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Los Alamos
NATIONAL LABORATORY
EST.1943

Effective Date: November 4, 2008

Next Review Date: September 30, 2013

# **Environmental Programs Directorate**

# **Standard Operating Procedure**

## for PROCEDURE DEVELOPMENT

#### **APPROVAL SIGNATURES:**

Subject Matter Expert:	Organization	Signature	Date
Ellena Martinez	WES-RS	Signature on File	11/3/08
Responsible Line/Manager:	Organization	Signature	Date
Perry D. Farley	WES-RS	Signature on File	11/4/08

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#### 1.0 PURPOSE AND SCOPE

This procedure states the responsibilities and describes the process for development, review, validation, approval, and revision of administrative and standard operating procedures (SOP) for the Los Alamos National Laboratory (LANL) Environmental Programs (EP) Directorate. This procedure integrates the criteria of the Quality Assurance Plan for the EP Directorate.

This document is to be used by personnel involved in developing and writing procedures: writers, reviewers, administrators, subject matter experts, support personnel, and users. It provides a step-by-step process for developing new, or revising existing procedures, as well as the cancellation or deactivation of procedures.

#### 2.0 BACKGROUND AND PRECAUTIONS

#### 2.1 Background

This procedure provides guidance for developing accurate, complete, clear and consistent procedures. The information provided in this procedure is compliant with the LANL Conduct of Operations Manual, ISD 315-1, Chapter 16.0, Tier 3 Operations Procedures

http://policy.lanl.gov/pods/policies.nsf/MainFrameset?ReadForm&DocNum=ISD315-1&FileName=ISD315-1.pdf.

#### 2.2 Precautions

- 2.2.1 New and revised procedures require an unreviewed safety question (USQ) screening in accordance with procedure EP-DIR-SOP-4001, Document Control, as part of a completed document history file to defining the work (including hazards, locations, etc.) prior to actual performance of the work.
- 2.2.2 This procedure applies to development of a new or revised procedure into the standard operating procedure (SOP) format or the cancellation/deactivation of a procedure. It does not provide guidance, nor does it include the process for scheduling, developing, editing, formatting, reviewing signing, controlling, producing, distributing, and archiving documents such as letters, reports, and work plans. For information pertaining to these activities, refer to procedure SOP-4006, Document Development and Deliverable Compliance Process.
- 2.2.3 This procedure is not intended to replace the Document Control process. It provides specific information pertaining to a procedure package (new or existing procedure and applicable forms) required by the Document Control Office in accordance with the LANL Conduct of Operations Manual, ISD 315-1, Chapter 16.0, Tier 3 Operations Procedure. Reference procedure EP-DIR-SOP-4001, Document Control, for additional information on the document control process and requirements.
- 2.2.4 This procedure applies to the EP Directorate activities, such as sampling, dose and risk evaluation, data collection, assessment and management, waste acceptance, and waste certification. All other facility-specific procedures must be coordinated through the Environment & Waste Management Operations (EWMO) Division. The EWMO Document Development and Maintenance process may be used for the EP activities as determined by the appropriate EP management.
- 2.2.5 It is the employee's responsibility to ensure they are working to the most current version of a procedure and form referenced within a procedure. SOPs can be found in the Waste Environmental Services (WES) web page at <a href="http://int.lanl.gov/environment/all/qa/adep.shtml">http://int.lanl.gov/environment/all/qa/adep.shtml</a>.

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### 3.0 STEP-BY-STEP PROCESS DESCRIPTION

