



Strål
säkerhets
myndigheten

Swedish Radiation Safety Authority

The Involuntary Insider

Aspects of an insider mitigation program

Jonas Sjöström, CPP

B.Sc. Security

Inspector Physical Protection



Insider definition

- ➔ Insider defined in NSS13 as:
- ➔ *“One or more individuals with authorized access to nuclear facilities or nuclear material in transport who could attempt unauthorized removal or sabotage, or who could aid an external adversary to do so”*



General measures

- ➔ Common methods consist of:
 - Pre-employment screening
 - Employee evaluation
 - Trustworthiness programs
 - Employee satisfaction programs
 - Culture (corporate/organizational/security)



The Involuntary Insider

- Can be found on site
- Has no intentions of being an insider
- Coerced through threats to person and/or family
- Being in the wrong place at the wrong time



Findings from Swedish field exercise

- Hostages taken in reactor building (switch room) and in main control room
- Adversary team had only basic knowledge about nuclear power reactors
- The involuntary insiders enhanced, significantly, the capabilities of the adversary team



Involuntary insider mitigation

- ➔ Administrative measures
 - Hostage policy and procedures
- ➔ Access control measures
 - Physical barriers preventing access (turnstiles)
 - Anti-passback (can only pass through once in a given set of time)
 - Limited rights of access (need-to-go)
 - Access request (remote authorisation by CAS)
- ➔ Warning and evacuation
 - Get staff out of the adversarys way



Swedish measures so far..

- Insiders in DBT – not in regulations
- Regulatory requirements for main control room:
 - Delay barriers
 - Ability to disable operations in main control room
 - Safe evacuation route
- Initiated a research project at the Swedish Defence College