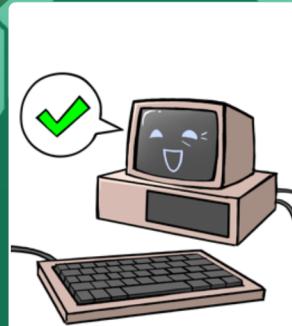


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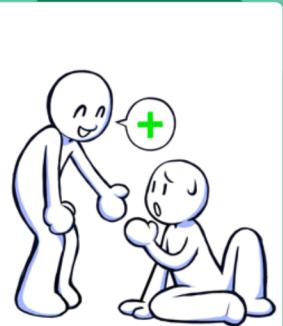
+1 to station. A forensics tool for old style modems bought. Issues can now be ascertained on fifteen- to twenty-five year old hardware.

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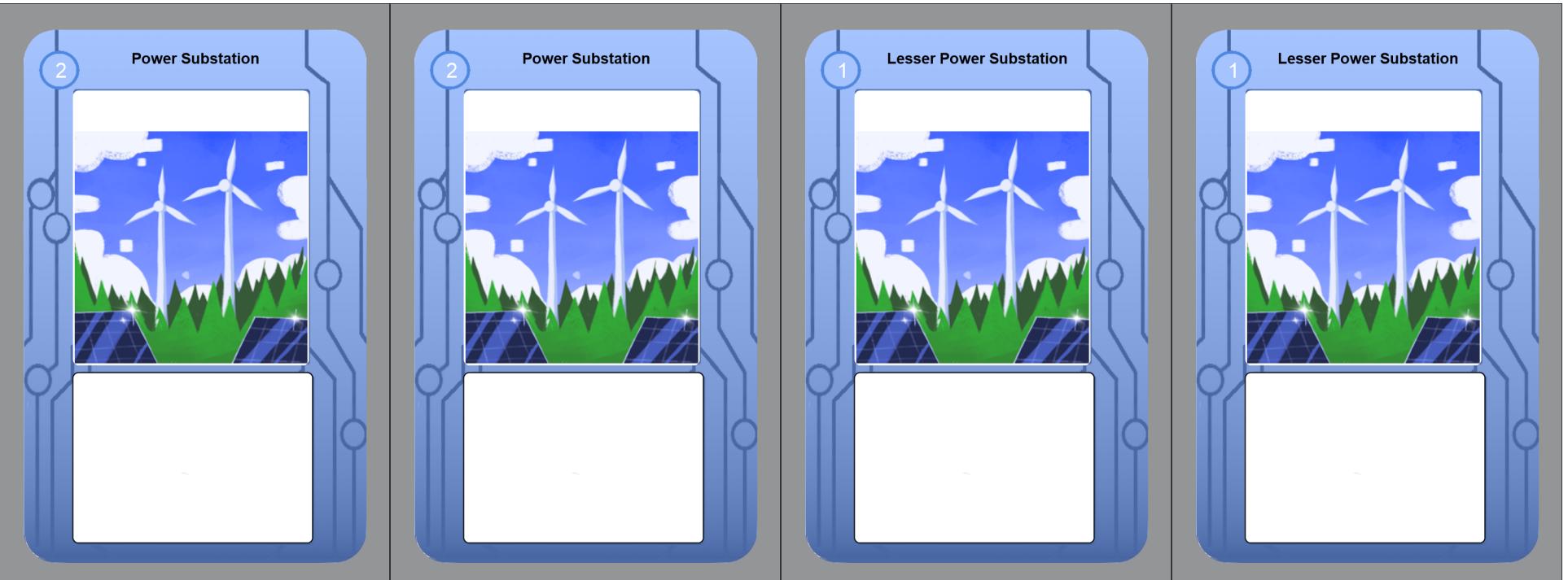
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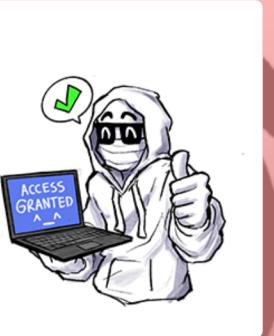
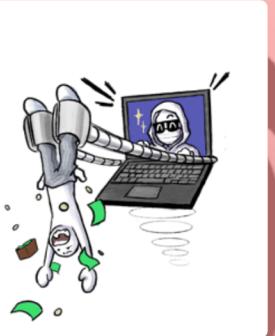
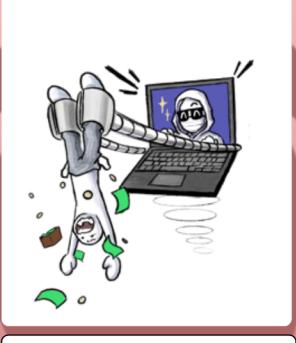
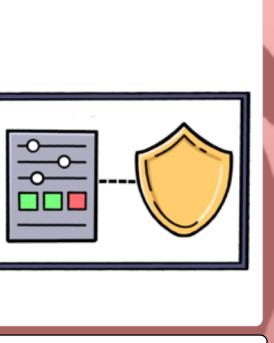
2 Power Station