3.1 Prepari	3.1 Preparing New Procedures				
Procedure Owner or	1.	Contact the Procedure Manager to discuss the need for a new, revised, cancelled, or deactivated procedure and arrange for support for preparation.			
designated Procedure Manager		<b>Note</b> : The procedure owner is the originator who identifies the need for a new or revised document and initiates the formal request to proceed. The procedure owner may designate the processing and preparation of the document to the procedure manager. The procedure manager will assist in preparing required forms, coordinating review and concurrence, and responsible for circulating the procedure package for review and approval.			
	2.	Review the criteria specified in the LANL Conduct of Operations Manual, ISD 315.1, Chapter 16.0, Tier 3 Operations procedures prior to developing a new procedure and the Document Control, EP-DIR-SOP-4001, procedure.			
	3.	Initiate the procedure development process by completing the Procedure Request Form (Attachment 1).			
	4.	Send the form via email to procedure_help@lanl.gov.			
Procedure Manager	5.	Prepare a Procedure Change Request (PCR) form, Attachment 2.			
	6.	Circulate the completed form to the appropriate manager for pre-approval (Responsible Line Manager or Program Director), prior to beginning the procedure development process.			
		NOTE: Use of the terms "Responsible Line Manager" and "Responsible Functional Manager" are both used within the EP Directorate. For purposes of procedure ownership, responsibility, and signature either title is currently acceptable for signature and approval.			
	7.	Track procedure status through completion.			
	8.	Send an email request (if approved by appropriate manager) that includes the following information, to the Document Control Coordinator at <a href="mailto:ep-doccontrol@lanl.gov">ep-doccontrol@lanl.gov</a> , to request a new document control number for the procedure:			
		• title of procedure,			
		<ul> <li>type of document (Administrative Procedure, Building Emergency Plan, and Standard Operating Procedures, etc.),</li> </ul>			
		quality criterion, and			
		identification if the procedure is a "new procedure" or a "revision".			
	9.	Save a copy of the SOP template under the new document control number and title and email the document to the Procedure Owner or Author.			
		NOTE: This template is available on the WES-Division Office (DO) homepage at <a href="http://int.lanl.gov/environment/all/qa/adep.shtml">http://int.lanl.gov/environment/all/qa/adep.shtml</a> .			

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Procedure Owner	10.	Complete each section of the SOP template. If the section does not apply, mark the section as Not Applicable (NA), i.e., flow charts not used within the procedure.
		Purpose and Scope
		Background and Precautions
		Equipment and Tools
		Step-by-Step Process Description
		Process Flow Chart
		Revision History
		Attachments.
	11.	Include the periodic review date on the cover page of the procedure, not to exceed the required 5-year review.
	12.	If the procedure is new (not superseding an existing procedure), the procedure is designated as "Revision 0."
	13.	Specify changes to be made to the procedure in the Revision History section.
	14.	E-mail the draft procedure to the Procedure Manager at <a href="mailto:procedure_help@lanl.gov">procedure_help@lanl.gov</a> . The Procedure Manager will convert file from pdf to Word, if necessary, format, acquire a new Document Control identifier, coordinate update, review, and signature coordination.
Procedure Manager	15.	Review the draft document and ensure that each section of the SOP template is complete, in accordance with the requirements of the LANL Conduct of Operations Manual, ISD 315-1, Chapter 16.0, Tier 3 Operations Procedures.
	16.	Verify that the procedure meets the requirements specified in procedure EP-DIR-SOP-4001, Document Control.
	17.	Perform quality check to ensure the procedure contains: document title, appropriate signature reviews, a page number on each page, attachments, forms, etc.
	18.	Facilitate a peer review when the Procedure Owner specifies a peer review on the procedure request form, in compliance with procedure EP-ERSS-SOP-4005, Peer Review.
Procedure Owner	19.	Provide names of individuals to be included in the peer review of the document (i.e., Subject Matter Expert (SME), Quality Assurance (QA), Industrial Hygienist (IH), and Safety).
Procedure Manager	20.	Ensure each reviewer has completed a Procedure Review and Concurrence Form (Attachment 3), within the procedure document package.
Peer Reviewer	21.	Evaluate the procedure content related to their area of expertise for accuracy, clarity, and compliance with established requirements.
	22.	Complete each section of the Procedure Review and Concurrence form by numbering each comment sequentially, and providing a brief description of the comment.
	23.	If there are no comments on the procedure, specify "No comments" in the comment section of the form.

