ICS WALL

- Started three years go for DefCon 22’s first ICS village.
- Original design was of a water treatment plant.
- Designed to allow people access to ICS components and to talk to people who work with them on a regular basis.
- People are encouraged to connect to the wall and hack the devices or see what happens when they do things such as run Nmap.
ICS WALL

• Original wall served its purpose but after using it at DEFCON 22/23, RSA's innovation sand box, ICSJWG and loaning it to ICS-CERT last year it needed a make over.

• The old wall had many ICS components and many lights but it was still missing something. We needed something more “awesome”.

• The new wall had to have an actual process of some sort so people can see first hand what someone can do to a running process.

• We wanted to show what a cyber/kinetic effect looks like.
ICS WALL

- The new wall is has a level controller as well as a temperature control loop.
- Uses a mixture of hardware and protocols.
- Contains flags for the ICS security challenge
ICS WALL

• **How was this done?**
• **The wall is owned and maintained by Phoenix Contact**
• **Other sponsors were:**
  • **Counter Hack**
  • **SANS**
  • **Dragos Security (Cyber Lens)**
  • **Trihedral Engineering (VTSCADA HMI)**