



# **AVIATION FACILITIES**

# Aviation Facilities

## **PLANNED CIP**

Appropriations for the five year CIP FY2015 to FY2019 are projected to reach \$1.2 billion. Terminal renovations/expansions, dominate the five-year CIP representing over 60%, airfield projects are 20%, infrastructure represents 10%, and other facilities represent 6% of the five-year CIP appropriations.

Master plans for all three airports are underway. Implementation of projects stemming from these Master Plans will be added to next year's five- year CIP. The FAA Environmental Assessment approval which is required prior to the design and construction of any new terminal projects has been completed for HOU. The FAA Environmental Assessment approval for the new Mickey Leland International Terminal will be started in 2015.

Planning Activity Levels are being monitored at IAH and HOU to determine the timing and need for the projects identified in the Master Plans.

## **MAJOR CIP PROJECTS**

- Master plan projects for IAH include projects that improve the airfield to handle larger aircraft, provide more gates for United Airlines regional jets, provide a better terminal experience for passengers, and improve the facilities within the airport area. The two major IAH terminal projects scheduled in the 5-year CIP are IAH Terminal B south being reconstructed for regional jets, IAH Terminal development and renovation to handle large wide body aircraft.

# Aviation Facilities

## MAJOR CIP PROJECTS – continue

- Three projects underway at HOU include a new concourse wing containing 5 to 10 new gates and a Federal Inspection Station, a new garage and realignment of the entrance way, and a new Central Plant to provide the necessary heating and cooling of the terminal building and its concourses.
- The IAH master plan will study the need for a new cross field taxiway at IAH, terminal improvements and landside improvements to ease congestion. The HOU master plan will study improvements needed for the development of the HOU airport future. The EFD master plan will study and determine what steps are needed to make EFD a space port.

## Funding for the Airport Facilities CIP

- The FY 2015-2019 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) and Commercial Paper / General Airport Revenue Bonds (GARB). 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					2015-2019
	2015	2016	2017	2018	2019	
Planning						
Acquisition-Land				5,000		5,000
Design	126,960	16,440	7,000	46,350	11,290	208,040
Construction	132,666	199,041	294,260	75,550	264,050	965,567
Equipment Acquisition						
Salary Recovery						
Other	11,245	5,000	5,076	4,500	6,288	32,109
<b>Total Allocation</b>	<b>270,871</b>	<b>220,481</b>	<b>306,336</b>	<b>131,400</b>	<b>281,628</b>	<b>1,210,716</b>
<b>Source of Funds</b>						
AIF	165,921	190,081	100,161	41,150	43,190	540,503
Airport Renl & Repl	900		1,200	7,250	2,000	11,350
FAA/AIP	300	1,400	2,000			3,700
Rev Bonds/Com Paper	103,750	29,000	202,975	83,000	236,438	655,163
<b>Total Funds</b>	<b>270,871</b>	<b>220,481</b>	<b>306,336</b>	<b>131,400</b>	<b>281,628</b>	<b>1,210,716</b>

**AVIATION FACILITIES - Summary of Funds**  
**2015-2019 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

CIP No.	Project	Fiscal Year Planned Appropriations					2015-2019
		2015	2016	2017	2018	2019	
<b>A-000138</b>	<b>Technical Engineering Services</b>						
	AIF	2,500	150	150	150	150	3,100
	<b>Project Total</b>	2,500	150	150	150	150	3,100
<b>A-000204</b>	<b>MID-FIELD TAXIWAY - T/W NP ALLIGNMENT</b>						
	Rev Bonds/Com Paper				32,000		32,000
	<b>Project Total</b>				32,000		32,000
<b>A-000221</b>	<b>Expand Airport Services Complex - IAH</b>						
	AIF					800	800
	<b>Project Total</b>					800	800
<b>A-000348</b>	<b>Miscellaneous Construction</b>						
	AIF	3,000	3,000	3,000	3,000	3,000	15,000
	<b>Project Total</b>	3,000	3,000	3,000	3,000	3,000	15,000
<b>A-000354</b>	<b>People Mover Extension</b>						
	AIF	500	2,000				2,500
	<b>Project Total</b>	500	2,000				2,500
<b>A-000422</b>	<b>Civic Art for Aviation-HAS</b>						
	AIF			101		350	451
	Rev Bonds/Com Paper	1,750		2,975		3,938	8,663
	<b>Project Total</b>	1,750		3,076		4,288	9,114
<b>A-000423</b>	<b>General Environmental Services - Has</b>						
	AIF	1,000	15,000				16,000
	<b>Project Total</b>	1,000	15,000				16,000
<b>A-000432</b>	<b>IAH SHORT TERM DOMESTIC WATER IMPROV</b>						
	AIF	300	2,700				3,000
	<b>Project Total</b>	300	2,700				3,000

