

# Military Space Programs, Budgets and Oversight Issues

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# Major Force Programs (MFPs): Overview

- Aggregation of program elements that reflects a force or support mission of DoD
- Contains the resources necessary to achieve an objective or plan
- Reflects fiscal time-phasing of mission objectives to be accomplished

Program 1—Strategic Forces\*

Program 2—General Purpose Forces\*

Program 3—Command, Control, Communications, Intelligence, and Space\*

Program 4—Mobility Forces\*

Program 5—Guard and Reserve Forces\*

Program 6—Research and Development

Program 7—Central Supply and Maintenance

Program 8—Training, Medical, and Other General Personnel Activities

Program 9—Administration and Associated Activities

Program 10—Support of Other Nations

Program 11—Special Operations Forces\*

**Program 12 — National Security Space**

Combat force program

*Source: DAU*

# MFP-12: National Security Space

- “Soft” MFP for space was established by DOD in 2001 in response to the Space Commission report
- FY16 NDAA mandated (1) formal establishment of MFP and (2) annual budget assessment reporting requirement to Congress
  - Year-over-year comparison; significant changes, challenges, risks, etc.
  - Due NLT 30-days after budget submission
  - Requirement expires after FY21 submission
- Unclassified lines only; MIP and SAP space programs not included
- Logical basis from which to draw Space Force funding lines

# FY20 Budget Key Space Highlights

- Funding for MFP-12 increased **22.8%** over FY19
- Establishment and funding for the **United States Space Force**
- Funding for the new **Space Development Agency**
- Establishment of a new program of record, **Enterprise Ground Services (EGS)**
- Establishment of Air Force's next-generation missile warning system - **Next Generation Overhead Persistent Infrared (Next-Gen OPIR)**
- Significant funding for **National Security Space Launch (NSSL)**
- Procurement of additional **PNT** capability with 3 next-gen vehicles funding in FY20
- Minor modifications to **Major Force Program 12** structure for National Security Space

# United States Space Force

AGENCY	ACCOUNT TITLE	LINE ITEM	PBR 2019	FYDP 2020 (From FY19 PBR)	2019 NDAA	2019 APPR	PBR 2020 Base	PBR 2020 OCO	PBR 2020 Total
AIR FORCE	O&M, Space Force	Base Support*					\$ 72.4		\$ 72.4
*New MFP12 Line			\$ -	\$ -	\$ -	\$ -	\$ 72.4	\$ -	\$ 72.4

- Proposes establishing the U.S. Space Force (USSF) as a **sixth branch of the Armed Forces within the Department of the Air Force**
- USSF will be responsible for **organizing, training, and equipping military space forces** to:
  - Provide for freedom of operation in, from, and to the space domain
  - Provide independent military operations for joint and national leadership
  - Enable the lethality and effectiveness of the joint force
- Creates a **civilian Under Secretary of the Air Force for Space** appointed by the President with the advice and consent of the Senate to provide dedicated civilian supervision of the USSF
- Creates a **Chief of Staff of the USSF in the grade of General** who will be a member of the Joint Chiefs of Staff (JCS) and will serve as the JCS expert on and advocate for space power
- The standup of the Space Force will be **phased over five years** – FY 2020 to FY 2024
  - Requests \$72.4M for approximately 200 personnel to stand up the USSF headquarters in FY20
  - Mission transfer in FY 2021 and FY 2022
  - Additional build out of the force in FY 2023 and FY 2024
- Total additional cost growth over the next five years is estimated by Administration to be **less than \$2B**

# Space Development Agency

AGENCY	ACCOUNT TITLE	LINE ITEM	PBR 2019	FYDP 2020 (From FY19 PBR)	2019 NDAA	2019 APPR	PBR 2020 Base	PBR 2020 OCO	PBR 2020 Total
SDA	O&M, DW	Space Development Agency*	\$ -	\$ -	\$ -	\$ -	\$ 44.8		\$ 44.8
SDA	RDT&E	Space Science and Technology Research and Development*	\$ -	\$ -	\$ -	\$ -	\$ 20.0	\$ -	\$ 20.0
SDA	RDT&E	Space Technology Development and Prototyping*	\$ -	\$ -	\$ -	\$ -	\$ 85.0	\$ -	\$ 85.0
*New MFP12 Line							\$ 149.8		\$ 149.8

