Precision Strike Review

“PRECISION EFFECTS”

Air Vice-Marshal Nigel Day RAF (Rtd)
Senior Defence Adviser
“Capability”?

UK Air 1915 – 2000

STORM SHADOW

UK Air 2000 +
• “Capability”?
“CAPABILITY”?

NCW?
NEC?
“CAPABILITY”?
"CAPABILITY"?

NETWORK + EFFECT = CAPABILITY
• “Capability”?  
• UK Air 1915 – 2000
NETWORK - 1915
EFFECTS - 1915
UK AIR 1915 - 2000

**NETWORK**

**EFFECT**

1915 Basic Dumb Weapons
## UK AIR 1915 - 2000

<table>
<thead>
<tr>
<th>NETWORK</th>
<th>EFFECT</th>
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<tbody>
<tr>
<td>1915</td>
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<td>1990</td>
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UK AIR 1915 - 2000

PAVE WAY PRECISION WEAPONS

• USA 60s

• RAF 80s
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<td>2000</td>
<td>TDL</td>
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</tbody>
</table>
PRECISION EFFECT

• The Required Effect, no more, no less

• At Required Time, for Required Time, 24/7

• Across range of Decisive Opportunities
• “Capability”?
• UK Air 1915 – 2000
• STORM SHADOW
STORM SHADOW

1. Missile air launched from maximum range of 155 miles (250km).
2. Pilot leaves area before entering air defences danger zone.
3. Missile navigates with GPS and digital terrain matching technology.
4. Final target identified by infra-red nose cone camera.
5. Two-stage warhead punctures external shell, then detonates inside target.
STORM SHADOW

AIR DEFENSE SECTOR HEADQUARTERS, IRAQ

PRE STRIKE

POST STRIKE

WE217962
STORM SHADOW

PRECISE EFFECT

2003 Storm Shadow first used in Operation TELIC
PRECISION EFFECTS

- “Capability”?
- UK Air 1915 – 2000
- STORM SHADOW
- UK Air 2000 +
UK AIR 2000+

BRIMSTONE

2005
UK AIR 2000+

No Escape Zone

Range

Speed

Current MRAAMs

METEOR

Not to Scale

‘Network Enabled Weapon’
UK AIR 2000+

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2020  Precision Decisions, Precision Effects
(< ? Minutes Kill Chain)
Precision Strike Review

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