

EVALUATION RESEARCH CORPORATION

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COMANCHE PEAK RESPONSE TEAM

PROJECT PROCEDURE FOR ISSUE SPECIFIC ACTION PLAN VII.c

PROCEDURE NO.: CPP-005

REVISION: 0

EFFECTIVE DATE: 8/13/85

FOR

ESTABLISHING POPULATIONS

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DATE: 8/12/85

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ACTION PLAN ISSUE COORDINATOR

DATE: 8/13/85

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ON-SITE QA REPRESENTATIVE

DATE: 8-13-85

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QA/QC REVIEW TEAM LEADER

DATE: 8/13/85

## 1.0 PURPOSE

This procedure describes the method to **establish populations** of safety related work completed, inspected, and accepted which will be subject to reinspection and documentation review on a sampling basis as required by Issue-Specific Action Plan (ISAP) VII.c.

## 2.0 APPLICABILITY

This procedure is applicable to safety related hardware constructed and final QC accepted at Comanche Peak Units 1, 2, and areas common to both units.

## 3.0 REFERENCES

3.1 CPP-011 Deficiency Evaluation

## 4.0 GENERAL

Major categories, or populations of hardware containing similar safety related work activities will be placed into reasonably homogeneous groups, the adequacy of which can be verified using similar reinspection and/or documentation review activities.

### 4.1 Responsibilities

#### 4.1.1 QA/QC Engineering Supervisor

The QA/QC Engineering Supervisor is responsible to:

- Complete, update, and distribute the Master Population List.
- Review, approve, and distribute Population Descriptions.
- Review, approve, and distribute Population Items Lists.

#### 4.1.2 QA/QC Lead Discipline Engineers

QA/QC Lead Discipline Engineers are responsible to:

- Review and approve Population Descriptions.
- Review and approve Population Items Lists.

#### 4.1.3 QA/QC Discipline Engineers

QA/QC Discipline Engineers provide input to the Master Population List and are responsible to:

- Complete Population Descriptions.
- Complete Population Items Lists.

#### 4.2 Policy

Activities performed under this procedure shall conform to the policies contained in the latest Comanche Peak Response Team Program Plan, ERC Management Program Plan, and ISAP VII.c.

Should an activity be designated as the responsibility of a QA/QC Lead Discipline Engineer, or higher, it may be delegated by that engineer to an individual under his or her supervision.

#### 4.3 Conflicts

In the case of a conflict between this procedure and the documents referenced in Section 4.2, the latter shall govern.

#### 4.4 Definitions

4.4.1 Population - Construction completed, inspected, and **final QC accepted, safety related groups** of similar components or activities, having common attributes that are verifiable by similar reinspection and document review activities.

4.4.2 Reinspections - Examinations of items which can be performed with meaningful results after construction is complete. Examples include configuration, visual weld, and location inspections. Reinspections are deemed **infeasible** if the examinations cannot be performed after construction. **Examples of infeasible** reinspections include in-process inspections such as verification of welding preheat, interpass, and post-weld heat treatment.

### 5.0 PROCEDURE

#### 5.1 Master Population List

Responsible QA/QC personnel solicit information relative to establishing populations from Texas Utilities Generating Company project support personnel as required.

### 5.1.1 Preparation and Review

QA/QC Discipline Engineers review applicable architect/constructor specifications, design drawings, lists, standards, and codes to identify safety related construction activities that can be reinspected. Population information derived from the QA/QC Discipline Engineers' reviews is forwarded to the QA/QC Engineering Supervisor for input into the Master Population List.

Subsequently, the QA/QC Engineering Supervisor reviews the information, then completes the Master Population List in accordance with Attachment 6.1.

Upon the approval of any (all) Population Description(s) (refer to Section 5.2), the QA/QC Engineering Supervisor updates the Master Population List in accordance with Attachment 6.1.