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Cont.	24.	Sign the Procedure Review and Concurrence Form (Attachment 3), attesting to completion.	
Procedure Owner	25.	E-mail the final draft document to the Procedure Manager for closure, when all reviews are completed and comments resolved.	
Procedure Manager	26.	Complete Part # 1 of the Procedure Validation Checklist (Attachment 4), as required by the LANL Conduct of Operations Manual, ISD 315-1, Chapter 16.0, Tier 3 Operations Procedures, Section I. and F.	
	27.	Include the Procedure Validation Checklist with the procedure document package to be sent to the Document Control Coordinator.	
Procedure Owner	28.	Identify SME(s) that will complete Part #3 and Part #4 of the final Procedure Validation Checklist.	
	29.	Contact the EP Training Office at <a href="mailto:eptraining@lanl.gov">eptraining@lanl.gov</a> to schedule training review to complete the training level determination form.	
Procedure Manager	30.	Review contents of procedure document package to ensure that the document meets the specifications of the LANL Conduct of Operations Manual, ISD 315-1, Chapter 16.0, Tier 3 Operations Procedures, and document control requirements.	
	31.	Circulate the final procedure package for approval signatures on the PCR form to designated reviewers and designated approval personnel:  SME(s), Procedure Owner Responsible Line/Functional Manager Derivative Classifier (DC) Review Quality Assurance Team Leader (optional) USQ Review EP Training Team Leader or designee.  Allow each reviewer five (5) working days to review and sign the PCR form from date of circulation.	
Procedure Manager Cont.	33.	Deliver the final procedure package, which includes the following documents, to the Document Control Coordinator:  • Final Approved Procedure  • Procedure Review and Concurrence Form(s)  • Procedure Validation Checklist  • Procedure Change Request Form  • A Training Level Determination Form is required for all new or revised procedures (refer to EP-DIR-SOP-2011 Personnel Training and Qualification procedure)  • and any other related documents.	
	34.	Obtain the signature of the SME, QA, and the Responsible Line/Functional Manager on the cover page of the final procedure.	

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Cont.	35.	Ensure each form included in the procedure package is completed, including the required signatures.
	36.	Send a final email to the Document Control Coordinator at <a href="mailto:ep-doccontrol@lanl.gov">ep-doccontrol@lanl.gov</a> , attaching the final Word version of the new procedure.
3.2 Revisi	ng Existi	ng Procedures
Procedure Owner	1.	Contact the Procedure Manager to discuss the need for a revision to a procedure.
	2.	Review the LANL Conduct of Operations Manual, ISD 315-1, Chapter 16.0, Tier 3 Operations Procedures prior to revising an existing procedure.
	3.	Determine if the revision is a technical (i.e., major) or editorial (i.e., minor) change (see Section 3.1, step 13).
	4.	Contact the EP Training Office at <a href="mailto:eptraining@lanl.gov">eptraining@lanl.gov</a> to schedule training review to complete training level determination form.
	5.	Send a completed procedure request form to the Procedure Manager or email to <a href="mailto:procedure_help@lanl.gov">procedure_help@lanl.gov</a> to request assistance in updating the procedure.
		When a procedure falls within the required schedule review period, and the Procedure Owner has changed, identify a new Procedure Owner based on reassignment by the Responsible Line Manager.
	7.	Use the information on the Procedure Request Form, prepare a Procedure Change Request form and forward to the Responsible Line Manager for approval to update and revise the procedure.
		NOTE: In the absence of the Responsible Line Manager, the Program Director may also approve.
	8.	Upon approval for procedure update, send an email request to the Document Control Coordinator at <a href="mailto:ep-doccontrol@lanl.gov">ep-doccontrol@lanl.gov</a> to request a copy of the electronic word version of the procedure.
	9.	If an electronic version is not available from Document Control, convert the latest revision copy of the Adobe Acrobat procedure posted on the web into a Word version.
	10.	Include the procedure title and the document control number that is being superseded.
	11.	Change the revision numbers as follows:
		<ul> <li>Technical Revision – number will increase one whole number (e.g., Revision 0 goes to Revision 1.0);</li> </ul>
		• Editorial Revision – number will increase by .1 (e.g., Revision 0 goes to 0.1).
		Determine the type of changes to be made using the following criteria:
		<ul> <li>Minor Change includes: correcting grammar or spelling, without changing the meaning, renumber sections or attachments, updating organizational titles without changing assigned responsibilities, update number or titles of other documents referenced in document, and revising or reformatting forms.</li> </ul>
		<u>Major Change</u> includes: any document change, including cancellation that cannot be characterized as a Minor Change or Immediate Document Change.
	12.	Prepare a PCR Form to update the procedure.

