Fermilab

FNAL/SSC Magnet Project
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MEMORANDUM

To: **Dan Smith**

From: **Bill Higinbotham**

Date: **21 Aug 91**

Subject: **Location of the Beam Tube, Tech Note TS-SSC 91-165**

Due to the nature of the coil assembly process there are apparently some intangibles that were not originally anticipated concerning coil growth and shrinkage. Therefore, until such time as we feel comfortable with the numbers related to the coil sizes and the engineering and traveller changes are made, the beam tube needs to be located 29.500" from the lead end of the upper inner saddle in lieu of the 25.500" as specified on the engineering drawing. This will insure a sufficient length of beam tube extending from the pressure dome to meet the slot length dimensions as defined by the "yellow book". Although, the beam tube may have to be trimmed to the length specified by engineering drawing ME - 292167 at cold mass final assembly due to this excess. The dimension to be held is a reference dimension, 22.433" from the face of the lead end plate to the end of the beam tube, on this drawing, but , if trimming is necessary it becomes a valid dimension. Also, note that if any of the Kapton wrap extends past the pressure dome it is necessary to trim the wrap so that it does not extend past the pressure dome. A copy of this Tech Note is to be inserted into the traveller in the location necessary for proper documentation.

xc: R. Bossert
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