



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-10251		1.2 Revision: 0	
1.3 Brief Descriptive Title: Lift Station Placement			
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: Hilderbrand, Jake Organization: ES-EPD			
1.8 Revision History			
Revision Number	Changes and Comments		
0	Initial issue.		

2.0 Affected Conduct of Engineering Program/Documents

2.1 Affected "P" Document: P342 Engineering Standards		2.2 Subordinate or related document(s) [AP, master spec, LANL ESM chapter & section; or code, Order, standard, etc.]: Document Title/No.: LANL ESM Chapter 3 Civil, Section G30 Site Civil/Mechanical Utilities	
If against the P document itself, revision (or <i>N/A</i>): N/A		Revision 3 Document Title/No.: LANL Master Specification Section 22 1343.16, Facility Wet-Well Packaged Sewage Pumping Stations (Interior)	
		Revision 2 Document Title/No.: Enter text..	
		Revision Enter text..	
2.3 Section/Paragraph: Section 4.0, F			
2.4 Specific Requirement(s) as Written in the Document(s): Locate lift station inside of building when serving one building.			
2.5 Contractual, preference, or other basis for requirement in 2.4: Locating a wet-well packaged lift station inside a building is preferred in certain cases; some past exterior installations caused maintenance issues due to extreme depths.			
2.6 Type of VAR from ESM Chap 1, Z10 [Applies only to standards variances) Type 2		2.7 Discipline Civil	

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 SS_Sanitary Sewer System Number or Name N/A		3.3 Highest ML Level ML-4
3.4 Proposal with Justification/Compensatory Measures: Proposal: Be able to locate a wet-well packaged lift station for a single building either interior or exterior to the building. The requirement for the placement of the lift station interior to the building as stated in ESM Chapter 3 is being changed as shown in Attachment 1 – <i>Mark up of Approved Change for ESM Chapter 3</i> . In addition, Civil POC written permission to install exterior is required. Justification: Per manufacturer’s instructions, wet-well packaged lift stations can be installed either interior or exterior to the building. The LANL preference for interior installation was based on some bad experience with past exterior installations which caused maintenance issues due to extreme depths. Exterior installation is acceptable so long as the location and invert elevation is reasonable and controlled by the Civil POC. Other Impacts/Actions LANL Master Specification Section 22 1343.16, <i>Facility Wet-Well Packaged Sewage Pumping Stations (Interior)</i> , paragraph 3.1.A states “Install pumps, basin, and equipment in accordance with manufacturer’s instructions and Subcontract Drawings”. As such it does not require significant revision beyond the title’s use of “Interior” and perhaps the listing of additional suitable models and an author note to discuss exterior installations not necessarily using 33 3200, <i>Wastewater Utility Pumping Stations</i> . Projects may so revise until such time as the spec is revised.		
3.5 Attachments Document Title or Description Attachment 1 – Mark up of Approved Change for ESM Chapter 3		
3.6a Project ID N/A	3.6b: Project Name N/A	3.6c: Code of Record Date N/A
3.7 Duration: Lifetime	3.8a If Finite Period, Start Date: Click to enter a date.	3.8b End Date: Click to enter a date
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: **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**

<p>4.1 POC (Management Program Owner's Representative):</p> <p>Begay, Joshua Ray</p>	<p>Organization ES-UI</p>	<p>Signature</p>
<p>4.2 Facility Design Authority Representative</p> <p>[FDARName]</p> <p>FDAR signature not required <input checked="" type="checkbox"/></p>	<p>Organization Enter text..</p>	<p>Signature</p>
<p>4.3 LANL Owing Manager (FOD or R&D/Program)</p> <p>[FODorPrgmMgrName]</p> <p>FOD or Program Manager signature not required <input checked="" type="checkbox"/></p>	<p>Organization Enter text..</p>	<p>Signature</p>
<p>4.4 Quality Reviewer's Name:</p> <p>[QPAName]</p> <p>QPA review/signature not required <input checked="" type="checkbox"/></p>	<p>Organization Enter text.</p>	<p>Signature</p>
<p>4.5 Safety or Security Management Program Owner's Approval for P341 and APs; P342, ESM and Contract Matters; and P343</p> <p>Streit, Jim</p> <p>SMPO signature not required (Type 1 variance) <input type="checkbox"/></p>	<p>Organization ES-DO</p>	<p>Signature</p>

<p>4.6 Additional Signer 1</p> <p>Ladach, Michael J</p> <p>Role:</p>	<p>Organization</p> <p>ES-EPD</p>	<p>Signature</p>
<p>4.7 Additional Signer 2</p> <p>O'Brien, John Henry</p> <p>Role: Civil POC</p>	<p>Organization</p> <p>ES-UI</p>	<p>Signature</p>

<p>4.8 CoE Administrator Signature</p> <p>Salazar-Barnes, Christina L</p> <p>NOTE: 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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