### 5.1.2 Distribution and Control

The QA/QC Engineering Supervisor ensures that any issued Master Population List and any pertinent information used to prepare it are distributed to the QA/QC Records Coordinator (File Location [Later]).

## 5.2 Population Descriptions

### 5.2.1 Preparation

The responsible QA/QC Discipline Engineers complete Population Descriptions in accordance with Attachment 6.2 for each construction activity listed on the Master Population List.

### 5.2.2 Review and Approval

Subsequently, the QA/QC Lead Discipline Engineer and the QA/QC Engineering Supervisor review and approve complete Population Descriptions in accordance with Attachment 6.2.

### 5.2.3 Distribution and Control

The QA/QC Engineering Supervisor ensures that approved Population Descriptions are distributed to the QA/QC Records Coordinator (File Location [Later]).

#### 5.2.4 Revisions

Revisions to Population Descriptions are prepared, reviewed, approved, distributed, and controlled the same as the original issue, except the preparer indicates any revised portions with a vertical line adjacent to the change.

### 5.3 Population Items List

#### 5.3.1 Preparation

Responsible QA/QC Discipline Engineers complete Population Items Lists in accordance with Attachment 6.3 for each safety related item that is complete, accepted by QC, and indicated on the Population Description Form (refer to Section 5.2).

#### 5.3.2 Review and Approval

Subsequently, the QA/QC Lead Discipline Engineer and the QA/QC Engineering Supervisor review and approve complete Population Items Lists in accordance with Attachment 6.3.

#### 5.3.3 Distribution and Control

The QA/QC Reinspection Engineering Supervisor ensures that approved Population Items Lists are distributed to the QA/QC Records Coordinator (File Location [Later]).

## 6.0 ATTACHMENTS

- 6.1 Master Population List Form (Sample and Instruction)
- 6.2 Population Description Form and Continuation Sheet (Sample and Instruction)
- 6.3 Population Items List Form and Continuation Sheet (Sample and Instruction)

MASTER POPULATION LIST FORM

COMANCHE PEAK RESPONSE TEAM MASTER POPULATION LIST											
PREPARED BY: <u>(4)</u> QA/QC ENGINEERING SUPERVISOR						DATE: <u>(4)</u>					
DISCIPLINE (CODE)		POPULATION (CODE)						POPULATION DESCRIPTION COMPLETION DATES			
(1)		(2)						(3)			
SAMPLE											
ISSUE	APP	ISSUE	APP	ISSUE	APP	ISSUE	APP	ISSUE	APP	ISSUE	APP
0	(5)	1		2		3		4		5	
ISSUE	APP	ISSUE	APP	ISSUE	APP	ISSUE	APP	ISSUE	APP	ISSUE	APP
6		7		8		9		10		11	

CPP-005.1, Revision 0



INSTRUCTIONS FOR COMPLETING  
FORM CPP-005.1  
"MASTER POPULATION LIST"

The QA/QC Engineering Supervisor enters:

- (1) The discipline code, i.e., structural(S), electrical(E), mechanical(M).
- (2) The population code, e.g., conduit (CDUT).
- (3) The date each Population Description Form is approved.
- (4) Name as preparer and date.
- (5) Initials to approve issue of the list indicating the Population Description(s) completion date(s).

NOTE: Upon the approval of all Population Descriptions, indicate "FINAL" in the appropriate issue block.

POPULATION DESCRIPTION FORM

COMANCHE PEAK RESPONSE TEAM POPULATION DESCRIPTION	
POPULATION NAME: _____ (1)	PAGE: 1 OF (2)
PREPARED BY: _____ (3) RESPONSIBLE QA/QC SUPPORT ENGINEER	DATE: _____ (3)
SYSTEM, COMPONENTS, AND STRUCTURES:  (4)	
POPULATION BOUNDARY:  (4)	
SPECIFIC INTERFACES:  (4)	
APPROVED BY: _____ (5) QA/QC LEAD DISCIPLINE ENGINEER	DATE: _____ (5)
APPROVED BY: _____ (5) QA/QC ENGINEERING SUPERVISOR	DATE: _____ (5)