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Procedure Manager Cont.	13.	Provide the Review and Concurrence Form and Procedure Checklist Validation Form to the Procedure Owner to complete.
	14.	Send a copy of the "final draft" electronic word version of the procedure to the Procedure Owner to distribute to selected reviewers [SME(s), QA, IH, Safety, etc.] for review and concurrence.
Peer Reviewer	15.	Review procedure for adequacy, technical accuracy, and completeness prior to approval for issue.
	16.	Complete each section of the Review and Concurrence form (Attachment 3) by numbering each comment sequentially, and provide a brief description of the comment.
		NOTE: Reference the Environmental Peer Review process for further details.
	17.	Indicate "No comments" if there are no comments on the procedure, in the comment section of the Review and Concurrence form.
	18.	Return the signed and completed Review and Concurrence form to the Procedure Owner.
Procedure Owner	19.	Perform comment resolution on comments received from all Peer Reviewers prior to approval of procedure.
		NOTE: Concurrence must be reached on comments prior to closing the review process prior to closing the review processIf resolution or concurrence can not be achieved the issue can be elevated to the Responsible Line Manager for documented resolution and closure of the issue.
	20.	Close the peer review process by signing and dating the Procedure Change Request, Review and Concurrence, and the Procedure Validation Checklist forms.
	21.	Send the final procedure and applicable forms to the Procedure Manager.
Procedure Manager	22.	Deliver the final procedure package, which includes the following documents, to the Document Control Office (located at the Pueblo Complex, Room 109):
		Final Procedure
		<ul> <li>Procedure Review and Concurrence Form(s)</li> </ul>
		Procedure Validation Checklist
		Procedure Change Request Form
		A Training Level Determination Form
		and any other related documents.
	23.	Retain the hard-copy Procedure Request form documenting completion of the procedure package.
	24.	Ensure the cover page of the final procedure is signed by the SME or Procedure Owner, and the Responsible Line Manager.  Note: Verify signatures obtained in the former procedure. The PCR form prepared for the revised document must obtain the same signatures.
	25.	Send an email containing the electronic version of the final procedure to the Document Control Coordinator (ep-doccontrol@lanl.gov).

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Procedure Owner	1.	Follow the process described in the LANL Conduct of Operations Manual, ISD 315-1, Chapter 16.0, Tier 3 Operations Procedures, Subsection II, Immediate Document Change (IDC).			
		[NOTE: An IDC is a minor change to an issued procedure made to address urgent operational needs that require expedited processing.]			
	2.	Deliver the document and IDC form directly to the Document Control Coordinator for immediate posting of the changed procedure on the Web Site in accordance with procedure EP-DIR-SOP-4001, Document Control.			
3.4 Cance	lling or D	Deactivation of Procedures			
Procedure Owner	1.	Send an email request, including the following information, to the Procedure Manager at <a href="mailto:procedure_help@lanl.gov">procedure_help@lanl.gov</a> stating your request to cancel a procedure:			
		name of the procedure			
		document control number			
		reason for cancellation.			
Procedure 2. Manager		Forward the email request to cancel or deactivate a procedure to the Responsible Line Manager and the Quality Assurance Team Leader for concurrence.			
	3.	If cancellation or deactivation is approved, process in accordance with procedure EP-DIR-SOP-4001, Document Control.			
Procedure Owner	4.	Complete a PCR Form (Attachment 2), obtain appropriate signatures, and deliver the PCR form and procedure to the Document Control Coordinator for processing.			
3.5 Record	ds				
Procedure Manager	1.	Transmit the records generated by this procedure, including the following, to the Document Control Coordinator for management and control of the procedure and forms until the procedure is superseded, cancelled, or deactivated:			
		Final procedure,			
		Procedure Change Review form,			
		Review and Concurrence form,			
		Procedure Validation Checklist form,			
		Training Level Determination Form, and			
		<ul> <li>any additional documents generated by this procedure.</li> </ul>			
		<b>Note</b> : The procedure package is an active document that is maintained in the Document Control Office until the procedure is superseded, cancelled, or deactivated. Refer to the next step.			
All	2.	Refer to procedure EP-DIR-SOP-4001, Document Control, for more information on final record submittal to the Records Processing Facility.			