- **Established on March 12, 2019** under the authority, direction, and control of the Under Secretary of Defense for Research and Engineering (USD(R&E))
- SDA will define and monitor the Department's future threat-driven space architecture and will **accelerate the development and fielding of new military space capabilities** necessary to ensure technological and military advantage in space for national defense
- First Director of SDA is **Dr. Fred G. Kennedy**, who was reassigned from his position as the Director of the Tactical Technology Office at the Defense Advanced Research Projects Agency
- **Initial resources for staffing SDA (\$44.8M)** will be funded in the Operations & Maintenance Defense-wide account
- Funding for the initial set of technology investment will be executed by the SDA in two new program elements:
  - **Space Science and Technology R&D (\$20.0M):** for Proliferated Low Earth Orbit (pLEO) Sensor Technology to demonstrate LEO sensor technologies
  - **Space Technology Development and Prototyping (\$85.0M):**
    - To develop Transport Layer Architecture and Standards (\$15.0M)
    - Space Situational Awareness and Launch to work with commercial providers to develop and demonstrate enhanced SSA and small-to-medium launch service access to provide SSA on large numbers of small satellites in LEO (\$10.0M)
    - LEO Missile Warning Ground Integration to develop and demonstrate a prototype MW ground infrastructure compatible with a pLEO sensor infrastructure (\$30.0M)
    - Space-Based Interceptors assessment (\$15.0M)
    - Space-Based Discrimination assessment (\$15.0M)

# Launch Funding & Oversight Issues (-11.2%)

AGENCY	ACCOUNT TITLE	LINE ITEM	PBR 2019	FYDP 2020 (From FY19 PBR)	2019 NDAA	2019 APPR	PBR 2020 Base	PBR 2020 OCO	PBR 2020 Total
AIR FORCE	O&M	Launch Facilities	\$183.8		\$183.8	\$183.8	\$180.0	\$0.4	\$180.4
AIR FORCE	PROCUREMENT	Evolved Expendable Launch Veh(Space)	\$994.6	\$1,177.7	\$994.6	\$954.6	\$1,237.6	\$0.0	\$1,237.6
AIR FORCE	PROCUREMENT	Spacelift Range System Space	\$117.6	\$131.1	\$117.6	\$117.6	\$118.1	\$0.0	\$118.1
AIR FORCE	PROCUREMENT	Rocket Systems Launch Program	\$47.6	\$11.5	\$47.6	\$47.6	\$11.5	\$0.0	\$11.5
AIR FORCE	PROCUREMENT	Evolved Expendable Launch Capability	\$710.0	\$710.0	\$710.0	\$660.0	\$0.0	\$0.0	\$0.0
AIR FORCE	RDT&E	Spacelift Range System (SPACE)	\$10.6	\$10.8	\$10.6	\$20.6	\$10.8	\$0.0	\$10.8
AIR FORCE	RDT&E	Rocket Systems Launch Program (SPACE)	\$19.7	\$17.7	\$19.7	\$19.7	\$13.2	\$0.0	\$13.2
AIR FORCE	RDT&E	National Security Space Launch Program (SPACE) - EMD	\$245.4	\$196.4	\$245.4	\$445.4	\$432.0	\$0.0	\$432.0
			\$2,329.4	\$2,255.2	\$2,329.4	\$2,449.4	\$2,003.3	\$0.4	\$2,003.7

- Per the FY19 NDAA, the FY20 PBR renames the Evolved Expendable Launch Vehicle (EELV) program the “National Security Space Launch Program”
- Procurement funding for the NSSL program is up +24.4% over projected levels (**\$1.2B**)
- RDT&E funding for the NSSL program is up +120% over projected levels (**\$432.0M**)
- Redirects funding for the Payload Adapter Long Duration Propulsive ESPA (LDPE) to the Space System Prototype Transition program, a new start in FY20
- The RDT&E funding line for the Rocket Systems Launch Program is down -25.4% from expected levels (**\$13.2M**)