**AVIATION FACILITIES - Summary of Funds**  
**2015-2019 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

CIP No.	Project						2015-2019	
		2015	2016	2017	2018	2019		
<b>A-000437</b>	<b>Ground Transportation Mgmt System-GBIAH</b>							
	AIF	200	1,000				1,200	
	<b>Project Total</b>	200	1,000				1,200	
<b>A-000446</b>	<b>On Call Design &amp; Eng Prof Svs-HAS</b>							
	AIF	6,600	6,600	6,600	6,600	6,000	32,400	
	<b>Project Total</b>	6,600	6,600	6,600	6,600	6,000	32,400	
<b>A-000447</b>	<b>TERM D 480-VOLT DISTRIBUTION SYSTEM</b>							
	AIF	1,000	12,500				13,500	
	<b>Project Total</b>	1,000	12,500				13,500	
<b>A-000448</b>	<b>CUP 480-VOLT DISTRIBUTION SYSTEM</b>							
	AIF	800	5,200				6,000	
	<b>Project Total</b>	800	5,200				6,000	
<b>A-000452</b>	<b>TERM A BUILDING MGMT SYS MODERNIZATIO</b>							
	AIF	200	1,800				2,000	
	<b>Project Total</b>	200	1,800				2,000	
<b>A-000464</b>	<b>IAH MID-TO LONG TERM DOMESTIC WATER IM</b>							
	AIF		2,000	18,000			20,000	
	<b>Project Total</b>		2,000	18,000			20,000	
<b>A-000465</b>	<b>TERM A NO &amp; SO 480-VOLT DISTRIBUTION SYS</b>							
	AIF		2,000	18,000			20,000	
	<b>Project Total</b>		2,000	18,000			20,000	
<b>A-000472</b>	<b>TERM C BLDG MGMT SYS MODERNIZATION</b>							
	AIF		300	2,700			3,000	
	<b>Project Total</b>		300	2,700			3,000	

**AVIATION FACILITIES - Summary of Funds**  
**2015-2019 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

CIP No.	Project						2015-2019	
		2015	2016	2017	2018	2019		
<b>A-000474</b>	<b>FIS ELECTRICAL REHAB</b>							
	AIF					500		500
	<b>Project Total</b>					500		500
<b>A-000477</b>	<b>PN 604A Inter-Terminal Train (ITT)</b>							
	AIF			1,000			20,000	21,000
	<b>Project Total</b>			1,000			20,000	21,000
<b>A-000483</b>	<b>Terminal D Remodeling</b>							
	AIF							
	Airport Renl & Repl							1,200
	<b>Project Total</b>					1,200		1,200
<b>A-000484</b>	<b>EMERGENCY REPAIRS-COLLAPSED SLAB-GAT</b>							
	AIF			350				350
	<b>Project Total</b>			350				350
<b>A-000494</b>	<b>APM GUIDE WAY STRUCTURAL ENHANCEMEN</b>							
	AIF				50	450		500
	<b>Project Total</b>				50	450		500
<b>A-000501</b>	<b>ADM BLDG MOTOR POOL PARKING LOT</b>							
	AIF			25	225			250
	<b>Project Total</b>			25	225			250
<b>A-000505</b>	<b>NEW CELL PHONE LOT AT HOBBY</b>							
	AIF				125	1,125		1,250
	<b>Project Total</b>				125	1,125		1,250
<b>A-000506</b>	<b>STERILE AREA CHECKPOINT EXIT LANE</b>							
	AIF			40	360			400
	<b>Project Total</b>			40	360			400

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**2015-2019 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

