

## Cross Bore Prevention Requirements

### SUMMARY

This utility bulletin provides guidance for performing inspections before, during, and after dry boring activities at Pacific Gas and Electric (PG&E or Company) facilities to prevent cross bores.

Gas general construction personnel (GC) system-wide and gas maintenance and construction personnel (M&C) within San Francisco have been adhering to these requirements since October 1, 2014.

This bulletin is effective for work performed by all PG&E gas crews and contractors (including electric work) upon being tailboarded or no later than 45 days following publication.

### AFFECTED DOCUMENT

TD-4412P-05, "Excavation Procedures for Damage Prevention"

### TARGET AUDIENCE

Company personnel and contractors performing dry boring construction activities.

### WHAT YOU NEED TO KNOW

The following steps replace: TD-4412P-05, Section 8 and TD-4412P-05, Attachment 3. TD-4412P-05-F01 will no longer be used after this bulletin is tailboarded.

#### 1 Pre-Construction Sewer Locate Confirmation

##### NOTE

Because many sewer and storm drain facility owners are not members of Underground Service Alert (USA), sewer and storm drain locates are required for identification of facility locations.

- 1.1 Sewer and storm drain facilities must be located and marked on the ground by a PG&E approved sewer inspection contractor so that PG&E and contract crews are aware of all underground utilities, facilities, or structures. Also to identify:

- Any pre-existing damage which can be documented
- Any branches in the sewer so that they can also be located

#### 2 Daylighting (Potholing) After the Sewer and Storm Drain Facilities Are Located

- 2.1 Ensure the USA ticket is valid for the excavation before beginning construction.
- 2.2 Ensure that PG&E maps are checked to confirm locations of Company valves and appurtenances.

## Cross Bore Prevention Requirements

- 2.3 Lay out the bore path on the ground and identify locations where they cross a sewer, storm drain facility, other utility, facility or structure.
- 2.4 Daylight (pothole) crossings of ALL known facilities or structures within 2 feet of the bore path.
  - IF the sewer or storm drain facility is at a different elevation than the bore path, THEN the area must be exposed to depth at least 2 feet deeper than the bore or facility (whichever is higher).
- 3 **Observe Potholes During Construction**
- 3.1 During construction watch the potholed locations to ensure that no damage is caused to other facilities.
- 4 **Post-Construction Camera Inspection**
- 4.1 PG&E approved sewer inspection contractor:
  1. Perform a post-construction camera inspection to document the "as-left" condition of the site.
  2. Document the inspection on TD-4412B-012-F01, "Cross Bore Prevention Log"
- 4.2 On completion, submit the log and video to the GC field engineer OR M&C construction supervisor.
- 4.3 The GC field engineer OR M&C clerk includes the log and the video in the job package for retention.
- 5 **Performing Camera Inspections**
- 5.1 Pre-construction and post-construction video inspection are required for all dry-bore pipeline installations except:
  - Single Unplanned Service - indicate "Unplanned Service" on TD-4412B-012-F01. In this case, **only** a post-construction camera inspection is required within 24-hours.
  - Pre-construction locate confirms no facilities within 5 feet of bore path. Indicate "Path Clear" on TD-4412B-012-F01. In this case, **no** post-construction camera inspection is required.
- 5.1 Contact local sourcing specialist for a list of PG&E approved sewer camera and inspection contractor.
- 5.2 Contact an approved PG&E vendor to perform sewer and storm drain locates AND camera inspections.



## Cross Bore Prevention Requirements

- 5.3 IF any damage or intrusion is indicated on the pre-construction inspection,  
THEN the GC field engineer OR M&C construction supervisor must notify the sewer or storm  
drain facility owner.
- 5.4 IF any damage or intrusion is indicated on the post-construction inspection,  
THEN perform the following;
1. Follow all Company procedures for damage to underground utilities, facilities or  
structures, including but not limited to the following documents:
    - TD-4020P-01, "Gas Operations Corrective Action program (CAP)  
Implementation"
    - TD-5811P-501, "Dig-In Investigation"
    - SHC 101 – Property Damage and Third Party Injuries
    - SHC 102 – Evidence Acquisition and Storage
  2. Notify the sewer or storm drain facility owner AND remove any gas utility intrusion.
- OTHERWISE retain the inspection video and log for retention. See Step 4.2 or 4.3.

### DOCUMENT APPROVER

Lenny Caldwell, Manager, Gas Methods and Procedures

### DOCUMENT CONTACT

Patrick Symons, Senior Specialist, Gas Methods and Procedures

### INCLUSION PLAN

This bulletin will be cancelled upon revision of TD-4412P-05, "Excavation Procedures for  
Damage Prevention," and publication of an independent cross bore prevention procedure.

**Gallinger, Lindsay**

**From:** Brem, Eric  
**Sent:** Wednesday, November 18, 2015 7:59 AM  
**To:** Gallinger, Lindsay  
**Subject:** FW: core bore information

**From:** Penate, Mary C  
**Sent:** Wednesday, November 18, 2015 7:49 AM  
**To:** Vergara Zaldivar, Luis  
**Cc:** Brem, Eric; Lear, Carlton; Tarter, Janetta  
**Subject:** RE: core bore information

Good Morning Luis,

Attached are the list of vendors:

Contractor	MSA Number	Contact Name/Owner	Email Address	Phone	Address	City
ARB, Inc.	4400007642	George Castellano	<a href="mailto:contractssf@arbinc.com">contractssf@arbinc.com</a>	(415) 206-1015	26000 Commercentre Dr.	Lake Fores
Arrow Drillers Inc. DBA Arrow Construction	4400007634	Sal Rivera	<a href="mailto:rivera@arrowcon.com">rivera@arrowcon.com</a>	(916) 640-0600	1850 Diesel Drive	Sacrament
MDR, Inc. DBA Accu-Bore Directional Drilling	4400007633	Erich Metzger	<a href="mailto:emetzger@accu-bore.com">emetzger@accu-bore.com</a>	(925) 980-7212	P.O. Box 940	Roseville
Michels Corporation DBA Michels Pipeline Construction	4400007760	Ben Nelson	<a href="mailto:bnelson@michels.us">bnelson@michels.us</a>	(206) 510-6164	817 West Main Street	Brownsville
Vulcan Construction & Maintenance, Inc.	4400009446	Robert Flores	<a href="mailto:bob@vulcan-construction.com">bob@vulcan-construction.com</a>	(559) 265-4711	130 S. West Avenue	Fresno

**From:** Lear, Carlton  
**Sent:** Tuesday, November 17, 2015 8:43 AM  
**To:** Tarter, Janetta; Penate, Mary C  
**Cc:** Brem, Eric; Vergara Zaldivar, Luis  
**Subject:** RE: core bore information

Janetta, Mary,

Could either of you please assist with this request?

Thank you,