



AVIATION FACILITIES

Aviation Facilities

Planned CIP

Planned appropriations for the five year FY2016 – 2020 Adopted Capital Improvement Plan are projected to reach \$2.25 billion. The George Bush Intercontinental Airport (IAH) Terminal redevelopment of the Mickey Leland International Terminal (MLIT) dominates the five-year CIP representing 54%; airfield projects represent 11%; garage projects represent 6%; while infrastructure projects represent 7% of the five-year CIP planned appropriations.

The George Bush Intercontinental Airport Master Plan will be completed in FY2016. Projects stemming from this Master Plan include: the reconstruction and widening of Taxiway NR; the lengthening of Runway 15R – 33L and its associated Taxiway WP; a new hardstand for large aircraft; the realignment of the roadway; and the overall plan for the MLIT redevelopment.

The FAA Environmental Assessment for MLIT will be completed in 2016. Planning activity levels are being monitored at IAH and William P Hobby Airport (HOU) to determine the timing and need for the projects identified in the Master Plan.

Major CIP Projects

IAH Terminal B south has been reconstructed for regional jets. IAH has completed construction of two Terminal D gates capable of handling the Airbus 380, the world's largest commercial aircraft.

Master plans for Ellington Airport (EFD) and HOU are complete. EFD has obtained the FAA's Spaceport license.

The IAH Master Plan includes: airfield reconstruction projects for larger aircraft, installation of more aircraft gates, and improved terminal facilities designed to improve the passenger experience. The major IAH terminal project scheduled in the five year CIP is MLIT which redevelops the International Terminal with more gates to handle the large wide body aircraft.

Three projects underway at HOU that will be completed October 14, 2015 include: a new concourse wing containing 5 to 10 new gates and a Federal Inspection Station, realignment of the entrance way, and a new Central Plant to provide the necessary heating and cooling of the terminal building. The new garage will be completed a few months later.

Funding for the Airport Facilities CIP

The FY2016-2020 Airport Facilities CIP is being funded from various sources including the Airports Improvement Fund (AIF, Fund #8011), Airports Renewal and Replacement Fund (R&R, Fund #8010), Grants-in-Aid from the FAA Airports Improvement Program (AIP Fund #8000), Commercial Paper / General Airport Revenue Bonds (GARB) and passenger facility charges.

The CIP is programmed to be funded by FAA grants which have not yet been approved by the appropriate federal agency.

Project Allocation	Fiscal Year Planned Appropriations					2016-2020
	2016	2017	2018	2019	2020	
Planning						
Acquisition-Land	17,225			14,000		31,225
Design	145,871	21,425	3,423	1,264	6,130	178,113
Construction	433,634	630,746	340,014	266,362	110,181	1,780,937
Equipment Acquisition						
Salary Recovery						
Other	157,403	42,250	10,500	41,000	11,750	262,903
Total Allocation	754,133	694,421	353,937	322,626	128,061	2,253,178
Source of Funds						
8011 - HAS-Airports Improvement	175,253	302,932	45,823	85,772	33,009	642,789
FAA/AIP	19,801	26,000				45,801
GRANTS	48,130					48,130
REV BONDS/CP	465,510	359,225	269,998	230,188	95,052	1,419,973
R&R	45,439	6,264	38,116	6,666		96,485
Total Funds	754,133	694,421	353,937	322,626	128,061	2,253,178

**AVIATION FACILITIES - Summary of Funds
2016-2020 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

CIP No.	Project	Fiscal Year Planned Appropriations					2016-2020
		2016	2017	2018	2019	2020	
A-000082	Land Acquisition NE Will Clayton						
	8011 - HAS-Airports Improvement	12,055					12,055
	Project Total	12,055					12,055
A-000138	Technical Engineering Services						
	8011 - HAS-Airports Improvement			2,000			2,000
	Project Total			2,000			2,000
A-000348	Miscellaneous Construction						
	8011 - HAS-Airports Improvement	725	500	500	500	500	2,725
	Project Total	725	500	500	500	500	2,725
A-000362	Consolidated Maintenance Facility - HOU						
	8011 - HAS-Airports Improvement	5,130					5,130
	REV BONDS/CP	4,626					4,626
	Project Total	9,756					9,756
A-000422	Civic Art for Aviation-HAS						
	8011 - HAS-Airports Improvement	3,403	6,484	3,593	3,329	2,083	18,892
	Project Total	3,403	6,484	3,593	3,329	2,083	18,892
A-000423	General Environmental Services - HAS						
	8011 - HAS-Airports Improvement		750			750	1,500
	R&R	5,538					5,538
	Project Total	5,538	750			750	7,038
A-000432	IAH SHORT TERM DOMESTIC WATER IMPROVM						
	8011 - HAS-Airports Improvement	300	2,700				3,000
	Project Total	300	2,700				3,000

