## Assignment 5

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# Question1:

Using your table from Mining Transfer TD last week assignment(question 1). Choose a proper control stratgey for that asset ( avoidance, transfer, Reduction). Choose a control for that asset ( physical controls, administrative controls or technical controls)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Asset | Risk liklihood | Consequqnce | Risk Control stratgey | Controls | Risk level | priority |
| unauthorized modification of control system | Unlikely | Moderate | Risk Reduction | Technical control | Medium | 5 |
| corruption, theft, loss of databases and electronic records | Possible | Doomsday | Risk Sharing (perhaps using something like AWS) | Administrative Control | Extreme | 1 |
| loss/theft of hard copies of files | Rare | Moderate | Risk Reduction | Physical Control | Medium | 6 |
| attacks/errors affecting procurement system | Unlikely | Insignificant | Risk Reduction | Technical Control | Low | 7 |
| attacks/errors affecting financial system | Likely | Catastrophic | Risk Transfer | Technical Control | Extreme | 2 |
| attacks/errors affecting email system | Likely | Moderate | Risk Reduction | Technical Control | High | 3 |
| attacks/errors maintenance/production affecting system | Almost Certain | Minor | Risk Reduction | Technical Control | High | 4 |

# Question 2:

Mining Transfer TD has B2B operations conducted online through their website. These operations generates $500,000 per year. Calculate the annualized rate of occurrence (ARO) and annualized loss expectancy (ALE) for each of the following risks:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Risk | Cost per incident | Frequency of occurrence | ARO | ALE |
| Software Errors | $1,000 | 2 per week | 104 | ~ $104,000 |
| Data Breach(hacking the database) | $2,000 | 1 per quarter | 4 | ~ $8,000 |
| Data Breach(other causes) | $5,000 | 1 per year | 1 | ~ $5,000 |
| Viruses | $1,000 | 1 per year | 1 | ~ $1,000 |
| Denial of service attacks | $3,500 | 1 per 6 month | 2 | ~ $7,000 |
| Natural disaster | $100,000 | 1 per 20 years | 18.25 | ~ $1,825,000 |