# PNT Funding & Oversight Issues (-4.9%)

AGENCY	ACCOUNT TITLE	PE #	LINE ITEM	PBR 2019	FYDP 2020 (From FY19 PBR)	2019 NDAA	2019 APPR	PBR 2020 Base	PBR 2020 OCO	PBR 2020 Total
AIR FORCE	PROCUREMENT	GPSIII	GPS III Space Segment	\$ 69.4	\$ 773.4	\$ 69.4	\$ 69.4	\$ 31.5	\$ -	\$ 31.5
AIR FORCE	PROCUREMENT	GPSSPC	Global Positioning (Space)	\$ 2.2	\$ 2.2	\$ 2.2	\$ 2.2	\$ -	\$ -	\$ -
AIR FORCE	PROCUREMENT	MGPS00	Global Positioning (Space)	\$ -	\$ -	\$ -	\$ -			
AIR FORCE	RDT&E	1203269F	GPS III Follow-On (GPS IIIF)	\$ 451.9	\$ 474.2	\$ 433.9	\$ 426.9	\$ 462.9	\$ -	\$ 462.9
AIR FORCE	RDT&E	1203165F	NAVSTAR Global Positioning System (Space and Control Segments)	\$ 8.9	\$ 2.0	\$ 8.9	\$ 8.9	\$ -	\$ -	\$ -
AIR FORCE	RDT&E	1203164F	NAVSTAR Global Positioning System (User Equipment) (SPACE)	\$ 286.6	\$ 240.7	\$ 286.6	\$ 256.6	\$ 329.9	\$ -	\$ 329.9
AIR FORCE	RDT&E	1203265F	GPS III Space Segment	\$ 144.5	\$ 42.4	\$ 144.5	\$ 144.5	\$ 42.4	\$ -	\$ 42.4
AIR FORCE	RDT&E	1206423F	Global Positioning System III - Operational Control Segment	\$ 513.2	\$ 402.1	\$ 513.2	\$ 513.2	\$ 445.3	\$ -	\$ 445.3
ARMY	RDT&E	1206120A	Assured Positioning, Navigation and Timing (PNT)	\$ 146.3	\$ 80.9	\$ 146.3	\$ 128.6	\$ 192.6	\$ -	\$ 192.6
AIR FORCE	Procurement	GPS03C	GPSIII Follow On*	\$ -	\$ -	\$ -	\$ -	\$ 414.6	\$ -	\$ 414.6
*New MFP12 Line				\$ 1,623.1	\$ 2,018.0	\$ 1,605.1	\$ 1,550.4	\$ 1,919.2	\$ -	\$ 1,919.2

- Continues strategy to leverage RDT&E funding line to deliver GPS-IIIF SVs 11-12 and conduct associated NRE (**\$462.9M**)
- Creates a new procurement funding line to acquire SVs 13+ and includes funding to procure first production satellite in addition to any recurring, SV specific support equipment and tooling (**\$414.6M**)
- Projects acquisition of 11 additional production satellites across the FYDP
- Moves Army's Assured PNT program into MFP-12 (**\$192.6M**)



