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December 31, 1987

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MOT ADMITTED IN D.S.

Office of the Secretary U.S. Nuclear Regulatory Commission Washington, D.C. 20555

ATTENTION: Docketing and Service Branch

Re: Texas Utilities Electric Company et at. Docket No. 50-445-OL and No. 50-446-OL

Dear Sir:

I am enclosing certain documents which are attachments to Applicants "Answers to Board's 14 Questions (Memo; Proposed Memo of April 14, 1986) Regarding Action Plan Results Report IX" filed on December 4, 1987. We would request that these documents be attached to the as-filed pleading. Copies of these documents are being served on all persons listed on the Service List.

Sincerely,

George L. Edgar 303

Enclosures

cc: Service List

B801060063 871231 PDR ADOCK 05000445 G PDR

10503

### ATTACHMENT I

## COMANCHE PEAK DESIGN CRITERIA REVIEW CHECKLIST

DSAP	CHECKLIST NUMBER
CRITERIA LIST NUMBER/REV	
Review Topic Number(s)/Title(s)	
List the Design Criteria Sources:	
General Design Criteria	
FSAR Section(s)	
ist Criteria Which Are Being Revi	iewed:
	Criteria No.

TN-85-6262/4 Attachment

1	"no." describe the mission day in
	"no," describe the missing design inputs.
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A	e the Identified Design Criteria for this Design Topic Consistent?
f	"no," describe the inconsistencies.
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THE REAL PROPERTY.	
re	the Design Criteria Adequately Defined to the Level of Detail Necessary to:
	Allow the design activity to be carried out in a correct manner? Yes No
	Provide a basis for making design decisions and evaluating design changes?  Yes No
	Provide a basis for accomplishing design verification? Yes No
	ny of the above are answered "no" describe the lack of detail

Summarize Results of the Re-	view.	
and its control of the control of th		
eviewer	Date	
iscipline Coordinator	Date	
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### ATTACHMENT II

# COMANCHE PEAK DESIGN REVIEW SUMMARY CHECKLIST

		CHE	CKLIST NU	MBER
DSAP Review Topic Num	nber(s)/Title(s)			
Documents Reviewed:				
Document Name	Number	Rev	Date	Safety-Related Yes No
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escription of Review Sco	ope and Purpose.		MC To Charles and Associate to Charles and Associate to Charles and Charles an	

List Design Criteria for this Review		
	***	
Assumptions Listed for Each Document?	Yes	No _
Are the Assumptions Reasonable and Valid?		No_
Are the Assumptions Consistent with		
Design Criteria/Implementing Documents?  Have all Assumptions which Require	Yes	No_
Verification Been Verified?	Yes	_ No _
Comments on A		
Comments on Assumptions (Discuss Each "No" Answer A	bove)	
		MANAGEMENT OF THE STREET

Are the References Including Data Sources (for the Documents Reviewed) Listed?	Yes	No	
Are References Sufficiently Identified with Revision or Date?		No	
Comments on References: (Discuss Each "No" Answer Above)			
	March Street,		***************************************
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as an Appropriate Design Method Used?	TO THE OWNER WHEN THE PARTY AND	AND	
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00 (3/3/)			

List Computer Programs Used. Program Verified Reference Yes/No Are the Computer Outputs Reasonable Compared to Inputs? Explain

TN-85-6262/4 Attachment

Summarize Re	esults of the Review.		
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Discrepancies Ide	ntified (if applicable) (Refe	erence DAPTS DIR Number)	
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Reviewer		Date	
Discipline Coordin	ator	Date	Medical property and the second property and the secon
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TN-85-6262/4 Attachment

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		28.87.473	21 PVII-7-782, BPD4 IONTION OF 64056 RMD NET SECTIONS IN DESIGN.							
		36.00.076	3) TVII-2243, CACCLARION OF MET SECTIONS.							
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		A. R. 879	FOTENISM CONCETIONS MEET THE PROJECTIONS OF TVIL. 7413.							

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I TEM / I SSUE	DESCRIBTION	STEEL STREETUNG SHEETS RED CHRISTON I SHEGORIS, SECTION FIFE BIVISION I, CINCINECTION 19PE C. 232-455, 440 ROW CE. 17781	THE STATE SETTION III DIVISION IN CASS I, 5, 3 000 MC.  CORSTITUTION OF CONTENNENT SERVICES (SPECIFICATION OF CONTENNENT SERVICE) STREET SERVICES (SPECIFICATION OF CONTENNENT SERVICES) SERVICES (SPECIFICATION OF CONTENNENT SERVICES (SPECIFICATION OF CONTENNE	WITH WELD DESIGN FOR LIES FOR SECTION 11, DIRECT 11, 2, 3 AND NE CONSTRUCTION DE CONSTRUCTION	PROCEEDING FOR FUND LEATERS UP THE SECTION MELLOR CITYLE CONTINUES ON CLASCES & AND 3 PIPOTOS, SECTION 111, DIVISION 1 (CE. 392).	HITCHIEVIETICE FROM THE PROPERTY OF CITY OF CI	EMPTINESTED OF SPREAD SECONDS (19 CONTOUR STREET) STREET, STRE	CENTRICATION MED TORNIN TONTON SERVICE, SECTION 111, DIVISION 1 SPECIAL SECTION 111, DIVISION	CONTINUED RESIGN NELON SHOWNERS, SECONDS, SECOND	MODITIONAL MATERIALS FOR SACTION TO LANGUAGE SUPPLY AMERICAN STORY TO THE BILLIAN STORY TO THE BILLIAN SECTION SEC	RETERNATE THREAD FORMS, SCHIES AND FILE FOR CONTINUE HE SERVICE IN THE PROPERTY OF THE PROPERT	IDENTIFICATION OF MOTERINGS FOR COMMENT SECONTS, SECTION 111, U.V. STON 1 146C: C.K.3 NS -450 O'M (I N-30)
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# ATTACHMENT IT

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Number: DAP-1

Title: PREPARATION AND REVIEW OF CRITERIA LISTS

Revision: 3

#### 1.0 PURPOSE

This procedure establishes the methods for preparation, review, approval, and control of criteria lists used in the Design Adequacy Program. It defines the methods by which design criteria and commitments are identified and verified prior to use in subsequent phases of the Design Adequacy Program.

#### 2.0 SCOPE

The scope of this procedure encompasses preparation, review, approval, and control of design criteria lists used in the conduct of the self-initiated aspects of the Design Adequacy Program. The scope of the self-initiated evaluations includes the Mechanical Systems, Electrical, I&C, and Civil/Structural disciplines. Verification activities in the Piping and Supports discipline and in the Cable Tray and Conduit Supports area may use this procedure or a specific Discipline Instruction developed in accordance with DAP-10.

#### 3.0 DEFINITIONS AND RESPONSIBILITIES

## 3.1 Definitions

#### 3.1.1 Criterion

A criterion is any statement of a performance, design feature, or design requirement which a system, structure, or component must meet in order to be capable of performing its design function or to be in compliance with a project requirement or commitment.



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#### 3.1.2 Commitment

A commitment is any statement made by the project as part of the public record which identifies a system performance, design feature, or design requirement which will be met by the project.

#### 3.1.3 Descriptive Statement

A descriptive statement specifies or describes system parameters, CPSES plant features, operator actions, or intended plant operations which do not prescribe or affect how the system achieves its design function or complies with requirements.

#### 3.1.4 Source Document

A source document is any document applicable to CPSES that identifies criteria, commonment or equire ents. Principal source documents include FSAR, Regulatory Guides, Westinghouse interface documents, Code of Federal Regulations, and industry standards, such as IEEE and ASTM publications. Source documents are those documents from which statements of criteria and commitments are directly extracted in the compilation of criteria lists.

# 3.1.5 Originating Document

Originating documents are those in which statements are made which ultimately lead to the identification of a source document and criteria or commitments. For example, the FSAR serves as an originating document when it states that CPSES is in compliance with Regulatory Guide 1.XX. The Regulatory Guide is then the source document for the resulting commitments.

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#### 3.2 Responsibilities

#### 3.2.1 Review Team Leader

The Review Team Leader shall approve the initial issuance of the criteria lists and all subsequent revisions to the lists.

# 3.2.2 Design Adequacy Program Manager (DAP Manager)

The Design Adequacy Program Manager shall review the criteria lists to ensure consistency and completeness and recommend approval to the Review Team Leader.

#### 3.2.3 Discipline Coordinators

The Discipline Coordinators are responsible for assigning preparers and reviewers to evel the crit at .

#### 4.0 INSTRUCTION

# 4.1 Initial Preparation of Criteria List

In general, project personnel are responsible for the initial preparation of the design criteria lists; however, the DAP Manager may direct that initial lists be developed by third party personnel. The lists are to be a compilation of all criteria and commitments used in the CPSES design of the systems discussed in Section 2.0 of this procedure.

The DAP Manager and the Discipline Coordinators shall determine the number and scope of each criteria list.

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The development of the criteria lists shall be accomplished by review of the list against the CPSES FSAR and Safety Evaluation Report, 10CFR50, Appendix A General Design Criteria, appropriate project correspondence, and applicable Regulatory Guides and industry standards.

The criteria and commitments shall be listed in the format given in Attachment A to this procedure. The following additional requirements apply to this attachment:

- Each criteria list shall be assigned a document control number.
- o The criteria are to be sequentially numbered in each list.
- The description shall be a concise statement of the criterion. Where possible, the criterion should be a verbatim statement from the particular source document (e.g., a verbatim statement extracted from an FSAR paragraph).
- All applicable sou se accuments for each criterion are to be listed. Multiple tier documents (e.g., an FSAR paragraph which, in turn, references a Regulatory Guide) should all be included.
- Each criterion shall be assigned a number corresponding to the appropriate design review topic. Listings of the review topics for each discipline are given in Attachments B, C, and D to this procedure.

Draft criteria lists and subsequent revised lists shall be issued to the Design Adequacy Program Manager for review.

4.2 Third Party Review of Criteria Lists

Upon receipt of the lists, the DAP Manager shall distribute the lists to the appropriate Discipline Coordinators who shall distribute them to the individual

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Title: PREPARATION AND REVIEW OF

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Revision: 3

discipline reviewers. The DAP Manager shall determine which Coordinator shall have primary review responsibility. When a list is developed by the third party, the criteria list shall be provided to the project for comment.

The lists shall be reviewed for completeness, consistency, and accuracy. The objectives of the review include:

- A determination of whether all criteria have been identified (completeness).
- A determination of whether the criteria are accurately stated.
- An evaluation of whether the stated criteria are consistent.

This review shall be conducted in accordance with Section 4.1 of DAP.4 and shall be documented in a form similar to Attachment A to that DAP procedure.

omm its concite his showeresolved among the developer of the criteria list, the reviewer, and the Discipline Coordinator.

## 4.3 Approval and Issuance of Criteria Lists

Each criteria list may be issued as "Rev. 0" when the discipline coordinator believes that the criteria list contains all applicable basic (e.g., FSAR level) criteria and is complete enough to warrant development of detailed checklists. This approval (Rev. 0) does not require completion of the Design Criteria Review Checklist (Attachment A to DAP-4). Subsequent revisions of criteria lists shall require completion of the DAP-4 criteria review checklist before the subsequent revision is approved.

The criteria lists shall be reviewed by the Review Team Leader or his designee and shall be documented on the design criteria cover sheet (see Attachment E).

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His signature signifies that the criteria have been properly identified and checked, and that the requirements of this procedure were met. Distribution of the criteria lists shall be as stated in Section 5.0 of this procedure.

