

Cyber Security Overview

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Board of Trustees Meeting

Cyber Security Overview

NYPA IT Cyber Security Group created 10 years ago

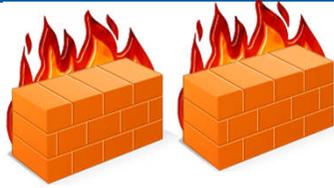
- Staffed by qualified cyber security subject matter experts
- Expertise in computer forensics, data recovery, data security, network security
- NYPA staff and contractors are given mandatory annual cyber awareness training
- Cyber Security Team publishes monthly security bulletins for all staff
- We work closely with the NY State cyber security staff
- I am the Energy Sector Chief for the FBI Infragard – a collaboration between public and private sectors and my staff are all members of FBI Infragard
- We practice layered security

Layered Security



The Internet

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Firewalls



Secure remote access



Internet filters

*Security
Operations
Center
Monitoring*



*Internal
Network & Desktop
Monitoring*

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*Cyber
Awareness
Training*



*Server &
Desktop
Firewalls*



*Server &
Desktop
Lockdown
Policies*



*Anti Virus
Software*

Tools to help

- Firewalls – we can block entire countries from knowing that we exist
- Security Operations Center – they monitor our critical assets 24x7x365 and alert us to anomalies
- Intrusion Prevention Devices – stops viruses or malware at a specific site and doesn't allow it to infect the rest of NYPA network
- Anti virus software runs on all servers and desktops, constantly checking for malware
- We perform our own penetration tests and vulnerability assessments, and also engage 3rd parties to try and “hack us”
- Recently installed hardware and software to mitigate against Distributed Denial of Service attacks
- Working with National Labs on desktop security solutions