**SCADA/ICS Python Scripts Instructions**

**Background:**

You need to run the python scripts from their respective folders since they import from the program eip.py, which has the appropriate IP address for the PLC being attacked. All the scripts are written in Python version 2.7 and will not run in a Python 3.x environment.

**Assumptions:**

You have compromised a system that has connectivity to the target HMIs, PLCs, etc…

**Operation:**

1. Confirm connectivity by pinging each of the PLC IP addresses
2. Run RA\_Get\_Controller\_Tags.py for each respective IP address which should update the file called “TagList” located in that folder
3. Initiate the appropriate python script to achieve the desired effect reflected by the name of the python script.

**Filenames to Effects Reference:** other files not mentioned below are utilized to enable functionality or gather information and are not covered.

Close\_All\_INF.py – Closes all influent valves to shut off all source water into the plant

Close\_F1\_INF.py – Closes the Filter 1 influent valve which will restrict flow into the plant from the source water feeding the plant

Close\_F5\_BWD.py – Closes the Filter 5 BackWash Drain valve which will not allow wasye water from the backwash process to drain as expected

Drain\_Plant.py – Closes all influent valves and opens the drain valves which will drain all of the water in the plant

F1\_EFF\_CV.py – Changes the Effluent Flow Control Valve setting to an unexpected value

Open\_All\_INF.py – Opens all influent valves which will allow source water into the plant from the water source which could potentially flood the plant if there is not enough demand on the system

Open\_F1\_INF.py – Opens the Filter 1 Influent valve which will allow water into the plant from the water source which could cause harm to personnel or the plant if the filter was closed to clean that filter

Open\_F5\_BWD.py – Opens the Filter 5 Backwash Drain which may cause unexpected results and allow water from the drain back into the plant, however typically backflow preventers are installed as an additional safety measure

Reset\_Plant.py – Opens all of the Influent valves and closes all of the Drain valves which resets the plant to default state