CIP No.	Project						2015-2019
		2015	2016	2017	2018	2019	
<b>A-000507</b>	<b>REPLACE HOBBY DOMESTIC/FIRE TANK</b>						
	AIF	100	900				1,000
	<b>Project Total</b>	100	900				1,000
<b>A-000509</b>	<b>Landside Roadway Improvements - IAH</b>						
	AIF	13,799					13,799
	<b>Project Total</b>	13,799					13,799
<b>A-000510</b>	<b>New GT Staging Area - GBIAH</b>						
	AIF	544				200	744
	<b>Project Total</b>	544				200	744
<b>A-000513</b>	<b>Airport Pavement Replacement</b>						
	AIF	7,000					7,000
	Airport Renl & Repl	900			2,250	2,000	5,150
	<b>Project Total</b>	7,900			2,250	2,000	12,150
<b>A-000515</b>	<b>Reconstruct Taxiway SA AND SB - GBIAH</b>						
	Rev Bonds/Com Paper		4,000		36,000		40,000
	<b>Project Total</b>		4,000		36,000		40,000
<b>A-000516</b>	<b>Sanitary Sewer - GBIAH</b>						
	AIF	8,952					8,952
	<b>Project Total</b>	8,952					8,952
<b>A-000517</b>	<b>Install Lighted Crosswalk on Termi-GBIAH</b>						
	AIF				900		900
	<b>Project Total</b>				900		900
<b>A-000518</b>	<b>TERMINAL A SOUTH CONCOURSE ROOF-PN75</b>						
	Airport Renl & Repl				5,000		5,000
	<b>Project Total</b>				5,000		5,000



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**2015-2019 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

CIP No.	Project						2015-2019	
		2015	2016	2017	2018	2019		
<b>A-000519</b>	<b>Install Canopy at Pass Drop Off Area - H</b>							
	AIF		7,500					7,500
	<b>Project Total</b>		7,500					7,500
<b>A-000520</b>	<b>Backup Generators - HOU</b>							
	AIF					7,500		7,500
	<b>Project Total</b>					7,500		7,500
<b>A-000530</b>	<b>FIS &amp; GENERAL AVIATION CENTER</b>							
	AIF		900					900
	<b>Project Total</b>		900					900
<b>A-000532</b>	<b>Construct of Ellington Field Bypass -EFD</b>							
	AIF					900		900
	<b>Project Total</b>					900		900
<b>A-000533</b>	<b>Ramp Pavement Reconstruction - EFD</b>							
	AIF				200			200
	<b>Project Total</b>				200			200
<b>A-000541</b>	<b>VISUAL DOCKING GUIDANCE SYS - AIRCRAFT</b>							
	AIF		300	2,700				3,000
	<b>Project Total</b>		300	2,700				3,000
<b>A-000543</b>	<b>SMGCS LGHTG &amp; MARKINGS - FIS EXPANSION</b>							
	AIF		120	1,080				1,200
	<b>Project Total</b>		120	1,080				1,200
<b>A-000549</b>	<b>PN696 HPD/HFD AirpRadios &amp;CityWideCov</b>							
	AIF				2,500			2,500
	<b>Project Total</b>				2,500			2,500

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CIP No.	Project						2015-2019
		2015	2016	2017	2018	2019	
<b>A-000551</b>	<b>EAST END ENTRANCE CANOPY</b>						
	AIF		150				150
	<b>Project Total</b>		150				150
<b>A-000553</b>	<b>PN759 T/D Upgrade-E.BaggageMake-UpMatrix</b>						
	AIF	500	4,500				5,000
	<b>Project Total</b>	500	4,500				5,000
<b>A-000555</b>	<b>Rehab Scholl St</b>						
	AIF		2,700				2,700
	<b>Project Total</b>		2,700				2,700
<b>A-000562</b>	<b>D-9 LOADING BRIDGE AT IAH</b>						
	AIF	5,000					5,000
	<b>Project Total</b>	5,000					5,000
<b>A-000563</b>	<b>SPACE LOCATOR &amp; SIGNAGE - TERM C/D GAR</b>						
	AIF	1,000	14,000				15,000
	<b>Project Total</b>	1,000	14,000				15,000
<b>A-000564</b>	<b>AIR TRAFFIC CONTROL TOWER (ATCT) EFD</b>						
	AIF	105		4,400			4,505
	FAA/AIP			2,000			2,000
	<b>Project Total</b>	105		6,400			6,505
<b>A-000565</b>	<b>TERM B EXPANSION</b>						
	AIF			34,000			34,000
	<b>Project Total</b>			34,000			34,000
<b>A-000569</b>	<b>Upgrade Airfields to Standards - IAH</b>						
	Rev Bonds/Com Paper				15,000		15,000
	<b>Project Total</b>				15,000		15,000