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2016-2020 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CIP No.	Project						2016-2020
		2016	2017	2018	2019	2020	
A-000437	Ground Transportation Mgmt System-GBIAH						
	8011 - HAS-Airports Improvement	175	1,575				1,750
	Project Total	175	1,575				1,750
A-000447	VARIOUS BLDG & SUPT SYS-CENTRAL FIS-IAH						
	R&R	2,853					2,853
	Project Total	2,853					2,853
A-000448	CUP 480-VOLT DISTRIBUTION SYSTEM						
	8011 - HAS-Airports Improvement	800	7,200				8,000
	Project Total	800	7,200				8,000
A-000452	VARIOUS BLDG & SUPT SYS-TERM A-IAH						
	R&R	3,209		15,652			18,861
	Project Total	3,209		15,652			18,861
A-000456	VARIOUS BLDG & SUPT SYS-ROADWAYS-IAH						
	R&R	309			458		767
	Project Total	309			458		767
A-000458	VARIOUS BLDG & SUPT SYS-INFRASTRUCT-IAH						
	R&R			17,821			17,821
	Project Total			17,821			17,821
A-000461	VARIOUS BLDG & SUPT SYS-AIRFIELD-IAH						
	8011 - HAS-Airports Improvement				209		209
	R&R	221			6,208		6,429
	Project Total	221			6,417		6,638
A-000465	TERM A N&S 480-VOLT DISTRIBUTION SYS						
	8011 - HAS-Airports Improvement	2,000	18,000				20,000
	Project Total	2,000	18,000				20,000

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CIP No.	Project						2016-2020
		2016	2017	2018	2019	2020	
A-000474	VARIOUS BLDG & SUPT SYS-MAIN TERM-HOU						
	R&R	3,246	1,764	451			5,461
	Project Total	3,246	1,764	451			5,461
A-000477	PN 604A Inter-Terminal Train-Repairs						
	R&R			1,000			1,000
	Project Total			1,000			1,000
A-000478	VARIOUS BLDG & SUPT SYS-UTILITIES-HOU						
	R&R			2,283			2,283
	Project Total			2,283			2,283
A-000480	VARIOUS BLDG SUPT SYS - EFD						
	R&R			909			909
	Project Total			909			909
A-000484	EMERGENCY REPAIRS-COLLAPSED SLAB-GAT						
	8011 - HAS-Airports Improvement	350					350
	Project Total	350					350
A-000492	VARIOUS BLDG & SUPT SYS-APM-IAH						
	R&R		4,000				4,000
	Project Total		4,000				4,000
A-000494	APM GUIDE WAY STRUCTURAL ENHANCEMENT						
	8011 - HAS-Airports Improvement	3,050	9,600	1,350			14,000
	Project Total	3,050	9,600	1,350			14,000
A-000498	DEMOLISH UNOCCUPIED HAS OWNED BLDGS						
	8011 - HAS-Airports Improvement	1,000					1,000
	Project Total	1,000					1,000

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2016-2020 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CIP No.	Project						2016-2020
		2016	2017	2018	2019	2020	
A-000499	DISTRIBUTION CENTER FOR CONCESSIONS						
	8011 - HAS-Airports Improvement		15,000				15,000
	Project Total		15,000				15,000
A-000509	Landside Roadway Improvements - IAH						
	8011 - HAS-Airports Improvement	1,500	12,299				13,799
	Project Total	1,500	12,299				13,799
A-000510	New GT Staging Area - GBIAH						
	8011 - HAS-Airports Improvement	1,744	6,300				8,044
	Project Total	1,744	6,300				8,044
A-000513	Airport Pavement Replacement						
	8011 - HAS-Airports Improvement	1,000	3,000				4,000
	R&R	25,816					25,816
	Project Total	26,816	3,000				29,816
A-000515	Rehab Taxiway SA,SB & RA - GBIAH						
	8011 - HAS-Airports Improvement	3,277	39,489				42,766
	Project Total	3,277	39,489				42,766
A-000516	Sanitary Sewer - GBIAH						
	8011 - HAS-Airports Improvement	1,952	7,000				8,952
	Project Total	1,952	7,000				8,952
A-000519	Install Canopy at Pass Drop Off Area - H						
	8011 - HAS-Airports Improvement		800	7,200			8,000
	Project Total		800	7,200			8,000
A-000521	Taxiway H & H2 Rehab - HOU						
	8011 - HAS-Airports Improvement				1,000	9,000	10,000
	Project Total				1,000	9,000	10,000

