

Communication between WDPF and Remote Terminal Unit in Power Plant

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ABSTRACT

In order to realize the direct communication between a computer and Distributed Control System(DCS), the structure of the WDPF type DCS made by the Westinghouse Company of America is analyzed in detail in this paper. The compatibility and a high speed communication between DCS and the existing computer systems such as Remote Terminal Unit(RTU) and Management Information System(MIS) are problems when employ a DCS. In order to realize a direct communication between computers of RTU and DCS, the structure of the WDPF type DCS made by the Westinghouse Company of American is analyzed in detail in this paper. By means of analyzing its inner agreement on communication, an interface between the WDPF type DCS and the computer is designed, which includes the software and hardware. This interface has been put into use successfully and efficiently in the RTU project of the WISCO Power Plant.

Keywords: DCS, RTU, communication port