



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

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|---|---|
| 1.1 Document Number: VAR-10326 | 1.2 Revision: 0 |
| 1.3 Brief Descriptive Title: Form 2033 Approvals for Safety Basis and Nuclear Criticality Safety Divisions Approvals for Safety Basis and Nuclear Criticality Safety Divisions | |
| 1.4 Affected Program: Engineering Standards | 1.5 Request Type: Alternate Method |
| 1.6a Affected Tech Area 99 | 1.6b Affected Buildings Sitewide |
| 1.7 Requestor: Smith, Gregory David Organization: SB-TS | |
| 1.8 Revision History | |
| Revision Number | Changes and Comments |
| 0 | Initial issue. |

2.0 Affected Conduct of Engineering Program/Documents

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|--|---|
| 2.1 Affected "P" Document: P342 Engineering Standards If against the P document itself, revision (or N/A): N/A | 2.2 Subordinate or related document(s) [AP, master spec, LANL ESM chapter & section; or code, Order, standard, etc.]: Document Title/No.: Engineering Standards Manual STD-342-100 Chapter 21 Software Section SOFT-GEN [reference to Form 2033 Safety/Non-Safety Software Determination, Categorization, and Software Risk Level (SRL)] Revision SOFT-GEN r1; Form dated 5/2016 Document Title/No.: Enter text.. Revision Enter text.. Document Title/No.: Enter text.. Revision Enter text.. |
| 2.3 Section/Paragraph: Form Section 5.3 (approvals) | |
| 2.4 Specific Requirement(s) as Written in the Document(s): Excerpts related to RAD approval: "As the <input type="checkbox"/> Facility Design Authority Representative (FDAR) for my representative facilities, as the <input type="checkbox"/> LANL Design Authority (DA), or, as the <input type="checkbox"/> Responsible Associate Director (RAD), I have reviewed and approve... Note: The RAD is authorized to review and approve Form 2033 (rather than the FDAR or DA) for software, as determined by the FDAR or DA, the FDAR or DA does not have the knowledge and/or a reasonable connection to the software." | |

Guidance (backside): "...The RAD is authorized to review and approve Form 2033 (rather than the FDAR or DA) for software where, as determined by the FDAR or DA, the FDAR or DA does not have the knowledge or a reasonable connection to the software."

2.5 Contractual, preference, or other basis for requirement in 2.4:

Form approvers are a LANL preference. According to the form's IQPA author, part of the logic to have the DA approve was to drive consistency and correctness. P1040, a peer document to Chapter 21 for non-facility software, offers "enterprise systems such as payroll" as an example of lack of DA/FDAR knowledge and/or a reasonable connection to the software.

2.6 Type of VAR from ESM Chap 1, Z10 [*Applies only to standards variances*])

Type 2

2.7 Discipline

Safety Basis

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 **N/A**

3.3 Highest ML Level

ML-1

3.4 Proposal with Justification/Compensatory Measures:

Allow the Senior Director of the Nuclear Safety Program authority to review and approve Form 2033s generated by the Safety Basis and Nuclear Criticality Safety Divisions. This position has the requisite knowledge of such software's potential nuclear safety role and an interest in ensuring that the inputs for engineering calculations/design have sound SQA pedigree. In this regard, the position is comparable to that of the former Responsible Associate Director position (now called Responsible Associate Laboratory Director). When this VAR is issued and employed, the practice of citing "per VAR-10326" with the approval signature will provide a tie to this authorization but is not mandatory (furthermore, incorporation of this VAR into affected document[s] would render this practice unnecessary). [Enter text.](#)

3.5 Attachments

Document Title or Description **None**

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**

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| 4.1 POC (Management Program Owner's Representative): Oruch, Tobin H | Organization ES-FE | Signature |
| 4.2 Facility Design Authority Representative [FDARName] FDAR signature not required <input checked="" type="checkbox"/> | Organization Enter text.. | Signature |
| 4.3 LANL Owning 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 checked="" type="checkbox"/> | Organization Enter text.. | Signature |
| 4.5 Safety or Security Management Program Owner's Approval for P341 and APs; P342, ESM and Contract Matters; and P343 Streit, Jim SMPO signature not required (Type 1 variance) <input type="checkbox"/> | Organization ES-DO | Signature |

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| <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> |

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| <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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