

Northamptonshire Fire and Rescue Service



CFO Martyn Emberson







Aims

- Outlining our Journey of introducing Cutting Extinguishing Concept (COBRA, Thermal imagery and Positive Pressure Ventilation) into the culture of the Fire and Rescue Service
- Exploring incidents where this new Cutting Extinguishing Concept has been used
- Sharing with you the lessons we have learned on that journey







Northamptonshire Fire and Rescue Service

Northamptonshire:

- Approx. 2400km²
- 700,000 population
- Six larger towns 20,000 +
- Northampton 210,000
- 580 Firefighters
- 22 Fire Stations
- 8 Full-time
- 14 Part-time (19 sections)









Northamptonshire















Northamptonshire FRS and Cobra



- Pioneering Cobra use in the UK
- Fleet size:
- Standard pumps with Cobra:
- Rapid Response with Cobra:
- Thermal, Camera and PPV on all
- 5 Years of Cobra development
- 2 year EU FF II Project
- CCS Cobra training provider/Academy



28

15

3











Släckförsök mot husbrand

Test with constructionfire







NFRS Standard Fire Appliance













UK Firefighter fatality incidents

Hertfordshire (2005) Harrow Court Warwickshire (2007) Atherstone

Southampton (2010) Shirley Towers







2004 – 2010: 14 UK Firefighter fatalities as a result of fire behaviour related events







Actions before delivery of first Cobra vehicles:

<u>2007</u>

- NFRS near miss
- Project to identify new innovation
- Identification of Cobra equipment
- Research into system and potential capability

<u>2008</u>

- Strategic implementation Plan
 - Risk Assessment
 - Standard Operating Procedure
 - Training programme
- Ordered first 3 Cobra frontline appliances









- Delivery of first 3 Cobra appliances in January
- Instructor training and operator course development
- Technician and Service training
- Delivery of initial operator training courses
- Delivery of Incident Commander training
- Delivery of 3 additional Cobra fire appliances in September (accelerated vehicle replacement)
- European FireFight II Project

6 operational Cobra fire appliances by end of 2009









- Delivery of additional 3
 Cobra appliances
- Delivery of 1 Rapid
 Response Vehicle
- Development of training facility
- CCS Cobra training provider
- 10 operational Cobra appliances by end of 2010

<u>2011</u>

- Delivery of 3 further
 Cobra appliances
- Development of Cobra
 Training Academy and
 Command Development
 Centre
- 13 operational Cobra appliances by end of 2011









- Development of Tactical Fire Fighting Training Centre
- Development of second generation Cobra Rapid Response vehicles (2 on order)
- Delivery of 3 further Cobra appliances
- Research preparation for EU FF III Project
- Current Position 16 operational Cobra appliances and 2 further appliances on order







Implementation Considerations

Implementation into NFRS:

- Clear strategic objective to improve Firefighter safety
- Aim complete organisational integration
- Critical Mass a key element
- Appropriate, Risk Assessed and Safe System of Work
- Education and training essential at every level
- Communication is the key
- Recognition of Culture and resistance to change; embedding as an additional piece of equipment and additional tactic







Progressive Integrated Training Programme









NFRS Command Development Centre





Simulated Incident Command Training

 Cobra tactics and equipment fully integrated using XVR complete immersion software









FIREFIGHT II

Lifelong Learning Programme

October 2009 – EU FF II Project partners

- Accept only safe working environment for Firefighters
- Early response and improved efficiency
- Limit secondary damage from water and smoke
- Minimise environmental consequences of Fire Fighting









Practical Training

- Static training venue
- Mobile 20' container -Hook loader Skid
- Temperature monitor











Northamptonshire Fire and Rescue Service



Incidents with Cobra Deployment







The Cobra System Incident Deployments

- All building and compartment fires – ventilated or unventilated
 - Highrise building fires
 - Roof and ceiling fires
 - Basement and underground fires
 - Container fires
 - Thatch roof fires
 - Deep seated fires
 - Vehicle fires



- Chimney fires
- Silo fires
- Ducting/ventilation shafts
- Difficult access/hidden fires
- Insulated walls/LISP's
- Inter-agency Deployments







Incident - A45 Lorry & Vehicle









Catalent Pharma Solutions, Corby



Development, manufacture and packaging services for pharmaceutical, biotechnology and consumer health companies







































































Final Consideration

Safer Fire Fighting Better for the Environment Culture Change

- Technology simple
- Integration into every day
- Reason for introduction Firefighter Safety
- Easier to use than not use
- Communication
- Visible Leadership

Options for the future

- Change Response Model
- Review Fleet
- Make Financial Savings







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