

Conduct of Engineering Request for Variance or Alternate Method

To display the *VAR Request Metadata* pane for this document, click **File > Info > Properties > Show Document Panel.**

1.0 General

1.1 Document Number: VAR-10383	1.2 Revision: 0						
1.3 Brief Descriptive Title: Elimination of CAD Standards for Sketches							
1.4 Affected Program: Engineering Standards	1.5 Request Type: Variance						
1.6a Affected Tech Area 99	1.6b Affected Buildings Sitewide						
1.7 Requestor: Richardson, Michael Joseph Organization: ES-EPD							
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">1.8 Revision History</th> <th style="border-bottom: 1px solid black;">Revision Number</th> <th style="border-bottom: 1px solid black;">Changes and Comments</th> </tr> </thead> <tbody> <tr> <td style="border-bottom: 1px solid black;"></td> <td style="border-bottom: 1px solid black;">0</td> <td style="border-bottom: 1px solid black;">Initial issue.</td> </tr> </tbody> </table>		1.8 Revision History	Revision Number	Changes and Comments		0	Initial issue.
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	0	Initial issue.					

2.0 Affected Conduct of Engineering Program/Documents

<p>2.1 Affected "P" Document: P342 Engineering Standards</p> <p>If against the P document itself, revision (or N/A): N/A</p>	<p>2.2 Subordinate or related document(s) [AP, master spec, LANL ESM chapter & section; or code, Order, standard, etc.]: Document Title/No.: CAD Standards Manual, STD-342-300</p> <p style="margin-left: 20px;">Revision 100, General Requirements, R5</p> <p>Document Title/No.: <i>Enter text..</i></p> <p style="margin-left: 20px;">Revision <i>Enter text..</i></p> <p>Document Title/No.: <i>Enter text..</i></p> <p style="margin-left: 20px;">Revision <i>Enter text..</i></p>
2.3 Section/Paragraph: Section 100/Para 4.0.A.6	
<p>2.4 Specific Requirement(s) as Written in the Document(s):</p> <p>6. CAD-produced sketches shall comply with these sections of the CAD Standards Manual:</p> <ul style="list-style-type: none"> a. Section 103, General Requirements b. Section 201.1, Drawing Sheet Sizes and Format; and 201.5, Grid System c. Section 202, Title Blocks d. Section 204, Plan Orientation e. Section 205, North Arrow Symbol f. Section 206, Partial Plans g. Section 207.2, Drawing Scales h. Section 208, Dimensioning & Leaders i. Section 211, Line Work 	

j. Section 212, Standardization of Text k. Section 213, Sections, Elevations, Details, and Callouts l. Section 214, CAD File Conventions m. Section 301, Symbols.	
2.5 Contractual, preference, or other basis for requirement in 2.4: CAD sketches were required to meet the CAD standards with the understanding that they might be upgraded to technical baseline drawings in the future.	
2.6 Type of VAR from ESM Chap 1, Z10 <i>[Applies only to standards variances]</i> <p style="text-align: center;">Type 1</p>	2.7 Discipline <p style="text-align: center;">CAD</p>

3.0 Request Information & Comments

3.1 NCR required (work has occurred)? No If Yes, NCR Number: Enter text.		
3.2 System/Component Affected OpSystem Acronym & Name N/A System Number or Name [Select SystemNumberOrName]		3.3 Highest ML Level <p style="text-align: center;">ML-1</p>
3.4 Proposal with Justification/Compensatory Measures: Proposal Remove Paragraph 4.0.A.6 along with its sub-requirements. Removal of this section provides the following benefits: <ol style="list-style-type: none"> Sketch packages can be completed faster by eliminating the attention to detail and rigor required to meet the CAD standards. Design review comments and resolutions would be reduced since CAD standards-related comments would be eliminated. <p>This change permits CAD-produced sketches to meet the same drafting requirements as hand-produced sketches. FDARs currently determine when sketches may be used via the ESM Chapter 16 Preliminary Project Determination. FDARs are also responsible for maintaining their technical baseline documents. Removal of Paragraph 4.0.A.6 gives FDARs the option to quickly meet mission requirements via a CAD-produced sketch package with relaxed drawings standards.</p>		
3.5 Attachments Document Title or Description none		
3.6a Project ID <p style="text-align: center;">N/A</p>	3.6b: Project Name <p style="text-align: center;">N/A</p>	3.6c: Code of Record Date <p style="text-align: center;">N/A</p>
3.7 Duration: <p style="text-align: center;">Lifetime</p>	3.8a If Finite Period, Start Date: <p style="text-align: center;">Click to enter a date.</p>	3.8b End Date: <p style="text-align: center;">Click to enter a date</p>
3.8c Provide the PFITS number for tracking removal/correction: [PFITSNum]		
3.9 USQD/USID required (Nuclear, High/Mod Hazard)? No		

If Yes, USQD/USID Number [Click here to enter text.](#)

3.10 QA Review for process change matters potentially affecting LANL's NQA-1 implementation
 Is a QPA Determination required?: **No** If **Yes**, then: [Choose an item.](#)
 QPA Comments: [Enter text..](#)

3.11 POC Determination: **Accept**
 POC Comments: [Enter text..](#)

3.12 Management Program Owner's (SMPO) Approval for P341 and APs; P342, ESM, ML-1 and -2, and Contract Matters; and P343

SMPO Determination: **N/A - Type 1 Variance**
 Comments: [Enter text..](#)

4.0 Participant Signatures **NOTE:** DO NOT ADD NAMES FROM WITHIN WORD! *Save and close the form first, then do 1-4 below:*

1. From the SharePoint library, select the document, then click the **ellipsis (...)** in the second column; a small dialog appears
2. In the small dialog click the **ellipsis** again
3. Click **Edit Properties** and check out the document if prompted to Enter names using the controls provided, then **Save**

4.1 POC (Management Program Owner's Representative): Richardson, Scott C	Organization ES-EPD	Signature
4.2 Facility Design Authority Representative [FDARName] FDAR signature not required <input checked="" type="checkbox"/>	Organization Enter text..	Signature
4.3 LANL Owing Manager (FOD or R&D/Program) [FODorPrgmMgrName] FOD or Program Manager signature not required <input checked="" type="checkbox"/>	Organization Enter text..	Signature
4.4 Quality Reviewer's Name: [QPAName] QPA review/signature not required <input type="checkbox"/>	Organization Enter text.	Signature

<p>4.5 Safety or Security Management Program Owner's Approval for P341 and APs; P342, ESM and Contract Matters; and P343</p> <p>[SMPOName]</p> <p>SMPO signature not required (Type 1 variance) <input checked="" type="checkbox"/></p>	<p>Organization</p> <p>Enter text..</p>	<p>Signature</p>
<p>4.6 Additional Signer 1</p> <p>[AdditionalSigner1]</p> <p>Role: Enter text.</p>	<p>Organization</p> <p>Enter text.</p>	<p>Signature</p>
<p>4.7 Additional Signer 2</p> <p>[AdditionalSigner2]</p> <p>Role: Enter text.</p>	<p>Organization</p> <p>Enter text.</p>	<p>Signature</p>

<p>4.8 CoE Administrator Signature</p> <p>Salazar-Barnes, Christina L</p> <p><u>NOTE:</u> The CoE Admin is always the last signature placed on this document. The date of that signing is the date of this document.</p>	<p>Signature</p>
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