

TRANSFORMERS

Transformers are designed to change voltage at given ratios and can do so at all voltage levels unless damaged. Therefore, working on transformers can be extremely dangerous. In the event you are required to conduct work on a transformer, make sure you are familiar with how it works and are properly trained.

If you are working on a transformer, always assume that it is energized until both the primary and secondary leads have been disconnected. When installing and connecting a transformer, make the ground and neutral connections first then make any secondary connections. The primary connection should always be done last. If you are uninstalling a transformer, remove the connections in the opposite order.

Whenever you are raising or lowering a transformer, make sure that anyone standing on the ground stays clear of the device. Safe climbing space must be available on poles where transformer stations are being built.

Do not ever touch the casing of a transformer or fuses on the high voltage side of the device. You can only do so with live line tools. Additionally, you should only use live line tools when connecting the primary side of a transformer. Appropriate rubber insulating Personal Protective Equipment (PPE) must be worn or isolating gear should be used.

Never change taps on an energized transformer, unless the device is specifically designed to do so. This would cause catastrophic failure to the transformer coil. If you are changing a transformer in a bank, check the nameplates for polarity, voltage and impedance to ensure the bank will function properly.

If you are working on a transformer where multiple transformers (network) feed into the same secondary, place appropriate signage below the secondary to warn others the possibility for feedback exists.

When working with transformers it is important to be cognizant of the weight of the equipment. Make sure that any equipment that is used to raise or lower the transformer is capable of safely handling the weight. Additionally, make sure that any pole or object that the transformer is being installed on is also capable of bearing the load.



DISCUSSION QUESTIONS

You should always assume a transformer is energized until when?

What should you do whenever you are raising or lowering a transformer?

When is it acceptable to change taps on an energized transformer?

What should you do if you are working on a transformer where multiple transformers feed into the same secondary?

SAFETY TALK ATTENDANCE ROSTER



COMPANY: _____ JOB/DEPT: _____

DATE: ____/____/____ TIME: _____

TOPICS ADDRESSED: _____

EMPLOYEE'S SIGNATURES:

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

EMPLOYEE SUGGESTIONS AND RECOMMENDATIONS: _____

ACTION TAKEN: _____

Supervisor's Signature

____/____/____
Date

Safety Coordinator's Signature

____/____/____
Date