

Sellafield Limited Security Preparedness / Response

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Head of Security and Resilience
Operations

Background

- 24 Years Service with British Army 1983 – 2007
- Security Consultant British Embassy Iraq (2007)
- Head of Training for G4S Secure Solutions Specialist Training (Middle East) (2007 – 2011)
- Advisor to the British, Canadian, Japanese and Norwegian Embassy's in Kabul on Security, Emergency Preparedness and Emergency Response (2009 – 2011)
- VVIP PPO to President of ADB, PPO to President of WB, British Prime Minister, British Foreign Secretary, President of Afghan Elections, Carlos Valenzuela (United Nations Election Expert), Ross Kemp (2007 – 2011)
- Joined Sellafield Limited as the Senior Security Specialist (2011 – 2015)
- Head of S&R for SFM (2015 – 2016)
- Head of S&R Training (2016 – 2017)
- Head of S&R Operations
- Capability Lead responsible for the Site Emergency Control Centre (SECC) Emergency Duty Teams (EDT). Hold position of Deputy Site Emergency Controller
- Hold the qualification 'Certificate in Terrorism' with St Andrews University, Member of the Security Institute and World Institute of Nuclear Security



Why Security?



UK Activity

- In the four year period between 2013 and 2016, 13 UK based attacks based attacks have been disrupted (strong evidence of Intent, capability & planning).
- Whereas in 2017, 10 UK based attacks were disrupted and there were 4 successful attacks in the UK.
- This increase is ISIS inspired and partially reflects their good quality propaganda/media campaigns . The targeting has been mainly directed at civilian (crowded places) and Police

ISIS - greatest threat to the UK

- ISIS, whilst their capability and capacity has been significantly reduced, Caliphate removed, they remain the greatest threat to the UK. ISIS remains a strong brand with 13 affiliated groups across the world. They have the capability to **inspire, enable** and **direct** attacks on the west.
- **Inspire**, very good use of social media, good quality propaganda with a clear target audience. Successful in inspiring others to act.
- **Enable**, people trained and experienced in action returning to the UK. (Inspired and enabled)
- **Direct**, complex and coordinate attacks, such as Paris.

AQ

- AQ remain a serious threat, active in 7 locations across the world, AQ Syria are considered the most capable. They have the intent and capability to conduct complex attacks. The UK remains a top tier target.
- Not as good at propaganda as ISIS.

Security Challenges



- 24,000 & growing resource profile
- 750 acres, bisected North to South by the River Calder.
- Nuclear Site Licence Boundary & Perimeter Security Fence is 13.6km in length
- 600 permanent buildings, in close proximity to each other.
 - 12,000 people access the site daily.
 - 6,000 vehicles access the site daily.
- 5,000 commercial vehicles access the site annually
 - **Whilst maintaining security, safety, financial, operational and environmental performance balance.**

Site NM Inventory



- Largest single Nuclear Material inventory in the world.
- Largest civil Category I site in the UK.
- Security categorised facilities are diversely located across site in support of operations.
- 7 - Category I Areas (Pu), multiple stores.
- 4 - Category II Areas - Plutonium Contaminated Material.
- 47 - Category III Areas - Intermediate Level Waste.
- 36 - Category IV Areas – Low Level Waste.
- >80 Security Categorised buildings.

Building Security Competence and Capability

Awareness:

- AKT Theatre Group – a contemporary ‘security’ play
- Stakeholder Engagement
- Increasing number of Security Liaison Officers
- Tool Box Talks
- Security Awareness Briefs
- Security Seminars
- Engagement with Centre for the Protection of National Infrastructure (CPNI)

Understanding:

- Zero tolerance approach - raising the bar
- Developing a ‘joint’ approach – MoU and Info Sharing Protocol
- Performance Management Process – making all employees accountable
- SeCuRE 2 Tool – monitor and manage the SL security culture

Competence:

- CNC – New Dawn
- Civilian Guard Force (CGF) – bespoke training and education
- Maturing a SL Security and Resilience Directorate – absorb SSEP, ‘outcome’ focussed, learning organisation
- Vetting – human reliability

Control of Sellafield Emergency Situations

- **Strategic** [Strategic Team Leader (STL)]
 - Sellafield team split between Strategic Management Centre (SMC) and Strategic Coordination Centre (SCC)
 - Leads on reputational and stakeholder management
 - SCC attended by Government Technical Advisor & ONR
 - Considers wider implications of an emergency + external response

