TMS5,029/2	
Revision No.:	

# TECHNICAL & MANAGEMENT SUPPORT SERVICES DOCUMENT TRANSMITTAL/ACKNOWLEDGMENT RECORD

WBS: <u>1.2.9</u>
QA: <u>QA</u>
Page <u>1</u> of <u>1</u>

TO:

BELKE W L, NRC, 4H-3 1717 H STREET N.W.

WASHINGTON, DC 20555-0000

FROM: Science Applications Int. Corp.
Document Control Center
101 Convention Center Drive
Suite 407, Mail Stop 517 / T-34

Las Vegas, Nevada 89109 FTS 544-7810 or (702)794-7810

TRANSMITTAL DATE: 01/09/91

**COPY NO.: 223** 

DOCUMENT TITLE: YUCCA MOUNTAIN PROJECT OFFICE QUALITY MANAGMENT PROCEDURES

DOCUMENT REVISION:

44

DOCUMENT IDENTIFICATION NUMBER: YMPO/88-1

**DIRECTIONS** 

REPLACE: Table of Contents, Rev. 43, dated 10/23/90 with

Table of Contents, Rev. 44, dated 12/28/90

REPLACE: QMP-03-09, Rev. 1, dated 10/25/90 with

QMP-03-09, Rev. 2, dated 01/11/91

\*\*\*\* Destroy or mark obsolete material "Superseded" \*\*\*\*

Due Date

TC: 5.C.

SIGN/DATE IN BLACK INK BELOW TO CONFIRM THAT THE ABOVE DIRECTIONS HAVE BEEN FOLLOWED, AND RETURN THIS TRANSMITTAL RECORD, WITH THE OBSOLETE MATERIAL, AS APPROPRIATE, TO THE ABOVE ADDRESS BY:

01/30/91

Document Holder Signature

1/23/97

Date

<<< FOR DOCUMENT CONTROL CENTER USE ONLY >>>

OBSOLETE MATERIAL RECEIVED:

DCC Personnel Initials

Date

9101240337 910111 PDR WASTE WM-11 PDR

11403 WM-11

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NOTE: ALL DOCUMENTS THAT ARE "IN PREPARATION", HAVE BEEN TAKEN OFF OF THE TABLE OF CONTENTS. THIS ACTION DOES NOT AFFECT THEIR STATUS IN THE REVIEW PROCESS.

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QMP-02-03		Management Assessment	1 (10/19/90)
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QMP-02-08	4		(8/27/90)
QMP-02-08		Technical Assessment Review	0 (8/8/88)
QMP-02-09		Development and Conduct of Training	1 (10/17/90)
QMP-03-01	1		(7/20/90)
QMP-03-01	2		(7/25/90)
QMP-03-01	3		(9/17/90)
QMP-03-01		Peer Reviews	1 (1/11/89)

#### ${\tt YMF} \quad {\tt wality} \; {\tt Management Procedures} \; ( {\tt wall} \; s )$

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PROJECT MANAGER: 0:	riginal si <u>gned</u> b <del>y</del>	Carl Gertz Signature	THIS IS A SERED STAMP	0/10/90 Unte
DIRECTOR OF QUALITY A	ASSURANCE:D	onald G. Horton Signature	COPY	10/11/90 Date
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(OTHER, AS REQUIRED)		Signature		Date
	REVISION 0 EFFECT	TIVE DATE:10/	17/90	
		REVISIONS		
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	REVISION 1	REVISION 2	REVISION 3	REVISION 4
PROJECT MANAGER:	Edwin L. Wilmot 10/24/90	12/20/30		
DIRECTOR, QA:	D. G. Horton 10/24/90	NV for DGH (12/21/90		
N/A (OTHER, AS REQUIRED)	N/A	M/A	-	
EFFECTIVE DATE:	10/25/90	1/11/91		



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#### 1.0 PURPOSE AND SCOPE

#### 1.1 PURPOSE

This procedure establishes the responsibilities, interfaces, and methods for Yucca Mountain Project Office (Project Office) processing of (1) Change Requests (CRs) received in accordance with AP-3.3Q, (2) Cost/Schedule Change Requests (C/SCRs) received in accordance with AP-3.7, and (3) Program Document Change Proposals (DCPs) and Directives received in accordance with the Office of Civilian Radioactive Waste Management (OCRWM) Program Change Control Procedure (DOE/RW-0223).