2 Power Substation





<p>Vulnerable to Phishing \$1</p>  <p>Employees opened email and either clicked a link or opened an attachment sent from an attacker.</p>	<p>Field Devices Vulnerable \$1</p>  <p>Access gained via field devices. Field devices such as transformers and wind farms have a vulnerable technology like Bluetooth embedded that can't be turned off.</p>	<p>Field Devices Vulnerable \$1</p>  <p>Access gained via field devices. Field devices such as transformers and wind farms have a vulnerable technology like Bluetooth embedded that can't be turned off.</p>	<p>Ransomware \$3</p>  <p>Your business machines have been infected with ransomware and all the hackers care about is that you pay them.</p>
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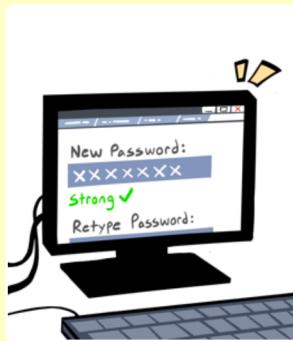


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Firewall Log Review



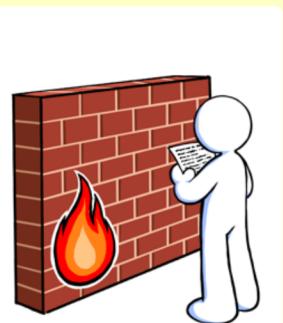
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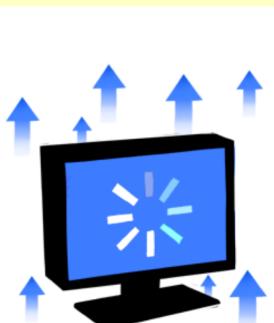
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Pay Ransom



You pay the ransom. Roll dice and if you get a 19 or 20 you get all your data back. If you get greater than a 10 you get some data back and take a -1 damage to your facility. Lose all points for the attack if you get a 10 or below. Note that 80% of companies that pay the ransom are attacked a second time in the future.

Restart and Patch



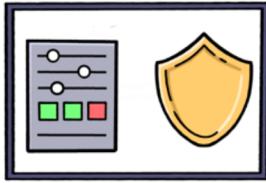
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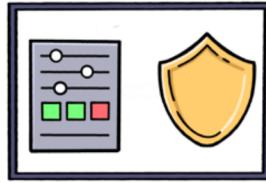
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Separate Functionality



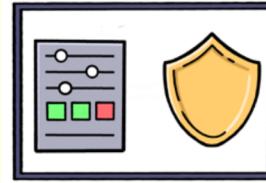
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Repair Technician



