ACTIVITIES WITH POTENTIAL TO CONTACT ENERGIZED SUB-SURFACE ELECTRIC INSTALLATIONS

OVERVIEW

This GEHSI gives guidance on the proper selection and use of personal equipment for use in specific construction activities with potential to contact sub-grade electric utility infrastructure. This GEHSI is used in the development of hazard assessments for the company and contractor-performed tasks listed on the included table. Company employees and Company contractors must be authorized by the responsible operating organization to perform these tasks and trained as applicable.

GENERAL PROTECTIVE REQUIREMENTS

All equipment selection, use, and training are based on the documented hazard assessment for each task.

All equipment cited in this document will be used in addition to the equipment otherwise required for any listed task.

DAMAGED EQUIPMENT OBSERVATION / NOTIFICATION

Report all identified cable or joint abnormalities/defects to the Electric Operations Control Room of the appropriate territory/region or facility. After reporting the condition to the Electric Operations Control Room, notify the local supervisor and EH&S representative. Electric Operations will evaluate the reported condition and determine the appropriate action/response. All work in the area of the reported abnormality must stop immediately and sufficient work area protection maintained until an Electric Operations representative(s) determines the required response (see Con Edison specification EO-1184, Identifying Cable and Splice Abnormalities on Distribution Feeders). Examples of reportable abnormalities/defects include: oil leaking from cable or joints, damaged cable of joints, hot localized surface temperatures on cable or joints, swollen joints, exposed copper, improper racking conditions, and broken/damaged conduits that could potentially house damaged distribution cable. Any condition found on a cable or joint that is not listed above, but is suspected of being an indication of a defect/abnormality, should be reported to the Electric Operations Control Room for the appropriate action/response.

Personal Equipment Matrix for Activities with Potential to Damage Sub-surface Electric Installations[a]

	Task	Class 0 Gloves	FR Clothing	FR Hood	Blast Goggles	Face Shield	Safety Glasses
1	Pavement breaking	Y	N				Y
2	Breaking out concrete encased duct	Y	Y				Y
3	Moving energized primary cables that are located inside a structure, or outside structure while in proximity to joints	Y	Y	Y	Y		
4	Moving primary cables outside structure (no joints involved)	Y	Y				Y
5	Moving energized secondary cables	Y	Y				Y
6	Hand excavate to locate pre cast ducts	N	N				Y
7	Hand excavate to locate direct buried cables	Y	Y				Y
8	Removing cable from conduit	Y	Y				Y
9	Breaking structure for POE from outside/inside	Y	Y			Y	Y
10	Breaking sub-structure walls	Y	Y				Y
11	Pulling cable/rope within structure with energized cable	Y	Y				Y
12	Pulling cable within enclosed spaces	Y	Y				Y
13	Pulling rope in enclosed spaces	Y	Y				Y
14	Benching cable	Y	Y				Y
15	Breaking out unknown precast electric duct	Y	Y				Y
16	Barholing	Y	N				Y
17	Pogoing	Y	N				N
18	Using digging bar near electric facility	Y	N				N
19	Using digging bar over direct buried cables	Y	Y				Y
20	Using pneumatic clay digger in vicinity of electric facility	Y	Y				Y
21	Installing forms for field-constructed sub-surface structures from inside the designed footprint when connected cables are present	Y	Y				Y
22	Installing forms for field-constructed subsurface structures from outside the designed footprint when connected cables are present	N	N				Y
23	Installing forms for field-constructed subsurface structure prior to first energization of new cables	N	N				Y
24	Saw cutting operation	Y	N				Y
25	Hand excavate to locate cable fault	Y	Y				Y
26	Hand excavating to find service dead leg	Y	Y				Y
27	Removing underground silo	Y	Y				Y
28	Regrade	Y	N				Y
29	Build/remove shunt box w/ energized cable inside	Y	Y				Y

[a] Listed items are in addition to all typical protective and garment requirements. Class 0 gloves are sufficient protection for the tasks listed above for both primary and secondary work. Follow Company specifications and procedures when moving energized primary cables (i.e. use of pot ropes, nylon slings, etc.)

REVISION HISTORY

Revision Date	Revision #	Summary of Change	Author
01/29/2014	1	Updated Pogoing job task (on Personal Equipment Matrix) to require 100% natural fiber clothing and no safety glasses.	W. Suggs
6/26/2014	2	Periodic review completed; Personal Equipment Matrix - Added item 19 and changed PPE requirements on items 16 and 18 based on Gas Ops Hazard Assessments.	W.K. Capune