#### 1.2 SCOPE

This procedure includes the following:

- 1. Receipt, tracking, and coordination of CRs and C/SCRs processed in accordance with AP-3.3Q, and Program DCPs and Directives from the Program Change Control Board (PCCB) Executive Secretary.
- 2. Impact evaluation of change documents in support of Project Change Control Board (CCB) disposition decisions.
- 3. Preparation and coordination of Change Directives (CDs) that record and communicate the CCB disposition of changes.
- 4. Preparation of Class 1 changes for submission to the PCCB Executive Secretary.

#### 2.0 APPLICABILITY

This procedure applies to individuals performing activities associated with processing and dispositioning CRs, C/SCRs, DCPs, and Directives.

#### 3.0 DEFINITIONS

NOTE: Terms in this procedure are used as defined in the Project Glossary. The following additional definitions are adopted for the purpose of this procedure.

#### 3.1 CHANGE DOCUMENT

A change document is a document used to request or direct a change. A change document may be a CR or C/SCR issued by the Project or a DCP or Directive issued by the PCCB.

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#### 3.2 CHANGE DOCUMENT PACKAGE

A Change Document Package is the collection of CRs, C/SCRs, DCPs, Directives and associated reviews, assessments, analysis, and supporting documentation related to a change.

#### 4.0 RESPONSIBLE PARTIES

The following Project Office individuals or organizations are responsible for the activities identified in Section 5.0 of this procedure:

- 1. Project Office Deputy Project Manager (CCB Chairperson)
- 2. Project Office Division Directors (CCB Members)
- 3. Site Manager (CCB Member)
- 4. Project Office Director of Quality Assurance (CCB Member)
- 5. CCB Secretary

#### 5.0 PROCEDURE

NOTE: A flowchart of the following processes described in this procedure is attached as Figure 1.

RESPONSIBLE PARTY

STEPS

**PROCEDURE** 

#### PROCESSING CHANGE REQUESTS

CCB Secretary

- Determine type of change document and process in accordance with the following:
  - a. If it is a Program DCP or Directive, then enter receipt information into the Configuration Information System (CIS) using the identification number assigned by the PCCB Executive Secretary.
  - b. If it is a C/SCR or CR, then assign a tracking number to the change document and enter receipt information into the CIS.

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RESPONSIBLE PARTY

#### STEPS PROCEDURE

- c. If it is a modified CR, then
  - 1) Assign a change request modification number to the CR form, and record receipt information into the CIS.

The modification number consists of the original CR number, followed by the letter "M," and a sequential number indicating the total number of modifications requested for the CR.

Example: CR # - M1

2) Advise the CCB Chairperson of the extent of the modification and obtain a determination of any requirements for further processing.

#### REVIEWING CHANGE DOCUMENTS

 Obtain the desired method for Change Document evaluation and impact analysis requirements and the designated review organizations from the CCB Chairperson.

If immediate disposition is directed, then go to Step 9.

- 3. Request Change Document review, analysis, assessment, and additional studies by affected Participants as directed by the CCB in accordance with the following:
  - a. If the Change Document is a CR, DCP, or Directive, then request review in accordance with AP-3.3Q, as directed.
  - b. If the Change Document is a C/SCR, then request review in accordance with AP-3.7.

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#### RESPONSIBLE PARTY

#### STEPS PROCEDURE

CCB Secretary

4. Prepare a Change Document Package, and provide a copy to each CCB Member for evaluation.

The Change Document Package may include

- a. A copy of the Change Document (i.e., CR, C/SCR, DCP, and Directive)
- b. Copies of all reviews, analyses, assessments, and studies performed by the affected organizations, including supporting documentation
- c. A copy of Attachment 1, Change Evaluation (CE) Form
- d. A schedule for completion of the evaluation
- e. A schedule of review meetings for the CCB

#### REVIEWING CHANGE DOCUMENT PACKAGES

CCB Members

- 5. Evaluate the Change Document Package, and prepare the CE in accordance with Attachment 1 instructions. Consider the following items during the review:
  - a. Resource conflicts
  - b. Information provided in the Change Impact Checklist (technical, regulatory, quality, management, institutional, budgetary, schedule, and safety)
  - c. Change Classification upgrade requirements
- 6. Return the Change Document Package and CE to the CCB Secretary by the scheduled completion date.