# SATCOM Funding & Oversight Issues (+6.3%)

AGENCY	ACCOUNT TITLE	LINE ITEM	PBR 2019	FYDP 2020 (From FY19 PBR)	2019 NDAA	2019 APPR	PBR 2020 Base	PBR 2020 OCO	PBR 2020 Total
AIR FORCE	RDT&E	Polar MILSATCOM (SPACE)	\$ 27.3	\$ -	\$ 27.3	\$ 27.3	\$ 427.4	\$ -	\$ 427.4
AIR FORCE	RDT&E	Family of Advanced BLoS Terminals (FAB-T)	\$ 80.2	\$ 184.3	\$ 80.2	\$ 60.2	\$ 197.4	\$ -	\$ 197.4
AIR FORCE	RDT&E	Protected Tactical Service (PTS)	\$ 29.8	\$ 173.7	\$ 29.8	\$ 29.8	\$ 173.7	\$ -	\$ 173.7
AIR FORCE	RDT&E	Protected SATCOM Services (PSCS) - Aggregated	\$ 29.4	\$ 172.2	\$ 29.4	\$ 29.4	\$ 172.2	\$ -	\$ 172.2
AIR FORCE	RDT&E	Advanced EHF MILSATCOM (SPACE)	\$ 151.5	\$ 106.4	\$ 151.5	\$ 146.5	\$ 117.3	\$ -	\$ 117.3
AIR FORCE	RDT&E	Protected Tactical Enterprise Service (PTES)	\$ 51.4	\$ 105.0	\$ 51.4	\$ 46.4	\$ 105.0	\$ -	\$ 105.0
NAVY	PROCUREMENT	Fleet Satellite Comm Follow-on	\$ 66.8		\$ 66.8	\$ 60.3	\$ -	\$ 67.4	\$ 67.4
ARMY	RDT&E	SATCOM Ground Environment (SPACE)	\$ 12.1	\$ 8.6	\$ 12.1	\$ 12.1	\$ 34.2	\$ -	\$ 34.2
AIR FORCE	PROCUREMENT	Family of Beyond Line-of-Sight Terminals	\$ 27.9	\$ 32.1	\$ 27.9	\$ 27.9	\$ 34.0	\$ -	\$ 34.0
AIR FORCE	PROCUREMENT	Advanced EHF	\$ 29.8	\$ 31.9	\$ 29.8	\$ 29.8	\$ 29.8	\$ -	\$ 29.8
NAVY	RDT&E	Satellite Communications (SPACE)	\$ 39.2	\$ 47.3	\$ 39.2	\$ 34.2	\$ 15.9	\$ -	\$ 15.9
ARMY	PROCUREMENT	Smart-T (SPACE)	\$ 9.2	\$ 2.1	\$ 9.2	\$ 19.2	\$ 10.5	\$ 0.8	\$ 11.3
AIR FORCE	PROCUREMENT	MILSATCOM	\$ 11.3	\$ 11.1	\$ 11.3	\$ 11.3	\$ 11.1	\$ -	\$ 11.1
DISA	RDT&E	Teleport Program	\$ 2.3		\$ 2.3	\$ 0.7	\$ 6.2	\$ -	\$ 6.2
AIR FORCE	RDT&E	Combat Survivor Evader Locator	\$ 0.9	\$ -	\$ 0.9	\$ 0.9	\$ 2.0	\$ -	\$ 2.0
AIR FORCE	RDT&E	Wideband Global SATCOM (SPACE)	\$ 4.0	\$ 1.9	\$ 4.0	\$ 4.0	\$ 1.9	\$ -	\$ 1.9
AIR FORCE	PROCUREMENT	Wideband Gapfiller Satellites(Space)	\$ 61.6	\$ -	\$ 61.6	\$ 12.1	\$ -	\$ -	\$ -
AIR FORCE	RDT&E	Midterm Polar MILSATCOM System	\$ 383.1	\$ 446.5	\$ 383.1	\$ 383.1	\$ -	\$ -	\$ -
AIR FORCE	RDT&E	Commercial SATCOM (COMSATCOM) Integration*	\$ -	\$ -	\$ -	\$ 49.5	\$ -	\$ -	\$ -
*New MFP12 Line			\$ 1,017.7	\$ 1,323.1	\$ 1,017.7	\$ 984.6	\$ 1,338.6	\$ 68.2	\$ 1,406.8

# SATCOM Funding & Oversight Issues

- Requests no funding for the COMSATCOM Integration Program Element, created in the FY19 defense appropriations bill, for FY20 and over the FYDP (**\$0.0M**)
- Funding for the Air Force's protected communications efforts includes:
- Rapid prototyping of PTS space, ground and gateway segments,
- Evolved Strategic SATCOM space segment - rapid prototyping for XDR-process payloads
- PTES prototype to enable anti-jam communications capability via PTW over WGS for all tactical users
- FAB-T RDT&E is up 146.2%, driven by investment in the Force Element Terminal to provide secure, protected and survivable communications through airborne based terminals (**\$197.4M**)
- Funding for the Navy Multi-band Terminal (NMT) Program (**\$34.3M**) has been realigned to a non-MFP12 PE starting in FY20, causing a sharp decrease in funding for the Navy Satellite Communications (SPACE) RDT&E program (**\$15.9M**)

# Missile Warning Funding & Oversight Issues

(+37.1%)