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CIP No.	Project						2016-2020	
		2016	2017	2018	2019	2020		
A-000523	Construction of New Taxiways - EFD							
	8011 - HAS-Airports Improvement					1,200	1,200	
	Project Total					1,200	1,200	
A-000527	TAXIWAY D & E REHAB							
	8011 - HAS-Airports Improvement	2,000	18,000				20,000	
	Project Total	2,000	18,000				20,000	
A-000528	LA for HOU-FPA/PIN Point Hobby HOU							
	8011 - HAS-Airports Improvement	3,250			14,000		17,250	
	Project Total	3,250			14,000		17,250	
A-000532	Construct of Ellington Field Bypass -EFD							
	8011 - HAS-Airports Improvement					900	900	
	Project Total					900	900	
A-000535	TAXIWAY NR EXTENSION - IAH							
	8011 - HAS-Airports Improvement			2,500	22,500		25,000	
	Project Total			2,500	22,500		25,000	
A-000536	HOBBY BEAUTIFICATION							
	8011 - HAS-Airports Improvement	2,812					2,812	
	Project Total	2,812					2,812	
A-000538	TERMINAL A CONCOURSE EXPANSION							
	8011 - HAS-Airports Improvement		30,000				30,000	
	Project Total		30,000				30,000	
A-000539	LACTATION STATIONS AT GBIAH							
	8011 - HAS-Airports Improvement	53					53	
	Project Total	53					53	

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CIP No.	Project						2016-2020
		2016	2017	2018	2019	2020	
A-000543	SMGCS LGHTG & MARKINGS - FIS EXPANSION						
	8011 - HAS-Airports Improvement	120	1,080				1,200
	Project Total	120	1,080				1,200
A-000545	ENVIRONMENTAL IMPACT STUDY-HAS						
	8011 - HAS-Airports Improvement			1,000			1,000
	Project Total			1,000			1,000
A-000548	CONTAINER STORAGE FACILITY - GBIAH						
	8011 - HAS-Airports Improvement	450					450
	Project Total	450					450
A-000549	HPD/HFD Airport Radios &CityWideCov						
	8011 - HAS-Airports Improvement			2,500			2,500
	Project Total			2,500			2,500
A-000550	EAST END ENTRANCE CANOPY - HOU						
	8011 - HAS-Airports Improvement	200					200
	Project Total	200					200
A-000551	PTC/UA EMPLOYEE PARKING-IAH						
	8011 - HAS-Airports Improvement	12,316	500				12,816
	Project Total	12,316	500				12,816
A-000553	SCANNOJETS-SECURITY CHECK SYS - HAS						
	8011 - HAS-Airports Improvement	500	1,500				2,000
	Project Total	500	1,500				2,000
A-000555	REHAB SCHOLL STREET - EFD						
	8011 - HAS-Airports Improvement	2,000					2,000
	FAA/AIP	2,000					2,000
	Project Total	4,000					4,000

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CIP No.	Project						2016-2020
		2016	2017	2018	2019	2020	
A-000556	UPGRADE BHS CNTRLS & BIDS ENHANCEMENT						
	8011 - HAS-Airports Improvement	1,200	1,800				3,000
	Project Total	1,200	1,800				3,000
A-000558	COMMON USE TICKET & GATE CHECK-IN SYS						
	8011 - HAS-Airports Improvement	5,000					5,000
	Project Total	5,000					5,000
A-000559	PASSENGER QUEUE TRACKING - HAS						
	8011 - HAS-Airports Improvement	1,800	2,800	900			5,500
	Project Total	1,800	2,800	900			5,500
A-000563	SPACE LOCATOR & SIGN-TERM A/B/C/D GARA						
	8011 - HAS-Airports Improvement	5,000	10,000				15,000
	Project Total	5,000	10,000				15,000
A-000564	AIR TRAFFIC CONTROL TOWER (ATCT) EFD						
	8011 - HAS-Airports Improvement		4,605				4,605
	FAA/AIP		2,000				2,000
	Project Total		6,605				6,605
A-000567	DISTRIBUTED ANTENNA SYSTEM (DAS) - HOU						
	8011 - HAS-Airports Improvement	1,500					1,500
	Project Total	1,500					1,500
A-000570	Reconstruction of Taxiway NB - IAH						
	8011 - HAS-Airports Improvement		10,000				10,000
	FAA/AIP		24,000				24,000
	REV BONDS/CP	3,000					3,000
	Project Total	3,000	34,000				37,000

