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Flash Paper 4

\$507,000 in net benefits can be achieved over 3 years if the company invests in solid state hard drives. If we upgrade the 132 salesman's laptops with solid state hard drives, the durability of those hard drives will prevent the failures the company is losing money on.

The standard hard drives on the Dell laptops we are investing in create business interruption because they are prone to fail 3 times a month. These failures waste days of work that the salesmen are being paid for. The failures stem from the salesmen treating their laptops roughly. Standard hard drives are comprised of circular metal disks that hold data. These disks rotate on a spindle, so that data can be displayed or stored. The combination of the spindle, platters, and casing makes the hard drive heavy. All the moving parts within the standard hard drive make it delicate, therefore prone to failure. Solid state hard drives are durable and will not fail because it does not involve moving parts and is similar to a flash drive. It uses electricity and circuits to store the data necessary, on a small board within the laptop. Upgrading the 132 laptops with durable solid state hard drives will eliminate failures.

The cost to install and utilize solid state hard drives on 132 laptops over 3 years is \$264,000. Within these three years of implementation and use of the solid state hard drives it will have a cost avoidance benefit of \$771,000. The net benefit for this investment is \$507,000 over 3 years of implementation.

Works Cited

- Domingo, Joel Santo, and Joel Santo "SSD vs. HDD: What's the Difference?" *PCMAG*, PCMag Digital Group , 9 June 2017, www.pcmag.com/article2/0,2817,2404258,00.asp.
- Fitzpatrick, Jason. "What Is a Solid State Drive (SSD), and Do I Need One?" *How-To Geek*. How-To Geek, 28 Sept. 2016. Web.
- Rouse, Margaret. "What Is SSD (solid-state Drive)." *SearchSolidStateStorage*. TechTarget, May 2016. Web.

Standard Hard Drives	Year 1	Year 2	Year 3	Total
Install Cost	\$231,000	\$0	\$0	\$231,000
Hardware Failure Day Costs	\$180,000	\$180,000	\$180,000	\$540,000
Total	\$411,000	\$180,000	\$180,000	\$771,000
SSD	Year 1	Year 2	Year 3	Total
Install Cost	\$264,000	\$0	\$0	\$264,000
Hardware Failure Day Costs	\$0	\$0	\$0	\$0
Total	\$264,000	\$0	\$0	\$264,000
Net Benefit	\$147,000	\$180,000	\$180,000	\$507,000