# 远方备自投在巴彦淖尔110kV电网 的研究与应用 【上架时间： 2023-03-30】


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## 详细信息

【标题】远方备自投在巴彦淖尔110kV电网 的研究与应用

【Title】Research and application of remote standby automatic switching in Bayannur 110kV power grid

【摘要】随着电网架构的不断建设和完善，国民经济发展和社会生活对电力系统的供电可靠性要求越来越高，本站就地备自投只能解决本站主备电源的切换，对于单电源负荷环网和双电源串联链式网络的相邻厂站无法实现主备电源的快速切换。通过巴彦淖尔110kV主网架的结构分析和继电保护性能对不同运行方式供电可靠性的影响，以及已采用的就地备自投的弊端分析，提出了基于光纤通道实时远方备自投的应用方案，并实际应用到巴彦淖尔110KV单电源三角环网中。结合巴彦淖尔110kV主网架的主要结构特点，根据继电保护四性要求，安排合理的运行方式，提出远方备自投适宜的应用配置建议，为电网中类似问题起到了指导作用。

【Abstract】With the continuous construction and improvement of the power grid structure, the national economic development and social life have higher and higher requirements for the power supply reliability of the power system. The local standby automatic switching of the station can only solve the switching of the main and standby power supply of the station. For the adjacent stations of the single power load loop network and the double power series chain network, the fast switching of the main and standby power supply cannot be achieved. Through the structural analysis of Bayannur 110kV main grid and the influence of relay protection performance on the power supply reliability of different operation modes, as well as the analysis of the disadvantages of the adopted local standby automatic switching, an application scheme based on fiber channel real-time remote standby automatic switching is proposed and applied to Bayannur 110kV single power triangular ring network. Combined with the main structural characteristics of Bayannur 110kV main grid, according to the requirements of the four characteristics of relay protection, reasonable operation mode is arranged, and suitable application configuration suggestions for remote standby automatic switching are put forward, which plays a guiding role for similar problems in the power grid.

【关键词】就地备自投；主备电源切换；单电源环网；光纤通道；远方备自投；应用配置

【Keywords】Local standby automatic switching; Switching of main and standby power supply; Single power loop network; Fibre channel; Remote standby automatic switching; Application configuration.

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