 Subcontractors shall perform annual vision examinations for their quality control personnel in accordance with Contract requirements.

6.2 **QUALIFICATION**

6.2.1 **Quality Control Personnel (other than Nondestructive Examination)**

6.2.1.1 Pike personnel who perform routine discipline inspections (Civil/Structural, Mechanical, Electrical, Instrumentation, etc.) shall be considered qualified provided they meet one or more of the following requirements:

- A high school diploma or equivalent and a minimum of five years experience in design, fabrication, installation, or inspection of related construction
- A related technical school diploma and a minimum of two years experience in design, fabrication, installation, or inspection of related construction
- Demonstrate a working knowledge of the construction discipline through a combination of interviews, ability demonstrations, and/or written or verbally administered examinations

6.2.1.2 Pike personnel designated as visual welding inspectors shall meet one or more of the following:

- Current certification as an American Welding Society-Certified Welding Inspector (AWS-CWI) or other equivalent domestic or foreign technical society certification
- ASNT-SNT-TC-1a Level II or Level III in Visual Method (Welding Inspection Specific) (Reference 3.4)
When Contract specifications and construction codes do not mandate formal certification of visual welding inspectors, the qualification methodology of previous Paragraph 6.2.1.1 may be applied (welding craft specific).

6.2.1.3 Pike personnel who perform construction site quality surveillances shall, as a minimum, meet the qualification requirements of Paragraphs 6.2.1.1 and 6.2.1.2. The need for any additional auditor qualifications will be decided by the QA/QC Manager on a Project requirements basis. For additional audit information see the Surveillance Procedure (Construction Site) (Reference 3.2).

6.2.1.4 Subcontractor quality control personnel shall be qualified in accordance with the Contract requirements.

6.2.2 Nondestructive Examination Personnel

See the Special Process Control (Welding & NDE) procedure (Reference 3.1).

6.2.2.1 Pike personnel performing the following test methods shall be qualified and certified as Nondestructive Examination (NDE) Level I, II, or III in the appropriate test method(s):

- Liquid penetrant (PT)
- Magnetic particle (MT)
- Radiography (RT)
- Ultrasonic (UT)
- Eddy current (ET)

Qualification shall be in accordance with the ASNT-SNT-TC-1a, Personnel Qualification and Certification in Nondestructive Testing (Reference 3.4).

6.2.2.2 Pike personnel interpreting only radiographic results (film interpreters) shall be certified as Level II radiography (RT) “interpretation only.” Personnel certified as RT Level II or Level III in accordance with Paragraph 6.2.2.1 are considered qualified film interpreters.

6.2.2.3 Subcontractor NDE personnel shall be qualified and certified in accordance with Contract requirements.

6.2.2.4 NDE personnel qualifications and certifications shall be approved by the QA/QC Manager or other qualified designee.
6.3 TRAINING

6.3.1 The QA/QC Manager is responsible for assuring Pike and Subcontractor quality control personnel are trained to execute their assigned duties.

6.3.2 NDE training is addressed in the appropriate industry-based training manuals (see Reference 3.4).

6.3.3 Subcontractor quality control personnel shall be trained in accordance with Contract requirements. See the Reading for Understanding procedure (Reference 3.3).

6.4 RECORDS

6.4.1 Training will be documented.

6.4.2 Subcontractor personnel training and qualification will be documented in accordance with Contract requirements.

6.4.3 Training and qualification records shall be maintained at the construction site in accordance with Project requirements.

6.4.4 Training and qualification records may be hard copy or electronic files.

7.0 ATTACHMENTS

None

8.0 FORMS

None

9.0 REVISIONS AND APPROVALS

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