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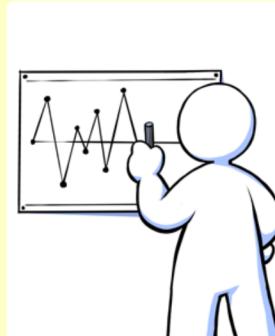
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Run Analytics

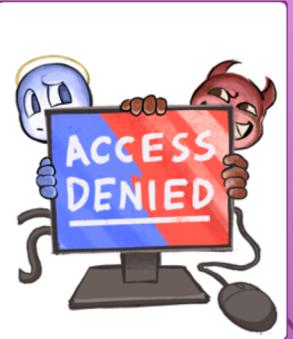


Run analytics on user/system behavior to notice and then stop an outsider from accessing networks. Stops access from phishing and vulnerable field devices.

HALT



Cancels any instant action. Somebody was on the ball today.

HALT

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Wrong IP

Attacker uses the wrong IP for a relay switch open command and nothing happens. Fixes Brute Force I/O and happened during 2016 Ukraine Power Grid Attack.

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Patch Siemens Relay Exploit

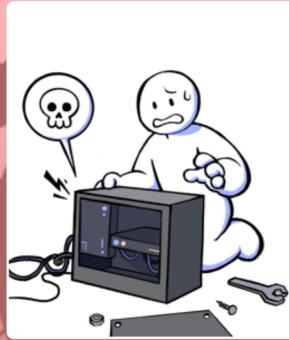
+1 to station. Patch Siemens mechanical relay exploit (stops any relay issues on that station).

Physically Reset Devices

Physically reset devices in a facility.
Used for Brute Force I/O and Stations that are not working. Can only be used on stations with the Siemens mechanical relay exploit patched or else station explodes (-5 pt) and life is lost.

Sewage Dumped

(Water Only Vuln) Brute Force I/O attack sends false messages via radio network to disable alarm reporting and corrupt a water pump system to run incorrectly. Can't be played on a station with upgraded SCADA access authentication.

-1 \$3**Mechanical Breakdown**

(Water Only Vuln) Pump sewerage station stopped through mechanical error when equipment fails after being used incorrectly due to cyber attacks. Fixed through repair.

-2 \$4**Emergency Action Plan**

Discuss: How often does your company update their emergency action plan? Does it include cybersecurity threats? Could you potentially have both a natural disaster AND cybersecurity threat happen at the same time?

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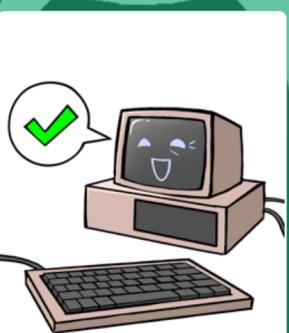
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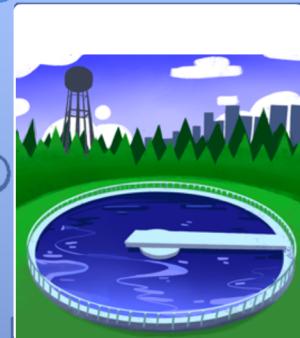
Water Treatment Plant