The cover sheet will be used for maintaining document revision control.

The cover sheet revision block signoff for Rev. 0 and all subsequent revisions, shall be as follows:

- The originator or lead discipline preparer shall initial the "BY" block.
- The appropriate Discipline Coordinator or designee shall initia! the reviewed "RVWD" block.
- The Design Adequacy Manager shall sign the recommend approval "RECC" block.
- The Review Team Leader shall sign the approved "APPD" block.

After approval, each mechanical, electrical, and I&C criteria list shall be submitted to Westinghouse Electric Corporation for review and comment. The submittal to Westinghouse shall be accomplished by the DAP Manager by transmittal of the criteria list to TUGCO.

Westinghouse shall be requested to review the criteria and commitments and make one of the following determinations:

- The criteria and commitments affect only systems that do not interface with the Westinghouse NSSS scope of supply.
- The criteria and commitments affect systems that interface with the Westinghouse NSSS scope of supply. The criteria and commitments are consistent with Westinghouse interface requirements and Westinghouse has no comments.

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The criteria and commitments affect systems that interface with the Westinghouse NSSS scope of supply. The criteria and commitments are consistent with Westinghouse interface requirements but Westinghouse has comments or clarifications regarding the criteria and commitments.

The criteria and commitments affect systems that interface with the Westinghouse NSSS scope of supply. The criteria and commitments are not consistent with Westinghouse interface requirements.

Where Westinghouse has comments or where Westinghouse notes inconsistencies with interface requirements, Westinghouse shall be requested to describe their comments or corrections in detail. The Discipline Coordinator or his designee shall resolve Westinghouse comments in a timely fashion.

## 4.4 Revisions to Criterio Lists

Revision to the criteria lists may be necessary, subsequent to the initial approval dissuance of the second may be for the purpose of adding or deleting criteria, revising existing criteria, or making corrections.

Revisions to the criteria lists shall be identified by documenting a description of the changes on the design criteria list cover sheet (Attachment E). Each revision shall be sequentially numbered. The approved revision will be distributed as stated in Section 5.0 of this procedure. The approval signoff process for each revision will be identical to that for the Rev. 0 criteria list issuance discussed in Section 4.3

The specific revisions shall be indicated in the body of the list by a vertical line in the right-hand margin. These revision lines shall be carried only until the following revision to the list is issued.

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Revision: 3

#### 5.0 DOCUMENTATION

The criteria lists shall be written, issued, and maintained in the format given in Attachment A to this procedure.

Criteria list revisions shall be controlled by the use of a cover sheet in the format given in Attachment E to this procedure.

Distribution for initial issuance, and all subsequent revisions to the criteria lists, will be the responsibility of the DAP Manager. The distribution will include, but not be limited to:

- o Review Team Leader
- o DAP Monoger
- o CPRTS or Fevi v Tr im Leaders
- Discipline Coordinators
- Additional personnel as selected by the DAP Manager.

After approval, each criteric list shall be assigned a control identification number by the appropriate Discipline Coordinator. The control number shall be of the following format:

# ATTACHMENT A CRITERIA LIST FORMAT

Criterion No.

Description

Source Applicable Review Topic

## ATTACHMENT B

# MECHANICAL REVIEW TOPICS

-	TOPIC NUMBER	TOPIC TITLE
	M00	Mechanical Same Validation
	MOI	Mechanical Scope Validation
	M02.1	System Operating Modes
	M02.2	Operating Limits: APSH
		Operating Limits: Maximum & Minimum Con- ditions
	M02.3	Operating Limits: Overpressure Conditions
	M02.4	Operating Limits: Steam Flow Requirements
	M03	Heat Removal Requirements
	M04	Water Sources
	M05.1	
		Component Functional Requirements: Pumps and Drivers
	M05.2	Component Functional Requirements: Valves and Operators
	M05.3	Component Function 1 D
	M05.4	Component Functional Requirements: Tanks
	M06	Component runctional Requirements: Pining
	M07	Single Failure/FMEA
		5 opport Systems
	M08	ss 5 Piping
	M09	C System Performance
	M10.1	Component Functional Requirements: Ventila- tion Filtration Units
	M10.2	Component Francisco I D
	M10.3	Component Functional Requirements: Fans Component Functional Requirements: Control
		Dompers
	M10.4	Component Functional Requirements: Air Con- ditioners
*;	M10.5	Component Functional Requirements: Cooling
	M10.6	Colls
		Component Functional Requirements: Water Chillers
	M10.7	Component Functional Requirements: Ducts
		and Duct Accessories
	MII	Control Room Habitability
	MI2	Pressure Vessels
	MI3	Heat Exchangers
	M14	
		Main Steam Isolation, Feedwater Isolation,
	MI5	Containment Purge
	M16	Safety Valve
		Relief Valve
	M17	Screens
	MIB	Chemical Eductors



# ATTACHMENT B

# MECHANICAL REVIEW TOPICS (Continued)

TOPIC NUMBER	TOPIC TITLE
M19 M20 M26 M27 M28 M29.1 M29.2 M30 M31 M32 M33 M34 M35 M36 M36 M36 M43 M44 M45 M46 M47	Expansion Joint Mechanical Penetrations System/Component Safety Classification High Energy Line Breaks Internal Flooding Missile Protection: Internal and Turbine Missiles Missile Protection: Tornado Missiles Seismic Qualification Radiation Protection and Dose Assessment Post-Accident Combustible Gas Control Containment Pressure/Temperature Analysis Containment Sump Design Welding Design Postulated Hazards Radiation Monitoring Post Accident Sump Chemistry External Flooding Balance of Plant Pump and Valve Operability Miscellaneous Thermal/Hydraulics Mechanical Erection Piping Supports Containment Spray Nozzles
M48	Radioactive Waste Filter Cask



# ATTACHMENT C ELECTRICAL REVIEW TOPICS

Topic Number	Topic Description
EI	System Operating Limits
E2	System Operating Modes
E3	Electrical Characteristics
E4	Electrical Load Capacity
E5	Load Shedding, Transfers, and Sequencing
E6	Control
E7	Instrumentation
E8	Component Functional Requirements
E9	Single Failure/FMEA
E10	Support Systems
EII	Mul+i-Discipline Considerations
E12	Eq. pmer. Installation Design
E13	Emergency Lighting
E14	Hydrogen Monitoring



## ATTACHMENT D

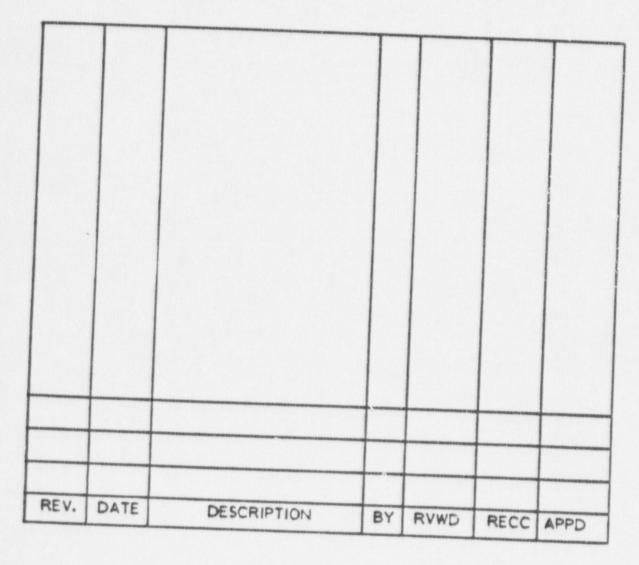
# CIVIL REVIEW TOPICS

TOPIC NUMBER	TOPIC DESCRIPTION
C1.0	LOAD DETERMINATION
C2.0	LOAD DISTRIBUTION/ANALYSIS
C3.0	LOAD COMBINATIONS
C4.0	CONCRETE DESIGN METHOD AND CRITERIA
C5.0	STEEL DESIGN METHODS AND CRITERIA
C6.0	FOUNDATION DESIGN METHODS AND CRITERIA
C7.0	SOIL
C8.0	SUPPORTS/ANCHORAGE DESIGN METHODS AND CRITERIA
C9.0	OTHER STRUCTURES DESIGN METHODS
C10.0	AND CRITERIA
C10.0	CONNECTIONS/ANCHORAGE DESIGN
C11.0	METHODS AND CRITERIA
C12.0	HEAVY LOADS DROP
	COMPUTER CODES
C13.0	SPE CIFICATION PREPARATION
C14.0	TESTING/SPECIAL STUDIES/SPECIAL TOPICS



# ATTACHMENT E DESIGN CRITERIA LIST

SYSTEM/DESIGN ACTIVITY	
DISCIPLINE	
DAP/DOC NUMBER	discontinuos, teams crystanessa sunta s





#### ATTACHMENT F

# COMANCHE PEAK DESIGN ADEQUACY PROGRAM

#### DISCIPLINE/SUBJECT CODES

Code	Discipline
C/S	Civil/Structural
P	Piping and Supports
M	Mechanical
EIC	Electrical/Instrumentation
PGI	Programmatic/Generic Implications
F	Electrical*
1	Instrumentation*

\*NOTE Use of "E" and "I" codes are optional alternatives to the "EIC" code. EIC may be used for both Electrical and I&C. "E" may be used when the document is relevant only to the electrical discipline. "I" may be used when the document is relevant only to Instrumentation and Control.



# ATTACHMENT I

TITLE		nov or c	HECKLISTS			
NUMBER	DAP-4					
Revision 0	Prepared M. Brooks	Date 9/9/85	Reviewed	Date 9/1/85	Approved	Date 10/4/8
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Number: DAP-4 Title: PREPARATION OF CHECKLISTS

Revision: 4

#### 1.0 PURPOSE

This procedure specifies the requirements for preparation of design document review checklists to be used in the performance of the CPSES Design Adequacy Program (DAP).

#### 2.0 SCOPE

This procedure applies whenever a design document review checklist is required by a Discipline Specific Action Plan, a DAP procedure, or through a Discipline Instruction issued by the Review Team Leader, Design Adequacy Program Manager, or Discipline Coordinator.

# 3.0 DEFINITIONS AND RESPONSIBILITIES

# 3.1 Definitions

#### 3.1.1 Criterion

A criterion is any statement of a performance, design feature, or design requirement which a system, structure, or component must meet in order to be capable of performing its design function or to be in compliance with a project requirement or commitment.

#### 3.1.2 Commitment

A commitment is any statement made by the project as part of the public record which identifies a system performance requirement, design feature, or design requirement which will be met by the project.

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### 3.1.3 Implementing Document

Implementing documents are design documents (such as calculations, evaluations, and analyses) that translate design criteria into design output documents.

#### 3.1.4 Output Document

Output documents are design documents (such as drawings and specifications) that define technical requirements of systems, structures, and components.

## 3.2 Responsibilities

# 3.2.1 Checklist Developer

Checklists shall be developed by personnel assigned by the Discipline Coordinator. The Discipline Coordinator may also be a checklist developer.

# 3.2.2 Discipline Coordinator

The Discipline Coordinator shall assign personnel to develop checklists. He shall define the purpose and scope of each checklist. This definition may be in the form of verbal direction to checklist developers.