AGENCY	ACCOUNT TITLE	LINE ITEM	PBR 2019	FYDP 2020 (From FY19 PBR)	2019 NDAA	2019 APPR	PBR 2020 Base	PBR 2020 OCO	PBR 2020 Total
AIR FORCE	PROCUREMENT	SBIR High (Space)	\$ 138.4	\$ 269.0	\$ 138.4	\$ 108.4	\$ 234.0	\$ -	\$ 234.0
AIR FORCE	PROCUREMENT	NUDET Detection System	\$ 7.7	\$ 6.5	\$ 7.7	\$ 7.7	\$ 7.4	\$ -	\$ 7.4
AIR FORCE	RDT&E	Evolved SBIRS	\$ 643.1	\$ 936.5	\$ 743.1	\$ -			
AIR FORCE	RDT&E	Next-Generation OPIR	\$ -		\$ -	\$ 643.1	\$ 1,395.3	\$ -	\$ 1,395.3
AIR FORCE	RDT&E	Nudet Detection System (Space)	\$ 19.8	\$ 17.0	\$ 19.8	\$ 19.8	\$ 49.3	\$ -	\$ 49.3
AIR FORCE	RDT&E	Space Based Infrared System (SBIRS) High EMD	\$ 60.6	\$ 0.0	\$ 60.6	\$ 60.6	\$ 0.0	\$ -	\$ 0.0
ARMY	RDT&E	Joint Tactical Ground System	\$ 7.4	\$ 9.3	\$ 7.4	\$ 7.4	\$ 10.3	\$ -	\$ 10.3
MDA	RDT&E	Ballistic Missile Defense System Space Programs	\$ 16.5	\$ 19.6	\$ 94.5	\$ 94.5	\$ 27.6	\$ -	\$ 27.6
MDA	RDT&E	Space Tracking & Surveillance System	\$ 37.0	\$ 37.1	\$ 37.0	\$ 37.0	\$ 35.8	\$ -	\$ 35.8
AIR FORCE	RDT&E	Ballistic Missile Defense Radars*	\$ -	\$ -	\$ -	\$ -	\$ 15.9	\$ -	\$ 15.9
*New MFP12 Line			\$ 930.4	\$ 1,294.9	\$ 1,108.4	\$ 978.4	\$ 1,775.5	\$ -	\$ 1,775.5

- Includes funding for the Air Force's next-generation missile warning system - Next Generation Overhead Persistent Infrared (Next-Gen OPIR) (**\$1395.3M**); funding for the new line was transferred from the Evolved SBIRS, which is zeroed out in FY20; effort includes funding for:
  - Next-Gen OPIR Ground also known as Future Operationally Resilient Ground Evolution (FORGE) at \$264.8M
  - New Air Force RDT&E funding line for Ballistic Missile Defense Radars requested at **\$15.9M**; funds modernization efforts for the COBRA DANE radar located in Alaska supporting missile defense and space situational awareness missions
  - **NOTE:** Request highlights specifics of the Space Sensor Layer (SSL) program as a collaborative effort between the Missile Defense Agency (MDA), Defense Advanced Research Projects Agency (DARPA), Space Development Agency (SDA) and the USAF to develop the capability to detect and track evolving threats

