**Linecrew Bulletin**

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# L:\2000 PICTURES\0 IFD Orca pics\Brochure pics\IFD - fault.JPGOverview

This bulletin will review the following:

* Two functions of the IFD Sensor
* IFD Shipping Lock
* Installing IFD equipped transformers

# Two functions of the IFD Sensor

## Internal fault detection

Activated

* The IFD Sensor is a mechanical device that detects rapid pressure rises associated with low impedance faults
* When troubleshooting transformer outages, **an activated IFD Sensor indicates that the transformer has faulted internally and must be replaced.** No additional troubleshooting is required

## Pressure relief

* The IFD Sensor includes a PRV designed to automatically relieve tank pressures that develop from transformer load or ambient temperatures
* The PRV functions with or without the IFD Shipping Lock installed

# IFD Shipping Lock

Not Activated

The IFD Shipping Lock prevents the IFD Sensor from activating while:

* Transporting the transformer
* Installing and preparing the transformer for field service

**The Shipping Lock must remain installed until just prior to transformer energization.**

If an un-faulted transformer is removed from service, a Shipping Lock must be re-installed.

IFD Shipping Lock

# A picture containing sky, outdoor, person Description automatically generatedInstalling IFD equipped transformers

When installing IFD equipped transformers, the Shipping Lock must remain installed while:

* Moving or lifting the transformer
* Making cable connections
* Venting the PRV (if required)
* Changing or installing a bayonet fuse (if required)

**Removing the Shipping Lock is the last step before transformer energization.**

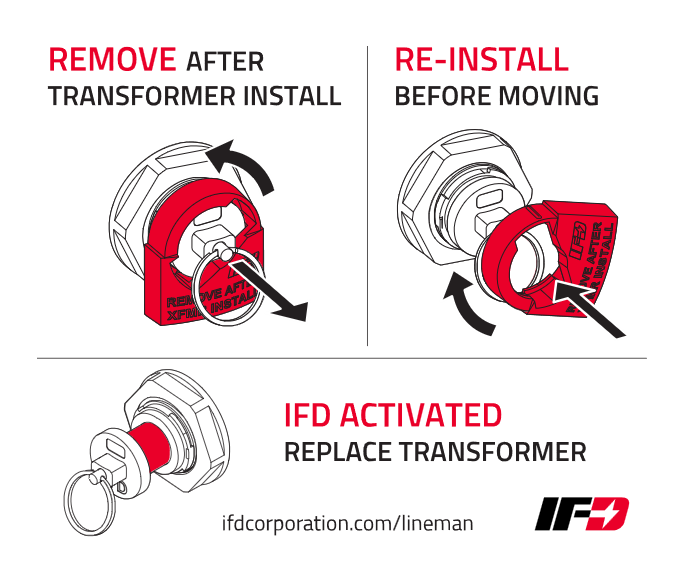
**If the IFD Shipping Lock is removed early and the IFD Sensor activates prior to transformer energization, please contact** Click or tap here to enter text. **for support*.***

Installing IFD Equipped Pole-mounted Transformers

# A picture containing text, person, person, orange Description automatically generatedKey points

1. When troubleshooting a transformer outage, **an activated IFD Sensor indicates that a field energized transformer has faulted internally and must be replaced.** No further troubleshooting is required.
2. When installing IFD equipped transformers, **the Shipping Lock should only be removed immediately prior to transformer energization.** It should be re-installed before moving an un-faulted transformer.
3. **Do not re-energize or energize a transformer with an activated IFD Sensor.** If the IFD Sensor activates **prior** to transformer energization, contact Click or tap here to enter text. for support.

Installing IFD Equipped Pad-mounted Transformers



# Resources

* An IFD Sensor Tailgate Training Video can be found at:

<https://ifdtech.com/resources-for-utilities/>

* Each transformer includes an IFD Decal which reviews the function of the IFD Sensor and the Shipping Lock

IFD Decal