### 4.0 INSTRUCTION

# 4.1 Evaluation Design Criteria and Review Topics

Checklists will be prepared to ensure a consistent and complete review of design criseria for the various review topic areas. Design Criteria Review Checklists shall be prepared using the format of Attachment A for each design discipline



Number: DAP-4 Title: PREPARATION OF CHECKLISTS

Revision: 4

review topic area to verify that the review topic criteria are complete, consistent, and adequately defined. Design Review Summary Checklists shall also be prepared using the format of Attachment B to summarize the verification of the implementation of the review topic criteria. Where appropriate, the Discipline Coordinator may allow more than one review area to be evaluated on a single checklist (Attachment A or B). The Discipline Coordinator may authorize alternatives to the format of Attachments A and B; however, the alternative format shall contain comparable information. The Discipline Coordinator shall maintain a log of checklists used in the format of Attachment G to this procedure. This log meets the requirements of DAP II and shall be filed in accordance with DAP 14.

## 4.2 Preparation of Checklists

Unless otherwise directed by the Discipline Coordinator, Design Criteria and Design Review Summary Checklists shall be prepared in accordance with the format of Attachments A and B for the various review topics. The Discipline Coordinator shall assign one or more individuals to the preparation and completion of the checklists. The Discipline Coordinator may develop checklists.

Design Review Evaluation Checklist forms are prepared as appropriate using the format of Attachments C-I and C-2. Attachment C-2 is the format for continuation pages. As used herein, Attachment C refers to both C-I and C-2. Alternate formats may be used provided they contain comparable information. The criteria/commitments (from the list developed in accordance with DAP-I) applicable to the scope of the checklist form are reviewed and selected for inclusion on the checklist. The checklist preparer may select fewer than 100 percent of the applicable criteria for inclusion in the Design Review Evaluation form(s) provided that the bases for such selection are documented in the Design Review Summary Checklist (Attachment B) form or in another appropriately referenced document. Where a criterion/commitment listed in the criteria/commitments list is itself a source of detailed criteria that is not



1





Number: DAP-4 Title: PREPARATION OF CHECKLISTS

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expanded upon in the Criteria List (DAP-1), the checklist should use the detailed criteria extracted from that source. The selected criteria/commitments (including more detailed criteria obtained from the source document) are entered in the "Attributes Reviewed" column of Attachment C.

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The "Description of Verification" column of Attachment C shall be completed to describe the method by which implementation of the criterion will be verified (e.g., line-by-line check of a calculation, comparison of selected calculation pages against selected drawings, etc.). If necessary, this column may be cross-referenced to an attachment that contains more information on the verification methodolgy. If the criterion entered in the "Attributes Reviewed" column does not represent adequate acceptance criteria for the review then the "Description of Verification" column should also be used to provide necessary acceptance critera detail.



Specific documents to be reviewed are selected in accordance with DAP-21. Where appropriate, development of the Design Review Evaluation form and the selection of specific documents may proceed in parallel if necessary to ensure the adequacy of the checklist form. In addition, the person preparing the Design Review Evaluation form should also give consideration to the following factors:

- Whether similar document types exist such that a combination of document types is needed to reach a conclusion about the adequacy of a portion of the design process (e.g., there may be eight types of mechanical calculations and selecting one of each type, as required above, may provide an adequate test of the calculation process such that no significant benefit is gained from testing multiple examples within each type)
- Whether the criteria that could be verified by additional examples of the document type can also be verified by other document types or through other means (e.g., by comparison with pre-operational test results).

Number: DAP-4 Title: PREPARATION OF CHECKLISTS Revision: 4

## 4.3 Additional Checklist Items

In addition to the specific checklist attributes extracted from the criteria/ commitments list, the checklist developer shall consider the items in Attachments D and E and shall incorporate them into the checklist as determined to be appropriate by the checklist developer and the Discipline Coordinator. In considering these items (which are defined in ANSI N45.2.11–1974, Section 6.3.1), the developer and Discipline Coordinator shall take into consideration that not all items are applicable to each document type, that other aspects of the review may adequately address these topics, and that the wording of the item may need to be clarified for use in the checklist.

# 4.4 Approval of Checklists Formats

Each Discipline Coordinator shall approve all checklist forms developed for his discipline. This approval requirement applies to Design Review Evaluation forms (whether in the format of Attachment C or in an alternative format), to checklist forms that are used as alternatives to Attachments A and B (Discipline Coordinator approval of Attachments A and B is not required), and to any other checklists developed for his discipline. The approval of the Discipline Coordinator to use a checklist form shall be in the form of a memo to appropriate personnel authorizing them to use the forms noted in the memo. Supplemental attributes added to a checklist form in accordance with Section 4.5 below shall not require Discipline Coordinator approval prior to completion of the checklist.

## 4.5 Use of Checklist

Other DAP procedures and discipline instructions govern the use of checklist forms developed in accordance with this procedure. Prior to using any checklist form to conduct a review in accordance with a procedure governing its use, the person intending to use the checklist form shall assure himself or herself that the

14



Number: DAP-4 Title:

Title: PREPARATION OF CHECKLISTS

Revision: 4

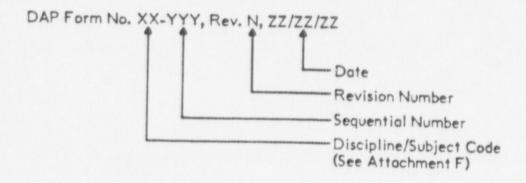
checklist form is adequate for its intended purpose. In particular, the user shall consider whether any item on Attachments D and E should be added to the checklist form. Furthermore, the reviewer may add any additional attributes that he or she feels is necessary to ensure the adequacy of a design review evaluation form (Attachment C or equivalent). Such additional attributes or other checklist form supplements may be added without prior Discipline Coordinator approval. Discipline Coordinator approval is achieved when the completed checklist is approved.

## 5.0 DOCUMENTATION

# 5.1 Identification Of Checklist Forms

Design review evaluation checklist forms (i.e., checklist forms similar to the format of Attachment C that contain the review attributes, but which have not been used for a review) shall be given a checklist form number, revision number, and date. The checklist form number shall be placed in the lower right hand corner of each page of the form if Attachment C is used; otherwise the checklist form number may be placed where it is deemed appropriate by the Discipline Coordinator. The initial version of each form is designated "Rev. 0".

The format of the checklist identification shall be:



Number: DAP-4

Title: PREPARATION OF CHECKLISTS

Revision: 4

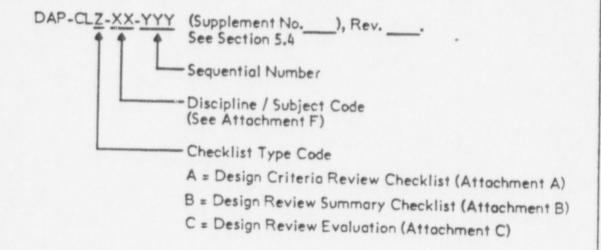
This numbering requirement for checklist forms is retroactive and shall be applied to all checklist forms. The Discipline Coordinator shall maintain a log of checklist forms (See Attachment G).

# 5.2 Revision of Checklist Forms

The Discipline Coordinator may direct that checklist forms be revised at anytime. Unless specifically directed by the Discipline Coordinator, the revision of a checklist form shall not invalidate any checklist completed using a previous revision of a checklist form. The appropriate revision number and date shall be entered onto the forms. The sections of the form affected by the revision shall be marked with a vertical line and revision number in either the left or right hand margin of the form. Supplemental attributes entered into a checklist by a reviewer in accordance with Section 4.5 of this procedure shall not be considered revisions to the checklist form.

### 5.3 Checklist Identification

After approval of a completed checklist has been obtained in accordance with the DAP governing its use, the checklist shall be assigned a control identification number by the Discipline Coordinator. The identification number shall be of the following format:



4

4

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Page 7 of 8

Number: DAP-4 Title: PREPARATION OF CHECKLISTS

Revision: 4

The Discipline Coordinator shall enter all checklists used in the discipline for which he is responsible in a Checklist Log (Attachment G).

# 5.4 Revisions and Supplements to Completed Checklists

Supplements to completed checklists shall be used to document any changes in findings based on the review of additional information including the review of later revisions to the documents being evaluated. Supplements shall use the same checklist forms originally used. They shall be completed in the same manner as the original checklists. However, only those attributes required to achieve the objectives of the supplementary review shall be completed and all others will be marked MNCM. Upon approval, the checklist number assigned will be the same as the original checklist number with the additional indication of a supplement number. Supplement numbers will be assigned in sequential order beginning with 1. Supplements shall be entered in the Checklist Log as a separate line entry by the Discipline Coordinator.

Approved completed checklists and/or supplements may be changed by means of a Revision to correct errors associated with DAP implementation of the checklists or to provide additional information required by DAP procedures. Examples include the correction or addition of criteria numbers, HDA numbers, DIR numbers, misspellings and/or omissions. Revisions shall not be used to change any findings of the original review or to modify the context of the original review to reflect the review of later revisions to the documents being evaluated. A revision package shall include all of the same material contained in the original checklist package or supplement and shall be approved using the Design Review Evaluation Revision Cover Sheet (Attachment H). Revisions shall be initiated and checked by reviewers and approved by the Discipline Coordinator. The Discipline Coordinator may also sign as either the initiator or the checker. For checklists completed prior to 9/15/86, cover sheets shall be applied to the checklists if a revision or supplement becomes applicable. Previous "Rev. O" checklists do not require a backfit. The original issue of completed checklists and/or supplements shall be noted as Rev. 0 with subsequent revisions assigned in sequential order beginning with 1.

4

### ATTACHMENT A

## COMANCHE PEAK DESIGN CRITERIA REVIEW CHECKLIST

DSAP	CHECKLIST NUMBER
CRITERIA LIST NUMBER/REV	
Review Topic Number(s)/Title(s)	
List the Design Criteria Sources:	
General Design Criteria	
SANCHER SEGMENTAL WAY AND RESERVED THE SECRETARY OF THE SECRETARY SERVED AS A SECRETARY SECRETAR	
Regulatory Guide(s)	
List Criteria Which Are Being Rev	iewed:
	Criteria No.

TN-85-6262/4 Attachment A

A	e the Design Criteria for this Design Topic Complete?
lf	"no," describe the missing design inputs.
-	
-	
NOTICE AND ADDRESS OF THE PARTY	
Ar	e the Identified Design Criteria for this Design Topic Consistent?
f	'no," describe the inconsistencies.
annual to the same of the same	
NEW AND	. *
and the same	
- Allendon	
NON-DEATH OF	
re	the Design Criteria Adequately Defined to the Level of Detail Necessary to:
	Allow the design activity to be carried out in a correct manner? Yes No
	Provide a basis for making design decisions and evaluating design changes?  Yes No
	Provide a basis for accomplishing design verification? Yes No
ar	ay of the above are answered "no" describe the lack of detail

Summarize Results of the Re	view.		
-			
The state of the s			
eviewer	Date		-
iscipline Coordinator	Date	-	

### ATTACHMENT B

### COMANCHE PEAK DESIGN REVIEW SUMMARY CHECKLIST

ocuments Reviewed:				
Document Name	Number	Rev	Date	Safety-Related Yes No
THE PARTY OF THE P	CONTROL OF PRINCIPAL PRINC	-	Milana, and a second	-
	Contraction	***********	STREET, ALLEY	
escription of Review Sco	ope and Purpose.			
escription of Review Sco	ope and Purpose.			

