

论文

交流特高压晋东南变电站GIS组合电器超长大体积混凝土基础冬期施工方法

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摘要:

交流特高压晋东南变电站1 000 kV GIS基础为超长、大体积混凝土基础, 设计强度等级为C30, 预埋件数量众多、单件大而重, 且施工时正值冬季。因此, 防止大体积混凝土裂缝的产生和冻害, 成为施工时的关键问题。该文重点介绍了施工时所采取的多项技术措施, 包括: 混凝土统一配合比环保配制; 分块分层浇筑、阶梯推进的施工方法; 采用暖棚法对大体积混凝土进行温度控制, 保证环境温度不超过0~5℃。

关键词: 大体积混凝土 冬期施工 施工工艺 养护测温

Winter Construction Method of Mass Concrete Foundation for GIS in 1000kV AC Southeast Shanxi Substation

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Abstract:

The foundation for 1000kV gas insulated switchgear (GIS) in 1000kV AC Southeast Shanxi substation is a ultra-long mass concrete foundation, there are a lot of embedded parts in this foundation with a lot of embedded parts which are large size and the each single piece of the parts is heavy and large-sized. Because it is predetermined to construct this foundation in winter and its designed strength grade is C30, thus it becomes a key problem to prevent the cracks and frost damage of massive concrete during winter construction. In this paper the technical measures adopted in winter construction of mass concrete foundation are emphatically presented, such as environment-protective manufacture of unified concrete mixture ratio, block by block and layer of layer concreting, construction scheme of stepped marching, controlling temperature of mass concrete by warm shed to ensure the ambient temperature within the range from 0°C to 5°C, etc.

Keywords: mass concrete winter construction construction technology concrete curing and temperature measurement

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