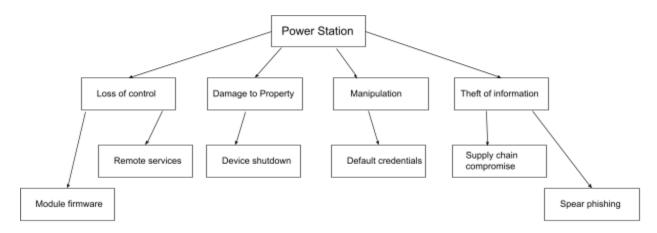
<u>Unit 4 seminar preparation - Threat modelling exercise</u>

A Large Nuclear Power Station in France

Attack Tree for identified threats to ICS in Critical Infrastructure (Mitre Att&ck, 2022)



Mitre Attack layer Simulation



Mitre Attack layer Simulation representing the vector of attack to cause Loss of control, Damage to property, Manipulation and theft of information (Dragos, 2022).

<u>Mitigations</u> would be to ensure data transfer is using one directional gateways, segmented network infrastructure, DMZ, air-gapped systems, cuckoo sandboxing for emails, ensure software bill of materials is in place for supply chain, all default passwords and credentials are changed immediately, access controls and MAC identification, Endpoint detection running on all non-air gapped assets, SIEM system is in place and collecting logs for analyzing, Safe ethernet cables are tested for malware and used.

References

Dragos Inc (2022) Developing a converged threat model using mitre att&ck. Available from: https://www.dragos.com/resource/developing-a-converged-threat-model-using-mitre-attack/ [09 Accessed]

Mitre ATT&CK (2022) ICS Matrix.Available from: https://attack.mitre.org/matrices/ics/ [Accessed 10 December 2022]