		NOT ASSESSMENT AND ADDRESS OF THE PARTY OF T
Assumptions Listed for Each Document?		
	Yes	No_
Are the Assumptions Reasonable and Valid?	Yes	No_
Are the Assumptions Consistent with Design Criteria/Implementing Documents?	Yes	No _
lave all Assumptions which Require		
/erification Been Verified?	Yes	No
Comments on Assumptions (Discuss Each "No" Answer A	bove)	
Answer A	(DOVE)	
		THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.
	THE RESIDENCE OF STREET, STREE	

			MINISTER MANAGEMENT CONTRACTOR
ere Changes from Specified Design Criteria Identified, as we hange?	ell as ti	he Reason	s for the
as an Appropriate Design Method Used?	and the same of th		
xplain:			

List Computer Programs Used. Verified Program Reference Yes/No Are the Computer Outputs Reasonable Compared to Inputs? Explain

TN-85-6262/4 Attachment B

B-4

Summarize Results of the Review.		
		Contraction of the Contraction o
Discrepancies Identified (if applicable) (Ref.	erence DAPTS DIR Number)	
Discrepancies Identified (if applicable) (Ref.	erence DAPTS DIR Number)	
Discrepancies Identified (if applicable) (Ref.	erence DAPTS DIR Number)	
Discrepancies Identified (if applicable) (Ref.	erence DAPTS DIR Number)	
Discrepancies Identified (if applicable) (Ref.	erence DAPTS DIR Number)	
Discrepancies Identified (if applicable) (Ref.	erence DAPTS DIR Number)	

TN-85-6262/4 Attachment B

# DESIGN REVIEW LUATION

CHECKLIST NUMBER		(Supplement No. ), Rev.			<
	Sheet I of				9
Reviewer	Date				
Criterio Numbere		Approval	Date		
CHICA OF WHILE S	General Description	cription			
Primary References					
Attributes Reviewed	Reference (Document, Page)	Description of Verification	Sat/Unsat/ NC/NA	Comments	
	DAP Form		Rev		

# DESIGN REVIE ALUATION

		Comments								
		Sat/Ursat/ NC/NA								, Rev.
(Supplement No. ), Rev.		Description of Verification								
	Sheet of	Reference (Document, Page)								DAP Form
CHECKLIST NUMBER		Attributes Reviewed								

### ATTACHMENT D

### ADDITIONAL CHECKLIST CONSIDERATIONS

- Were the inputs correctly selected and incorporated into design?
- 2. Are assumptions necessary to perform the design activity adequately described and reasonable? Where necessary, are the assumptions identified for subsequent re-verifications when the detailed design activities are completed?
- 3. Are the appropriate quality and quality assurance requirements specified?
- 4. Are the applicable codes, standards, and regulatory requirements, including issue and addenda, properly identified and are their requirements for design met?
- 5. Have applicable construction and operating experience been considered?
- 6. Have the design interface requirements been satisfied?
- 7. Was an appropriate design method used?
- 8. Is the output reasonable compared to inputs?
- 9. Are the specified parts, equipment, and processes suitable for the required application?
- 10. Are the specified materials compatible with each other and the design environmental conditions to which the material will be exposed?
- 11. Have adequate maintenance features and requirements been specified?
- 12. Are accessibility and other design provisions adequate for performance of needed maintenance and repair?
- 13. Has adequate accessibility been provided to perform the in-service inspection expected to be required during the plant life?
- 14. Has the design properly considered radiation exposure to the public and plant personnel?
- Are the acceptance criteria incorporated in the design documents sufficient to allow verification that design requirements have been satisfactorily accomplished.
- 16. Have adequate pre-operational and subsequent periodic test requirements been appropriately specified?

### ATTACHMENT D

### (continued)

- 17. Are adequate handling, storage, cleaning, and shipping requirements specified?
- 18. Are adequate identification requirements specified?
- 19. Are requirements for record preparation review, approval, retention, etc., adequately specified?

### ATTACHMENT E

### QUALITY ASSURANCE CHECKLIST CONSIDERATIONS

- Are design analyses sufficiently detailed as to purpose method, assumptions, design input, references and units such that a person technically qualified in the subject can review and understand the analyses and verify the adequacy of the results without recourse to the originator?
- o Was a design review performed and documented?
- Was the extent of design verification or review commensurate with the importance of the design to safety, its complexity, degree of standardization, relation to the state-of-the-art, and similarity with the previously proven designs?
- o Do appropriate design documents have review and approval signatures?
- Were changes in designs (including field changes) justified? Were they subjected to design control measures (such as review and approval) commensurate with these applied to the original design?
- o Are the Design Criteria defined to the level of detail necessary:
  - To allow the design activity to be carried out in a correct manner?
  - To provide a basis for making design decisions and evaluating design changes?
  - 3. To provide a basis for accomplishing design verification?
- o Are assumptions listed?
- o Are assumptions reasonable and valid?
- o Are there assumptions which conflict with Design Criteria Implementing Documents?
- b Have assumptions which require verification been verified?

### ATTACHMENT F

# COMANCHE PEAK DESIGN ADEQUACY PROGRAM

### DISCIPLINE/SUBJECT CODES

Code	Discipline
C/S	Civil/Structural
P	Piping and Supports
M	Mechanical
EIC	Electrical/Instrumentation
PGI	Programmatic/Generic Implications
E	Electrical*
1 -	Instrumentation*

"NOTE: Use of "E" and "I" codes are optional alternatives to the "EIC" code. EIC may be used for both Electrical and I&C. "E" may be used when the document is relevant only to the electrical discipline. "I" may be used when the document is relevant only to Instrumentation and Control.

				9						T	T		T	T	T	T
4-9				S		1	1						-	+	-	+
DAP-4			ATE	4	T	+		1	+		-	-	-	+	+	+
			REVISION DATE	3	T	T					+	+		+		+
			REVIS	2		1	+	1	1	+	+	+			+	1
	RAM			-		+	T	+	+	+	+	+	+	+	+	+
	PROG			0					+	+	+	+	+	+		+
	COMMANCHE PEAK DESIGN ADEGUACY PROGRAM	T00	105-784K-164-164-164	CONTROL ID. NO. BY TITLE												

# ATTACHMENT H

Checklist Number	Supplement No.	, Rev	_
Description of Revision:			
ioted by:	Date:	THE RESIDENCE AND ASSESSMENT ASSE	

TN-85-6262/4

# TERA

TO:

Discipline Coordinators

DATE:

February 9, 1987

FROM:

Frank Dougherty

COPIES TO:

SUBJECT:

Type "B" Checklists

Q. DuBois

B. Stahl

T. Smyder

J. Miller

File 7.7

Recent DAP audits have pointed out the need for some additional guidance in the preparation of Type "B" checklists. According to the information presented in the most recent audit exit meeting no observations or CARs are needed for these items, but I committed to communicating to you some suggestions so that we avoid potential problems.

### Reference to Criteria Lists

Although not specifically required by procedure, reference to the criteria lists (not just criteria numbers) associated with the "B" checklist will help to provide a linkage among cur documentation. To the extent possible please include an indication in your "B" checklists of the criteria list(s) that are applicable.

### Subtopics

Some "B" checklists are being prepared at a subtopic level. DAP 4 requires a topic level "B" checklist. This memo is a reminder that there must be a "B" checklist for each topic listed in DAP 1.

### Revisions

"B" checklists, like "A" checklists and the original intent for "C" checklists, are not to be revised. The checklists should represent the status of your review at the time. If new information is obtained, a new "B" checklist should be prepared. Such a later checklist should checklists were propared). If you find an error in a completed, approved "B" checklist, you should issue a new checklist and instruct Kate to void the old one.

### Complete Coverage of Criteria

DAP 4, Paragraph 4.2, requires justification to be provided on the appropriate "B" checklist if fewer than 100% of applicable criteria are included on a "C" checklist form. The "B" checklist should include or reference the basis for any such cases. If the "master matrix" is going to be used as a basis for fewer criteria, an appropriate reference (e.g. to a special engineering evaluation) should be provided. For

example, one may state, "Fewer than 100% of the applicable criteria for this topic were selected for inclusion on individual checklist forms because multiple checklist forms are applicable to this topic. Complete coverage of the criteria applicable to this topic will be demonstrated in engineering evaluation \_\_\_." Although not required by the procedure, it would be a good idea to state "all applicable criteria were selected" when this is true.

FAD: seg 38FDM07

Procedure: DAP-4

Revision: 4 Addendum: 1

Title: COMPLETION OF TYPE "C" CHECKLIST SUPPLEMENTS

### PURPOSE

This addendum allows Type "C" checklist supplements to include only those pages of a Type "C" checklist containing attributes affected during the supplement process.

### SCOPE

Add to Section 5.4, paragraph 1, after sentence 4 (p. 8), the following:

Alternatively, the supplement may consist of only those pages which contain attributes whose status is affected by the supplement preparation process. In such cases, attributes on the affected checklist pages that are not changed by the supplement shall be marked "NC." The checklist supplement shall be clearly identified on the checklist cover sheet including a listing of the affected pages.

### INSTRUCTION

This addendum is retroactive to September 12, 1986, and shall remain in effect until approval of the next revision of DAP-4. This addendum shall be securely attached to each controlled copy of DAP-4.

Frepared By:

Date:

2/4/87

Reviewed By:

Date:

2/5/87

Approved By:

Date .

2/6/87

TN-85-6262/14/DAPA

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TITLE

# ATTACHMENT <u>VI</u> REVIEW OF CALCULATIONS, EVALUATIONS AND OTHER IMPLEMENTING DOCUMENTS

NUMBER	DAP-5		_			
Revision 0	Prepared W. Arranghant for W. Hendrin	Dote 8/30/15	Reviewed	Date 9/13/85	Approved Historia	<u>Date</u> 10/4/85
1	Oledy Chat	16/86	Thought	1/8/82	HALIM	1/15/86
. 2	Jin Breton -	6/20/86	Thoughety	1/3/82	Frankety	6/23/82
3	The Ander	9/10/86	Farly	9/10/82	4 Am	9/12/86
		\			-	

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2.0	SCOPE	1	
3.0	DEFINITIONS AND RESPONSIBILITIES	1	
4.0	INSTRUCTION	3	1.
5.0	DOCUMENTATION	7	3

Number: DAP-5

Title: REVIEW OF CALCULATIONS, EVALUATIONS AND OTHER IMPLEMENTING DOCUMENTS

Revision: 3

### 1.0 PURPOSE

This procedure defines the methods for the review of calculations, evaluations, and other implementing documents.

### 2.0 SCOPE

This procedure applies to Review of Implementing Design Documents such as calculations and evaluations used in the design of the systems addressed by the Design Adequacy Program

Implementing documents will be reviewed against the appropriate design criteria. Calculations and evaluations will be reviewed for the adequacy of the applied methodology as well as accuracy of the implementation of the methodology.

This procedure does not address the review of output documents (drawings and specifications). The review of output documents is addressed in DAP-6.

### 3.0 DEFINITIONS AND RESPONSIBILITIES

### 3.1 Definitions

### 3.1.1 Implementing Documents

The documents which provide for implementation of the design criteria such as Flow Diagrams and Instrument Control Diagrams.

### 3.1.2 Criterion

A criterion is any statement of a performance, design feature, or design requirement which a system, structure, or component must meet in order to be TN-85-6262/5

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Number: DAP-5

Title: REVIEW OF CALCULATIONS, EVALUATIONS AND OTHER IMPLEMENTING DOCUMENTS

Revision: 3

capable of performing its design function or to be in compliance with a project requirement or commitment.

### 3.2 Responsibilities

### 3.2.1 Discipline Coordinator

The Discipline Coordinator is responsible for selecting the type and number of implementing documents, calculations, and evaluations in each area to be reviewed. The Discipline Coordinator is responsible for assigning Reviewers.

### 3.2.2 Reviewer

The Reviewer is responsible for completing reviews of assigned review topics in accordance with this procedure, using appropriate checklists, ensuring that the check is accurate, and and checking that work done under his (or her) direction is correct.

