

# ***Headquarters U.S. Air Force***

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*Integrity - Service - Excellence*

## **SAF/AQRT Technology Integration Branch Orientation**

**Year of the Air Force  
Family**



**Lt Col Scotty Nowlin  
SAF/AQRT  
April 2010**

UNCLASSIFIED



- **Org Charts**
- **Branch Focus**
- **OSD and AF Technology Transfer & Transition Resources/Processes**
- **Summary**



**USAF Leadership (Secretary & Undersecretary, Chief and Vice Chief)**

**SAF/AQ** (Assistant Secretary of the AF for Acquisitions) *SES*

Air Force Materiel Command

**Principal Deputy** *SES*

**Deputy**

**AQE** (Executive Action Group)

**RCO** (Rapid Capabilities Office) *SES*

**AFPEO/WP** (Weapons)   
**AAC** (Air Armament Center)

**AFPEO/AC** (Aircraft Systems)   
**ASC** (Aeronautical Systems Center)

**AFPEO/C2&CS** (C2 & Combat Spt Sys.)   
**ESC** (Electronic Systems Center)

**AFPEO/JSF** (Joint Strike Fighter)

**AFPEO/CM** (Combat & Mission Spt)

*Functional Directorates*

**AQC** (Contracting) *SES*

**AQL** (Special Programs)

**AQR** (Sci, Tech, & Engineering) *SES*

**AF PM&AE** (Prog Mgt & Acq Ex) *SES*

**AQX** (Acquisition Integration) *SES*

**ACPO** (Acq Chief Process Office)

*Capability Directorates*

**AQI** (Information Dominance) *SES*

**AQP** (Global Power)

**AQQ** (Global Reach)



**Deputy Assistant Secretary  
(Science, Technology & Engineering),  
“Air Force Chief Engineer” (SAF/AQR):  
*Dr Steven H. Walker***

**Associate Deputy Assistant Secretary:  
*Col James Collins***

**Tech Assessment Support (AQRE): *Col Shawn P. Shanley***

**Strategy (AQRS): *Col(s) Ralph Sandfry***

**Science and Technology (AQRT): *Col Alexander Giczy***

**S&T Branch: *Mr John Haynes***

**Technology Integration Branch:  
*Lt Col Scott Nowlin***



# ***Technology Integration Branch Focus***

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- **Provide flexible processes to support rapid revolutionary development (“push”) without disrupting long-term evolutionary development (“pull”)**
- **Ensure earlier transfer/transition planning using Early Systems Engineering principles to structure projects for success**
- **Integrate and manage AF-wide transfer and transition policies and processes**
- **Fill the “valley of death” with DoD enterprise initiatives/resources**
- **Work towards the management of the portfolio of AF and OSD transition resources as a single “program” under clear authority and accountability to provide prioritization, enhance visibility, and avoid duplication**
- **Enable the HAF/SAF to better serve our ultimate customers – MAJCOMs, COCOMs, taxpayers – with warfighting capabilities!**



# Partial List of OSD & AF Transition Resources

~BA:	6.1		6.2			6.3		6.4		6.5		6.7	
~TRL:	1	2	3	4	5	6	7	8	9				
~MRL:	1	2	3	4	5	6	7	8	9	10			

## OSD Funding and Program Management

*Technology Transfer Mechanisms* ☆ [AQR, AFRL/CC]

*DoD Technology Transfer to Private Sector*

*Defense Advanced Research Projects Agency (DARPA)*

*Bridge Revolutionary R&D from Discovery to Use*

*Experiments & Tech Integration for COCOMS:*

*Emerging Capabilities Fund (ECF)*

*Test & Field Emerging Technologies:*

*Rapid Reaction Fund (RRF)*

*Quick Reaction Funds (QRF)* ☆[AQR]

*Combatant Command/Joint/Coalition Focus:*

*Joint Capabilities Technology Demonstrations (JCTDs)* ☆[AQ]

*Mature Defense High-Impact Processes:*

*Manufacturing Science & Technology (MS&T)*

*Mature DoD Laboratory Technologies (Lab Push):*

*Tech Transition Initiative (TTI)* ☆[AQR]

*Industry “On” Ramp - Test to Procure, Tech Refresh:*

*Defense Acquisition Challenge (DAC)* ☆[AQR]

*Coalition Industry with Mature Technology - Test to Procure:*

*Foreign Comparative Testing (FCT)* [IA]

*Essential Domestic Technologies with National Security Implications:*

*Title III-Defense Production Act (DPA)* ☆[AQR]

## USAF Funding and Program Management

*Core Process 3 (CP3)* [AFRL/CC]

*Accelerate AFRL Technology Transitions*

*Adv Tech Demos (ATD)* [MAJCOM, AFRL]

*Develop and Mature Technology Options for Transition*

*Bridge-Fund Transition Commitments:*

*Technology Transition Program (TTP)* ☆[AQ]

*Develop & Field (Acquire) Innovative Concepts to Support Warfighters :*

*Warfighter Rapid Acquisition Program (WRAP)* [CSAF]

☆ SAF/AQRT Technology Integration Branch is AF OPR, with AF project selection authority in [ ]



# Tech Transfer/Transition from Science to Capabilities

## AF S&T Strategy

Science &  
Knowledge



Technologies



Capability  
Concepts



Service Core  
Function  
Capabilities

**Tech Transfer  
Mechanisms**

**Tech Transition Initiative,  
Defense Acquisition Challenge,  
AF Tech Transition Program**

**Quick Reaction Funding,  
Joint Capability Tech Demos  
Warfighter Rapid Acquisition Program**

Transfers/  
Transitions to:

- AFRL
- Industry
- Academia

- Product Centers
- Industry

- Programs of Record
- Fielded Systems
- AF/Joint Ops

- AF/Joint Ops



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- **SAF/AQR coordinates multiple programs, processes, and policies to enhance and accelerate technology transition opportunities serving the COCOMs/MAJCOMs**
  
  - **Programs within OSD and the AF provide a variety of technology transition opportunities**
    - **Processes focus expertise to provide an AF technology transition “single face to the customer”**
    - **Policy will align the right programs/processes to the right domain and end-state**