# REDAC Aircraft Safety Subcommittee

**RE&D Budget Status** 

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#### R,E&D FY 2020 Budget

#### FY 20 R,E&D Request \$120M

- House Appropriation Committee (full committee)
   R,E&D funded at \$191M
- Senate Appropriation Committee (full committee)
   R,E&D funded at \$194.2M
- Funding Bill Enacted December 20, 2020
   R,E&D funded at \$192.7M



## FAA FY 2020 Budget

Appropriation	FY-20		House		Difference		Senate		Difference		Conference	
		Request		Mark				Mark				
Operations	\$	10,340,000,000	\$	10,677,758,000	\$	337,758,000	\$	10,540,511,000	\$	200,511,000	\$	10,630,000,000
Facilities & Equipment	\$	3,295,000,000	\$	3,002,000,000	\$	(293,000,000)	\$	3,153,801,000	\$	(141,199,000)	\$	3,045,000,000
Research Engineering &												
Development	\$	120,000,000	\$	191,100,000	\$	71,100,000	\$	194,230,000	\$	74,230,000	\$	192,665,000
Grants-in-aid for Airports	\$	3,350,000,000	\$	3,850,000,000	\$	500,000,000	\$	3,800,000,000	\$	450,000,000	\$	3,750,000,000
Total	\$	17,105,000,000	\$	17,720,858,000	\$	615,858,000	\$	17,688,542,000	\$	583,542,000	\$	17,617,665,000



## FY 2020 R,E&D Enacted

		FY 20		FY 2020			
	FY 2020	House	FY 20	Senate	FY 20	2020	FY 20
	Request	Mark	Request/FY2	Mark	Request/FY20	Conference	Request/FY20
Program	(\$000)	(\$000)	0 House +/-	(\$000)	Senate +/-	Mark (\$000)	Conference +/-
Fire Research and Safety	7,562	7,562	-	7,200	(362)	7,200	(362)
Propulsion and Fuel Systems	3,708	3,708	-	2,100	(1,608)	2,100	(1,608)
Advanced Materials/Structural Safety	1,799	15,000	13,201	14,720	12,921	14,720	12,921
Aircraft Icing /Digital System Safety	7,450	9,300	1,850	9,000	1,550	9,000	1,550
Continued Airw orthiness	10,006	11,300	1,294	11,269	1,263	10,269	263
Aircraft Catastrophic Failure Prevention Research	-	1,565	1,565	1,565	1,565	1,565	1,565
Flightdeck/Maintenance/System Integration							
Human Factors	5,973	7,300	1,327	7,300	1,327	7,300	1,327
System Safety Management	4,309	5,500	1,191	5,500	1,191	4,500	191
Air Traffic Control/Technical Operations Human							
Factors	5,474	5,474	_	5,800	326	5,800	326
Aeromedical Research	9,575	9,575	-	7,919	(1,656)	7,919	(1,656)
Weather Program	6,391	6,391	_	15,476	9,085	12,911	6,520
Unmanned Aircraft Systems Research	7,546	25,000	17,454	24,035	16,489	24,035	16,489
Undistributed		4,888					
Alternative Fuels for General Aviation	-	1,900	1,900	1,900	1,900	1,900	1,900
NextGen - Wake Turbulence	3,697	3,697	_	6,000	2,303	5,000	1,303
NextGen - Air Ground Integration Human Factors	1,717	5,800	4,083	5,800	4,083	5,300	3,583
NextGen - Weather Technology in the Cockpit	1,963	1,963	-	3,644	1,681	3,144	1,181
NextGen - Information Security	2,675	2,675	_	2,675	-	2,675	-
NextGen - Flight Deck Data Exchange	1,005	1,005	-	1,005	-	1,005	-
Commercial Space	5,971	5,971	-	2,500	(3,471)	2,500	(3,471)
Environment and Energy	15,103	18,500	3,397	18,013	2,910	18,013	2,910
NextGen - Environmental Research - Aircraft							
Technologies, Fuels, and Metrics	12,500	29,600	17,100	29,174	16,674	29,174	16,674
Airliner Cabin Environment Research				1,000		1,000	
System Planning and Resource Management	2,717	2,426	(291)	7,135	4,418	12,135	9,418
William J. Hughes Technical Center Laboratory			, ,				
Facility	2,859	5,000	2,141	3,500	641	3,500	641
TOTAL	120,000	191,100	66,212	194,230	73,230	192,665	71,665



### FY 2020 Conference Language

- Advanced Materials/Structural Safety This includes \$6M to advance the use
  of these new additive materials (both metallic and non-metallic based additive
  processes) into the commercial aviation industry, as well as \$4M to advance
  the use of fiber reinforced composite materials into the commercial aviation
  industry through the FAA Joint Advanced Materials and Structures Center of
  Excellence.
- <u>Continued Airworthiness</u> The agreement includes \$10,269,000 for continued airworthiness, of which \$2,000,000 is for the FAA To work with the public and private partners who provide leading-edge research, development, and testing of composite materials and structures.
- <u>Unmanned Aircraft System Research</u> This include \$12M to support the expanded role of the UAS Center of Excellence, \$2M is to expand the Center's role in transportation disaster preparedness and response, and \$10M is to support UAS research activities at the FAA Technical Center and other FAA facilities. The agreement includes direction included in the house Report 115-237 and the Senate Report 115-138 and directs the FAA to report its progress on this direction to the House and Senate Committees on Appropriations no later than 120 days after enactment of this Act.



#### FY 2020 Conference Language

- Environmental sustainability The FAA is provided a total of \$47,187,000 for research related to environmental sustainability that supports the CLEEN program, as well as the center of excellence for alternative jet fuels and environment. Within the total provided, the FAA is directed to use \$15,000,000 for the center of excellence.
- Aviation workforce development programs Of the amount provided for system planning and resource management, the agreement includes \$10,000,000 for the aviation workforce development programs for aircraft pilot workforce and for aviation maintenance workforce, as authorized by section 625 of the FAA Reauthorization ACT of 2018.
- <u>Human Intervention Motivation Study (HIMS)</u> The FAA is directed to report on its progress in implementing the direction in the Senate report on the HIMS no later than March 2, 2020.
- <u>Automation</u> The FAA should investigate ways in which training and mitigations can be developed to address the safety risk associated with pilot automation dependency.



#### FY 2021 Budget

- Budget submitted to Congress the Week of February 10
- Budget Deal will need to be agreed to
  - With out budget deal will have to go to sequester levels



#### R,E&D FY 2022 Budget

- FY 2022 target \$170M
- Deliver to OST June 2020
- FY 2022 remaining schedule
  - Submit to OMB mid September
  - Submit President's request to Congress Feb. 2021



### **Out Year Targets**

- Targets established Feb. 2020
  - FY 22 \$170M
  - FY 23 \$170M
  - FY 24 \$170M
  - FY 25 \$170M
  - FY 26 \$170M
- Expect targets to change

#### **FAA** Reauthorization

 Current Authorization signed by President Oct 5, 2018 which extends authorization thru 2023

# **Budget Future - TBD**

