Our Tesla Coil is meant to be as big and powerful as possible. To accomplish this, we knew we needed a very powerful and impressive secondary coil.

When we designed our coil, we decided to use a one foot by 6 foot coil which is the best aspect ratio (6:1) for large Tesla Coil secondaries. The first thing we needed to obtain was a one foot by over six foot form to wind our coil on. We purchased a section of PVC pipe to accomplish this. The form ended up being a little over 1 foot outer diameter and between 8 and 9 feet long. The next thing that we needed was wire. Tampa Armature Works donated over a mile of 20awg enameled copper wire to us for our coil. We first coated the PVC with Varnish to help insulate and seal it, then we wound the entire 6000+ feet of wire on the form.

We wound the coil on December 18th 2010, and the winding party was awesome! We now have an 8+ foot coil form with 6+ feet of actual windings!

Here are some pics:

#### Written by Coyt Barringer Tuesday, 21 December 2010 11:23 - Last Updated Wednesday, 22 December 2010 10:29



This is the secondary about one third of the way through completion

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Joe Register standing over the coil, winding.

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Lucky, Alex, and Billie providing the spin for the form as the coil was wound.

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Constrained to a state of the s

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Alejandro's job was to steer the PVC pipe and keep it in place while on our winding setup.

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Alejandro could fit in the PVC form! So we spun him around a bit.

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The finished coil, fully wound, sitting on the table.

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