### 3.2.3 Assigned Personnel

Assigned personnel perform verification activities under the direction of the Reviewer.

### 3.2.4 Checker

Checkers are responsible for verifying the accuracy of the Reviewers or Assigned Personnel's work.

TN-85-6262/5

Number: DAP-5

Title: REVIEW OF CALCULATIONS, EVALUATIONS AND OTHER IMPLEMENTING DOCUMENTS

Revision: 3

### 4.0 INSTRUCTION

### 4.1 Identification of Reviewer

For each review topic listed in the description of the DAP self-initiated evaluation contained in the CPRT Program Plan, the appropriate Discipline Coordinator shall select an individual who shall function as the Reviewer for that topic and shall be responsible for the completion of the checklists associated with that topic (i.e., the Design Review Summary and Design Review Evaluation described in DAP 4 as Attachments B and C respectively or alternative checklists developed in accordance with DAP 4). The identified Reviewer shall meet the qualification requirements of DAP-15. The Discipline Coordinator may act as the Reviewer, provided that he meets the qualification requirements of DAP-15. Assigned personnel working under the direction of a Reviewer shall have been trained in this procedure and shall have received any technical training deemed appropriate by the Reviewer, but need not meet the qualification requirements applicable to the Reviewer. If the Reviewer determines that such technical training is necessary, the requirement of the training, its scope, and its completion shall be documented.

# 4.2 Customization of Checklist Forms and Identification of Specific Documents For Review

The Reviewer shall review the Design Review Evaluation checklist forms applicable to the review topic that have been released for use by the Discipline Coordinator. The Reviewer shall determine whether the forms require supplementation or other modification as provided for in DAP-4 (including the supplementary review items contained in Attachments D and E of DAP-4). He may make whatever changes he deems appropriate to customize the checklist form for a particular review topic.

TN-85-6262/5

Number: DAP-5

Title: REVIEW OF CALCULATIONS, EVALUATIONS AND OTHER IMPLEMENTING DOCUMENTS

Revision: 3

For self-initiated review areas, documents shall be selected for review in accordance with DAP 21. Those specific items identified to be reviewed, shall be the latest revision of the applicable documents. If the applicable document revision has an approval date prior to April 1, 1985, it shall be used for review. Otherwise, the latest revision with an approval date prior to April 1, 1985 and all the following revisions shall be used as described in Section 4.4.

For overview of corrective action programs, the documents shall be the latest revision of the applicable document selected in accordance with DAP-20.

The Reviewer or Assigned Personnel under the direction of the Reviewer, shall enter the appropriate references for the selected documents in the "Reference" column of the checklist. The reference shall be sufficiently complete to allow another person to identify the specific portion of the document being reviewed. For example, the identification number and renewal pages of the calculation, as well as the calculation page revision number and date, should be used. The reference information may be entered into the checklist form in the course of the review.

### 4.3 Completion of Checklist

Each review of implementing documents shall be conducted by using the checklists developed in accordance with DAP-4 as customized in accordance with Section 4.2. The purpose of the review shall be to determine whether individual design documents appropriately comply with the applicable design criteria. The Reviewer or Assigned Personnel shall examine all items on the checklist and indicate whether each item was found to be satisfactory, unsatisfactory, not checked, or not applicable. "Not Checked" or "NC" may be used when a standard checklist form is used to perform a limited review of a given subject such that an applicable area was excluded from the review scope. "Not





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Applicable" or "NA" may be used when an item on a standard checklist form is not applicable to the subject being reviewed. Where the appropriate use of "NA" or "NC" would not be apparent to a qualified reviewer, the use of "NA" or "NC" on the checklist should be accompanied by an explanation in the "Comments" column or as an attachment to the checklist which provides the basis for use of "NA" or "NC". Although not required, it is recommended that a reference be provided to the checklist(s) where the items marked "NC" are reviewed. The Reviewer or Assigned Personnel shall also indicate the basis for determining the verification conclusion (e.g., visual inspection of document, field walkdown, calculation review, and independent calculation) and the acceptance criteria (e.g., agreement with alternate calculations within X%, agreement between documents X and Y, etc.) if not otherwise included in the checklist form.

For self-initiated review areas, completed checklists shall indicate the homogeneous design activity (HDA) number associated with each checklist item (attribute). This can be accomplished by indicating the HDA number in the "Comments" column or on an attachment that clearly establishes the correlation. This is not required for checklists used for overview of corrective action programs.

The "Comments" column may also be used for any other comments about an attribute, its implementation, or its verification.

### Current Document Revisions After March 31, 1985 4.4

This section only applies to self-initiated review scopes.

As noted above, special review considerations are applicable to documents for which the current revision of the document is dated later than March 31, 1985.

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Revision: 3

In such cases the following steps shall be completed by the Reviewer or Assigned Personnel:

- The last revision prior to April 1, 1985, shall be obtained.
- All revisions between the revision obtained in the previous step and the current revision shall be identified and obtained.
- The Reviewer or Assigned Personnel shall determine the 0 differences among the revisions and the causes for those revisions.
- A review shall be conducted using the current revision of 0 the document and the appropriate design review evaluation checklist completed.
- Appropriate design review evaluation checklists shall be completed to document the review against the review attributes of those aspects of the revision of the documents that were changed in the latest revision. The "Sat/Unsat/NA/NC" column shall be marked as appropriate. Items that are "Unsat" in the previous revisions shall be processed in accordance with 4.5 (below) in spite of any correction that may have been made in the current revision.

# 4.5 Processing Unsatisfactory Items

Items found to be unsatisfactory shall be noted on the checklist and shall also be separately compiled and processed in accordance with the procedures outlined in DAP-2. The DIR number assigned to each unsatisfactory item shall be listed in the "Comments" column, or as an attachment to the completed checklist with suitable traceability to each unsatisfactory item.

### 4.6 Approval

If the checklist is completed by Assigned Personnel, the "Comments" column

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shall be annotated with the name or initials of the person who performed the verification. The Reviewer shall assure himself of the adequacy of the completed checklist and sign the "Reviewer" space.

After a checklist is completed and signed by the Reviewer, the Discipline Coordinator shall designate a Checker.

The Checker shall verify the accuracy of the checklist by reviewing at least 10 percent of the checklist items or a minimum of 5 items. After all comments or questions are resolved with the Reviewer, the Checker shall sign the checklist in the "Checker" space and return it to the Discipline Coordinator. The checklist shall be approved by the Discipline Coordinator, who shall sign the "Approved By" line of the checklist sheet. If the Discipline Coordinator is also the Reviewer he shall sign both spaces.

### 5.0 DOCUMENTATION

Upon approval, checklist identification numbers are assigned in accordance with Section 5.3 of DAP-4. Each completed checklist shall be forwarded to the DAP Manager for filing in accordance with DAP-14.



# ATTACHMENT VIL

TITLE	REVIEW OF	F DRAWIN	GS, SPECIFICA CUMENTS	TIONS AND	OTHER	
NUMBER	DAP-6					
Revision  0	Prepared M. Brooks	Date 8/30/85	Beviewed Horhesty	Date 9/3/85	Approved History	Date 10/4/85
	Olidje Pahaton	1/6/86	孤城	1/8/2	+ A Sun	1/15/86
2	In Bustin	6/20/86	Thought	6/23/82	Thoughty	chi he
3	The	9/10/86	JAR JUS	-9/10/EZ	+/Alm	9/12/86
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5.0	DOCUMENTATION	

Number: DAP-6 Title: REVIEW OF DRAWINGS, SPECIFICATIONS Revision: 3
AND OTHER DESIGN OUTPUT DOCUMENTS

### 1.0 PURPOSE

This procedure defines the methods to be used in the Design Adequacy Program for the review of Design Output Documents (i.e., design drawings, specifications, and vendor documents and drawings).

### 2.0 SCOPE

This procedure applies to the review of the Output Design Documents used in the CPSES Design of the systems addressed by the Design Adequacy Program.

The Design Output Documents will be reviewed against the appropriate CPSES design criteria to ensure that the output documents address all necessary design criteria. Additional implementing documents are used to define attributes against which design output documents will be reviewed.

This procedure does not address the review of Design Implementing Documents. The review of implementing documents is addressed in DAP-5.

# 3.0 DEFINITIONS AND RESPONSIBILITIES

### 3.1 Definitions

### 3.1.1 Criterion

A criterion is any statement of a performance, design feature, or design requirement which a system, structure, or component must meet in order to be capable of performing its design function or to be in compliance with a project requirement or commitment.

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### 3.1.2 Output Document

Output documents are design documents (such as drawings and specifications) that define technical requirements of systems, structures, and components. Vendor documentation/drawings and any design documentation that is not otherwise classified as design input or implementing documents are included in this definition.

### 3.2 Responsibilities

### 3.2.1 Discipline Coordinator

The Discipline Coordinator is responsible for cting the type and number of output documents to be reviewed in each area. The Discipline Coordinator is responsible for assigning Reviewers.

### 3.2.2 Reviewer

The Reviewer is responsible for completing reviews of assigned review topics in accordance with this procedure, using appropriate checklists, ensuring that the check is accurate, and checking that work done under his (or her) direction is correct.

### 3.2.3 Assigned Personnel

Assigned personnel perform verification activities under the direction of the Reviewer.

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### 3.2.4 Checker

Checkers are responsible for verifying the accuracy of the Reviewers or Assigned Personnel's work,

### 4.0 INSTRUCTION

### 4.1 Identification of Reviewer

For each review topic listed in the description of the DAP self-initiated evaluation contained in the CPRT Program Plan, the appropriate Discipline Coordinator shall select an individual who shall function as the Reviewer for that topic and shall be responsible for the completion of the checklists associated with that topic (i.e., the Design Review Summary and Design Review Evaluation described in DAP 4 as Attachments B and C, respectively, or alternative checklists developed in accordance with DAP 4). The identified Reviewer shall meet the qualification requirements of DAP-15. The Discipline Coordinator may act as the Reviewer, provided that he meets the qualification requirements of DAP-15. Assigned personnel working under the direction of a Reviewer shall have been trained in this procedure and shall have received any technical training deemed appropriate by the Reviewer, but need not meet the qualification requirements applicable to the Reviewer. If the Reviewer determines that such technical training is necessary, the requirement of the training, its scope, and its completion shall be documented.

# 4.2 Customization of Checklist Forms and Identification of Specific Documents For Review

The Reviewer shall review the Design Review Evaluation checklist forms applicable to the review topic that have been released for use by the Discipline

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Coordinator. The Reviewer shall determine whether the forms require supplementation or other modification as provided for in DAP-4 (including the supplementary review items contained in Attachments D and E of DAP-4). He may make whatever changes he deems appropriate to customize the checklist form for a particular review topic.

For self-initiated review areas, documents shall be selected for review in accordance with DAP 21. Those specific items identified to be reviewed, shall be the latest revision of the applicable documents. If the applicable document revision has an approval date prior to April 1, 1985, it shall be used for review. Otherwise, the latest revision with an approval date prior to April 1, 1985, and all the following revisions shall be used as described in Section 4.4.

For overview of corrective action programs, the documents shall be the latest revision of the applicable document selected in accordance with DAP 20.

The Reviewer or Assigned Personnel under the direction of the Reviewer, shall enter the appropriate references for the selected documents in the "Reference" column of the checklist. The reference shall be sufficiently complete to allow another person to identify the specific portion of the document being reviewed. For example, the identification number reviewed and page of the calculation, as well as the revision number and date, should be used. The reference information may be entered into the checklist form in the course of the review.