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#### RESPONSIBLE PARTY

#### STEPS PROCEDURE

#### CCB Secretary

- 7. If an additional investigation is required by the CCB, then coordinate the investigation with the affected organizations. Go to Step 2.
- 8. Prepare Attachment 2, Change Evaluation Summary (CES) Form, in accordance with instructions provided.
  - a. Consolidate and summarize information from the CE forms received from each CCB member.
  - Document additional investigation activities as directed by the CCB.
  - c. Coordinate and document issues and resolution activities.
- 9. Prepare Attachment 3, CD Form, in accordance with the instructions provided, and present the Change Document Package to the CCB Chairperson for signature.

The Change Document Package presented to the CCB Chairperson includes the following as appropriate:

- a. A copy of the Change Document, including supporting documentation, reviews, analyses, assessments, and studies
- b. The CE forms prepared by each CCB member
- c. The CES form prepared by the CCB Secretary
- d. The CD drafted by the CCB Secretary

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RESPONSIBLE PARTY

STEPS

PROCEDURE

#### DISPOSITIONING CHANGE DOCUMENT PACKAGES

CCB Chairperson

- 10. Review the Change Document Package and disposition the Change Document on the CD Form in accordance with attached instructions.
  - a. Conduct CCB meeting to discuss and resolve outstanding issues and CD content, if required.
  - b. Consider recommendations of other evaluators as recorded on the CE and CES forms.
  - c. Return the Change Document Package to the CCB Secretary for processing.

CCB Secretary

- 11. Process dispositioned Change Document Packages in accordance with the following:
  - a. If the Change Document is a DCP received from the Associate Director for Geologic Disposal, then
    - Complete Attachment 2 of the OCRWM Program Change Control Procedure, DCP Evaluation Form, in accordance with CCB instructions.
    - 2) Return the DCP Evaluation Form to the Associate Director for Geologic Disposal for processing in accordance with the OCRWM Program Change Control Procedure.
    - Update the CIS to reflect the current status of the Change Document.
  - b. Otherwise, continue processing Change Directives.

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STEPS PROCEDURE

#### PROCESSING CHANGE DIRECTIVES

CCB Secretary

- 12. Review the disposition of the Change Directive and process as follows:
  - a. If the Change Directive is disapproved, then distribute copies to the affected Participants.
    - If the Change Document is a CR or C/SCR, then close the document.
    - 2) If the Change Document is a PCCB issued Directive, then close the document in accordance with OCRWM Program Change Control Procedure.
    - 3) Go to Step 16.
  - b. If the Change Directive is approved with conditions, then
    - Notify and coordinate condition resolution with the responsible Participants.
    - 2) Verify entry of condition resolution requirements into the Hold Status System in accordance with AP-5.20Q, if directed by CD.
    - Continue the process for an approved change document.
  - c. If the CD is an approved Class 1 CR or C/SCR, then
    - 1) Complete Attachment 1 of OCRWM
      Program Change Control Procedure,
      DCP Form, in accordance with CD.

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#### STEPS PROCEDURE

- 2) Submit the DCP Form to the Associate Director for Geologic Disposal for processing in accordance with OCRWM Program Change Control Procedure.
- 3) Go to Step 16.
- d. If the CD is an approved Class 2 CR or PCCB issued Directive, then transmit the Change Document Package, via transmittal memo, to all affected TPOs/DDs for change implementation in accordance with AP-3.3Q.
- e. If the change document is an approved Class 2 C/SCR, then transmit the Change Document Package, via transmittal memo, to the PCB/P&CD and affected Participants for change implementation in accordance with AP-3.7.
- 13. Coordinate modification to Project CCB controlled documents.
- 14. Complete Attachment 4, Document Change Notice (DCN), and submit modified CCB controlled documents, including DCN, to the Document Control Center in accordance with AP-1.5Q.
- 15. Update the CIS to reflect the current status of the CD.

#### CHANGE REQUEST CLOSURE

- 16. Close change implementation activities upon completion of all activities associated with the change.
  - a. Ensure that written delegation of authority is on file for the change

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#### STEPS PROCEDURE

control documentation and is attached to the records package prior to records package turnover.

- b. Update the Configuration Information System (CIS) to reflect the current status of the change.
- c. Notify all affected Participants that the change has been closed.
- d. Prepare and submit the records package to the Local Records Center (LRC) in accordance with QMP-17-01.

