Cyber Security Attack

Vessel Computer

Vessel Network

1 Exploit client-side application vulnerability to bypass corporate firewall

2 Exploit common firewall opening to access network and defeat "state"

Office Network

Active Directory Domain Services

3 Exploit unpatched server to capture credentials and hop across networks

4 Exploit vulnerable SCADA application software for complete control

SCADA 1 Server

SCADA 2 HMI

5 Use captured credentials to login to SCADA HMI and upload malicious code

6 Exploit vulnerable SCADA protocol and field device to execute unauthorized commands

PLC

Rest of Fleet & Office Network

Safety // FIRST

A GHINDRUD SHIPPING promise