**MODELING, CONTROL AND MONITORING OF S3RS BASED HYDROGEN COOLING SYSTEM IN THERMAL POWER PLANT**  
  
  
  
**ABSTRACT**  
The faster heat dissipation of generators in power plant call for hydrogen cooling, and water is used as coolant to cool down the hot hydrogen which comes out from the hydrogen cooling system (HCS) at generating end. Therefore, in large generating plants the process of cooling and coolant becomes an integral part of the Heat Exchangers. Hence, requirement of a reliable hydrogen cooling system is a must. This paper presents development and implementation of supervisory control and data acquisition (SCADA) based process control and monitoring system. A novel method of Six Stage Standby Redundant Structured (S3RS) HCS is proposed for the cooling of large generators in thermal power plant(s).   
This proposed system is equally reliable for steam turbine based generating plants and Integrated Gasification Combined Cycle (IGCC) plants. The entire process control and monitoring, popularly known as human machine interface (HMI) of HCS has been developed and simulated on RSViewSE, a real-time automation platform by Rockwell Automation. And, the system reliability of the proposed S3RS process model is implemented using MATLAB

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