#### 6.0 REFERENCES

NOTE: Refer to the latest revision of the documents listed below unless otherwise stated.

6.1 REQUIREMENTS DOCUMENTS

OCRWM Program Change Control Procedure, DOE/RW-0223

Project Glossary, YMP/89-15

- 6.2 INTERFACE DOCUMENTS
  - a. Project Wide
  - AP-1.5Q, Issuance and Maintenance of Controlled Documents
  - AP-3.3Q, Change Control Process
  - AP-3.7, Cost and Schedule Baseline Maintenance and Change Control
  - AP-5.20Q, Hold Control
  - b. Project Office Internal
  - QMP-17-01, Records Management: Record Source Implementation

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#### 7.0 FIGURES AND ATTACHMENTS

Figure 1, QMP-03-09 Flowchart

Attachment 1, Change Evaluation Form

Attachment 2, Change Evaluation Summary Form

Attachment 3, Change Directive Form

Attachment 4, Document Change Notice

#### 8.0 RECORDS

The following documents used or generated in the implementation of this procedure have been identified as QA Records and shall be forwarded to the LRC for processing in accordance with QMP-17-01, Records Management: Record Source Implementation:

Approved Change Document Packages affecting quality activities

The Change Document Package may include the following items:

- 1. CR form and CR Continuation Pages
- 2. Documents and revisions, including Document Change Notices (DCNs), submitted for entry into the Project CCB Register
- Supporting documentation, including reviews, assessments, analyses, and studies
- 4. CE and CES form(s)
- 5. CD, DCN, and ADN form(s)

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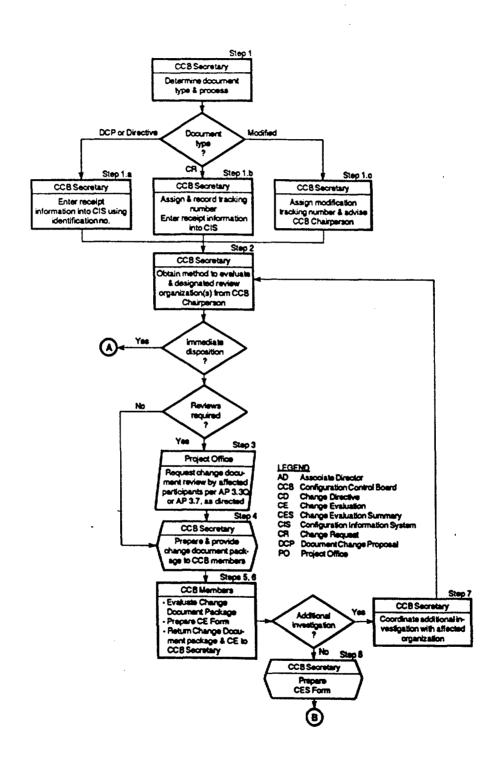


Figure 1 - QMP-03-09 Flowchart

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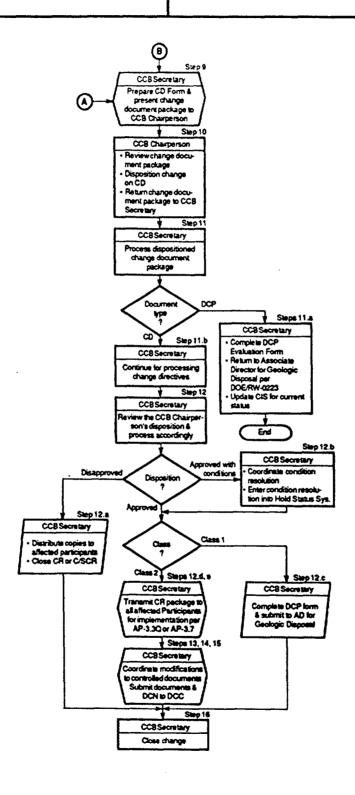


Figure 1 - QMP-03-09 Flowchart (continued)