### 4.3 Completion of Checklist

Each review of output documents shall be conducted by using the checklists developed in accordance with DAP-4 as customized in accordance with Section 4.2. The purpose of the review shall be to determine whether individual design

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documents appropriately comply with the applicable design criteria. Reviewer or Assigned Personnel shall examine all items on the checklist and indicate whether each item was found to be satisfactory, unsatisfactory, not checked, or not applicable. "Not Checked" or "NC" may be used when a standard checklist form is used to perform a limited review of a given subject such that an applicable area was excluded from the review scope. "Not Applicable" or "NA" may be used when an item on a standard checklist form is not applicable to the subject being reviewed. Where the appropriate use of "NA" or "NC" would not be apparent to a qualified reviewer, the use of "NA" or "NC" on the checklist should be accompanied by an explanation in the "Comments" column or by an attachment to the checklist which provides the basis for the use of "NA" or "NC". Although not required, it is recommended that a reference be provided to the checklist(s) where the items marked "NC" are reviewed. The Reviewer or Assigned Personnel shall also indicate the basis for determining the verification conclusion (e.g., visual inspection of document, field walkdown, calculation review, and independent calculation), and the acceptance criteria applicable to the attribute being evaluated, if not otherwise included in the checklist form.

For self-initiated review areas, completed checklists shall indicate the homogeneous design activity (HDA) number associated with each checklists item (attribute). This can be accomplished by indicating the HDA number in the "Comments" column or on an attachment the clearly establishes the correlation. This is not required for checklists used for overview of corrective action programs.

The "Comments" column may also be used for any other comments on the attribute, its implementation or its verification.

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# 4.4 Current Document Revisions After March 31, 1985

This section applies to self-initiated review scopes. As noted above, special review considerations are applicable to documents for which the current revision of the document is dated later than March 31, 1985. In such cases, the following steps shall be completed by the Reviewer or Assigned Personnel:

- o The last revision prior to April 1, 1985, shall be obtained.
- All revisions between the revision obtained in the previous step and the current revision shall be identified and obtained.
- The Reviewer or Assigned Personnel shall determine the differences among the revisions and the causes for those revisions.
- A review shall be conducted using the current revision of the document and the appropriate design review evaluation checklist completed.
- Appropriate design review evaluation checklists shall be completed to document the review against the review attributes of those aspects of the previous revisions of the document that were changed in the latest revision. The "Sat/Unsat/NA/NC" column shall be marked as appropriate. Items that are "Unsat" in the previous revisions shall be processed in accordance with 4.5 (below) in spite of any correction that may have been made in the current revision.

### 4.5 Processing of Unsatisfactory Items

Items found to be unsatisfactory shall be so noted on the checklist, and shall also be separately compiled and processed in accordance with the procedures outlined in DAP-2. The DIR number assigned to each unsatisfactory item shall be listed in the "Comments" column, or as an attachment to the completed checklist with suitable traceability to each unsatisfactory item.

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### 4.6 Approval

If the checklist is completed by Assigned Personnel, the "Comments" column shall be annotated with the name or initials of the person who performed the verification. The Reviewer shall assure himself of the adequacy of the completed checklist and sign the "Reviewer" space.

After a checklist is completed and signed by the Reviewer, the Discipline Coordinator shall designate a Checker.

The Checker shall verify the accuracy of the checklist by reviewing at least 10 percent of the checklist items or a minimum of 5 items. After all comments or questions are resolved with the Reviewer, the Checker shall sign the checklist in the "Checker" space and return to the Discipline Coordinator. The checklist shall be approved by the Discipline Coordinator, who shall sign the "Approved By" line of the checklist sheet. If the Discipline Coordinator is also the Reviewer, he shall sign both spaces.

### 5.0 DOCUMENTATION

Upon approval, checklist identification numbers are assigned in accordance with Section 5.3 of DAP-14. Each completed checklist shall be forwarded to the DAP Manager for filing in accordance with DAP-14.



# ATTACHMENT VIII

NUMBER Revision	DAP-20					
Revision						
0	Prepared T. Snyder	Date 3/11/86	Reviewed	Date shape	Approved Haran	Date 3/11/86
1	30 les	3/25/52	3 Bolts	3/25/82	Herm	3/21/86
2	FAD futy	4/0/2	FD-14	4/4/86	1/1/2	4/11/82
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THE CPSES PROJECT OR OTHER EXTERNAL

ORGANIZATIONS Revision: 3

1.0 PURPOSE

This procedure defines the extent to which the Design Adequacy Program (DAP) third-party personnel will overview implementation and corrective action activities that are performed by the Project (or other organizations under the direction of the Project). This procedure also specifies the methods to be used by DAP personnel in performing the overview function.

2.0 SCOPE

This procedure applies to all activities where DAP third-party personnel have the responsibility of overviewing significant design activities that are performed under the management and control of project organizations. In particular, this procedure applies to the situations where DAP overview is required by Appendix H to the CPRT Program Plan. Other examples of such activities include Stone and Webster Engineering Corporation's (SWEC) work on ASME piping and supports and Ebasco/Impell work on cable tray and conduit supports.

The overview activities that are performed by DAP personnel fall into one of the following three categories:

- In-process review of action plans and procedures; including implementation
- Final product review of final procedures; implementing calculations, and other final documents
- Review and follow-up of specific corrective actions required as a result of design-related deviations and deficiencies identified by DAP or QOC.





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3.0 DEFINITIONS AND RESPONSIBILITES

3.1 Definitions

3.1.1 In-Process Review

"In-Process Review" is defined as the review of any Project document or other design-related information that is in a draft or non-finalized state. This is any document or design-related information that has not been formally approved and issued by the Project including any interim use, draft or other documentation where restrictions specifically applicable to the use of the document (or portions thereof) are clearly stated. Direct observation of Project work activities (e.g., engineering walkdowns) by third-party personnel is included in this definition.

3.1.2 Final Product Review

"Final Product Review" is defined as the review of any document or designrelated information that has been finalized, approved, and issued by the Project for use without restrictions, including portions of interim use, draft, or other documentation where it is clear that those portions are approved for use without restrictions.

3.1.3 Corrective Action

For the purpose of this procedure, "Corrective Action" is defined as an action required to correct design-related deviations, deficiencies or adverse trends (as defined in the CPRT Program Plan) that are within the scope of the DAP review. Corrective Actions will be prescribed by the results of the Design Adequacy Program and will take the form of documentation or hardware modifications. Corrective Actions will be implemented by the Project and, to the extent

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necessary, followed by the DAP to ensure that corrective actions will prevent recurrence. One Corrective Action may be developed to resolve multiple DIRs (see DAP-2 and DAP-8).

3.1.4 Project

"Project" refers to TUGCO and other organizations under the direction of the TUGCO.

3.1.5 QOC

"QOC" refers to the third-party Quality of Construction Program.

3.1.6 Deviation, Deficiency, and Programmatic Deficiency

Refer to DAP 2 for definition of terms such as deviation, deficiency and programmatic deficiency.

3.2 Responsibilities

3.2.1 Review Team Leader

The Review Team Leader (RTL) is responsible for determining and approving the adequacy of corrective actions defined by the Project to resolve each DAP-identified or QOC-identified deviation, deficiency, or adverse trend having design significance. When permitted by this procedure, he may delegate this responsibility to the DAP Manager or the Construction Quality Interface Manager. The RTL may recommend corrective action to the Project subject to SRT approval when required by this procedure. He may permit the DAP Manager

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or the Construction Quality Interface Manager to make such recommendations to the Project when SRT approval is not required.

3.2.2 DAP Manager and Construction Quality Interface Manager

The DAP Manager and the Construction Quality Interface Manager determine the adequacy of corrective actions and make recommendations for corrective actions when delegated this responsibility by the Review Team Leader.

#### 3.2.3 Discipline Coordinators

Discipline Coordinators are responsible for approving the method of review for all overview activities within their discipline and ensuring that those reviews are conducted in accordance with this procedure. For specific corrective actions, the Discipline Coordinators are responsible for obtaining descriptions of the corrective actions from the Project and ensuring that corrective action evaluations are performed and documented in accordance with this procedure. They may delegate responsibility for performing the reviews to others.

#### 3.2.4 Reviewers

Assigned reviewers are responsible for performing reviews in accordance with this procedure, developing the appropriate documentation, and designating the appropriate file distribution for the documentation.



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#### 4.0 INSTRUCTION

#### Sources of Overview Requirements 4.1

Overview of Project activities by DAP personnel results from the following sources:

- CPRT commitments in the CPRT program plan to have third-party overview of specific project activities
- Project activities conducted to resolve external source issues
- Corrective action resulting from deviations, deficiencies and adverse trends having design significance that are identified by the DAP or QOC.

### 4.2 Review Methods

The review methods to be employed in DAP third-party overview activities are described in this section. For a particular overview activity, the appropriate Discipline Coordinator shall determine the applicability of the following subsections that describe these methods.

#### 4.2.1 In Process Review

In Process Reviews are optional and relatively informal overview activities. The In Process Review is designed to provide beneficial involvement of third-party expertise during the formulation or early implementation of project corrective

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action activities. Typical activities that are included in this review category are as follows:

- Review of draft action plans that define the scope and general approach of significant work activities to be performed by the Project.
- Review of draft procedures and instructions that are being formulated to define the precise methods of implementation and control of significant work activities to be performed by the Project.
- Review of draft technical documents and supporting in progress calculations, tests, etc., that are intended to define the resolution of specific technical issues.
- Review of in progress calculations or inspections during the early implementation phases of significant work activities.

In Process Reviews are initiated upon mutual agreement of the responsible Discipline Coordinator and the Project or the organization that is performing the work. This review can take the form of meetings or document reviews based on the desires of the requesting organization.

In Process Reviews are not performed to formalized checklists but shall assess conformance to the following basic acceptance criteria:

- Items reviewed are in compliance with CPSES licensing commitments.
- o Items reviewed are accurately presented and are in compliance with the criteria and intent of the DAP.
- Scopes are sufficiently defined to justify the desired conclusions.

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- Sampling approaches and methods, where utilized, are adequate to justify the desired conclusions.
- Methods are technically sound and conform to good engineering practice.
- Procedures are sufficiently detailed to achieve their intended purpose and are comprehensive in covering their intended scope.

The results of In Process Reviews will be documented in the form of written comments or summary descriptions of meeting discussions. This requirement becomes effective on the approval date of Rev. 0 of this procedure. Further details on documentation are described in Section 5.0 below.

#### 4.2.2 Final Product Review

Final Product Review is the formal overview activity of completed CPRT work products developed by the Project. This review shall be done by DAP third-party personnel using formalized checklists and/or engineering evaluations developed in accordance with Procedures DAP-4 and DAP-8. Implementing and output document reviews shall be performed following the DAP review procedures defined in Procedures DAP-5 and DAP-6, as appropriate.

The final products that shall be subjected to this review are as follows:

- All procedures that define the scope, methods and technical details of implementation.
- Selected implementing documents (e.g., calculations, designs) prepared in accordance with the above procedures. The bases for selection (i.e., number, type and method of selection) shall be documented by the appropriate Discipline Coordinator. As a minimum selection criterion, a sufficient number and variety of implementing documents shall be selected to assess the full breadth of the associated procedures.

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All documents related to the specific resolution of significant technical issues that are identified from external source issues or the internal conduct of the DAP.

The criteria to be applied in developing the formalized checklists and in performing the reviews are as follows:

- Compliance with CPSES licensing commitments
- Resolution of all external source issues and internally identified discrepancies
- Adequacy of the work performed in terms of technical methods and accuracy, control and interface.

