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MIS 2501Section 001

Data Centers and Networking

Replacing our Tier I system with a Tier III system with redundant capacity components will save our company at least 13 million dollars in the next three years. The 35 million-dollar investment will pay for itself because the 10 unscheduled outages we have experienced in the past year alone cost the company millions of dollars. If we do not implement this technology we will continue to lose $14,800 per downtime minute due to lack of processing, production and shipping.

Key capabilities of a Tier III data center include redundant capacity components as well as the ability to remove each capacity component without interrupting the other equipment. The concurrently maintainable components within the Tier III data center lower the risk of hardware problems and increase the ability for scheduled maintenance without downtime. A Tier III status with a 99.98 percent availability allows for 105.12 minutes of unavailability compared to 1,734.48 minutes of unavailability for a Tier I data center with 99.67% of availability. The difference of 1,629.36 minutes saves the company $24,114,528 annually.

The three year cost of this Tier III data center is $35,000,000, however our company will benefit $48,114,528 combined in years two and three. In three years, with an upgrade to a Tier III data center, our company will have a net benefit of $13,229,056.

Works Cited

"Data Center Site Infrastructure Tier Standard: Topology." . Uptime Institute Professional Services, n.d. Web. 9 Sep 2013. <uptimeinstitute.com>.

"Global Organizations are losing more than 127 million person hours a year through lost employee productivity during IT downtime." ARC Serve: More Than Backup. CA Technologies , n.d. Web. 9 Sep 2013. <http://www.arcserve.com/us/lpg/costofdowntime