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# *NORAD: Moving Forward with Risk Reduction*

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**NOTE: This brief incorporates NORAD & USNORTHCOM specific equities. It does not encompass DOD-wide equities.**



## *Example N-NC Risk Reduction Initiative*

### **Next Generation Over-the-Horizon-Radar Technical Risk Reduction Initiative (NGOTHR TRRI)**

- In 2006 J5 submitted an Advanced Capability Technology Demonstration (ACTD) proposal to build a prototype system; low technical readiness levels (TRL) in key areas prevented approval
- N-NC/J5, FSSC & Air Force Research Labs then developed a two-phased proposal to identify and mitigate technical risks as well as gain confidence for a prototype radar
- TRRI Phase 1 was designed to provide: A technical roadmap, a prototype radar system, an advanced radar & atmospheric modeling/simulation program and recommend various 2D antenna array configurations; Phase 1 would procure and utilize an Australian-designed test bed system
  - \$5.2M was funded in FY09 by: OSD, Navy, USAF and the Department of Homeland Security. Expected completion: summer 2010



## *Example N-NC Risk Reduction Initiative (cont)*

### **Next Generation Over-the-Horizon-Radar Technical Risk Reduction Initiative (NGOTHR TRRI)**

- **TRRI Phase 2: Investigates 2D arrays at operational power levels, studies ionospheric effects & signal processing techniques & tests hardware in the US atmospheric environment**
  - **TRRI Phase 2 will cost \$11.8M; it is expected to take 18-24 months after funding is received in FY11; Expected results: Raised technical readiness of key technologies, tech risk areas mitigated, sizing/cost estimates for building a full-power prototype NGOTHR system**
- **Ultimately, TRRI Phase 1 and 2 should improve TRLs to a point that would lead to an operational NGOTHR prototype system**
- **N-NC briefed TRRI Phase 2 status & requested support/funding during the 9 Apr 09 Joint Requirements Oversight Council mtgs**
- **TRRI Phase 2 was N-NC's #2 FY09 unfunded request**



## *Risk Reduction Teams, Initiatives & Projects*

- **Wind Farm Interference and Mitigation Projects**
- **Interagency Wind Farm Policy Development Teams**
- **DHS/OSD Interagency Surveillance Summits**
  - **Next: Air Domain Awareness Summit in January 2010**
- **Capability Development Working Group**
- **CANUS Surveillance Working Group**
- **Integrated Air & Missile Defense (IAMD) Roadmap and IAMD Synchronization Teams**
- **Simulation, Modeling & Testing Projects/Events**
  - **Air & Marine Operations Center; DHS & OSD S&T Teams**
- **Integrated Surveillance Study Team (ISST)**
- **National Strategy for Aviation Security (NSAS)**



*Questions?*

