

#### Free Write 4

The engineering system cyber attack that I will be explaining is similar to the 2013 New York Dam attack. There's a dam back home where I live in Clarksville, Va called John H. Kerr dam that was built by U.S Army engineers, and it too could be subjected to a malicious cyber attack. In fact, in the early 2000s there was even caution taken because they were afraid that it would be the subject of an attack. The precautions taken during this scare are not fully known, however, I do know that they stopped allowing people to take tours of inside the dam. The type of cyber attack that could happen would be if the dam is electronically manipulated to allow over flooding. If John H Kerr. dam were to be attacked, causing a flood, there would be devastation and casualties to thousands of homes and people. The reason this flood would be so devastating to many is because the dam feeds Kerr which is connected to various rivers. Additionally, without the added miles of the other rivers, Kerr lake spans over 800 miles on its own. Next, there's another type of cyber attack that could happen. The dam uses hydropower which produces hydroelectricity for various different parts of the area and if attacked, there would be a huge power outage. Lastly, in order to prevent both of these attacks, they should hire someone who knows how to prevent these types of cyber attacks and how to strengthen their security. Maybe in the future I could look more into whether or not they have this type of security and if not, I could potentially be the person who helps them. All in all, I enjoyed this week's free write because it made me think about something very close to home that applies to my future career.