# C2 Funding & Oversight Issues (+23.3%)

AGENCY	ACCOUNT TITLE	LINE ITEM	PBR 2019	FYDP 2020 (From FY19 PBR)	2019 NDAA	2019 APPR	PBR 2020 Base	PBR 2020 OCO	PBR 2020 Total
AIR FORCE	O&M	Space Control Systems	\$ 443.0	\$ 443.0	\$ 443.0	\$ 443.0	\$ 468.0	\$ 40.0	\$ 508.0
AIR FORCE	PROCUREMENT	AF Satellite Comm System	\$ 35.4	\$ 56.3	\$ 35.4	\$ 35.4	\$ 56.3	\$ -	\$ 56.3
AIR FORCE	PROCUREMENT	Spaceborne Equip (Comsec)	\$ 31.9	\$ 34.1	\$ 31.9	\$ 28.5	\$ 32.0	\$ -	\$ 32.0
AIR FORCE	PROCUREMENT	Space Mods	\$ 148.1	\$ 108.0	\$ 148.1	\$ 148.1	\$ 106.3	\$ -	\$ 106.3
AIR FORCE	RDT&E	JSPOC Mission System	\$ 72.3	\$ 102.8	\$ 62.3	\$ 72.3	\$ 72.8	\$ -	\$ 72.8
AIR FORCE	RDT&E	NCCMC - TW/AA System	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
AIR FORCE	RDT&E	Satellite Control Network (SPACE)	\$ 17.8	\$ 15.9	\$ 17.8	\$ 27.8	\$ 61.9	\$ -	\$ 61.9
AIR FORCE	RDT&E	Space and Missile Test and Evaluation Center	\$ 59.9	\$ 34.3	\$ 59.9	\$ 79.9	\$ 4.6	\$ -	\$ 4.6
AIR FORCE	RDT&E	Enterprise Ground Services*	\$ -	\$ -	\$ -	\$ -	\$ 138.9	\$ -	\$ 138.9
AIR FORCE	RDT&E	Global Sensor Integrated on Network (GSIN)*	\$ 3.4	\$ 3.6	\$ 3.6	\$ 3.6	\$ 3.6	\$ -	\$ 3.6
*New MFP12 Line			\$ 811.8	\$ 798.0	\$ 802.0	\$ 838.6	\$ 944.4	\$ 40.0	\$ 984.4

- Establishes a new program, Enterprise Ground Services (EGS) (**\$138.9M**)
- Requests **\$61.9M** for the Satellite Control Network (Space) program; **+\$44.1M** increase over FY19 levels to provide defensive cyber solutions for the space enterprise
- Funding for national security space C2 investments is up **21%** from FY19 PBR

# S&T Funding & Oversight Issues (+115.3%)

AGENCY	ACCOUNT TITLE	LINE ITEM	PBR 2019	FYDP 2020 (From FY19 PBR)	2019 NDAA	2019 APPR	PBR 2020 Base	PBR 2020 OCO	PBR 2020 Total
AIR FORCE	RDT&E	Space Technology	\$ 117.6	\$ 135.8	\$ 117.6	\$ 126.6	\$ 124.7	\$ -	\$ 124.7
AIR FORCE	RDT&E	Space Innovation, Integration and Rapid Technology Development	\$ 21.1	\$ 24.2	\$ 21.1	\$ 21.1	\$ 43.3	\$ -	\$ 43.3
AIR FORCE	RDT&E	Space Test Program (STP)	\$ 25.6	\$ 26.1	\$ 25.6	\$ 25.6	\$ 26.1	\$ -	\$ 26.1
AIR FORCE	RDT&E	Space Rapid Capability Office	\$ 378.4	\$ 42.7	\$ 371.1	\$ 286.1	\$ 33.7	\$ 17.9	\$ 51.6
SDA	RDT&E	Space Science and Technology Research and Development*	\$ -	\$ -	\$ -	\$ -	\$ 20.0	\$ -	\$ 20.0
SDA	RDT&E	Space Technology Development and Prototyping*	\$ -	\$ -	\$ -	\$ -	\$ 85.0	\$ -	\$ 85.0
AIR FORCE	RDT&E	Space Systems Prototype Transitions (SSPT)*	\$ -	\$ -	\$ -	\$ -	\$ 142.0	\$ -	\$ 142.0
*New MFP12 Line			\$ 542.8	\$ 228.9	\$ 535.4	\$ 459.4	\$ 474.8	\$ 17.9	\$ 492.7

- Creates a new, dedicated program element, Space Systems Prototype Transitions to identify and address space technology and capability gaps; program continues activities previously funded in the Space Control, Space RCO, and EELV programs (**\$142.0M**)
- Substantial funding decrease for the Space Rapid Capabilities Office (SpRCO, formerly ORS) attributed to completion of the Space-based Solar Power effort with FY19 funding (**\$51.6M**)
- Continues to support the EO/IR Weather Systems (EWS) capability addressing weather gaps 1 and 2
- Cancels ORS-8 due to extension of DMSP end-of-life
- Funds Space Related Tactical Communications and Cyber Enhancements for Special Operations Forces with OCO