Items found not to be in compliance with applicable criteria and commitments shall be indicated as "UNSAT" on checklists, and DIR forms shall be prepared in accordance with DAP 2.

### 4.3 Corrective Actions

### 4.3.1 Defining Corrective Actions

The Project is responsible for defining corrective action for deviations, deficiencies and adverse trends having design significance. The Discipline Coordinator responsible for the DIR (see DAP-2) that identifies a deviation, deficiency or adverse trend shall obtain from the Project a proposed corrective action for that DIR or multiple DIRs which are addressed by the same corrective action. The proposed corrective action description shall be obtained in writing with details adequate to allow a determination of whether the proposed corrective action is adequate to resolve the DIR. In the event that the Discipline Coordinator or other DAP personnel wish to propose a corrective action, the Discipline Coordinator shall cause the proposed corrective action to be documented in a comparable level of detail. In either case the proposed corrective action shall be evaluated in accordance with Section 4.3.2 of this procedure.

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4.3.2 Evaluation of Corrective Actions Definition

The appropriate Discipline Coordinator shall prepare or cause to be prepared a corrective action evaluation for each formally proposed corrective action (i.e., each written corrective action description as defined in Section 4.3.1 of this procedure). Where more than one proposed corrective action exists for a DIR, one evaluation may be used to cover multiple proposed actions. It is also acceptable to perform one evaluation for a proposed corrective action that addresses multiple DIR's. If an adverse trend is identified, the corrective action shall include those actions required to preclude recurrence of the problem. A Corrective Action Evaluation (CAE) cover sheet and form (Attachments A and B, respectively) shall be completed for each evaluation.

When an Issue Resolution Report (IRR) has been prepared, Section 5.0 (see DAP 8, Attachment E) of the IRR shull replace the Corrective Action Evaluation form (Attachment B).

The identification number assigned to each Corrective Action Evaluation shall consist of "DAP-CAE" plus the specific DIR number to which the proposed corrective action applies, or "DAP-CAE" plus the engineering evaluation Number for the IRR. This number shall be placed on both the cover sheet and the evaluation form.

The following guidance is provided for completing the form:

### 1.0 Description

The description of the deviation, deficiency or adverse trend shall be provided using the description contained in the DIR. The description shall also include a statement as to whether the deviation or discrepancy is programmatic.

### 2.0 Description of Corrective Action

A summary of the proposed corrective action shall be provided. The source of the proposed corrective action (i.e., DAP or Project) shall be stated.

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#### 3.0 Acceptance Criteria

The minimum conditions necessary for the proposed corrective action to be found acceptable shall be listed.

#### 4.0 Evaluation

A statement shall be made on whether the proposed corrective action will correct (or has reasonable assurance of correcting) the noted deviations, deficiencies or adverse trends and that the acceptance criteria will be met. The bases for the statement shall be provided including an identification of the level of third-party overview required (see Section 4.3.6).

#### 5.0 Conclusion

A conclusion shall be drawn as to whether the proposed corrective action is acceptable.

#### 6.0 Attachments

Attachments shall be used as necessary if the corrective action evaluation form does not provide adequate room to meet the above requirements.

Upon completion of the corrective action evaluation, the Discipline Coordinator shall sign and attach a corrective action evaluation cover sheet (Attachment A) which identifies the Corrective Action Evaluation or IRR by number, and forward the evaluation to the DAP Manager (or Construction Quality Interface Manager, where appropriate). The DAP Manager or Construction Quality Interface Manager shall review the evaluation to determine whether he concurs in the conclusion. He shall resolve his comments with the Discipline Coordinator and sign the cover sheet. Where required by the next section of this procedure, the evaluation shall be sent to the RTL; otherwise, the DAP Manager (or Construction Quality Interface Manager) shall forward the evaluation or IRR to the appropriate Project personnel.





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Note: The DAP evaluation of a corrective action definition is not required when the corrective action is specifically defined in the CPRT Program Plan as approved by the SRT.

### 4.3.3 RTL Approval of Evaluations

The RTL shall review and concur in the corrective action evaluation when the corrective action is due to one of the following conditions:

- Safety significant deficiencies identified by the DAP
- o Unclassified deviations, IRR's or programmatic deficiencies identified by the DAP
- Design deviations identified by the DAP that involve a failure to meet FSAR criteria or commitments, other licensing commitments, or NRC regulations
- Design deviations identified by the DAP that have been determined by the Project to meet the reportability criteria set forth in 10 CFR 50.55(e).

Except when SRT approval is required as stated in Section 4.3.4 of this procedure, the RTL shall, upon resolution of any comments with the DAP Manager (or Construction Quality Interface Manager), sign the cover sheet and forward the Corrective Action Evaluation or IRR to appropriate Project personnel.

### 4.3.4 SRT Approval

SRT approval is required where an approved corrective action consists of a corrective action originally proposed by the DAP that involves one of the following:

Programmatic corrective actions

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- Resolution of specific safety-significant deficiencies
- Resolution of deviations through a change to the FSAR or licensing commitments.

When SRT approval is required, the RTL shall indicate that requirement on the evaluation cover sheet and submit the Corrective Action Evaluation to the SRT and provide a copy of the Corrective Action Evaluation or IRR to appropriate Project personnel.

### 4.3.5 Interaction Between DAP and Project Personnel

The Project may obtain clarification of a DIR from DAP personnel at any time and DAP personnel may obtain clarification of proposed corrective actions at any time. Such clarifications may be oral and need not be documented unless it is required by DAP 12 or is material to understanding the adequacy of the corrective action. In any case, the exchange of such clarifications shall not affect whether a proposed corrective action is considered to be Project-originated or DAP-recommended.

### 4.3.6 Overview of Corrective Action Implementation

Third-party overview of Project corrective action implementation is intended to accomplish the following objectives:

- o To ensure that the corrective actions for each unclassified deviation, IRR and programmatic deficiency have been effectively implemented.
- To ensure that the corrective actions for each specific safety-significant deficiency have been effectively implemented.
- To ensure that the corrective actions for each specific design deviation that involves a failure to meet FSAR and

3





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- licensing commitments have been effectively implemented.
- To ensure that the corrective actions for each specific deviation that meets the reportability criteria of 10CFR50.55(e) have been effectively implemented.

The Discipline Coordinators are responsible for ensuring that the Project has demonstrated the ability to successfully implement the defined corrective actions in the applicable technical and programmatic areas and to resolve all aspects of the specific deficiency or deviation for which the corrective action is required and to preclude similar deviations and deficiencies from occurring in the future.

The level of overview required to accomplish this will vary depending upon the nature of the corrective action required. As a minimum the corrective action evaluation described in Section 4.3.2 is required. Very prescriptive and straightforward corrective actions will obviously require less overview than complex technical or programmatic corrections. General requirements for the level and method of overview to be employed are as follows:

- The Discipline Coordinator shall confirm the adequacy of the Project's implementation of corrective actions for each DAP-identified design deficiency. Such confirmation shall be accomplished by review of the design documentation that reflects the implementation of the corrective action, and, if applicable, the documentation that demonstrates that the as-constructed condition of the plant is in conformance with the revised design documentation.
- The Discipline Coordinator shall confirm the adequacy of the Project's implementation of corrective actions for each specific DAP-identified design deviation that involves a failure to meet FSAR criteria or commitments, other licensing commitments, or NRC regulations (i.e., 10CFR). The nature and extent of the confirmatory

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activities will vary depending upon the nature of the corrective action defined for each design deviation. In this regard, the following considerations shall apply:

- The extent to which the defined corrective action is specific (i.e., not subject to interpretation with respect to implementation).
- The extent to which the defined corrective action is complex (i.e., involving a set of related activities where interface considerations are of importance).
- The extent to which the defined corrective action is, of itself, dispositive of the underlying design deviation (i.e., not dependent upon additional analyses or evaluations).

The confirmatory activities will include, at a minimum, review of the design documentation that reflects the implementation of the corrective action, and, if applicable, the documentation that demonstrates that the asconstructed condition of the plant is in conformance with the revised design documentation.

If the SRT has concurred with a defined corrective action that resolves a deviation through a justifiable change to existing FSAR or licensing commitments and if such change does not involve a redesign or reanalysis, DAP confirmatory overview shall not apply.

- The Discipline Coordinator shall confirm the adequacy of the Project's implementation of corrective actions for any other design Seviations that meet the reportability criteria set forth in IOCFR50.55(e). For such cases, the confirmatory activities will be governed by the considerations and criteria described above for the case of a failure to meet FSAR criteria or commitments.
- The Discipline Coordinator shall confirm the adequacy of the Project's implementation of corrective actions for each DAP-identified unclassified deviation, IRR or programmatic deficiency. Such corrective actions are expected to be defined in the form of revisions to Project policies, programs, and implementing procedures or instructions related to design activities, including but not





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limited to design control. DAP confirmatory activities will be accomplished through reviews of the revised documents that reflect such changes.

- The Discipline Coordinator shall determine the need for and extent of corrective action overviews for any other deviations using the same considerations described above for the case of a failure to meet FSAR criteria.
- The above general requirements shall also be applied by the DAP to deviations and deficiencies with design significance identified by the QOC.

As a minimum, an engineering evaluation shall be prepared to document the completion of the DAP overview activity for the scope of each corrective action. The engineering evaluation shall describe the scope, methods and results of the review. Particular emphasis is to be placed on describing the basis for the selected implementation reviews and the bases for confidence that all corrective actions will be effectively implemented. The format for the engineering evaluation shall follow the outline contained in Section 4.3.2, unless an alternative format is specified by memorandum by the Discipline Coordinator. The DAP averview activities may be documented within related DAP topical engineering evaluations or within specific engineering evaluations initiated for the sole purpose of documenting the evaluation of CPSES project corrective action implementation. The engineering evaluation shall describe the DAP overview activities as well as the corrective action summary. When electing to follow the format specified in Section 4.3.2, this description shall be provided in Section 2.0, Description of Corrective Action.

### 4.4 Applicability to TRT Issues

This procedure may be applied by the Civil/Structural/Mechanical (CSM) Review Team Leader to design deviations and deficiencies (including programmatic deficiencies) identified by CSM personnel in the course of implementing the



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Action Plans associated with CSM TRT issues. The RTL election to use this procedure may be in the form of a memorandum to appropriate personnel advising them of the applicability of this procedure. In such a case the RTL shall designate specific individuals for each TRT issue to perform the responsibilities described in this procedure for the DAP Manager (or Construction Quality Interface Manager) and Discipline Coordinator. The designated individuals may be the same individuals that would perform these functions for DAP-identified deviations and deficiencies.

#### 5.0 DOCUMENTATION

#### 5.1 In Process Reviews

In Process Reviews shall be documented in the form of written comments or summary meeting descriptions. Contact log sheets (see DAP-12) may be used to meet this requirement. This documentation shall be placed in the DAP Files in accordance with DAP-14.

### 5.2 Final Product Reviews

Final Product Reviews shall be documented by engineering evaluations and, where appropriate, formalized checklists. Calculations or inspection reports may also be originated to support the engineering evaluation conclusions. Discrepancies identified in the course of final product reviews shall be documented on DIR forms in accordance with DAP-2. Documentation resulting from final product reviews shall be placed in the DAP Files in accordance with DAP-14.

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# 5.3 Corrective Action Definition Evaluations

Corrective Action Evaluations shall be documented and given identification numbers as required by this procedure. This documentation shall be placed in the DAP Files in accordance with DAP-14.

