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**CYBV 480: Cyber Warfare**

Scoping Exercise

**Exercise – Scoping and Rules of Engagement**

The purpose of this exercise is to build Rules of Engagement and a scope for a penetration test. To accomplish this, you will work in groups of four. Two students will take on the role of the penetration testing company and the other two will be the organization that is hiring the penetration testing company.

Below you will find a scenario that is purposely vague to get you to think through the process. The scenario will be similar to the final examination scenario, but this is planning for the potential actions by a terrorist group that could threaten the CyberApolis Water company. Because of this the penetration testers will look at it from the viewpoint of an external entity trying to get access to the company.

Although you will be splitting your roles, your assignment will be one consistent document describing the discussions that you had, information that you discovered, things you agreed upon, and what you need to do.

Within the assignment folder you have two worksheets that will assist you with getting notes together for this project.

**Request for Proposal**

The CyberApolis Water Company provides water to all citizens of CyberApolis. Additionally, the company maintains the HMI controls that control the dam’s flood gates. The company is concerned with terrorists conducting an attack against this critical infrastructure. Many times, penetration testers are provided with limited information about a project, which makes scoping an important task.

1. The test will be performed for CyberApolis Water Company, a water company with ~150 employees that operate in multiple districts across the state.
2. The company wants a penetration test simulating an outside penetration test due to their concern about attacks by terrorists on their critical infrastructure.
3. The goal of the project is to find security flaws that may have resulted from improper policies, practices, implementation, patch management, and so on.

Once you believe you have all of the important information, you will develop a written report that combines all of the pertinent information into one document broken down by the prompts within the scoping worksheet and rules of engagement. Your report will be a minimum of two pages for the scoping section and two pages for the rules of engagement portion.

Ensure that you use APA formatting and the provided report template.