## 4.0 PROCESS FLOW CHART

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#### 5.0 ATTACHMENTS

[NOTE: Attachment 2, 3 and 4 are examples, only. Copies of these forms can be obtained from the LANL Conduct of Operations Manual, ISD 315-1, Chapter 16.0, Tier 3 Operations Procedures at this link:

http://policy.lanl.gov/pods/policies.nsf/MainFrameset?ReadForm&DocNum=ISD315-1&FileName=ISD315-1.pdf

Attachment 1 Procedure Request Form

Attachment 2 Procedure Change Review Form
Attachment 3 Review and Concurrence Form
Attachment 4 Procedure Validation Checklist

#### 6.0 REVISION HISTORY

Revision No. [Enter current revision number, beginning with Rev.0]	Effective Date [DCC inserts effective date for revision]	Description of Changes [List specific changes made since the previous revision]	Type of Change [Technical (T) or Editorial (E)]
0	1/4/08	New Document	Е

Using a CRYPTOCard, click here to record "self-study" training to this procedure.

If you do not possess a CRYPTOCard or encounter problems, contact the EP training specialist.

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### **ATTACHMENT 1**

SOP-4007-1

#### PROCEDURE REQUEST FORM



Doc Control Assigned SOP No: **Procedure Request Form** Request Date: **Proposed Procedure Completion Date:** Author/Owner: If needed, new owner assigned by FM: Cancellation New Procedure Revision Deactivation Current No. Procedure Title: Charge Codes: List a brief description of changes: Major Minor Service(s) and Signature Coordination Requested (work you wish Procedure Manager to perform): Requestor number Retrieve electronic document Process/New Template Review & Concurrence Form PCR Form Procedure Validation Checklist Publication Services coordinated by Procedure Development Manager (optional) Peer Review/Comments Due\_\_\_\_\_ Proof Read/Edit List Peer Reviewers: Consideration of additional reviewers: Associate Director Program Director Other: This section to be completed by Procedure Development Manager, only If more than one procedure is included Date procedure package delivered to Sub Assigned: Date provided to Sub: \_\_\_\_\_\_ in this request, ilst to assigned by DCC: in this request, list the numbers Doc Control: \_ Date returned to PDM: \_\_\_\_\_\_ Doc Control #: \_\_\_ Sent final word version Date sent to RFM: \_\_\_\_\_ Supersedes #: \_ Date posted on web:\_ Date sent to Owner: \_\_\_\_\_ Doc Control #: Date procedure notification email sent: Date sent to SME(s):\_\_\_\_ — Supersedes #: \_ Date sent to QA: \_\_\_ \_\_\_\_ Doc Control #: \_ Date sent to ADC: \_\_\_\_\_ Supersedes #: \_\_ Date sent to USQ:\_\_\_\_\_ Date sent to CT:\_\_\_

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ATTACHMENT 2	
SOP-4007-2	Records Use only
PROCEDURE CHANGE REQUEST	Los Alamos NATIONAL LABORATORY

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## Section 16.1 Attachment 3 – Procedure Change Request

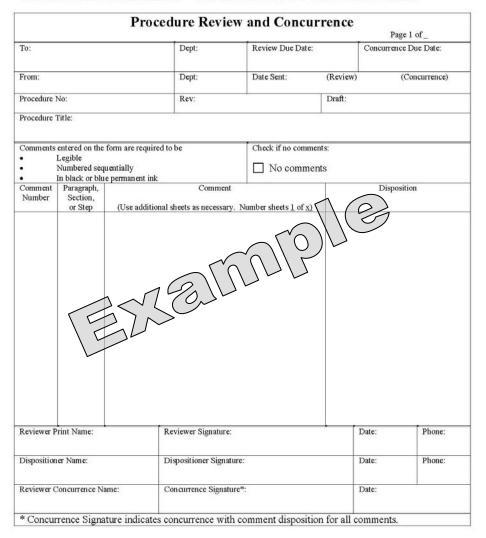
		Procedure Cha	nge Reque	st	· ·
		Section #1 - Typ	e of Request		
Manual/Procedure No. (if	known):			Revis	ion:
Title:					
Detailed description of rec	quested cha	ange (Attach additio	onal sheets if i	needed. Number ad	lditional sheets):
Requestor Signature:		Print Name:		Phone:	Date:
S	section #2 – F	Procedure Owner Supe	rvisor Approval	For Processing	
. See the content of the process of the content of	jor Revision ectivation	☐ Minor Revision☐ Cancellation	on Speci	al Procedure Collup	
Approved Disa		Return to originator) Print Name:	Pri	ority:	Date:
·		Section #3 - Review a	nd Concurrence	e) //	
IPC# IPC	s Incorporate	ed:	$\sim 11^{\circ}$	Affected Pages:	
Other affected facilities or N Review and Concurrence: R needed, on continuation she and non-AB related cancella	eview organ	oval remised for all t	equired); docur echnical proce	des/organizations affect ment additional review dures except minor re red for changes affecti	v organizations, if visions, IPC Rollup,
Department: Print Nas	ne: 1 /	>	, .	Signature:	Date:
CSE USQ Number (As appli	cable):	ADC: Unclas	ssified []	OUO: UCNI [	Classified
		Print Name	V2-12	Signature	
Tratidadina Danaina do		ion #4 - Final Approva			
Validation Required?  ☐ Yes ☐ No		is Authorized to rt 1 of the IWD	Yes No	Periodic Review require Yes	ments Satisfied?
Training Required:  Yes No  Approval Signature:	On the	oom/Briefing	Just-in -Time Required Read Z Number:		Completion of Training rocedure to field Phone:

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# SOP-4007-3 REVIEW AND CONCURRENCE FORM Records Use only LOS Alamos NATIONAL LABORATORY

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#### Section 16.1 Attachment 5 - Procedure Review and Concurrence





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# ATTACHMENT 4 SOP-4007-4 PROCEDURE VALIDATION CHECKLIST Records Use only LOS Alamos NATIONAL LABORATORY

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#### Section 16.1 Attachment 6 - Procedure Validation Checklist

	Validation Checklist				
	eted by the Procedure Orga	7			
Title:	Number:	Rev:	Dr	aft:	
Procedure Writer:	Location:	Phone:			
Date: Return by (date):					
Part #2 To Be Com	pleted by the Procedure Ow	ner			
Group responsible for Validation:	Scope of Procedure Valida	The state of the s	d on this l	Procedi	IIIA.
	☐ Entire Procedure			Waive	
• •					
	Validation Method:				
	alkdown				
	Time Use	I D.			
Owner Signature: Print Name:	11	Date:			
	eted by the Procedure Valid	Villa Control (Control Control Control		1472.57	
Instructions: For each "No" answer, provide comment(s) on con	ment sheet or markup the proced	lure to reflect neces	sary chan	ges.	
Part 3, Section A - User	Compatibility		Yes	No	N/A
Can the instructional steps be performed in sequence as written?					
Does each step provide sufficient detail to complete the activity?		1-6	7		
Are any steps or information omitted that are needed to perform the		H	7		
Are steps - sequential - limited to one action per step where	e possible - easily read & un	lod	4		_
Are required actions and responsibilities clearly defined?	$ \langle A \rangle$				_
Are references to other steps within the procedure correct?	$\sim 40$		_		_
Are instructions to branch to other procedures correct?	AHF		+		
Are tolerances and units of measure provided where needed For time-critical actions, can steps be performed	+		+	-	
If an activity is performed by more than he property	ction provided for communicate	on and coordination	2	_	
	to accomplish a task?	on and coordination	-		_
Section B - Plant			Yes	No	N/A
			100	110	19/20
Are location by the profuse consistent with field instal			_		-
Do specified the instrument of					
Are tools, instruments, or materials needed to complete the task spe			+		
Is necessary personnel protective clothing or equipment specified?	cinet:		+		
Can steps be performed safely (hazards to personnel & equipment	identified)?				
Are protective measures adequate to protect personnel					
Part 3, Section C - ARP/AOP/EOP Validation (M	lark N/A if this section is not ann	licabla)	Yes	No	N/A
	-	ilcaole/	160	.10	14/2
User Compatib	inty				
Are appropriate corrective actions to alarms specified?			1		_
Are entry and exit points clearly specified?	a.a		+		-
Plant Compatib	ility				
Is the correct alarm identification provided (matches the panel alar	m window CRT/PLC display sex	en exactly)?			
Part 4 – To be Comple	ted by the Procedure Valida	itor			
****	Validator's Printed Name:				
Validator's Signature:					
Validator's Signature:  Location: Phone:	•	D-	ite:		