 <b>SMUD<sup>®</sup></b>	<b>TECHNICAL PROCEDURE</b>	No. <b>TP0602</b> Page 1 of 4	
		REV 0	DATE: 09/20
CATEGORY <p style="text-align: center;"><b>UNDERGROUND STRUCTURES</b></p>			
SUBJECT <p style="text-align: center;"><b>GUIDELINES FOR EXCAVATION, DRILLING, OR BORING IN PROXIMITY OF SMUD'S 100kV AND LOWER UNDERGROUND DISTRIBUTION LINES</b></p>			

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## 1 Purpose


This document is intended to be a guide for use by third parties who plan on performing excavation activities within ten (10) feet of SMUD 100kV and lower underground distribution lines. These underground distribution lines, belonging to SMUD, are identified as "High Priority Subsurface Installations" and are covered under California Government Codes.

## 2 References

California Government Code           Section 4216  
USA North's Excavation Manual

## 3 Minimum requirements

- 3.1 Work in proximity of underground electric distribution lines belonging to the Sacramento Municipal Utility District (SMUD) is regulated under "USA North's California Excavation Manual".
- 3.2 SMUD will provide the approximate location of its distribution line(s) to the extent and degree of accuracy that the information is available. Approximate location does not indicate depth. The Contractor shall determine the exact location of the SMUD line(s). The Contractor shall use hand tools to determine the exact location of SMUD line(s).
- 3.3 ALL work within ten (10) feet of the underground distribution line(s) shall be in the presence of a SMUD Inspector (or a SMUD Qualified Electrical Worker) prior to the start of work. A 72-hour advance notice is required. Please contact SMUD Inspection Services at (916) 732-4990 to schedule for inspections.
- 3.4 When excavating within ten (10) feet of underground distribution lines, the contractor shall hand expose the SMUD line prior to using power equipment. Hand-power tools may be used to remove street asphalt.
- 3.5 When excavating within two(2) feet, the contractor shall hand expose and protect the SMUD line prior to construction.
- 3.6 The bottom surface of a SMUD distribution line shall be hand exposed and protected prior to any excavation, drilling or boring under a SMUD line.
- 3.7 It is the Contractor's responsibility to plan and execute its work such that SMUD facilities are not damaged in any way. If the Contractor does not comply with the Law or SMUD requirements and damages SMUD facilities all damage shall be repaired at the Contractor's sole expense. This includes: all SMUD expenses necessary to repair its facilities including emergency repairs, environmental cleanup, asbestos, and lead abatement.

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- 3.8 Excavation under concrete encasements or conduits shall be minimized to limit the unsupported length of the encasement or conduits. Shoring of the encasement or conduits may be required depending upon the extent of the work. All shoring shall maintain soil pressure when in place. SMUD may require the Contractor to submit a shoring plan. Shoring plan submittals will be determined by SMUD on a case-by-case basis. Additional safeguards may be required for direct buried lines and will be determined on a case-by-case basis.
- 3.9 Twelve (12) inches of clearance shall be maintained from all SMUD lines, duct banks, or direct buried conduits to any installed facilities crossing SMUD facilities. Three (3) feet of clearance shall be maintained from all SMUD lines, duct banks, or direct buried conduits for all installed facilities running parallel to SMUD facilities.
- 3.10 Joints for wet utilities, conduits, etc., shall be at least three (3) feet from the vertical edge of the line, duct bank, or direct buried pipe.
- 3.11 Backfill within three (3) feet of the vertical edge of the duct bank or direct buried conduits, above the direct buried conduits, and any void created as a result of tunneling under a SMUD facility shall be 2-sack sand-slurry. Any warning tape that is removed shall be replaced in kind. NO mechanical compaction equipment shall be allowed in this area. Changes to this requirement to meet County or City requirements must be approved by the SMUD.
- 3.12 Additional safeguards to protect SMUD facilities may be required if warranted by site conditions. SMUD will notify the Contractor's site supervisor immediately if additional safeguards are required.
- 3.13 In addition to the above, the customer and/or their representatives or contractors SHALL NOT ENTER any SMUD vault, manhole, or other SMUD facility that contains energized equipment, except in the presence of a SMUD representative. Please call Ryan Pedone at (916) 732-7296 or mobile at (916) 425-3037 to schedule access. 72-hours advance notice is required.

#### **4 Related California Government Codes**

It is the responsibility of the user of this document to ensure that they are complying with current and applicable California law. For example, the most pertinent section is California Government Code Section 4216, which you can view at <http://leginfo.legislature.ca.gov/>.