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CIP No.	Project						2016-2020	
		2016	2017	2018	2019	2020		
A-000573	Perimeter Security Intrus Detection Sys							
	8011 - HAS-Airports Improvement	350	3,350	1,800			5,500	
	Project Total	350	3,350	1,800			5,500	
A-000574	TAXIWAY M REHAB							
	8011 - HAS-Airports Improvement					1,400	1,400	
	Project Total					1,400	1,400	
A-000576	Modify N Electrical Vault and Misc. Elec							
	8011 - HAS-Airports Improvement					500	500	
	Project Total					500	500	
A-000580	Hobby Drainage & Roadway Flooding - HOU							
	8011 - HAS-Airports Improvement	350	3,150				3,500	
	Project Total	350	3,150				3,500	
A-000581	TERMINAL A MODERNIZATION							
	REV BONDS/CP			50,000			50,000	
	Project Total			50,000			50,000	
A-000583	PROVISIONING CARGO FACILITY - HOU							
	8011 - HAS-Airports Improvement		850	7,650			8,500	
	Project Total		850	7,650			8,500	
A-000584	Security System Enhancements - HAS							
	8011 - HAS-Airports Improvement	250	2,000	5,000			7,250	
	Project Total	250	2,000	5,000			7,250	
A-000585	Future Fuel Farm Expansion - GBIAH							
	8011 - HAS-Airports Improvement					2,000	2,000	
	Project Total					2,000	2,000	

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CIP No.	Project						2016-2020	
		2016	2017	2018	2019	2020		
A-000587	Noise Mitigation Program							
	8011 - HAS-Airports Improvement	1,920					1,920	
	Project Total	1,920					1,920	
A-000590	Rehabilitate and Expand ARFF Station-HAS							
	8011 - HAS-Airports Improvement	350	3,500				3,850	
	Project Total	350	3,500				3,850	
A-000591	TEMPORARY RELOCATION OF TENANTS - HOU							
	8011 - HAS-Airports Improvement					6,000	6,000	
	Project Total					6,000	6,000	
A-000596	HAS ADMIN BLDG EXPANSION - IAH							
	8011 - HAS-Airports Improvement	2,000					2,000	
	REV BONDS/CP		60,000				60,000	
	Project Total	2,000	60,000				62,000	
A-000599	INTERNAL SIGNAGE AT IAH & HOU							
	8011 - HAS-Airports Improvement		500	4,500			5,000	
	Project Total		500	4,500			5,000	
A-000601	PN720 HOU InternIFacility-LeaseAgrmnt.01							
	REV BONDS/CP	146,000					146,000	
	Project Total	146,000					146,000	
A-000602	ON CALL PLANNING SERVICES							
	8011 - HAS-Airports Improvement		1,500	3,000	3,000	3,000	10,500	
	Project Total		1,500	3,000	3,000	3,000	10,500	
A-000603	EDS Machine Upgrades for IAH(TSA funded)							
	GRANTS	48,130					48,130	
	Project Total	48,130					48,130	

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CIP No.	Project						2016-2020
		2016	2017	2018	2019	2020	
A-000605	Parking Garage Term C D & E						
	8011 - HAS-Airports Improvement	150	1,350				1,500
	Project Total	150	1,350				1,500
A-000607	Term A/B Garage-PublicParking Imprvment						
	8011 - HAS-Airports Improvement	550	4,950				5,500
	Project Total	550	4,950				5,500
A-000610	Cell Phone Lots on JFK & Will Clayton						
	8011 - HAS-Airports Improvement	3,500	3,500				7,000
	Project Total	3,500	3,500				7,000
A-000613	SecurityEnhancemntsAOAperimeterFenceLine						
	8011 - HAS-Airports Improvement	1,000					1,000
	Project Total	1,000					1,000
A-000614	SatelliteCntrlUtilities-CUP Facility-HOU						
	REV BONDS/CP				7,500		7,500
	Project Total				7,500		7,500
A-000619	Rehabilitation of Airfield Svc. Rd - EFD						
	R&R	2,547					2,547
	Project Total	2,547					2,547
A-000620	T-Hanger Ramp & Taxiway D Pavement						
	R&R	1,300					1,300
	Project Total	1,300					1,300
A-000621	Public Addressing (PA) System						
	8011 - HAS-Airports Improvement	5,000	3,000				8,000
	Project Total	5,000	3,000				8,000