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CIP No.	Project						2015-2019	
		2015	2016	2017	2018	2019		
<b>A-000570</b>	<b>Reconstruction of Taxiway NB - IAH</b>							
	Rev Bonds/Com Paper	2,000	25,000				27,000	
	<b>Project Total</b>	2,000	25,000				27,000	
<b>A-000572</b>	<b>DRAINAGE CAPACITY - IAH</b>							
	AIF				10,000		10,000	
	<b>Project Total</b>				10,000		10,000	
<b>A-000573</b>	<b>Perimeter Security Intrusion Detection S</b>							
	AIF			50	450		500	
	<b>Project Total</b>			50	450		500	
<b>A-000576</b>	<b>Modify N Electrical Vault and Misc. Elec</b>							
	AIF				11,750		11,750	
	<b>Project Total</b>				11,750		11,750	
<b>A-000577</b>	<b>NEW ELECTRICAL VAULT AT AOA - EFD</b>							
	AIF				2,750		2,750	
	<b>Project Total</b>				2,750		2,750	
<b>A-000579</b>	<b>Grass Island Paving - EFD</b>							
	AIF		150				150	
	<b>Project Total</b>		150				150	
<b>A-000580</b>	<b>Hobby Drainage &amp; Roadway Flooding - HOU</b>							
	AIF				350		350	
	<b>Project Total</b>				350		350	
<b>A-000590</b>	<b>Rehabilitate and Expand ARFF Station-HAS</b>							
	AIF	350	3,500				3,850	
	<b>Project Total</b>	350	3,500				3,850	

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**2015-2019 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

CIP No.	Project						2015-2019	
		2015	2016	2017	2018	2019		
<b>A-000594</b>	<b>PARKING TECHNOLOGY</b>							
	AIF		3,000					3,000
	<b>Project Total</b>		3,000					3,000
<b>A-000596</b>	<b>HAS MULTI-USE COMPLEX</b>							
	AIF	2,000	60,000					62,000
	<b>Project Total</b>	2,000	60,000					62,000
<b>A-000598</b>	<b>Term C SoApron Lighting Pole Replacement</b>							
	AIF	5,000						5,000
	<b>Project Total</b>	5,000						5,000
<b>A-000600</b>	<b>PN 719 TERM D INTL FACILITY IMP &amp; ADD</b>							
	Rev Bonds/Com Paper	100,000		200,000		225,000		525,000
	<b>Project Total</b>	100,000		200,000		225,000		525,000
<b>A-000601</b>	<b>PN720 HOU InternIFacility-LeaseAgrmnt.01</b>							
	AIF	20,000						20,000
	<b>Project Total</b>	20,000						20,000
<b>A-000602</b>	<b>ON CALL PLANNING SERVICES</b>							
	AIF	2,000	2,000	2,000	2,000	2,000		10,000
	<b>Project Total</b>	2,000	2,000	2,000	2,000	2,000		10,000
<b>A-000605</b>	<b>Parking Garage Term C D &amp; E</b>							
	AIF	150	1,350					1,500
	<b>Project Total</b>	150	1,350					1,500
<b>A-000606</b>	<b>Terminal A Ticket Level Noise Reduction</b>							
	AIF	1,800						1,800
	<b>Project Total</b>	1,800						1,800