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Water Treatment Plant



Lesser Water Station



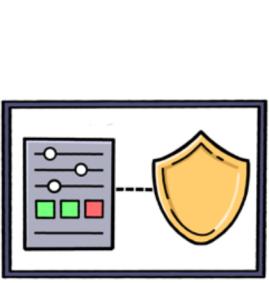
Lesser Water Station

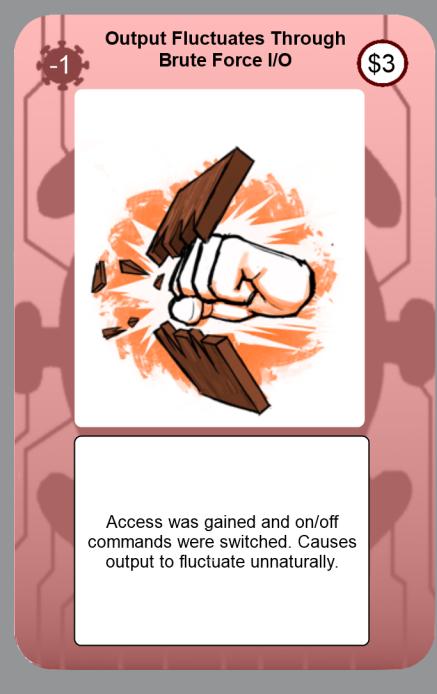
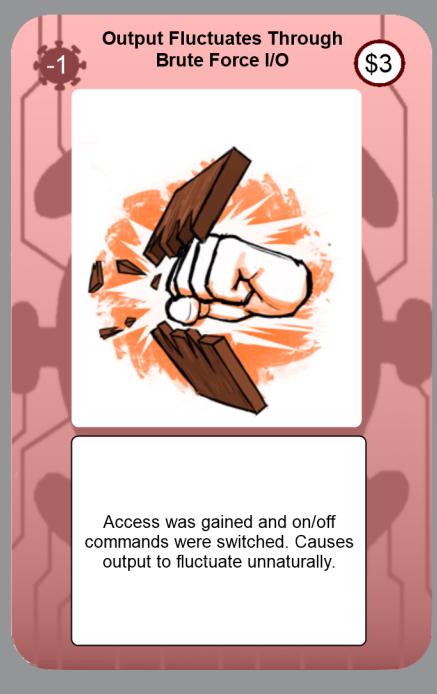
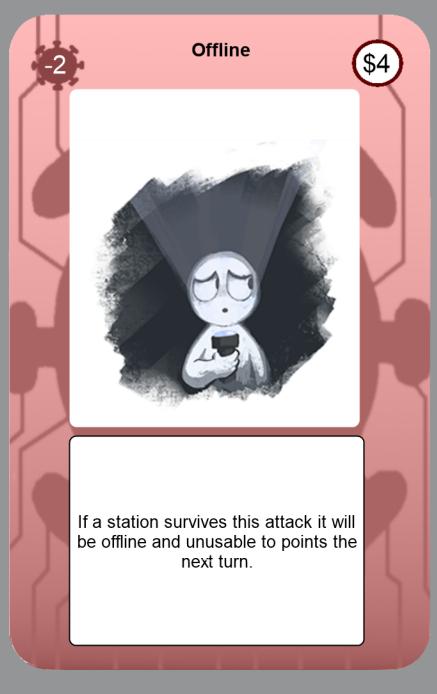
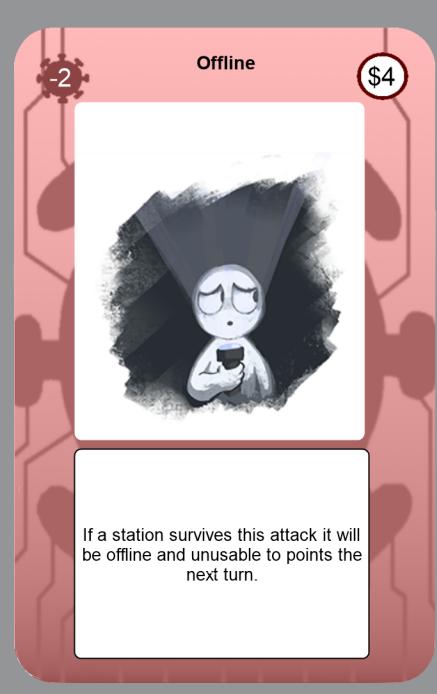
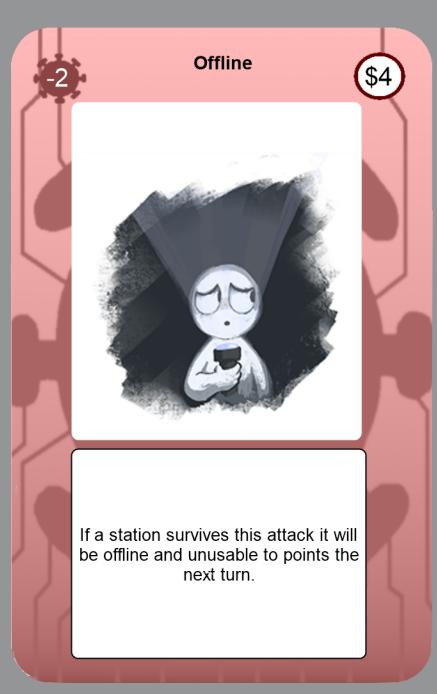
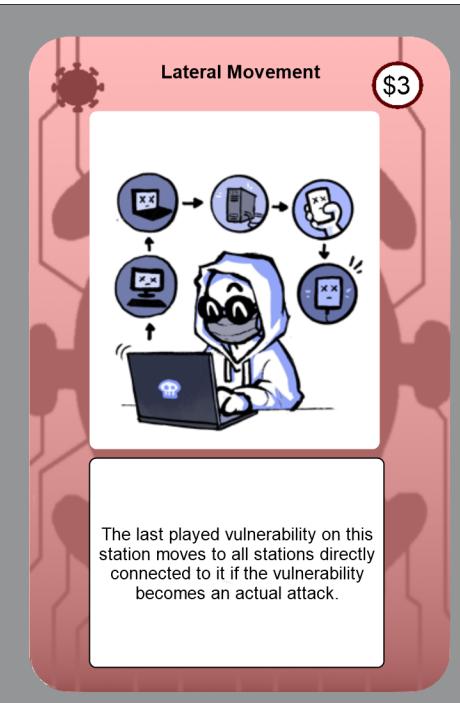