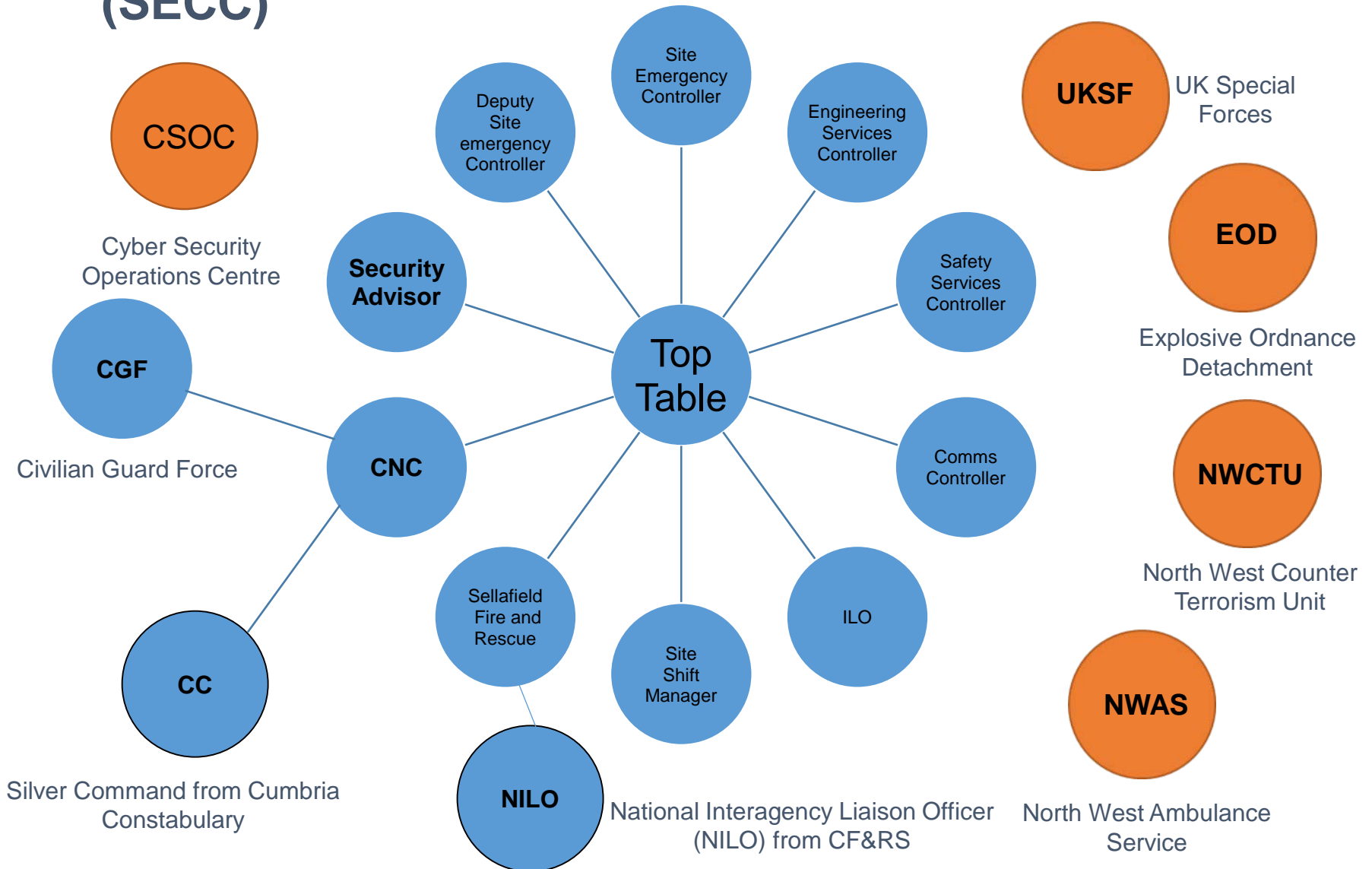
Control of Sellafield Emergency Situations (cont)

- **Tactical** [Site Emergency Controller (SEC)]
 - located in Site Emergency Control Centre (SECC)
 - externally trained/assessed in emergency management
 - manage site response to any incident
 - provide data and advice to SCC
- **Operational** [Incident Controller (IC)]
 - located at Incident Control Centre (ICC) with Access Control Point close to event (ACP)
 - control of actions to bring incident under control
 - operating units are responsible for local arrangements

