

Michael Doyle

### Flash Research Assignment: Data Centers and Networking

Investing in a tier III data center will increase the top and bottom line of the income statement. A tier III data center will decrease outages to our system with backup power sources. Upgrading our data center from tier I to tier III will produce net benefit of \$13,229,056 over a 3 year period.

The tier III data center provides 99.98% uptime and no more than 1.6 hours of downtime per year. It can sustain this because it has redundant capacity components and multiple independent distribution paths to the critical environment. These are backup power sources if others were to go down. When planned, we can conduct maintenance without having to shut down our systems. This is crucial for minimizing downtime.

It will cost us \$35,000,000 to implement the tier III data center. But if we do, we will have a \$48,229,056 benefit over 3 years. Investing in the tier III data center will result in a 3 year net benefit of \$13,229,056.

## Works Cited

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	Year 1	Year 2	Year 3	
Costs	\$ 35,000,000.00	\$ -	\$ -	\$ 35,000,000.00
Benefits		\$ 24,114,528.00	\$ 24,114,528.00	\$ 48,229,056.00
3 yr benefits				\$ 13,229,056.00
	Availability	Downtime cost per minute	Downtime (mins/year)	Cost per year
Tier I	100%	\$ 14,800.00	1734.48	\$ 25,670,304.00
Tier III	100%	\$ 14,800.00	105.12	\$ 1,555,776.00
			Savings per year	\$ 24,114,528.00