# SSA Funding & Oversight Issues (+56.0%)

AGENCY	ACCOUNT TITLE	LINE ITEM	PBR 2019	FYDP 2020 (From FY19 PBR)	2019 NDAA	2019 APPR	PBR 2020 Base	PBR 2020 OCO	PBR 2020 Total
AIR FORCE	PROCUREMENT	Space Fence	\$ 51.4	\$ 55.8	\$ 51.4	\$ 46.4	\$ 71.8	\$ -	\$ 71.8
AIR FORCE	RDT&E	Space Situation Awareness Operations (BA-5)	\$ 46.7	\$ 161.8	\$ 46.7	\$ 46.7	\$ 76.8	\$ -	\$ 76.8
AIR FORCE	RDT&E	Space Situation Awareness Operations (BA-7)	\$ 19.6	\$ 20.3	\$ 19.6	\$ 19.6	\$ 17.8	\$ -	\$ 17.8
AIR FORCE	RDT&E	Space Situation Awareness Systems (BA-4)	\$ 39.3	\$ 29.8	\$ 29.3	\$ 34.3	\$ 29.8	\$ -	\$ 29.8
AIR FORCE	RDT&E	Space Situation Awareness Systems (BA-5)	\$ 134.5	\$ 122.7	\$ 134.5	\$ 134.5	\$ 412.9	\$ -	\$ 412.9
AIR FORCE	RDT&E	Space Fence	\$ 20.2	\$ -	\$ 20.2	\$ 20.2	\$ -	\$ -	\$ -
			\$ 311.7	\$ 390.4	\$ 301.7	\$ 301.7	\$ 609.1	\$ -	\$ 609.1

- Requests additional +\$278.4M for Space-Based Space Surveillance (SBSS) within Space Situational Awareness Systems (BA-5) (**\$412.9M**)
- Space Fence procurement funding receives additional +\$20.4M in funding (**\$71.8M**)

# Space Control Funding & Oversight Issues (-46.5%)

AGENCY	ACCOUNT TITLE	LINE ITEM	PBR 2019	FYDP 2020 (From FY19 PBR)	2019 NDAA	2019 APPR	PBR 2020 Base	PBR 2020 OCO	PBR 2020 Total
AIR FORCE	PROCUREMENT	Counterspace Systems	\$ 1.1	\$ -	\$ 1.1	\$ 1.1	\$ -	\$ -	\$ -
AIR FORCE	RDT&E	Counterspace Systems	\$ 20.7	\$ 29.0	\$ 20.7	\$ 20.7	\$ 29.0	\$ -	\$ 29.0
AIR FORCE	RDT&E	Space Superiority Intelligence	\$ 16.3	\$ 16.5	\$ 16.3	\$ 16.3	\$ 14.4	\$ -	\$ 14.4
AIR FORCE	RDT&E	Space Control Technology	\$ 92.1	\$ 82.3	\$ 92.1	\$ 92.1	\$ 64.2	\$ -	\$ 64.2
AIR FORCE	RDT&E	AF TENCAP	\$ 32.0	\$ 21.4	\$ 32.0	\$ 32.0	\$ -	\$ -	\$ -
AIR FORCE	RDT&E	National Space Defense Center	\$ 42.2	\$ 2.7	\$ 42.2	\$ 55.3	\$ 2.7	\$ -	\$ 2.7
ARMY	RDT&E	Tractor Bears	\$ 23.2	\$ 54.6	\$ 23.2	\$ 23.2	\$ -	\$ -	\$ -
			\$ 227.6	\$ 206.4	\$ 227.6	\$ 240.7	\$ 110.3	\$ -	\$ 110.3

- Funding for National Security Space, Space Control investments is down ~50% from FY2019 PBR levels
- Reduction in funding due to the transition of the AF TENCAP program from the National Security Space, MFP-12 designation, to the General Purpose Forces MFP-02 designation
- Requests \$64.2M for Space Control Technology program; -\$27.9M from FY2019 PBR levels
- Decreased due to transfer of Experimentation Platforms to dedicated program, Space Systems Prototype Transitions