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<p>1 Lesser Water Station</p> 	<p>-1 Vulnerable to Phishing \$1</p>  <p>Employees opened email and either clicked a link or opened an attachment sent from an attacker.</p>	<p>-1 Vulnerable to Phishing \$1</p>  <p>Employees opened email and either clicked a link or opened an attachment sent from an attacker.</p>	<p>-1 Vulnerable to Phishing \$1</p>  <p>Employees opened email and either clicked a link or opened an attachment sent from an attacker.</p>
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IT and ICS Security are the Same

-1 \$3

(Instant) -1! They're different! IT business security prioritizes confidentiality and ICS security prioritizes safety, integrity, and availability. ICS devices are also commonly real time systems that may be up to 25-years old.

Insignificant Target

-1 \$3

(Instant) -1! It was too insignificant to be a target and wasn't worth attacking, but attackers found it anyway.

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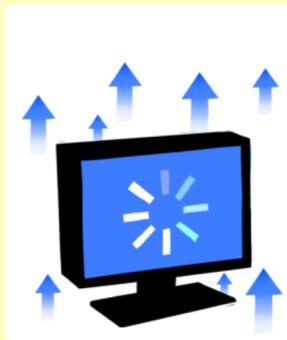
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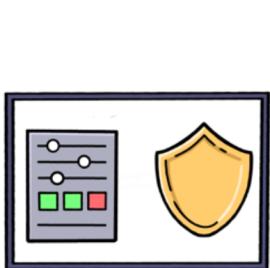
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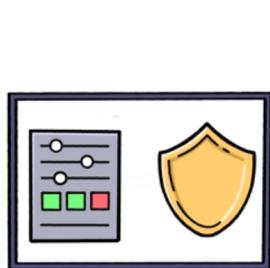
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Catch Rogue Employee



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Upgrade SCADA Access Authentication



+1 to station. Upgrade access authentication for SCADA (supervisory control and data acquisition) radio network so previous employees can no longer use it.

Upgrade Control System



Upgrade control system and information integrity to not accept outside/false messages that could be sent by attackers. Stops Brute Force I/O Attacks and Alarm Suppression.