### 5.4 Corrective Action Overview

Corrective action reviews shall be documented by formal checklists and/or engineering evaluations. Discrepancies identified during a corrective action overview shall be documented on DIR forms in accordance with DAP-2. Documentation resulting from corrective action overviews shall be placed in the DAP Files in accordance with DAP-14. Results of confirming overview of corrective action activities shall be reported by the Discipline Coordinator as part of the Discipline-Specific Results Report or in a supplement to that report.



# ATTACHMENT A CORRECTIVE ACTION EVALUATION

	NUMBER: DAP-CAE- (Enter Dir Number)	
	or	
	DAP-E- (Enter Engineering Evaluation Number for IRR)	1
	Revision	
	Proposed Corrective Action is:	
	Accepted	•
	Not Accepted	
-	Discipline Coordinator Date	
Approved:		
-, <u> </u>	DAP Manager/Construction Quality Interface Manager	_
	RTL APPROVAL REQUIRED? Yes No	
Approved:		
	Review Team Leader	-
	SRT APPROVAL REQUIRED? Yes No	

TNT-85-6262/20

#### ATTACHMENT B

COMANCHE PEAK ADEQUACY PROGRAM CORRECTIVE ACTION EVALUATION	Evaluation Number: DAP-CAE- Rev: Number of Sheets: DAP Discipline:
Issue/Discrepancy Title:	
Description of Issue/Discrepancy:	
Structure(s), System(s), or Component(s) Affected:	
The state of the s	
COMPLETE THE FOLLOWING. USE ATT	ACHMENTS AS NECESSARY.
Description of Corrective Action:	
Accordance Cainai	
Acceptance Criteria:	
References:	
Evaluation:	
Evolucion:	
Conclusion:	
D Acceptable D Not Acc	eptable
Prepared By/Date / Check	ked By/Date /

### ATTACHMENT IX

COMANCHE PEAK RESPONSE TEAM
DESIGN ADEQUACY PROCEDURE ADDENDUM

Procedure: DAP-20

Revision: 3 Addendum: 1

Title: DAP OVERVIEW OF ACTIVITIES PERFORMED

BY THE CPSES PROJECT OR OTHER EXTERNAL

ORGANIZATIONS

#### PURPOSE

This addendum provides for the use of an Overview Comment Record to record comments during "in process" reviews.

#### SCOPE

Section 5.1, "In Process Reviews," has been revised to read as follows:

In Process Reviews shall be documented in the form of written comments or summary meeting descriptions. Contact log sheets (see DAP-12) or Overview Comment Records (Attachments C and D) may be used to meet this requirement. The DAP Manager or his designee shall develop and control an appropriate numbering system for Overview Comment Records. This documentation shall be placed in the DAP Files in accordance with DAP-14.

#### INSTRUCTION

This addendum (including Attachments C and D which are attached to this Addendum) shall remain in effect until approval of the next revision of DAP-20. This addendum shall be securely attached to each controlled copy of DAP-20.

Prepared By: June A Date: 2/2/87

Reviewed By: June Date: 2/3/87

Approved By: June Date: 2/3/87

### OVERVIEW COMMENT RECORD CPRT DESIGN ADEQUACY PROGRAM TO: CONTROL NO. DAP-OCR-ORGANIZATION \_\_ NO. PAGES: \_\_\_\_\_(INCL. ATTACHMENTS) ADDRESS: SUBJECT: ATTN: .... PRIMARY REFERENCE(S): FROM: ADDRESS: DVP NO .: INFORMATION ONLY A RESPONSE REQUESTED DISCIPLINE: COMMENTS: O NO COMMENTS REFERENCE/ CITATION (Use additional sheets as necessary.) REVIEWER: GROUP LEADER: INETIALS: DATE: ACTION(5): D NO ACTION REQUESTED RESPONSIBILITY ADDRESSEE (Use additional sheets as necessary.) OCR DISTRIBUTION: L. BATES F. B JRGESS S. KARPYAK T. TYLER S. STAMM J. CARTY R. ACKLEY R. 10TY R. GRUBB R. KLAUSE R. KLAUSE FILE COPY (BETHESDA) FILE COPY (BERKELEY) FILE COPY (SITE) H. LEVIN E. WAIS F. DOUGHERTY J. MILLER R. NEWMAN F. SCHOFER T. SNYDER E. B. ACKWOUD C. MOFTGAY C. KINCHER D. NY VAN F. LAHDVSKI T. SNYDER D. BROSNAN FORM DAP-20.0

OVERVIEW COMMENT RECORD CONTINUATION SHEET	CONTROL NO: DAP-OCR

FORM DAP-20-36

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# ATTACHMENT XI

# COMANCHE PEAK DESIGN REVIEW SUMMARY CHICKLIST

CHECALIST NUMBER DAP-CLR-QOE, REV. O

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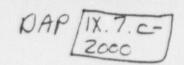
List Design Criteria for this Review. The design cr	riteria applicable to th	is
review are identified in the Design Criteria List, [	DAP-CR-P-001, Revision 2	
Assumptions Listed for Each Document?	Yes X No	_
Are the Assumptions Reasonable and Valid?	Yes_X No	
Are the Assumptions Consistent with		
Design Criteria/Implementing Documents?	Yes_X No	
Have all Assumptions which Require Verification Been Verified?	Yes No_X	
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Comments on Assumptions (Discuss Each "No" Answer Abo	DVE)	
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identified as requiring verification during implement	tation review	PRITINGS ONLY WA
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Are the References Including Data Sources (for the Documents Reviewed) Listed?	Yes_X No
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Comments on References: (Discuss Each "No" Answer Above	
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# List Computer Programs Used.

Program		
NUP1PE-SW	Reference	Verified
PITRUST	CPPP-7	Yes/No
PILUG	CPPP-7	No
PITRIFE -	CPPP-7	No
STE HAM	CPPP-7	No
WAT HAM	CPPP-7	No
WARSLUG	CPPP-7	No
ELBOW	CPPP-7	No
PSPECTRA	CPPP-7	No
STRUDL-SW	CPPP-7	No
STRUDAT	CPPP-7	No
SANDUL	CPPP-7	No
BASE-FLATE-11	CPPP-7	No
BIP	CPPP-7	No
APE	CPPP-7	No ·
CHPLOT	CPPP-7	No
ADL PIPE	CPPP-7	No
JAP	CPPP-7	No
ASPLT	CPPP-7	No
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Summarize Results of the Review.	
The review indicated that SWEC procedu	res CPPP-6 & 7 were adequately reviewed
against the established design criteri	e and that items found unsatisfactory were
documented in appropriate DIRs. Addit	ionally, those items which could not be
reviewed will be identified in the Fin	el Surveillance Audit Report referred to
above.	
	•
Discrepancies Identified (if applicable	) (Reference DAPTS DIR Number)
No discrepancies were found against the	checklist.
Numerous DIRs were revised end closed b	esed on the procedure review, DIRs
C-0024, C-0029, C-0060 and C-0072 concl	ude unsatisfactory conditions remain to
be resolved. Required resolution of th	ese conditions will be essured by the
TAP in accordance with TU Memorandum CPI	RT-87'6.
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# ATTACHMENT X

# DESIGN REVIEW SUMMARY CHECKLIST

CHECKLIST NUMBER DAP-CLE-001, Fev. 1

				***************************************	***
Documents Reviewed:					
Document Name	Number	Rev	Date	Safety-	Related No
ipe Stress/Support					
recedure	CFFF-6	_1_	10/31/85	<u>y</u>	-
esign Criteria for ipe Stress and ipe Supports					
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review are identified in the Design Criteria List		
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Assumptions Listed for Each Document?	Ves V	No
are the Assumptions Reasonable and Valid?		
	Yes_X	No
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erification Been Verified?	Yes	No_X
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any of the attributes on the checklist (marked "N	(C") have been	dentified
S. Viguiring verification during implementation re	view. Addition	ally some
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here items are being incorporated as attributes of	n the implements	ition
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Are the References Including Data Sources (for the Documents Reviewed) Listed?	Yes_X No_
Are References Sufficiently Identified with Revision or Date?	Yes X No
Comments on References: (Discuss Each "No" Answer	Above)
Were Changes from Specified Design Criteria Identif Reasons for the Change? N/A Was an Appropriate Design Method Used? NO	ied, as well as the
Explain: These items, for which the design method we	as incorrect. are
identified as UNSAT on the checklist and on the app	orriste DIRs issued.
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# List Computer Programs Used.

NUFIPE-5W	Reference	Verifie
PITRUST	CPFF-7	Yes/No
PILUG	CPPF-7	NO
PITRIFE	CPPF-7	NO
STE HAM	CPPP-7	NO
WAT HAM	CPFF-7	NO
WARSLUG	CPPF-7	NO
ELPOW	CPFP-7	NO
PSFECTRA	CFPP-7	NO
STRUDL-SW	CPPP-7	NO
STRUDAT	The state of the s	ND
SANDUL	CPPF-7	NO
FASE-FLATE-II	CPPP-7	NO
PIP PIP	CPPP-7	NO
APE	CPPP-7	NO
CHFLDT	CPPF-7	NO
	CPPP-7	NO
ADL PIPE	CPPF-7	ND
BAP	CPFP-7	NO
PSPLT	CFFF-7	NO
P-DELTA STRUDL	CPPP-7	NO
NUDL	CPPF-7	NO
STREET, STREET	CPPF-7	ND
Are the Computer Dutputs Reasonable Concared to Explain: The Checklist was used to document a siping analysis and support design as described edures. Specific analysis results such as comparing the implementation review.	review of the methodo	logy for
	THE ENGINEER COMMUNICATION OF THE STATE OF T	Control of the State of the Sta
	The second section of the second section of the second sec	D BERGHAMMAN AND AND AND AND AND AND AND AND AND A
	Control of the Contro	-

Summarize Results of the Review.
The review indicated that the SWEC procedure, CPFF-6 & 7, were adequately
reviewed against the established design criteria and that items found
unsatisfactory were documented in appropriate DIRs. Additionally, those
items which could not be reviewed were identified as attributes to be
included in the implementation review checklist.
Revision 1 of the checklist was the initial review of the procedures. There is no Revision 0.
Revision 2 of the checklist was issued to accomplish the following:
p Correct "ITEM/ISSUE DESCRIPTION" and "ATTRIBUTE" titles
p Correct appropriate Design Criteria numbers in accordance with revi-
sion 1 to the Design Criteria List
p Append appropriate DIR numbers for DIRs which had been issued against
the procedures
Descrepancies Identified (if applicable) (Reference DAPTS DIR Number) No discrepancies were found against revision 2 of the checklist.
The following DIRs were issued against the SWEC procedures:
C-0016 through C-0045 Revision 0
2-0047 through C-0073 Revision 0
List References: Checklist DAP-CLC-P-001, Revision 1 & Revision 2  Design Criteria List DAP-CR-P-001, Revision 1
AN-high.  6-16-67  Date  6/17/67
6/11/67
Distipline Coordinator Date

# UNITED STATES OF AMERICA NUCLEAR REGULATORY COMMISSION

#### before the

#### ATOMIC SAFETY AND LICENSING BOARD

In the Matter of ) Docket Nos. 50-445-OL 50-446-OL TEXAS UTILITIES GENERATING ) (Application for an (Comanche Peak Steam Electric ) Operating License) Station, Units 1 and 2)

#### CERTIFICATE OF SERVICE

I, Thomas A. Schmutz, hereby certify that the foregoing Attachments to Applicants' Answers to Board's 14 Questions was served this 31th day of December 1987, by mailing copies thereof (unless otherwise indicated), first class mail, postage prepaid, to:

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Dated: December 31, 1987