



**Conduct of Engineering
Request for Variance or Alternate Method**

Assigned by SMPO or SMPOR: Alternate Method Variance Tracking number VAR- 16-004

1.0 Affected Document(s)

<input type="checkbox"/> Engineering Processes (e.g., P 341) <input checked="" type="checkbox"/> Engineering Standards (e.g., P 342) <input type="checkbox"/> Engineering Training & Qualification (e.g., P 343)	Subordinate (Functional Series) document if applicable (ESM Chapter, Master Spec, AP, etc.): Document Title/Number: <u>Master Spec Section 26 0533</u> Revision: <u>6</u>
If against P documents themselves, revision: _____	

Section/Para
Section 43.4.A.1.c and d, and associated standard details;

Specific Requirement(s) as Written in the Document(s)
Section 3.4.A.1.c: Grade ducts to drain a minimum of 4 inches per 100 feet to manholes, hand-holes, or drainage point.
Section 3.4.A.1.d on page 12 says: Align and support ducts to prevent trapping moisture at any point.

2.0 Request

Brief descriptive title: Underground Fire Alarm; Trench & Conduit Design				
NCR required (work has occurred)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If Yes, NCR Number		
TA-Bldg-(Room) and/or Project Affected Lab wide		System/Component Affected Trenching slope and conduit drainage.		
Proposal Waive the requirements as stated in the specification and construct as indicated on the drawings.				
Justification/Compensatory Measures The requirements for the trench slope and drainage of the conduit was considered by the responsible engineer at during the design. There is no consensus code or standard requiring these attributes. Based on minimal risk to the functionality and reliability of the wires to be placed in the conduit, it was judged that the design was technically adequate without imposing these requirements.				
Duration of Request:	Start Date:	End Date:	<input checked="" type="checkbox"/> Lifetime	
Requestor Jim Tsiagkouris	Z Number 108056	Organization ES-EPD	Signature Signature on file	Date 11/18/15
USQD/USID required (Nucl. High/Mod Hazard)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If Yes, USQD/USID Number		
Design Authority Representative	Z Number	Organization	Signature	Date
LANL Owinging Manager (FOD or Programmatic)	Z Number	Organization	Signature	Date

3.0 Safety Management Program Owner (SMPO) Representative (SMPOR/POC)

<input type="checkbox"/> Decline <input type="checkbox"/> Accept <input checked="" type="checkbox"/> Accept Labwide <input type="checkbox"/> with Modification:			
POC Eric Stromberg	Z Number 286628	Signature Signature on file	Date 18Nov2015

4.0 Additional Approval for P341 and APs; P342, ESM, Code, and Regulation Matters; and P343

<input type="checkbox"/> Accepted <input type="checkbox"/> Accepted with comments <input type="checkbox"/> Declined			
Comments: Safety or Security Management Program Owner N/A for specification issues.			
	Z Number	Signature	Date