



CARIBBEAN UTILITIES COMPANY, LIMITED

TRANSMISSION AND DISTRIBUTION DIVISION

P.O. Box 38GT, Grand Cayman, Cayman Islands B.W.I.
Telephone: 345-949-5200 Fax: 345-949-5203

WORKING NEAR POWER LINES

GUIDELINES TO PERFORM WORK

(1) The limits of approach in O.S.H. Std. 217, Table 1 must be maintained at all times when working near power lines. If there will be any inadvertent movement of persons or equipment within the 16 ft range for 13 kv or 25 ft for 69kv , additional safeguards will have to be taken to ensure this safe limit is maintained at all times, including the following steps:

- a) Restrict entry into the area where equipment is engaged in the work near the power line.
- b) Designate a safety watcher, who will be responsible for: i) Keeping communications with equipment operator to signal when equipment is reaching limits of approach. ii) Preventing persons other than the equipment operator from touching any part of the equipment or the material being moved by it.
- c) Require the equipment operator to operate the controls from the seat provided on the equipment, or from a metal stand that is integral with the frame of the equipment and clear of the ground, or from a metallic mat bonded to the frame of the machine and located on the ground beside the machine.
- a) The equipment must be bonded to a suitable ground electrode or system neutral.

OSH Standard No. 217

Table 1: Absolute Limits of Approach

Voltage Phase to Phase	Minimum distance Feet
Over 600 V to 13Kv	10
Over 13Kv to 69Kv	16

WORK CANNOT BE PERFORMED WITHIN THE SAFE LIMITS

Where limits of approach cannot be maintained as required by OSH Standard 217 above, the electrical equipment and/or conductors will have to be isolated and grounded as per CUC Safe Work Methods Practices. This will require prior planning and approval. CUC will require 10 working days of notification in advance to allow for the planning required to notify customers, prepare switching procedure and schedule the work to isolate the line or equipment. Failure to provide proper notification will result in delays of the work proceeding.

CUC work practices require the following steps:

- 1) A protection guarantee procedure be put in place prior to the commencement of work, this will include steps to isolate section of line in the area where equipment is required to work.
- 2) The location of the points of isolation will be reviewed with the onsite supervisor for the contractor. The points of isolation will be shown on a diagram attached to the CUC Notice of Project Permit Form.
- 3) Before clearance is given to the Contractor On Site Supervisor to proceed with work, the Contractor On Site Supervisor will be required to sign the Notice of Project Permit Form to confirm that a tailboard discussion has been held with the contractor, where the electrical hazards were identified and the barriers that were put in place to control the electrical hazard by de energizing the line and installing isolation grounds. After completion of these steps work can proceed.
- 4) After completion of work by the contractor, the Contractor On Site Supervisor will confirm to CUC personnel that all workers and equipment are clear the line and sign the Notice of Project Permit Form, authorizing CUC to re-energize the line.



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- 5) Where any equipment used during isolation is required to be in between or in contact with the de-energized lines, an additional cover up must be performed by CUC deemed qualified personnel. This is to ensure protection of CUC cables in case of accidental chaffing. Also erecting and retracting through CUC lines must be supervised by CUC personnel.

EMERGENCY WORK PROCEDURES

Where Emergency Procedures are required, Caribbean Utilities Co. Ltd. **must be notified immediately** to establish precautions that must be taken to control the hazards including the following steps:

- 1) Taking immediate steps to protect any worker or equipment that may have inadvertently encroached within the 10ft limits of approach, this will include having the line de-energized if necessary.
- 2) Creating a protection guarantee to isolate the section of line where the emergency exists.
- 3) If the emergency involves a contractor doing work, the Contractor On Site Supervisor will be required to sign the Project Form to confirm that a tailboard discussion has been held with the contractor, where the electrical hazards were identified and the barriers that were put in place to control the electrical hazard by de-energizing the line and installing isolation grounds. After completion of these steps work can proceed.
- 4) After completion of work by the contractor, the Contractor On Site Supervisor will confirm to CUC personnel that all workers and equipment are clear the line and sign the Notice of Project Permit, authorizing CUC to re-energize the line.

FAILURE TO FOLLOW TO PROCEDURES

Contractors or others who fail to follow the above procedures are placing themselves and their workers at risk of serious if not fatal injury. Should CUC staff find situations in the field whereby work is proceeding without a CUC Notice Of Project Permit, an immediate stop order will be placed on the project until the notice of Project Permit has been put in place. If the Notice Of Project Permit is in place but the guidelines are not being followed, again a stop order will be placed on the project until guidelines outlined in the Notice Of Project Permit are followed. Notification of the stop orders will be forwarded to Department of Labour, Government of Grand Cayman.

Presented by: _____
C.U.C. Representative Date

Received by: _____
Contractor Authorised Representative

Comments: _____

