

## 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: <b>VAR-10595</b>	1.2 Revision: <b>0</b>						
1.3 Brief Descriptive Title: <b>Industrial Fan Performance Ratings When Not AMCA Sealed</b>							
1.4 Affected Program: <b>Engineering Standards</b>	1.5 Request Type: <b>Variance</b>						
1.6a Affected Tech Area <b>99</b>	1.6b Affected Buildings <b>Sitewide</b>						
1.7 Requestor: <b>Biggs, Ramona</b> Organization: <b>ES-DE-CON</b>							
<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;"></th> </tr> <tr> <th style="font-size: small; text-align: left;">Revision Number</th> <th style="font-size: small; text-align: left;">Changes and Comments</th> </tr> </thead> <tbody> <tr> <td style="padding-left: 20px;">0</td> <td>Initial issue.</td> </tr> </tbody> </table>		1.8 Revision History		Revision Number	Changes and Comments	0	Initial issue.
1.8 Revision History							
Revision Number	Changes and Comments						
0	Initial issue.						

### 2.0 Affected Conduct of Engineering Program/Documents

<p>2.1 Affected "P" Document: <b>P342 Engineering Standards</b></p> <p>If against the P document itself, revision (or <b>N/A</b>): <b>N/A</b></p>	<p>2.2 Subordinate or related document(s) [AP, master spec, LANL ESM chapter &amp; section; or code, Order, standard, etc.]: <b>Document Title/No.: ESM Ch 6 Mechanical, Section D30 Heating, Cooling, HVAC Distribution, and TAB</b></p> <p style="padding-left: 20px;"><b>Revision 6</b></p> <p>Document Title/No.: <i>Enter text..</i></p> <p style="padding-left: 20px;"><i>Revision Enter text..</i></p> <p>Document Title/No.: <i>Enter text..</i></p> <p style="padding-left: 20px;"><i>Revision Enter text..</i></p>
2.3 Section/Paragraph: <b>Section D30, Subsection D3050; Article 5.0 - Fans, requirement B</b>	
2.4 Specific Requirement(s) as Written in the Document(s): <b>Provide fans that bear the Air Movement and Control Association (AMCA) seal. (Requirement 6-0181)</b>	
2.5 Contractual, preference, or other basis for requirement in 2.4: <b>The basis for the D30 requirement (6-0181) states: "The AMCA seal assures that the product line has been tested to the appropriate AMCA standards and the manufacturer's cataloged ratings have been submitted to AMCA for approval before publication."</b>	

2.6 Type of VAR from ESM Chap 1, Z10 [ <i>Applies only to standards variances</i> )  <p style="text-align: center;">Type 2</p>	2.7 Discipline  <p style="text-align: center;">Mechanical</p>

### 3.0 Request Information & Comments

3.1 NCR required (work has occurred)? <b>No</b> If Yes, NCR Number: <a href="#">Enter text.</a>		
3.2 System/Component Affected OpSystem Acronym & Name <b>VNT - Ventilation</b> System Number or Name <b>HVAC</b>	3.3 Highest ML Level  <p style="text-align: center;">ML-1</p>	
3.4 Proposal with Justification/Compensatory Measures: <a href="#">Proposal</a> Change requirement in D30 to:  Provide fans that bear the Air Movement and Control Association (AMCA) seal (Requirement 6-0181). For fans that do not bear an AMCA seal, specify performance data, sound data, and balance quality data for fan being provided. Project specification shall require formal submittals for these data.  <u>Justification</u> The AMCA certification is a qualification process and does not validate the performance of a supplied fan. To bear the AMCA seal, AMCA selects "one" sample fan from the manufacturer's product line being submitted for certification testing. AMCA then compares the result against the submitted data. If this test fan is within tolerance, the fan whole fan product range is certified for three years.  For many fans, it is not possible to have the AMCA label because the mfg. many times modifies the fans geometrically. In place of the AMCA certification the fans are field performance tested and verified to meet the design point of operation.		
3.5 Attachments n/a Enter text... Enter text... Enter text... Enter text...		
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;"><a href="#">Click to enter a date.</a></p>	3.8b End Date: <p style="text-align: center;"><a href="#">Click to enter a date</a></p>
3.8c Provide the PFITS number for tracking removal/correction: <a href="#">[PFITSNum]</a>		
3.9 USQD/USID required (Nuclear, High/Mod Hazard)? <b>No</b> If Yes, USQD/USID Number <a href="#">Click here to enter text.</a>		

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: **Accept**

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):  <a href="#">Ladach, Michael J</a> POC	Organization <b>ES-WPD</b>	Signature
4.2 Facility Design Authority Representative  [FDARName] FDAR signature not required <input checked="" type="checkbox"/>	Organization <a href="#">Enter text..</a>	Signature
4.3 LANL Owning Manager (FOD or R&D/Program)  [FODorPrgmMgrName] FOD or Program Manager signature not required <input checked="" type="checkbox"/>	Organization <a href="#">Enter text..</a>	Signature
4.4 Quality Reviewer's Name:  [QPAName] QPA review/signature not required <input checked="" type="checkbox"/>	Organization <a href="#">Enter text.</a>	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><b>Richardson, Michael Joseph</b></p> <p>SMPO signature not required (Type 1 variance) <input type="checkbox"/></p>	<p>Organization</p> <p><b>ES-DO</b></p>	<p>Signature</p>
<p>4.6 Additional Signer 1</p> <p>[AdditionalSigner1]</p> <p>Role: <b>Enter text.</b></p>	<p>Organization</p> <p><b>Enter text.</b></p>	<p>Signature</p>
<p>4.7 Additional Signer 2</p> <p>[AdditionalSigner2]</p> <p>Role: <b>Enter text.</b></p>	<p>Organization</p> <p><b>Enter text.</b></p>	<p>Signature</p>
<p>4.8 CoE Administrator Signature</p> <p><b>Leyba, Matthew Anthony</b></p> <p><b>NOTE:</b> 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>	