Organisation of Emergency Duty Teams

- Shift based response available 24/7
 - Site Shift Manager (SSM) and initial manning of SECC
 - Incident control (local response)
- One of eight fixed duty teams on 24 hour standby
 - Tactical (Site) 25 members per team, maximum 1 hour from site
 - Strategic (Site) 4 members per team, maximum 1 hrs from site
 - Strategic (GOLD) 5 members per team, maximum 3 hrs from site
- Call out arrangements for additional key personnel e.g.
 - medical/HP&S/criticality/off-duty team members

Configuration of Site Emergency Control Centre (SECC)



Civil Nuclear Constabulary (CNC)



Civil Nuclear Constabulary (CNC) Mission

In partnership with the civil nuclear industry, national security agencies and regulatory bodies the CNC will **deter** any attacker whose intent is the theft or sabotage of nuclear material, whether static or in transit, or the sabotage of high consequence facilities. If an attack occurs, the CNC will **defend** that material and those facilities and **deny** access to them. If material is seized or high consequence facilities are compromised, the CNC will **recover** control of those facilities and regain custody of the material.

Generic Firearms Gold Strategy

- Maintain the security of nuclear material
- Maximise the safety of the site workforce
- Maximise the safety of police officers
- Minimise the risk to site intruders
- Develop intelligence to accurately ascertain the nature of the threat
- Arrest suspected offenders
- Secure and preserve evidence of offences committed
- Return to normality as soon as practicable

Sellafield Fire and Rescue Service



Sellafield Fire & Rescue Service Key Equipment

- Fire appliances
- Chemical incident unit
- Foam tenders
- Ambulance + servicing spare
- Urban Search and Rescue Trailers -SF&RS fire-fighters trained at Disaster City, Texas in 2006/7
- Strategically placed mobile bulk water storage tanks

SF&RS Key Capabilities

- Fire & Rescue Response (inc chemotoxic)
- Medical Response
- Rope Rescue
- Lift Rescue
- Swift Water Rescue
- Urban Search and Rescue
- Self Contained Breathing Apparatus (SCBA) & Fire Extinguisher Training
- Fire Prevention advice and standard setting

Civilian Guard Force (MITIE)



Civilian Guard Force

- Purpose;

To provide a number of non armed services to the SLC in order to maintain compliance with regulation and the Nuclear Site Security Plan.

- Control access to site via main & temp construction gates
 - Pass checks
 - Vehicle/personnel searches
 - Traffic management
 - Emergency Response (SGMS, VBIED etc)
- Control personnel access into Cat 1 plants (& HSA)

Cumbria Constabulary Nuclear Estates Team



CUMBRIA
CONSTABULARY
SAFER STRONGER CUMBRIA

The Role of Cumbria Constabulary Nuclear Estates Team

“Cumbria Constabulary is the Home Office police force for Cumbria with responsibility for upholding the law, preventing crime and antisocial behaviour, keeping the peace, protecting and reassuring communities, investigating crime and bringing offenders to justice. As part of these arrangements, CC will take the lead in policing the site”

Cumbria Constabulary Nuclear Estates Team

- The CCNET is made up of a number of officers
- These include Sgt, PCs and DC
- These provide a full cover for policing matters relating to Sellafield
- All officers applied to be posted to the CCNET and are experienced officers, who have joined the CCNET from a variety of backgrounds within Cumbria Constabulary, including CID, Community Policing and Response Policing
- Supported by the full range of resources from Cumbria Constabulary.

How do we ensure a measured performance?

- Adoption of a consequence-based approach to Security, Safety, Resilience and Emergency Management
- Site Emergency Exercises up to 4 per year, 2 of which are Office of Nuclear Regulation (ONR) witnessed (level 1).
 - Annual security exercise for Security Regulator (ONR)
 - Annual safety exercise for Security Regulator (ONR)
 - Annual Roll Call and Communication exercise
 - Annual chemical spillage exercise for Environmental Agency
- District/National Emergency Exercises every 3 years
- SQEP Exercises for each fixed team (externally assessed by specialist command and control training provider)
- Continuous competency assessments
- Local emergency exercises (security and safety)

