

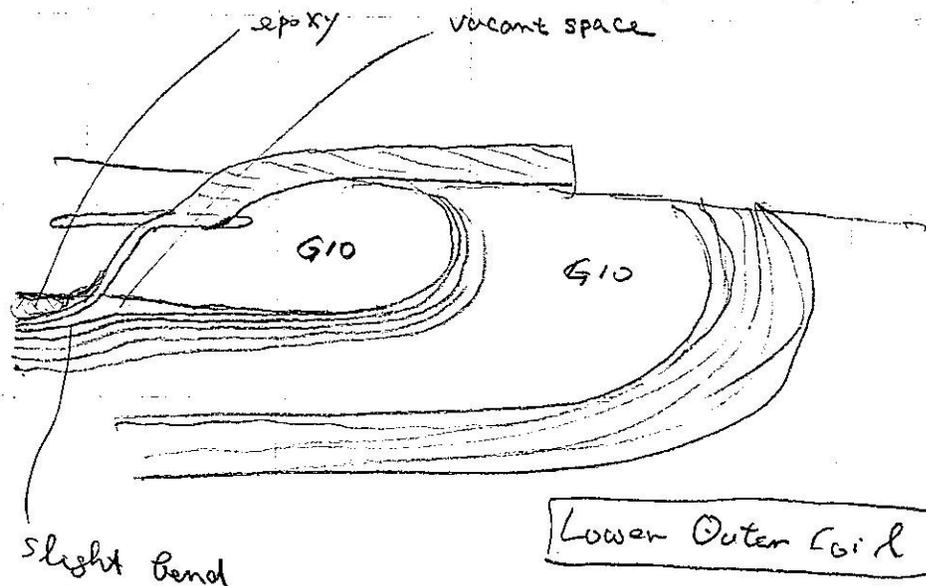
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DS0314 Inspection Memo

The end part of DS0314 was taken apart to find the cause of unexpected quenches in the lower outer coil near the land splice. A peculiar thing in this coil was a large gap between the coil and the G10 key. The gap was about 2 mm in the lead side while others had less than 1 mm gap. Actually, the G10 key was not pushed in to the proper position and had a tilt to the coil.

Since the next turn had a slight bend toward the midplane at this position, this may be caused by the too much epoxy to protect the voltage tap. A clod of epoxy at the voltage tap prevented the G10 key from properly pressing the pole turn and the land splice.

Since they have to use epoxy before the clamping, this could happen in any magnet. These epoxy should be used minimum amount and has to be dried with proper clamping not to create an obstacle for the closing of gaps. Use of some tempolary end clamp might be necessary.



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