# Weather Funding & Oversight Issues (+49.6%)

AGENCY	ACCOUNT TITLE	LINE ITEM	PBR 2019	FYDP 2020 (From FY19 PBR)	2019 NDAA	2019 APPR	PBR 2020 Base	PBR 2020 OCO	PBR 2020 Total
AIR FORCE	RDT&E	EO/IR Weather Systems	\$ 7.9	\$ 101.2	\$ 7.9	\$ 7.9	\$ 101.2	\$ -	\$ 101.2
AIR FORCE	RDT&E	Weather System Follow-on (BA-4)	\$ 138.1	\$ 122.9	\$ 144.1	\$ 138.1	\$ 225.7	\$ -	\$ 225.7
AIR FORCE	RDT&E	Weather System Follow-on (BA-5)*	\$ -	\$ -	\$ -	\$ -	\$ 2.2	\$ -	\$ 2.2
*New MFP12 Line			\$ 146.0	\$ 224.1	\$ 152.0	\$ 146.0	\$ 329.1	\$ -	\$ 329.1

- Accelerates funding for pre-acquisition activities for the EO/IR Weather System to meet capability gaps 1 (cloud characterization) & 2 (theater weather imagery) (**\$101.2M**)
- Funding for Weather System Follow-On (BA-4) is up +63.5% over projected levels (**\$225.7M**)



# Management Funding & Oversight Issues (+7.9%)

AGENCY	ACCOUNT TITLE	LINE ITEM	PBR 2019	FYDP 2020 (From FY19 PBR)	2019 NDAA	2019 APPR	PBR 2020 Base	PBR 2020 OCO	PBR 2020 Total
AIR FORCE	PROCUREMENT	INTEG BROADCAST SERV	\$ 16.4	\$ 16.4	\$ 16.4	\$ 16.7	\$ -	\$ -	\$ -
AIR FORCE	PROCUREMENT	General Information Tech - Space	\$ 3.4	\$ 2.4	\$ 3.4	\$ 3.5	\$ 3.2	\$ -	\$ 3.2
AIR FORCE	PROCUREMENT	Spares and Repair Parts	\$ 21.8	\$ 16.8	\$ 21.8	\$ 7.3	\$ 7.3	\$ -	\$ 7.3
AIR FORCE	RDT&E	Space and Missile Center (SMC) Civilian Workforce	\$ 169.9	\$ 169.9	\$ 169.9	\$ 171.7	\$ 167.8	\$ -	\$ 167.8
AIR FORCE	RDT&E	Space Security and Defense Program	\$ 45.5	\$ 45.5	\$ 45.5	\$ 46.5	\$ 56.4	\$ -	\$ 56.4
AIR FORCE	RDT&E	Service Support to STRATCOM - Space Activities	\$ 14.2	\$ 14.2	\$ 14.2	\$ 15.0	\$ 1.0	\$ -	\$ 1.0
AIR FORCE	RDT&E	Integrated Broadcast Service (IBS)	\$ 8.6	\$ 8.6	\$ 8.6	\$ 8.7	\$ -	\$ -	\$ -
AIR FORCE	RDT&E	Shared Early Warning (SEW)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
AIR FORCE	RDT&E	Space & Missile Systems Center - MHA	\$ 10.5	\$ 10.5	\$ 10.5	\$ 9.8	\$ 10.2	\$ -	\$ 10.2
AIR FORCE	RDT&E	Space Test & Training Range Development	\$ 23.3	\$ 23.3	\$ 23.3	\$ 19.9	\$ 19.9	\$ -	\$ 19.9
ARMY	RDT&E	Army Space Systems Integration	\$ 38.3	\$ 38.3	\$ 38.3	\$ 22.3	\$ 105.0	\$ -	\$ 105.0
NAVY	RDT&E	SEW Surveillance/Reconnaissance Support	\$ 8.7	\$ 8.7	\$ 8.7	\$ 8.4	\$ -	\$ -	\$ -
AIR FORCE	RDT&E	Service Support to SPACECOM Activities*	\$ -	\$ -	\$ -	\$ -	\$ 11.9	\$ -	\$ 11.9
*New MFP12 Line			\$ 360.6	\$ 354.6	\$ 360.6	\$ 329.8	\$ 382.7	\$ -	\$ 382.7

- Army Space Systems Integration RDT&E (\$105.0M): funding increase supports classified Low Earth Orbit strategy as well as efforts to address Narrowband Consolidated SATCOM System Expert (C-SSE) enterprise level capability to monitor, detect, and assess UHF SATCOM interference