Megan Gallagher

Datacenters and Networking

I highly recommend upgrading our data center from Tier I to Tier III as our company lost over $25 million due to unscheduled outages in our ERP system. Building a Tier III data center would allow us to more effectively maintain our systems, and dramatically reduce the amount of money lost due to outages per year to about $15 million. Downtime affects productivity and revenue, things that could improve if the Tier I data center is upgraded to a Tier III data center.

 By using a Tier III data center, we could reduce downtime to less than 1.8 hours per year. Availability of our systems would rise to 99.98% meaning our company would increase productivity and increase profits alongside the savings produced. Tier III Data Centers provide about 72 hours of power during outages. When using a Tier III Data Center, every distribution concept that is needed to support IT processing can be maintained on a scheduled basis without affecting the IT environment. Every element in the distribution paths could be removed without affecting the critical environment and there is enough capacity to function when redundant components are removed for service. Downtime could be reduced by implementing a Tier III data center, therefore saving money each year.

By switching to a Tier III data center, we would increase the availability of our ERP systems from 99.67% to 99.98%. As of right now, we lose $14,800 every minute our systems are down, and last year they were down for 1734.48 minutes, having a total loss of $25,670,304. To install such a data center would take 1 year and cost $35,000,000, however our company would save an average of $12,447,861 every year and there would be a $37,343,584 net benefit over a three year period.

Works Referenced

 “Data Center Site Infrastructure Tier Standard: Topology.” *Uptime Institute Professional*

*Services, LLC.* Uptime Institute, LLC. Web. 08 Sept. 2012. <http://community.mis.temple.edu/mis2501sec001f14/files/2014/08/Data-Center-Site-Infrastructure-Tier-Standar-Topology.pdf>

Perlin, Martin. "Downtime, Outages and Failures - Understanding Their True Costs." *Cost of*

*Downtime, Outages and System Failure in IT – Understanding True Cost*. Evolven Software, n.d. Web. 28 Sept. 2014. <http://www.evolven.com/blog/downtime-outages-and-failures-understanding-their-true-costs.html>.

"Tier Standards Overview | Data Centers | Colocation America." *Colocation America*.

Colocation America Inc, n.d. Web. 05 Sept. 2014. <http://www.colocationamerica.com/data-center/tier-standards-overview.htm>.