

Safe Work Practices



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| Title: Hot Stick 34.5/46 kV | Reference: SWP-5.13 | Revision: |
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| | Revised: | |

1.0 GENERAL

This SWP summarizes the training module G2 of the DACUM chart. This work is permitted by a Line Worker in their 2nd Class stage of their progression after classroom training and testing has been completed successfully. This task will be signed off in Second (+).

2.0 REFRESHER TRAINING

- 2.1 This training commences with a “MAD” zone and Cover-Up refresher course (DACUM I 03)
- 2.2 A thorough understanding of the Minimum Approach Distance to 34.5/46 kV is imperative before working this voltage. (Versant Power Safety Manual 5.4.5)
 - a. 34.5 kV requires 31”
 - b. 46 kV requires 34”
- 2.3 Proper Cover-Up is essential to performing this task safely. Rubber goods may be installed by hand using Class IV rubber gloves on 19.9 kV.

3.0 CONTINGENCIES

- 3.1 Weather (Line Workers must use their best judgement)
 - a. High humidity levels would prevent this work
 - b. The threat of thunderstorms
 - c. High winds or gusts
 - d. Dew on the boom
 - e. No rain or mist
- 3.2 Amperage on the line shall be considered
- 3.3 This work may only be performed in the daylight
- 3.4 Two men in the air and working together while performing this work
- 3.5 One man must be 1st Class and have been trained in hot stick work of 34.5/46 kV
- 3.6 The second man must be a Line Apprentice 2nd or above and also have been classroom trained and tested before being allowed in the air on this work
- 3.7 The boom should be cleaned before work can begin.
- 3.8 Yellow Tag switching clearances must be obtained
- 3.9 If at all possible, the neutral conductor (if applicable on 34.5 kV) must be relocated to a lower position to gain the most clearance

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4.0 WORK PRACTICES

- 4.1 Hard guard may be installed with hot sticks and Class II gloves (if applicable)
- 4.2 All rules pertaining to Insulated (Hot-Line) tools must be adhered (Versant Power Safety Manual 5.6.5.4.a-h)
- 4.3 Testing and maintenance of Hot Line tools and cover must be tested current and cleaned (Versant Power Safety Manual 5.6.5.5.a-k)
- 4.4 Review section 5.7.5.6 Use of Hot Line Tools. Sticks must be wiped down before use.
- 4.5 4' shot gun sticks are not allowed for use on this type of work (SWP 5.01)
- 4.6 When clearances permit the following exception may be made to the Ground to Ground (Rubber Glove) rule: When working energized lines above 34.5 kV with insulated sticks if there are no distribution lines underneath. (5.7.5.4.f.vii)
- 4.7 Use caution when untying that the tie does not get too long. It may be necessary to cut the tie.
- 4.8 When re-tying the conductor, it is recommended to use a length of tie equal to 5 times the length of 9" line man pliers (6 if the conductor is 336.4 or larger) and secure to the insulator using proper tying methods.
- 4.9 The winch line, if used on a material handling unit, must have a link stick installed that is rated for the voltage being worked upon.
- 4.10 A jib attachment which is rated for the appropriate voltage may be used to manipulate the conductor.
- 4.11 Weight limits of the jib must be understood (300lbs on phase handler).
- 4.12 The jib must be pinned out to accommodate "MAD" zone clearances.
- 4.13 Use of hot line tools may be necessary to re-position cover-up.
- 4.14 With the fiberglass insert pulled out, a digger/derrick truck may be used to hold a phase conductor, if an appropriately rated link stick is attached to the winch line.

4.0 HOT LINE TOOLS AND RUBBER GOODS SECUREMENT

- 5.1 Class IV Specialty Equipment shall be removed from the truck at the end of the shift
- 5.2 Hot Line Tools must be returned to their designated location

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