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CIP No.	Project						2015-2019	
		2015	2016	2017	2018	2019		
<b>A-000607</b>	<b>Term A/B Garage-PublicParking Imprvmt</b>							
	AIF	550	4,950					5,500
	<b>Project Total</b>	550	4,950					5,500
<b>A-000608</b>	<b>Security Fence Replacement</b>							
	AIF	1,150	10,350					11,500
	<b>Project Total</b>	1,150	10,350					11,500
<b>A-000610</b>	<b>Cell Phone Lots on JFK &amp; Will Clayton</b>							
	AIF	2,500						2,500
	<b>Project Total</b>	2,500						2,500
<b>A-000612</b>	<b>TERM C 480-VOLT DISTRIBUTION SYSTEM (CO</b>							
	AIF	2,000	18,000					20,000
	<b>Project Total</b>	2,000	18,000					20,000
<b>A-000613</b>	<b>SecurityEnhancemntsAOAperimeterFenceLine</b>							
	AIF	900						900
	<b>Project Total</b>	900						900
<b>A-000614</b>	<b>SatelliteCntrlUtilities-CUP Facility-HOU</b>							
	Rev Bonds/Com Paper					7,500		7,500
	<b>Project Total</b>					7,500		7,500
<b>A-000615</b>	<b>Cargo Ramp &amp; Taxi Lane</b>							
	AIF	300	2,700					3,000
	<b>Project Total</b>	300	2,700					3,000
<b>A-000616</b>	<b>Install Category IIIA ILS</b>							
	AIF		645	5,805				6,450
	<b>Project Total</b>		645	5,805				6,450

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CIP No.	Project						2015-2019	
		2015	2016	2017	2018	2019		
<b>A-000617</b>	<b>Extend Runway 17R-35L</b>							
	AIF					545		545
	<b>Project Total</b>					545		545
<b>A-000618</b>	<b>R/W 17R-35L IMPROVEMENTS-ASPHALT SHOU</b>							
	AIF					1,745		1,745
	<b>Project Total</b>					1,745		1,745
<b>A-000619</b>	<b>Rehabilitation of Airfield Service Road</b>							
	AIF			547				547
	<b>Project Total</b>			547				547
<b>A-000620</b>	<b>T-Hanger Ramp &amp; Taxiway D Pavement</b>							
	AIF			859				859
	<b>Project Total</b>			859				859
<b>A-000621</b>	<b>Public Addressing (PA) System</b>							
	AIF			4,700				4,700
	<b>Project Total</b>			4,700				4,700
<b>A-000622</b>	<b>Reworking Constr Taxiway WA/WB</b>							
	AIF			30,000				30,000
	<b>Project Total</b>			30,000				30,000
<b>A-000623</b>	<b>DEMOLITION OF TOWER @ IAH (REIMB by FAA</b>							
	FAA/AIP			300	1,400			1,700
	<b>Project Total</b>			300	1,400			1,700
<b>A-000624</b>	<b>TERM B CORE &amp; NO 480-VOLT DISTRIB SYS</b>							
	AIF			20,000				20,000
	<b>Project Total</b>			20,000				20,000

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CIP No.	Project						2015-2019	
		2015	2016	2017	2018	2019		
<b>A-000625</b>	<b>IAH FLEET MAINTENANCE BUILDING</b>							
	AIF	4,371					4,371	
	<b>Project Total</b>	<b>4,371</b>					<b>4,371</b>	
<b>A-000626</b>	<b>TERM-A NO &amp; SO RESTROOM REMODEL</b>							
	AIF	500	4,500				5,000	
	<b>Project Total</b>	<b>500</b>	<b>4,500</b>				<b>5,000</b>	
<b>A-000627</b>	<b>TERMINAL D TICKET COUNTER REFRESH</b>							
	AIF	3,000					3,000	
	<b>Project Total</b>	<b>3,000</b>					<b>3,000</b>	
<b>A-000628</b>	<b>SECURITY LANE BACKFLOW PREVENTION</b>							
	AIF	900					900	
	<b>Project Total</b>	<b>900</b>					<b>900</b>	
<b>A-000629</b>	<b>EFO SELF-FUELING SYS (EQUIP PURCHASE)</b>							
	AIF	295					295	
	<b>Project Total</b>	<b>295</b>					<b>295</b>	
<b>A-000630</b>	<b>HOBBY PARKING OFFICE</b>							
	AIF	390					390	
	<b>Project Total</b>	<b>390</b>					<b>390</b>	
	<b>Total Appropriations:</b>	<b>277,111</b>	<b>220,481</b>	<b>306,336</b>	<b>131,400</b>	<b>281,628</b>	<b>1,216,956</b>	