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Y-AD-056 11-90	YUCCA MOUNTAIN PROJE CHANGE EVALUATION (C	CT 1 CI	R No.	of	
SECTION I. IDENTIFICATIO	N			<del></del>	٦
<sup>2</sup> Title of Change:					
SECTION II. EVALUATION					
,	e Request Impact Checklist where	appropriate) Yes	No	N/A	
a. Has the change been ade	•				
b. Have adequate technical, schedule analysis been p defined by an approved C	, institutional, quality, safety, cost, a performed to justify the change? (Q Grading Package)	and  Duality is			
c. Have all functional and pand discrepancies resolu	physical interfaces been considered ved?	d 0			
d. Have impacts on regula issues been adequately	atory requirements or licensing considered and documented?				
e. Has the Change Request	t been correctly classified?				
identified and addressed		0			Ĭ
g. Have the changes, justi documented and necess made available for disp	ification, and analyses been suffic sary supporting information been osition of this change?	ciently			
	ments affected by the change and p				
	(See Chane	ge Documentation Cont	inuatio	on Page	):
SECTION III. RECOMMEND	PATION				_
5 Recommended Action:	<del>-</del> .				
☐ Additional Investigation (Explain Action)	☐ Approve	☐ Disapprove (Explain Action	١		
, - , - , - , - , - , - , - , - , - , -	Approve with Conditions (Explain Below)	□ No Recommend (Explain Action	ation		
<sup>6</sup> Explain: (if necessary)		· · · · · · · · · · · · · · · · · · ·			
	(See Chan	ge Documentation Cont	tinuatik	on Page	<b>.):</b>
<sup>7</sup> Evaluated By:					
Name:		Fitle:	<del></del>	,	
(print) Signature:	rr	(print) Date:			

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# INSTRUCTIONS FOR PREPARATION OF CHANGE EVALUATION (CE) FORM Y-AD-056

The numbered steps correspond to the numbered blocks on the Change Evaluation Form. Use Change Documentation Continuation Page (Y-AD-055) if additional space is required.

#### SECTION I. IDENTIFICATION

- Enter the Change Request (CR) number assigned by the CCB secretary (see block 1
  of the CR Form).
- 2. Enter the title of the change as indicated in block 2 of the CR Form.

#### SECTION II. EVALUATION

- Mark the boxes as appropriate to answer the questions provided or mark N/A if the question is not applicable. Questions answered "No" shall be explained in block 4.
- Enter any additional impact analysis or assessment of the proposed change. Include
  the effect of the proposed change on other configuration items,
  noting additional cost and schedule impacts.

#### SECTION III. RECOMMENDED ACTION

- Mark the box that indicates the evaluator's recommended action.
- 6. Provide explanation for the evaluator's recommended action for the CR.
- Enter the name and title of the individual preparing the evaluation, and sign and date the evaluation.

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Y-AD-058 11/90	CI					ROJECT			<sup>1</sup> CF Pa	No	of
SECTION I. IDENTIFICA							<u> </u>				
<sup>2</sup> Title of Change:											
										,	
SECTION II. EVALUATI	ON SUM	MARY	·-···		<del></del>						
<sup>3</sup> Summary of Recomme	nded Act	ions:						<del></del>	<del></del> -	<del></del>	
			ECT OFF	CE			ADO	ITIONAL I	EVALUATO	ORS	
Additional Investigation	RASE DIV	EAD DIV	P&CC DIV	ο <b>λ</b>	YNASO						
			_			_	_		_		
Approve	_				_						
Approve with Conditions											
Disapprove											
No Re∞mmendation											
					ĺ	see Chang	э Досил	entation (	Continua	tion name	
SECTION III. IMPACT	NALYS	ES			· · · · · · ·				***		
5 impact Analyses:  (see Change Documentation Continuation page)											
<sup>6</sup> Prepared BY:											
Name: (Print)						Tid	e: Print	<del> </del>			
Signature:	<u></u>					Dat	ie: ——			····	

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# INSTRUCTIONS FOR PREPARATION OF CHANGE EVALUATION SUMMARY (CES) FORM Y-AD-058

The numbered steps correspond to the numbered blocks on the Change Evaluation Summary Form. Use the Change Documentation Continuation Page (Y-AD-055) if additional space is required.

#### SECTION I. IDENTIFICATION

- Enter the Change Request (CR) number assigned by the CCB secretary (see block 1 of the CR Form).
- 2. Enter the title of the change as indicated in block 2 of the CR Form.

#### SECTION II. EVALUATION SUMMARY

- Indicates the recommended action noted on the evaluator's CE Forms. Additional columns are provided for evaluators from other organizations.
- 4. Enter a summary of the evaluations provided by evaluators on CE Forms and resolution coordinating activities undertaken, including any CCB meeting discussions.