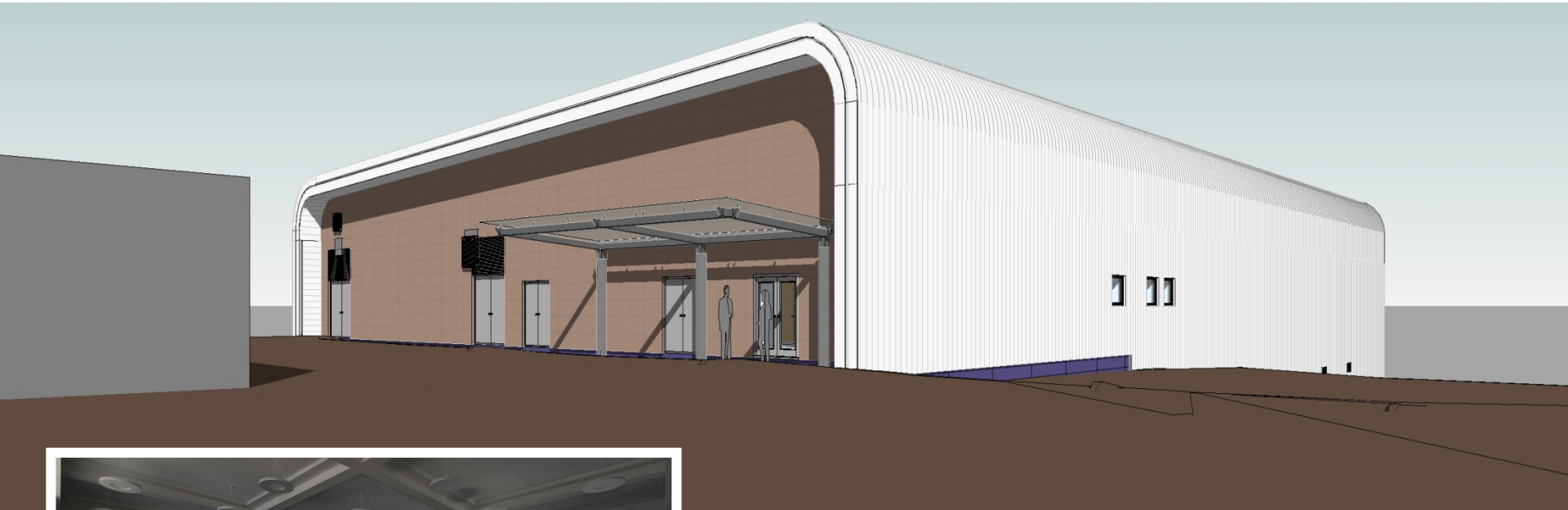
Exercises



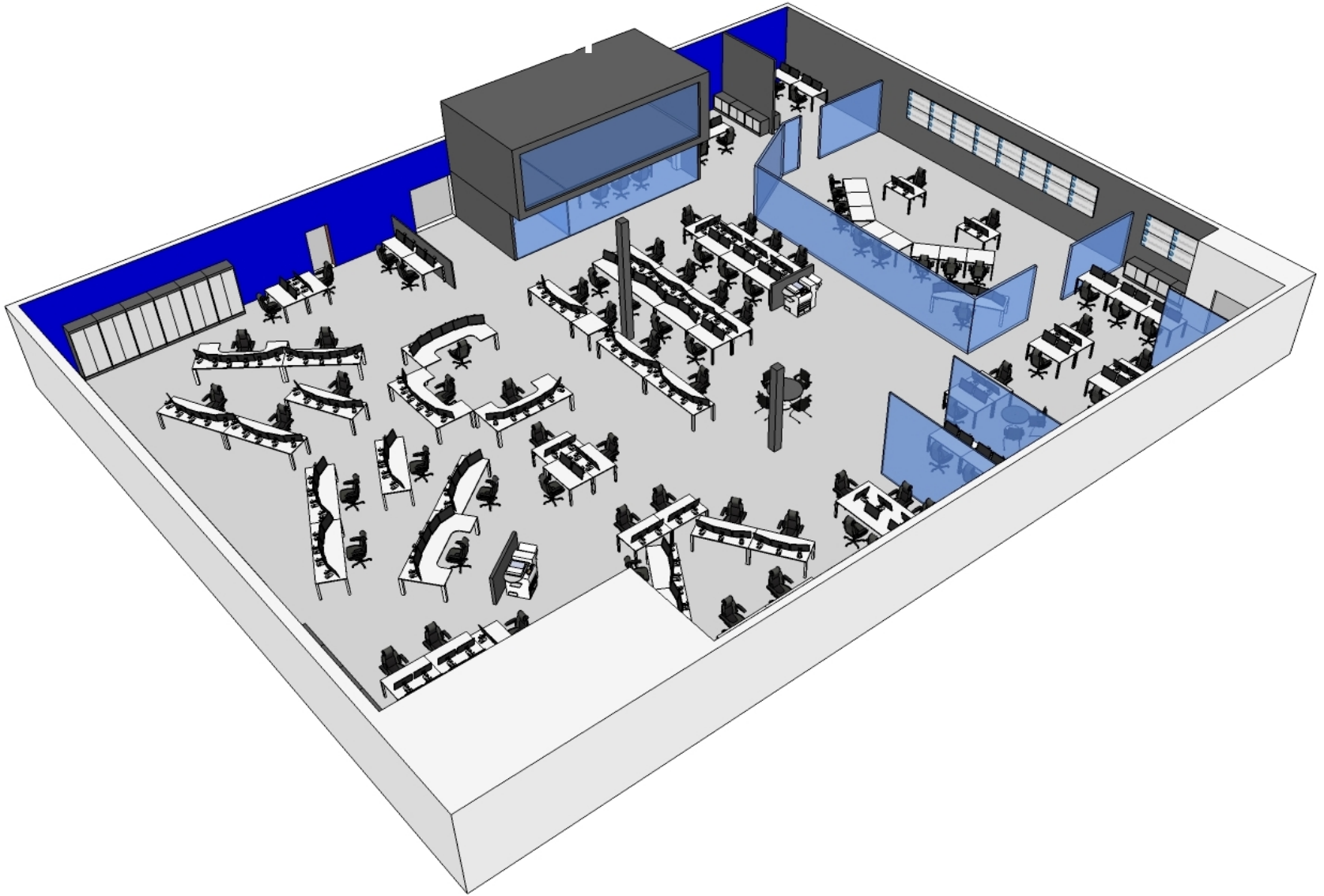
How do we ensure a measured performance? (continued)

