



INDIAN POINT 2

“The program allows us to look at the plant in a holistic view and to determine that the plant status is stable and not degrading. Subtle changes that we may not be aware of are being monitored and recorded, allowing us to quickly correlate data trends. It now takes eleven minutes with PI rather than five to six hours doing it manually and allows for a safer and more rapid recovery of the plant.”

Charles Hayes

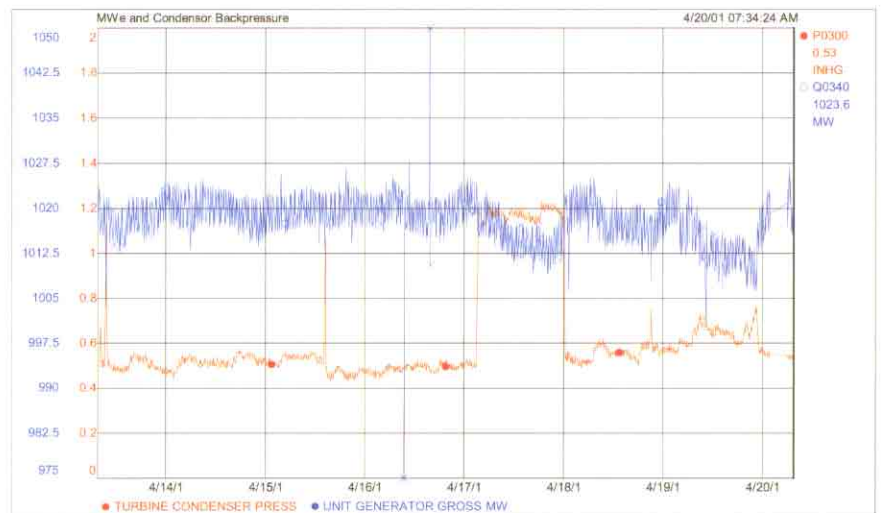
Consolidated Edison of New York
Indian Point Nuclear Station 2

Overview of the PI System installation at Indian Point Nuclear Station 2

The PI System was installed by Consolidated Edison Company of New York (Con Edison) in 1998, at their Indian Point Nuclear Station 2 (IP2). PI has been very successful in allowing the staff members to both improve plant efficiencies and verify that these efficiencies have occurred through the use of PI data. Through PI’s monitoring of the primary plant and safety assessment system, it provides value to the staff by allowing them to view plant operations from their office without physically going to the control room or an operator to get information. Months of plant data can now be viewed using the PI client tools.

PI monitors the safety assessment system, and is used to verify that the plant has been operating well within the parameters set for safe plant operation. PI monitors both safety parameters and corrective action taken to improve plant operation. Things that happen very fast are easily found with PI client tools. The data that was recorded since 1982 has been back filled into the PI System. This PI data is available to not only the IP2 staff, but also to the NRC for audit information and record keeping.

PI is useful in keeping a plant safe and promoting cost effective decision making. The trend below shows a before and after snapshot of the negligible effects of a condenser water box cleaning, costing an estimated \$10,000 or 21 hours of down time. PI helps monitor operations so that maintenance is performed on an “as needed” basis rather than arbitrarily scheduling these activities. Revenue generation is enhanced and unnecessary cycling of plant components is reduced, thereby extending operating life.

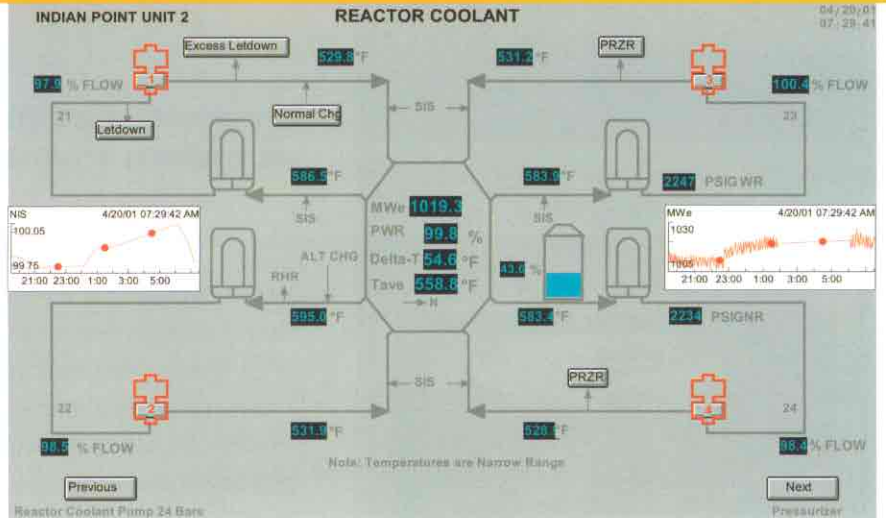


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“On February 15, 2000, a steam generator tube rupture event at IP 2 was detected by the PI System. PI data was crucial to both the diagnostic and recovery process, and proved instrumental in the later post event analysis.”

Charles Hayes

*Consolidated Edison of New York
Indian Point Nuclear Station 2*



The above display is a user-configured PI System which may be used on desktops, portables or hand-held devices throughout a facility. PI's customization enables anyone who is connected to retrieve information about what is happening in real-time or historically.

Regular performance verification is done for a variety of plant equipment. An example is the auxiliary water feed pumps that have to be isolated from service and tested off-line. Prior to the installation of the PI System a team of people were required on hand for hours to complete this test. Charles Hayes noted, "With the installation of the PI System these types of performance tests now take half the time and fewer people since the in-line instrumentation can be used. It also means that the manager no longer has to be present as the data can be viewed from his office. An added benefit of PI is that the test data can be compared to all the previous tests at the same time. This makes the manager happy, and increases overall test reliability."

Discover the power of the PI System for yourself

Take a step into a more profitable future. Contact us today at power@osisoft.com to learn more about the PI System in the power generation industry.



www.osisoft.com

777 Davis Street, Suite 250
San Leandro CA 94577 USA

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