



# uBooNE Presentation

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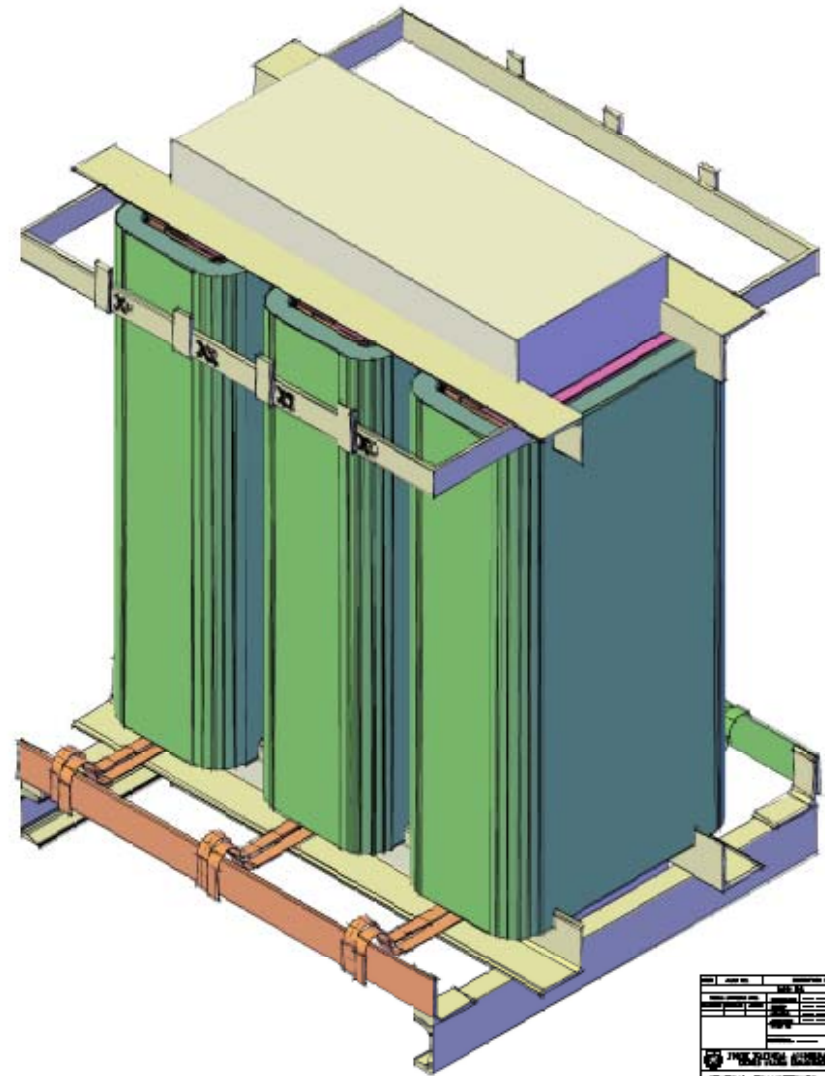
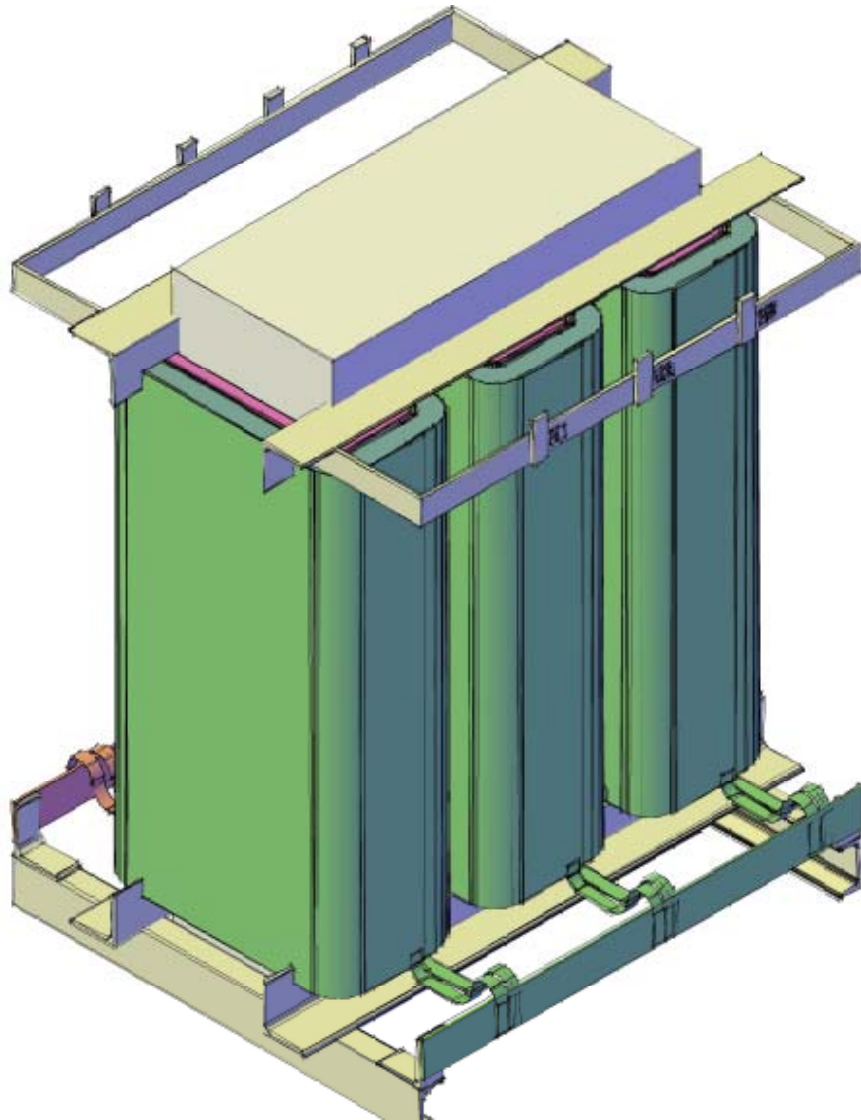
## Main AC Distribution System Transformer Specifications & Recommendations