#### SECTION III. IMPACT ANALYSIS

- Enter a brief summary of the impact analysis conclusions provided by other evaluators on CE Forms, or additional impact analysis as appropriate.
- Enter the name, title, and signature of the individual preparing the summary, and the date of the summary.

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Y-AD-057 9/90	YUCCA MOUNT CHANGE DIRI		<sup>1</sup> CR No Page of		
SECTION I. IDENTIFICAT	ION				
<sup>2</sup> Title of Change:			3 Change Classification:  Class 1 Class 3  Class 2		
SECTION II. DISPOSITIO	N				
<sup>4</sup> CR Disposition: ☐ Approved	☐ Approved with Conditions	☐ Disapproved			
<sup>5</sup> Conditions: (if applicable)					
		•			
	•				
		(See Change Documentation	on Continuation Page)		
		(See Change Documentati	on Continuation Page)		
SECTION III. CONCURR	- <del></del>				
<sup>7</sup> Quality Assurance Organ	ization Concurrence				
Name: (Print)		Org.: (Print)			
Signature:		Date:			
Disposition Authority			<sup>9</sup> Effective Date:		
Name:(Print)		Title:			
Signature:		( <i>i-mnt</i> ) Date:			

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# INSTRUCTIONS FOR PREPARATION OF CHANGE DIRECTIVE (CD) FORM Y-AD-057

The numbered steps correspond to the numbered blocks on the Change Directive Form. Use Change Documentation Continuation Page (Y-AD-055) if additional space is required.

SECTION I. IDENTIFICATION

#### **CCB Secretary**

- Enter the Change Request (CR) number assigned by the CCB secretary (see block 1 of the CR Form).
- 2. Enter the title of the change as indicated in block 2 of the CR Form.
- 3. Enter the change classification as indicated on the CR Form.

#### SECTION II. DISPOSITION

- 4. Mark the box that indicates the disposition of the proposed change.
- 5. Explain any conditions that have been specified for approval of the proposed change. Identify the requirement for the establishment of Project HOLDS. Identify delegation of change authority to the Field Change Control Board (FCCB) and technical, cost, and schedule change thresholds if applicable. If the proposed change is not approved, provide the rationale for disapproval.
- Enter specific guidance and direction to the organization charged with implementing the change or performing additional investigation.

#### SECTION III. CONCURRENCE

#### Project Office Director of QA

 Enter the name, Quality Assurance Organization identification, and sign and date the CD for CRs affecting Quality items or documents.

#### **CCB Chairperson**

- 8. Print name, title, sign and date the CD.
- Enter the effective date when the revised or new document will become effective for implementation. Establishment of the effective date includes training needs and other technical considerations.

Attachment 3 - Change Directive Form (continued)

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Y-AD-059 YUCCA MOUNTAIN PROJECT 990 DOCUMENT CHANGE NOTICE (DCN) RECORD Page of								
<sup>1</sup> Docume	Document Title: 2 Document No.:							
				<u> </u>				
The docu in Block 7 DCN's co	ment identifi opposite the nstitutes the	ed in Blocks 1 and elatest DCN num current version of	d 2 has been changed. The ober in Block 3. The original is of the document identified in E	changed pages attach ssue of this document Blocks 1 and 2.	ed to as m	this odif	DC ied b	N are identified by all applicable
DCN NO.	CR NO.	5 DOCUMENT Rev.1CN #	CR TITLE	7 AFFECTED PAGES	CHANGE	QQV	DELETE	B DATE
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# INSTRUCTIONS FOR PREPARATION OF DOCUMENT CHANGE NOTICE (DCN) FORM Y-AD-059

The numbered steps correspond to the numbered blocks on the Document Change Notice Form.

- 1. Enter the title of the document being changed.
- 2. Enter the document identification number.
- 3. Enter the next applicable DCN number.
- 4. Enter the number of the CR(s) used to effect the specific change.
- 5. List the applicable document revision/ICN number.
- 6. Enter the CR title.
- 7. List the page numbers for any pages affected and indicate the type of change that has been implemented by checking the appropriate column.
- 8. Enter the date on which the change becomes effective as indicated in block 9 of the Change Directive. "N/A" if not applicable.