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POPULATION DESCRIPTION FORM  
(Continuation Page)

COMANCHE PEAK RESPONSE TEAM POPULATION DESCRIPTION	
POPULATION NAME: _____ (1)	PAGE: (2) OF (2)
PREPARED BY: _____ (3) RESPONSIBLE QA/QC SUPPORT ENGINEER	DATE: _____ (3)
(4)  <b>SAMPLE</b>	

CPP-005.2B, Revision 0

INSTRUCTIONS FOR COMPLETING  
FORM CPP-005.2A and CPP-005.2B

"POPULATION DESCRIPTION"

The Responsible QA/QC ~~Discipline~~ Engineer enters:

- (1) Population name.
- (2) Page number information.
- (3) Name as preparer and date.
- (4) Population description including:
  - System, components, and structures included in the population.
  - The boundary of the population and any work specifically excluded.
  - Specific interfaces between the population and other populations.
- (5) The QA/QC Lead Discipline Engineer and the QA/QC Engineering Supervisor review Population Descriptions to ensure that they are complete, accurate, and consistent with the requirements of this procedure. Upon the completion of satisfactory reviews, the reviewers sign and date the form.

POPULATION ITEMS LIST FORM

COMANCHE PEAK RESPONSE TEAM POPULATION ITEMS LIST	
POPULATION NAME: _____ (1)	PAGE: 1 OF (2)
PREPARED BY: _____ (3) RESPONSIBLE QA/QC SUPPORT ENGINEER	DATE: _____ (3)
<p>POPULATIONS SOURCE:</p> <p style="text-align: center; margin-top: 40px;">(4)</p> <p style="text-align: center; margin-top: 100px;">BASIS FOR ACCEPTING THE LIST:</p> <p style="text-align: center; margin-top: 100px;">(4)</p> <p style="text-align: center; margin-top: 100px;">BASIS FOR ACCEPTING ANY ADDITIONAL ITEMS:</p> <p style="text-align: center; margin-top: 100px;">(4)</p>	
APPROVED BY: _____ (5) QA/QC LEAD DISCIPLINE ENGINEER	DATE: _____ (5)
APPROVED BY: _____ (5) QA/QC ENGINEERING SUPERVISOR	DATE: _____ (5)

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POPULATION ITEMS LIST FORM  
(Continuation Page)

COMANCHE PEAK RESPONSE TEAM POPULATION ITEMS LIST	
POPULATION NAME: _____ (1)	PAGE: (2) OF (2)
PREPARED BY: _____ (3) RESPONSIBLE QA/QC SUPPORT ENGINEER	DATE: _____ (3)
<p>(4)</p> <p style="font-size: 100px; opacity: 0.3; transform: rotate(-30deg);">SAMPLE</p>	

CPP-005.3B, Revision 0

INSTRUCTIONS FOR COMPLETING  
FORM CPP-005.3A and CPP-005.3B

"POPULATION ITEMS LIST"

The Responsible QA/QC Discipline Engineer enters:

- (1) Population name.
- (2) Page number information.
- (3) Name as preparer and date.
- (4) Population items selected, or references an attached list, and:
  - Identifies the source of the Population List.
  - Provides the basis for accepting the list as valid, e.g., the list identifies construction completed, inspected, and QC accepted safety related groups of similar components or activities having common attributes that are verifiable by similar reinspection and document review.

NOTE: Should the population be identified as a result of a deficiency evaluation, reference and attach the sample expansion plan. (see Reference 3.1)

- (5) The QA/QC Lead Discipline Engineer and the QA/QC Engineering Supervisor review Population Items Lists to ensure that they are complete, accurate, and consistent with the requirements of this procedure. Upon the completion of satisfactory reviews, the reviewers sign and date the form.