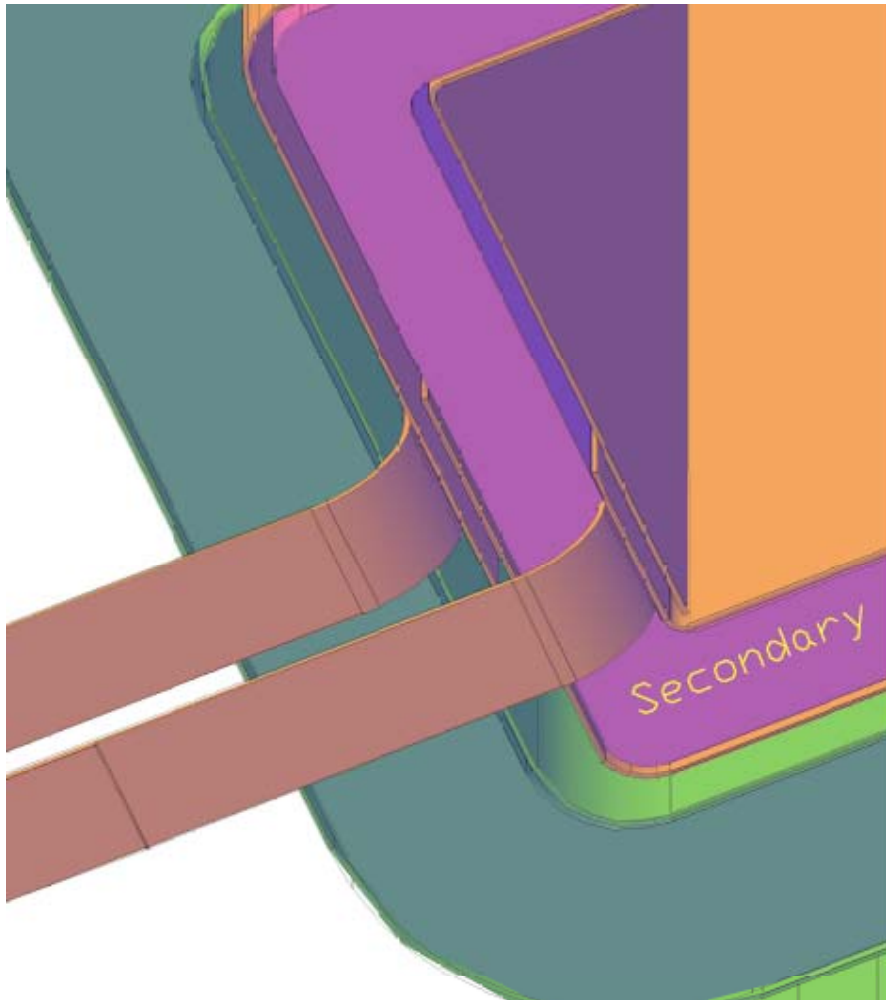
- 75KVA
- 3 Phase 480V Delta to 208 Wye
- 115 degree C temperature rise
- Electrostatic shield (dual and single)
- Non-linear load K4 rating

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- There are two build types required, however all transformers can be constructed as type 2.
    1. Single electrostatic shield (screen) between primary and secondary windings.
    2. Double electrostatic shielding between primary/core and secondary windings.
      - Required for maximum rejection of noise between AC line and sensitive electronics.
      - Each coil is surrounded by its own set of shields.

