Andrew Tauskey

 I recommend that we upgrade our datacenter to a Tier III status, an investment that will yield a net benefit of $37,480,800 over three years. Our current equipment requires 24 hours of required downtime for maintenance costing us $21 million and an additional $4 million due to unplanned outages. The proposed solution is an investment of $35 million into our Data Center technology that will yield a downtime reduction of 94% through the utilization of the facilities’ Concurrently Maintainable systems. These systems will allow our datacenter to operate continuously, uninterrupted by scheduled downtime that most organizations require.

 A Concurrently Maintainable system is comprised of technologies that will allow continuous application availability. Thanks to a real time, self-monitoring function, the system identifies and solves system errors as they occur. This eliminates the need for planned annual shutdowns and enables a risk management strategy that mitigates the probability of downtime. Another important feature of the Data Center is its multiple independent distribution paths which allow every connected element to be interchanged with no effect on any systems operation. Having multiple independent power and cooling distribution paths allows provides the highest standard of protection against power outages and hardware failures.

 By eliminating planned downtime completely and reducing unplanned downtime by approximately 66%, the Tier III Data Center would allow for 99.98% availability. This translates into annual savings of $24 million and net savings of approximately $37,460,800 over a three year span.

Sources:

[Data Center Site Infrastructure Tier Standar – Topology](http://community.mis.temple.edu/mis2501sec001f13/files/2013/08/Data-Center-Site-Infrastructure-Tier-Standar-Topology.pdf)

<http://www.industryweek.com/information-technology/manufacturer-it-applications-study-finding-real-cost-downtime>

<http://www.itchannelplanet.com/business_news/article.php/3916786/IT-SystemDowntime-Costs-265-Billion-A-Year-Study-Finds.htm>”