

Evolution of Maintenance Practices for RHIC

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The Collider Accelerator Department (CAD) at Brookhaven National Laboratory, which includes the Relativistic Heavy Ion Collider (RHIC) has been in operation for 55 years. For the past 15 years, production at RHIC has been the major focus. In this paper I will briefly describe some of the early methods utilized for running the early accelerators at CAD including the Alternating Gradient Synchrotron (AGS) and focus on the evolution to the modern system and practices presently used for CAD and RHIC. I will describe the methods by which the present work control communication and review systems have come about. I will also describe the role of the Accelerator Maintenance and Support Groups including scheduling, coordinating, planning, documenting and reviewing all phases of work throughout the complex. I will show uptime and overall reliability trends and discuss areas where further improvements in the future.