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Conceptual plan of ILD solenoid magnet manufacture –Onsite winding

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While referring to CMS fabrication experience, we have been discussing manufacturing process of ILD superconducting solenoid with production companies and specified freight carriers. In case of CMS, five coil modules were transported from the winding factory to the assembly building in the CMS site where the CMS solenoid was completed. We have investigated the transit route where the ILD coil modules are transported and have recognized that there are too many obstructions to be removed and some bridges to be reinforced. So, we started to investigate alternative processes including the on-site winding. We have also found some subjects to be solved in them. Status of consideration about solenoid manufacture process is to be presented.

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