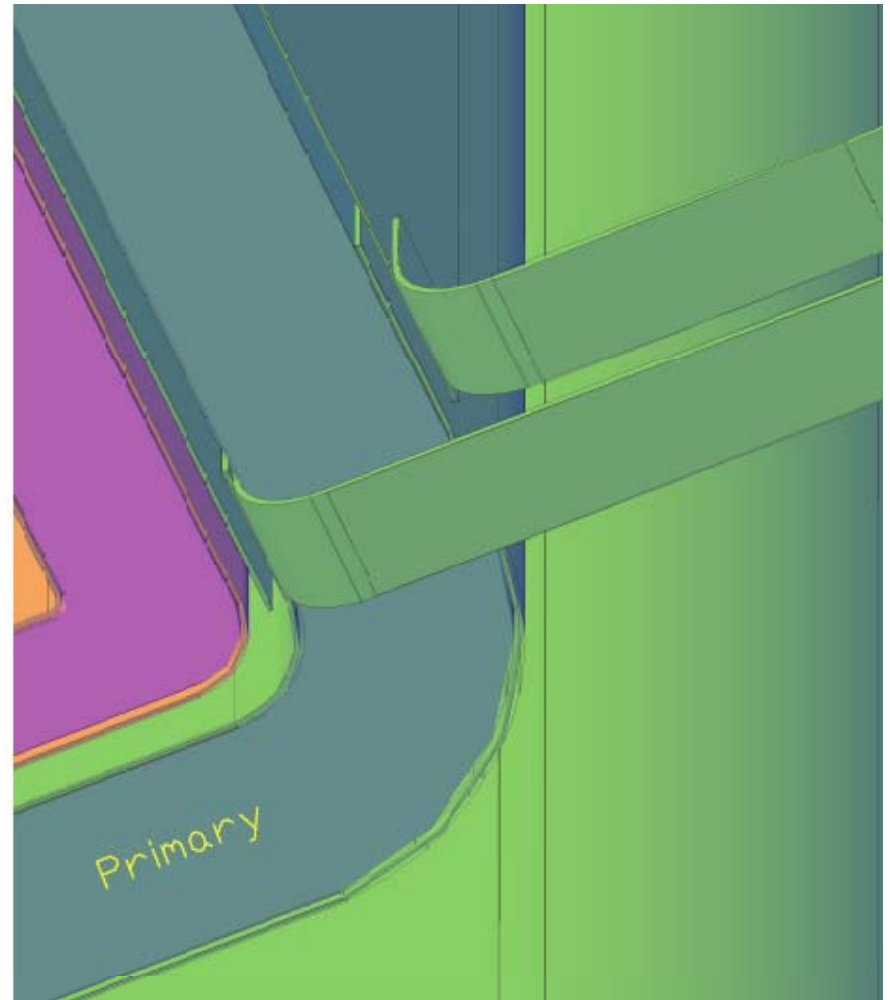
Shields connections are made with 5 mils,  $\frac{3}{4}$ " wide copper tabs that connect to lugs at the bottom of the transformer.

All shields must be electrically isolated from coils, core and each other.



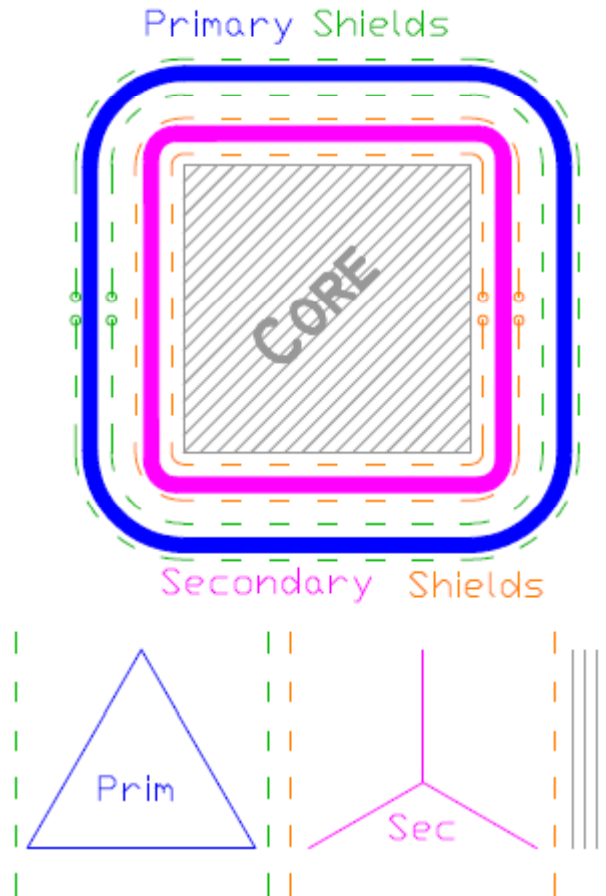


Secondary Shield Detail



Primary Shield Detail





One of three phases shown  
 Each coil is encompassed with  
 Its own electrostatic screen (shield)

# Installation Schematic

Build #3 Double Shielded