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CIP No.	Project						2016-2020
		2016	2017	2018	2019	2020	
A-000622	Reworking Constr Taxiway WA/WB						
	8011 - HAS-Airports Improvement	66,000					66,000
	Project Total	66,000					66,000
A-000623	DEMOLITION OF TOWER @ IAH (REIMB by FAA)						
	FAA/AIP	3,063					3,063
	Project Total	3,063					3,063
A-000624	TERM B CORE & NO 480-VOLT DISTRIB SYS						
	8011 - HAS-Airports Improvement	2,000	18,000				20,000
	Project Total	2,000	18,000				20,000
A-000625	IAH FLEET MAINTENANCE BUILDING						
	8011 - HAS-Airports Improvement	4,371					4,371
	Project Total	4,371					4,371
A-000626	TERM-A NO & SO RESTROOM REMODEL						
	8011 - HAS-Airports Improvement	5,000					5,000
	Project Total	5,000					5,000
A-000627	AIRPORT BLVD & ECOPARK ACCESS RD-HOU						
	8011 - HAS-Airports Improvement	700	1,800				2,500
	Project Total	700	1,800				2,500
A-000628	SECURITY LANE BACKFLOW PREVENTION						
	8011 - HAS-Airports Improvement	1,500	4,500				6,000
	Project Total	1,500	4,500				6,000
A-000629	AEROSPACE DESIGN & SOLUTION LAB - EFD						
	REV BONDS/CP		2,500	22,500			25,000
	Project Total		2,500	22,500			25,000

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CIP No.	Project						2016-2020	
		2016	2017	2018	2019	2020		
A-000630	HOBBY PARKING OFFICE							
	8011 - HAS-Airports Improvement	750					750	
	Project Total	750					750	
A-000633	PN 780 PUBLIC WI-FI & BLE BEACON UPGRADE							
	8011 - HAS-Airports Improvement				6,000		6,000	
	Project Total				6,000		6,000	
A-000634	ON CALL TECHNOLOGY CONTRACT							
	8011 - HAS-Airports Improvement			2,000	2,000	2,000	6,000	
	Project Total			2,000	2,000	2,000	6,000	
A-000635	COMMUNICATION CABLING INFRASTRUCTURE							
	8011 - HAS-Airports Improvement	2,850					2,850	
	Project Total	2,850					2,850	
A-000636	PARKING REVENUE CONTROL SYSTEM - HAS							
	8011 - HAS-Airports Improvement		10,000				10,000	
	Project Total		10,000				10,000	
A-000638	WEST TERMINAL ROAD AREA ROADWAYS - HO							
	8011 - HAS-Airports Improvement			330	2,970		3,300	
	Project Total			330	2,970		3,300	
A-000639	RELOCATION OF TAXI STAGING AREA - HOU							
	8011 - HAS-Airports Improvement				264	2,376	2,640	
	Project Total				264	2,376	2,640	
A-000640	HAS ADMIN CAMPUS SIGNAGE - HAS							
	R&R	400					400	
	Project Total	400					400	

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CIP No.	Project						2016-2020	
		2016	2017	2018	2019	2020		
A-000641	PERIMETER ROAD & FENCE REALIGNMENT-EF							
	8011 - HAS-Airports Improvement					1,300	1,300	
	Project Total					1,300	1,300	
A-000642	NON TERMINAL FACILITY SYS REHAB - HAS							
	R&R		500				500	
	Project Total		500				500	
A-000800	Executive Program Manager Services-ITRP							
	8011 - HAS-Airports Improvement		30,000		30,000		60,000	
	FAA/AIP	14,738					14,738	
	REV BONDS/CP	311,884	296,725	197,498	222,688	95,052	1,123,847	
	Project Total	326,622	326,725	197,498	252,688	95,052	1,198,585	
	Total Appropriations:	754,133	694,421	353,937	322,626	128,061	2,253,178	