- Consistency between SL, CNC and CC emergency and security response
- Civilian Guard Force (CGF) Penetration Exercising
- Trained Exercise Evaluators
- Trained Assessors
- Internal Site Assurance Inspections
 - Tier 1 – Self Evaluation
 - Tier 2 – Process Assurance
 - Tier 3 – Independent Assurance
- Office for Nuclear Regulation (ONR) Regulated

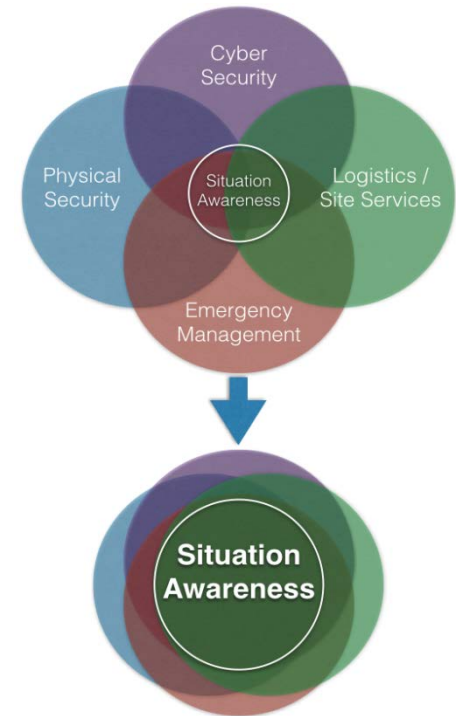
Main Site Command Facility (MSCF) - Vision



“The resilient, digitised hub for Sellafield’s unified Security and Resilience Operations, Emergency Response and Recovery”.



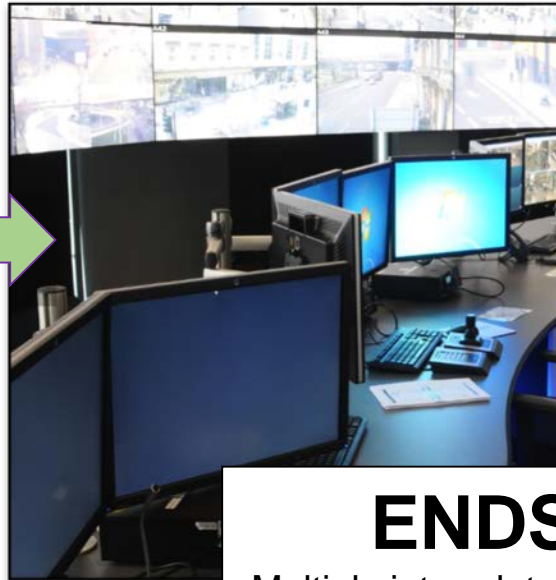
Benefits of Co-location



Unified Command and Control Benefits



PAST



ENDSTATE
Multiple interrelated benefits delivered through *enhancements in processes, organisation, technology and information flows.*



Summary

- Established and mature Emergency Arrangements
- Well drilled emergency responders
- Challenging, credible and realistic exercise programme
- Robust Assurance
- Underpinned by a culture of continuous improvement
- Confidence in ability to deal with event / emergency

End of Presentation

Questions?